S760, S770, S780, S785, S790 and HillMaster™ Combines

(Serial No. 115000 -)

JOHN DEERE

OPERATOR'S MANUAL

S760, S770, S780, S785, S790 and HillMaster™ Combines

OMZ201545 ISSUE I8 (ENGLISH)

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

John Deere GmbH & Co. KG
John Deere Werke Zweibrücken
New-Zealand/Australian Edition
PRINTED IN U.S.A.

Introduction

Foreword

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages (see your John Deere dealer to order).

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing the direction of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I. N.) in the Specification or Identification Numbers section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

SETTING FUEL DELIVERY BEYOND PUBLISHED factory specifications or otherwise overpowering will result in loss of warranty protection for this machine.

BEFORE DELIVERING THIS MACHINE, your dealer performed a predelivery inspection. After operating for the first 20 to 50 hours, schedule an after-sale inspection with your dealer to ensure best performance.

THIS COMBINE IS DESIGNED SOLELY for use in customary agricultural or similar operations ("INTENDED USE"). Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

THIS COMBINE SHOULD BE OPERATED, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times. Any arbitrary modifications carried out on this combine will relieve the manufacturer of all liability for any resulting damage or injury.

REGISTER USED PRODUCTS. If you purchased used John Deere products from an authorized John Deere dealer, the warranty registration information was updated by the dealer and requires no further information on your part.

If you purchased any used John Deere product from an auction, through a trader or from a farmer, please register it now. John Deere and John Deere dealers value their customer's safety and satisfaction. Your local John Deere dealer is best equipped and anxious to provide you superior levels of support for your machine. Please enter your product details and your address online, using the John Deere website corresponding to your country. Then select the dealer of your choice and you will receive a voucher for a discount towards a qualifying purchase of John Deere parts.

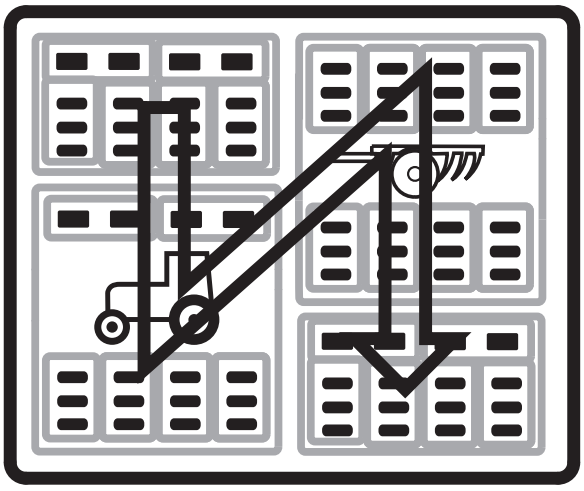
OUO6075,000174F-19-31JAN14

A Message to Our Customers

We appreciate the confidence placed in us by the purchase of this machine. To ensure that the machine performs at the highest level, countless hours were spent designing and testing, before this machine was produced. To achieve the maximum performance, it is imperative that this machine is operated in accordance with the procedures outlined in this manual.

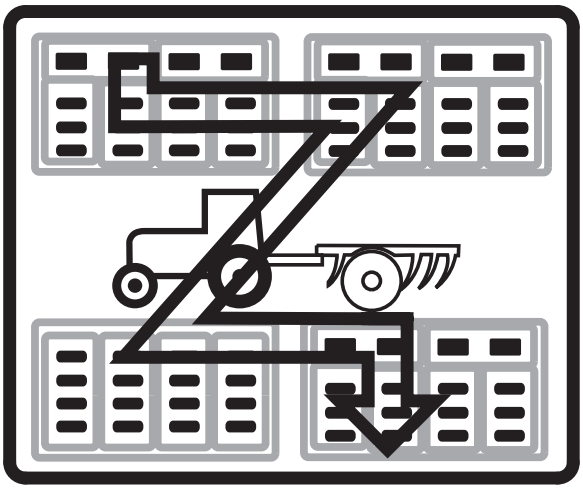
Information in this manual is divided into sections. The section names are identified in the table of contents and at the top of each page. Each section has a unique number and page count. Specific information within each section is organized into topics identified with bold headings.

The topic headings are listed in the table of contents with the section number and page number where the topic begins. Topics and information related to each topic are also referenced in the index along with the section and page number.



A100767—UN—07JUN18

The topic content flows down the left-hand side, then over and down the right-hand side, and repeats on the next page. Images precede the related text in the flow.



A100768—UN—07JUN18

The flow can divide both before and after the images and tables that span the width of a page.

Review this manual often to learn where to look for information.

Thanks again for purchasing this machine.

OUO6075,00049D4-19-08JUN18

Emissions Performance and Tampering

Operation and Maintenance

The engine, including the emissions control system, shall be operated, used, and maintained in accordance with the instructions provided in this manual to maintain the emissions performance of the engine within the requirements applicable to the engine's category/ certification.

Tampering

No deliberate tampering with or misuse of the engine emissions control system shall take place; in particular with regard to deactivating or not maintaining an exhaust gas recirculation (EGR) or a DEF dosing system. Tampering with an engine’s emissions control system will void the European Union (EU) type approval and applicable emissions-related warranties.

DX,EMISSIONS,PERFORM-19-12JAN18

Identification View



H115702—UN—31AUG15
OUO6075,000413D-19-31AUG15

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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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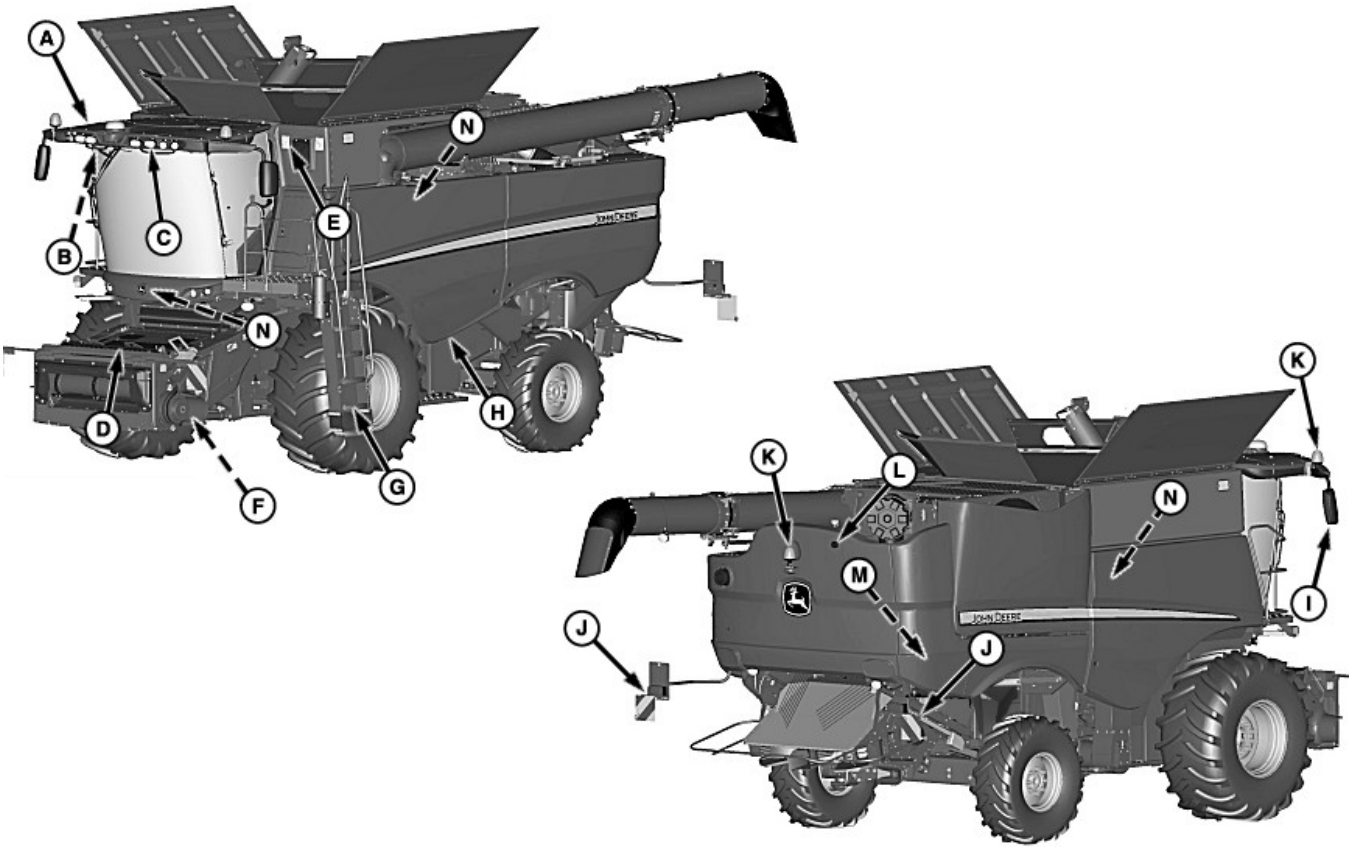
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Machine Safety Features



H115704—UN—31AUG15

Front View/Rear View Safety Features

A—Cab Safety Features: Operator's Presence System, Electronic Engine Start Lockout, Seat Belts, Horn, Emergency Exit Window, Park Brake, Turn Signals
B—Handholds
C—Headlights
D—Slip Resistant Skid Mats
E—Safety Signs
F—Mechanical Safety Stop (Feeder House)
G—Slip Resistant Steps and Platform with Handrails
H—Shields
I—Rear View Mirrors
J—Warning Lights and Reflective Tape
K—Beacon Lights
L—Back-Up Alarm
M—Slip Resistant Service Platform with Handrails
N—Rotational Alarm Safety Features: Discharge Light, Stubble Lights, Gullwing Service Lights

In addition to the safety features shown here, other components and systems, safety lights on the machine, and safety messages and instructions in the operator's manual contribute to the safe operation of this machine when combined with the care and concern of a capable operator.

OUO6075,000413E-19-31AUG15

Recognize Safety Information



T81389—UN—28JUN13

This is a safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

DX,ALERT-19-29SEP98

Understand Signal Words



TS187—19—30SEP88

DANGER; The signal word DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

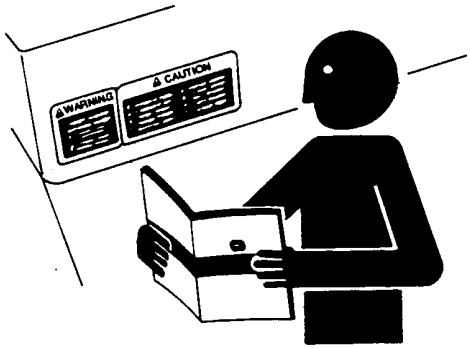
WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION; The signal word CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. CAUTION may also be used to alert against unsafe practices associated with events which could lead to personal injury.

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards. DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

DX,SIGNAL-19-05OCT16

Follow Safety Instructions



TS201—UN—15APR13

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

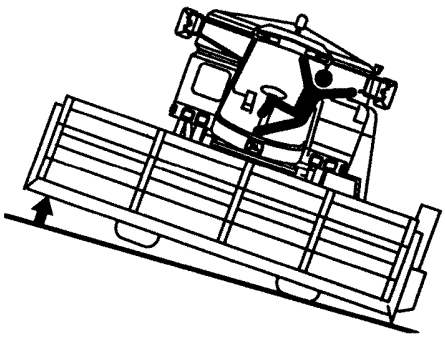
Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.

DX,READ-19-16JUN09

Driving the Machine



ZX002461

ZX002461—UN—16JUN95

Operate machine only when all guards are correctly installed.

Before moving away, always check immediate vicinity of machine (e.g. for children). Ensure adequate visibility. Use the horn as a warning immediately before moving away.

Always adapt ground speed to road or field conditions. Avoid making sharp turns when driving up or down slopes or when driving across a slope. Be especially careful when turning on slopes with full grain tank.

Follow instructions in header Operator's Manual when attaching or detaching the header.

When making turns, always take into consideration the width of the attachment and the fact that the rear end of the machine swings out. Attachments and ground conditions affect the driving characteristics of the combine.

Reduce ground speed when driving on slopes or over uneven ground and before making sharp turns. Before descending a steep hill, shift to a lower gear.

Avoid holes, ditches and obstructions which may cause the combine to tip, particularly on hillsides.

OUO6075,0000AB7-19-21FEB07

Operator Ability

- Equipment owners are responsible for ensuring that operators are responsible, trained, have read the operating instructions and warnings, and know how to operate the machine properly and safely.
- Age, physical ability, and mental capacity can be factors in equipment-related injuries. Operators must be mentally and physically capable of accessing the cab and/or controls, and operating the machine properly and safely.
- Never allow a child or an untrained person to operate the machine. Instruct all operators not to give children a ride on the machine or an attachment.
- Never operate machine when distracted, fatigued, or impaired. Proper machine operation requires your full attention and awareness.

OUO6075,0004964-19-18JUN18

Observe Road Traffic Regulations

Always observe local road traffic regulations when using public roads.

OUO6075,0000032-19-22JAN01

Check Machine Safety

Always check the road and general operating safety of the machine before using.

FX,READY-19-28FEB91

Keep Riders and Children Off Machine



TS253—UN—23AUG88

Only allow the operator on the machine. Keep riders off the machine except for periods of training or short periods of observation.

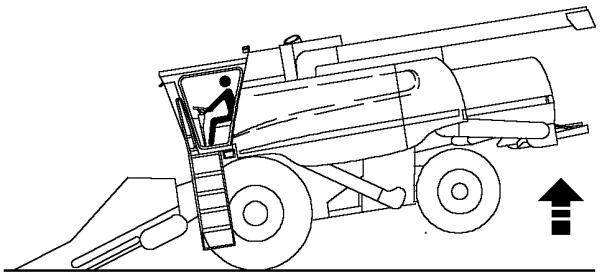
Riders are subject to injury such as being thrown off the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

Children should never be allowed on the machine or in the combine cab when the engine is running.

The instructional seat should only be used for instruction or short periods of machine observation, and not for the accommodation of children.

HX,AG,SF6904-19-22JUL99

Ballasting for Safe Ground Contact



H51907—UN—10FEB99

Operating, steering and braking performance of combine can be considerably affected by heavy front end attachments which alter the center of gravity of the combine.

To maintain the necessary ground contact, ballast the combine at the rear end as necessary.

Observe the maximum permissible axle loads and total weights.

HX,AG,SF6782-19-05FEB99

Roadway Transport with Header Attached

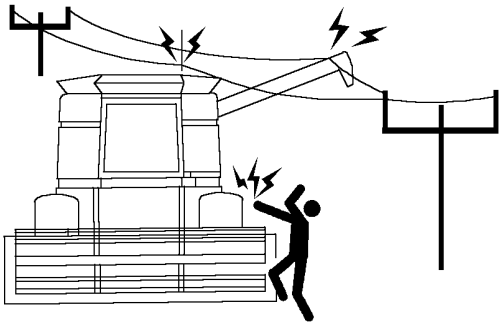
Observe national and local laws regarding operation of the combine on public roadways.

Roadway transport in Germany must be approved by your local TUEV to achieve a road permission.

Apply for allowance at your dealership or at manufacturing factory.

OUO6075,0004672-19-16MAR17

Avoid Electrical Power Lines



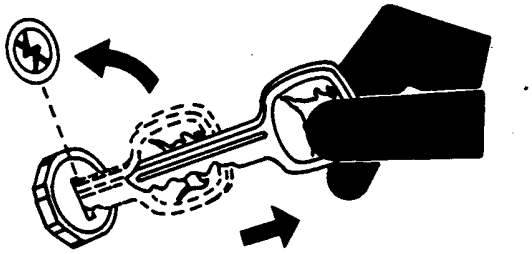
H52022—UN—14APR99

Put the grain tank unloading auger in transport position and lower the grain tank access handrail before driving on public roads.

Secure radio aerial in its transport position before driving on public roads, it may come into contact with low-hanging electrical cables. This would result in the operator suffering a severe electrical shock.

HX,STSSA,D-19-22JUL99

Parking and Leaving the Machine



TS230—UN—24MAY89

Lower harvesting unit to the ground.

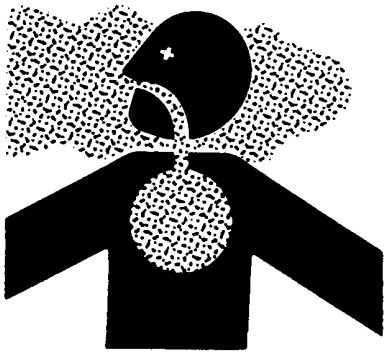
Before leaving machine, disengage harvesting unit and separator. Move multi-function lever to neutral position and shut OFF machine. Apply parking brake, remove key, and lock the operator's cab.

Never leave machine unattended as long as engine is running.

Never leave the operator's cab when driving.

OUO6075,0000AEB-19-11FEB14

Work In Ventilated Area



TS220—UN—15APR13

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.

DX,AIR-19-17FEB99

Handle Fuel Safely—Avoid Fires



TS202—UN—23AUG88

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.

Use only an approved fuel container for transporting flammable liquids.

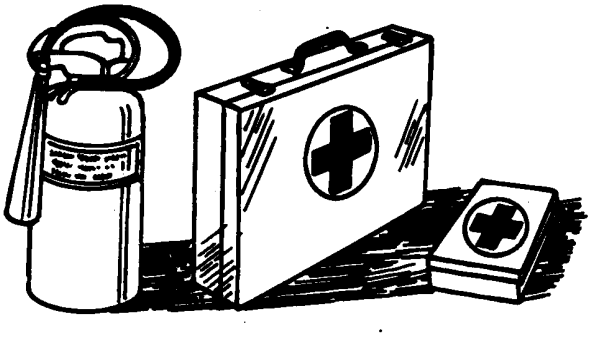
Never fill fuel container in pickup truck with plastic bed liner. Always place fuel container on ground before

refueling. Touch fuel container with fuel dispenser nozzle before removing can lid. Keep fuel dispenser nozzle in contact with fuel container inlet when filling.

Do not store fuel container where there is an open flame, spark, or pilot light such as within a water heater or other appliance.

DX,FIRE1-19-12OCT11

Prepare for Emergencies



TS291—UN—15APR13

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.

DX,FIRE2-19-03MAR93

Handle Starting Fluid Safely



TS1356—UN—18MAR92

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.

Do not use starting fluid on an engine equipped with glow plugs or an air intake heater.

DX,FIRE3-19-14MAR14

In Case of Fire



TS227—UN—15APR13

CAUTION: Avoid personal injury.

Stop machine immediately at the first sign of fire. Fire may be identified by the smell of smoke or sight of flames. Because fire grows and spreads rapidly, get off the machine immediately and move safely away from the fire. Do not return to the machine! The number one priority is safety.

Call the fire department. A portable fire extinguisher can put out a small fire or contain it until the fire department arrives; but portable extinguishers have limitations. Always put the safety of the operator and bystanders first. If attempting to extinguish a fire, keep your back to the wind with an unobstructed escape path so you can move away quickly if the fire cannot be extinguished.

Read the fire extinguisher instructions and become familiar with their location, parts, and operation before a fire starts. Local fire departments or fire equipment distributors may offer fire extinguisher training and recommendations.

If your extinguisher does not have instructions, follow these general guidelines:

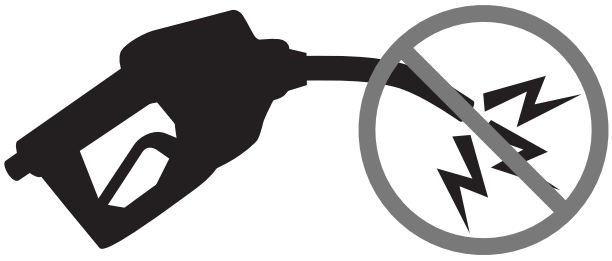
1. Pull the pin. Hold the extinguisher with the nozzle pointing away from you, and release the locking mechanism.
2. Aim low. Point the extinguisher at the base of the fire.
3. Squeeze the lever slowly and evenly.
4. Sweep the nozzle from side-to-side.

DX,FIRE4-19-22AUG13

Avoid Static Electricity Risk When Refueling



RG22142—UN—17MAR14



RG21992—UN—21AUG13

The removal of sulfur and other compounds in Ultra-Low Sulfur Diesel (ULSD) fuel decreases its conductivity and increases its ability to store a static charge.

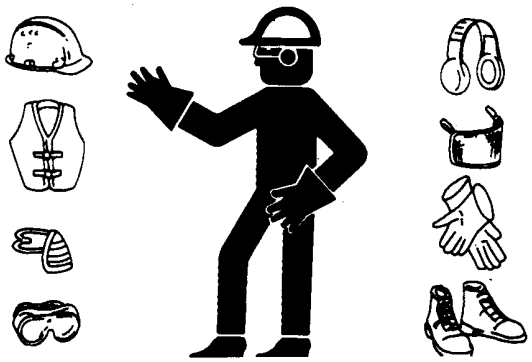
Refineries may have treated the fuel with a static dissipating additive. However, there are many factors that can reduce the effectiveness of the additive over time.

Static charges can build up in ULSD fuel while it is flowing through fuel delivery systems. Static electricity discharge when combustible vapors are present could result in a fire or explosion.

Therefore, it is important to ensure that the entire system used to refuel your machine (fuel supply tank, transfer pump, transfer hose, nozzle, and others) is properly grounded and bonded. Consult with your fuel or fuel system supplier to ensure that the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

DX,FUEL,STATIC,ELEC-19-12JUL13

Wear Protective Clothing



TS206—UN—15APR13

Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

DX,WEAR2-19-03MAR93

Stay Clear of Harvesting Units



ES118704—UN—21MAR95

Cutterbar, auger, reel and feed rolls cannot be completely shielded due to their function. Stay clear of these moving elements during operation. Always disengage main clutch, shut off engine, set parking brake and remove key before servicing or unclogging machine.

OUO6075,00009E5-19-28SEP10

Keep Hands Away From Knives



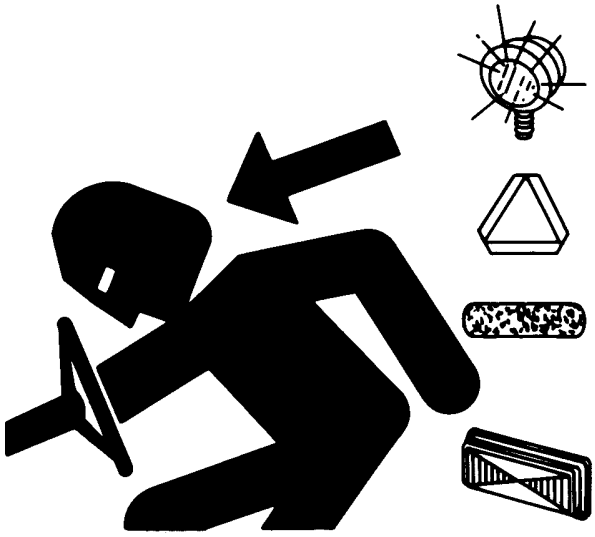
TS254—UN—23AUG88

Never attempt to clear obstructions in front of or on header unless separator is disengaged, parking brake is set, engine is shut off and key is removed.

Everyone must be clear of machine before starting engine.

OUO6075,00009E6-19-28SEP10

Use Safety Lights and Devices



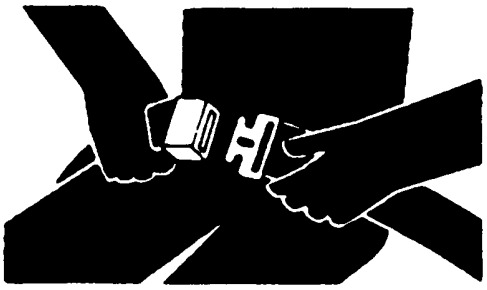
TS951—UN—12APR90

Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns and use turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible, clean and in good working order. Replace or repair lighting and marking that has been damaged or lost.

HX,STSSA,O-19-22JUL99

Use Seat Belts



H47137

H47137—UN—25OCT95

Use the seat belt whenever you operate the combine or ride as an observer.

HX,STSSA,I-19-22JUL99

Heated and Ventilated Operator's Seat



H124189—UN—11MAY18

CAUTION: An overheated seat heater can cause a burn injury or damage to the seat. To reduce the risk of burns, use caution when using the seat heater for extended periods of time, especially if the operator cannot feel temperature change or pain to the skin. Do not place objects on the seat, such as a blanket, cushion, cover, or similar item, which can cause the seat heater to overheat.

OUO6075,000496C-19-25MAY18

Instructional Seat

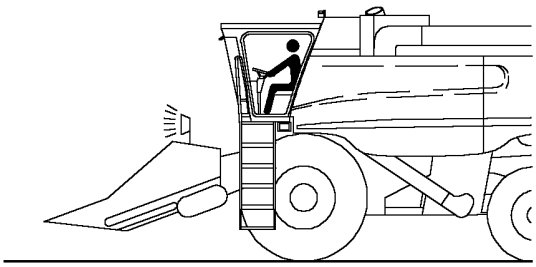


TS1730—UN—24MAY13

The instructional seat, if so equipped, has been provided only for training operators or diagnosing machine problems.

DX,SEAT,NA-19-22AUG13

Transport Combine With Header Safely



H51909—UN—07MAY99

Whenever possible avoid transporting on public roadways with the header attached.

If the combine must be transported with the header attached, make sure that the flashing warning lights on the header are operating and the reflective material is clean and visible.

The use of a spotter or pilot vehicle is recommended on busy, narrow or hilly roads and when crossing bridges.

Drive at a speed that is safe for conditions.

OUO6075,0000034-19-22JAN01

Prevent Machine Runaway or Unexpected Movement



H58737—UN—08JUL99

Avoid injury or death from unexpected movement of machine or components.

Do not start engine by shorting across starter or solenoid terminals. Machine or components may move if the normal circuitry is bypassed.

AG,OUO1035,792-19-08JUL99

Practice Safe Maintenance



TS218—UN—23AUG88

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate

controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

Falling while cleaning or working at height can cause serious injury. Use a ladder or platform to easily reach each location. Use sturdy and secure footholds and handholds.

DX,SERV-19-28FEB17

Welding Near Electronic Control Units



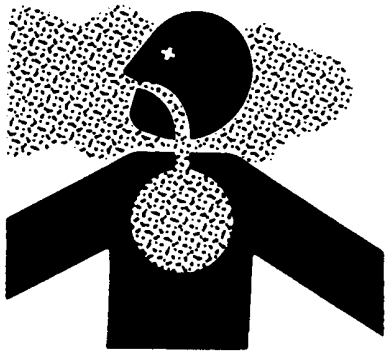
TS953—UN—15MAY90

IMPORTANT: Do not jump-start engines with arc welding equipment. Currents and voltages are too high and may cause permanent damage.

1. Disconnect the negative (-) battery cable(s).
2. Disconnect the positive (+) battery cable(s).
3. Connect the positive and negative cables together. Do not attach to vehicle frame.
4. Clear or move any wiring harness sections away from welding area.
5. Connect welder ground close to welding point and away from control units.
6. After welding, reverse Steps 1—5.

DX,WW,ECU02-19-14AUG09

Remove Paint Before Welding or Heating



TS220—UN—15APR13

Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Remove paint before heating:

- Remove paint a minimum of 100 mm (4 in.) from area to be affected by heating. If paint cannot be removed, wear an approved respirator before heating or welding.
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

Do not use a chlorinated solvent in areas where welding will take place.

Do all work in an area that is well ventilated to carry toxic fumes and dust away.

Dispose of paint and solvent properly.

DX,PAINT-19-24JUL02

Avoid Heating Near Pressurized Fluid Lines



TS953—UN—15MAY90

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to

yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can accidentally burst when heat goes beyond the immediate flame area.

DX,TORCH-19-10DEC04

Avoid Contact With Moving Parts



TS256—UN—23AUG88

Keep hands, feet and clothing away from power driven parts. Never clean, lubricate or adjust machine when it is running.

H01,9000SA,E-19-15JUN90

Cleaning Grain Tank and Removal of Blockages Safely



TS256—UN—23AUG88

Avoid serious injury or death from entanglement in the grain tank cross augers. For functional purposes the cross augers cannot be completely covered. Do not enter the grain tank when the engine is running. Before entering the tank to clean out residual grain, always shut off the engine, set parking brake and remove the key

If grain bridges and fails to flow into the cross augers, shut off the engine, remove the key and from a position on the engine compartment door use a rod, broom or shovel to break the bridge and restore grain flow.

OUO6043,00015E2-19-24MAY04

Stay Clear of Rotating Drivelines



TS1644—UN—22AUG95

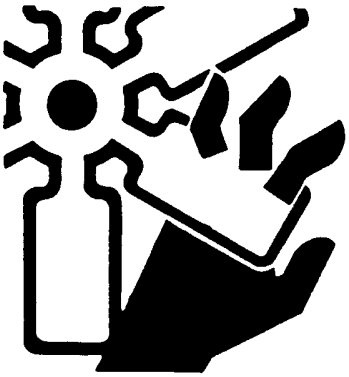
Entanglement in rotating driveline can cause serious injury or death.

Keep all shields in place at all times. Make sure rotating shields turn freely.

Wear close-fitting clothing. Stop the engine and be sure that all rotating parts and drivelines are stopped before making adjustments, connections, or performing any type of service on engine or machine driven equipment.

DX,ROTATING-19-18AUG09

Install All Shields and Guards



TS677—UN—21SEP89

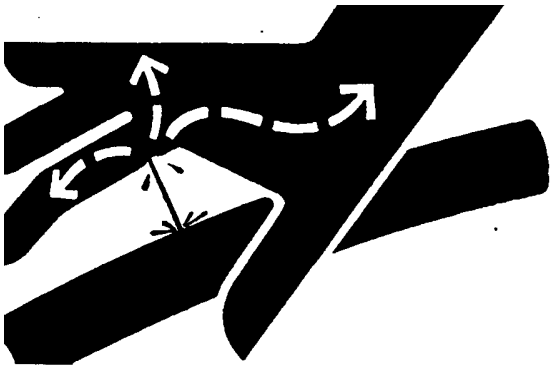
Rotating fans, belts, pulleys, and drives can cause serious injury.

Keep all shields and guards in place at all times during operation.

Wear close-fitting clothes. Stop the engine and be sure fans, belts, pulleys, and drives are stopped before making adjustments, connections, or cleaning near fans and their drive components.

OUO6075,0000C23-19-03MAY11

Avoid High-Pressure Fluids



X9811—UN—23AUG88

Inspect hydraulic hoses periodically – at least once per year – for leakage, kinking, cuts, cracks, abrasion, blisters, corrosion, exposed wire braid or any other signs of wear or damage.

Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

DX,FLUID-19-12OCT11

Do Not Open High-Pressure Fuel System



TS1343—UN—18MAR92

High-pressure fluid remaining in fuel lines can cause serious injury. Do not disconnect or attempt repair of fuel lines, sensors, or any other components between the high-pressure fuel pump and nozzles on engines with High Pressure Common Rail (HPCR) fuel system.

Only technicians familiar with this type of system can perform repairs. (See your John Deere dealer.)

DX,WW,HPCR1-19-07JAN03

Service Accumulator Systems Safely



TS281—UN—15APR13

Escaping fluid or gas from systems with pressurized accumulators that are used in air conditioning, hydraulic, and air brake systems can cause serious injury. Extreme heat can cause the accumulator to burst, and pressurized lines can be accidentally cut. Do not weld or use a torch near a pressurized accumulator or pressurized line.

Relieve pressure from the pressurized system before removing accumulator.

Relieve pressure from the hydraulic system before removing accumulator. Never attempt to relieve hydraulic system or accumulator pressure by loosening a fitting.

Accumulators cannot be repaired.

DX,WW,ACCLA2-19-22AUG03

Protect Against High Pressure Spray



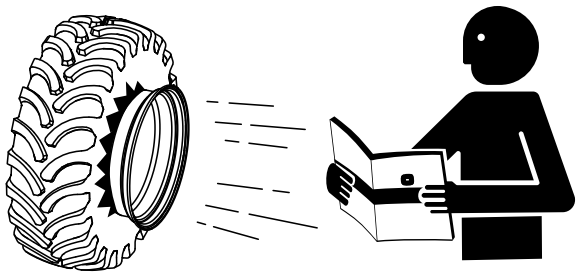
TS1343—UN—18MAR92

Spray from high pressure nozzles can penetrate the skin and cause serious injury. Keep spray from contacting hands or body.

If an accident occurs, see a doctor immediately. Any high pressure spray injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.

DX,SPRAY-19-16APR92

Follow Tire Recommendations



H111235—UN—13MAY14

Keep your machine in proper working order.

Use only prescribed tire sizes with correct ratings and inflate to the pressure specified in this manual.

Use of other than prescribed tires may decrease stability, affect steering, result in premature tire failure, or cause other durability or safety issues.

DX,TIRE,INFO-19-19MAY14

Service Tires Safely



RXA0103438—UN—11JUN09

Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

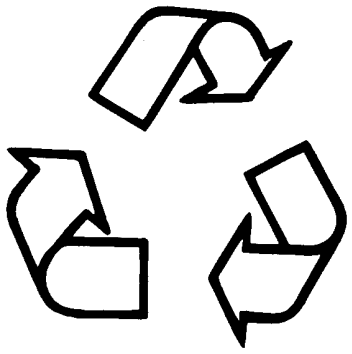
When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.

Wheels and tires are heavy. When handling wheels and tires use a safe lifting device or get an assistant to help lift, install, or remove.

DX,WW,RIMS-19-28FEB17

Decommissioning — Proper Recycling and Disposal of Fluids and Components



TS1133—UN—15APR13

Safety and environmental stewardship measures must be taken into account when decommissioning a machine and/or component. These measures include the following:

- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or glasses, during the removal or handling of objects and materials.
- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws,

regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid); filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.

- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

DX,DRAIN-19-01JUN15

Service Cooling System Safely



TS281—UN—15APR13

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine, set parking brake and remove key. Allow system to cool before opening cap. Slowly loosen cap to relieve pressure before removing completely.

OUO6075,0000ABC-19-21FEB07

Remove Accumulated Crop Debris

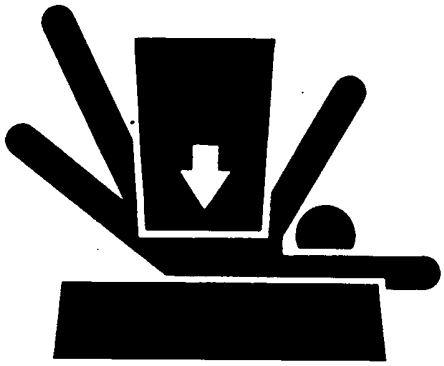


TS227—UN—15APR13

The build up of chaff and crop debris in the engine compartment, on the engine, and near moving parts is a fire hazard. Check and clean these areas frequently. Before performing any inspection or service, shut off the engine, set the parking brake and remove the key.

HX,9010SA,B-19-23AUG97

Support Machine Properly



TS229—UN—23AUG88

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. If left in a raised position, hydraulically supported devices can settle or leak down.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

When implements or attachments are used with a machine, always follow safety precautions listed in the implement or attachment operator's manual.

DX,LOWER-19-24FEB00

Store Attachments Safely



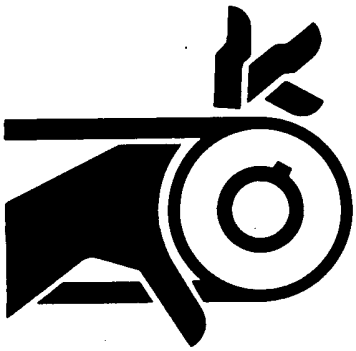
TS219—UN—23AUG88

Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.

DX,STORE-19-03MAR93

Service Drive Belts Safely



TS285—UN—23AUG88

When servicing drive belts always observe these precautions:

- Avoid serious injury from hand or arm entanglement. Never attempt to clean, check or adjust belts while the machine is running. Always shut off the engine, set the parking brake and remove the key.
- Do not attempt to clean belts with flammable cleaning solvents.

OUO6075,00026A4-19-06FEB03

Handle Electronic Components and Brackets Safely



TS249—UN—23AUG88

Falling while installing or removing electronic components mounted on equipment can cause serious injury. Use a ladder or platform to easily reach each mounting location. Use sturdy and secure footholds and handholds. Do not install or remove components in wet or icy conditions.

If installing or servicing a RTK base station on a tower or other tall structure, use a certified climber.

If installing or servicing a global positioning receiver mast used on an implement, use proper lifting techniques and wear proper protective equipment. The mast is heavy and can be awkward to handle. Two people are required when mounting locations are not accessible from the ground or from a service platform.

DX,WW,RECEIVER-19-24AUG10

Avoid Backover Accidents



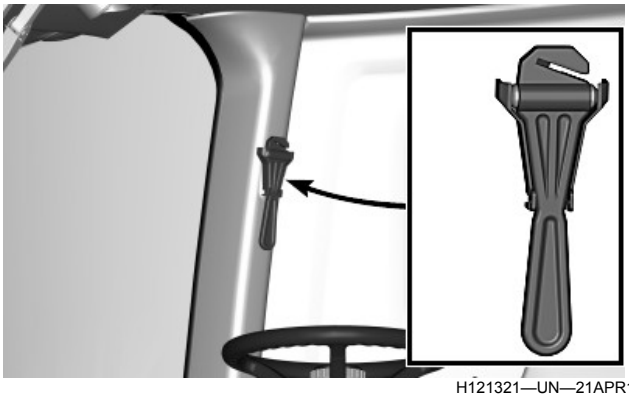
PC10857XW—UN—15APR13

Before moving machine, be sure that all persons are clear of machine path. Turn around and look directly for best visibility. Use a signal person when backing if view is obstructed or when in close quarters.

Do not rely on a camera to determine if personnel or obstacles are behind the machine. The system can be limited by many factors including maintenance practices, environmental conditions, and operating range.

DX,AVOID,BACKOVER,ACCIDENTS-19-30AUG10

Emergency Exit



H121321—UN—21APR17

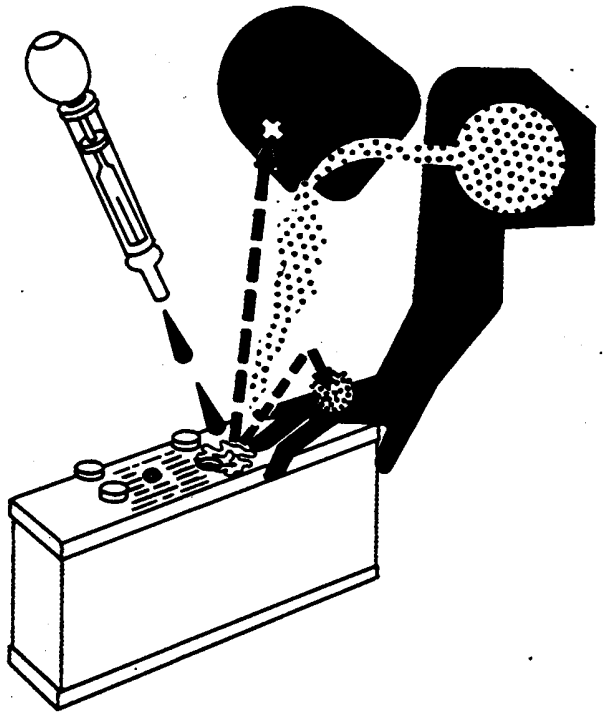
Seat belt may be cut and window glass broken with hammer to exit cab in an emergency.

OUO6075,0004722-19-21APR17

Handling Batteries Safely



TS204—UN—15APR13



TS203—UN—23AUG88

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace grounded clamp last.

Sulfuric acid in battery electrolyte is poisonous and strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid hazards by:

- Filling batteries in a well-ventilated area
- Wearing eye protection and rubber gloves
- Avoiding use of air pressure to clean batteries
- Avoiding breathing fumes when electrolyte is added
- Avoiding spilling or dripping electrolyte
- Using correct battery booster or charger procedure.

If acid is spilled on skin or in eyes:

1. Flush skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush eyes with water for 15—30 minutes. Get medical attention immediately.

If acid is swallowed:

1. Do not induce vomiting.

2. Drink large amounts of water or milk, but do not exceed 2 L (2 qt.).
3. Get medical attention immediately.

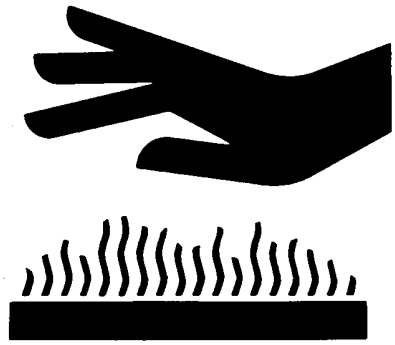
WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash hands after handling.**

DX,WW,BATTERIES-19-02DEC10

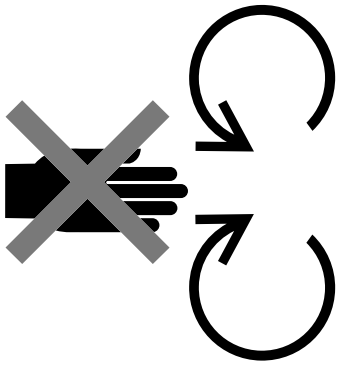
Clean Exhaust Filter Safely



TS227—UN—15APR13



TS271—UN—23AUG88



TS1693—UN—09DEC09

During exhaust filter cleaning operations, the engine may run at elevated idle and hot temperatures for an extended period of time. Exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite or melt common materials.

Keep machine away from people, animals, or structures which may be susceptible to harm or damage from hot exhaust gases or components. Avoid potential fire or explosion hazards from flammable materials and vapors near the exhaust. Keep exhaust outlet away from people and anything that can melt, burn, or explode.

Closely monitor machine and surrounding area for smoldering debris during and after exhaust filter cleaning.

Adding fuel while an engine is running can create a fire or explosion hazard. Always stop engine before refueling machine and clean up any spilled fuel.

Always make sure that engine is stopped while hauling machine on a truck or trailer.

Contact with exhaust components while still hot can result in serious personal injury.

Avoid contact with these components until cooled to safe temperatures.

If service procedure requires engine to be running:

- Only engage power-driven parts required by service procedure
- Ensure that other people are clear of operator station and machine

Keep hands, feet, and clothing away from power-driven parts.

Always disable movement (neutral), set the parking brake or mechanism and disconnect power to attachments or tools before leaving the operator's station.

Shut off engine and remove key (if equipped) before leaving the machine unattended.

OUO6075,0000E81-19-07FEB12

Avoid Hot Exhaust



RG17488—UN—21AUG09

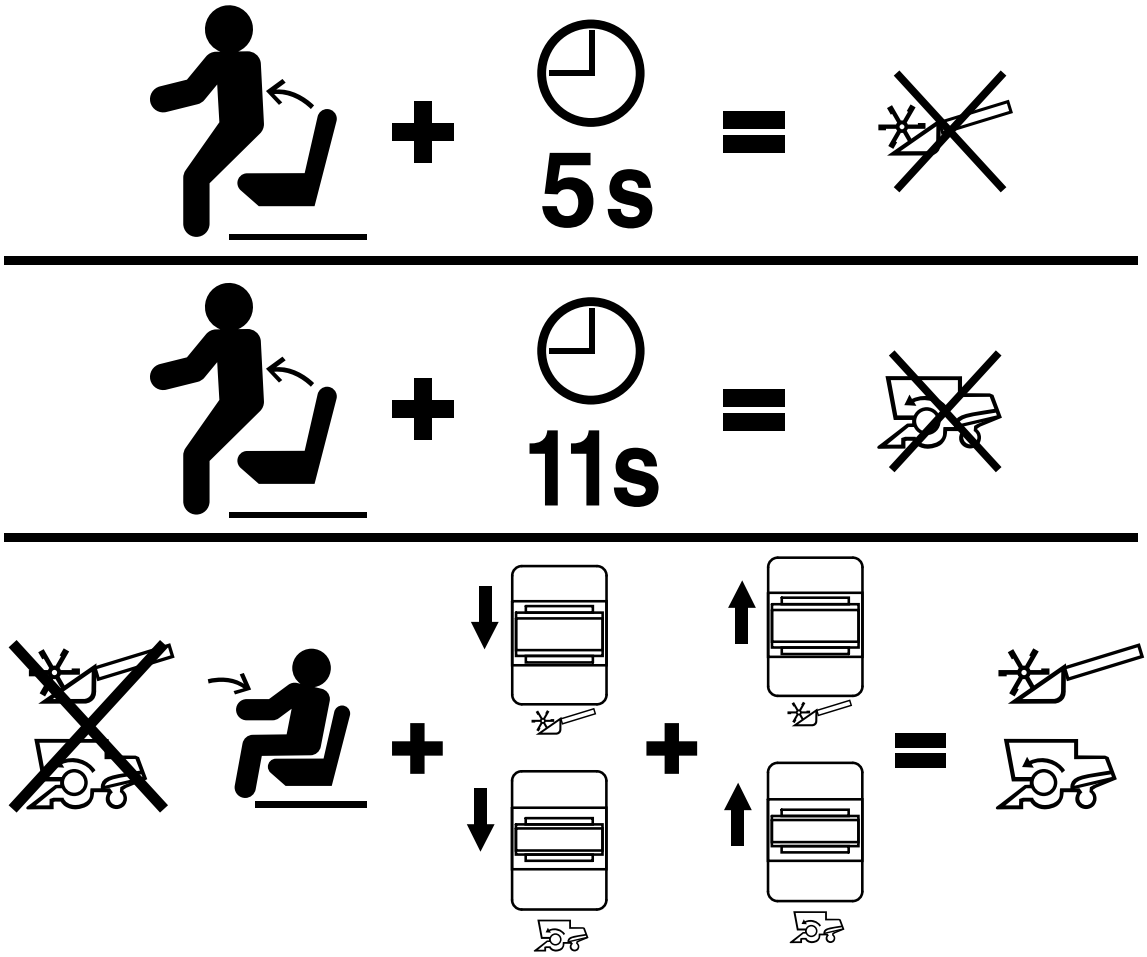
Servicing machine or attachments with engine running can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.

Exhaust parts and streams become very hot during

operation. Exhaust gases and components reach temperatures hot enough to burn people, ignite, or melt common materials.

DX,EXHAUST-19-20AUG09

Rotational Alarm System



H123205—UN—30JAN18

If operator leaves seat with header and or separator engaged, lights flash and an alarm sounds. If operator continues to be out of the seat, harvesting functions stop.

If harvesting functions are stopped, they need to be restarted before continuing to harvest.

To restart harvesting functions, operator must be in seated position and reset and engage separator and header switches on the armrest console.

OUO6075,000488B-19-30JAN18

Operator Presence System

Operator presence system indicates the presence of the operator.

System prevents engagement of the following functions when operator is not present in seat.

- Separator Engage
- Header Engage
- Unloading Auger Engage
- AutoTrac™
- Propulsion
- Feedrate
- Header Height Control

AutoTrac is a trademark of Deere & Company

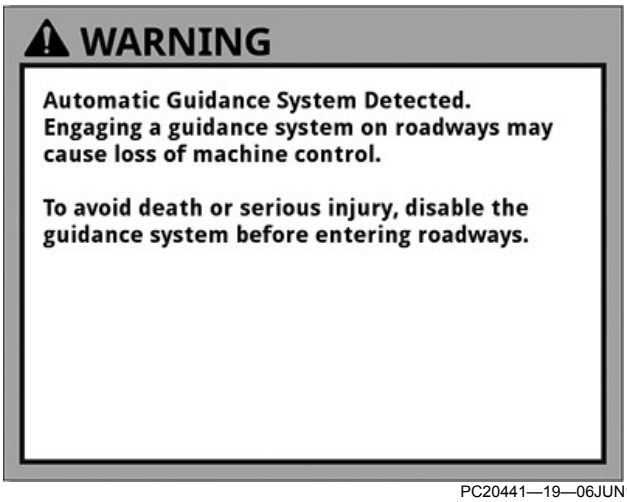
- Kemper Roading Float Mode

If operator leaves seat with header and or separator engaged for more than 12 seconds, lights flash and an alarm sounds. If operator continues to be out of the seat, harvesting functions stop.

To restart functions, operator must return to seated position and re-engage each function.

OUO6075,000488C-19-30JAN18

Safety Warning — AutoTrac™ Detected

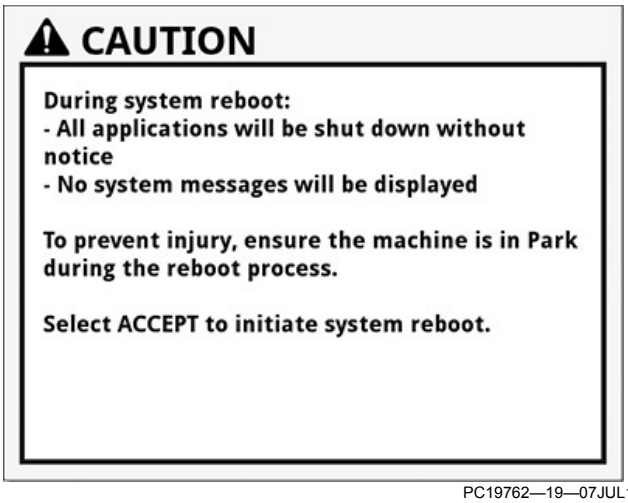


PC20441—19—06JUN18

This message occurs during startup on machines with an automatic guidance system installed.

CZ76372,0000607-19-06JUN18

Safety Caution — System Reboot

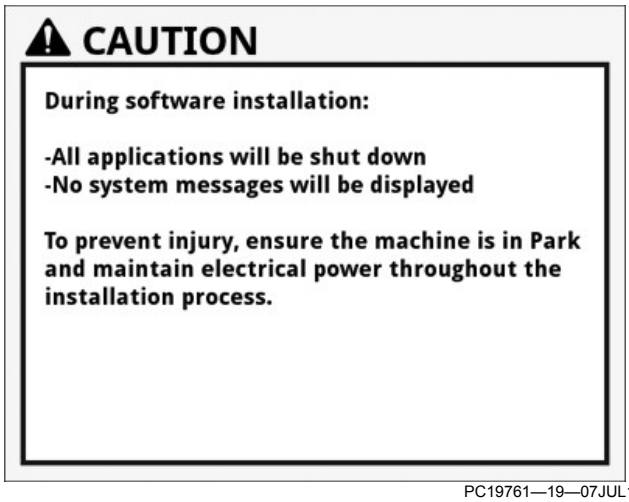


PC19762—19—07JUL14

This message occurs when the display encounters an error that requires a system reboot.

CZ76372,0000606-19-29MAY15

Safety Caution — Software Installation

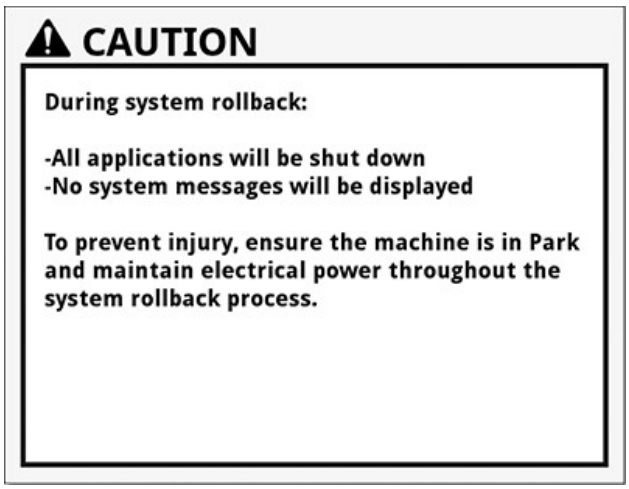


PC19761—19—07JUL14

This message occurs when a software installation is started.

CZ76372,0000605-19-19MAY15

Safety Caution — System Rollback



PC19763—19—07JUL14

NOTE: System Rollback is not available in software version 10.5.230-89 and later. In previous versions of software, this message is not displayed in Khmer and Ukrainian.

This message occurs when a system rollback is started.

HC94949,00003A9-19-25APR17

Safety Signs

Pictorial Safety Signs

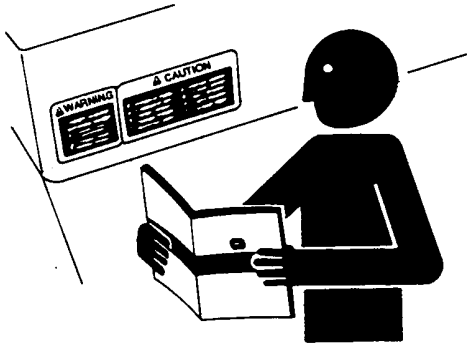


TS231—19—07OCT88

At several important places on this machine safety signs are affixed intended to signify potential hazards. The hazard is identified by a pictorial in a warning triangle. An adjacent pictorial provides information how to avoid personal injury. These safety signs, their placement on the machine and a brief explanatory text are shown below.

OUO6075,0001163-19-19JUN12

Replace Safety Signs



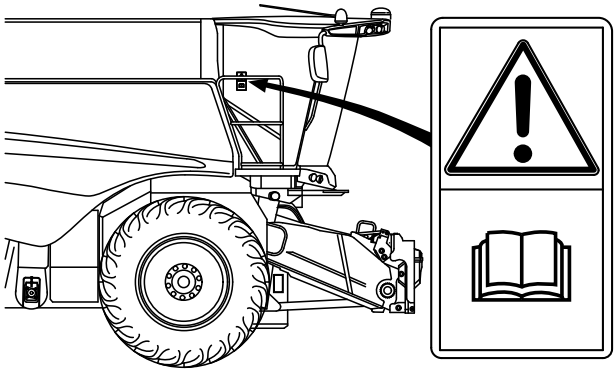
TS201—UN—15APR13

Replace missing or damaged safety signs. Use this operator's manual for correct safety sign placement.

There can be additional safety information contained on parts and components sourced from suppliers that is not reproduced in this operator's manual.

DX,SIGNS-19-18AUG09

Operator's Manual

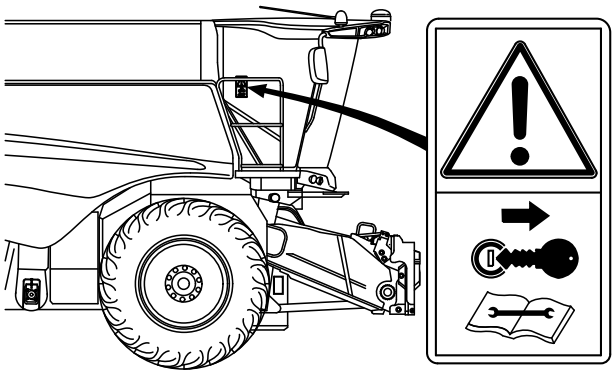


H97195—UN—14JUN11

This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.

OUO6075,00015D7-19-09AUG13

Repair and Maintenance

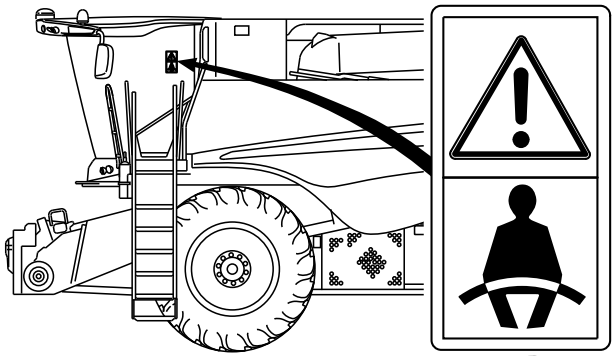


H97196—UN—13JUN11

Before carrying out repair and maintenance work, shut off engine, set parking brake and remove key. Refer to operator's manual for all maintenance work.

OUO6041,0000453-19-03SEP10

Seat Belt



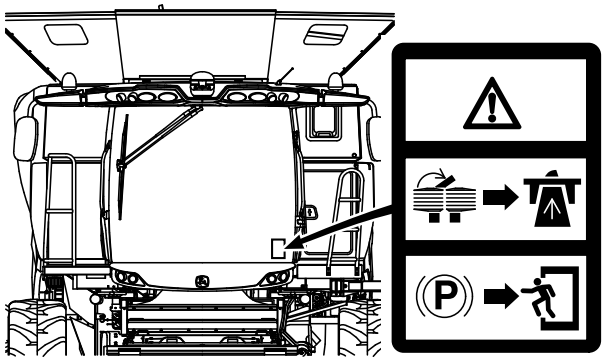
H97197—UN—13JUN11

The instructional seat is for training operators or

diagnosing machine problems. Keep all other riders and children off. Use the seat belt whenever operating the machine or riding as an observer.

OUO6041,0000454-19-03SEP10

Parking Brake



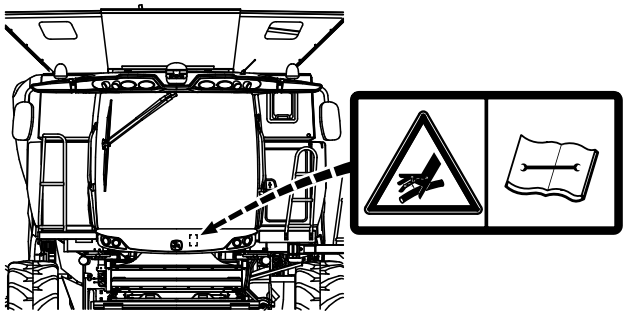
H104579—UN—25JAN12

Set parking brake before leaving machine.

Lock service brakes together before driving on roadway.

OUO6075,0000DE8-19-24JAN12

Hydraulic Oil and Gas Under Pressure



H108688—UN—01AUG13

NOTE: Decal is located on cab support and is only on ProDrive™ transmission machines.

Avoid serious injury from contact with hydraulic oil and gas under pressure.

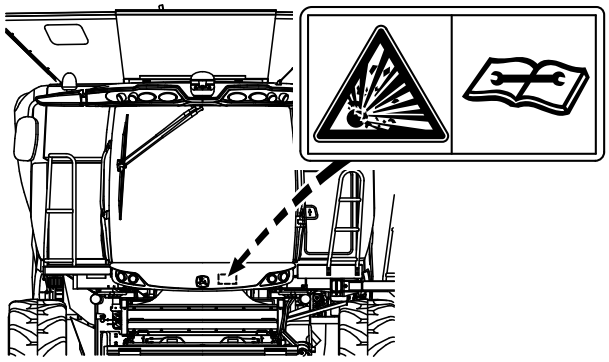
Before removing hydraulic components, disassembling or charging accumulators:

1. Relieve system hydraulic pressure. Refer to operator's manual and repair manual for system information.
2. Stop engine and remove key.

Use only DRY NITROGEN for recharging accumulator. See your local John Deere dealer.

OUO6075,00015C0-19-05AUG13

Accumulator



H105072—UN—23MAR12

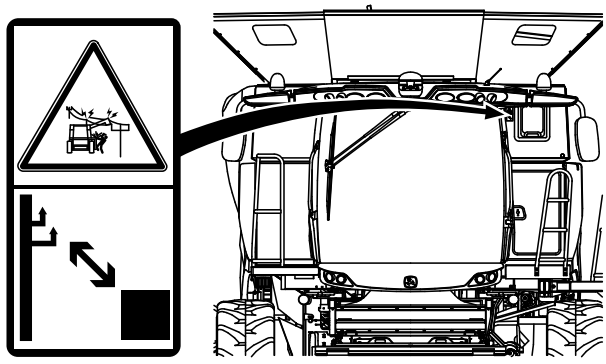
NOTE: Decal is located on cab support and is only on ProDrive™ transmission machines.

To prevent the risk of injury as well as possible damage to the accumulator or hydraulic system, maintain recommended nitrogen gas pressure.

Charge only with dry nitrogen. Rated working pressure is 21,500 kPa (3120 psi), see your John Deere dealer.

OUO6075,00010F3-19-18JUN13

Avoid Low Hanging Power Lines

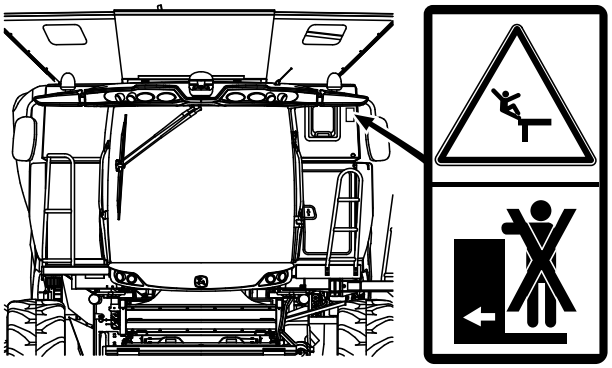


H96811—UN—03AUG10

Avoid serious injury or death from electrocution. Do not contact electric lines. Lower grain tank covers when operating near low hanging power lines.

OUO6041,00003F6-19-03SEP10

Grain Tank

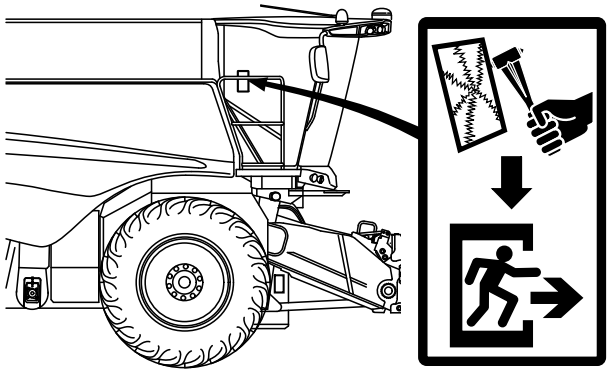


H96812—UN—02SEP10

Avoid serious injury from falling. Do not enter grain tank in this area.

OUO6041,00003F7-19-03SEP10

Emergency Exit

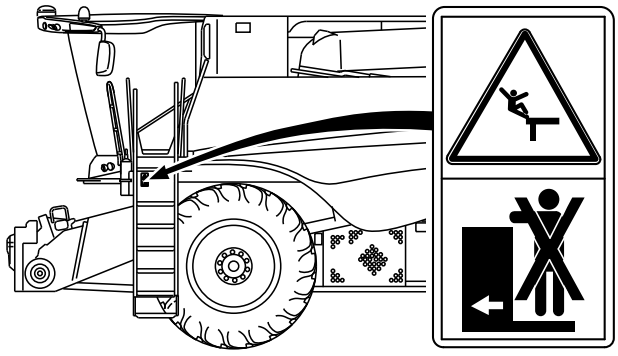


H97852—UN—13JUN11

Seat belt may be cut and window glass broken with hammer to exit cab in an emergency. See your John Deere dealer for window replacement.

WM05597,0001339-19-24JUN15

Cab/Platform Access Ladder

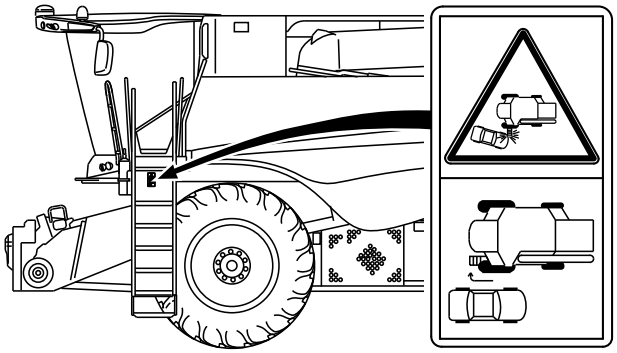


H96816—UN—03AUG10

Avoid serious injury from falling. Do not allow riders on ladder or platform area while machine is moving.

OUO6041,0000404-19-03SEP10

Avoid Motor Vehicle Collisions

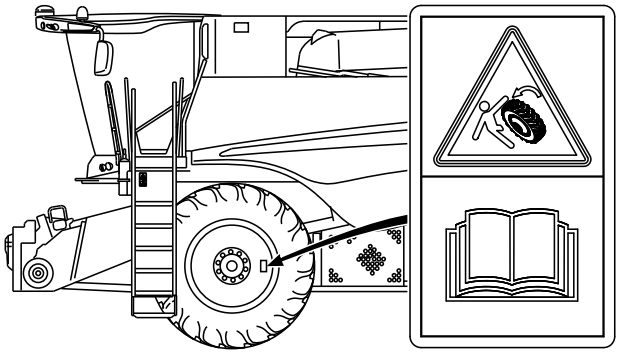


H96815—UN—03AUG10

Avoid motor vehicle collision and serious injury or death. Always swing ladder to forward locked position before driving machine on roadway.

OUO6041,0000403-19-03SEP10

Dual Wheels (If Equipped)



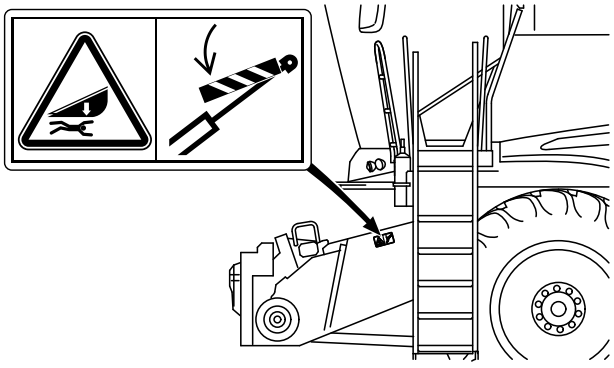
H100876—UN—04APR11

NOTE: Decal is on dual wheels and on both sides of machine.

- Dual wheels have an offset center of weight. To avoid injury, two people must install and remove wheels using pilot studs.
- Use jack to lift machine. Support machine on blocks. Install all wheel bolts before lowering machine to ground.
- See Operator's Manual

OUO6075,000494F-19-08JUN18

Feeder House Safety Stop



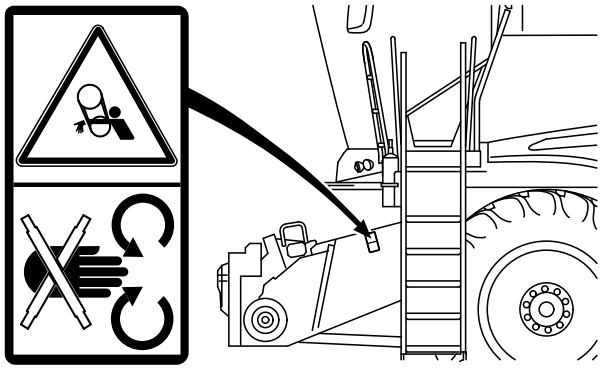
H120945—UN—21JUN17

NOTE: Decal is located on outside and inside of shielding and on both sides of feeder house.

Avoid crushing injury. Rest header on ground or set safety stop, located on feeder house lift cylinder before getting under header.

OUO6075,0004732-19-26APR17

Feeder House Guard

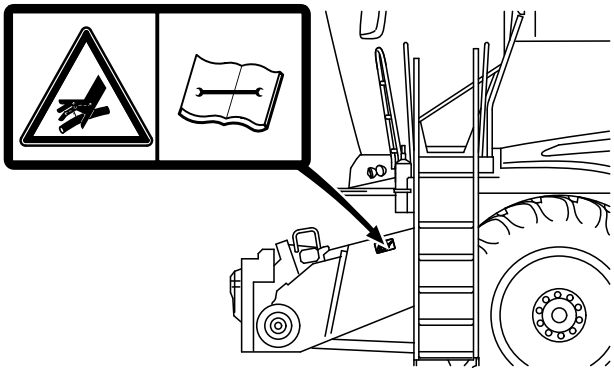


H108691—UN—08AUG13

Avoid serious injury or death from entanglement. Never raise shield with engine running. Stop engine and remove key.

OUO6075,00015C4-19-09AUG13

Hydraulic Oil and Gas Under Pressure



H108690—UN—08AUG13

Avoid serious injury from contact with hydraulic oil and gas under pressure.

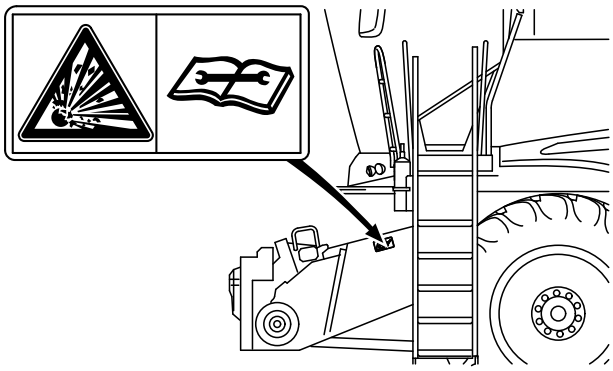
Before removing hydraulic components, disassembling or charging accumulators:

1. Relieve system hydraulic pressure. Refer to operator's manual and repair manual for system information.
2. Stop engine and remove key.

Use only DRY NITROGEN for recharging accumulator. See your local John Deere dealer.

OUO6075,00015C3-19-31JUL13

Accumulator



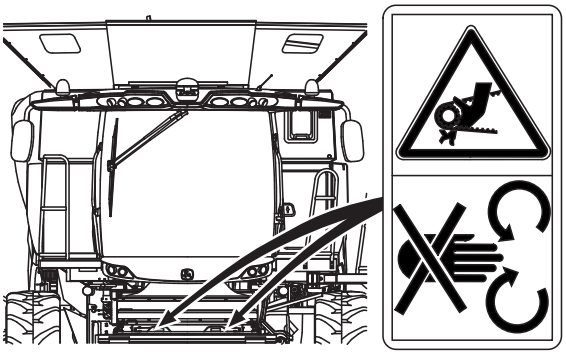
H97860—UN—03SEP10

To prevent the risk of injury as well as possible damage to the accumulator or hydraulic system, maintain recommended nitrogen gas pressure.

Charge only with dry nitrogen. Rated working pressure is 21,500 kPa (3120 psi), see your John Deere dealer.

OUO6075,000091B-19-18JUN13

Feeder House Conveyor Chain



H121143—UN—24MAR17

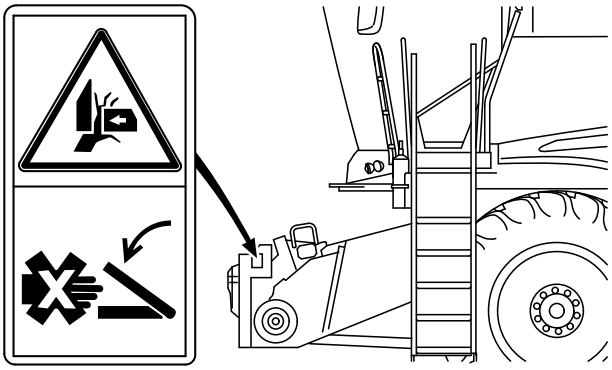
NOTE: Decal is located on feeder house access doors.

Potential hazard caused by rotating machine parts.

OUO6075,00046C5-19-18APR17

Feeder House Tilt Frame

NOTE: Decal is located on both sides of feeder house.

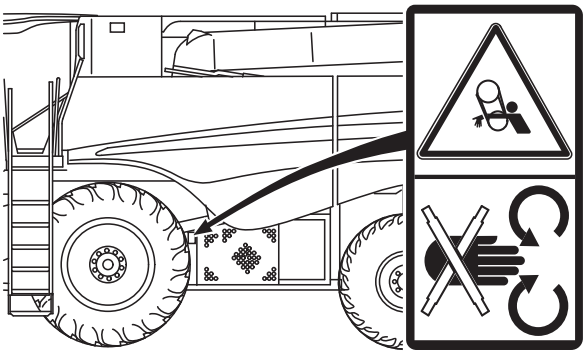


H96813—UN—03AUG10

Header can tilt causing serious injury or death. Avoid crushing injuries. Stay clear when engine is running.

OUO6041,00003F8-19-03SEP10

Left-Hand Guard

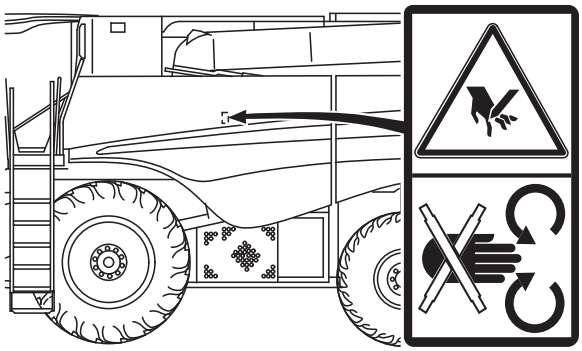


H114542—UN—17JUN15

Avoid serious injury or death from entanglement. Never raise shield with engine running. Stop engine and remove key.

WM05597,000133A-19-24JUN15

Grain Tank Cleanout Doors

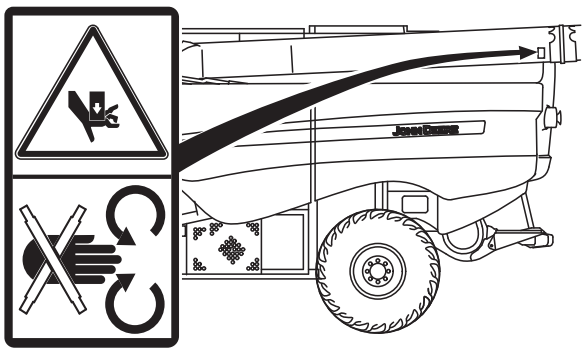


H114543—UN—17JUN15

Avoid serious injury or death from entanglement. Stop engine and remove key before opening cleanout doors.

WM05597,000133B-19-24JUN15

Powered Folding Unloading Auger (If Equipped)



H114544—UN—17JUN15

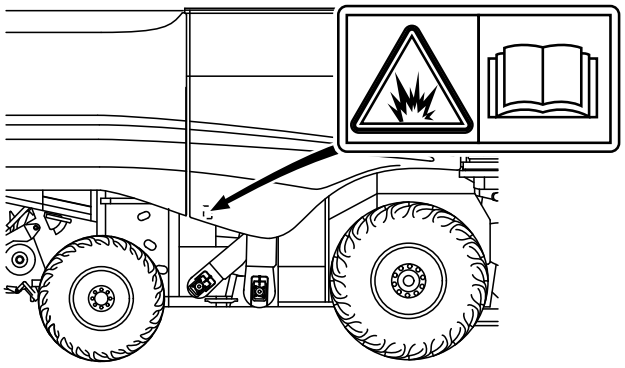
If unloading auger actuator should fail, place unloading auger lock-out pin in locked position (see Grain Tank section).

Use a ladder or equivalent with an appropriate load rating to access lock-out pin. Do not attempt to access auger from engine platform.

Avoid bodily injury from auger hinge components. Keep hands away from pinch points when actuator is removed as unintended auger movement may occur.

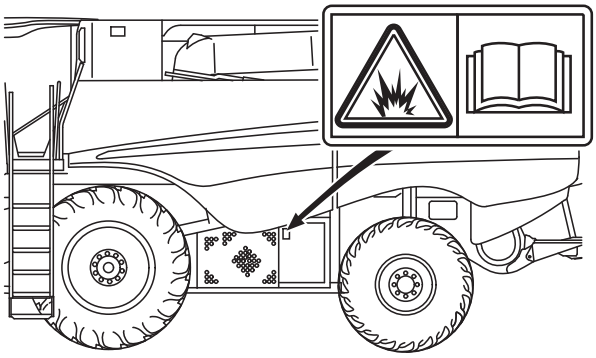
WM05597,000133C-19-24JUN15

Battery Box



H108693—UN—31JUL13

Style A



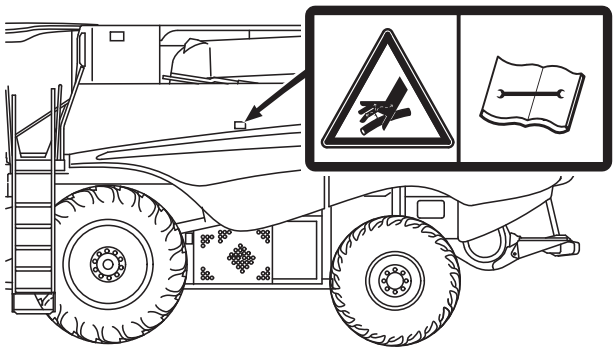
H114545—UN—17JUN15

Style B

Avoid serious injury or death from explosion. High levels of hydrogen gas can accumulate if battery box is not vented properly. Always reinstall vent tubes after performing service or maintenance on batteries or battery box.

OUO6075,0004547-19-28NOV16

Hydraulic Oil and Gas Under Pressure



H114546—UN—17JUN15

S760 and S770

Avoid serious injury from contact with hydraulic oil and gas under pressure.

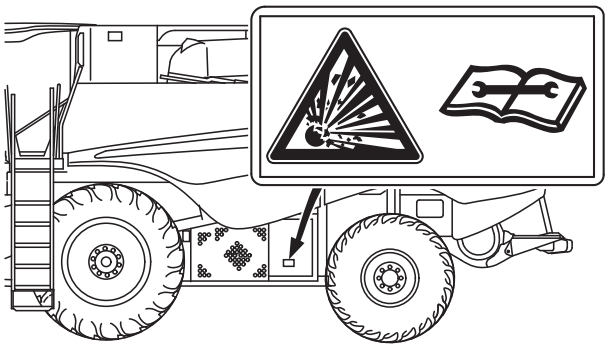
Before removing hydraulic components, disassembling or charging accumulators:

1. Relieve system hydraulic pressure. Refer to operator's manual and repair manual for system information.
2. Stop engine and remove key.

Use only DRY NITROGEN for recharging accumulator. See your local John Deere dealer.

OUO6075,0004548-19-28NOV16

Accumulator



H114547—UN—17JUN15

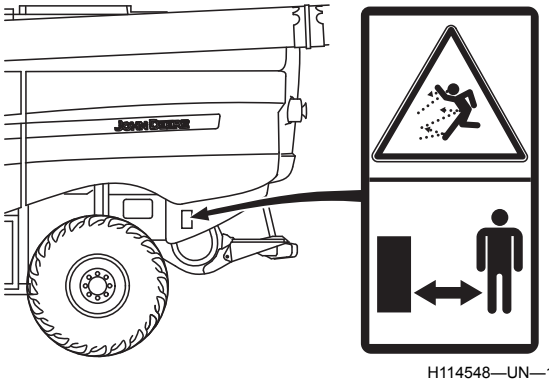
S760 and S770

To prevent the risk of injury as well as possible damage to the accumulator or hydraulic system, maintain recommended nitrogen gas pressure.

Charge only with dry nitrogen. Rated working pressure is 21 500 kPa (3120 psi), see your John Deere dealer.

OUO6075,0004549-19-28NOV16

Chopper



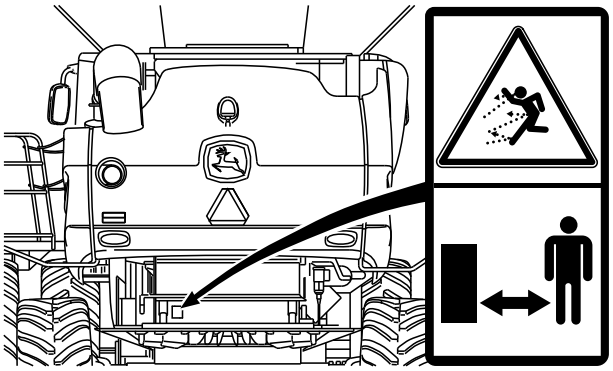
H114548—UN—17JUN15

NOTE: Decal is located on both sides of chopper.

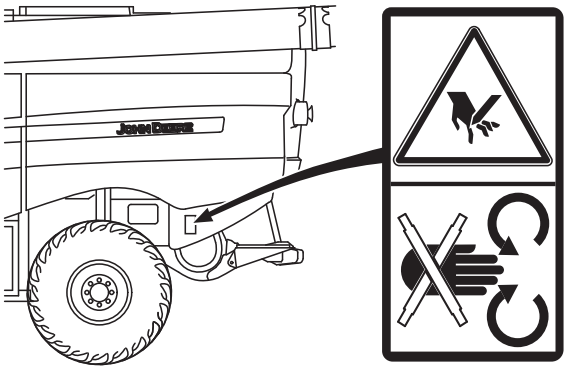
Avoid serious injury from thrown objects. Stay clear while engine is running.

OUO6075,00046C6-19-24MAR17

Chopper Continued



H108697—UN—09AUG13



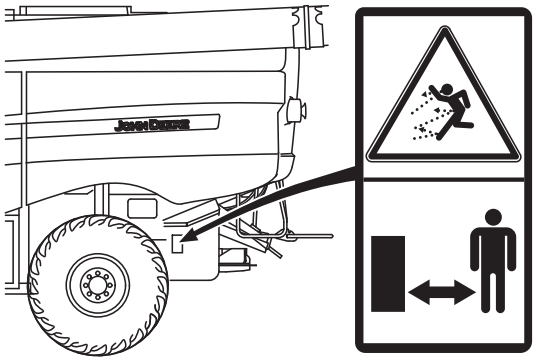
H114549—UN—17JUN15

Avoid serious injury from thrown objects. Stay clear while engine is running.

Do not touch any moving machine parts. Wait until all moving parts have stopped.

OUO6075,00046C7-19-24MAR17

Spreader



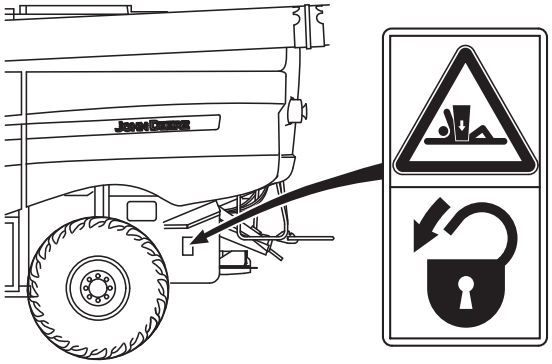
H114550—UN—17JUN15

NOTE: Decal is located on both sides of spreader.

Avoid serious injury from thrown objects. Stay clear while engine is running.

WM05597,0001341-19-24JUN15

Spreader Lock-Out



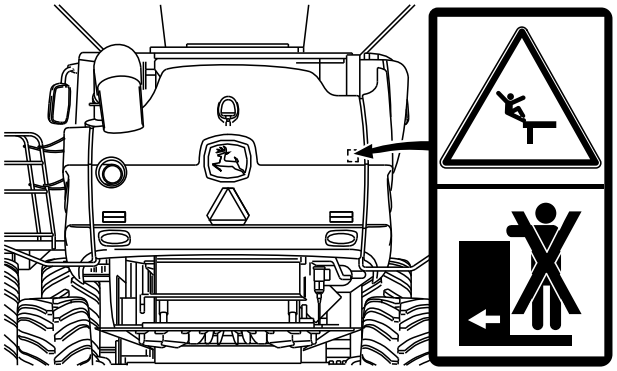
H114551—UN—17JUN15

NOTE: Decal is located on both sides of spreader.

Avoid serious injury or death from crushing. Before performing service or maintenance on raised spreader, fully insert lock-out pin into place.

WM05597,0001342-19-24JUN15

Rear Access Ladder and Service Platform

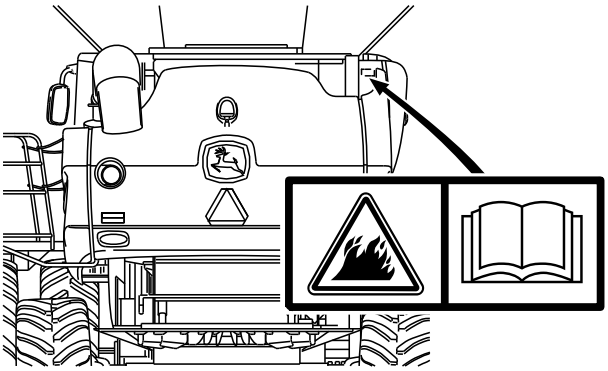


H96847—UN—04AUG10

Avoid serious injury from falling. Do not ride ladder while machine is moving.

OUO6041,00003FB-19-03SEP10

Avoid Fires

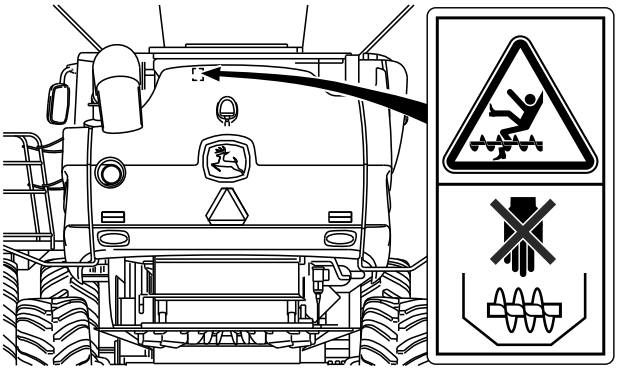


H108698—UN—08AUG13

Avoid equipment fires. The accumulation of chaff, leaves and other crop material in the engine compartment, on the engine or near moving parts can cause a fire. Inspect and clean these areas frequently.

OUO6075,00015CA-19-31JUL13

Grain Tank

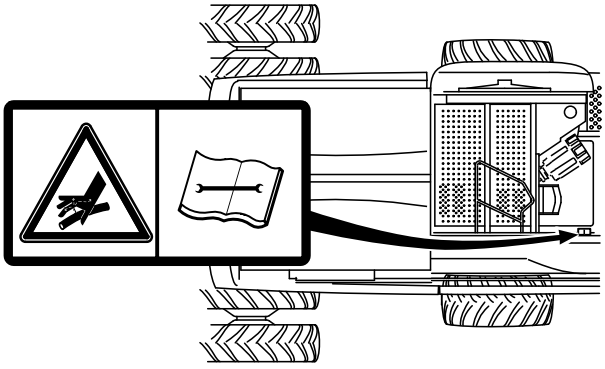


H120946—UN—21JUN17

Avoid serious injury or death from entanglement. Do not enter grain tank when engine is running.

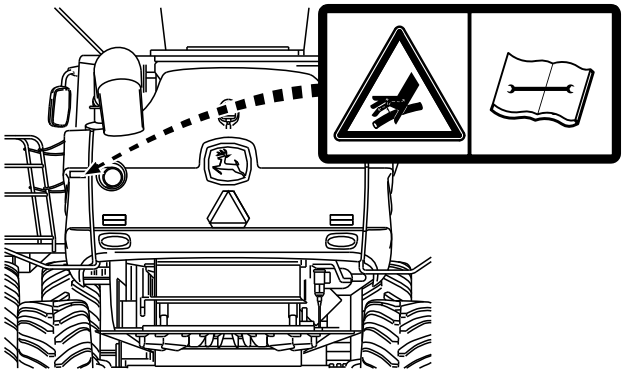
OUO6075,0004733-19-26APR17

Hydraulic Oil and Gas Under Pressure



H108703—UN—08AUG13

(Located on Hydraulic Reservoir)



H108801—UN—09AUG13

S780, S785, and S790
(Located Near Primary Control Valve)

Avoid serious injury from contact with hydraulic oil and gas under pressure.

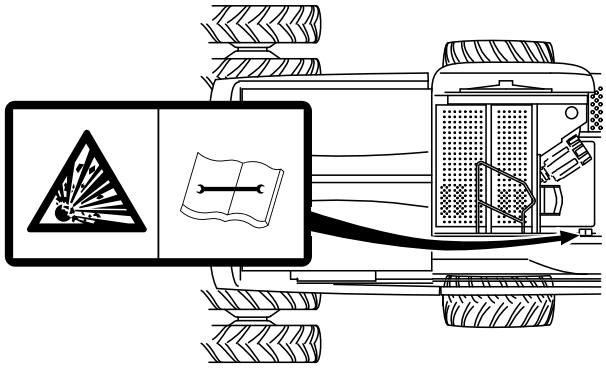
Before removing hydraulic components, disassembling or charging accumulators:

1. Relieve system hydraulic pressure. Refer to operator's manual and repair manual for system information.
2. Stop engine and remove key.

Use only DRY NITROGEN for recharging accumulator. See your local John Deere dealer.

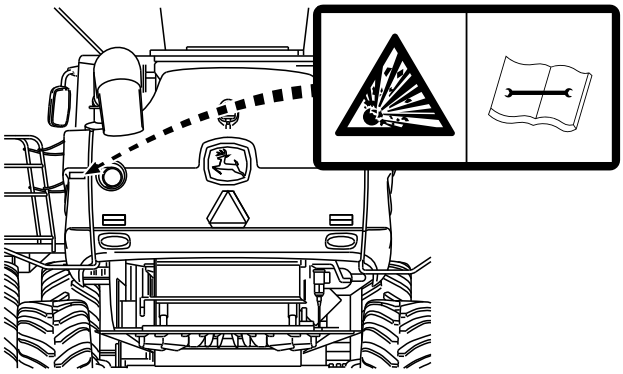
OUO6075,000454A-19-28NOV16

Accumulator



H108700—UN—08AUG13

(Located on Hydraulic Reservoir)



H108802—UN—09AUG13

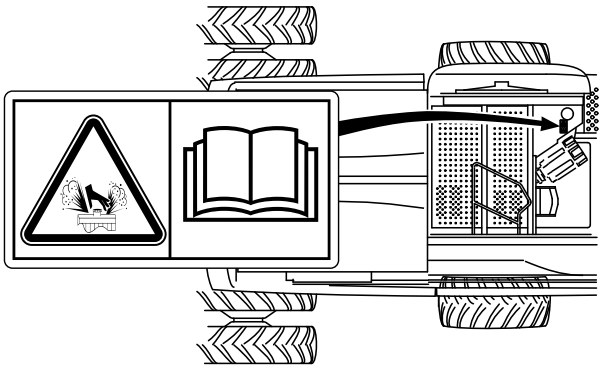
S780, S785, and S790
(Located Near Primary Control Valve)

To prevent the risk of injury as well as possible damage to the accumulator or hydraulic system, maintain recommended nitrogen gas pressure.

Charge only with dry nitrogen. Rated working pressure is 21 500 kPa (3120 psi), see your John Deere dealer.

OUO6075,000454B-19-28NOV16

Cooling System

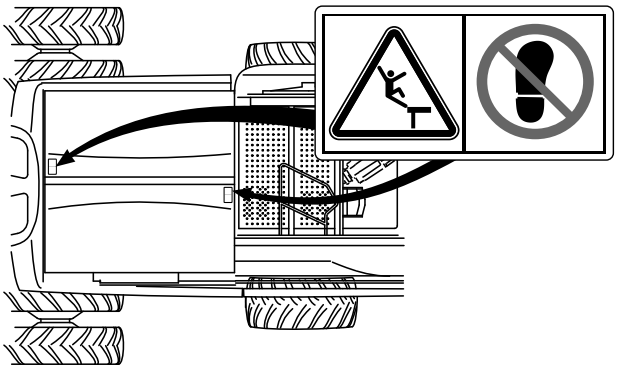


H120947—UN—21JUN17

Pressurized cooling system. To prevent burn injury due to uncontrolled release of steam and hot coolant, wait until system is cool. Loosen cap slowly. Allow pressure to release before removing cap.

OUO6075,0004734-19-26APR17

Avoid Grain Tank

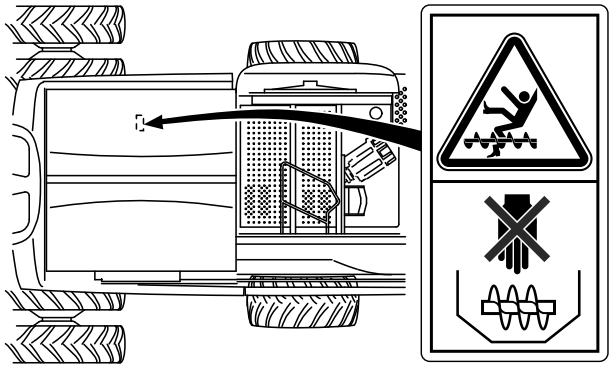


H120948—UN—22JUN17

Avoid serious injury from falling. Do not stand or walk on grain tank covers.

OUO6075,0004735-19-26APR17

Avoid Clean Grain Loading Auger

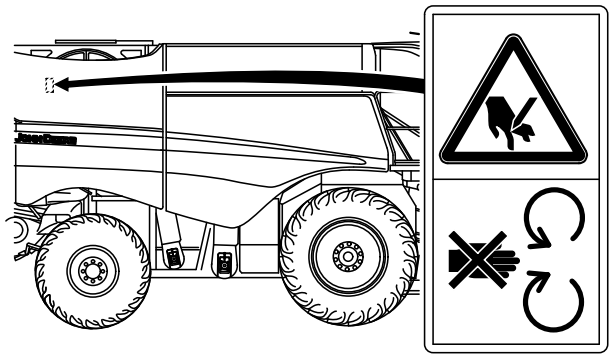


H120949—UN—22JUN17

Avoid serious injury or death from entanglement. Do not enter grain tank when engine is running.

OUO6075,0004736-19-26APR17

Rotary Screen Door and Radiator Fan



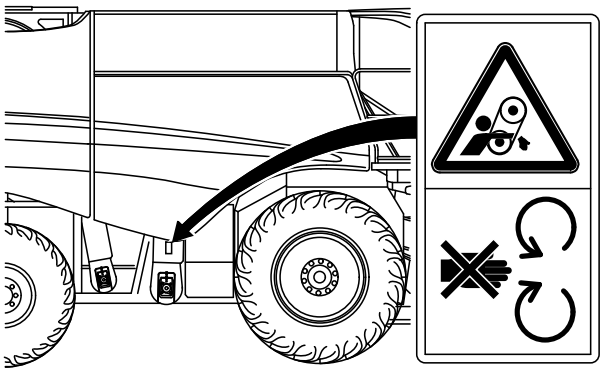
H96851—UN—05AUG10

Avoid bodily injury from rotating fan and screen

components. Shut engine off and remove key before opening rotary screen door.

OUO6041,00003FF-19-03SEP10

Clean Grain Elevator

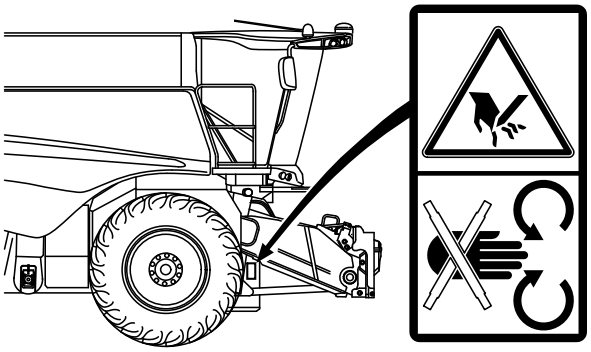


H96849—UN—01JUN11

Avoid serious injury or death from entanglement. Never raise shield with engine running. Stop engine and remove key.

OUO6041,00003FE-19-03SEP10

Stone Trap

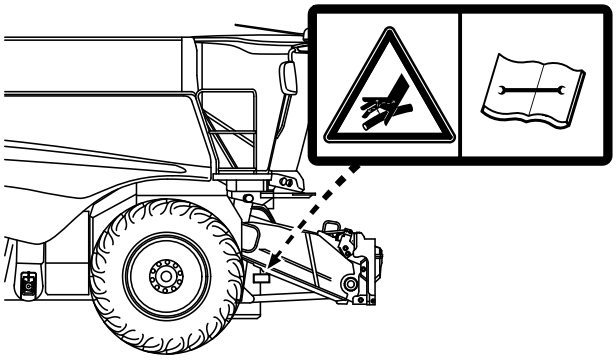


H96854—UN—05AUG10

Avoid serious injury from entanglement with feed accelerator. Feed accelerator turns when separator is engaged and will run down after separator is disengaged. Do not clean out stone trap until all separator motion has stopped.

OUO6041,0000457-19-03SEP10

Hydraulic Oil and Gas Under Pressure



H108701—UN—01AUG13

NOTE: Decal is located on stone trap door and is only on ProDrive™ transmission machines.

Avoid serious injury from contact with hydraulic oil and gas under pressure.

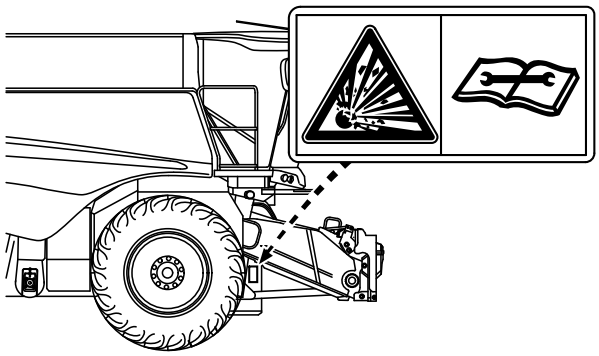
Before removing hydraulic components, disassembling or charging accumulators:

1. Relieve system hydraulic pressure. Refer to operator's manual and repair manual for system information.
2. Stop engine and remove key.

Use only DRY NITROGEN for recharging accumulator. See your local John Deere dealer.

OUO6075,00015CF-19-31JUL13

Accumulator



H97866—UN—03SEP10

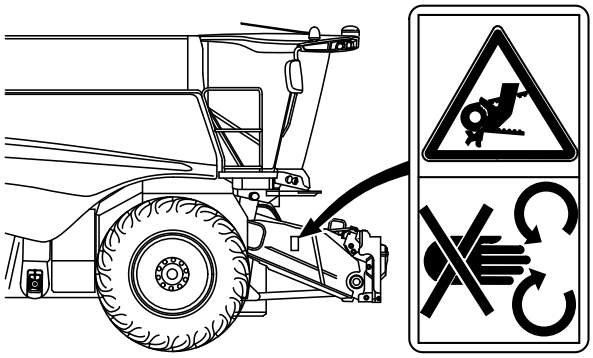
NOTE: Decal is located on stone trap door and is only on ProDrive™ transmission machines.

To prevent the risk of injury as well as possible damage to the accumulator or hydraulic system, maintain recommended nitrogen gas pressure.

Charge only with dry nitrogen. Rated working pressure is 21,500 kPa (3120 psi), see your John Deere dealer.

OUO6075,0000921-19-01JUL13

Feeder Conveyor Drive Guard



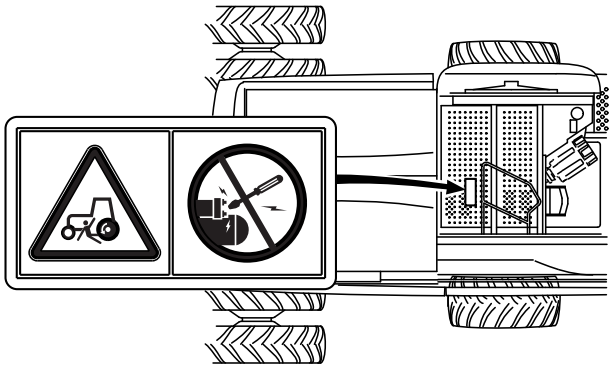
H97201—UN—05AUG10

NOTE: Decal is located on outside and inside of shielding and on both sides of feeder house.

Do not open guard when the engine is running.

OUO6041,0000458-19-03SEP10

Starter



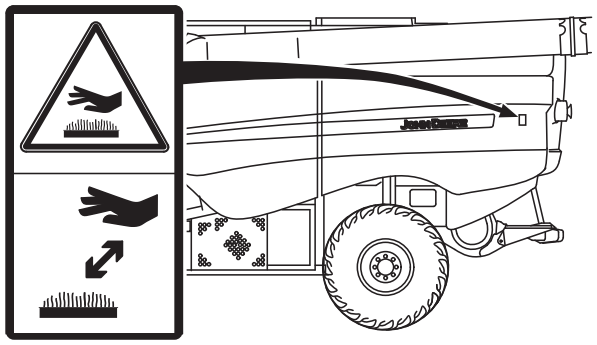
H97206—UN—05AUG10

NOTE: Decal is located on starter.

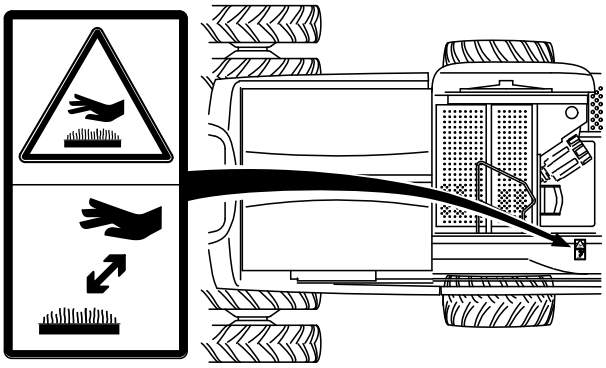
Do not start engine by shorting across starter or solenoid terminals. Machine or components may move if normal circuitry is bypassed.

OUO6075,00015D0-19-31JUL13

Exhaust Temperature (Final Tier 4/Stage V)



H114552—UN—17JUN15



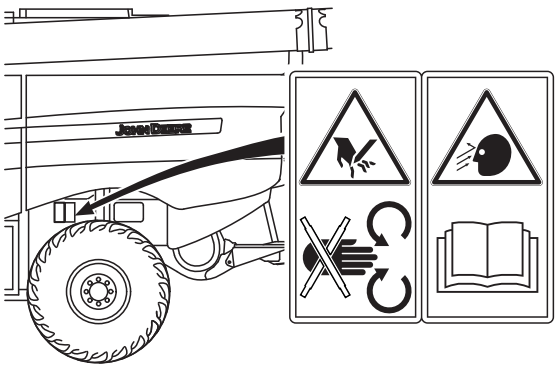
H108092—UN—06JUN13

NOTE: Decals are located on shielding surfaces (outside and on top).

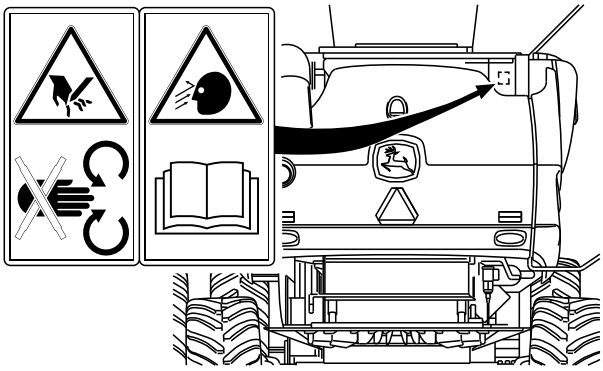
Exhaust system components may be hot. To avoid severe burns, keep away from exhaust system components.

OUO6075,00047D2-19-10NOV17

Air Compressor System (If Equipped)



H114553—UN—17JUN15



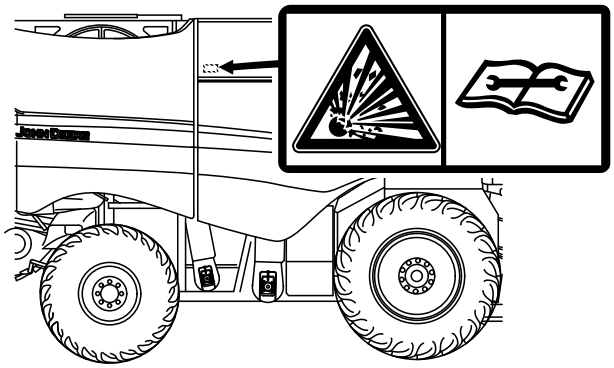
H117192—UN—11FEB16

Engine components are rotating during air compressor operation. When using the air compressor system, avoid moving components.

Air system at high pressure can dislodge debris or components. Wear protective equipment. Before servicing air system, refer to Operators Manual.

OUO6075,000424A-19-11FEB16

Air Compressor Reservoir (If Equipped)

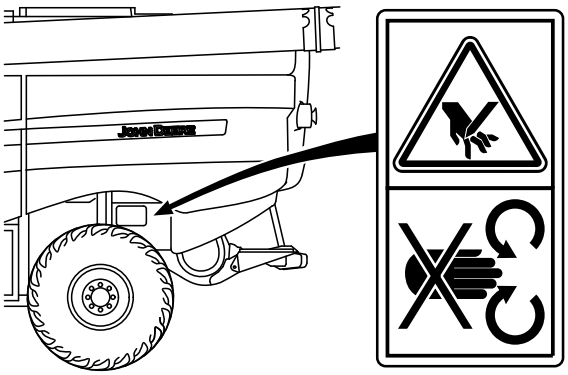


H113272—UN—24MAR15

Air reservoir at high pressure. Wear personal protective equipment, while servicing. Before servicing, relieve all system air pressure.

WM05597,0001344-19-24JUN15

Inspection Door

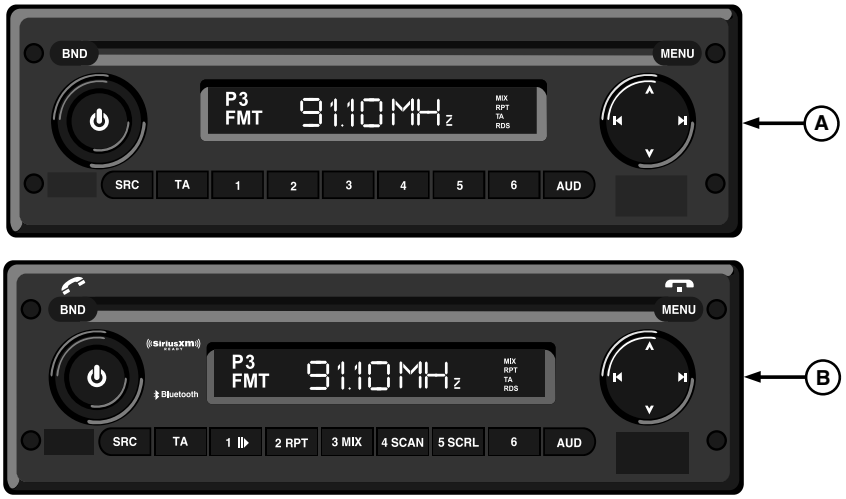


H114554—UN—24JUN15

Avoid serious injury from contact with moving components. Do not open inspection door until all separator motion has stopped.

WM05597,0001345-19-24JUN15

Radio Types (Optional)



H120833—UN—16FEB17

Main Features	Radio	Connection of external devices	USB (MP3/WMA)	Bluetooth®	Satellite Radio Ready
(A)—Deluxe Radio System	X	X			
(B)—Premium Radio System	X	X	X	X	United States / Canada

Bluetooth is a registered trademark of Bluetooth SIG

OUO6075,00045E6-19-14FEB17

After Market Radios

IMPORTANT: If installing or replacing an aftermarket radio, see your John Deere dealer for further information.

OUO6075,0000B6E-19-21MAR11

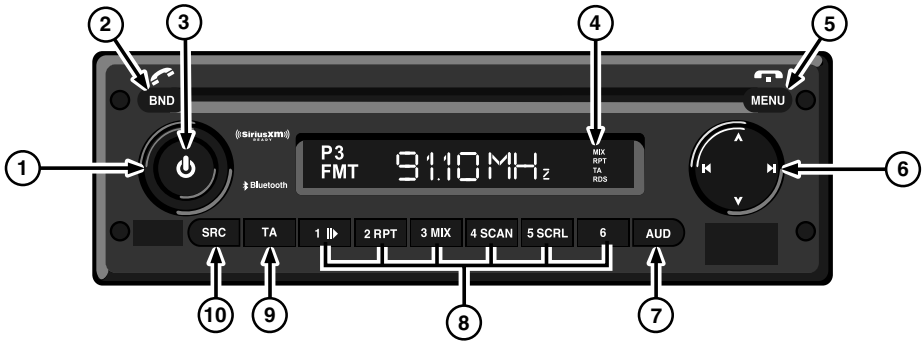
Program Radio for Local Area Frequency

NOTE: If a different tuner frequency is needed for the radio, see your John Deere dealer for further information.

Wave Bands (United States / Canada)		Wave Bands (All Other Countries)	
FM	87.7—107.9 MHz	UKW (FM)	87.5—108.0 MHz
AM	530—1710 kHz	MW	522—1629 kHz
WX	162.4—162.55 MHz	LW	153—279 kHz

OUO6075,0004584-19-18JAN17

Radio Controls



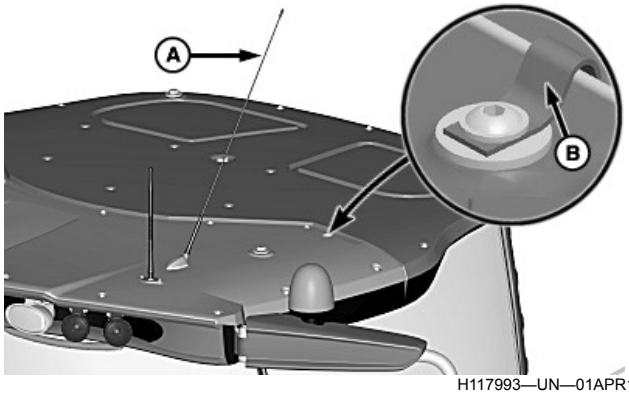
H120834—UN—17FEB17

1—Volume Control
2—Band (BND) Key
3—Power/Mute Key
4—Radio Display
5—Menu Key
6—Multi-Function Rocker Switch
7—Audio (AUD) Key
8—Key Block (1—6)
9—Traffic Announcements (TA) Key
10—Source Select (SRC) Key

NOTE: See Radio Operator's Manual for further information.

OUO6075,00045E7-19-14FEB17

Antenna



H117993—UN—01APR16

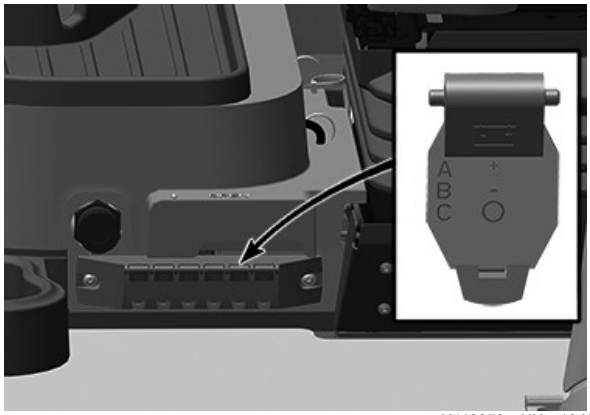
A—Radio Antenna
B—Clip

IMPORTANT: If radio is not used, or machine is transported, lower antenna and retain with clip. If the clip is not available, retain the antenna to cab roof with tape.

Remove radio antenna (A) from clip (B) when using radio.

OUO6075,0004640-19-08MAR17

Communications/CB Radio Wiring



H118079—UN—19JAN17

Auxiliary Power Outlet Strip

NOTE: Maximum combined current draw for switch power is 20 amps and unswitched power is 30 amps.

- Spade terminal (A) is direct positive power at all times.
- Spade terminal (B) is ground.
- Spade terminal (C) is auxiliary power (key switch ON).

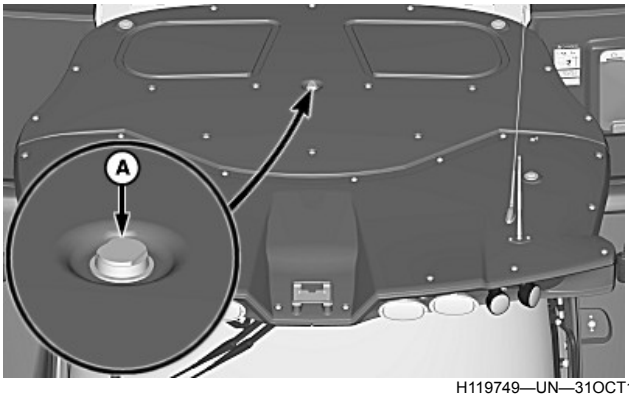
It is recommended to use spade terminals (A) and (B) to provide power and ground to the 2-way radio with high current draw. This requires the operator to manually power off the 2-way radio or utilize the battery disconnect switch at the end of the day.

It is recommended to use spade terminals (B) and (C) to provide power and ground to the 2-way radio with normal current draw. When the operator turns the key switch OFF, power to the 2-way radio is also turned OFF.

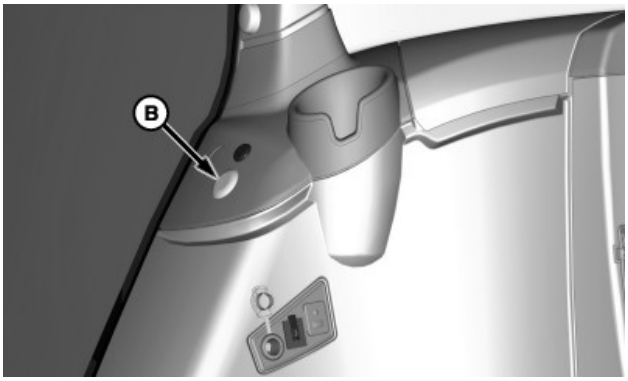
For additional information, see your John Deere dealer.

OUO6075,0004895-19-07FEB18

Communications/CB Radio Mounting

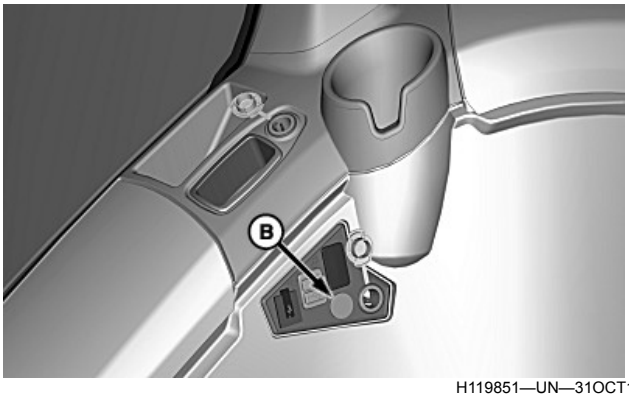


H119749—UN—31OCT16



H119854—UN—31OCT16

Antenna Cable Hole (Deluxe Cab Location)



H119851—UN—31OCT16

Antenna Cable Hole (Premium Cab Location)

A—Antenna Mount
B—Plug

IMPORTANT: Do not install a radio requiring more than 3 amps or electrical system may malfunction.

To install additional communications radio, see your John Deere dealer for further information.

Antenna mount (A) is located in the center of the cab roof.

1. Remove dust cap from the antenna base.
2. Remove brass nut from the antenna base.
3. Discard rubber washer.
4. Reinstall antenna base with O-ring facing downward.
5. Install antenna.

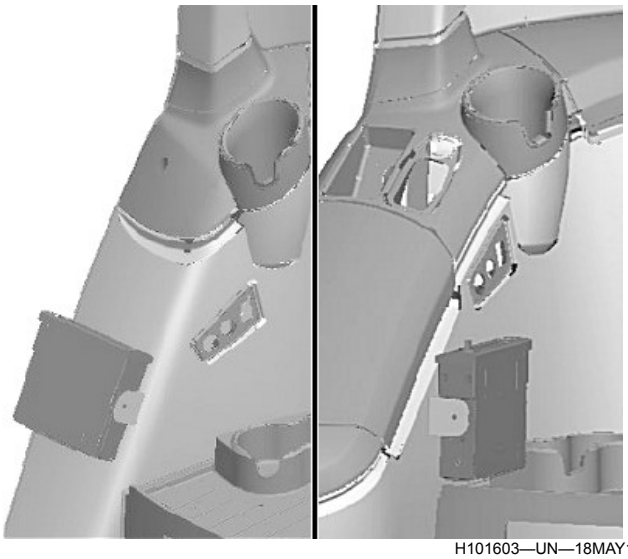
Antenna cable is located inside the right-hand console.

1. Remove plug (B) from various locations shown.
2. Remove cup holder and locate antenna cable.
3. Route antenna cable through hole opening.



H101604—UN—18MAY11

Rear Corner Post Location (Right-Hand Rear)



H101603—UN—18MAY11

Deluxe Cab Location / Premium Cab Location

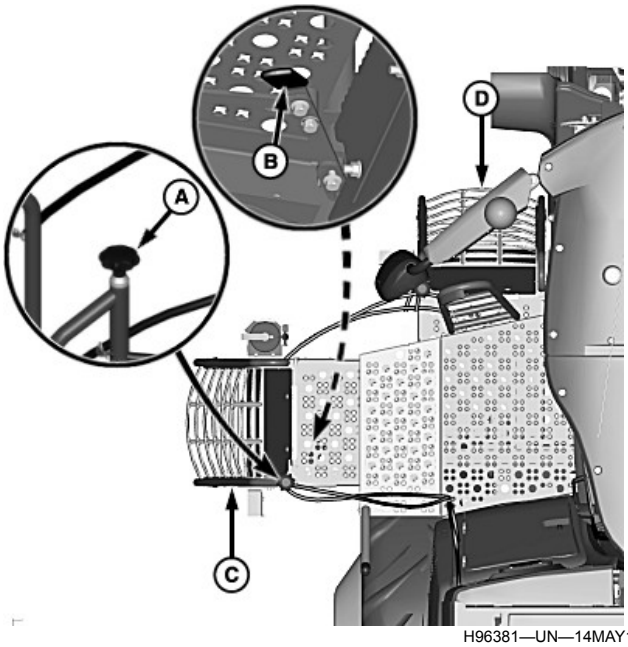
IMPORTANT: Corner post cover must be removed before drilling. Be careful not to damage wiring harnesses and coolant hoses in locations shown when drilling holes or installing hardware.

Use bracket supplied by manufacturer as a template to locate and drill holes as required in various locations shown. Use self-tapping screws or cap screws with nuts to mount bracket.

NOTE: Certain broadcast bands may cause interference with the position receiver. Select a different broadcast band or see your John Deere dealer if signal losses are noticed with the position receiver.

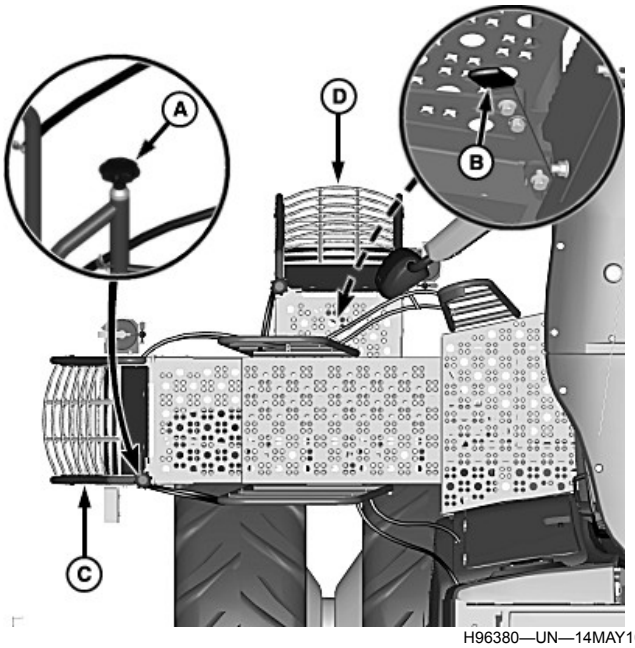
OUO6075,000439C-19-31OCT16

Cab Ladder Positions



H96381—UN—14MAY10

Ladder Positions (Single Tire Configuration)



H96380—UN—14MAY10

Ladder Positions (Dual Tire Configuration)

A—Handle
B—Lever
C—Field Position
D—Roadway Driving Position

CAUTION: Do not ride or attempt to climb front or rear ladders while machine is moving.

Ladder can be positioned from ground or on the ladder landing with handle (A) or lever (B).

If the ladder latch appears loose, clean out latch pin area. Do not use oil or grease in this area.

Swing ladder forward or rearward and lock into these different positions:

- **Position (C):** is for the normal operating field conditions.
- **Position (D):** is for transporting the machine on public roadways.

CAUTION: Always swing ladder to position (D) before transporting on public roadways in order to reduce machine width and position marker/ hazard light towards oncoming motorists.

OUO6075,0004563-19-08DEC16

Fire Extinguisher (Europe)



H92841—UN—16SEP08

General-Purpose Powder / Liquid Fire Extinguisher

CAUTION: Fire extinguishers must meet local government laws and regulations:

- **A general-purpose powder fire extinguisher that is at least 6 kg (13 lb)**
- **A pressurized liquid fire extinguisher (if equipped) with minimum volume of 8 L (2.1 gal)**

NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose powder fire extinguisher and a pressurized liquid fire extinguisher with mounting brackets are installed on your machine.

Read label on extinguishers and become familiar with instructions on how to use and maintain them. Once extinguisher is discharged, no matter for how long, it must be recharged or replaced.

IMPORTANT: Pressurized liquid fire extinguisher must not be exposed to freezing temperatures unless protected with antifreeze. See instructions decal on extinguisher for further information.

OUO6075,00042F6-19-20JUN16

Fire Extinguishers (Australia and New Zealand)



H117754—UN—17MAR16

General-Purpose Powder / Liquid Fire Extinguisher

CAUTION: Fire extinguishers must meet local government laws and regulations:

- **A general-purpose powder fire extinguisher that is at least 4 kg (10 lb)**
- **A pressurized liquid fire extinguisher with minimum volume of 8 L (2.1 gal)**

NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose powder fire extinguisher and a pressurized liquid fire extinguisher with mounting brackets are installed on your machine.

Read label on extinguishers and become familiar with instructions on how to use and maintain them. Once extinguisher is discharged, no matter for how long, it must be recharged or replaced.

IMPORTANT: Pressurized liquid fire extinguisher must not be exposed to freezing temperatures unless protected with antifreeze. See instructions decal on extinguisher for further information.

OUO6075,00042F7-19-20JUN16

Fire Extinguishers (Eurasian Economic Union)



H117754—UN—17MAR16

General-Purpose Powder / Liquid-Foam Combination Fire Extinguisher

CAUTION: Fire extinguishers must meet local government laws and regulations:

- **A general-purpose powder fire extinguisher that is at least 6 kg (13 lb)**
- **A pressurized liquid-foam combination fire extinguisher with minimum volume of 8 L (2.1 gal)**

NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose powder fire extinguisher and a pressurized liquid-foam combination fire extinguisher with mounting brackets are installed on your machine.

Read label on extinguishers and become familiar with instructions on how to use and maintain them. Once extinguisher is discharged, no matter for how long, it must be recharged or replaced.

IMPORTANT: Pressurized liquid-foam combination fire extinguisher must not be exposed to freezing temperatures. See instructions decal on extinguisher for further information.

OUO6075,00049FE-19-28JUN18

Fire Extinguisher Locations



H123653—UN—02MAR18

Front Fire Extinguisher Location



H123654—UN—02MAR18

Rear Fire Extinguisher Location

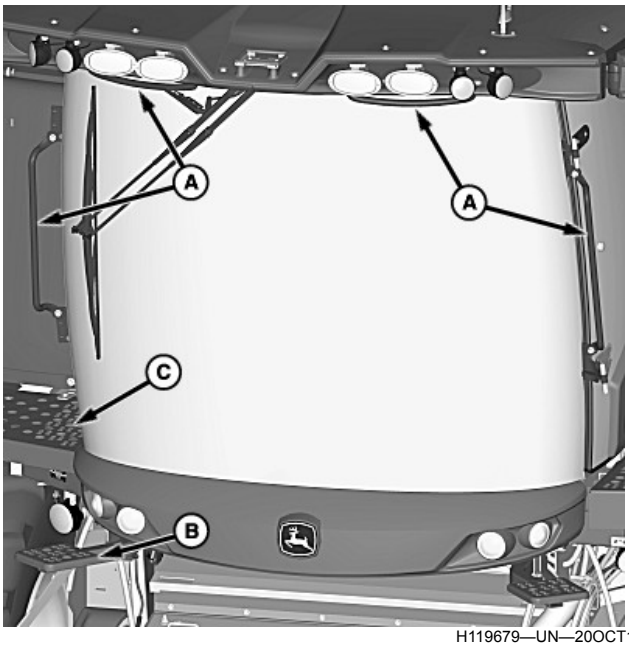
NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose fire extinguisher is on the front ladder platform.

A pressurized liquid fire extinguisher (if equipped) is on the inside of the right-hand rear engine access door.

OUO6075,0004911-19-02MAR18

Handrails and Right-Hand Landing Access



H119679—UN—20OCT16

A—Handrails
B—Step
C—Landing

CAUTION: Raise feeder house completely and lower safety stop on the feeder house lift cylinder.

IMPORTANT: Close cab door before using handrail.

Do not manually move wiper arm. This could cause damage to wiper mechanism.

Use ladder and landing to clean left side of cab.

Access feeder house by using step on the left-hand side.

Use handrails (A) on either side of cab and at top of cab.

Stand on the raised feeder house to clean front cab window and service headlights or wiper.

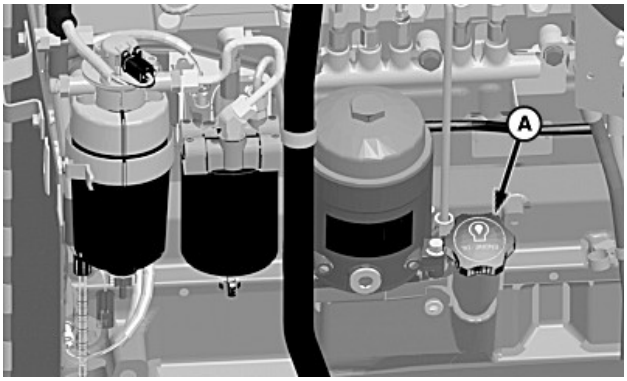
Use step (B) and landing (C) to clean right side of the cab.

OUO6075,000439D-19-15DEC16

Break-In Service

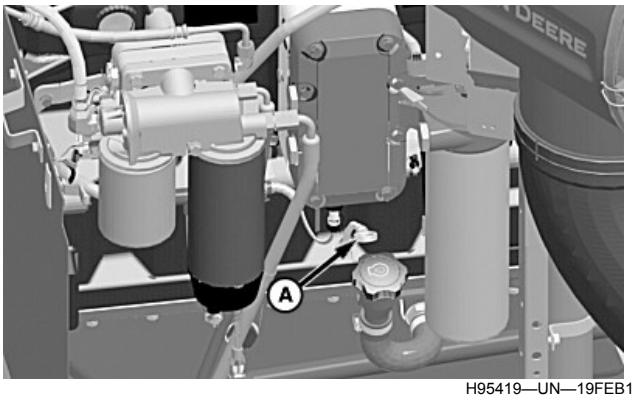
Breaking-In Engine

Tier 2/Stage II



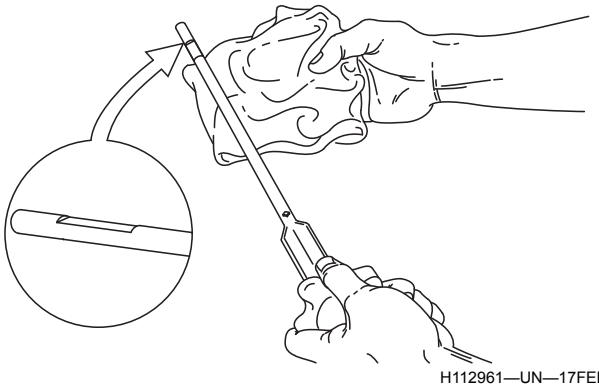
H95375—UN—16FEB10

Style A



H95419—UN—19FEB10

Style B



H112961—UN—17FEB15

A—Dipstick

Engine is factory filled with John Deere Break-In Plus™ Engine Oil. During the break-in period, add John Deere Break-In Plus™ Engine Oil as needed to maintain the specified oil level.

Operate the engine under various conditions, particularly heavy loads with minimal idling, to help seat engine components properly.

If John Deere Break-In™ Engine Oil is used during the initial operation of a new or rebuilt engine, change the oil and filter at a maximum of 100 hours.

If John Deere Break-In Plus™ Engine Oil is used, change oil and filter at a minimum of 100 hours and a maximum equal to interval specified for John Deere Plus-50™ II or Plus-50™ oil. See Fuel and Lubricants section for oil recommendations.

IMPORTANT: DO NOT add makeup oil until the oil level is BELOW the "ADD" mark on dipstick. John Deere Break-In Plus™ Oil should be used to make up any oil consumed during this period.

DO NOT use Plus-50™ or Plus-50™ II Engine Oil during the break-in period of a new engine or engine that has had a major overhaul. These oils will not allow a new or overhauled engine to properly wear during this break-in period.

Check engine oil level frequently during the break-in period. If oil must be added during this period, John Deere Break-In Plus™ Oil is preferred.

IMPORTANT: DO NOT fill above the FULL mark. Oil level anywhere within the cross-hatch marks are considered in the acceptable operating range.

NOTE: Some increase in oil consumption may be expected when low viscosity oils are used. Check oil levels more frequently.

Avoid prolonged periods of engine idling or sustained maximum load operation. If engine idles longer than 5 minutes, stop engine.

After break-in period, change engine oil and replace engine oil filter. Fill crankcase with John Deere Plus-50™ II, John Deere Plus-50™, or seasonal viscosity grade oil. See Fuel and Lubricants section for oil recommendations.

NOTE: Verify that dipstick is screwed or pushed completely into housing before removing to check oil level.

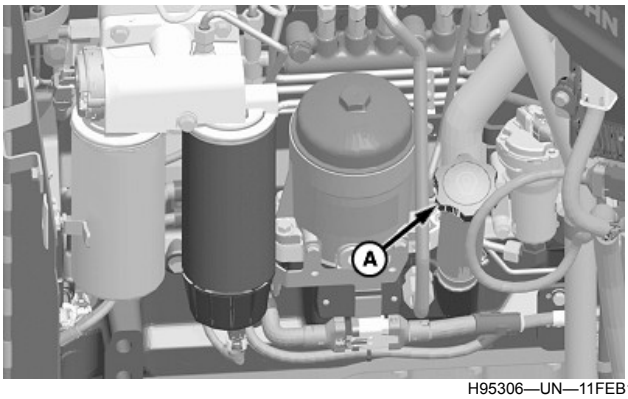
Remove dipstick (A) and check oil level daily. Oil level should be between "ADD" and top of cross-hatch area on dipstick. If oil level is below "ADD" mark, add oil as needed. See Fuel and Lubricants section for oil recommendations.

Watch for leaks. Do not operate engine when oil level is below "ADD" mark on dipstick.

Break-In Plus is a trademark of Deere & Company

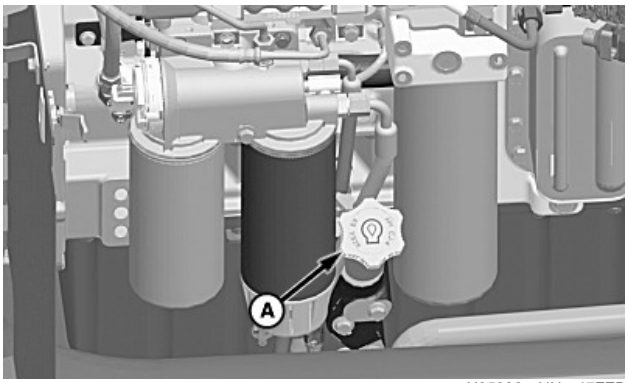
Plus-50 is a trademark of Deere & Company

Final Tier 4/Stage V



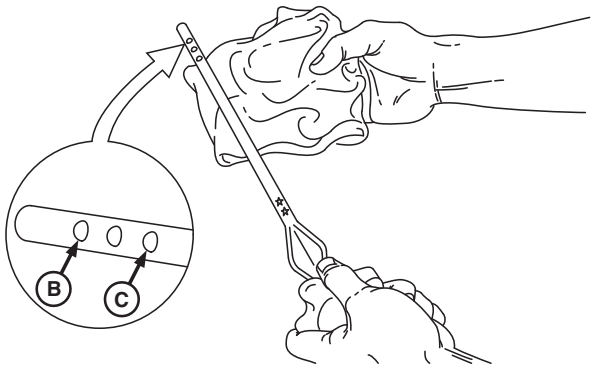
H95306—UN—11FEB10

Style A



H95396—UN—17FEB10

Style B



H113142—UN—11MAR15

A—Dipstick
B—ADD Mark
C—FULL Mark

Engine is factory filled with John Deere Break-In Plus™ Engine Oil. During the break-in period, add John Deere Break-In Plus™ Engine Oil as needed to maintain the specified oil level.

Operate the engine under various conditions, particularly heavy loads with minimal idling, to help seat engine components properly.

During the initial operation of a new or rebuilt engine, change the oil and filter between a minimum of 100 hours and a maximum equal to the interval specified for John Deere Plus-50™ II oil. See Fuel and Lubricants section for oil recommendations.

If one of these oils is used during the initial operation of a new or rebuilt engine, change oil and filter between a minimum of 100 hours and a maximum of 400 hours.

IMPORTANT: DO NOT add makeup oil until the oil level is BELOW the "ADD" mark (B) on dipstick. John Deere Break-In Plus™ Oil should be used to make up any oil consumed during this period.

DO NOT use Plus-50™ or Plus-50™ II Engine Oil during the break-in period of a new engine or engine that has had a major overhaul. These oils will not allow a new or overhauled engine to properly wear during this break-in period.

Check engine oil level frequently during the break-in period. If oil must be added during this period, John Deere Break-In Plus™ Oil is preferred.

IMPORTANT: DO NOT fill above the FULL mark (C). Oil level anywhere within the cross-hatch marks are considered in the acceptable operating range.

NOTE: Some increase in oil consumption may be expected when low viscosity oils are used. Check oil levels more frequently.

Avoid prolonged periods of engine idling or sustained maximum load operation. If engine idles longer than 5 minutes, stop engine.

After break-in period, change engine oil and replace engine oil filter. Fill crankcase with John Deere Plus-50™ II or other diesel engine oil. See Fuel and Lubricants section for oil recommendations.

NOTE: Verify that dipstick is screwed completely into housing before removing to check oil level.

Remove dipstick (A) and check oil level daily. Oil level should be between "ADD" and top of cross-hatch area on dipstick. If oil level is below the "ADD" mark, add oil as needed. See Fuel and Lubricants section for oil recommendations.

Watch for leaks. Do not operate engine when oil level is below the "ADD" mark on dipstick.

Break-In Plus is a trademark of Deere & Company

Plus-50 is a trademark of Deere & Company

All Machines



H117823—UN—22DEC16

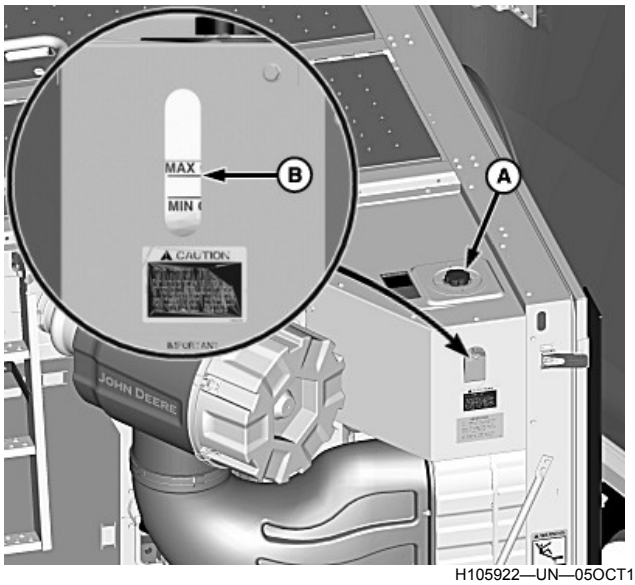
Temperature Indicator

If air temperature is below -10°C (14°F) use an engine block heater (if equipped).

Temperature indicator should read in the green zone during normal operation.

IMPORTANT: Prevent possible engine damage. Do not shut OFF engine if temperature warning light comes ON or bars enter red zone. Shutting OFF engine causes coolant temperature to rise even higher, resulting in machine damage. Reduce load and run engine at a slower speed to lower coolant temperature. Unless temperature drops quickly, stop engine and determine cause before resuming operation.

Watch temperature gauge closely. If gauge moves into the red zone, reduce load on the engine and determine cause before resuming operation.



H105922—UN—05OCT12

A—Surge Tank Cap
B—Max Cold Line

CAUTION: Shut OFF engine, set park brake and remove key. Avoid being scalded when opening surge tank cap. Never open cap when engine is hot. Open cap slowly to relieve pressure.

Check coolant level periodically and watch for signs of leaks. Remove surge tank cap (A) and pour coolant into the surge tank and fill to "Max Cold" line (B).

NOTE: Coolant level must be between "Max Cold" and "Min Cold" lines. Add coolant as needed if coolant is below "Min Cold" line.

OUO6075,00047D6-19-10NOV17

Belt Drives Adjustment - First 50 Hours

CAUTION: Never check or adjust belt drives with engine running. Shut OFF engine, set parking brake and remove key.

Check all spring loaded belt idler adjustments after first 50 hours of operation. Most belt stretch occurs during the first hours of service.

After initial adjustments, check belt adjustment as required. Washer on spring tensioner should be positioned between end of gauge and bottom of step.

OUO6075,000056C-19-14JAN10

Break-In Check Before First 100 Hours

Perform daily or 10 hour service. See Lubrication and Maintenance section.

Watch for engine temperature and engine oil pressure diagnostic trouble codes. See CommandCenter™ Display Information Application Help or Operator's Station Help for further information.

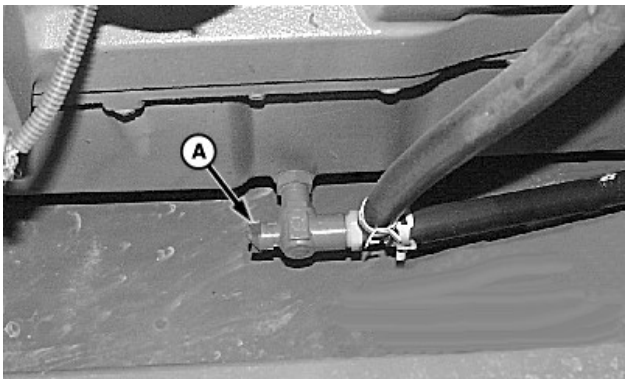
Check engine oil level (if needed, add John Deere Break-In™ Oil) and coolant level frequently and watch for signs of leaks.

Check engine air intake system hoses and clamps for tightness.

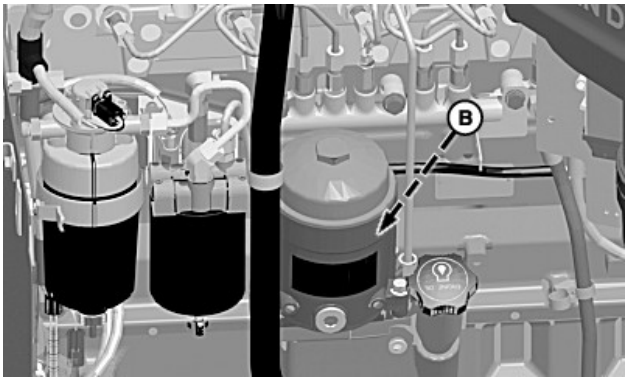
OUO6075,0004674-19-20MAR17

CommandCenter is a trademark of Deere & Company
Break-In is a trademark of Deere & Company

Break-In Service After 100 Hours (Tier 2/ Stage II)

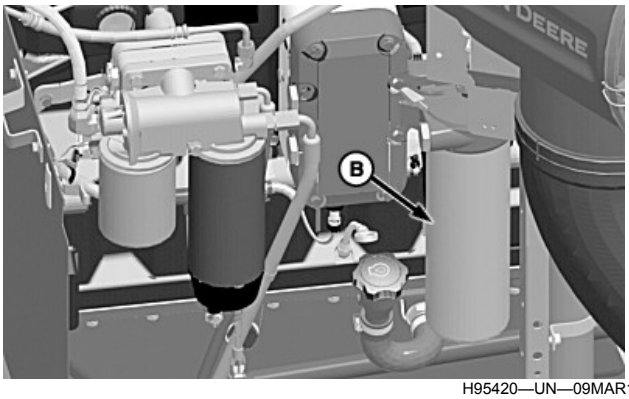


H81205—UN—15JUN04



H95377—UN—16FEB10

Style A



H95420—UN—09MAR10

Style B

A—Drain
B—Oil Filter

Drain crankcase oil by opening drain (A) and close drain once oil is drained.

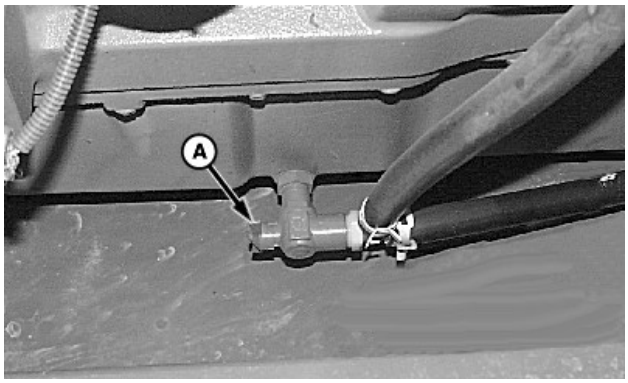
Remove and retain cap and dispose of the oil filter (B) properly.

Install oil filter and retain with cap.

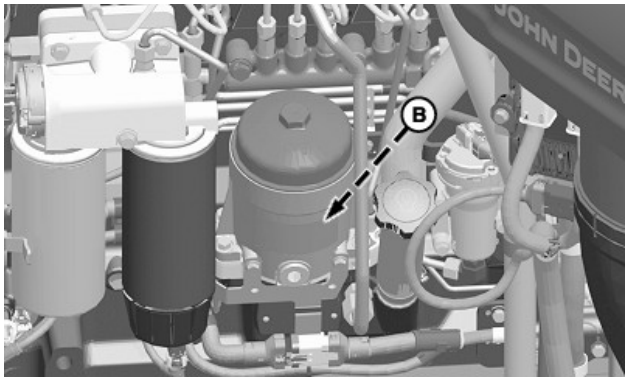
Fill crankcase with the proper amount of engine oil. See Fuel and Lubricants section for oil recommendations. See Specifications section for oil capacity.

OUO6075,00044D4-19-19DEC16

Break-In Service After 400 Hours (Final Tier 4/Stage V)

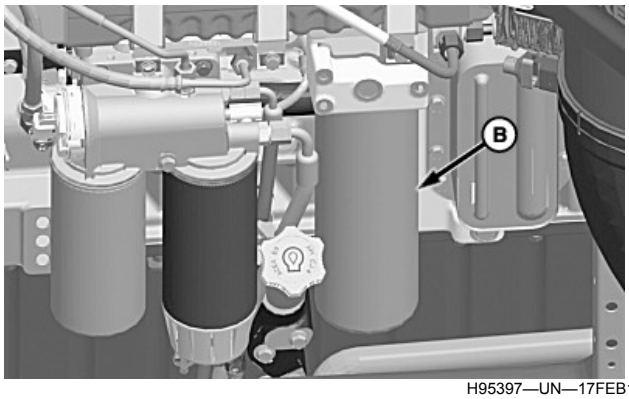


H81205—UN—15JUN04



H95310—UN—11FEB10

Style A



H95397—UN—17FEB10

Style B

A—Drain
B—Oil Filter

Drain crankcase oil by opening drain (A) and close drain once oil is drained.

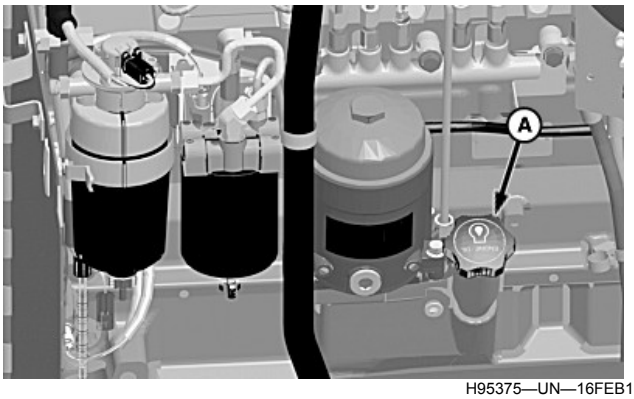
Remove and retain cap and dispose of the oil filter (B) properly.

Install oil filter and retain with cap.

Fill crankcase with the proper amount of engine oil. See Fuel and Lubricants section for oil recommendations. See Specifications section for oil capacity.

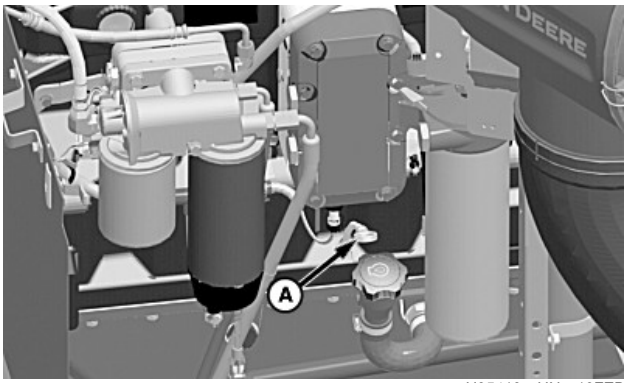
OUO6075,00047D7-19-10NOV17

Engine Oil Level



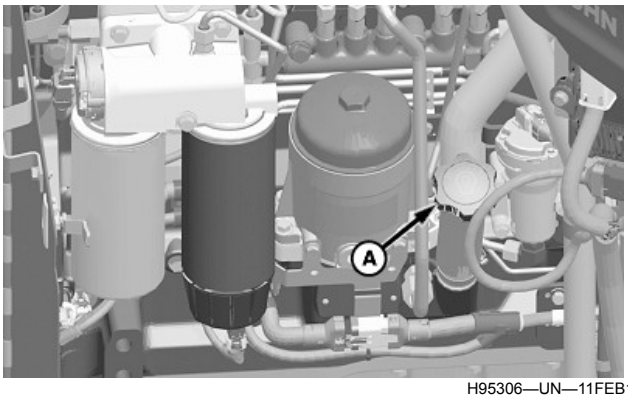
H95375—UN—16FEB10

Tier 2/Stage II (Style A)



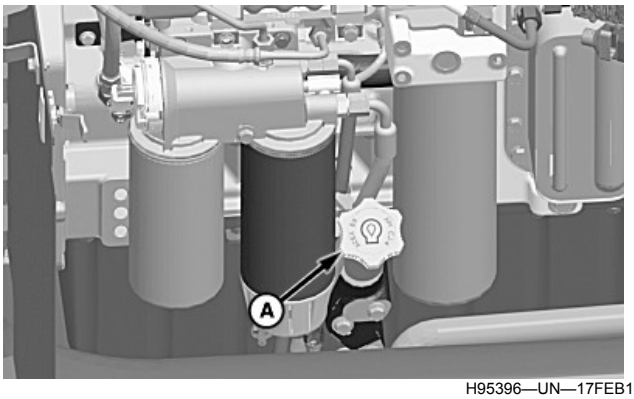
H95419—UN—19FEB10

Tier 2/Stage II (Style B)



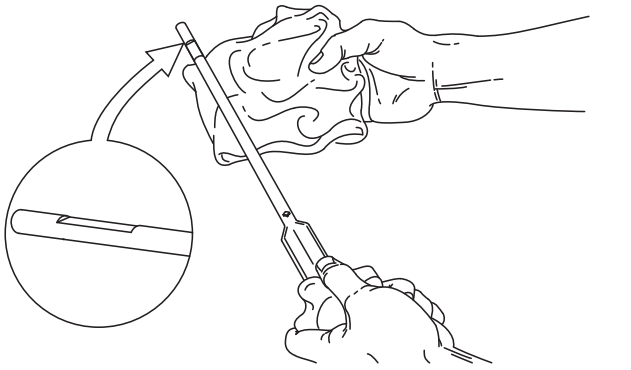
H95306—UN—11FEB10

Final Tier 4/Stage V (Style A)



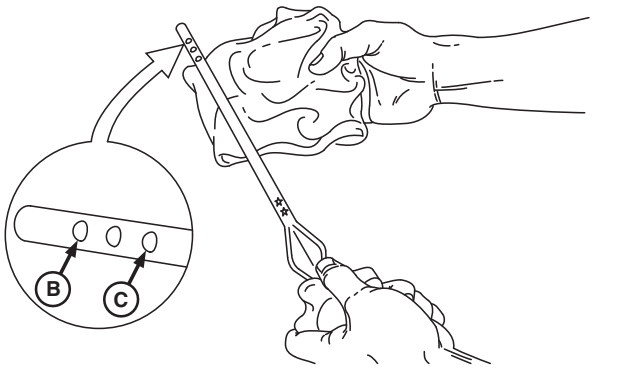
H95396—UN—17FEB10

Final Tier 4/Stage V (Style B)



H112961—UN—17FEB15

Tier 2/Stage II



H113142—UN—11MAR15

Final Tier 4/Stage V

A—Dipstick
B—ADD Mark
C—FULL Mark

IMPORTANT: It is vital to maintain engine oil at correct levels to ensure a long service life. Check oil level with the machine parked on level ground.

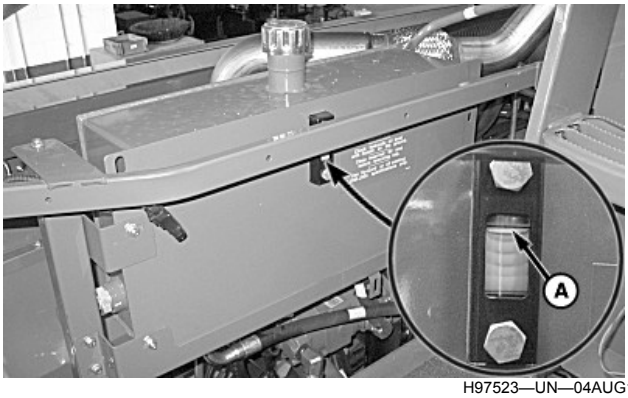
NOTE: Verify that dipstick is screwed or pushed completely into housing before removing to check oil level.

Check engine oil level with dipstick (A) daily. Do not operate engine when oil level is below "ADD" mark on dipstick.

Remove dipstick and check oil level. Oil level should be between "ADD" and top of cross-hatch area on dipstick. If oil level is below "ADD" mark, add oil as needed. See Fuel and Lubricants section for oil recommendations.

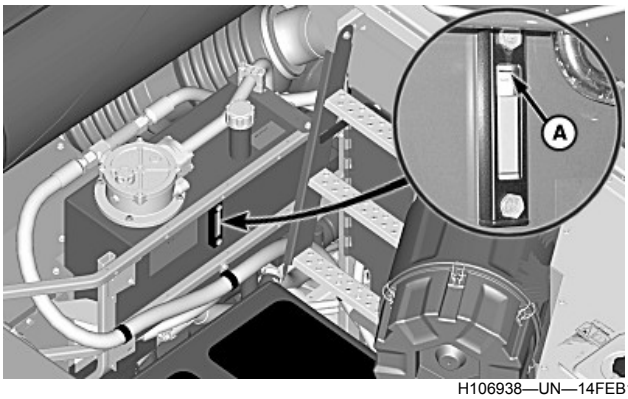
OUO6075,00047DB-19-13NOV17

Hydrostatic/Hydraulic Oil Level



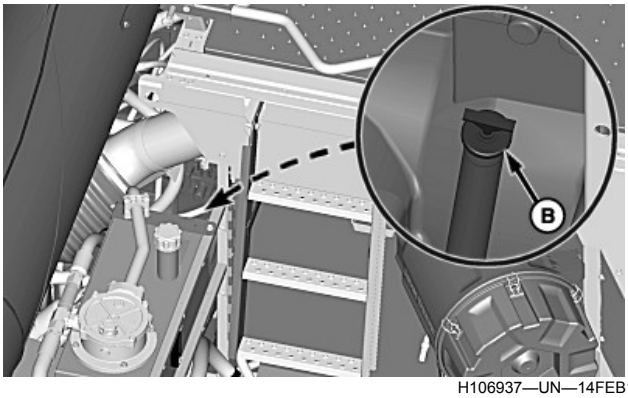
H97523—UN—04AUG10

Style A



H106938—UN—14FEB13

Style B



H106937—UN—14FEB13

Hydraulic Oil Level (Engine Gear Case)

A—Sight Glass
B—Dipstick

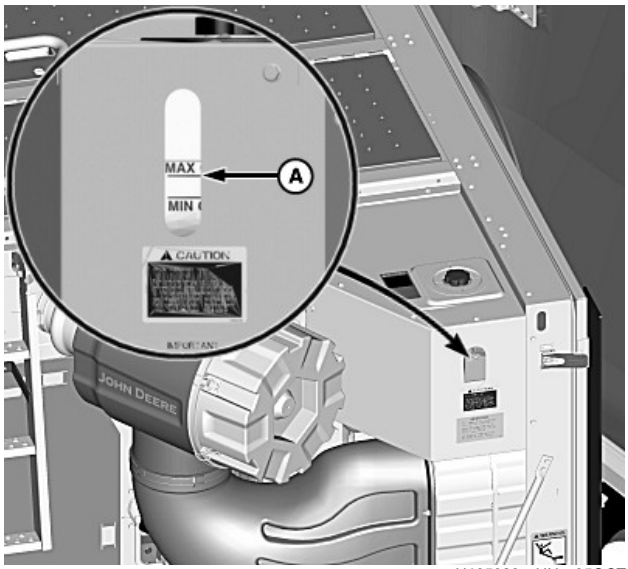
Check hydrostatic/hydraulic oil level with header on ground and all cylinders retracted. Oil level must be at top of sight glass (A) with the feeder house fully lowered. Add oil as needed, but do not overfill.

Shut OFF engine, set park brake and remove key before checking hydraulic oil at the engine gear case. Oil must not be below “ADD” mark on dipstick (B).

NOTE: On machines with ProDrive™ transmission, run the engine at slow speed for few minutes before checking the oil level.

OUO6075,00049D2-19-07JUN18

Coolant Level



H105923—UN—05OCT12

A—Max Cold Line

CAUTION: Shut OFF engine, set park brake and remove key. Avoid being scalded when opening surge tank cap. Never open cap when engine is hot. Open cap slowly to relieve pressure.

IMPORTANT: A special cap is used on the surge tank. If cap is damaged or missing, it must be replaced by an equivalent cap.

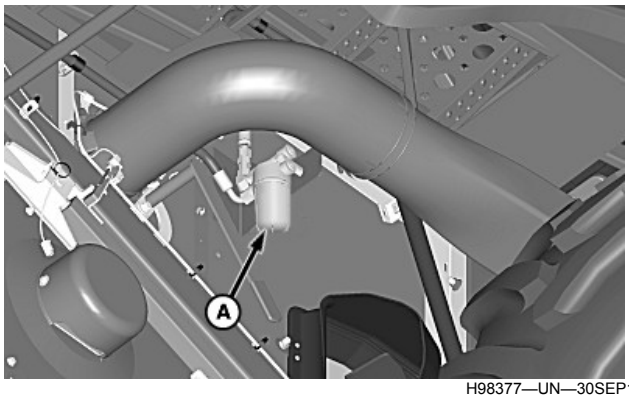
Allow engine to cool. Coolant level in the surge tank should be at "Max Cold" line (A).

NOTE: Coolant level must be between "Max Cold" and "Min Cold" lines. Add coolant as needed if coolant is below "Min Cold" line.

OUO6075,00041CB-19-11APR16

ProDrive is a trademark of Deere & Company

Fuel System



H98377—UN—30SEP10

Fuel Precleaner Bowl

A—Precleaner Bowl

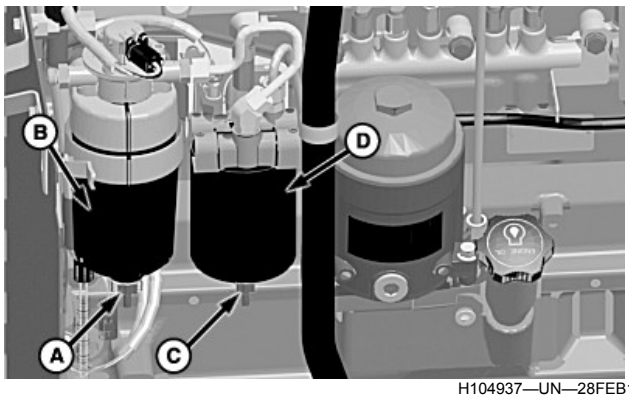
CAUTION: Shut OFF engine, set park brake and remove key before performing maintenance work on fuel filters.

NOTE: Make sure that precleaner bowl is fully seated to prevent air from entering the fuel system.

Close fuel shutoff valve on the fuel tank.

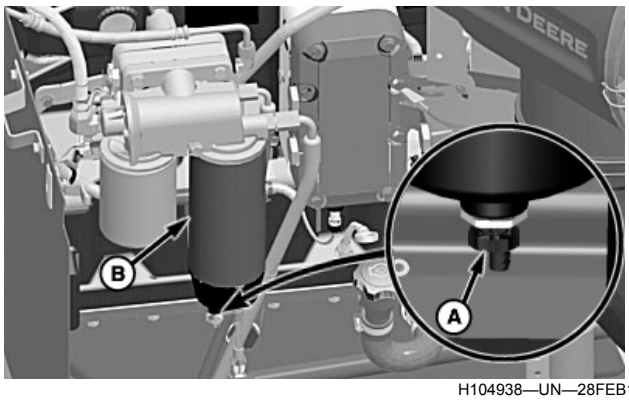
Remove precleaner bowl (A) and clean screen if dirty fuel was used.

Tier 2/Stage II



H104937—UN—28FEB12

Style A



H104938—UN—28FEB12

Style B

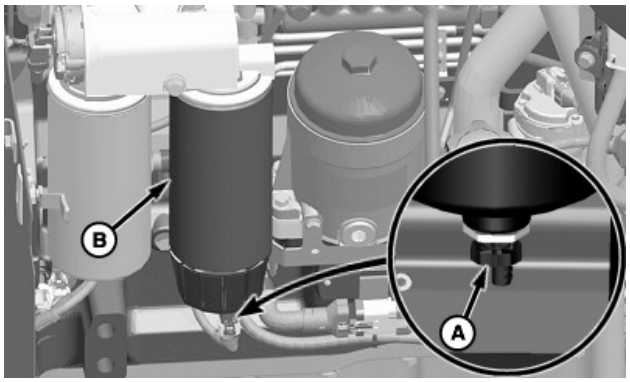
A—Drain
B—Primary Fuel Filter
C—Drain
D—Secondary Fuel Filter

Open drain (A) to inspect the fuel system for water in the primary filter (B).

Style A Only: Open drain (C) to inspect fuel system for water in the secondary filter (D).

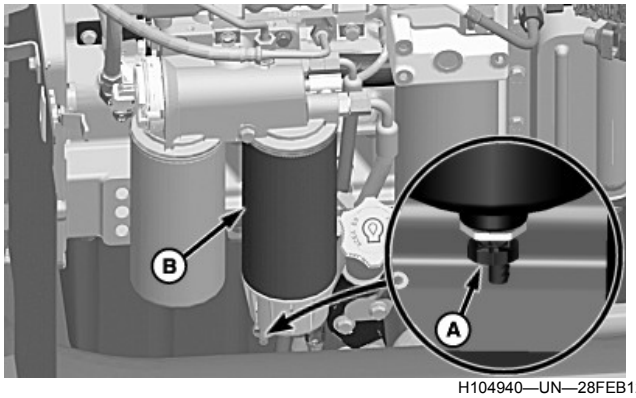
If the problem persists, change fuel filters. See Maintenance—As Required (Engine Fluids and Filters) section for further information.

Final Tier 4/Stage V



H104939—UN—28FEB12

Style A



H104940—UN—28FEB12

Style B

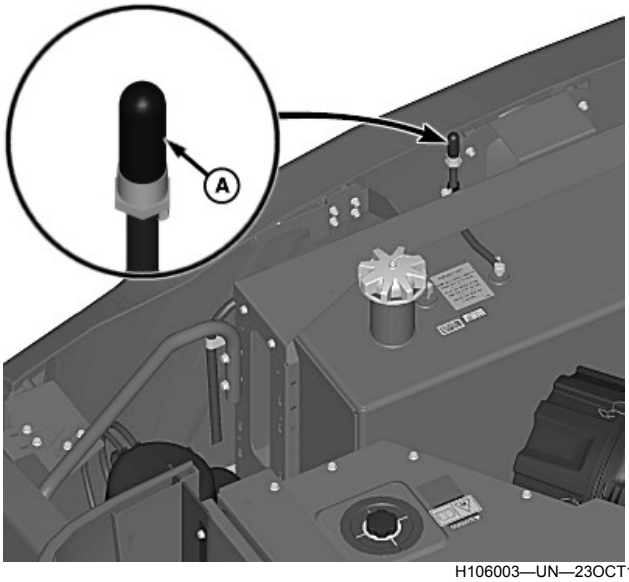
A—Drain
B—Primary Fuel Filter

Open drain (A) to inspect the fuel system for water in the primary filter (B).

If the problem persists, change fuel filters. See Maintenance—As Required (Engine Fluids and Filters) section for further information.

OUO6075,00047DC-19-13NOV17

Fuel Tank Breather



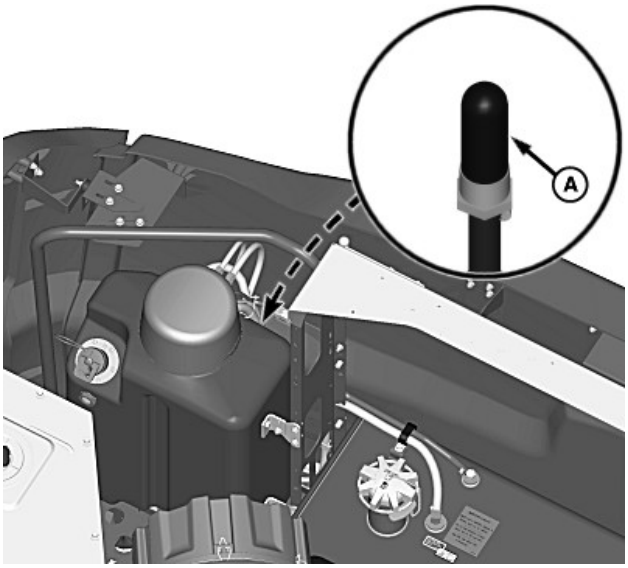
H106003—UN—23OCT12

A—Fuel Tank Breather

Visually inspect fuel tank breather (A) weekly. Do not allow excessive amounts of chaff or debris to collect on breather. If breather is covered with debris, it does not allow fuel tank to breathe. Remove fuel tank breather from hose and clean.

OUO6075,00012CA-19-27JUN13

Diesel Exhaust Fluid (DEF) Tank Breather (Final Tier 4/Stage V)



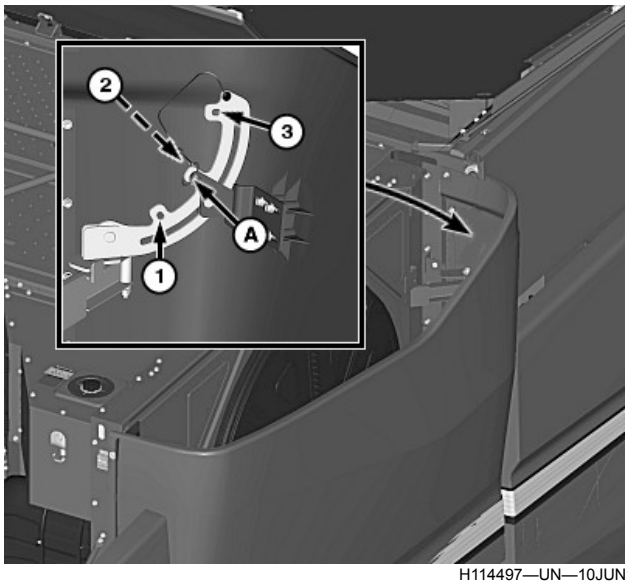
H106799—UN—05FEB13

A—Diesel Exhaust Fluid (DEF) Tank Breather

Visually inspect Diesel Exhaust Fluid (DEF) tank breather (A) weekly. Do not allow excessive amounts of chaff or debris to collect on breather. If breather is covered with debris, it does not allow tank to breathe. Remove breather from hose and clean.

OUO6075,00047DA-19-13NOV17

Engine Air Scoop Positions



H114497—UN—10JUN15

A—Lock-Out Pin
1—Transport Position
2—Standard Field Position
3—Extended Field Position

NOTE: Before field operations, verify that engine air scoop is moved to selected field position.

Remove lock-out pin (A) and rotate engine air scoop to desired position.

Transport Position:

IMPORTANT: Engine air scoop must be placed into transport position when local roadway restrictions apply. Follow your local country regulations.

Verify that engine air scoop is moved to transport position (1) when machine must be transported.

Refer to Position Engine Air Scoop (Transport Position) in this section for further information.

Standard Field Position:

IMPORTANT: Engine air scoop must be placed into standard field position when harvesting to prevent overheating of engine.

Verify that engine air scoop is in standard field position (2) when operating in normal field conditions.

Refer to Position Engine Air Scoop (Standard Field Position) in this section for further information.

Extended Field Position:

IMPORTANT: Engine air scoop must be placed into extended field position when harvesting in high ambient temperature conditions and/or high altitude areas to prevent overheating of engine.

Verify that engine air scoop is in extended field position (3) for increased cooling capacity when harvesting in high ambient temperature conditions and/or high altitude areas.

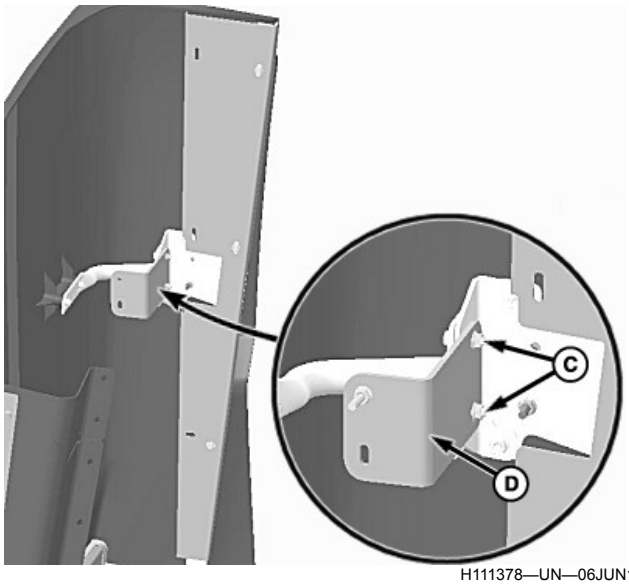
Refer to Position Engine Air Scoop (Extended Field Position) in this section for further information.

SS43267,000061F-19-10JUN15

Position Engine Air Scoop (Standard Field Position)



H114498—UN—10JUN15



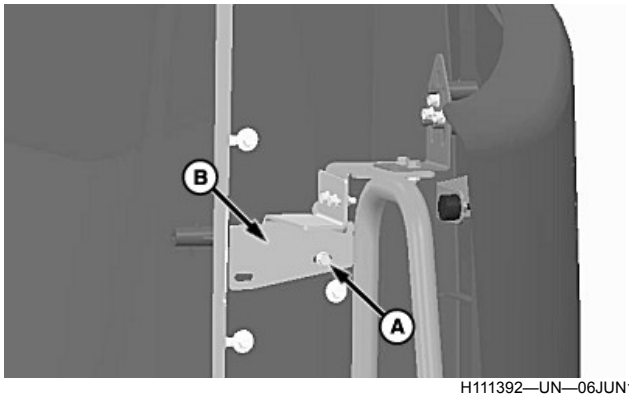
H111378—UN—06JUN14

Transport Position

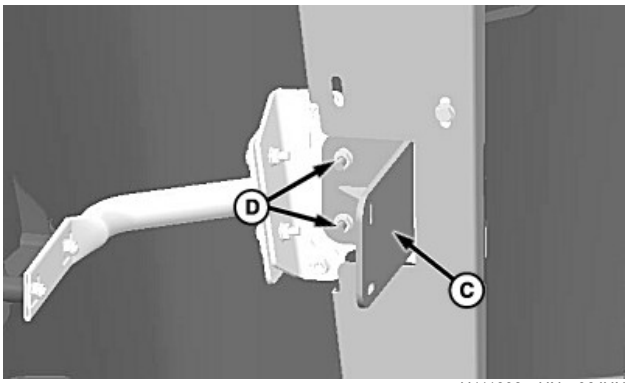
A—Lock-Out Pin
B—Holes
C—Nuts, M8 (2 used)
D—Bracket

IMPORTANT: Engine air scoop must be placed into standard field position when harvesting to prevent overheating of engine.

1. Remove lock-out pin (A) and move air scoop outward until holes (B) align.
2. Install previously removed lock-out pin.
3. Remove nuts (C) and bracket (D).
4. Install previously removed nuts back onto cap screws.



H111392—UN—06JUN14



H111393—UN—06JUN14

Standard Field Position

A—Cap Screw, M8 x 40
B—Bracket
C—Bracket
D—Nuts, M8 (2 used)

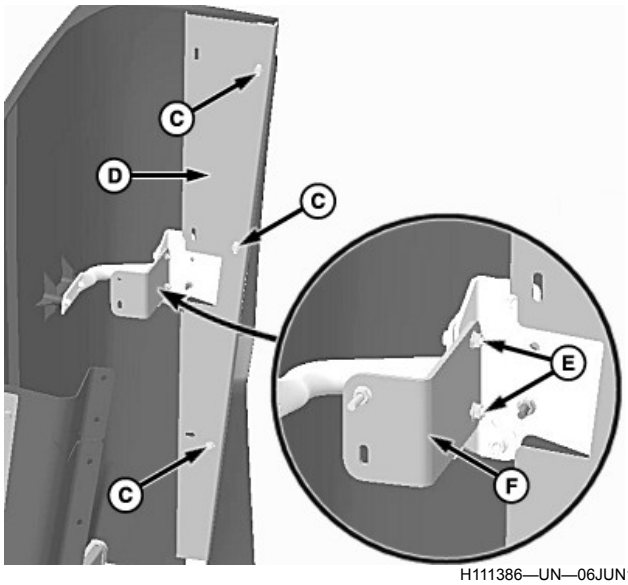
5. Move air scoop outward and install cap screw (A) through bracket (B) as shown.
6. Install bracket (C) as shown and retain with nuts (D).

SS43267,0000620-19-10JUN15

Position Engine Air Scoop (Extended Field Position)



H114499—UN—10JUN15



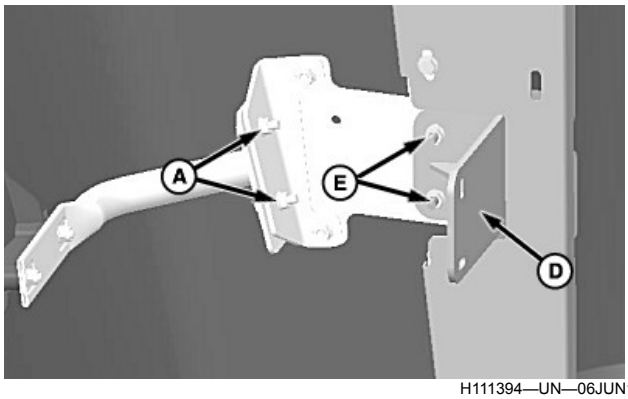
H111386—UN—06JUN14

Transport Position

A—Lock-Out Pin
B—Holes
C—Cap Screws, M8 x 25 (3 used)
D—Panel
E—Nut, M8 (2 used)
F—Bracket

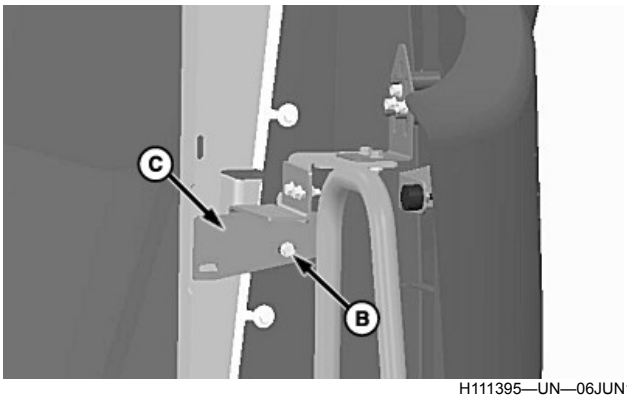
IMPORTANT: Engine air scoop must be placed into extended field position when harvesting in high ambient temperature conditions and/or high altitude areas to prevent overheating of engine.

1. Remove lock-out pin (A) and move air scoop outward until hole (B) align.
2. Install previously removed lock-out pin.
3. Remove and retain cap screws (C) from panel (D).
4. Remove nuts (E) and bracket (F).



H111394—UN—06JUN14

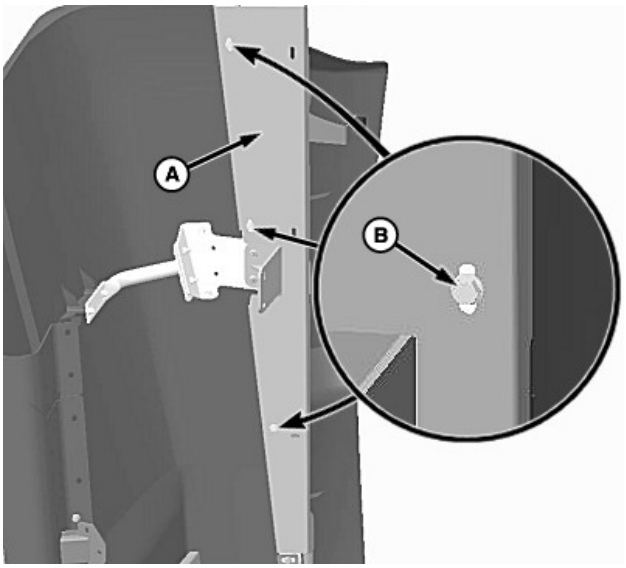
Extended Field Position



H111395—UN—06JUN14

A—Nuts, M8 (2 used)
B—Cap Screws, M8 x 40 (2 used)
C—Bracket
D—Bracket
E—Nuts, M8 (2 used)

5. Install previously removed nuts (A) onto cap screws.
6. Move air scoop outward and install cap screw (B) through bracket (C) as shown.
7. Install bracket (D) as shown and retain with nuts (E).



H111396—UN—06JUN14

A—Panel
B—Cap Screws, M8 x 25 (3 used)

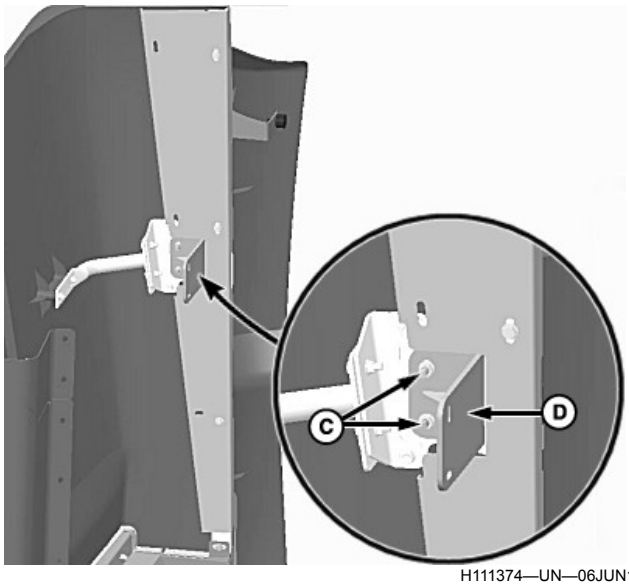
8. Install previously removed panel (A) and retain with cap screws (B).

SS43267,0000621-19-10JUN15

Position Engine Air Scoop (Transport Position)



H114500—UN—10JUN15



H111374—UN—06JUN14

Standard Field Position

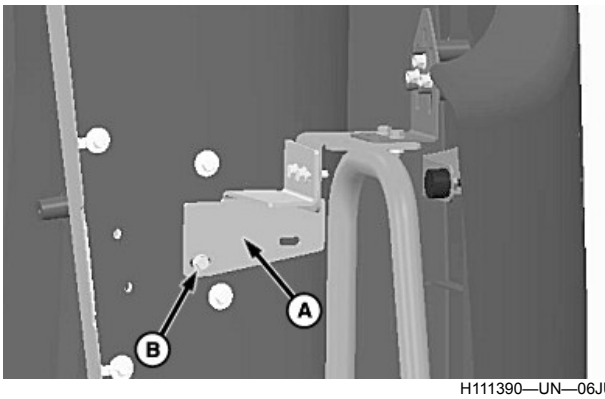
A—Lock-Out Pin
B—Holes
C—Cap Screws, M8 x 40 and Nuts, M8 (2 used)
D—Bracket

IMPORTANT: Engine air scoop must be placed into transport position when local roadway restrictions apply. Follow your local country regulations.

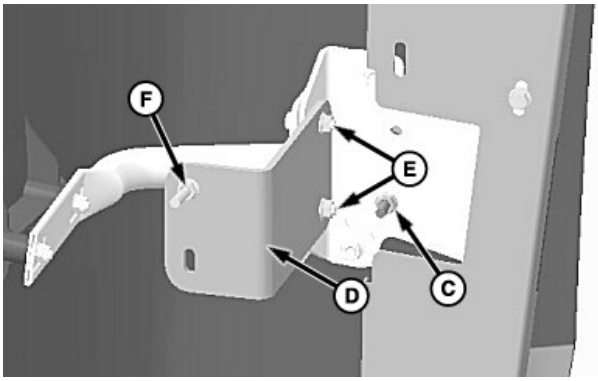
NOTE: Before field operations, engine air scoop must be moved to selected field position.

1. Remove lock-out pin (A) and move air scoop inward until holes (B) align.

2. Install previously removed lock-out pin.
3. Remove and retain cap screws and nuts (C) and bracket (D).



H111390—UN—06JUN14



H111391—UN—06JUN14

Transport Position

A—Bracket
B—Cap Screw, M8 x 40
C—Nut, M8
D—Bracket
E—Nuts, M8 (2 used)
F—Cap Screw, M8 x 40 and Nut, M8

4. Move air scoop inward and install cap screw through bracket (A) as shown and retain with nut (C).
5. Install previously removed bracket (D) and retain with nuts (E).
6. Install previously removed cap screw and nut (F) on bracket as shown.

SS43267,0000622-19-10JUN15

Cleaning Engine Compartment



H95319—UN—11FEB10

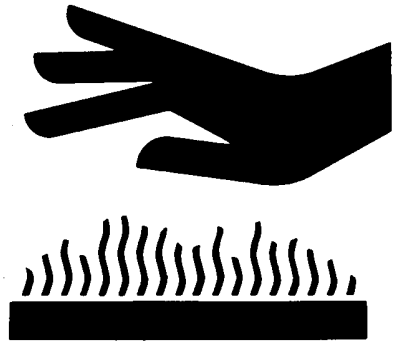
CAUTION: Do not clean engine or engine compartment with engine running. Dirt, oil, chaff, and crop debris in engine compartment and on engine is a fire hazard. Direction of wind, type of crop and its moisture content can all have an effect on where and how much chaff and debris accumulate. Check and clean this area frequently.

OUO6075,0000575-19-17MAR10

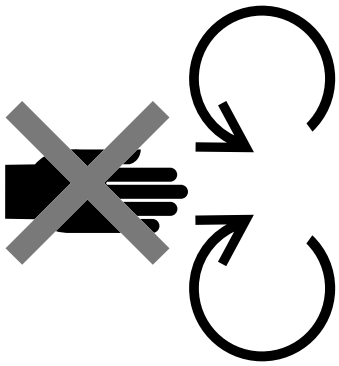
Clean Exhaust Filter Safely



TS227—UN—15APR13



TS271—UN—23AUG88



TS1693—UN—09DEC09

During exhaust filter cleaning operations, the engine may run at elevated idle and hot temperatures for an extended period of time. Exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite or melt common materials.

Keep machine away from people, animals, or structures which may be susceptible to harm or damage from hot exhaust gases or components. Avoid potential fire or explosion hazards from flammable materials and vapors near the exhaust. Keep exhaust outlet away from people and anything that can melt, burn, or explode.

Closely monitor machine and surrounding area for smoldering debris during and after exhaust filter cleaning.

Adding fuel while an engine is running can create a fire or explosion hazard. Always stop engine before refueling machine and clean up any spilled fuel.

Always make sure that engine is stopped while hauling machine on a truck or trailer.

Contact with exhaust components while still hot can result in serious personal injury.

Avoid contact with these components until cooled to safe temperatures.

If service procedure requires engine to be running:

- Only engage power-driven parts required by service procedure
- Ensure that other people are clear of operator station and machine

Keep hands, feet, and clothing away from power-driven parts.

Always disable movement (neutral), set the parking brake or mechanism and disconnect power to attachments or tools before leaving the operator's station.

Shut off engine and remove key (if equipped) before leaving the machine unattended.

OUO6075,0000E81-19-07FEB12

Avoid Hot Exhaust



RG17488—UN—21AUG09

Servicing machine or attachments with engine running can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.

Exhaust parts and streams become very hot during operation. Exhaust gases and components reach temperatures hot enough to burn people, ignite, or melt common materials.

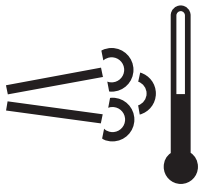
DX,EXHAUST-19-20AUG09

Aftertreatment Indicators Overview



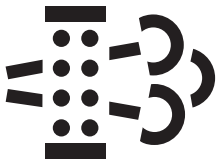
RG22487—UN—21AUG13

Diesel Exhaust Fluid Indicator



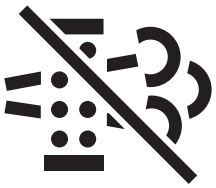
RG22488—UN—21AUG13

Engine Emissions Temperature Indicator



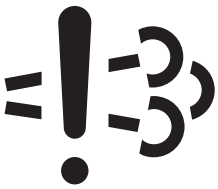
RG22489—UN—21AUG13

Exhaust Filter Indicator



RG22490—UN—21AUG13

Auto Cleaning Disabled Indicator



RG22491—UN—21AUG13

Engine Emissions System Malfunction Indicator



RG22492—UN—21AUG13

Warning Indicator



RG22493—UN—21AUG13

Engine Stop Indicator

IMPORTANT: The operator will be informed by the operator warning system when the emission control system does not function correctly and/or an engine malfunction is detected by the engine control unit. Ignoring the operator warning signals will lead to an emission related derate, resulting in an effective disablement of non-road mobile machinery operation.

It is essential to take prompt action to rectify any incorrect operation, use or maintenance of the emissions control system in accordance with the rectification measures indicated by the warnings referenced below.

The Diesel Exhaust Fluid (DEF) indicator illuminates when the DEF is low. Fill DEF tank.

When the DEF indicator is combined with the warning indicator or engine stop indicator engine performance is reduced by the Engine Control Unit (ECU) because the DEF is below a measurable level. Fill DEF tank.

When engine emissions temperature indicator illuminates exhaust gas temperature is high, elevated idle is active, or exhaust filter cleaning is in process. The machine can be operated as normal unless the operator determines the machine is not in a safe location for high exhaust temperatures and disables auto cleaning.

When engine emissions temperature indicator is combined with the warning indicator or engine stop indicator engine performance is reduced by the ECU because the exhaust gas temperature is higher than expected. Follow Diagnostic Trouble Code (DTC) procedure or see your authorized servicing dealer.

When the exhaust filter indicator illuminates the exhaust filter cleaning is in process, aftertreatment system has a fault, or the exhaust filter is in need of cleaning and the operator has disabled auto exhaust filter cleaning. If conditions are safe, the operator should enable the auto exhaust filter clean setting or perform manual service regeneration or follow DTC procedure.

When the exhaust filter indicator is combined with the warning indicator engine performance is reduced by the ECU because there is an aftertreatment system fault or the soot level of the exhaust filter is moderately high. If conditions are safe, the operator should enable the auto exhaust filter clean function. If conditions are not safe, the operator should move the machine to a safe location and engage the auto exhaust filter cleaning mode.

Perform manual service regeneration or follow DTC procedure.

When the exhaust filter indicator is combined with the engine stop indicator engine performance is further reduced by the ECU because there is an aftertreatment system fault or the soot level of the exhaust filter is extremely high. If this combination is present, see your authorized servicing dealer.

The auto cleaning disabled indicator illuminates when the operator has engaged the request to disable the auto exhaust filter cleaning function. This icon remains illuminated until the operator re-engages automatic exhaust filter cleaning from the diagnostic gauge. Disabling auto mode is not recommended for any situation unless it is safety-related or if the fuel tank lacks the required fuel to complete the cleaning process.

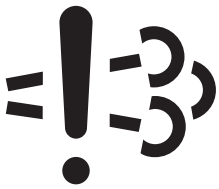
The engine emissions system malfunction indicator illuminates when engine emissions are outside of normal operating range or engine emissions system fault. Follow DTC procedure or see your authorized servicing dealer.

When the engine emissions system malfunction indicator is combined with the warning indicator engine performance is reduced by the ECU because the engine emissions are outside of normal operating range or engine emissions system fault. Follow DTC procedure or see your authorized servicing dealer.

DX,AFTRTREAT,INDCATRS-19-12FEB18

Required Machine Stop Warning

Machine Stop Mandate Occurs



RG22491—UN—21AUG13

IMPORTANT: In some situations, machine engine power may be reduced as described. On notification, immediately place the machine in a safe state and or move it to a safe location. A mandated machine stop can only be removed by a service technician.

Engine Emissions System Malfunction Indicator illuminates when an emission-related fault occurs.



RG22492—UN—21AUG13

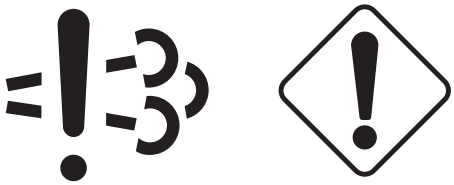
Warning Indicator illuminates when a condition exists which requires operator action.



RG22493—UN—21AUG13

Engine Stop Indicator illuminates when a condition exists which requires immediate operator action and service.

Emission System Fault Has Occurred



RG26361—UN—04SEP14

30 minutes remaining, Engine Emissions System Malfunction and Warning Indicators are illuminated and alarm sounds to warn operator of emissions-related fault. “Less than 30 minutes to Power Restriction” displayed on machines with display.

- Engine power is normal.
- Machine operation is normal.
- Place machine in a safe state.
- Contact service provider.



RG26972—UN—26MAR15

20 minutes remaining, Engine Emissions System Malfunction and Engine Stop Indicators are illuminated and alarm sounds to warn operator of emissions-related fault. “Less than 20 minutes to Power Restriction” displayed on machines with displays.

- Engine power and torque are reduced.
- Key Off - Key On will temporarily provide full power.
- Place machine in a safe state.
- Contact service provider.



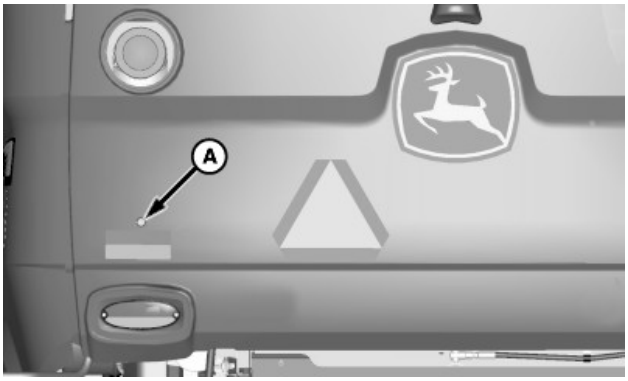
RG26972—UN—26MAR15

2 minutes or less remaining, Engine Emissions System Malfunction and Engine Stop Indicators are illuminated and alarm sounds to warn operator of emissions-related fault which has not been corrected. “Power Restriction” displayed on machines with displays.

- Engine power is idle only.
- Place machine in a safe state.
- Contact service provider.

DX,MACHSTOPWARN,AG-19-02OCT15

Object Detection Sensor (Final Tier 4/Stage V)



H106571—UN—16JAN13

A—Sensor

NOTE: Verify that sensor is not obstructed and is not covered with mud or crop debris.

Sensor (A) located on rear composite panel verifies that objects are more than 2 m (6.5 ft.) away from exhaust plume (elevated exhaust gas temperatures) during the exhaust filter cleaning process. If sensor detects that objects are closer than 2 m (6.5 ft.), system will stop the exhaust filter cleaning process.

OUO6075,00047DD-19-13NOV17

Starting the Engine



H119917—UN—02NOV16

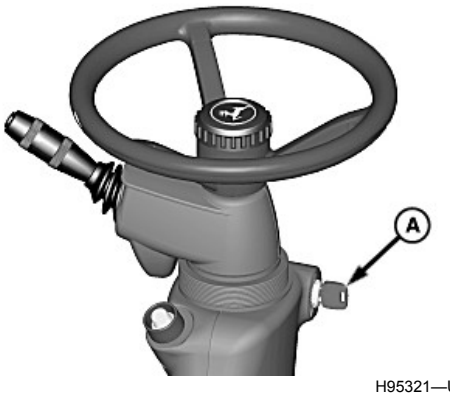
A—Multi-Function Lever
B—Header Engage Switch
C—Separator Engage Switch

CAUTION: Before starting engine, make sure that everyone is clear of machine. Sound horn to warn others.

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove exhaust fumes from area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open doors and get outside air into area.

1. Move multi-function lever (A) to neutral position.
2. Verify that header engage switch (B) and separator engage switch (C) are OFF.



H95321—UN—02NOV10

A—Key Switch

CAUTION: Sound horn before starting engine to warn others to stay clear from machine.

To avoid the possibility of personal injury or death, start engine ONLY from the operator seat. Do not start engine by shorting across starter terminals. Machine starts in gear if bypassed.

IMPORTANT: To prevent starter damage, do not operate starter for more than 30 seconds at a time. If engine does not start, wait at least 2 minutes before trying again.

NOTE: If temperature is below -5°C (23°F) it may be necessary to use cold weather starting aid. See Cold Weather Starting Aid in Operating the Engine section in the Operator’s Manual.

When the key switch is turned to START, a delay of a couple of seconds will occur. This allows control units to power up, relays to close, and starter solenoid to energize.

Decal under the storage box lid on the armrest shows engine starting information.

3. Sound horn and turn key switch (A) on the steering column to START position.

   Key positions are:

First Position . . . . . Accessories
Second Position . . . . . OFF
Third Position . . . . . Run
Fourth Position . . . . . Start

NOTE: Diagnostic Trouble Codes (DTC) displays if Stop Engine Code appears on display. Display stops normal functions, indicating a problem that requires the machine to be stopped and the problem corrected immediately. Codes are displayed until the problem is resolved. If the problem cannot be resolved, see your John Deere dealer.

4. Release key after engine starts and let engine run at slow speed for 5 minutes to warm oil.

OUO6075,0004930-19-07JUN18

Stopping the Engine



H119918—UN—02NOV16

A—Multi-Function Lever
B—Slow Speed Engine Switch
C—Header Engage Switch
D—Separator Engage Switch

1. Lower header or reel completely to ground.
2. Move multi-function lever (A) to neutral position.
3. Press slow speed engine switch (B).
4. Shut OFF header engage switch (C) and separator engage switch (D).

IMPORTANT: Cooling of turbocharger and some engine parts is provided by engine oil. Stopping a hot engine might cause damage to these parts.

5. Before stopping an engine that was operating at working load, idle engine 2—3 minutes to allow turbocharger to cool.

CAUTION: Set park brake and remove key before leaving machine.

6. Turn the key switch to the OFF position.

IMPORTANT: Final Tier 4/Stage V: Do not disconnect battery for at least 90 seconds after machine is shut OFF. Selective Catalyst Reduction (SCR) system automatically purges lines of Diesel Exhaust Fluid (DEF) during this time, immediately after machine is shut OFF. If adequate time is not allowed for lines to be purged, any fluid remaining in lines can crystallize and plug lines. In freezing weather, fluid freezes and possibly burst lines.

OUO6075,0004931-19-07JUN18

Engine Speed Management (ProDrive™ Machines)

NOTE: Engine speed management is software-controlled and activated with the road transport disconnect switch.

Engine speed management reduces fuel consumption and increases fuel efficiency.

- Fuel consumption is reduced in low load conditions with a reduction in engine speed.
- Maintain high load capabilities by dynamically increasing engine speed when needed.
- Ground speed is maintained during engine speed changes through varying hydrostatic displacements.
- Engine speed stays at low idle when machine is not moving.
- Engine speed is approximately 1600 rpm when machine is on flat ground or with low ground speeds.
- Engine speed changes between approximately 1600 rpm and maximum high idle depending on the engine load.

- Low Engine Speed - engine speed stays at 1200 rpm.
- Medium Engine Speed - engine speed will not exceed 1690 rpm.
- High Engine Speed - engine speed changes between approximately 1600 rpm and maximum high idle.

OUO6075,00046F3-19-30MAR17

Handle Starting Fluid Safely



TS1356—UN—18MAR92

CAUTION: Starting fluid is highly flammable. DO NOT use near fire, sparks, or flames. Read CAUTION information on container. Protect container against damage. DO NOT carry extra or empty cans inside cab.

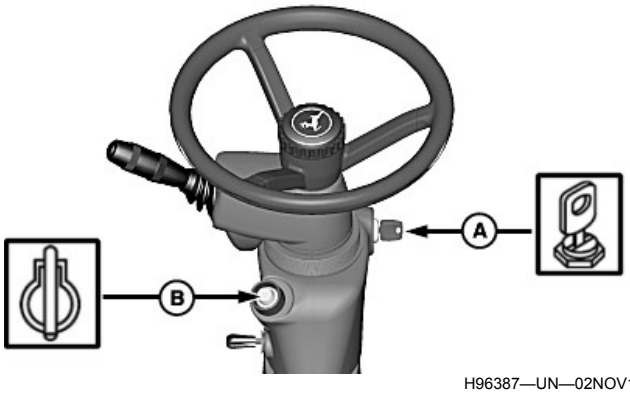
If starting fluid is not used for several days, remove can. Check fluid and valve operation by reinstalling and depressing spray nozzle. If no fluid is emitted, use a new can.

To prevent accidental discharge when storing the pressurized can, keep cap on container. Store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.

OUO6075,0000585-19-17MAY10

Cold Weather Starting Aid (If Equipped)



H96387—UN—02NOV10

A—Key Switch
B—Starting Aid Button

CAUTION: Avoid personal injury and damage to the engine. Inject fluid only while engine is turning.

Starting aid only works in "Run" or "Start" positions.

Turn key switch (A) to start engine. When engine starts to turn over, press starting aid button (B).

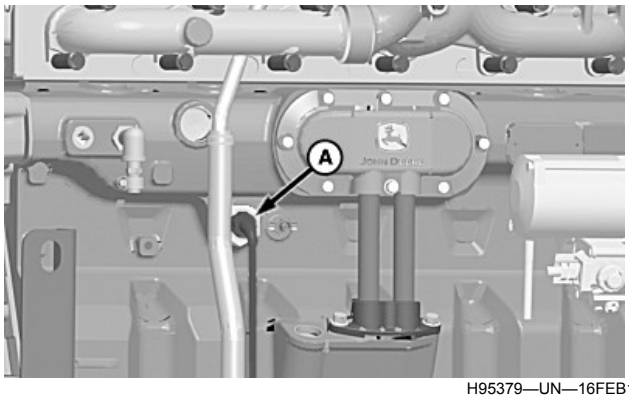
When engine starts, release key, and starting aid button.

If temperature is below -5°C (23°F), hold starting aid button down for 2—3 seconds after engine starts. Repeat procedure until engine runs without faltering.

IMPORTANT: To assure proper lubrication, operate engine at slow speed, with no load for 1—2 minutes. Extend this period to 2—4 minutes when operating at temperatures below freezing.

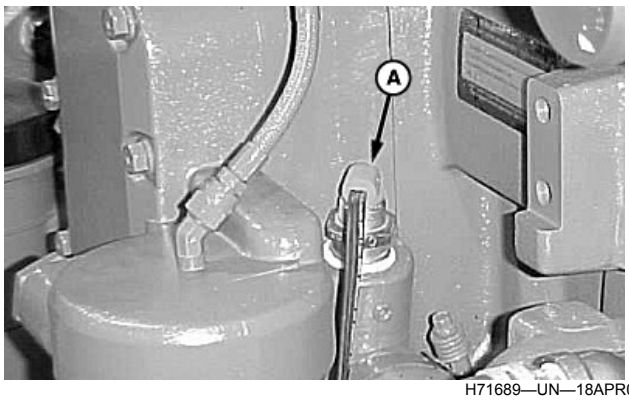
OUO6075,0004932-19-07JUN18

Coolant Heater



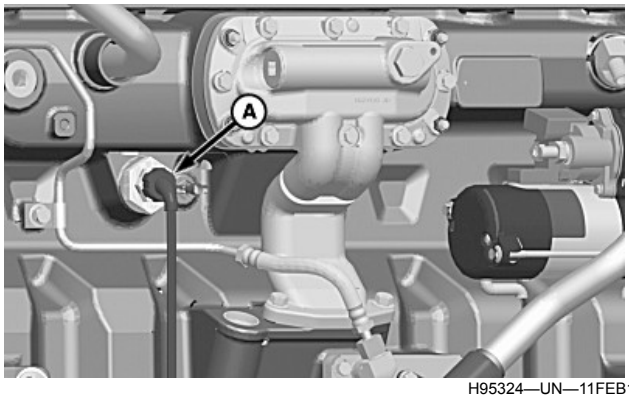
H95379—UN—16FEB10

Tier 2/Stage II (Style A) (Front Side)



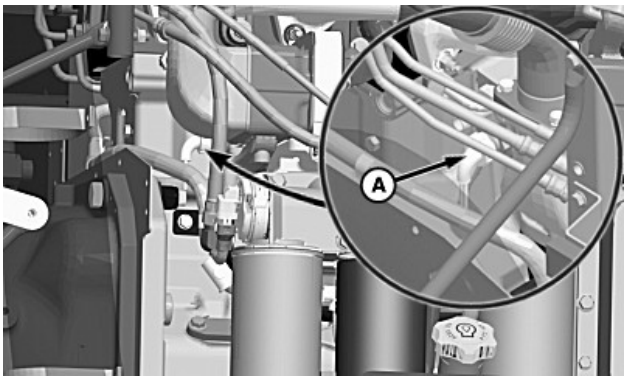
H71689—UN—18APR02

Tier 2/Stage II (Style B) (Rear Side)



H95324—UN—11FEB10

Final Tier 4/Stage V (Style A) (Front Side)



H95424—UN—19FEB10

Final Tier 4/Stage V (Style B) (Rear Side)



TS210—UN—23AUG88

A—Coolant Heater

CAUTION: To avoid shock or hazardous operation, always use a three wire heavy-duty electrical cord (minimum gauge 10 AWG and no longer than 7.6 m (25 ft)) equipped with three connectors. If a two to three contact adapter is used at the wall receptacle, always connect green wire to a good ground.

Before connecting heater to the power source, be sure that element is immersed in coolant. NEVER energize the heater in the air. Doing so can cause the element sheath to burst causing personal injury.

Coolant heater (A) mounts in freeze plug opening (front side or rear side of engine). By warming engine coolant, the heater reduces oil drag, eases starting, and shortens warm up time.

Coolant Heater Types

- 1000 W (110 V)
- 1000 W (220 V) (Export Machines)

OUO6075,00047E0-19-13NOV17

CommandCenter™ Display Information

Determine Machine Specific Information

Information may vary depending on machine options and various software configurations. Some items are only displayed if the machine is equipped with the associated option. Verify the hardware and software components that are installed on your machine in order to choose the correct information.

CS12167,0000B39-19-30APR18

Onscreen Help



PC15300—UN—19MAR13

Help Center Application and Information Button

Help Center is a supplement to the paper Operator's Manual. Read the Operator's Manuals prior to operation.

Navigate to Help Center

1. Select Menu.
2. Select System tab.
3. Select Help Center application.

DX,PC,INTRO,HELP-19-17DEC15

Generation 4 CommandCenter™

The John Deere Generation 4 CommandCenter™ is designed for maximum ease of use and productivity. One software system provides commonality while hardware options provide a range of price and functionality. The CommandCenter™ display is attached to the CommandARM™. There are 7, 8.4, and 10 inch display options available.

NOTE: Software in Generation 4 CommandCenter™ is on processor, not display.

4100 CommandCenter™ (7 Inch)



PC17356—UN—03DEC13

4100 CommandCenter™

- Run Page Modules same as 10 inch display
- Shortcut Softkeys must be expanded to view.

4200 CommandCenter™ (8.4 Inch) and **4600 CommandCenter**™ (10 Inch)



PC17355—UN—03DEC13

4200 and 4600 CommandCenter™

- Title Bar displays currently viewed Run Page
- Large Status Center provides more information
- Shortcut Softkeys are always visible.

DX,PC,INTRO,DISP-19-23APR18

CommandCenter is a trademark of Deere & Company
CommandARM is a trademark of Deere & Company

Generation 4 CommandCenter™ Processor

Generation 4 CommandCenter™ software runs on a processor separate from the display.

NOTE: Maximum capabilities for each processor are listed. Depending on machine configuration, some functions may not be available.



PC25546—UN—19APR18

4100 and 4200 Processor



PC25545—UN—19APR18

4600 Processor

4100 and 4200 Processor

- 1 Video Camera Input
- 1 USB Input
- 1 Display Output

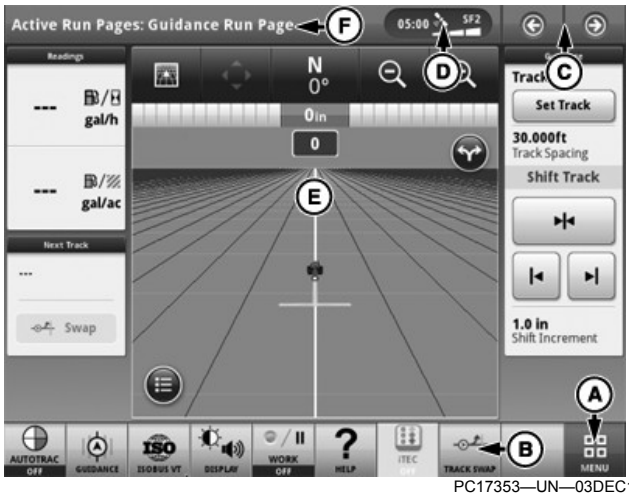
4600 Processor

- 4 Video Camera Inputs
- 4 USB Inputs
- 2 Display Outputs
- Upgradable for future applications

DX,PC,INTRO,PROC-19-25APR18

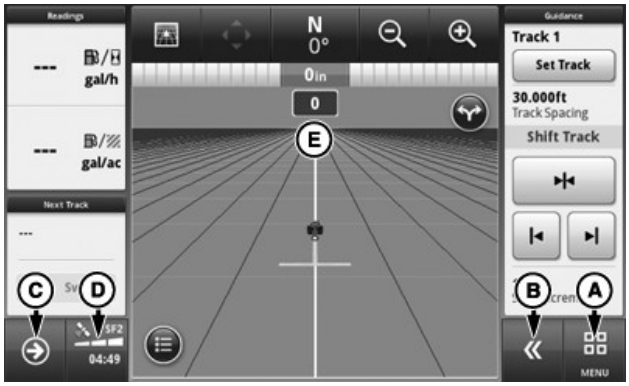
CommandCenter is a trademark of Deere & Company

Run Page Structure



PC17353—UN—03DEC13

8.4 Inch (4200) and 10 Inch (4600) Display Run Page



PC17354—UN—03DEC13

7 Inch (4100) Display Run Page

A—Menu
B—Shortcut Softkeys
C—Next or Previous Run Page Buttons
D—Status Center
E—Run Page
F—Title Bar/Run Page Selection

Menu (A) lists all applications installed on display and machine.

Shortcut softkeys (B) provide quick access to frequently used applications and functions. On 7 inch display, select expand button to display shortcut softkeys.

Next and Previous Run Page buttons (C) cycle through multiple run pages.

Select the area indicated (D) to display **Status Center**. Important information for display functions is highlighted, such as GPS signal strength and available data storage.

Run page (E) is configured using Layout Manager application.

On the 8.4 and 10 inch displays, press **title bar** (F) to display **Run Page Selection** page. Choose desired run page from list of available pages.

(Refer to Layout Manager application for information about customizing the run page.)

DX,PC,INTRO,RUNPAGE-19-30APR18

Status Center



PC17275—UN—13AUG13

A—8.4 and 10 inch Display Status Center
B—7 inch Display Status Center

Status Center highlights important information for display functions, such as GPS signal strength and notifications. It is located in title bar on 8.4 and 10 inch displays, and in lower left corner on 7 inch displays.

Select Status Center to display additional information in a drop down window. The expanded Status Center provides quick access to notifications and settings.

NOTE: Date and Time and Data Storage are always displayed in Status Center.

Additional information is displayed depending on machine configuration and notifications.

DX,PC,INTRO,STATUS-19-23APR18

Shortcut Softkeys



PC17276—UN—13AUG13

A—Shortcut Softkeys

Shortcut softkeys (A) display status information and provide quick access to application functions.



PC17277—UN—13AUG13

B—7 Inch Display Expand Button

Softkeys are always visible along the bottom of the 8.4 and 10 inch displays. On 7 inch display, select expand button (B) to display softkeys.

(Refer to Layout Manager application for information about customizing the shortcut bar.)

DX,PC,INTRO,SHORTCUTBAR-19-23APR18

Menu



PC17269—UN—15JUL13

Menu Button

Selecting Menu button lists all applications installed on display and machine. Select left-hand tabs to view different groups of applications.

NOTE: Available applications vary depending on machine configuration.

DX,PC,INTRO,MENU-19-21DEC15

Operating System Applications Overview



PC15302—UN—19MAR13

Operating System Applications Package

Operating System applications package is installed at the factory, and is updated with periodic software updates from John Deere. These applications are used for basic functions of display.

Calculator



PC23955—UN—24MAR17

Calculator

- Use Calculator application for quick mathematical calculations.
- It is found on Applications tab of the display menu.

COM Port Settings



PC25540—UN—18APR18

COM Port Settings

- Configures RS-232 signal so that the display can communicate with different control units or devices.
- COM Port Settings application requires a 4600.
- It is found on System tab of the display menu.

Controls Setup



PC15326—UN—08JUL13

Controls Setup

- Configures an ISOBUS or machine joystick to control machine or implement functions.
- It is found on Applications tab of the display menu.

Date and Time



PC16674—UN—18MAR13

Date and Time

- Information from Date and Time application is used for several important functions on system. These include error logging, activations, and data recording.
- Date and time are set automatically if a GPS receiver is connected and receiving valid signal. In this case, only set time zone.
- It is found on System tab of the display menu.

Diagnostics Center



PC17272—UN—17JUL13

Diagnostics Center

- Diagnostics Center is the one place to find diagnostics for the entire system.
- It is found on System tab of the display menu.

Display and Sound



PC16685—UN—18MAR13

Display and Sound

- Along with display brightness and volume, Display and Sound is used to calibrate display and configure multiple displays.
- It is found on System tab of the display menu.

Equipment Manager



PC20410—UN—22MAY15

Equipment Manager

- The Machine Profile allows operator to configure GPS offsets and machine dimensions.
- The Implement Profile allows operator to configure Implement Connection Type, Working Width, Dimensions, and Recording Triggers.
- It is found on Applications tab of the display menu.

Fields and Boundaries



PC17260—UN—11JUL13

Fields and Boundaries

- Field names are used to organize information so it is easier to find and use data, such as guidance lines.
- Use Fields and Boundaries application to set up clients, farms, and fields.
- Select client, farm, and field to set current location.
- It is found on Applications tab of the display menu.

File Manager



PC16671—UN—18MAR13

File Manager

- Data and setup information can be transferred between displays or compatible desktop software.
- Perform a Factory Data Reset to clear display of user data.
- It is found on System tab of the display menu.

Flags



PC25539—UN—18APR18

Flags

- Flags are used to mark points of interest within a field.

- It is found on Applications tab of the display menu.

Help Center



PC16684—UN—18MAR13

Help Center

- Onscreen Help about each application and more is available in Help Center.
- Not all Help languages are installed at the factory. Update display software to install Help for all supported languages.
- It is found on Applications tab of the display menu.

ISOBUS VT



PC16682—UN—18MAR13

ISOBUS VT



PC15293—UN—18MAR13

ISOBUS VT Menu

- Monitor and control ISOBUS 11783 compatible controllers and implements.
- It is found on Applications tab of the display menu.

NOTE: Only one ISOBUS controller can be viewed at a time. If more than one controller is connected, select Menu button within ISOBUS VT to view a list of controllers to choose from.

Language and Units



PC16677—UN—18MAR13

Language and Units

- Use Language and Units application to change Language, Number Format, and Units of Measurement.
- It is found on System tab of the display menu.

Layout Manager



PC16678—UN—18MAR13

Layout Manager

- Use Layout Manager to create and modify run pages and shortcut bar so important information and functions can be accessed from the main page.
- It is found on Applications tab of the display menu.

Machine Monitor



PC15318—UN—16MAY13

Machine Monitor

- Machine Monitor displays machine-specific performance values.
- It is found on Applications tab of the display menu.

Mapping



PC20413—UN—11MAY15

Mapping

- Mapping application is used to view spatial features, such as guidance, coverage, work data, and map based prescriptions. (Prescriptions require a CommandCenter™ Premium activation.)
- It is found on Applications tab of the display menu.

Remote Display Access



PC17363—UN—16DEC13

Remote Display Access

- Remote Display Access (RDA) allows someone from a remote location to view an operating display.
- It is found on Applications tab of the display menu.

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Settings Manager



PC22543—UN—22APR16

Settings Manager

- Use Settings Manager to load, edit, or save configurations of machine and implement settings.
- It is found on Applications tab of the display menu.

Software Manager



PC15346—UN—11JUL13

Software Manager

- Use Software Manager to update software, activate features, and install onscreen help packages.
- It is found on System tab of the display menu.

StarFire™



PC17388—UN—15MAY14

StarFire

- The StarFire™ application is used to view StarFire™ Receivers. If more than one receiver is connected, select the desired receiver using the application.
- It is found on Applications tab of the display menu.

Users and Access



PC17262—UN—12JUL13

Users and Access

- Users and Access manages user profiles and locks users out of certain settings.
- It is found on System tab of the display menu.

Video



PC23956—UN—24MAR17

Video

- Use Video application to observe areas around the machine that are difficult to see from the operator's station.
- Video can be displayed when certain machine functions are performed, such as reversing.
- It is found on Applications tab of the display menu.

Wireless Settings



PC23092—UN—26SEP16

Wireless Settings

- Access wireless networks to connect to the internet, or create a wireless network to connect mobile devices to the machine.
- It is found on System tab of the display menu.

Work Monitor



PC15317—UN—16MAY13

Work Monitor

- Work Monitor displays averaged and totaled machine and operation-specific values.
- It is found on Applications tab of the display menu.

Work Setup



PC20415—UN—11MAY15

Work Setup

- Use Work Setup to set up operations when changing implements, fields, or applying a different product.
- Use Work Setup to set up and use ISOBUS Tasks provided by TC-GEO (task controller geo-based) AEF (Agricultural Industry Electronics Foundation) certified implements and John Deere pull-type

StarFire is a trademark of Deere & Company

sprayers. All totals provided by the ISOBUS implement, such as time, area, mass, and volume, are recorded in the ISOBUS task in the Work Totals application.
- It is found on Applications tab of the display menu.

Work Totals



PC21878—UN—24NOV15

Work Totals

- Work Totals records work data, including acres worked, average product rate, and total product applied.
- Work Totals application requires a 4200 or 4600.
- It is found on Applications tab of the display menu.

DX,PC,INTRO,OSAPPS-19-25APR18

AMS Applications Overview



PC15301—UN—19MAR13

AMS Applications Package

AMS Applications package is installed at factory, but requires an activation to enable functionality. These applications are installed and updated in packages separate from the Generation 4 Operating System.

AutoTrac™ Guidance



PC16676—UN—18MAR13

AutoTrac™ Guidance

- The AutoTrac™ Guidance application is used for steering machines through the field along guidance tracks. Steering can be done manually or automatically using AutoTrac™.
- It is found on Applications tab of the display menu.

AutoTrac™ Turn Automation



PC24721—UN—14SEP17

AutoTrac™ Turn Automation

- AutoTrac™ Turn Automation is a system which coordinates machine and implement functions during end turns.
- It is found on Applications tab of the display menu.

Overlap Control



PC20399—UN—16FEB15

Overlap Control

- Overlap Control automatically adjusts the header width setting as the combine moves over areas that have already been harvested.
- Overlap Control is only available on combines.
- It is found on Applications tab of the display menu.

Section Control



PC20399—UN—16FEB15

Section Control

- Section Control turns work point sections on and off automatically to reduce overlap and improve input management.
- Section Control is only available with compatible machines and implements.
- Section Control application requires a 4200 or 4600 with a CommandCenter™ Premium activation.
- It is found on Applications tab of the display menu.

Sharing



PC24722—UN—18SEP17

Sharing

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CommandCenter is a trademark of Deere & Company

- Use Sharing application to view infield data sharing settings.
- It is found on Applications tab of the display menu.

DX,PC,INTRO,AMSAPPS-19-25APR18

CommandCenter™ Activations

NOTE: Software activations are nontransferable if equipment is lost, stolen, or destroyed. It is recommended to insure machines at their full value, including software activations.

A CommandCenter™ Premium activation or a CommandCenter™ Automation activation is required to operate certain features, such as utilizing Section Control. It is also required to enable certain functions within applications, such as streaming work data wirelessly in the File Manager application to John Deere Operations Center.

CommandCenter™ Premium and CommandCenter™ Automation activations are not listed in the Software Manager application. The individual activations that are included within the CommandCenter™ Premium and CommandCenter™ Automation activations can be found by selecting Menu button > System tab > Software Manager application > Activations tab.

Contact your John Deere dealer to purchase a CommandCenter™ Premium or a CommandCenter™ Automation activation.

DX,PC,INTRO,CCPREMIUM-19-25APR18

Demo Activations

In Software Manager application, demo activations are available to try out features on the display. A blue light next to a feature indicates that demo is turned on.

Demo is available from the factory for 15 hr. of use. For example, AutoTrac™ demo only counts down when it is activated.

DX,PC,INTRO,DEMO-19-21DEC15

Display and Sound



PC16685—UN—18MAR13

Display and Sound

Display and Sound application adjusts display brightness and volume level.

If multiple displays are connected, use this application to configure which functions appear on each display.

If screen touches do not register in correct location, use Touchscreen Calibration to realign screen.

Navigate to Display and Sound

1. Select Menu.
2. Select System tab.
3. Select Display and Sound application.

DX,PC,DISP-19-21DEC15

Brightness

Brightness and Color Mode

- ***Auto Mode***

Auto Mode is recommended setting. This synchronizes display brightness with cab light switch. If cab lights are off, display is in Day Mode. If cab lights are on, display is in Night Mode.

- ***Day and Night Modes***



PC15319—UN—20MAY13

A—Day Mode
B—Night Mode

Select either mode to prevent display brightness from synchronizing with cab light switch.

NOTE: The mode selected does not adjust brightness of a second display. Adjust brightness of that display through its settings.

Brightness Settings



PC15320—UN—20MAY13

A—Day Settings
B—Night Settings

Select either settings button to display a popup page for corresponding brightness mode.

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AutoTrac is a trademark of Deere & Company



PC15321—UN—20MAY13

C—Display Brightness
D—Cab Brightness

Depending on mode selected with settings button, adjust display and cab brightness by using plus (+) and minus (-) buttons.

DX,PC,DISP,BRIGHT-19-07APR17

Sound



PC15322—UN—20MAY13

Display Volume

Change display volume by selecting increase (+) or decrease (-) buttons.

DX,PC,DISP,SOUND-19-21DEC15

Multiple Displays



PC15323—UN—20MAY13

Multiple Displays

Generation 4 CommandCenter™ may be configured to run with the following John Deere displays connected at corner post.

- GreenStar™ 2 1800 Display
- GreenStar™ 3 2630 Display
- 4640 Universal Display

Some applications, such as AutoTrac™, cannot run on both displays at the same time.

Activations do not transfer between displays. Second display must have its own activations to run AMS applications.

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GreenStar is a trademark of Deere & Company
AutoTrac is a trademark of Deere & Company



PC20416—UN—12MAY15

GS3 2630 Display

Installing a GS2, GS3, or Generation 4 Display

1. Ensure that key switch and CommandCenter™ are off.
2. Attach display harness to corner post connector and 26-pin display connector to back of display.
3. Turn on the key switch.
4. CommandCenter™ display searches for second display on implement CAN bus for approximately 60 seconds. If CommandCenter™ was previously in Single Display Mode, it displays a message stating, “Multiple Displays Detected.”
5. Select a configuration preset:

   Single Display

   - Do NOT use this option in this scenario. This mode is only used if second display is not installed.

   Multiple Display – Machine Only

   - Precision Ag Applications and ISOBUS implements only appear on second display, not CommandCenter™. Use this option when connected to an ISOBUS implement with Auxiliary Reconfigurable Control.

   Multiple – Implement Viewer

   - Precision Ag Applications appear on second display.
   - ISOBUS implements appear on CommandCenter™ or second display depending on the “Next VT display” setting of implement.

   NOTE: If ISOBUS implement does not have “Next VT display” function, implement appears on display that starts up first.

   Multiple Display – Precision Ag Applications

- Precision Ag Applications and SeedStar™ 4 HP Planter Applications appear on CommandCenter™.
- ISOBUS implements appear on second display or CommandCenter™ depending on the "Next VT display" setting of implement.

NOTE: If ISOBUS implement does not have “Next VT display” function, implement appears on display that starts up first.

Advanced Setup

- Manually set configurations.

6. Cycle key switch off and on to save settings.

When display settings are changed, corresponding changes must be made to the other display.

If either of these modes is selected:

Single Display

- Either disable GreenStar™, task controller, and implement bus virtual terminal (VT) on other display, or disconnect other display.

Multiple Display – Precision Ag Applications

- Disable GreenStar™ and task controller on other display.

To access multiple display settings on other GreenStar™ displays:

- 4640 Universal Display: Select Menu button > System tab > Display and Sound application > Multiple Display tab.
- GreenStar™ 3 2630: Select Menu button > Display button > Diagnostics softkey > Multiple Displays tab > Change Settings button.
- GreenStar™ 2 1800: Select Menu button > Display button > Settings softkey > Multiple Displays softkey.

Removing a GS2, GS3, or Generation 4 Display

1. Ensure that key switch and CommandCenter™ are off.
2. Detach display harness from the 26-pin display connector at back of display.
3. Turn on the key switch.
4. CommandCenter™ display searches for second display on Implement CAN bus for approximately 2—3 minutes. If CommandCenter™ was previously in one of the Multiple Display Modes, it displays a message stating “Second Display Not Found.”
5. Cycle key switch off and on to save settings.

Removing a Third-Party Display

1. Ensure that key switch and CommandCenter™ are off.
2. Detach display harness from third-party display.
3. Turn on the key switch.
4. CommandCenter™ display searches for second display on Implement CAN bus for approximately 2—3 minutes. If CommandCenter™ was previously in one of the Multiple Display Modes, it displays a message stating “Second Display Not Found.” If the “Second Display Not Found” message does not appear after 3 minutes, skip to step 5.
5. Ensure CommandCenter™ is in Single Display Mode and third-party display is unplugged.
6. Cycle key switch off and on to save settings.

Operating AutoTrac™ on CommandCenter™

NOTE: Generation 4 OS software updates 2015-1 (8.12.2500-17) and newer disable Precision Ag Applications when a secondary GreenStar™ display is detected. Disconnect GreenStar™ display inside cab to operate Precision Ag functions on Generation 4 CommandCenter™ with these software versions.

After installing a GS3 2630 Display, AutoTrac™ defaults to that display. Follow these instructions to run AutoTrac™ on CommandCenter™.

NOTE: After procedure, GS3 2630 Display will not run any GreenStar™ applications, including Section Control.

1. Ensure CommandCenter™ is in Single Display Mode and GS3 2630 Display is unplugged. Turn key switch off.
2. Plug in GS3 2630 Display and turn on the key switch.
3. When CommandCenter™ boots up, select Multiple – Compatibility Mode. Reboot display.
4. On GS3 2630 Display, select Menu button > Display button > Diagnostics softkey > Multiple Displays tab. Turn off GreenStar™ application. Depending on configuration, display may reboot.
5. On CommandCenter™, select Display and Sound application > Multiple Displays tab. Turn on Precision Ag Applications. Reboot display.

DX,PC,DISP,MULTI-19-30APR18

Display Calibration

Touch Screen Calibration may be required if screen does not register a touch in a desired location. Touch screen is factory calibrated and should not need to be calibrated under normal service. If calibration does not resolve issue, contact a John Deere dealer.

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1. Select Begin Calibration.
2. A large "X" and instructions are provided to lead operators through calibration process.
3. Each time “X” is pressed, instructions change and “X” moves to another area of screen.

NOTE: If touch screen malfunctions, a USB mouse may be used. Connect mouse to display’s USB port.

DX,PC,DISP,CAL-19-21DEC15

Date and Time



PC15314—UN—15MAY13

Date and Time

Information from Date and Time application is used for several important functions on system. These include error logging, activations, and data recording.

Date and time are set automatically if a GPS receiver is connected and receiving valid signal. In this case, only set time zone.

Current date and time can be found at any time by selecting Status Center at top of main run page.

NOTE: Date and Time setting affects how Guidance and Documentation data are filtered on display and desktop software.

Navigate to Date and Time

1. Select Menu.
2. Select System tab.
3. Select Date and Time application.

DX,PC,DATE-19-21DEC15

Change Current Date



PC15315—UN—15MAY13

A—Date Set by User
B—Date Determined by GPS

Date can only be changed if GPS is not connected or GPS signal is not available. Otherwise, GPS signal determines date.

Date Format does not depend on GPS signal, and can be changed at any time.

1. Select day, month, or year.
2. Use keypad to enter correct value.
3. Select Done to apply changes or Cancel to return to previous page without applying changes.

Date Format

1. Select Date Format box.
2. Select desired date format from list.
3. Select Done to apply changes or Cancel to return to the previous page without applying changes.

DX,PC,DATE,DATE-19-21DEC15

Change Current Time



PC15316—UN—15MAY13

A—Time Set by User
B—Time Determined by GPS

Current Time can only be changed if GPS is not connected or GPS signal is not available. Otherwise, GPS signal determines time.

Time Zone and Time Format do not depend on GPS signal, and can be changed at any time.

1. Select hour or minute.
2. Use keypad to enter correct value.
3. Select Done to apply changes or Cancel to return to previous page without applying changes.

Time Zone

1. Select a continent or ocean and select Next.
2. Select a country and select Next.
3. Select a time zone and select Next.
4. Confirm selected time zone and select OK.

Time Format

Use radio button to select 12 Hour or 24 Hour time format.

DX,PC,DATE,TIME-19-21DEC15

Language and Units



PC16677—UN—18MAR13

Language and Units

Language and Units is used to change Language, Number Format, and Units of Measurement.

Different settings can be created for both the display and for controllers that are displayed in ISOBUS VT. Select either tab to change settings.

Navigate to Language and Units

1. Select Menu.
2. Select System tab.
3. Select Language and Units application.

DX,PC,LANG-19-21DEC15

Language and Units Settings

Display

Select Language, Number Format, and Units of Measurement from list boxes.

ISOBUS VT

It is possible for controllers that display in ISOBUS VT to have different units of measure than rest of display. Remove check from *Use Same Units of Measure as Display* to enable list boxes for:

- Number Format
- Distance
- Area
- Volume
- Mass
- Temperature
- Pressure
- Force

Saving Settings

After new settings are selected, select Save button. Display must reboot to apply changes.

DX,PC,LANG,SETTINGS-19-21DEC15

Software Manager



PC15346—UN—11JUL13

Software Manager

Use Software Manager to update software, activate features, and find software version details.

Navigate to Software Manager

1. Select Menu.
2. Select System tab.
3. Select Software Manager application.

Software Packages

Generation 4 display software and help files are organized into packages. Each package is listed individually on Installations and Updates tab and Version Information tab.

Generation 4 Operating System



PC23900—UN—17MAR17

- Contains display operating system and basic applications.

Generation 4 Operating System Help



PC23901—UN—17MAR17

- Contains help files for display applications.

AMS Applications



PC23902—UN—17MAR17

- Contains display software.

Machine Applications



PC23903—UN—17MAR17

- Contains Machine software. A John Deere dealer

with Service ADVISOR™ is required to install package.

Machine Applications Help



PC23904—UN—17MAR17

- Contains help files for machine applications. Package may be installed without Service ADVISOR™.

NOTE: Onscreen Help packages include each language that the display supports.

DX,PC,SOFT-19-07APR17

Update Display Software

Determine Software Versions on Display

Version numbers for all installed software packages are available in Version Information tab in Software Manager.

Download Software Updates



PC15348—UN—11JUL13

USB Drive

Software updates are available for download from:

https://my.deere.com/software-downloads/software-manager/

The following items are available:

- Software release notes
- Software Manager utility used to download software to USB drive
- Instructions for using Software Manager utility

Once USB drive has latest software, take it to machine to install update.

Install Software Updates

USB Drive

1. Insert USB drive into upper USB port next to accessory outlet.



PC23932—UN—21MAR17

A—Install Software Button

2. When "USB Drive Options" page is displayed, select Install Software button (A). This displays the Installations & Updates tab of Software Manager.
3. Only software packages that are newer than what is currently installed are displayed. All display software packages are selected by default.
4. Select Install button. If an update does not start, follow the onscreen messages to resolve conflicts.

CAUTION: During software installation:

All applications will be shut down.

No system messages will be displayed.

To prevent injury, ensure that the machine is in Park and maintain electrical power throughout the installation process.

Do not remove USB drive.



PC23933—UN—21MAR17

A—Progress Indicator
B—Install Successful

5. A progress indicator (A) displays percentage of each package that has been installed. A green check mark (B) is displayed when package installs successfully.
6. Message displays when software update is finished. Some software packages require a reboot to finish installation. Select Reboot button to restart display.
7. Remove USB drive and take back to computer. Run Software Manager Utility to upload return files.

NOTE: Return files contain software version information and are used to assist dealers with supporting display and machine.

Online Updates

1. On Installation and Updates tab, select Check for Updates Online. The display searches for available updates.
2. Only software packages that are newer than what is currently installed are displayed. All packages are selected by default.

Service ADVISOR is a trademark of Deere & Company

3. Select Download button. If an update does not start, follow the onscreen messages to resolve conflicts.
4. A progress indicator (A) displays percentage of each package that is being downloaded. A green check mark (B) is displayed when package downloads successfully.
5. Select Install button to begin installation of downloaded software packages.

CAUTION: During software installation:

All applications will be shut down.

No system messages will be displayed.

To prevent injury, ensure the machine is in Park and maintain electrical power throughout the installation process.

6. Message displays when software update is finished. Some software packages require a reboot to finish installation. Select Reboot button to restart display.

Troubleshooting

When a software package fails to install, system rolls back all software to version before update started.

Record error message if software update fails. Remove files from USB drive, and reload software update to USB drive. Repeat software installation process.

If software update continues to fail, contact a John Deere dealer.

DX,PC,SOFT,UPDATE-19-25OCT17

Activations

Use this tab to manage activations on the display.



PC23905—UN—17MAR17

Details Button

StellarSupport.com requires the display serial number, challenge code, and may require a confirmation code in order to generate a code. Select Details button to find this information.

A single code may include multiple features, but it can perform only one type of action (activation or deactivation). For example, one code may activate three features, while a separate code would be needed to deactivate two features.

Enter Activation or Deactivation Code



PC23906—UN—17MAR17

Enter Code Button

1. Select Enter Code button.
2. Using keyboard, enter activation or deactivation code. Select OK button.
3. Record confirmation code, and enter code at StellarSupport.com.

Online Activations



PC24896—UN—23OCT17

Use Online Activations to view or check for available activations using a wireless connection. Activations and subscriptions are generated by StellarSupport.com. The display checks for activations automatically when powered on.

DX,PC,SOFT,ACTIVATE-19-25OCT17

Service ADVISOR™ Remote



PC16682—UN—18MAR13

ISOBUS VT

Service ADVISOR™ Remote is available in the ISOBUS VT application.



PC15293—UN—18MAR13

ISOBUS VT Menu

1. Select Menu button within ISOBUS VT.



PC17281—UN—10SEP13

Remote Software Updates

2. Select Remote Software Updates.

Theory of Operation

Service ADVISOR™ is a diagnostic tool used by John

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Deere dealers to perform diagnostics as well as updates to machine settings and software. Dealers can access diagnostic trouble codes and diagnostic addresses, create readings and recordings, and program controllers. This technology consists of both software and hardware. Technicians attend a minimum of 8 hours of training to become certified in utilizing this tool.

Service ADVISOR™ Remote (SAR) is a function of Service ADVISOR™ that allows the dealer technician to connect to a SAR enabled machine via the JDLink™ network to remotely access diagnostic trouble code information and record diagnostic data, as well as to remotely program controllers on SAR-enabled machines.

Similar to software (payload) updates in the computer industry, SAR enables John Deere to remotely deliver updated software via the JDLink™ hardware onboard. Remote programming gives John Deere the ability to update software to enhance the performance of the machine. This capability can be used to reprogram most machine controllers. The user actively participates with the dealer in this process by both downloading the software update and installing the software update.

NOTE: Some vehicle controllers may not be compatible for SAR reprogramming.

Vehicle Compatibility

NOTE: If equipped, Users and Access application provides capability to unlock, partially lock, or lock operator access to specific components. This includes the ability to download and install software updates. Please refer to Users and Access for more details.

For a current list of approved vehicles, please contact a John Deere dealer or visit StellarSupport.com.

DX,PC,SAR-19-07APR17

Vehicle Reprogramming



PC20419—UN—13NOV15

Software Update Available

A—Accept Button
B—Cancel Button

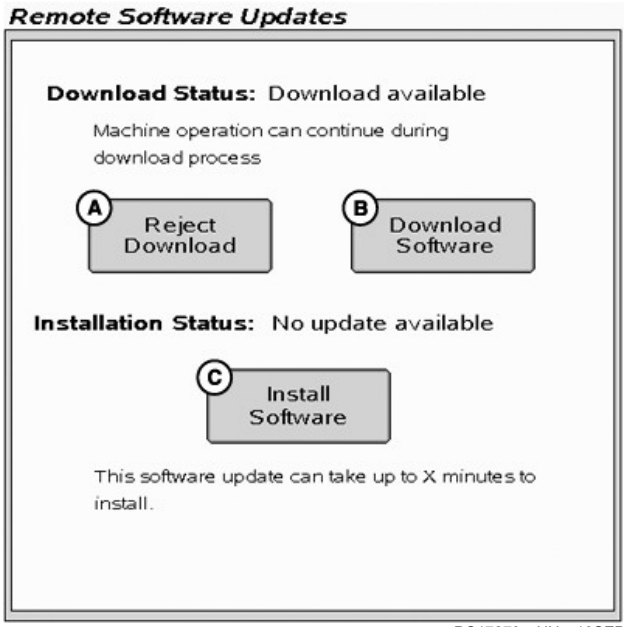
With Service ADVISOR™ Remote (SAR), dealers can send new software to a machine to update control units. Once the dealer sends the software, a message appears on the display stating that there is new software available. Press Accept button (A) to display software updates page.

If the Cancel button (B) is selected, access the page by selecting Remote Software Updates from ISOBUS VT menu.

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Service ADVISOR is a trademark of Deere & Company

Download Updates



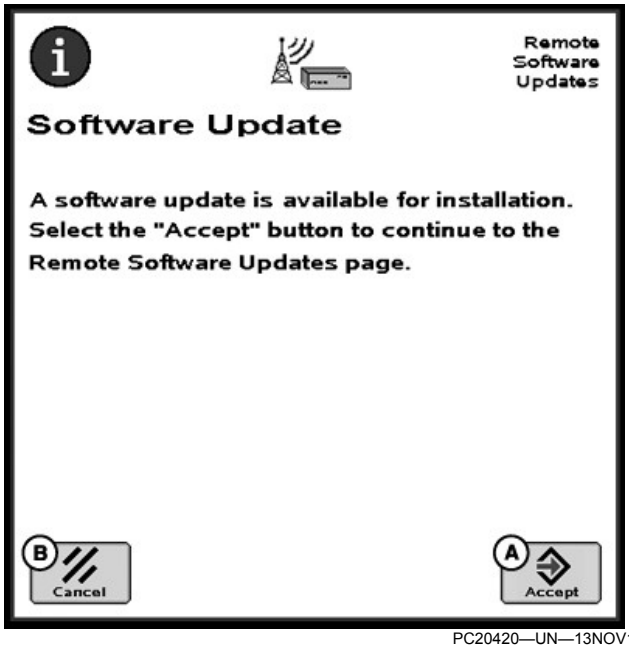
PC17279—UN—10SEP13

Remote Software Updates

A—Reject Download Button
B—Download Software Button
C—Install Software Button

On the Remote Software Updates page, the operator can either reject (A) or download (B) the new software. Press the Download Software button to start the download process. This process continues in the background and normal machine operation can continue.

Install Updates



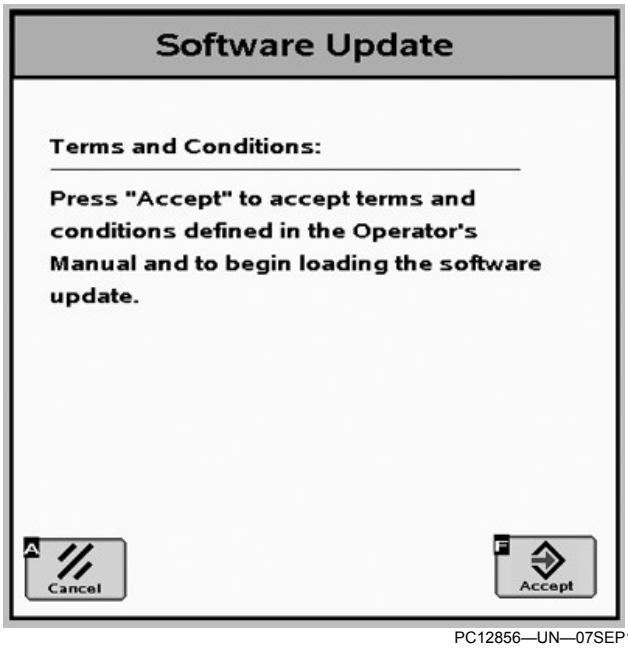
PC20420—UN—13NOV15

Update Ready for Install

A—Accept Button
B—Cancel Button

Once the software has been downloaded and it is ready for installation, a message appears on the display. Press the Accept button (A) to go to the Remote Software Updates page.

Software installation can take up to 40 minutes. Press the Cancel button (B) to update the software at a later time.



PC12856—UN—07SEP10

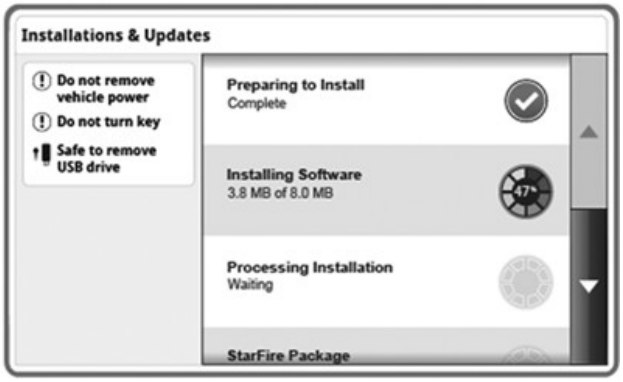


PC12672—UN—28JUN10

On the Remote Software Updates page, press the Install Software button to begin the installation process.

Once prompted, accept the terms and conditions and then follow the on-screen instructions.

CAUTION: Some vehicle functions, including lights, may become inoperable during reprogramming. To avoid injury, ensure that the vehicle is in a safe location and configuration before reprogramming. Do not reprogram near public roadways or in active work sites.



PC17630—UN—10SEP13

If a Generation 4 Display update is included with the software download, the display is updated first. When complete, a message appears stating "Software successfully installed" and the display reboots.

Once display is updated, control unit update begins.



PC12857—UN—07SEP10



PC13582—UN—09MAY11

If there is a problem during the install process, the system tries a second install. If the second attempt fails, contact your John Deere dealer.

DX,PC,SAR,VEHICLE-19-19APR18

Troubleshooting — Reprogramming

Symptom	Problem	Solution
Accessory Power Lost	Engine started or key turned off.	Do not start engine or remove power while software updates are being installed. Turn key off and return to ON position.

Symptom	Problem	Solution
Voltage Low	The system voltage is too low to proceed with the software installation.	Turn off or remove accessories that are unnecessary. Check battery voltage and recharge battery if necessary.
Communication Fault	The software installation cannot be completed because of a communications fault.	Turn key off and then back to on. Then retry software installation. Contact a John Deere dealer if communication cannot be established.
Remote Software Updates button is not on display. *NOTE: Remote Software Updates should be available at all times, whether there is a payload or not.*	Cannot access Remote Software Updates page on the display.	Check harness and connections to MTG.

DX,PC,SAR,TROUBLE-19-19APR18

File Manager



PC16671—UN—18MAR13

File Manager

File Manager application is used to transfer data to and from the display. Data can either be transferred wirelessly with John Deere Operations Center, or use a USB drive to transfer data between displays or compatible desktop software.

It is important to back up data to a USB drive periodically.

Display internal memory is intended to have enough capacity to store all data from a machine per season. A message appears when 95% of memory is used. Data should be exported and deleted before memory used exceeds 95%.

Navigate to File Manager

1. Select Menu.
2. Select System tab.
3. Select File Manager Application.

Factory Data Reset



PC17398—UN—22OCT14

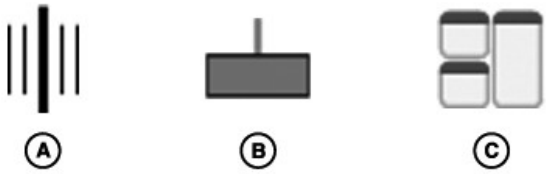
Settings

Select settings at the top of File Manager application to open Factory Data Reset.

Process removes all user data from display and cannot be undone. User data includes setup and documentation data, guidance information, totals, and custom run page layouts. Language and regional settings, and activations are not reset. A reboot is required after reset.

Perform a Factory Data Reset before selling the machine.

Data Types



PC24718—UN—14SEP17

A—Guidance Tracks
B—Implement Profiles
C—Custom Run Pages

- Guidance tracks (A) include guidance lines and associated client, farm, and field names.
- Implement profiles (B) can be transferred between

Generation 4 Displays. This includes profiles saved to the display for implements without a controller.

NOTE: Connection type, work recording, operation, and rate controller are not imported with implement profiles.

- Custom run pages (C) can be transferred between Generation 4 Displays that are the same size.

NOTE: Imported run pages are available on the All Run Pages tab in Layout Manager.

Some run page modules reset to default settings when imported.

Run page modules created for ISOBUS VT implement control units appear as unavailable if control unit is not connected to machine.



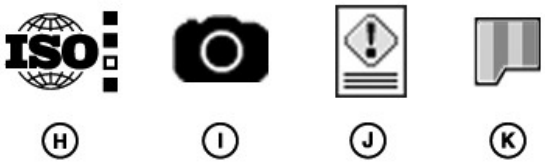
PC24719—UN—14SEP17

D—Work Data
E—Boundaries
F—Setup Data
G—Prescriptions

- Work data (D) includes mapping and totals data. It can be uploaded to John Deere Operations Center, or unloaded into compatible desktop software. When importing work data, only mapping data is transferred. Work totals cannot be imported.

NOTE: Exporting work data requires a 4200 or 4600 with a CommandCenter™ Premium or a CommandCenter™ Automation activation.

- Boundaries (E) are configured using Fields and Boundaries application.
- Setup data (F) includes client, farm, and field names, crop varieties, and products.
- Prescriptions (G) are configured using Work Setup application.



PC24720—UN—14SEP17

H—ISOBUS Tasks
I—Screenshots
J—Error Logs
K—Variety Locator

- ISOBUS tasks (H) are configured using ISOBUS Tasks application.

NOTE: ISOBUS Tasks file size limit is 10 MB.

- Screenshots (I) copy the image displayed on the screen. (Refer to Capture Screenshots for instructions.)
- Error logs (J) are automatically generated by the display and can be used by John Deere to troubleshoot issues.
- Variety locator (K) files are configured using John Deere Operations Center or Apex™.

Data Sync



PC21844—UN—16NOV15

Data Sync

Data Sync is used to manually or automatically send work data directly to John Deere Operations Center. Data is transferred using cellular signal through the modular telematics gateway (MTG).

Data Sync Preference

To automatically send work data, select “Automatically Sync Work Data” checkbox. Data is sent to John Deere Operations Center when MTG is in cellular coverage. If cellular coverage is not available, work data is stored on the display. Data is sent when cellular signal is reacquired and MTG is able to make a call.

Data Triggers

Even though work data is automatically sent from the display to John Deere Operations Center periodically, files cannot be viewed in the Operations Center until one of these triggers occur:

- Start New Work, or change client, farm, or field.
- Lose cellular communication between display and John Deere Operations Center for more than 30 minutes.
- Turn key off, and then turn key on within 30 minutes.
- Turn key off for more than 30 minutes.

Import Data

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Apex is a trademark of Deere & Company



PC20405—UN—30APR15

Import Data

Select import method:

- Import from USB Drive – Select folders on USB drive that contain data to be imported.
- Import Received Files – Import setup, work data, and prescription files from John Deere Operations Center.

After setup files and prescriptions are imported to the display, use Work Setup to apply the file. Reference help files on John Deere Operations Center for how to create and send setup files to the Generation 4 Display.

Compatibility

Data can be transferred from another Generation 4 Display, GreenStar™ 3 2630 Display, compatible desktop software, or John Deere Operations Center.

John Deere Operations Center does not support the ability to view, send, or receive run pages. If a setup file only contains run pages, the file displays as invalid in John Deere Operations Center. If a setup file contains guidance lines or boundaries, and run pages, the setup file loads correctly, though run pages are not viewable.

NOTE: Update Apex™ or third-party desktop application if there are issues with transferring data.

Choose GS3 2630 card format when exporting from Apex™. To use guidance lines from other GreenStar™ displays, unload guidance lines into Apex™ and then export in GS3 2630 card format.

Data Conflicts

When necessary, imported client, farm, and field names are changed. For example, "Field1" is renamed "Field1 (1)".

If guidance lines are in the same field and created with the same tracking method, the display handles the following conflicts.

Different Name, Same Line

- If lines are the same, name of guidance line on display is replaced by name on USB drive.

Same Name, Different Line

- If there are two different lines with the same name, line on USB drive is renamed when imported. For example, "Track1" is renamed "Track1(1)".

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Apex is a trademark of Deere & Company

NOTE: A file may fail to import for multiple reasons. To determine which file is causing problems, remove individual files from USB drive and attempt to import remaining files.

Export Data



PC20406—UN—30APR15

Export Data

Select export method to transfer desired data types.

- Select Custom Export to transfer run pages and field-specific work data and guidance lines.
- Select Export All Data to quickly transfer all work data, guidance lines, and run pages using default settings.
- Select Diagnostic Data to transfer screenshots and error log files.

Delete Data



PC20407—UN—30APR15

Delete Data

Delete data removes selected data types from the display.

- Select Custom Delete to remove work data, guidance lines, prescriptions, and run pages.
- Select Clear Diagnostic Data to remove screenshots and error log files.

DX,PC,FILE-19-25APR18

USB Drive

USB Drive Requirements for John Deere Displays

- Format - Windows FAT or FAT32. This display does not recognize NTFS format.
- Capacity - Recommended capacity is 8 to 32 GB.
- Connectivity - USB 2.0
- Maximum Dimensions - 9.2 mm (3/8 in) thick by 21.7 mm (7/8 in) wide

Best Practices

- After inserting USB drive, wait 10 seconds. Large USB drives may take time to be recognized.
- Use a USB drive that is 4 GB or larger, so multiple backups can be stored.
- Clean all files off the USB drive that are not associated with John Deere displays.

Check Display Hardware tab in Diagnostics Center application to determine if display recognizes USB drive.

DX,PC,FILE,USB-19-03OCT17

Capture Screen Shots



PC17263—UN—15JUL13

A—Screen Shot Area

Select area highlighted in top left corner of screen. Press and hold until screen flashes and display makes camera shutter sound.

Insert USB drive and select Export Data to transfer screen shots to drive.

DX,PC,FILE,SCREENSHOT-19-22DEC15

Diagnostics Center



PC17272—UN—17JUL13

Diagnostics Center

Diagnostics Center is the one place to find diagnostics for the entire system. Select one of the tabs for more information.

System Diagnostics

- View diagnostics information for machine, implement, and display applications.

Controller Diagnostics

- Access diagnostic addresses, diagnostic trouble codes, and information specific to each device connected on CAN bus.

Trouble Codes

- View all active or stored diagnostic trouble codes.

Display Hardware

- View diagnostic readings for processor, monitor, and display.

CAN Bus Info

- View diagnostic information for each CAN bus.

Network

- View MTG diagnostic readings.

DataSync

- View Sharing application and data transfer diagnostic information.

Navigate to Diagnostics Center

1. Select Menu.
2. Select System tab.
3. Select Diagnostics Center application.

DX,PC,DIAG-19-25OCT17

Controller Diagnostics

Controller Diagnostics displays the following information for controllers connected on CAN Bus.

Device

- Each device in list is identified by Device ID, CAN Address, and CAN Network location.

Codes

- Indicates if device has diagnostic trouble codes.

Message Count

- Number of CAN messages display has received from controller. Use zero button at bottom of page to reset message count for all devices.

Viewing and Sorting

Select button next to **View by** to change way controllers are displayed. Available views are:

All Devices

- All controllers connected to display are shown.

Implement Bus Devices

- Only controllers on Implement CAN Bus are displayed.

Vehicle Bus Devices

- Only controllers on Vehicle CAN Bus are displayed.

Select button next to **Sort by** to arrange list according to these filters.

Device

- List sorted by device ID.

Has Codes

- List sorted by if device has diagnostic trouble codes.

DX,PC,DIAG,CONTROLLER-19-22DEC15

Diagnostic Information

Select a controller from Controller Diagnostics list for more detailed information.

NOTE: Display is set to Diagnostic Mode when a controller is selected. Diagnostic Mode is removed when controller page is closed.

Diagnostic Addresses

IMPORTANT: Changing settings in Diagnostic Addresses may damage machine or implement controllers. Follow instructions, and use caution when changing address values.

Controllers have addresses that store values for different settings. Each Address is identified by an Address Number and Type. Data addresses can only be viewed (for example, software version information) while Input addresses can be edited (for example, calibration settings).

Diagnostic Trouble Codes

Current and stored codes for the selected controller are displayed. Select a code from list to view code details.

Controller Information

Controller Information displays detailed specifications and identification information from controller. This information is useful for ISOBUS diagnostics.

DX,PC,DIAG,INFO-19-22DEC15

Hide Diagnostic Center



PC15331—UN—08JUL13

Hide Diagnostics Center

Display is set to Diagnostic Mode once a controller is selected. Select Hide Diagnostic Center to minimize application and return to main page.

Hide button is useful for accessing another part of display during a calibration procedure. To return to the same diagnostic page, select Diagnostic Center application from menu.

NOTE: Leaving display in Diagnostic Mode is not recommended, because it can negatively affect performance.

Remove Diagnostic Mode by closing controller page.

DX,PC,DIAG,HIDE-19-22DEC15

Diagnostic Trouble Codes



PC15332—UN—08JUL13

A—Refresh Button
B—Clear Codes Button

Diagnostic Trouble Codes tab displays all current and stored codes that have occurred on the system.

Select Refresh button (A) to clear, and then retrieve all codes.

Select Clear Codes button (B) to remove all codes from display.

Viewing and Sorting



PC15333—UN—09JUL13

Code Types

A—Stop Alert
B—Service Alert
C—Info Alert

Select button next to **View by** to change the way codes are displayed. Available views are:

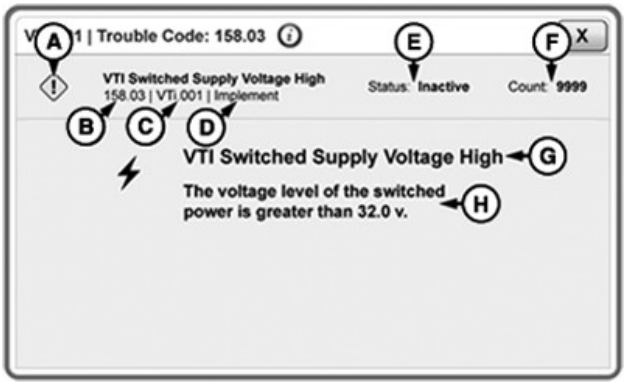
Code

- View by “Code” lists all codes on display. Code Type (A—C), Details, Status, and Count are all displayed. Select a code from list to view Code Details.

Device

- View by “Device” lists all controllers on CAN Bus. Device ID, CAN Network, and if device has codes are all displayed. Select a controller in list to view Device Codes.

Code Details



PC15334—UN—09JUL13

Code Details

A—Diagnostic Trouble Code Type
B—Diagnostic Trouble Code Number
C—Device ID
D—CAN Bus Network
E—Code Status
F—Count
G—Diagnostic Trouble Code
H—Diagnostic Trouble Code Description

Select a diagnostic trouble code to view code details.

DX,PC,DIAG,DTC-19-07APR17

Display Hardware

The following information is available in Display Hardware:

Hardware

- Displays and Processor
  - Part Numbers
  - Serial Numbers
  - Operational Hours
- USB Presence

Electrical

- Unswitched Voltage
- Switched Voltage
- Implement and Vehicle CAN
  - CAN High
  - CAN Low

NOTE: Instantaneous CAN bus voltage averaged each second.

Other

NOTE: Machine must be equipped to receive certain information.

- Radar Input Status
- Radar Frequency
- Implement Switch Status

DX,PC,DIAG,READINGS-19-07APR17

CAN Bus Information

CAN Bus Information tab displays status of communication between the controllers on CAN Bus. Vehicle CAN Bus connects controllers such as engine, hydraulics, and transmission. Implement CAN Bus connects controllers such as StarFire™ receiver, second ISOBUS display, and ISOBUS implements.



PC15335—UN—09JUL13

A—Green Indicator, Normal Range
B—Yellow Indicator, Out of Range

Some values display a green indicator or a yellow indicator with an exclamation point. Depending on machine and implement configuration, yellow might be expected.

- Green Indicator (A) — Value within normal range.
- Yellow Indicator (B) — Value out of normal range.

DX,PC,DIAG,CANINFO-19-07APR17

CAN Bus Values

Network Status

Active

- System is working as expected. In addition to display, at least one controller is connected and communicating on CAN Bus.

Inactive

- Display is not communicating with any other controllers on CAN Bus. If display is only controller on CAN Bus, Total Message Count increases, but Network Status is inactive.

Total Message Count

Total message count is number of messages sent over CAN Bus. When machine is running, this value counts up continuously since there are always messages sent on CAN Bus.

CAN High and CAN Low Voltage

Peak voltage is highest average voltage that has occurred since last cold boot. Voltage measurements are averaged for each second. Peak CAN High and

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Peak CAN Low voltages normally range between 1.8 and 3.3 Volts.

NOTE: A cold boot occurs after display has been off for 24 hours or after unswitched power has been disconnected from display.

Bus Utilization

Information on CAN Bus is sent in messages between controllers. The John Deere implement CAN Bus is running at a baud rate of 250 kbd, meaning it can switch power up to 256,000 times per second to transmit messages. This is a Bus utilization of 100%.

If a controller, such as an implement, is not running as expected, a Bus utilization of 45% or higher could be a reason for the issue. Some devices cannot send and receive all necessary messages due to high Bus load.

NOTE: Some ISOBUS implements do not work with Bus loads higher than 25%.

A working StarFire™ Receiver causes a Bus load of about 5—7%.

Unplugging implements or GPS receivers can reduce Bus utilization.

Baud Rate

Baud Rate indicates how fast the Bus is working. ISOBUS and John Deere implement Bus are running at a rate of 250 kbd. Any controller connected to this system must work at 250 kbd, otherwise it will not function properly.

CAN Bus State and Error Counts

Four CAN Bus states are possible:

- Active – CAN Bus is running without any problems.
- Passive – Passive errors have occurred.
- Warn – Bus Warn errors have occurred.
- Off – Bus Off errors have occurred.

If one of these errors occurs, display records number of times it happens.

Passive Error Count

- If value counts up higher than zero, a controller on CAN Bus did not receive all messages. Important information might have been lost. This is most likely due to high CAN Bus Utilization.

BUS Warn Count

- If value counts up higher than zero, a controller on CAN Bus has issues.

BUS Off Count

- If value counts up higher than zero, a controller on CAN Bus has issues. It missed a certain number of messages and does not receive messages anymore. Important information has been lost. It most likely occurs in combination with high CAN Bus Utilization.

Overrun Error Count

- Overrun Error Count indicates that applications or controllers on CAN Bus receive messages faster than they can process them. This results in missing messages and malfunction of the system. It most likely occurs in combination with high CAN Bus Utilization.

DX,PC,DIAG,CANVALUES-19-22DEC15

Network

Network tab displays diagnostic readings for machines that have a modular telematics gateway (MTG). MTG is one of the main components that enable John Deere telematics solutions, such as JDLink™, Service ADVISOR™ Remote, and John Deere Remote Display Access (RDA).

MTG contains firmware, a cellular modem, and SIM device. It sends and receives data and messages over cellular networks.

RDA requires an uninterrupted cellular connection to function. JDLink™ does not require an uninterrupted cellular connection because the MTG can store up to 1000 hours of data.

DX,PC,DIAG,NETWORK-19-21OCT16

DataSync

DataSync tab displays diagnostics readings for the Sharing application and data transfer.

Shared Work ID is the unique number of the work group the machine is assigned to. Each member of the work group shares the work ID.

Team Client, Team Farm, and Team Field are the names of the client, farm, and field associated with the current work group. Use Sharing application to make changes to these settings.

DX,PC,DIAG,DATASYNC-19-23OCT17

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Service ADVISOR is a trademark of Deere & Company

Users and Access



PC17262—UN—12JUL13

Users and Access

Users and Access manages user profile settings to lock users out of certain features.

User Profiles tab

- Change display profile and set PIN for administrator access.

Access Groups tab

- Store display features that are locked.

Navigate to Users and Access

1. Select Menu.
2. Select System tab.
3. Select Users and Access application.

DX,PC,USERS-19-22DEC15

User Profiles



PC17265—UN—15JUL13

A—Administrator Profile
B—Operator Profile

Display can be set to one of two profiles, Administrator or Operator. The active profile is displayed above profile list.

Administrator Profile (A)

Administrator profile always set to Full Access Group. It allows unlimited access of all features, and ability to lock and unlock features in Operator Profile. A PIN can be set to lock users out of the Administrator Profile.

Operator Profile (B)

Operator profile always set to Limited Access Group. It is restricted to only features it is given access to. Operator Profile must be active profile and Administrator Profile must have a PIN for features to be locked.

Change Active Profile



PC17266—UN—15JUL13

A—Change Profile Button
B—Edit Button
C—View Button

Select Change Profile button (A) and select profile from list.

NOTE: If a PIN has been created for the administrator profile, it must be entered when switching from Operator Profile to Administrator Profile.

Add/Change PIN

Select Edit button (B) for Administrator Profile. Select Add/Change PIN button.

DX,PC,USERS,PROFILES-19-07APR17

Access Groups

Access Groups store display features users have access to. Full Access group is able to use all features on display, while Limited Access group can be restricted to only certain features.

NOTE: Full Access Group can not be edited.

Limited Access groups can only be edited if Administrator Profile is Active Profile.



PC17267—UN—15JUL13

A—View Button
B—Edit Group Button

Select View button (A) to display Access Group Summary. Select Edit Group button (B) to make changes to Access Group.

Edit Access Group



PC17268—UN—15JUL13

A—Unlock Icon
B—Lock Icon

For each application listed, “None Locked” is displayed if no features are locked. When features are locked, they

are listed under the application name and icon changes to locked.

Select an application to highlight it and select Edit button.

Edit Access Rights page displays a list of features that can be locked or unlocked by toggling lock/unlock switch. Save changes by closing page.

DX,PC,USERS,GROUPS-19-07APR17

Layout Manager



PC16678—UN—18MAR13

Layout Manager

Use Layout Manager to create and modify run pages and shortcut bar so important information and functions can be accessed from the main page.

Run pages are made of "modules" or blocks that contain information and buttons. Modules can be added, removed, and rearranged on a run page.

Unlimited run pages can be created and saved. Only one Run Page Set with up to ten run pages can be created.

Custom run pages can be imported from another Generation 4 Display that is the same size. Imported run pages are available in All Run Pages.

Navigate to Layout Manager

1. Select Menu.
2. Select Applications tab.
3. Select Layout Manager application.

DX,PC,LAYOUT-19-22DEC15

Active Set



PC15336—UN—10JUL13

Active Set

Active Set is a collection of up to ten run pages that are grouped together for an operation (i.e. planting or tillage). Only pages in Active Set appear when cycling through run pages on main page.

Select Active Set to display Edit Run Page Set page.

Add Run Page to Active Set



PC15341—UN—10JUL13

Add Run Page Button

Select Add Run Page button to display a list of run pages that can be added to the set. Choose one of the run pages and select OK.

Edit Run Pages in Active Set



PC15338—UN—10JUL13

A—Edit Button
B—Duplicate Button
C—Up Button
D—Down Button
E—Remove Button

Select one of the run pages to show a row of buttons for editing that run page.

Select Edit button (A) to change the modules on run page.

Select Duplicate button (B) to create a new run page with same modules.

Select Up and Down buttons (C and D) to change order of run pages. Run page order is used when cycling through pages on main page.

Select Remove button (E) to delete run page from Active Set. Run page is still in All Run Pages list, just no longer in Active Set.

NOTE: Remove button is not shown if only one run page is in Active Set.

DX,PC,LAYOUT,ACTIVESET-19-07APR17

Shortcut Bar



PC17276—UN—13AUG13

A—Shortcut Softkeys

Shortcut bar is a collection of shortcut softkeys that display status information and provide quick access to application functions.

Select Default Shortcut Bar to Edit the Shortcut Bar.

Edit Shortcut Bar



PC17386—UN—15MAY14



PC17387—UN—15MAY14

A—Add Button
B—Move Shortcut Icon
C—Remove Shortcut Button

Shortcuts can be added, removed, and rearranged on the shortcut bar.

NOTE: The same shortcut can only be placed on the shortcut bar once.

Select Add Shortcut button (A) and choose application with appropriate content. Applications without available shortcuts are grayed out. From list, find shortcut that performs desired function and select Add button.

Once added to shortcut bar, select shortcut to highlight it. Press and slide shortcut (B) to move it to an open area.

To remove a shortcut, select shortcut to highlight it and select Remove button (C).

DX,PC,LAYOUT,SHORTCUTBAR-19-07APR17

All Run Pages

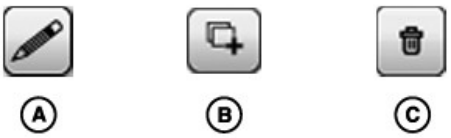


PC15340—UN—10JUL13

All Run Pages

All Run Pages tab displays every run page that has been created on display. These include current run pages that are in Active Set, as well as run pages that will be used in future operations.

Edit Run Page



PC15339—UN—10JUL13

A—Edit Button
B—Duplicate Button
C—Remove Button

Select one of the run pages to show a row of buttons for editing that run page.

Select Edit button (A) to change the modules on run page.

Select Duplicate button (B) to create a new run page with same modules.

Select Remove button (C) to delete run page from display. This permanently removes run page from display and Active Set.

NOTE: Remove button is not shown if factory default run page is selected.

Create Run Page



PC15341—UN—10JUL13

Add New Button

Select Add New button to create a new Run Page.

DX,PC,LAYOUT,ALLRUNPAGES-19-07APR17

Add, Edit, or Duplicate Run Pages

The same interface is displayed when adding, editing, or duplicating a run page. A new run page starts out blank, while duplicate or edited run pages have existing modules.

Run Page Name



PC15337—UN—10JUL13

A—Edit Button
B—Add Module Button

Every run page must have a unique name. Select Edit button (A) to either name or rename run page.

Add Module

Select Add Module button (B) and choose application with appropriate content. From list, find module with desired information and select Add button.

NOTE: The same module can only be placed on a run page once.

NOTE: Start with larger modules before adding smaller modules to fill in space.

Use grid to determine amount of space required for a module.

Rearrange Modules



PC15342—UN—10JUL13

Move Module

Once added to run page, select module to highlight it. Press and slide module to move it to an open area.

Remove Module



PC15343—UN—10JUL13

Remove Module Button

Select module to highlight it, and select Remove button.

DX,PC,LAYOUT,ADDRUNPAGES-19-07APR17

Navigate Run Pages on Main Page

If more than one run page is in Active Set, there are multiple ways to choose which run page is displayed on main page.

Title Bar



PC17357—UN—03DEC13

A—Title Bar

Select title bar (A) at top of main page to display a list of all run pages that are in Active Set. Choose a run page to return to main page.

Next and Previous Run Page Buttons



PC17358—UN—03DEC13

B—Next and Previous Run Page Buttons
C—Finger Swipe

Select either right or left arrows (B) to cycle through run pages.

Finger Swipe

Swipe finger (C) across display, left and right, to cycle through run pages.

Navigation Bar Shortcut Button



PC17359—UN—03DEC13

D—Navigation Bar Shortcut Button

Select right arrow (D) below display in CommandCenter™ Navigation Bar.

Extended Monitor

Extended monitor is a secondary display used to show a second active run page.



PC23154—UN—10OCT16

Swap Button

Select the Swap button to transfer active run page to the secondary display. All functionality of the transferred run page remains active on the extended monitor. The next run page in the active set becomes the active run page on the primary display.

For more information on extended monitor, see onscreen help.

DX,PC,LAYOUT,NAV-19-30APR18

Fields and Boundaries



PC17260—UN—11JUL13

Fields and Boundaries Application

Field names organize information so it is easier to find and use data, such as guidance lines. Using field names is optional, and a "---" appears for undefined names.

Use Fields and Boundaries application to:

- Select field location name used for all other applications.
- Create a client, farm, or field name.
- Change the name of a client, farm, or field.
- Associate a field to a different farm or client.
- Delete a client, farm, or field.
- Create boundaries.

Select Client, Farm, and Field box to set current location and choose field name used for all other applications.

Integration with Guidance

- A field can be associated to a guidance track when the track is created, or by editing the track.
- Guidance track list can be filtered by field name.

Run Page Module

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A Location module for the Fields application is available in Layout Manager application. It is available on the default Guidance Run Page, and it can be added to any run page.

Select a field in Location module to:

- Filter guidance track list.
- Associate new tracks to the field when they are created.
- Begin new or continue previous work data.

Navigate to Fields

1. Select Menu
2. Select Applications tab.
3. Select Fields application.

DX,PC,FIELDS-19-22DEC15

Manage Clients, Farms, and Fields

Field Organization



PC17389—UN—15MAY14

A—Client
B—Farm
C—Field

Use the following hierarchy to help organize data:

- Clients (A) are the highest level of organization.
- Farms (B) are the middle level of organization. A farm can be associated with a client.
- Fields (C) are the basic level of organization. A field can be associated with a farm and a client.

A strict hierarchy is not necessary, though it is possible to use only field names, and leave farm and client names blank. It is even possible not to use field names at all.

These decisions depend on amount of data being kept. More data requires structure to find fields.

NOTE: In previous John Deere displays, maps and guidance lines were saved based on field names. In the Generation 4 display, data is saved as latitude and longitude points. The field name is only needed as a way to filter data.

Select and Filter Names

In the Client, Farm, and Field hierarchy, select clients and farms to find fields.

1. Select Client tab.
2. From list, select client. Client name is displayed on Client tab.
3. Farm tab is automatically displayed. Only farms associated with the client are listed.
4. From list, select farm. Farm name is displayed on Farm tab.
5. Field tab is automatically displayed. Only fields associated with the client and farm are listed. Select field.

Remove Filter

Remove filter by selecting Clear Selections button.

Create and Edit Names

NOTE: Clients, farms, or fields should not be renamed after data is recorded. If renamed, change name in other locations, such as John Deere Operations Center.

Client, Farm, and Field names cannot be duplicated. Names associated with different clients and farms must be unique.

Client and Farm Tabs

When Client or Farm tabs are selected, select Edit button at bottom of page to display Edit Client or Edit Farm list.

On either list, select one of the client or farm names to edit it, or select New button at bottom of page to create a name.

Field Tab

When Field tab is selected, highlight field name and select edit button to edit a field. Select New button at bottom of the page to create a name.

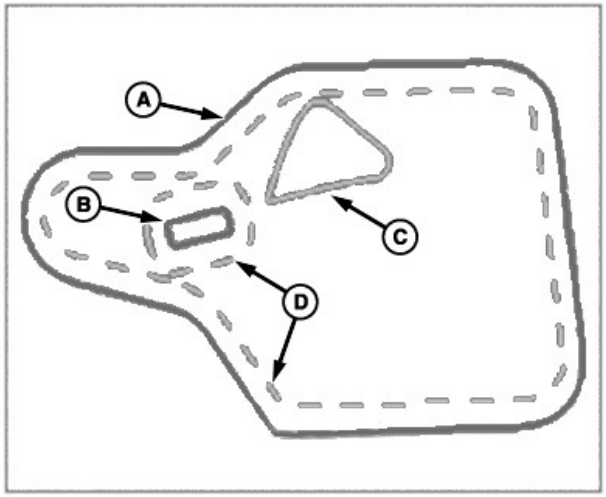
Delete Names

To delete a name, edit the client, farm, or field, and select the delete button on the edit page.

- Deleting a client also deletes all farms, fields, and guidance tracks associated with client.
- Deleting a farm also deletes all fields and guidance tracks associated with farm.
- Deleting a field also deletes all guidance tracks associated with field.

DX,PC,FIELDS,MANAGE-19-07APR17

Field Boundaries



PC21838—UN—19NOV15

A—Exterior Boundary (Pink)
B—Interior Impassable Boundary (Pink)
C—Interior Passable Boundary (Yellow)
D—Headland Boundary (Yellow)

The exterior boundary (A) marks the perimeter of a field.

NOTE: Creating and using interior boundaries requires an exterior boundary.

Interior boundaries mark important areas of field. These can either be impassable (pink) (B) or passable (yellow) (C). An example of an impassable boundary is a well, while an example of a passable boundary is a waterway.

Headland boundaries (yellow dashes) (D) mark areas in the field where there are end rows or turn rows. They are created inside the exterior boundary and around impassable interior boundaries.

When used with Section Control, boundaries prevent application of product inside marked areas of the field and outside of the field.

Area Calculation

An estimated boundary area is calculated on a flat two-dimensional plane. All active interior boundary areas are subtracted from exterior boundary area. Elevation changes are not used in boundary area calculation.

Work Totals include elevation changes in area worked totals. Due to calculation differences, boundary and work totals vary.

Creating a boundary using a coverage map requires the following:

- Field name.
- Coverage map with no coverage gaps around the exterior of the field.

Creating a driven boundary requires the following:

- Field name.
- StarFire™ receiver with SF1 or better signal.

DX,PC,FIELDS,BOUNDARIES-19-23APR18

AutoTrac™ Guidance



PC16676—UN—18MAR13

Guidance

Use Guidance application for steering machines through field along guidance tracks. Guidance can be done manually, or automatically using AutoTrac™.

Manual Guidance (included feature)

Manual Guidance, also known as Parallel Tracking™, enables operator to steer manually along guidance tracks using onscreen lightbar, map, and audible tones. A StarFire™ receiver is required to operate Manual Guidance. Parallel Tracking™ shows the machine's position in a field relative to a track determined during the first pass through the field. Parallel Tracking™ has modes to follow a straight, circle, boundary, or curve track. Use the machine icon, lightbar, and line on the display to know which way to steer to stay on the path parallel with the last. Audible alerts allow the operator to focus on the field.

AutoTrac™ Guidance (activation required)

AutoTrac™ is an assisted steering system that automatically steers the machine through the field. AutoTrac™ requires a StarFire™ receiver and an integrated steering system on the machine to operate. After operator enters a reference path (Track 0) in AutoTrac™, machine will steer itself parallel to that track if all conditions are met.

The AutoTrac™ Guidance application provides the tools to:

- Set up a guidance track.
- Change track width.
- Adjust settings to improve guidance performance.
- Engage AutoTrac™.
- View exit codes.

DX,PC,AUTOTRAC-19-30APR18

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AutoTrac is a trademark of Deere & Company
Parallel Tracking is a trademark of Deere & Company

Equipment Manager



PC20410—UN—22MAY15

Equipment Manager

Select Equipment Manager application to enter Machine and Implement Profile settings. Profile settings are important for accurate performance of John Deere Precision Agricultural applications, such as AutoTrac™, Section Control, and work data maps.

Navigate to Equipment Manager

1. Select Menu.
2. Select Applications tab.
3. Select Equipment Manager application.

DX,PC,EQUIP-19-22DEC15

Machine Profile

General Settings

If display detects machine, some information is automatically set by machine control units.

At this time, profile settings cannot be imported or exported from the display.

Settings specific to certain machine types only appear on page when applicable.

- ***Articulated Tractor Articulation Point***

  Front Axle

  - Distance from articulation point to center of the front axle. Articulation point is the pivoting point of machine when making a turn.

  Rear Axle

  - Distance from articulation point to center of rear axle. Articulation point is the pivoting point of machine when making a turn.
- ***Track Tractor Center of Rotation***

  Center of Rotation

  - Distance from pivot point of the machine to rear axle.

GPS Offsets

- ***GPS Lateral Offset***
  - Lateral distance (left or right) from the center line of the machine to center of GPS receiver. This value is usually set to 0.0 unless GPS receiver is offset left or right of the machine center line. Guidance and Mapping applications require GPS Lateral Offset settings.
- ***GPS Inline Offset***
  - Inline distance from center of the non-steering axle on the machine to center of GPS receiver. Mapping application requires GPS Inline Offset settings.
- ***GPS Height***
  - Vertical distance from GPS receiver to ground.

Connection Offsets

- Inline distance from center of rear axle to connection point. Connection point is location where implement connects to machine. Mapping application requires Connection Offset settings.

Restore Profile to Factory Defaults

NOTE: Only machines detected by the display can have profile settings restored to factory default.

Default machine profile settings are stored in machine control units. Changes to these settings are stored in the display. To reset profile to factory defaults, select settings at the top of Machine Profile page. Then, select Reset Profile button.

Use Help Center Onscreen Help for more information about Equipment Manager and the Machine Profile.

DX,PC,EQUIP,MACHINE-19-07APR17

Implement Profile

Profile name is set automatically based on implement that is auto-detected and cannot be saved. On implements without a control unit, profile name is set by the operator.

Saving Profile Settings

Select Save button to store settings from all tabs and close Implement Profile application. Selecting Save is not required when switching between tabs.

Implement Profile settings are saved in the display according to the following factors:

- Profile Name
- ISO name of the detected implement control unit

NOTE: Set up pre-operation settings in the implement control unit, such as drive configuration, before configuring Implement Profile settings.

ISO name changes when some implement control unit

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settings change. This includes changing control unit setup between fertilizer and seeding.

Automatic Detection of Profile Settings

NOTE: Section Control must be OFF to detect SeedStar™ 2 or SeedStar™ XP planters when first connected to tractor. After first connection, planter is detected whether Section Control is ON or OFF.

If an implement control unit is connected, some Implement Profile settings are automatically set by the implement control unit.

An alert stating "Implement Profile Created" is displayed the first time the control unit is connected. When the implement is reconnected in the future, it is identified by its ISO name and Implement Profile settings that are saved in the display are loaded.

NOTE: The alert continues to appear if "Setup Later" is selected.

When an implement is connected that is not recognized, a profile must be created for that implement. Select Add Implement button in Equipment Manager to create an implement profile.

To view currently detected ISO Name, select Diagnostics Center > Controller Diagnostics tab > choose implement control unit > Controller Info tab.

Verify all required settings before operation. Work point is not set automatically.

Connection Types

- Connection type, or hitch, describes how implement is attached to machine and controls how display determines implement movement behind machine.

  Coverage map, documentation, and Section Control require Connection Type settings.

- ***Pivoting Offset***

  Some implements have a pivoting hitch that connects to machine's rear 3-point hitch. The offset for this pivoting location is required for display to determine implement movement behind the machine. Option is available when rear 3-point is selected as the connection type.

Working Width

- Working Width is the width of the area tilled, planted, sprayed, or harvested on each pass through the field. It is used to create work data maps and calculate area worked. Guidance, Mapping, and Area Totals applications require Working Width.

Dimensions

- ***Lateral Offset***

  Lateral distance from center point of the machine to center point of working width of implement. Guidance and Mapping applications require Lateral Offset setting.

- ***Center of Rotation***

  Inline distance from connection point to the implement's center of rotation while in working position. Usually, this is where load bearing parts of implement make contact with ground. Center of Rotation offset is important to accurately model trailing action of implement around curves. Mapping application requires Center of Rotation setting.

- ***Work Point***

  Inline distance from connection point to point where the operation occurs. For example, where seed or product is dropped, a crop is harvested, or ground is tilled. Mapping application requires Work Point setting.

- ***Section Offset (ISOBUS Implements)***

  Inline distance from center of rotation to point where the operation occurs. For example, where seed or product is dropped, a crop is harvested, or ground is tilled. Mapping application requires Section Offset setting.

Work Recording

- Recording Triggers determine when map recording and Work Monitor totals are turned ON and OFF. Not all recording triggers are available for all machine types.

NOTE: In Manual mode, operator must push Record or Pause button to turn work data map recording ON or OFF.

Mechanical Delay

- Mechanical delay is the average time for the product to reach the ground after an ON or OFF command. It may need to change with each machine, implement, and display combination. Mapping application requires Mechanical Delay settings. Settings are critical for Section Control performance.

Use Help Center Onscreen Help for more information about Equipment Manager and the Implement Profile.

DX,PC,EQUIP,IMPLEMENT-19-25APR18

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Settings Manager



PC22543—UN—22APR16

Settings Manager

Use Settings Manager to load, edit, or save configurations of machine and implement settings. Saved configurations are used to easily restore the settings that a machine and implement use during an operation.

Navigate to Settings Manager

1. Select Menu.
2. Select Applications tab.
3. Select Settings Manager application.

DX,PC,SETTINGS-19-10MAY16

Machine Monitor



PC15318—UN—16MAY13

Machine Monitor

Machine Monitor displays machine-specific performance values. Groupings of values include:

- Speed and Power
- Fuel and Pressure
- Temperature
- Electrical
- Hours

NOTE: Values available in each group depend on machine model.

Select tabs on left-hand side of the page to switch between groups. Select a value to view a popup of just that value.

If a value is not available, dashes will be shown.

Navigate to Machine Monitor

1. Select Menu.
2. Select Applications tab.
3. Select Machine Monitor application.

DX,PC,MACHMON-19-23DEC15

Work Monitor



PC15317—UN—16MAY13

Work Monitor

Work Monitor displays averaged and totaled machine and operation-specific values. Select a value on the page to view a popup window of just that value. Every one of these values can be placed on the main run page.

Use the Reset button at the bottom of the page to clear all values, except instant values. Date and time of the last reset will be indicated next to the button.

To the right of the Reset button, Work Recording indicates whether the Work Monitor is active and currently counting. A pulsing light shows it is active.

Navigate to Work Monitor

1. Select Menu.
2. Select Applications tab.
3. Select Work Monitor application.

DX,PC,WORKMON-19-23DEC15

Work Recording

When Work Recording is ON, map recording and counters that require a recording trigger accumulate. Counters requiring Work Recording include:

- Area Worked
- Time Worked
- Productivity
- Average Fuel Per Area
- Average Working Speed

Select Work Recording in the bottom right hand corner to view a popup window with recording settings.

Recording status is based on the current recording trigger selected in Implement Profile. If the recording trigger does not fit the current operations, press Edit button to change the selected recording trigger. For more information, see Implement Profile section.

NOTE: If recording trigger is set to manual, work recording can be switched on or off by pressing the recording button.

DX,PC,WORKMON,REC-19-23DEC15

Maintenance and Calibrations



PC15324—UN—21MAY13

Maintenance and Calibrations

Maintenance and Calibrations application allows the operator to set up service intervals and perform calibrations on machine components.

Navigate to Maintenance and Calibrations

1. Select Menu.
2. Select Tractor Settings tab.
3. Select Maintenance and Calibrations application.

DX,PC,MAINT-19-23DEC15

Service Checks

NOTE: Availability of the Service Checks feature depends on purchase options.

Perform service checks with machine on level ground and engine off. For accurate readings, wait at least 40 minutes after engine shut down before checking fluid levels.

A light indicates the status of a machine service checkpoint.

- Green light — Normal level
- Red light — High level or low level

The following checkpoints are available:



PC17385—UN—15MAY14

A—Engine Oil Level
B—Engine Coolant Level

- Engine Oil Level (A)
- Engine Coolant Level (B)

DX,PC,MAINT,SERVCHECK-19-07APR17

Service Intervals

Service Intervals are reminders of when regular maintenance needs to be performed on a machine.

Select Add Service Interval button to create a new service interval. An unlimited number of service intervals can be added.

Once a service interval is created, it is added to the list and displayed with the name, elapsed time, and interval amount.

- The operator selects the name to identify the specific service interval.
- Elapsed indicates the number of hours since the service interval was reset.
- Interval is the number of hours between each service.

The intervals are sorted from least amount of time due to the most amount of time due. They are then sorted by name, in alpha-numerical order, with priority given to numbers.

Twenty hours before the service interval is due, the system will inform the operator that the machine will need to be serviced soon. Once the message has been acknowledged, the system will inform the operator about the upcoming service at every startup until service interval is reset.

DX,PC,MAINT,SERVINTERVAL-19-23DEC15

Calibrations

Use this application to perform wheel slip calibration and radar calibration.

Radar Calibration



PC23946—UN—22MAR17

Radar Calibration

A radar device needs to be calibrated when it is first installed on the machine or if there is a difference between radar speed and actual ground speed when operating unloaded on a hard surface.

NOTE: In windy conditions, moving parts such as leaves, dust, or gravel can cause inaccurate radar speed.

Wheel Slip Calibration



PC23947—UN—22MAR17

Wheel Slip Calibration

Calibrate wheel slip if there is a mismatch between radar speed and wheel speed when operating unloaded on a hard surface. For more information, see Machine Monitor.

Perform calibration while driving with an unloaded machine on a hard, dry, clean, and level surface.

NOTE: Wheel slip calibration is only available on a connected and calibrated radar device.

Make sure that radar speed is accurate before performing wheel slip calibration.

DX,PC,MAINT,CAL-19-07APR17

ISOBUS VT



PC16682—UN—18MAR13

ISOBUS VT

This John Deere display supports Agricultural Industry Electronics Foundation (AEF) ISOBUS compatible controllers according to ISO 11783. These controllers can be viewed and operated within the ISOBUS Virtual Terminal (VT).

When an ISOBUS controller is connected, graphic files for the user interface are loaded into ISOBUS VT. Then ISOBUS VT provides a means for the operator to navigate through and operate all available functions of ISOBUS controller.

Navigate to ISOBUS VT

1. Select Menu.
2. Select Applications tab.
3. Select ISOBUS VT application.

Connected ISOBUS Implements and Controllers

The Generation 4 display loads and communicates with different ISOBUS controllers at the same time. A list of all connected ISOBUS controllers is displayed after selecting menu button.

Select desired ISOBUS controller and press OK button to view the user interface.

Troubleshooting

If the interface for an ISOBUS controller does not display correctly:

- View the ISOBUS controller in Status Center, and follow troubleshooting steps for the status indicated. For more information, view ISOBUS controllers in Diagnostic Center.

If the interface still does not display correctly:

1. Select settings at the top of ISOBUS VT application.
2. Select Clean Up ISOBUS VT in advanced settings to clear stored ISOBUS controller user interface files.

The user interface is reloaded the next time the controller is connected.

Run Page Module

ISOBUS VT modules can be added to a run page using the Layout Manager application.

Modules are loaded from implement controller and are only available while controller is connected. The types of modules available are dependent on controller manufacturer. This display is capable of displaying ISOBUS VT version 3.

DX,PC,ISOBUSVT-19-23APR18

StarFire™ GPS Receiver



PC17388—UN—15MAY14

StarFire Receiver

The StarFire™ GPS receiver acquires global positioning and differential correction signal through a single receiver.

A Terrain Compensation Module (TCM) is integrated into the receiver and corrects for machine dynamics, such as roll and pitch on side-slopes, rough terrain, or varying soil conditions. An accurate TCM calibration is necessary for proper operation.

See the StarFire™ Receiver operator's manual for setup and calibration instructions.

Navigate to StarFire™ GPS Receiver

1. Select Menu.
2. Select Applications tab.
3. Select StarFire™ application.

DX,PC,STARFIRE-19-07APR17

Video



PC15312—UN—15MAY13

Video

StarFire is a trademark of Deere & Company

CAUTION: Do not rely on a camera for collision avoidance or bystander detection. To avoid possible injury or death to operator or others, always remain alert and aware of surroundings when operating the machine. Read and understand AVOID BACKOVER ACCIDENTS in the safety section.

The Video application is used to observe areas around the machine. Only one video can be viewed at a time.

4600 processor can support up to four camera inputs, while 4100 and 4200 processor can support only one camera input.

For more information about the different types of displays, see Display Introduction section.

Navigate to Video

1. Select Menu.
2. Select Applications tab.
3. Select Video application.

Switching Cameras



PC23948—UN—22MAR17

Camera Icon

If more than one camera is connected, choose between video inputs by selecting different camera numbers.

Mirror Video



PC23949—UN—22MAR17

Mirror Video Button

Select Mirror Video button to simulate a rear view mirror. This swaps left and right sides of video image.

Contrast



PC23950—UN—22MAR17

Video Contrast Icon

Adjust video contrast using plus (+) and minus (-) buttons. Brighten video by selecting the plus button, and darken video by selecting minus button.

IMPORTANT: Determine if camera image or video application is mirrored before using Video application.

DX,PC,VIDEO-19-23APR18

Video Triggers

Video can be displayed when certain machine functions are performed (For example: Reversing, PTO engage).

1. Select Edit Triggers to configure settings.
2. Select a trigger.
3. Select camera input for the current trigger. This camera is displayed when trigger is activated.

NOTE: To prevent video from displaying for a trigger, select No Camera.

4. Enter video Timeout length. This is the amount of time video is shown after the trigger becomes inactive.

DX,PC,VIDEO,TRIGGERS-19-23DEC15

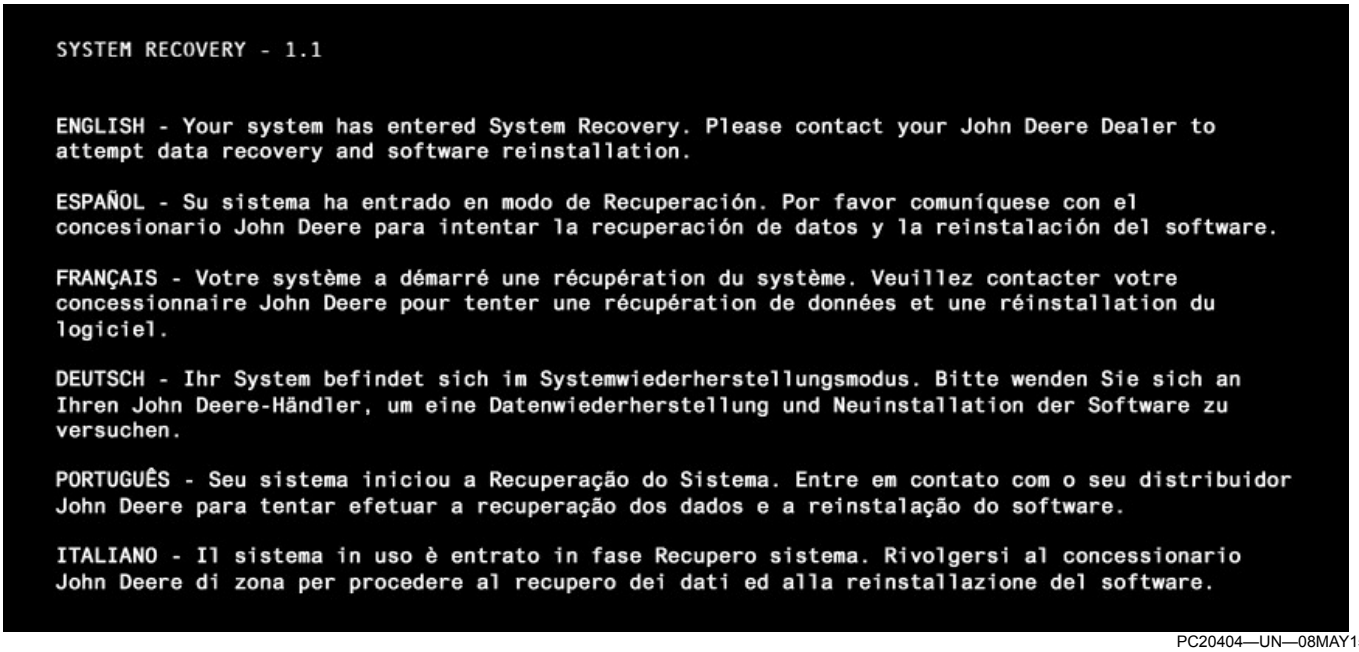
Clean Display

IMPORTANT: Always clean display screen with power off. Cleaning screen while operating could result in unintended button selections.

To clean display, power down and wipe screen with a soft cloth sprayed with a non-ammonia based cleaner, such as John Deere glass or multipurpose cleaner.

DX,PC,CLEAN,DISP-19-21OCT16

System Recovery



PC20404—UN—08MAY15

Your system has entered System Recovery. Please contact your John Deere Dealer to attempt data recovery and software reinstallation.

Follow instructions if system recovery message is displayed.

System Recovery tries to protect and potentially save user data. System Recovery initiates when the system detects a conflict that might corrupt the intended functions. For more information about System Recovery, contact your John Deere dealer.

DX,PC,SYS,RECOVERY-19-21OCT16

CommandCenter™ Display Applications

The following information contains the on-screen help for each application specific to this machine. This information is also available on the display.

CommandCenter is a trademark of Deere & Company

VM03385,0000137-19-15NOV16

Interactive Combine Adjustment

Access Interactive Combine Adjustment



H113668—UN—22OCT15

Menu

Access Application Through Display:

1. Menu



H119891—UN—30JAN17

Applications

2. Applications tab



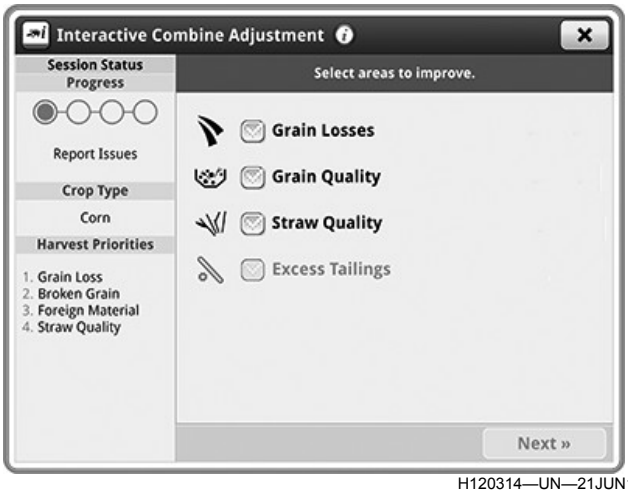
H116290—UN—25JAN17

Interactive Combine Adjustment

3. Interactive Combine Adjustment

SS43267,00008E3-19-24JAN17

Interactive Combine Adjustment (ICA) Main Page



H120314—UN—21JUN17

Interactive Combine Adjustment

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

The Interactive Combine Adjustment (ICA) application is actively seeking to optimize machine settings based on your feedback.

- Use Harvest Settings for initial machine settings for selected crop.
- Use Interactive Combine Adjustment to optimize the machine settings.

NOTE: While in a session, any time you close the ICA application a message appears on the display and can be viewed in the Status Center on the display.

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H116301—UN—25JAN17

Report Issues

Items Accessible on "Interactive Combine Adjustment" Main Page:

Session Status— communicates the current system Progress, Crop Type, Harvest Priorities, Reported Issues, and Last Adjustment.

Stage 1 — Report Issues

Select areas to improve..— select an area needing improvement.

What type of Grain Quality issues?— select specific grain quality types which need performance improvement.

ICA2 Detected Issues

ICA2 Detected Issues— displays a summary of the issues that ICA2 has detected when opening ICA from ICA2.



H116306—UN—25JAN17

Review Solutions

Stage 2 — Review Solutions

ICA is finding recommendations.— finds recommended machine settings based on the issues you reported.

Select "Apply" to have ICA adjust settings using the shown solution.— apply Interactive Combine Adjustment (ICA) recommended solution.

Select "Next" to proceed with manual adjustment.— requires you to make in-cab or out-of-cab adjustments.



H116327—UN—25JAN17

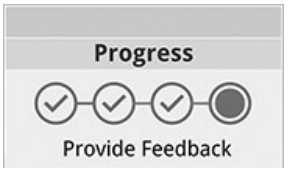
Applying Solution

Stage 3 — Applying Solution

ICA is applying the setting adjustment...— performs the selected setting adjustment.

ICA is monitoring performance changes...— monitors performance change of selected recommended setting.

ICA is awaiting operator action...— make manual machine adjustments that need to take place in order for the Interactive Combine Adjustment (ICA) to auto-advance to the next step of the solution evaluation.



H116329—UN—25JAN17

Provide Feedback

Stage 4 — Provide Feedback

Since the last adjustment, how has performance been impacted?— communicate to Interactive Combine Adjustment (ICA) the state of the harvest performance since the last adjustment was made.

How should ICA proceed?— allows you to select the following if "Unreported Issues" are unacceptable:



H118256—UN—30JAN17

Optimization Complete

Stage 5 — Optimization Complete

ICA Session Complete— machine has been optimized.



H116646—UN—31JAN17

ICA Status

Run Page Modules:

Modules for this application can be added to the run pages using Layout Manager.

ICA Status— each distinct "stage" of the ICA process can be represented on the run page module while that stage is active.

NOTE: Different modules can be available for your application.



H116325—UN—25JAN17

Shortcut Key

Shortcut Keys:

Shortcut keys for this application can be added to the shortcut bar using Layout Manager.

ICA Shortcut Key— quick access to open ICA.

NOTE: If Integrated Combine Adjustment is OFF and the shortcut key flashes, a message appears indicating the machine needs to be optimized again through ICA.

NOTE: Different shortcut keys can be available for your application.

SS43267,0000924-19-16MAY17

Session Status

Session Status communicates the current Interactive Combine Adjustment (ICA) Progress, Crop Type, Harvest Priorities, Reported Issues, and Last Adjustment.



H116301—UN—25JAN17

Session Status

Items Accessible on Session Status:

NOTE: Not all items appear at the same time.

Progress— shows the current stage of the session.



H116363—UN—30JAN17

Crop Type

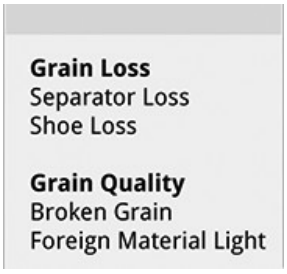
Crop Type— displays the harvested crop, and when selected, opens Work Setup.



H116364—UN—30JAN17

Harvest Priorities

Harvest Priorities— allows you to arrange the priority list in the order of their importance with the highest priority at the top.



H119180—UN—30JAN17

Reported Issues

Reported Issues— communicates the issues that you chose that require performance improvement.



H116342—UN—30JAN17

Last Adjustment

Last Adjustment— communicates the setting, value and time of the last adjustment that ICA made.

SS43267,0000925-19-24JAN17

Select areas to improve.

"Select areas to improve." allows you to select an area needing improvement.



H116652—UN—30JAN17

Grain Losses

Items Accessible on "Select areas to improve." Page:

Grain Losses— select if Grain Losses is an area you would like to improve.



H116653—UN—30JAN17

Grain Quality

Grain Quality— select if Grain Quality is an area you would like to improve.



H116573—UN—25JAN17

Straw Quality

Straw Quality— select if Straw Quality is an area you would like to improve.



H116574—UN—25JAN17

Excess Tailings



H119179—UN—25JAN17

Excess Tailings Disabled

Excess Tailings— select if you have excess tailings.



H116316—UN—25JAN17

Error Message

NOTE: Excess Tailings can only be selected in combination with another issue. If not, an error message appears.



H116294—UN—30JAN17

Next

NOTE: The "Next" button will remain disabled until at least one item has been selected.



H116293—UN—30JAN17

Next

If multiple selections are made, selecting "Next" advances to next area to improve.

NOTE: When all areas to improve have been addressed, selecting "Next" will take you ICA is finding recommendations.

NOTE: If you are reporting new issues in the middle of an ICA session, current unresolved issues will remain checked.



H116292—UN—30JAN17

Stop Session

Select to stop session.

NOTE: Stop Session is the best method to close the application without resolving all issues and starting over if you re-open the application. Adjustments that were made by ICA will not be undone if Stop Session is chosen to close the system.

NOTE: Stop session is only available if you are reporting new issues in the middle of an ICA session.



H116310—UN—30JAN17

Close

Select to close ICA application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,0000926-19-16MAY17

Harvest Priorities

Harvest Priorities allows you to arrange the harvest priorities list in order of importance, with the highest priority at the top.

NOTE: Harvest Priorities are used to determine what areas are most important to you when multiple issues exist.

Modify When:

Changing to a new crop type and the default priorities do not match your own.



H116364—UN—30JAN17

Harvest Priorities

Procedure to Modify:

1. Select area under Harvest Priorities to open.



H116313—UN—25JAN17

Harvest Priorities

2. Select highest priority item to place at the top of the list.



H116315—UN—25JAN17

Raise

- Select to raise the selected item.



H116314—UN—25JAN17

Lower

- Select to lower the selected item.

3. Select remaining individual items and place in desired priority.



H116312—UN—30JAN17

Cancel

Select to cancel Edit Harvest Priorities.



H116311—UN—25JAN17

OK

Select to close after placing in highest priority.

SS43267,0000927-19-16MAY17

What type of Grain Losses?

"What type of Grain Losses?" allows you to select specific grain loss issues taking place, then allows the

system to search for adjustments to improve performance.



H116613—UN—25JAN17

Separator Loss

Items Accessible on "What type of Grain Losses?" Page:

Separator Loss— select if large amounts of free grain are at the rear of the grain return pan.



H116614—UN—25JAN17

Shoe Loss

Shoe Loss— select if grain is exiting the machine through the cleaning shoe.



H116615—UN—25JAN17

Unthreshed Loss

Unthreshed Loss— select if grain is remaining attached to the plant material.



H116296—UN—25JAN17

Back

Select to return to the previous display.



H116293—UN—30JAN17

Next

Select to open the next display.



H116294—UN—30JAN17

Next

NOTE: During any state where you are required to provide responses or input, the "Next" button will remain disabled until at least one item has been selected.



H116310—UN—30JAN17

Close

Select to close the Interactive Combine Adjustment (ICA) application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,0000928-19-16MAY17

What type of Grain Quality issues?

"What type of Grain Quality issues?" allows you to select specific grain quality issues taking place, then allows the system to search for adjustments to improve performance.



H116616—UN—25JAN17

Broken Grain

Items Accessible on "What type of Grain Quality issues?" Page:

Broken Grain— select if damaged or broken grain is in the grain tank.



H116617—UN—25JAN17

Foreign Material Light

Foreign Material Light— select if there are pieces of light and fluffy material in the grain tank.



H116618—UN—25JAN17

Foreign Material Heavy

Foreign Material Heavy— select if pieces of cob or short sections of stem/stalk are in the grain tank.



H116619—UN—25JAN17

Unthreshed Material

Unthreshed Material— select if grain in the grain tank is remaining attached to cob, grain head, or pod.



H116296—UN—25JAN17

Back

Select at any time to close and return to the previous display.



H116293—UN—30JAN17

Next

Select to begin ICA session and open "ICA is finding recommendations." display.



H116310—UN—30JAN17

Close

Select to close the Interactive Combine Adjustment (ICA) application.

NOTE: ICA will resume in the same place when you reenter after closing.

SS43267,0000929-19-16MAY17

Straw Quality Issues

Windrow mode only. Straw excessively broken, too short, or tangled.

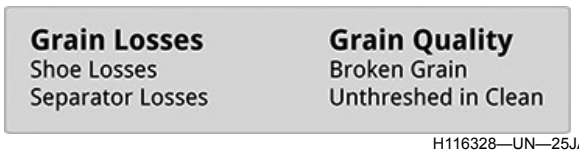
How to Determine:

Inspect straw windrow.

SS43267,000092A-19-24JAN17

ICA2 Detected Issues

ICA2 Detected Issues displays a summary of the issues that ICA2 has detected.



H116328—UN—25JAN17

ICA2 Detected Issues

Items Accessible on ICA2 Detected Issues Page:

ICA2 Detected Issues— shows issues found in grain loss, grain quality and excess tailings.



H116582—UN—30JAN17

Edit Issues

Edit Issues— allows you to begin a new session and change the reported issues.



H116293—UN—30JAN17

Next

Next— select to advance the system to Recommended Solutions.

SS43267,000092B-19-24JAN17

Excess Tailings

Tailings volume is high enough to cause tailings full alarm or significantly higher than expected by operator.

How to Determine:

View tailings on VisionTrak™ display.

NOTE: Properly set machines have some tailing volume.

SS43267,000092C-19-24JAN17

ICA is finding recommendations.

"ICA is finding recommendations." activates ICA, begins a session, displays the current selected settings, and displays the Finding Recommendations progress indicator.



H116582—UN—30JAN17

Edit Issues

Items Accessible on "ICA is finding recommendations." Page:

Edit Issues— allows you to begin a new session and change the reported issues or return to the previous page.



H116308—UN—25JAN17

Current Settings

Current Settings— communicates the current settings of

VisionTrak is a trademark of Deere & Company

threshing clearance, threshing speed, cleaning fan speed, chaffer clearance, and sieve clearance.



H113801—UN—04JAN17

Progress Indicator

Finding Recommendations— displays the progress indicator while the system is searching for recommended solutions.



H116292—UN—30JAN17

Stop Session

Stop Session— ends the session, clears the issue list, and returns to the "Select areas to improve" display.

NOTE: Stop Session is the best method to close the application without resolving all issues and starting over if you re-open the application. Adjustments that were made by ICA will not be undone if Stop Session is chosen to close the system.

NOTE: Stop session is only available if you are reporting new issues in the middle of an ICA session.

After ICA finds the recommendations, you will be taken to the Select "Apply" to have ICA adjust settings using the shown solution.



H116310—UN—30JAN17

Close

Select to close the ICA application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,000092D-19-26MAY17

Select "Apply" to have ICA adjust settings using the shown solution.

"Select "Apply" to have ICA adjust settings using the shown solution." allows you to apply Interactive Combine Adjustment (ICA) recommended solutions.



H116308—UN—25JAN17

Current Settings

Items Accessible on "Select "Apply" to have ICA adjust settings using the shown solution." Page:

Current Settings— communicates the current selected settings.



H116322—UN—25JAN17

Recommended Solution

Recommended Solutions— allows you to toggle through the system recommended solutions and apply them to the system.



H116582—UN—30JAN17

Edit Issues

Edit Issues— allows you to begin a new session and change the reported issues or return to the previous display.



H116292—UN—30JAN17

Stop Session

Stop Session— select to end session and return to Select areas to improve.

NOTE: Stop Session is the best method to close the application without resolving all issues and starting over if you re-open the application. Adjustments that were made by ICA will not be undone if Stop Session is chosen to close the system.



H116318—UN—25JAN17

Apply

Apply— select to apply the currently selected recommended solution.

NOTE: When "Apply" is clicked after an in-cab adjustment, ICA will close out.

NOTE: Once Apply is selected and a machine automated adjustment is to be made, a message appears on the display, which can be viewed in the Status Center on the display.

After ICA has applied the recommended solution, ICA begins to monitor performance.



H116310—UN—30JAN17

Close

Select to close the ICA application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,000092E-19-21JUN17

Edit Issues

Edit Issues allows you to begin a new session and change the reported issues.



H116582—UN—30JAN17

Edit Issues

Procedure to Modify:

Select to edit issues.

NOTE: Editing reported issues at this point requires a new Interactive Combine Adjustment (ICA) session. Any adjustments made during this ICA session will not be undone.



H116317—UN—25JAN17

OK

Select to begin a new session and change the reported issues.

NOTE: Session ends and returns to "Select areas to improve" display.



H116312—UN—30JAN17

Cancel

Select to return to the previous screen.

SS43267,000092F-19-24JAN17

ICA is applying the setting adjustment...

"ICA is applying the setting adjustment..." performs the selected setting adjustment when an in-cab adjustment is selected such as fan speed, threshing clearance, threshing speed, sieve or chaffer.



H116319—UN—25JAN17

Applying Setting Adjustment

Items Accessible on "ICA is applying the setting adjustment..." Page:

Progress— shows the progress of the setting adjustment.



H116310—UN—30JAN17

Close

Select to close the Interactive Combine Adjustment (ICA) application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,0000930-19-26MAY17

Undo all ICA adjustments, start over

"Undo all ICA adjustments, start over" allows you to undo all ICA adjustments that have been made by the machine or any out-of-cab adjustments that you have made.

NOTE: In-cab adjustments revert back to the settings that the machine made previously.

NOTE: Out-of-cab adjustments also need reverted. Interactive Combine Adjustment prompts you to perform these adjustments during "ICA is waiting operator action..." stage.



H116598—UN—25JAN17

Undo

Items Available on "Undo all ICA adjustments, start over" Page:

NOTE: When selecting Undo all ICA adjustments option, the following message appears on the screen:



H116316—UN—25JAN17

Message

All setting adjustments made by the ICA Application will be rolled back.

Undoing all adjustments may impact Harvester performance. Select "OK" to proceed, or select "Cancel" to return to the previous screen.



H116312—UN—30JAN17

Cancel

Select to return to previous display.



H116317—UN—25JAN17

OK

Select to undo all ICA adjustments and return to"ICA is awaiting operator action..." display.

NOTE: This will only occur if a manual (wheel speed or separator vanes) or out-of-cab adjustment has been made.

SS43267,0000931-19-24JAN17

Recommended Solutions

Recommended Solutions allows you to a see complete list of suggested solutions and specifics about the intended adjustment.



H116622—UN—25JAN17

Recommended Solutions

Items Accessible on "Solution Display":

Recommended Solutions— allows access to list of suggested solutions.



H116623—UN—25JAN17

Left



H116624—UN—25JAN17

Right

Left and Right controls— allows you to scroll through the complete list of suggested solutions, showing adjustment specifics.



H118281—UN—25JAN17

Recommended Solutions

Select to view the entire list of recommended solutions.

NOTE: Selecting Recommended Solutions opens a list of Interactive Combine Adjustment (ICA) solutions.



H118284—UN—30JAN17

Scroll Up

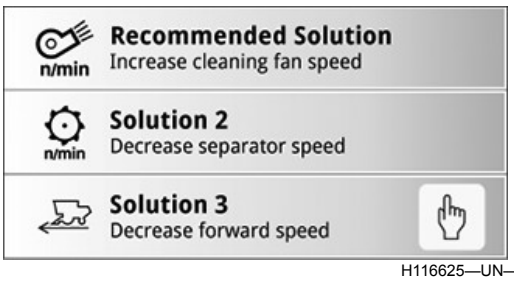
Select to scroll up the recommended solutions list.



H118282—UN—30JAN17

Scroll Down

Select to scroll down the recommended solutions list.



H116625—UN—30JAN17

Select Solution

NOTE: Solutions that require you to manually adjust settings, or climb out of the cab, have a slightly different appearance within the Solutions multi-pane toggle view. These solutions are indicated by a "hand icon", "Manual" or "Out of Cab" wording on the screen. These types of adjustments replace the "Apply" button with a "Next" button, indicating there may be more actions required.

NOTE: For out-of-cab manual adjustments, refer to the machine Operator's Manual.

SS43267,0000932-19-24JAN17

ICA is awaiting operator action...

"ICA is awaiting operator action..." allows you to make system solution adjustments that need to take place in order for the ICA to auto-advance to the next step of the solution evaluation if manual or out-of-cab adjustment is selected.



H116605—UN—30JAN17

Reduce Ground Speed to 3 mph

Items Accessible on "ICA is awaiting operator action..." Page:

Ground Speed Adjustments:

NOTE: When you reach the specified speed, ICA will advance to "ICA is monitoring performance changes" display.



H116296—UN—25JAN17

Back

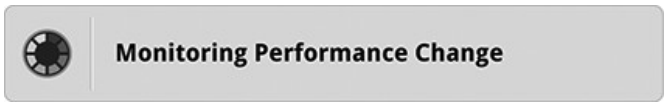
Select to return to the previous display.



H116586—UN—30JAN17

Next

Select to proceed to ICA is monitoring performance change.



H116606—UN—30JAN17

Monitoring Performance Change

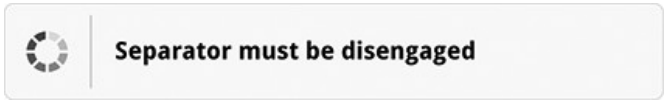
NOTE: When you select "Next," you are forcing ICA to continue with its evaluation, regardless of the actual speed adjustment made.



H116310—UN—30JAN17

Close

Select to close the ICA application.



H116608—UN—30JAN17

Separator must be disengaged

Separator Vane Adjustments:

ICA prompts you to disengage separator.

ICA makes the separator vane adjustment.

Once adjustment has been performed, system proceeds to ICA is monitoring performance changes.



H116296—UN—25JAN17

Back

Select to return to the previous display.



H116310—UN—30JAN17

Close

Select to close the ICA application.

NOTE: ICA will resume in the same place when you re-enter after closing.



H116316—UN—25JAN17

Message

Out-of-Cab Interaction:

IMPORTANT: Shut down the machine prior to performing the recommended adjustments.

Out-of-Cab Adjustments— to perform out-of-cab adjustments, refer to Operator's Manual.

NOTE: A message appears when a requirement is not met.



H116336—UN—30JAN17

Green Check Mark

NOTE: As you meet the prerequisites for "Machine must be stopped." and "Separator must be disengaged.", a check mark replaces the original icon.



H116611—UN—30JAN17

Yes

- Select "Yes" to confirm the adjustment has been performed.



H116296—UN—25JAN17

Back

Select to return to the previous display.



H116310—UN—30JAN17

Close

Select to close the ICA application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,0000933-19-26MAY17

Select "Next" to proceed with manual adjustment.

"Select 'Next' to proceed with the manual adjustment." are adjustments that require you to make manual or out-of-cab adjustments.

NOTE: These adjustments replace the "Apply" button with the "Next" button indicating more actions may be required for you to make.

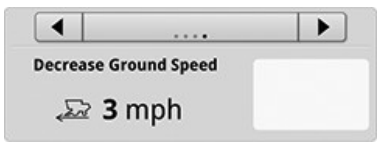
Items Accessible on "Select 'Next' to proceed with manual adjustment." Page:



H116308—UN—25JAN17

Current Settings

Current Settings— communicates the current selected settings.



H116604—UN—30JAN17

Solution

Recommended Solutions— allows you to toggle through the current settings list of the Interactive Combine Adjustments (ICA) recommended solutions.

NOTE: Solutions that require you to manually adjust settings, or climb out of the cab, have a slightly different appearance within the Solutions multi-pane toggle view. These solutions are indicated by a "hand icon", "Manual" or "Out of Cab" wording on the screen. These types of adjustments replace the "Apply" button with a "Next" button, indicating there may be more actions required.

NOTE: For out-of-cab manual adjustments, refer to the machine Operator's Manual.



H116582—UN—30JAN17

Edit Issues

Edit Issues— allows you to begin a new session and change the reported issues, or return to the previous display.



H116292—UN—30JAN17

Stop Session

Stop Session— select to end the session.

NOTE: Stop Session is the best method to close the application without resolving all issues and starting over if you re-open the application. Adjustments that were made by ICA will not be undone if Stop Session is chosen to close the system.

NOTE: Stop session is only available if you are reporting new issues in the middle of an ICA session.



H116293—UN—30JAN17

Next

Next— select to advance the system to ICA is awaiting operator action...



H116310—UN—30JAN17

Close

Select to close the ICA application.

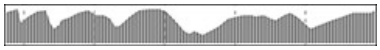
NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,0000934-19-26MAY17

View Performance

View Performance allows you to view the previous five

minute average for Separator Loss, Shoe Loss Left, Shoe Loss Right, and Tailings Volumes.

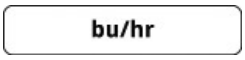


H116659—UN—30JAN17

Field/Machine Performance

Items Accessible on View Performance Page:

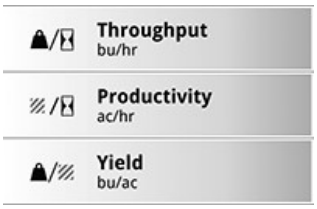
- Field/Machine Performance



H119776—UN—25JAN17

Units

Performance Options- select to change units being measured.

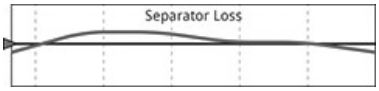


H113756—UN—25JAN17

Unit Graphs

NOTE: Throughput is selected by default.

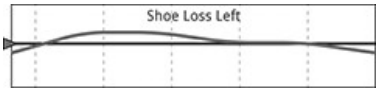
Select between Throughput, Productivity, and Yield graphs.



H116655—UN—30JAN17

Separator Loss

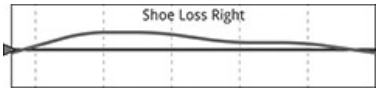
- Separator Loss



H116656—UN—30JAN17

Shoe Loss Left

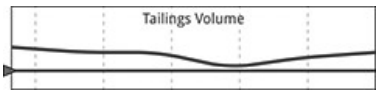
- Shoe Loss Left



H116657—UN—30JAN17

Shoe Loss Right

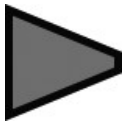
- Shoe Loss Right



H116658—UN—30JAN17

Tailings Volume

- Tailings Volume

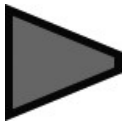


H118272—UN—25JAN17

Conditions Improved (Green Arrow)

- If conditions improved, the pointer remains green.

NOTE: Green line indicates the average performance prior to making an adjustment on the Review Solutions page.



H118273—UN—25JAN17

Conditions Worsened (Red Arrow)

- If conditions did not improve, the pointer is red.

NOTE: Red line indicates the average performance prior to making an adjustment on the Review Solutions page.



H116310—UN—30JAN17

Close

Select to close.

SS43267,0000935-19-24JAN17

Separator Loss

Separator Loss is loose kernels that leave the machine through the discharge/overshot beater. This is indicated by large amounts of free grain at the rear of the grain return pan.

How to Determine:

View Separator Loss on the VisionTrak™ display.

Perform Power Shutdown, refer to Operator's Manual for more information.

SS43267,0000936-19-24JAN17

Shoe Loss

Shoe Loss is grain that has exited the machine through the cleaning shoe, either by air current or by contact with the chaffer.

How to Determine:

View cleaning Shoe Loss on the VisionTrak™ display.

VisionTrak is a trademark of Deere & Company

Perform Power Shutdown, refer to Operator's Manual for more information.

SS43267,0000937-19-24JAN17

Unthreshed Loss

Unthreshed Loss is grain on the ground remaining attached to cob, grain head, or pod.

How to Determine:

Perform Power Shutdown, refer to Operator's Manual for more information.

View ground behind machine.

SS43267,0000938-19-24JAN17

Broken Grain

Broken Grain is damaged or broken grain in the grain tank.

How to Determine:

View the grain tank and inspect the grain sample.

SS43267,0000939-19-24JAN17

Foreign Material Light

Foreign Material Light are pieces of light and fluffy material in the grain tank with the clean grain. These are pieces that you would expect air to blow away.

How to Determine:

View the grain tank and inspect the grain sample.

SS43267,000093A-19-24JAN17

Foreign Material Heavy

Foreign Material Heavy are pieces of cob or short sections of stem/stalk in the grain tank with the clean grain. These are pieces that you would not expect air to blow away.

How to Determine:

View the grain tank and inspect the grain sample.

SS43267,000093B-19-24JAN17

Unthreshed Material

Unthreshed Material is grain in the grain tank remaining attached to cob, grain head, or pod.

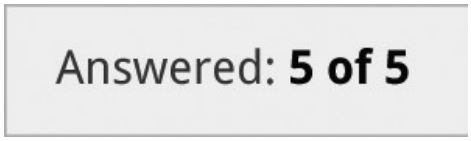
How to Determine:

View the grain tank and inspect the grain sample.

SS43267,000093C-19-24JAN17

Since the last adjustment, how has performance been impacted?

"Since the last adjustment, how has performance been impacted?" allows you to provide feedback of how each issue has been impacted by the previous adjustment.



H116602—UN—25JAN17

Answered Counter

Items Accessible on "Since the last adjustment, how has performance been impacted?" Page:

Answered Counter— updates the count as each response is selected.



H119892—UN—25JAN17

View Performance

View Performance— allows you to view the performance graphs for Separator Loss, Shoe Loss, and Tailings Volume.



H118172—UN—30JAN17

Separator Loss

Procedure to Provide Feedback on Issues you selected in the "Report Issues" Stage:

1. Select to open feedback element display.
2. Select the appropriate feedback response button.



H116334—UN—25JAN17

Worse

- Performance got worse



H116333—UN—25JAN17

Same

- Performance remains the same



H116332—UN—25JAN17

Better

- Performance has improved but is not performing to your standard



H116331—UN—25JAN17

Fixed

- Performance is fixed and is performing to your standard



H118173—UN—30JAN17

Separator Loss

NOTE: "Next" becomes available after the feedback has been provided for each reported issue.



H118247—UN—30JAN17

Excess Tailings

Procedure to Modify Excess Tailings:

NOTE: Excess Tailings will only be available if you selected it in the "Report Issues" stage.

1. Select to open the element display.
2. Select the appropriate feedback response button.



H119893—UN—30JAN17

Acceptable

- If performance is acceptable



H118249—UN—30JAN17

Unacceptable

- If performance is unacceptable



H118250—UN—30JAN17

Excess Tailings/Acceptable



H118242—UN—30JAN17

Unreported Issues

Procedure to Modify Unreported Issues:

1. Select to open the element display.
2. Select the appropriate feedback response button.



H119893—UN—30JAN17

Acceptable

- If performance is acceptable



H118249—UN—30JAN17

Unacceptable

- If performance is unacceptable

NOTE: Select if an area of performance that is not listed above has gotten worse and is no longer acceptable due to the previous adjustment.



H118263—UN—30JAN17

Unreported Issues/None

NOTE: If you select "Unacceptable" then selecting "Next" brings you to How should ICA proceed?.



H116293—UN—30JAN17

Next

Select Next after feedback has been provided for all items.



H116310—UN—30JAN17

Close

Select to close the Interactive Combine Adjustment (ICA) application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,000093D-19-26MAY17

ICA Session Complete

"ICA Session Complete" display is shown when the machine is equipped with Integrated Combine Adjustment 2 (ICA2) and an ICA2 supported crop is selected.



H118257—UN—30JAN17

Auto Maintain Current Performance

Items Accessible on "ICA Session Complete" Page:

Select to automatically create a new performance target for ICA2 based on current performance.



H118258—UN—31JAN17

Exit Optimization

Select to Exit Optimization.



H116311—UN—25JAN17

OK

Select to close the display.

SS43267,000093E-19-24JAN17

How should ICA proceed?

"How should ICA proceed?" allows you to select the following:

- Keep last adjustment, report a new issue.
- Undo last adjustment, see other solutions.
- Undo all ICA adjustments, start over.



H116599—UN—25JAN17

Report New Issue

Items Accessible on "How should ICA proceed?" Page:

- Select to keep the last adjustment and report a new issue.



H116596—UN—25JAN17

See Other Solutions

- Select to undo the last adjustment and to view other solutions.



H116598—UN—25JAN17

Undo All/Start Over

- Select to undo all ICA adjustments, and start over.



H116292—UN—30JAN17

Stop Session

Select to end the session.

NOTE: Stop Session is the best method to close the application without resolving all issues and starting over if you re-open the application. Adjustments that were made by ICA will not be undone if Stop Session is chosen to close the system.



H116296—UN—25JAN17

Back

Select to return to the previous display.



H116293—UN—30JAN17

Next

Select to advance to next display.

NOTE: This will start the second session of ICA.



H116310—UN—30JAN17

Close

Select to close the ICA application.

NOTE: ICA will resume in the same place when you re-enter after closing.

SS43267,000093F-19-21JUN17

ICA is monitoring performance changes...

"ICA is monitoring performance changes..." is the system waiting for you to continue harvesting so you can monitor the performance change.



H116307—UN—25JAN17

Progress Indicator

Items Accessible on "ICA is monitoring performance changes..." Page:

Progress— shows the progress of monitoring performance.



H116292—UN—30JAN17

Stop Session

Stop Session— select to end the session, clear the issue list, and return to the "Select areas to improve" display.

NOTE: Stop Session is the best method to close the application without resolving all issues and starting over if you re-open the application. Adjustments that were made by ICA will not be undone if Stop Session is chosen to close the system.



H116310—UN—30JAN17

Close

Select to close the ICA application.

NOTE: ICA will resume in the same place when you re-enter after closing.

NOTE: System auto advances to feedback.

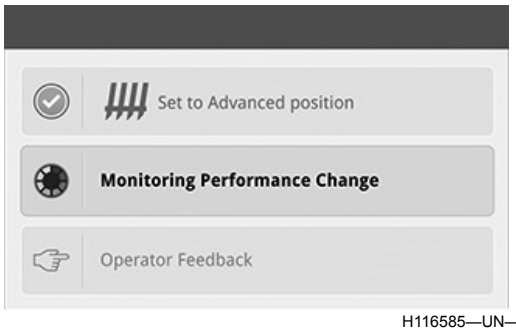
NOTE: While ICA is closed, a message appears on the display, which can be viewed in the Status Center on the display, while ICA is monitoring for consistent harvesting conditions.



H116326—UN—25JAN17

ICA Shortcut Button

NOTE: ICA indicators on shortcut buttons and status bar will have a yellow frame flashing while waiting for your feedback.



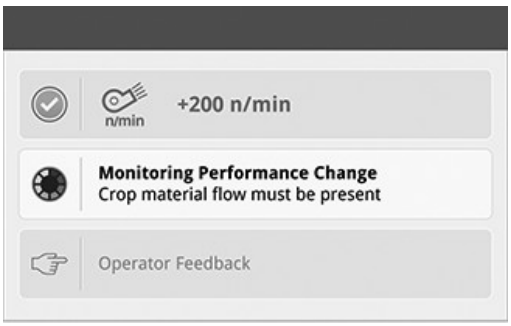
H116585—UN—31JAN17

Monitoring Performance Change

Normal Operation:

NOTE: The system begins the process of evaluating consistent harvesting conditions before advancing normally.

You can return to harvesting.



H118265—UN—30JAN17

Monitoring Performance Change

Machine must be in consistent harvesting conditions:

NOTE: A message appears on the display.

NOTE: If ICA is not detecting consistent harvesting conditions, a condition is listed to help you understand what steps need to be taken to continue.

- Separator must be engaged.
- Header must be engaged.
- Engine must be in high idle.
- Header must be below record stop height.
- Machine must have a steady ground speed.
- Crop material flow must be present.

SS43267,0000940-19-21JUN17

Progress

Progress shows the current stage of the session.



H116301—UN—25JAN17

Report Issues— select areas you wish to improve.



H116306—UN—25JAN17

Review Solutions

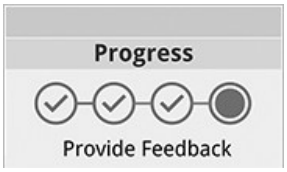
Review Solutions— choose a setting to adjust to improve your machine performance.



H116327—UN—25JAN17

Applying Solution

Applying Solution— apply the in-cab or out-of-cab solution that was recommended.



H116329—UN—25JAN17

Provide Feedback

Provide Feedback— let the machine know whether the solution made performance worse, same, better or fixed.



H118256—UN—30JAN17

Optimization Complete

Optimization Complete— Integrated Combine Adjustment has completed the optimization process.

SS43267,0000941-19-24JAN17

Controls Setup

Access Controls Setup

Access Application Through Display:



H113668—UN—22OCT15

Menu

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H118152—UN—20JAN17

Controls Setup

3. Controls Setup



H118151—UN—20JAN17

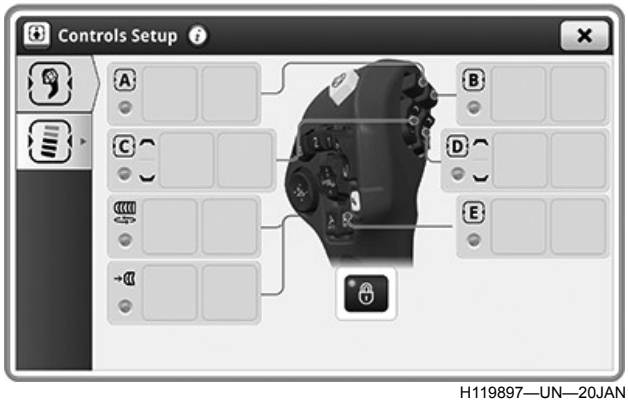
Controls Setup Application Button

Access Application Through Navigation Bar:

Press Controls Setup button on navigation bar below display.

SS43267,00008E4-19-19JAN17

Controls Setup Overview



H119897—UN—20JAN17

Controls Setup

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Controls Setup application is used to make new assignments or access custom presets that you previously configured on the Multi-Function Lever or the CommandARM™ .

NOTE: Controls Setup contains no default assignments; the Multi-Function Lever and CommandARM™ reset to a locked state upon key cycle.

NOTE: Display must be booted in order for you to disengage the Control Group locks for function assignment. Control Group refers to the reconfigurable buttons on both the Multi-Function Lever and CommandARM™.



H118141—UN—20JAN17

Multi-Function Lever Tab

Alignment Tabs Available in the Controls Setup Application:

Multi-Function Lever— select to access the Multi-Function Lever presets.



H118139—UN—20JAN17

CommandARM™ Tab

CommandARM™— select to access the CommandARM™ presets.



H118169—UN—20JAN17

Highlighted Tab

Highlighted tab— indicates which preset is selected.

NOTE: The on-screen Lock Indicator is illuminated whenever the displayed control group is locked with the Control Group Lock button on the CommandARM™. Applications or Functions setup will not operate.

CommandARM is a trademark of Deere & Company



H118140—UN—20JAN17

Lock Indicator

Lock Indicator— illuminates to indicate that the Control Group Lock button is locked.



H116648—UN—19DEC16

Close

Select to close the Controls Setup application.

SS43267,000090E-19-19JAN17

Multi-Function Lever - Controls Setup

Multi-Function Lever Controls Setup is used to assign Applications and Functions to buttons on the Multi-Function Lever.



H118141—UN—20JAN17

Multi-Function Lever

Items Accessible on the Multi-Function Lever Controls Setup Page:

Multi-Function Lever— allows you to make assignments to the buttons on the Multi-Function Lever.



H118143—UN—20JAN17

Programmable Button A



H118147—UN—20JAN17

Programmable Button B



H118149—UN—20JAN17

Programmable Button E

Buttons A, B, and E— are used for applications that require you to select from single position assignments.



H118144—UN—20JAN17

Programmable Button C



H118148—UN—20JAN17

Programmable Button D

Buttons C and D— are used for applications that require you to select from multiple positions, to increase or decrease a value, or to make a left-hand or right-hand adjustment.



H118145—UN—20JAN17

Scroll Button



H118146—UN—20JAN17

Scroll Press Button

Scroll Button— is used to select function assignments, increase or decrease a value, or make a left-hand or right-hand adjustment.



H118140—UN—20JAN17

Lock Indicator

Lock Indicator— illuminates to indicate that the Control Group Lock button is locked.

SS43267,000090F-19-03FEB17

Multi-Function Lever

Multi-Function Lever Controls Setup is used to assign Applications and Functions to buttons on the Multi-Function Lever.

Procedure to Modify:



H118141—UN—20JAN17

Multi-Function Lever

Select the Multi-Function Lever assignments tab.



H114656—UN—05JAN17

Active State

NOTE: As you select the Control Group Lock button all previously assigned custom controls are illuminated "Green" to indicate their active state, and the on-screen Lock Indicator is hidden.



H118140—UN—20JAN17

Lock Indicator

NOTE: If there are no custom assignments present, the application does not open upon unlocking the Control Group.



H118143—UN—20JAN17

Programmable Button A



H118147—UN—20JAN17

Programmable Button B



H118149—UN—20JAN17

Programmable Button E

Buttons A, B, and E— are used for applications that require you to select from single position assignments.

NOTE: The on-screen Lock Indicator is present whenever the displayed Control Group is locked with the Control Group Lock button on the CommandARM™. Control Group locks re-engage on key cycle.



H118144—UN—20JAN17

Programmable Button C



H118148—UN—20JAN17

Programmable Button D

Buttons C and D— are used for applications that require you to select from multiple positions, to increase or decrease a value, or to make a left-hand or right-hand adjustment.



H118145—UN—20JAN17

Scroll Button



H118146—UN—20JAN17

Scroll Press Button

NOTE: The Scroll Button bypasses the "Select Application" list, offering a limited and distinct number of functional options.

Scroll Button— is used to select function assignments, increase or decrease a value, or make a left-hand or right-hand adjustment.

NOTE: Assigning functions to either the Scroll Button "roll" or "press" action works the same as other assignments.



H118140—UN—20JAN17

Lock Indicator

Lock Indicator— illuminates to indicate that the Control Group Lock button is locked.



H116648—UN—19DEC16

Close

Select to close the Controls Setup application.

SS43267,0000910-19-16MAY17

CommandARM™ - Controls Setup

CommandARM™ Controls Setup is used to assign Application and Functions to the CommandARM™.



H118139—UN—20JAN17

CommandARM™ Button

Items Accessible on the CommandARM™ Controls Setup Page:

CommandARM™ Button— allows you to make assignments to the buttons on the CommandARM™.



H118159—UN—20JAN17

Programmable Button 1



H118161—UN—20JAN17

Programmable Button 2

Buttons 1 and 2— are used for applications that require you to select from multiple positions, to increase or decrease a value, or to make a left-hand or right-hand adjustment.



H118160—UN—20JAN17

Programmable Button 3



H118162—UN—20JAN17

Programmable Button 4

Buttons 3 and 4— are used for applications that require you to select from single position assignments.



H118140—UN—20JAN17

Lock Indicator

Lock Indicator— illuminates to indicate that the Control Group Lock button is locked.

SS43267,0000911-19-03FEB17

CommandARM is a trademark of Deere & Company

CommandARM™

CommandARM™ Controls Setup is used to assign Application and Functions to the CommandARM™.

Procedure to Modify:



H118139—UN—20JAN17

CommandARM™

Select the CommandARM™ assignments tab.



H114656—UN—05JAN17

Active State



H118140—UN—20JAN17

Lock Indicator

NOTE: When you select the Control Group Lock button, all previously assigned custom controls are illuminated "Green" to indicate their active state, and the on-screen Lock Indicator is hidden.

NOTE: If there are no custom assignments present, the application does not open upon unlocking the control group.



H118159—UN—20JAN17

Programmable Button 1



H118161—UN—20JAN17

Programmable Button 2

Buttons 1 and 2— are used for applications that require you to select from multiple positions, to increase or decrease a value, or to make a left-hand or right-hand adjustment.



H118160—UN—20JAN17

Programmable Button 3



H118162—UN—20JAN17

Programmable Button 4

Buttons 3 and 4— are used for applications that require you to select from single position assignments.

NOTE: The on-screen Lock Indicator is present whenever the displayed Control Group is locked with the Control Group Lock button on the CommandARM™. Control Group locks re-engage on key cycle.



H118140—UN—20JAN17

Lock Indicator

Lock Indicator— illuminates to indicate that the Control Group Lock button is locked.



H116648—UN—19DEC16

Close

Select to close the Controls Setup application.

SS43267,0000912-19-16MAY17

Create Single Position Assignments

Buttons A and B or 3 and 4 allow you to assign and activate your preferred Applications, then make Function assignments.

NOTE: For additional Application and Function information, select the Help Contents button.

Procedure to Modify:

Use Controls Setup reconfigurable buttons to personalize your machine and perform tasks quickly with the press of a button.

NOTE: The Example shown is typical for making Application assignments. Select to view a list of available Application or Function assignments.

Example: This example will assign the AutoTrac™ Guidance application to button A.



H118507—UN—20JAN17

Select Application

1. Select to activate the Select Application display.



H118506—UN—20JAN17

Remove Assignment

NOTE: If an assignment is already present on the Control Setup display, the "Remove Assignment" option is placed at the top of the list. Select to close and clear the assignment.

CommandARM is a trademark of Deere & Company

AutoTrac is a trademark of Deere & Company



H118156—UN—20JAN17

AutoTrac™ Guidance



H118509—UN—20JAN17

AutoTrac™ Guidance Selected

2. Select the AutoTrac™ Guidance application.



H118157—UN—20JAN17

Center Track



H118510—UN—20JAN17

Center Track Selected

3. Select Center Track function.

NOTE: After selecting the function, the control assignment is made.



H116648—UN—19DEC16

Close

4. Select to close the Controls Setup application.

SS43267,0000913-19-16MAY17

Create Dual Position Assignments

Buttons C and D or 1 and 2 allow you to assign and activate your preferred Applications, then make Function assignments.

NOTE: For additional Application and Function information, select the Help Contents button.

Procedure to Modify:

Use Controls Setup reconfigurable buttons to personalize your machine and perform tasks quickly with the press of a button.

NOTE: The Example shown is typical for making Application and Function assignments. Select to view a list of available Application or Function assignments.

Example: This example will assign the Unloading Auger Tip Fold/Unfold function to button C. This will allow you to fold/unfold the auger tip any time you press button C.



H118508—UN—20JAN17

Select Application

1. Select to activate the Select Application display.



H118506—UN—20JAN17

Remove Assignment

NOTE: If an assignment is already present on the Control Setup display, the "Remove Assignment" option is placed at the top of the list. Select to close and clear the assignment.



H118166—UN—20JAN17

Folding



H118536—UN—20JAN17

Folding Selected

2. Select the Folding application.



H118165—UN—20JAN17

Unloading Auger Top Fold/Unfold



H118537—UN—20JAN17

Unloading Auger Tip Fold/Unfold Selected

3. Select Unloading Auger Tip Fold/Unfold function.

NOTE: After selecting the function, the control assignment is made.



H116648—UN—19DEC16

Close

4. Select to close the Controls Setup application.

SS43267,0000914-19-21JUN17

Scroll Button



H118504—UN—20JAN17

Scroll Button

Scroll Button is used to select Function assignments,

increase or decrease a value, or make a left-hand or right-hand adjustment.

NOTE: Assigning functions to either the Scroll Button "roll" or "press" action works the same as other assignments.

SS43267,0000915-19-20JAN17

Application Assignments

Allows you to assign your preferred Application and Functions.



H118511—UN—20JAN17

AutoTrac™ Guidance

Application Assignments Available:

NOTE: Only application assignments available for your machine will appear.

AutoTrac™ Guidance Application— allows you to access functions to make guidance system adjustments.



H118515—UN—20JAN17

Folding

Folding Application— allows you to access functions to Fold/Unfold the Unloading Auger Tip and to Fold/Unfold a Folding Head.



H118514—UN—20JAN17

Header

Header Application— allows you to access functions to adjust front-end equipment.

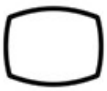


H118517—UN—20JAN17

Residue Management

Residue Application— allows you to access the residue management functions.

AutoTrac is a trademark of Deere & Company



H118512—UN—20JAN17

Display

Display Application— allows you to access the display.



H118516—UN—20JAN17

Transmission

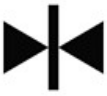
Transmission Application— allows you to access the transmission functions.

SS43267,0000916-19-16MAY17

Function Assignments

The programmable and Scroll buttons allow you to make function assignments, select from multiple positions, to increase or decrease a value, or to make a left-hand or right-hand adjustment. Use the Scroll Button to assign function assignments.

NOTE: For additional Application and Function information, select the Help Contents button.



H118518—UN—20JAN17

Center Track

Function Assignments Available:

AutoTrac™ Guidance

Center Track— select to establish a new track.



H118519—UN—20JAN17

Shift Track

Shift Track— select to make left-hand or right-hand adjustments to your track.



H118520—UN—20JAN17

Swap Track

Swap Track— select to change from the current guidance system track you are using and change to the next track.



H118521—UN—20JAN17

Close Overlay

Display

Close Overlay— select to close the overlay.



H118522—UN—20JAN17

Run Page Swap

Run Page Swap— select to change the displayed run page to the next or previous page in the system.



H118524—UN—20JAN17

Dial-A-Speed™

Header

Dial-A-Speed™ — select to change the speed of the reel or the belt pickup as needed.



H118525—UN—20JAN17

AHHC Encoder

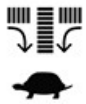
Automatic Header Height Control (AHHC) Encoder — select to adjust the header height.



H118526—UN—20JAN17

Draper Belt Speed

Draper Belt Speed— select to increase or decrease the draper belt speed.



H118527—UN—20JAN17

Draper Belt Speed Slow Down

Draper Belt Speed Slow Down— select to slow down the draper belt speed.



H118528—UN—20JAN17

Feeder House Tilt

Feeder House Tilt— select to increase or decrease the angle of the feeder house tilt frame.



H118529—UN—20JAN17

Cutterbar Extend/Retract

Cutterbar Extend/Retract— select to extend or retract the cutterbar.



H118530—UN—20JAN17

Draper Platform Tilt

Draper Platform Tilt— select to tilt the draper platform up and down.



H118532—UN—20JAN17

Unloading Auger Tip

Folding

Unloading Auger Tip— select to Fold/Unfold the Unloading Auger Tip.



H118533—UN—20JAN17

Folding Head

Folding Head— select to Fold/Unfold the Folding Head.

Dial-A-Speed is a trademark of Deere & Company



H118534—UN—20JAN17

ProDrive™ Speed Setpoint

Transmission

ProDrive™ Speed Setpoint— select to increase or decrease the transmission setpoint.



H118535—UN—20JAN17

Residue Direction Swap

Residue Management

Residue Direction Swap— select to change the direction of the residue discharge from one side to the other side.

SS43267,0000917-19-16MAY17

ProDrive is a trademark of Deere & Company

Residue Management

Access Residue Management

Access Application Through Display:



H113668—UN—22OCT15

Menu

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H114082—UN—03JAN17

Residue Management

3. Residue Management



H116635—UN—03JAN17

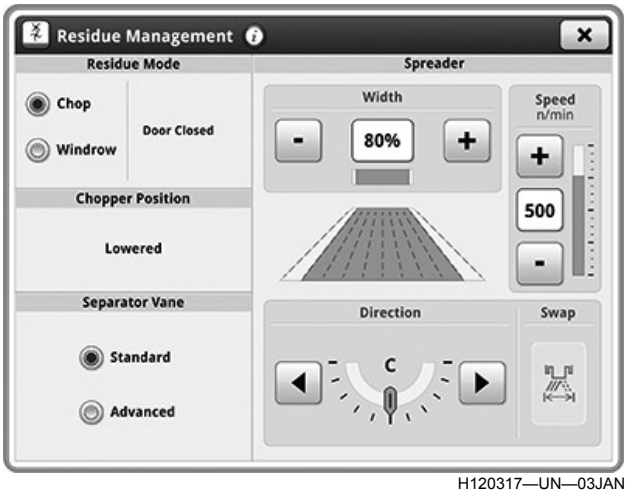
Residue Management Application Button

Access Application Through Navigation Bar:

Press Residue Management button on navigation bar below display.

SS43267,0000891-19-27JAN17

Residue Management



H120317—UN—03JAN17

Residue Management

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Residue Management allows you to adjust residue distribution as desired based on machine configuration.



H116638—UN—03JAN17

Residue Mode

Items Accessible on Residue Management Main Page:

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Residue Mode— select between Chopping and Windrowing functions.



H116639—UN—03JAN17

Chopper Position

Chopper Position— shows current position of chopper.



H118116—UN—03JAN17

Separator Vane

Separator Vane— select between Standard and Advanced separator vane position.



H116988—UN—03JAN17

Width

Width— controls the spread width of chaff and straw by adjusting spreader speed or shroud position based on machine configuration.



H116987—UN—04JAN17

Speed

Speed— increases or decreases spreader speed.



H117001—UN—03JAN17

Direction

Direction— changes chaff and straw spreading direction.

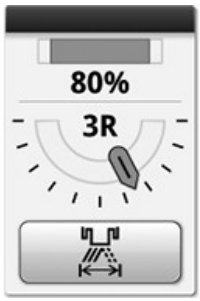


H118304—UN—03JAN17

Swap

Swap— quickly adjusts the residue dispersal in the opposite direction.

Out of Cab Adjustments— mechanical adjustments made outside of the cab.



H116641—UN—04JAN17

Spread

Run Page Modules

Modules for this application can be added to run pages using Layout Manager.

Example:

Spread— controls the width and direction of chaff and straw distribution.

NOTE: Different modules can be available for your application.



H116642—UN—03JAN17

Residue

Shortcut Keys

Shortcut keys for this application can be added to the shortcut bar using Layout Manager.

Example:

Residue— use for quick access to change residue dispersal direction. Light is illuminated toward direction of residue dispersal. If no illumination then residue dispersal is centered.

NOTE: Different shortcut keys can be available for your application.

SS43267,0000804-19-03FEB17

Residue Mode

Select Chop or Windrow Residue Mode option for desired straw and chaff processing.

Select Windrow When:

Select Windrow to leave a windrow of residue behind the machine.

Machines Equipped With Premium Residue System Only: In Windrow mode straw bypasses the chopper while chaff is still being chopped and spread. The straw discharges from the separator into a windrow behind the machine. This leaves a cleaner windrow.

Select Chop When:

Select Chop to send residue through the chopper to minimize residue length.

Windrow Setup:

Non-Premium Residue System: When placed into "Windrow" mode, all other spreader settings are unable to be changed.

NOTE: Settings return to previous states when changed back to "Chop" mode.

NOTE: See Operator's Manual for more information on the following out of cab adjustments.

1. Place cob deflector in small grains position.
2. Shift chopper drive into neutral position.



H116998—UN—03JAN17

Windrow



H116639—UN—03JAN17

Chopper Position

3. Select Windrow or place chopper in raised position.

NOTE: When harvesting low residue volume crops, lower cob deflector into corn position.



H116644—UN—03JAN17

Status Indicator

Status indicator shows status of door.



H116645—UN—03JAN17

Error Detected

Premium Residue ONLY: When an error occurs during a close/open process, the system attempts to return to previously selected state prior to your change request. If it is unable to successfully reach that prior state, the "Tailboard Error" message is displayed, and you must make a mode choice again.

Chop Setup:

NOTE: Chop automatically closes the chop-to-drop door. The chopper cuts the straw discharged from the separator when the chop-to-drop door is closed.

NOTE: Separator must be OFF to change the position of the chop-to-drop door.



H116997—UN—03JAN17

Chop

Select Chop or place chopper in lower position.

CS12167,0000B6D-19-07JUN18

Separator Vane

Change separator vane position to increase grain savings and improve straw quality.

NOTE: Separator must be OFF to change the position of the Separator Vane.

Select Standard When:

- Reduce grain loss.
- Improve crop separating ability.

Select Advanced When:

- Improve straw quality.
- Reduce power consumption.



H116999—UN—03JAN17

Standard

Procedure to Modify:

Select Standard.



H117000—UN—03JAN17

Advanced

Select Advanced.

NOTE: Running separator vanes in advanced position may increase grain losses in certain crops and conditions. Crop dwell time in separator is reduced to improve straw quality.

SS43267,0000893-19-27JAN17

Width

Width adjusts the spread range for chaff and straw by controlling spreader speed or shroud position depending on machine configuration.

NOTE: Adjust the spread width setting before adjusting the spreader speed.

Modify When:

- Increase when chopped material and chaff are not reaching the full width of the cut made by header.
- Decrease when chopped material and chaff are being thrown on to the uncut crop.

Procedure to Modify:

1. Turn on the machine.
2. Engage separator.

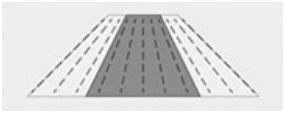


H116988—UN—03JAN17

Width

NOTE: Current setting is displayed by bar gauge.

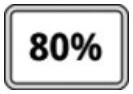
3. Select plus (+) to increase or minus (-) to decrease desired percentage.



H118119—UN—03JAN17

50% Width Percentage

NOTE: When changes are made to the width percentage, the spreader diagram changes as well.



H113699—UN—03JAN17

Input Field

Alternative Procedure to Modify:

NOTE: When width is changed, the bar gauge representing it turns yellow to match the yellow bounding box of the input field.

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired percentage.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.



H114674—UN—03JAN17

Close

3. Select to close.

SS43267,0000894-19-16MAY17

Speed

Spreader speed adjustments allow for optimal distribution of material across the width of the spread.

NOTE: Adjust the spread width setting before adjusting the spreader speed.

Modify When:

- Changing crop type.
- Size of material exiting chopper is getting larger or smaller.
- Changing header size.
- Compensating for blowing wind.



H116987—UN—04JAN17

Speed

Procedure to Modify:

1. Turn on the machine.
2. Engage separator.

NOTE: Current setting is displayed by bar gauge.

3. Select plus (+) to increase or (-) to decrease desired speed.

NOTE: When changes are made to the spreader speed, the spreader width diagram will not change. It remains filled to previous width setting regardless of spreader speed adjustments.

Allowable Settings for Corn:

Minimum: 350

Maximum: 550

Default: 500

Increment: 5

Allowable Settings for Small Grain:

Minimum: 600

Maximum: 800

Default: 700

Increment: 5



H118126—UN—03JAN17

Input Field

Alternative Procedure to Modify:

NOTE: When speed is changed, the bar gauge representing it turns yellow to match the yellow bounding box of the input field.

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired speed.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.



H114674—UN—03JAN17

Close

3. Select to close.

SS43267,0000895-19-16MAY17

Direction

Direction changes the direction of material exiting the chopper for wind compensation.

Modify When:

- Wind speed changes.
- Wind direction changes.
- Machine direction changes.
- Field changes.
- Terrain changes.



H117001—UN—03JAN17

Direction

Procedure to Modify:

Select to adjust the direction left or right.

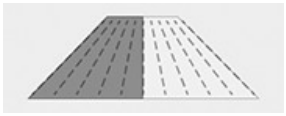
NOTE: When changes are made to the spread direction, the spreader diagram changes as well.

NOTE: If direction is not known, the center marker disappears and dashes appear for the position value.



H118133—UN—03JAN17

Direction



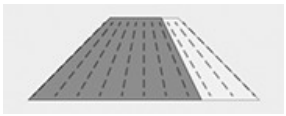
H118128—UN—03JAN17

Width



H118134—UN—03JAN17

Direction



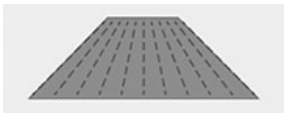
H118129—UN—03JAN17

Width



H118135—UN—03JAN17

Direction



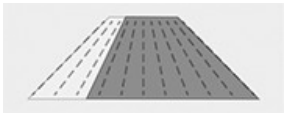
H118130—UN—03JAN17

Width



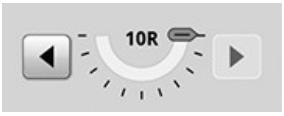
H118136—UN—03JAN17

Direction



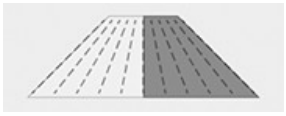
H118131—UN—03JAN17

Width



H118137—UN—03JAN17

Direction



H118132—UN—03JAN17

Width



H118138—UN—03JAN17

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired direction.
   - Turn dial clockwise to increase value.

- Turn dial counterclockwise to decrease value.



H114674—UN—03JAN17

Close

3. Select to close.

SS43267,0000896-19-03FEB17

Swap

Swap allows you to quickly adjust the residue spread in the opposite direction to compensate for wind interference when turning on headlands.

NOTE: Swap is only available when the Direction adjustment is not in the center position.

Modify When:

Wind is blowing residue and you want to swap residue direction automatically.



H118115—UN—03JAN17

Swap

Procedure to Modify:

Select to activate and deactivate.

NOTE: Messages for spread direction swapping appear whenever the Residue Management application is not open and a swap has been initiated.

SS43267,0000897-19-27JAN17

Out of Cab Adjustments

Adjustments must be made outside the cab to improve residue management and prevent damage of the machine. See Operator's Manual for further crop settings and adjustment procedures.

Out of Cab Adjustments Page:

Crop Diverter/Deflector— select corn or grain position.

IMPORTANT: Place in corn position to prevent cleaning shoe damage while harvesting corn.

Crop Diverter Vanes— adjust vanes to control distribution of material into chopper or spreaders.

Knifebank— select a knifebank position to achieve desired residue length.

IMPORTANT: Knifebank must be fully disengaged for corn.

NOTE: The more engagement, the more power is consumed by the chopper.

Chopper Drive Speed— select high speed for small grains and soybeans and low speed for corn.

SS43267,0000898-19-27JAN17

Access Header

Access Application Through Display:



H113668—UN—22OCT15

Menu

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H113541—UN—19DEC16

Header

3. Header



H117904—UN—19DEC16

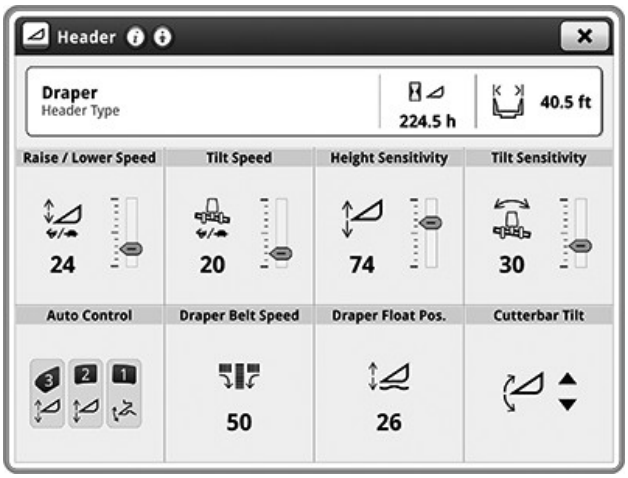
Header Application Button

Access Application Through Navigation Bar:

Press Header button on navigation bar display.

SS43267,00007DD-19-03FEB17

Header



H120312—UN—20DEC16

Header

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Header Main Page shows available features that can be adjusted for your attached header.

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H116126—UN—19DEC16

Header Type

Items Accessible on Header Main Page:

Header Details— change header settings such as width, minimum reel speed, and row width.



H113542—UN—19DEC16

Header Type

Header Type— automatically determined by the front end equipment attached.

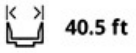
NOTE: If system does not recognize the type of header connected, Unknown Header is displayed.



H113543—UN—19DEC16

Hours

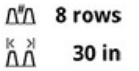
Hours— number of hours per header type recorded by the combine.



H113544—UN—19DEC16

Cut Width

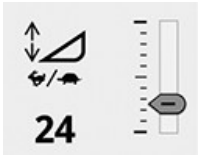
Cut Width— measured width setting appears when platform type headers are detected.



H116127—UN—19DEC16

Row Width

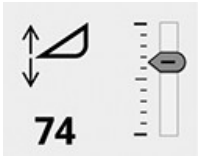
Cut Width— number of rows and row width settings appear when row type headers are detected.



H113728—UN—19DEC16

Raise/Lower Speed

Raise/Lower Speed— controls speed of feeder house raise/lower function when in manual mode.



H114074—UN—19DEC16

Height Sensitivity

Height Sensitivity— controls sensitivity to changes in terrain of header raise/lower in automatic mode.



N118004—UN—22OCT15

Advanced Settings Icon

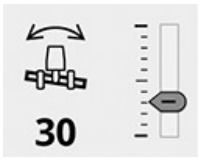
Advanced Settings— allows you to access further adjustments and less common settings.



H116962—UN—19DEC16

Auto Control

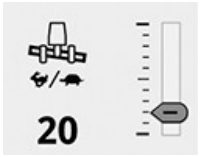
Auto Control— indicates status of which header configurations are enabled.



H113546—UN—19DEC16

Tilt Sensitivity

Tilt Sensitivity— controls sensitivity to changes in terrain of the feeder house lateral tilt movements when in automatic sensing and automatic float modes.



H113545—UN—19DEC16

Tilt Speed

Tilt Speed— controls speed of lateral tilt movements when in manual mode.



H116129—UN—19DEC16

Fore/Aft Tilt

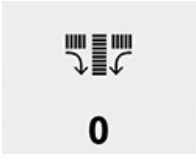
Fore/Aft Tilt— controls the angle of the front face of the feeder house.



H114076—UN—19DEC16

HydraFlex™ Pressure

HydraFlex™ Pressure— controls cutterbar pressure for optimal ground following ability.



H114075—UN—19DEC16

Draper Belt Speed

Draper Belt Speed— controls the speeds of the side draper belts.



H116130—UN—19DEC16

Draper Float Position

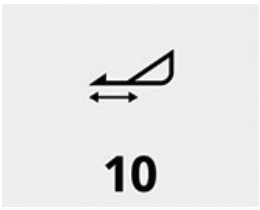
Draper Float Position— controls the pressure in the cylinders for the gauge wheel float arms.



H114077—UN—19DEC16

Cutterbar Tilt

Cutterbar Tilt— controls the angle of the cutterbar in relation to the rest of the platform.



H114081—UN—19DEC16

Cutterbar Position

Cutterbar Position— controls the position of the cutterbar.



H116172—UN—19DEC16

Deck Plate Spacing

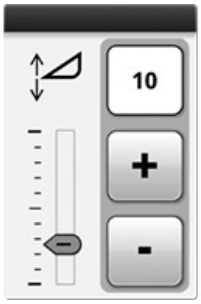
Deck Plate Spacing— displays the deck plate spacing.



H116173—UN—19DEC16

Backshaft Speed

Backshaft Speed— displays backshaft speed.



H116668—UN—20DEC16

Height Sensitivity

Run Page Modules

Modules for this application can be added to run pages using Layout Manager.

Example:

Height Sensitivity— controls sensitivity to changes in terrain of header raise/lower in automatic mode.

NOTE: Different modules can be available for your application.

SS43267,00007DE-19-03FEB17

Header Details

Header Details includes settings such as width, minimum reel speed, and row width.

NOTE: Each header type has factory default settings for all header settings. Connecting a header of a given type for the first time automatically loads the factory default settings. You can change header settings while the header is connected. Connecting any header of the same type automatically uses settings for that header type, but will not automatically change the settings or hours.



H113523—UN—19DEC16

Width

Items Accessible on the Header Details Page:

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Width— set the cut width.



H113525—UN—19DEC16

Width

Width— set the number of rows.



H113526—UN—19DEC16

Row Width

Row Width— spacing between rows.



H113521—UN—19DEC16

Work Recording

Work Recording— set the recording stop height.



H113522—UN—19DEC16

Hours

Hours— number of hours per header type recorded by the combine.



H113527—UN—19DEC16

Reel Installed

Reel— select to indicate to system that header has a reel installed.

EX: If you have a corn head that normally does not have a reel installed, you would select this to tell the machine that a reel is installed.



H113524—UN—19DEC16

Minimum Reel Speed

Minimum Reel Speed— set the minimum reel speed.

SS43267,00007DF-19-16MAY17

Width

Width allows the cut width to be changed when not utilizing full width of the header.

Modify When:

- Not utilizing full width of the header.
- Using for point rows.
- Changing header size.
- Changing cut width for AutoTrac™ and mapping purposes.

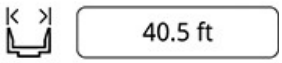


H116649—UN—19DEC16

Header Type

Procedure to Modify:

1. Select Header Type screen area to open Header Details page.



H116131—UN—19DEC16

Width

2. Select to open number pad and enter desired cut width.



H116132—UN—19DEC16

OK

3. Select OK to save value.



H116648—UN—19DEC16

Close

4. Select to close.

SS43267,00007E0-19-27JAN17

Width Corn Head

Width allows the number of rows to be changed when not utilizing all rows of the header.

Modify When:

- Not utilizing all rows of the header.
- Using for point rows.
- Changing the header size.
- Changing row width for AutoTrac™ and mapping purposes.

AutoTrac is a trademark of Deere & Company

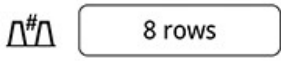


H116650—UN—19DEC16

Header Type

Procedure to Modify:

1. Select Header Type screen area to open Header Details page.



H116171—UN—19DEC16

Rows

2. Select to open number pad and enter desired rows.



H116132—UN—19DEC16

OK

3. Select OK to save value.



H116648—UN—19DEC16

Close

4. Select to close.

SS43267,00007E1-19-27JAN17

Row Width

Row Width allows the spacing between rows to be changed.

Modify To:

NOTE: Modifying row width affects yield mapping.

- Adjust row width spacing to match the header configuration.

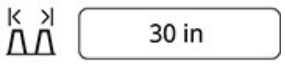


H116650—UN—19DEC16

Header Type

Procedure to Modify:

1. Select Header Type screen area to open Header Details page.



H118576—UN—19DEC16

Row Width

2. Select to open number pad and enter desired row width.



H116132—UN—19DEC16

OK

3. Select OK to save value.



H116648—UN—19DEC16

Close

4. Select to close.

SS43267,00007E2-19-27JAN17

Minimum Reel Speed

Minimum Reel Speed allows you to set the minimum speed at which the reel operates.

Modify When:

- Picking up downed crop. Minimum speed varies based on condition and operator.

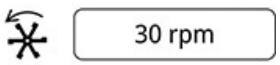


H116649—UN—19DEC16

Header Type

Procedure to Modify:

1. Select Header Type screen area to open Header Details page.



H116133—UN—19DEC16

Minimum Reel Speed

2. Select to open number pad and enter desired minimum reel speed.



H116132—UN—19DEC16

OK

3. Select OK to save value.



H116648—UN—19DEC16

Close

4. Select to close.

SS43267,00007E3-19-27JAN17

Work Recording

Work Recording allows you to set the stop height for turning recording ON/OFF.

NOTE: Work Recording automatically turns OFF above preset height and turns ON below preset height, provided all other conditions are met (separator/header engaged, engine at high idle, and farm/field is set up).

NOTE: If Header Height Sensing or Feeder House Float are active, record stop height setting is irrelevant and Work Recording turns ON, provided all other conditions are met (separator/header engaged, engine at high idle, farm/field is set up).

Modify When:

- Changing crop conditions (taller vs. shorter).
- Changing header types.
- Changing fields and terrain.
- Recording stays on while out of crop or doesn't turn on when in crop.



H116650—UN—19DEC16

Header Type

Procedure to Modify:

1. Raise or lower header to desired record stop height.
2. Select Header Type screen area to open Header Details page.



H113521—UN—19DEC16

Set to Current Height

3. Select Set to Current height button.



H116648—UN—19DEC16

Close

4. Select to close.

SS43267,00007E4-19-16MAY17

Hours

Hours allows you to set the total number hours for the header type attached.

NOTE: Combine stores hours by header type. If multiple headers of the same type are used on the same combine, you have to enter the appropriate hours for the attached header.

Modify When:

- You want to track the amount of run time for a particular field or fields.
- You have multiple heads that may be moved to different combines.
- You want to zero the hours at the beginning of the season.



H116649—UN—19DEC16

Header Type

Procedure to Modify:

1. Select Header Type screen area to open Header Details page.



H116134—UN—19DEC16

Hours

2. Select to open number pad and enter desired hours.



H116132—UN—19DEC16

OK

3. Select OK to save value.



H116648—UN—19DEC16

Close

4. Select to close.

SS43267,00007E5-19-27JAN17

Raise/Lower Speed

Raise/Lower Speed controls the speed which the feeder house raises or lowers when using the manual raise/lower buttons on the multi-function lever.

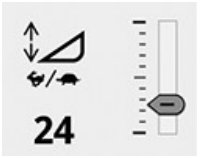
Modify When:

NOTE: Calibration is needed when changing header regardless of size and type unless previously calibrated.

- Header size and type affect raise/lower speed.
- Increase Raise/Lower Speed if the header is slow to react to changing ground conditions.
- Decrease Raise/Lower Speed if the header over-compensates in changing ground conditions.
- Loading/unloading the header from trailer requires lower raise/lower speed.

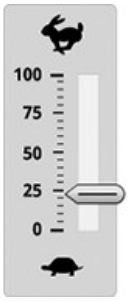
Procedure to Modify:

1. Select screen area under Raise/Lower Speed to open Raise/Lower Speed page.



H113728—UN—19DEC16

Raise/Lower Speed



H113513—UN—20DEC16

Slide Bar

NOTE: Slide bar displays current speed.



H116141—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired speed.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1



H116648—UN—19DEC16

Close

3. Select to close.



H116140—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1

SS43267,00007E6-19-27JAN17

Tilt Speed

Tilt Speed controls rate of the lateral tilt feeder house movements when in manual rate mode.

NOTE: Manual Tilt Speed function only works closed center hydraulic machines equipped with lateral tilt feeder house.

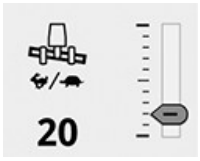
Modify When:

NOTE: Calibration is needed when changing header regardless of size and type unless the specific header was previously calibrated.

- Header size and type affect tilt speed.
- Increase Tilt Speed if the header is slow to react to changing ground conditions.
- Decrease Tilt Speed if the header over-compensates in changing ground conditions.
- Loading/unloading the header from trailer requires slower tilt speed.

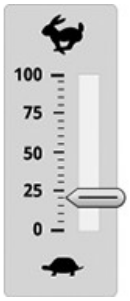
Procedure to Modify:

1. Select screen area under Tilt Speed to open Tilt Speed page.



H113545—UN—19DEC16

Tilt Speed



H113514—UN—20DEC16

Slide Bar

NOTE: Slide bar displays current speed.



H116141—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired speed.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1



H116648—UN—19DEC16

Close

3. Select to close.



H116140—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1

SS43267,00007E7-19-16MAY17

Height Sensitivity

Height Sensitivity controls the speed of which the feeder house will raise/lower in automatic mode to accommodate the terrain.

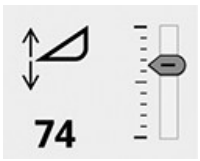
NOTE: Increasing sensitivity causes feeder house to respond faster to changing terrain features.

Modify When:

- Increase Height Sensitivity if the header is slow to react to changing ground conditions.
- Decrease Height Sensitivity if the header is leaving wavy stubble off the ground or pulsing up and down while on the ground.

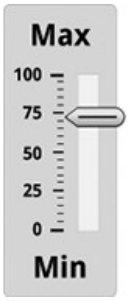
Procedure to Modify:

1. Select screen area under Height Sensitivity to open Height Sensitivity page.



H114074—UN—19DEC16

Height Sensitivity



H113515—UN—20DEC16

Slide Bar

NOTE: Slide bar displays current sensitivity.



H118578—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired sensitivity.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1



H116648—UN—19DEC16

Close

3. Select to close.



H116140—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1

SS43267,00007E8-19-16MAY17

Tilt Sensitivity

Tilt Sensitivity controls the speed at which the feeder house tilts to accommodate changes in terrain. Increasing sensitivity causes feeder house to react faster.

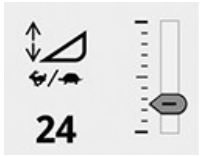
NOTE: If operating 600F and 600FD, HydraFlex™ Pressure settings may also affect header height sensitivity.

Modify When:

- Increase Tilt Sensitivity if the header is slow to react to changing ground conditions.
- Decrease Tilt Sensitivity if the header is leaving wavy stubble off the ground or pulsing side to side while on the ground.

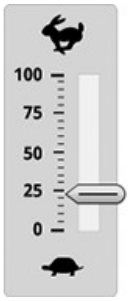
Procedure to Modify:

1. Select screen area under Tilt Sensitivity to open Tilt Sensitivity page.



H113728—UN—19DEC16

Raise/Lower Speed



H113513—UN—20DEC16

Slide Bar

NOTE: Slide bar displays current sensitivity.



H116141—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired sensitivity.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1



H116648—UN—19DEC16

Close

3. Select to close.



H116140—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum: 0

   Maximum: 100

   Default: 50

   Increment: 1

SS43267,00007E9-19-16MAY17

Fore/Aft Tilt

Fore/Aft Tilt allows you to quickly move the feeder house face Fore and Aft to achieve optimal cutting performance of the header in challenging conditions.

NOTE: Fore/Aft Tilt minimum and maximum settings are different for each header type.

Modify When:

- Adjust Fore or Aft to prevent pushing or dragging wet or dense residual residue.
- Adjust Fore or Aft to better attach or detach the header.
- Adjust Fore or Aft for optimal conveying of crop material into the feeder house.

Tilt Feeder House Fore:

- Picking up downed crop.
- Cutting closer to the ground.

Tilt Feeder House Aft:

- Material is being pushed by the cutter bar. Move aft to reduce lost material.
- For standing crop, tilting aft can optimize feeding/conveying material into the machine.



H116129—UN—19DEC16

Fore/Aft Tilt

Procedure to Modify:

NOTE: If operating 600F or 600FD, HydraFlex™ Pressure settings also affect header height sensitivity.

1. Select screen area under Fore/Aft Tilt to open Fore/Aft page.



H116141—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired position.

NOTE: Minimum and maximum settings will be affected by header type and calibration. See Calibrations application for more information on calibration procedures.



H116648—UN—19DEC16

Close

3. Select to close.



H116140—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

SS43267,00007EA-19-02MAR18

Auto Header Control

Auto Header Control shows the status of Control Preview, Header Automation, and Resume Preferences.



H116962—UN—19DEC16

Auto Control

Select screen area under Auto Control to open.

NOTE: Auto Header Control icons change depending on how they are set up and which header is attached to the machine.

Items Accessible on Auto Header Controls Page:

Control Preview— displays status of available features.

Header Automation— displays available automated functions.

Resume Preferences— displays available resume functions.

SS43267,00007EB-19-27JAN17

HydraFlex is a trademark of Deere & Company

Control Preview



H116968—UN—20DEC16

Control Preview

Control Preview displays status of available features.

NOTE: Header Automation and Resume features (listed as icons under the activation buttons 1, 2, and 3) activate when corresponding button is pressed.

SS43267,00007EC-19-27JAN17

Header Automation

Enable or disable header automation functions.

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H116995—UN—19DEC16

Defaults

Defaults— select to use defaults of header type connected.



H116995—UN—19DEC16

Custom

Custom— select to choose which automated systems you want to enable based on your personal operating preferences.

NOTE: ON/OFF toggles are unable to be switched until the "Custom" option is selected.



H116168—UN—19DEC16

Alert

NOTE: When a given automation option has issues preventing it from being enabled, the toggle switch is replaced with a generic issue alert icon button.



H116161—UN—19DEC16

Height Resume

Height Resume— select position of the feeder house relative to machine chassis and return to that position automatically.



H116160—UN—19DEC16

Feeder House Float

Feeder House Float— allows a rigid header to be operated in contact with the ground and maintain a set pressure.



H113720—UN—19DEC16

Height Sensing

Height Sensing (Off Ground)— select the position of the header relative to the ground and return to that position automatically.



H113720—UN—19DEC16

Height Sensing

Height Sensing (On Ground)— adjust cutterbar ground pressure and return to that setting automatically.



H113721—UN—19DEC16

Lateral Tilt

Lateral Tilt— maintain the header position relative to ground.

SS43267,00007ED-19-27JAN17

Height Resume

Height Resume allows you to select position of the feeder house relative to the machine and return to that position automatically.

Modify When:

- Changing crop height throughout the same field.
- Changing the header type.
- Ground terrain changes.
- Changing from cutting on-ground to cutting off-ground.

System Is Enabled When:

- Properly equipped header is connected to the machine.
- Engine is running.
- Road transport disconnect switch is in field position.
- Height Resume system is ON.
- Header is engaged.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main screen.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Height Resume ON/OFF.



H116168—UN—19DEC16

Alert Icon

NOTE: If the automation option has issues preventing it from being enabled, the ON/OFF toggle is replaced with an alert icon. Selecting this button brings up information to aid in troubleshooting the issues.

NOTE: NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116346—UN—19DEC16

Activation Buttons

3. Press the desired activation button.

NOTE: Height Resume will return to last known adjustment setting.



H116353—UN—19DEC16

Height Resume

NOTE: Height Resume icon appears on the corner post display.



H116354—UN—19DEC16

Activation Number

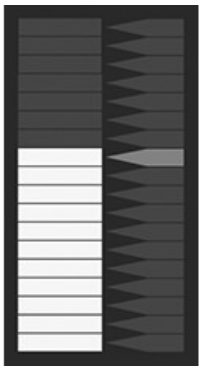
Activation number on the corner post display indicates which button was selected.



H116347—UN—20DEC16

Adjustment Dial

4. Adjust height using header adjustment dial.
   - Turn header adjustment dial clockwise to raise the header and setpoint.
   - Turn header adjustment dial counterclockwise to lower the header and setpoint.



H116356—UN—20DEC16

Bar Graph

Bar graph on the corner post display shows the header's relative position based on header height sensor linked to the header.



H118305—UN—19DEC16

Numeric Display

Numeric display on the corner post display shows the header's relative position based on header height sensor linked to the header.



H116348—UN—19DEC16

Raise/Lower

Using the header raise/lower switch temporarily deactivates system.

NOTE: Pressing and holding the header raise/lower switch for 5 s disables the system.

Press activation buttons 1, 2, or 3 to reactivate system. Header automatically moves to last known setting.



H116648—UN—19DEC16

Close

5. Select to close.

SS43267,00007EE-19-16MAY17

Height Sensing—Off Ground

Allows you to select the position of the header relative to the ground and return to that position automatically.

Modify When:

NOTE: Calibration is required when platform is initially connected to the combine. If a different platform of the same type is connected, the calibration should be repeated.

- Header is not following contour of ground.
- Cutting off the ground using height sensing arms. HydraFlex™ Pressure can be increased to lock the header in a rigid position.
- Header appears to be cutting too low. Raise height setting.
- Header rides over the top or leaves uncut crop. Lower height setting.
- Changing header type.
- Ground terrain changes.

System Is Enabled When:

- Properly equipped header is connected to the machine.
- Engine is running.
- Road transport disconnect switch is in field position.
- Height Sensing system is ON.
- Header is engaged.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main page.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Height Sensing ON/OFF.



H116168—UN—19DEC16

Alert Icon

HydraFlex is a trademark of Deere & Company

NOTE: When a given automation option has issues preventing it from being enabled, the toggle switch is replaced with a generic issue alert icon button. Selecting this button brings up a message dialogue with information to aid in troubleshooting the issues.

NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116346—UN—19DEC16

Activation Buttons

3. Press the desired activation button.

NOTE: Height Sensing will return to last known adjustment setting.



H116358—UN—19DEC16

Height Sensing

NOTE: Height Sensing icon appears on the corner post display.



H116354—UN—19DEC16

Activation Number

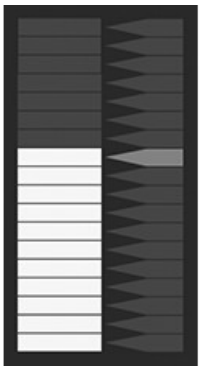
Activation number on the corner post display indicates which button was selected.



H116347—UN—20DEC16

Adjustment Dial

4. Change the height setpoint by pressing desired activation button and adjust height using header adjustment dial.
   - Turn header adjustment dial clockwise to raise the header and setpoint.
   - Turn header adjustment dial counterclockwise to lower the header and setpoint.



H116356—UN—20DEC16

Bar Graph

Bar graph on the corner post display shows the header's relative position based on header height sensor linked to the feeder house.



H118305—UN—19DEC16

Numeric Display

Numeric display on the corner post display shows the header's relative position based on header height sensor linked to the feeder house.



H116348—UN—19DEC16

Raise/Lower

Using the header raise/lower switch temporarily deactivates system.

NOTE: Pressing and holding the header raise/lower switch for 5 s disables the system.

NOTE: Header lower switch can be set to immediately disable system until activation button is pressed. See your John Deere dealer for further information.

NOTE: Header lower switch can be set not to reactivate system when header lower switch is pressed. See your John Deere dealer for further information.

Press activation buttons 1, 2, or 3 to reactivate system. Header automatically moves to last known setting.



H116648—UN—19DEC16

Close

5. Select to close.

SS43267,00007EF-19-27JAN17

Height Sensing—On Ground

On ground Height Sensing allows you to adjust cutterbar ground pressure and return to that setting automatically.

Modify When:

NOTE: Calibration is needed when changing the header regardless of size and type unless previously calibrated.

- Cutterbar is not following contour of the ground.
- Increase HydraFlex™ pressure when cutterbar appears to be pushing.
- Decrease HydraFlex™ pressure when cutterbar rides over the top or leaves uncut crop.
- Changing header type.

System Is Enabled When:

- Properly equipped header is connected to machine.
- Engine is running.
- Road transport disconnect switch is in field position.
- Height Sensing system is ON.
- Header is engaged.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main page.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Height Sensing ON/OFF.



H116168—UN—19DEC16

Alert Icon

NOTE: When a given automation option has issues preventing it from being enabled, the toggle switch is replaced with a generic issue alert icon button. Selecting this button brings up a message dialogue with information to aid in troubleshooting the issues.

NOTE: NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116346—UN—19DEC16

Activation Buttons

3. Press the desired activation button.

NOTE: Height Sensing will return to last known adjustment setting.



H116358—UN—19DEC16

Height Sensing

NOTE: Height Sensing icon appears on the corner post display.



H116354—UN—19DEC16

Activation Number

Activation number on the corner post display indicates which button was selected.

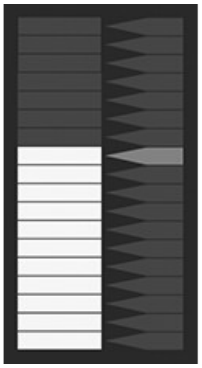
HydraFlex is a trademark of Deere & Company



H116347—UN—20DEC16

Adjustment Dial

4. Change the height setpoint by pressing desired activation button and adjust height using header adjustment dial.
   - Turn header adjustment dial clockwise to raise the header and setpoint.
   - Turn header adjustment dial counterclockwise to lower the header and setpoint.



H116356—UN—20DEC16

Bar Graph

Bar graph on the corner post display shows the header's relative position based on header height sensor linked to the feeder house.



H118305—UN—19DEC16

Numeric Display

Numeric display on the corner post display shows pressure setpoint based on pressure in the cutterbar on the platform.



H116348—UN—19DEC16

Raise/Lower

Using the header raise/lower switch temporarily deactivates system.

NOTE: Pressing and holding the header raise/lower switch for 5 s disables the system.

- Manually adjusting the header height with header lower switch temporarily overrides system until released. Once switch is released, system returns back to automatic mode.

  NOTE: Header lower switch can be set to immediately disable system until activation button is pressed. See your John Deere dealer for further information.

- Manually adjusting the header height with header raise switch temporarily deactivates system until header lower switch is pressed. Once switch is pressed, system reactivates.

  NOTE: Header lower switch can be set not to reactivate system when header lower switch is pressed. See your John Deere dealer for further information.

  Press activation buttons 1, 2, or 3 to reactivate system. Header automatically moves to last known setting.



H116648—UN—19DEC16

Close

5. Select to close.

SS43267,00007F0-19-16MAY17

Feeder House Float

Feeder House Float allows you to select how firmly a rigid header contacts the ground and maintains a set pressure.

Modify When:

- Decrease pressure when ground conditions are firm and the head is leaving taller stubble or not following the ground as desired.
- Increase pressure when ground conditions are soft and the head is pushing material or not following the ground as desired.

System Is Enabled When:

- Properly equipped header is connected to machine.
- Engine is running.
- Road transport disconnect switch is in field position.
- Feeder House Float system is ON.

- Header is engaged.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main screen.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Active Header Float ON/OFF.



H116168—UN—19DEC16

Alert Icon

NOTE: When a given automation option has issues preventing it from being enabled, the toggle switch is replaced with a generic issue alert button. Selecting this button brings up a message dialogue with information to aid in troubleshooting the issues.

NOTE: NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116346—UN—19DEC16

Activation Buttons

3. Press the desired activation button.

NOTE: Header Height Float will return to last known adjustment setting.



H116972—UN—19DEC16

Feeder House Float

NOTE: Header Height Float icon appears on the corner post display.



H116354—UN—19DEC16

Activation Number

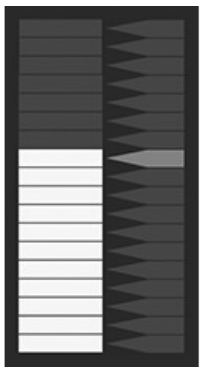
Activation number on the corner post display indicates which button was selected.



H116347—UN—20DEC16

Adjustment Dial

4. Change pressure by pressing desired activation button and adjust the height using header adjustment dial.
   - •Turn header adjustment dial clockwise to raise the header lift cylinder pressure and setpoint.
   - •Turn header adjustment dial counterclockwise to lower the lift cylinder pressure and setpoint.



H116356—UN—20DEC16

Bar Graph

Bar graph display shows the actual header float pressure.



H118305—UN—19DEC16

Numeric Display

Numeric display shows the actual header float pressure.



H116348—UN—19DEC16

Raise/Lower

NOTE: Pressing and holding the header raise/lower switch for 5 s disables the system.

Press activation buttons 1, 2, or 3 to reactivate system. Header automatically moves to last known setting.



H116648—UN—19DEC16

Close

5. Select to close.

SS43267,00007F1-19-16MAY17

Lateral Tilt

Lateral Tilt allows you to maintain header position relative to the ground using the lateral tilt system to equalize the distance to the ground at each end of the header.

Modify When:

- ON: For headers equipped with the appropriate sensors use lateral tilt to maintain a uniform cut height across the width of the head while cutting on or off the ground.
- OFF: You may disable lateral tilt if it is preferred to tilt the head manually by pressing the lateral tilt button on the multi-function lever, or if the header is not equipped with the appropriate sensors.

System Is Enabled When:

- Properly equipped header is connected to machine.
- Engine is running.
- Road transport disconnect switch is in field position.
- Header was calibrated.
- Lateral Tilt system is ON.
- Header is engaged.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main screen.



H116165—UN—19DEC16

Lateral Tilt

2. Select to turn Lateral Tilt ON/OFF.



H116168—UN—19DEC16

Alert Icon

NOTE: When a given automation option has issues preventing it from being enabled, the toggle switch is replaced with a generic issue alert button. Selecting this button brings up a message dialogue with information to aid in troubleshooting the issues.

NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116346—UN—19DEC16

Activation Buttons

3. Press the desired activation button.



H116359—UN—19DEC16

Lateral Tilt

NOTE: Lateral Tilt icon appears on the corner post display.

NOTE: Lateral Tilt will return to last known adjustment setting.



H116354—UN—19DEC16

Activation Number

Activation number on the corner post display indicates which button was selected.



H116348—UN—19DEC16

Raise/Lower

NOTE: Pressing Lateral Tilt switch overrides system. When the switch is released within 5 s, system returns to automatic mode.

Press right side of switch to tilt the header to the right or press left side of switch to tilt the header to the left.

Press activation buttons 1, 2, or 3 to reactivate system. Header automatically returns to last known setting.



H116648—UN—19DEC16

Close

4. Select to close.

SS43267,00007F2-19-21JUN17

Resume Preferences

Enable or disable automatic resume of header automation functions.

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H113524—UN—19DEC16

Dial-A-Speed™

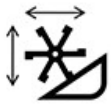
Dial-A-Speed™— automatic control of reel or belt pickup speed relative to ground speed.



H113717—UN—19DEC16

Fore/Aft Resume

Fore/Aft Resume— select fore/aft position and return to that position automatically.



H116163—UN—19DEC16

Reel Position Resume

Reel Position Resume— select reel position and return to that position automatically.



H113532—UN—19DEC16

Deck Plate Position Resume

Deck Plate Position Resume— select position of the deck plates and return to that position automatically.



H113726—UN—19DEC16

Cutterbar Position Resume

Cutterbar Position Resume— allows cutterbar to be adjusted forward and rearward for various plant and stubble heights.

SS43267,00007F3-19-03FEB17

Dial—A—Speed™

Dial-A-Speed™ allows you to change the speed of reel or belt pickup relative to the machine ground speed. Operating speed is a ratio of machine ground speed to reel or belt speed.

Modify When:

- Picking up downed crop. Minimum speed varies based on condition and operator.
- Increase Dial—A—Speed™ if downed crop is not being conveyed.

Set to optimize crop flow:

Dial-A-Speed is a trademark of Deere & Company

- Grain is being threshed by the reel, slow it down by decreasing the Dial-A-Speed™.
- Crop is being pushed over by the reel, speed it up by increasing the Dial-A-Speed™.

System Is Enabled When:

- Properly equipped header is connected to machine.
- Engine is running.
- Road transport disconnect switch is in field position.
- Dial—A—Speed™ system is ON.
- Header and Separator are engaged.
- Ground speed is greater than 0.25 km/h (0.16 mph).



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main screen.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Dial—A—Speed™ ON/OFF.



H116168—UN—19DEC16

Alert Icon

NOTE: When a given automation option has issues preventing it from being enabled, the toggle switch is replaced with a generic issue alert button. Selecting this button brings up a message dialogue with information to aid in troubleshooting the issues.

NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116346—UN—19DEC16

Activation Buttons

3. Press the desired activation button.

NOTE: Dial—A—Speed™ will return to last known adjustment setting.



H116360—UN—19DEC16

Dial-A-Speed™

NOTE: Dial—A—Speed™ icon appears on the corner post display.



H116352—UN—20DEC16

Dial-A-Speed™

4. Change speed using Dial—A—Speed™ adjustment dial.
   - Turn Dial—A—Speed™ adjustment dial clockwise to increase speed.
   - Turn Dial—A—Speed™ adjustment dial counterclockwise to lower/decrease speed.



H118305—UN—19DEC16

Numeric Display

Numeric display on the corner post display shows current speed ratio setting.



H116352—UN—20DEC16

Dial-A-Speed™

NOTE: Changing speed using Dial—A—Speed™ adjustment dial changes preselected setting. To return back to preselected setting, press programmed activation button.

NOTE: The larger the ratio number selected, the faster the reel, or belt pickup, operates with respect to the machine ground speed.



H116648—UN—19DEC16

Close

5. Select to close.

SS43267,00007F4-19-27JAN17

Fore/Aft Resume

Fore/Aft Resume allows you to program a saved fore/aft tilt position of the feeder house frame to any of the Activation buttons 1,2, or 3 on the multi-function lever.

NOTE: You may have a standard position for harvesting standing crop and then another for downed crop. This allows you to quickly switch back and forth.

Modify When:

- Riding over wet or dense residual residue.
- Adjust Fore or Aft to better attach or detach the header.
- Adjust Fore or Aft for optimal conveying of crop material into the feeder house.

Tilt Feeder House Fore When:

- Picking up downed crop.
- Cutting closer to the ground.

Tilt Feeder House Aft When:

- Material is being pushed by the cutterbar. Move aft to reduce lost material.
- For standing crop, tilting aft can optimize feeding/ conveying material into the machine.

System Is Enabled When:

- Engine is running.
- Road transport disconnect switch is in field position.
- Hydraulic Feeder House Fore/Aft Resume system is ON.
- Multi-function lever switches are functionally assigned.
- Head is engaged.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main screen.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Fore/Aft Resume ON/OFF.

NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H118577—UN—19DEC16

Programmable Buttons

3. To change fore/aft tilt setpoint, press desired programmable button C or D and adjust fore/aft tilt using hydraulic feeder house fore/aft tilt switches.



H116346—UN—19DEC16

Activation Buttons

4. Press and hold the desired activation button for 2 seconds to enter desired setting into memory.



H116354—UN—19DEC16

Activation Number

Activation number on the corner post display indicates which button was selected.

5. Push and hold top of switch to tilt feeder house forward or push and hold bottom of switch to tilt feeder house rearward.

   Armrest display shows the feeder house fore/aft tilt position based on a sensor linked to the feeder house.

   Manually moving hydraulic feeder house fore/aft tilt switches on multi-function lever deactivates system.

   Press activation buttons 1, 2, or 3 to reactivate system. Hydraulic feeder house fore/aft tilt automatically moves to preselected position.

NOTE: When the feeder house is raised and the header is engaged, feeder house fore/aft tilt automatically moves forward. This allows the feeder house safety stop to be lowered onto hydraulic cylinder rod. Feeder house fore/aft tilt automatically returns to last known position when lowering.

When the header is disengaged, feeder house fore/aft tilt automatically moves forward upon raising. Feeder house fore/aft tilt will not return to last known position when lowering.



H116648—UN—19DEC16

Close

6. Select to close.

SS43267,00007F5-19-16MAY17

Reel Position Resume

Reel Position Resume allows you to select position of the reel relative to belts, auger, cutterbar, floor and so forth and return to that position automatically.

Modify To:

- Assist in picking up downed crop.
- Clean off the cutter bar at the end of a cut.
- Harvest standing crop of different heights in the same field.

System Is Enabled When:



H116361—UN—19DEC16

Reel Position Resume

NOTE: Reel Position Resume icon appears on the corner post display.

- Properly equipped header (with reel position sensors) is connected to machine and is calibrated.
- Engine is running.
- Feeder house is engaged.
- Road transport disconnect switch is in field position.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main screen.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Reel Position Resume ON/OFF.

NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116349—UN—19DEC16

Reel Lift

3. Use reel lift switch to obtain desired reel height position.



H116346—UN—19DEC16

Activation Buttons

4. Press and hold the desired activation button for 2 seconds to enter desired setting into memory.



H116361—UN—19DEC16

Reel Position Resume

NOTE: Reel Position Resume icon flashes indicating setpoint is saved.



H116354—UN—19DEC16

Activation Number

Activation number on the corner post display indicates which button was selected.

Manually moving reel lift switch on the multi-function lever deactivates reel position.

Press activation buttons 1, 2, or 3 to reactivate system. Reel automatically moves to preselected height.



H116648—UN—19DEC16

Close

5. Select to close.

SS43267,00007F6-19-16MAY17

Deck Plate Position Resume

Deck Plate Position Resume allows you to select spacing of the hydraulic deck plates and return to that position automatically.

Modify When:

Decrease Deck Plate Spacing When:

- Ear shelling at deck plates.
- For an area that has smaller stalks due to flooding or low nutrient level.
- To reduce grain loss and damage at the header if the condition exists.

Increase Deck Plate Spacing When:

- Excessive trash intake from the corn head causes shelled corn to come out of rear of combine.
- Pulling up corn stalks and ears. Gradually open deck plates until stalks feed through rolls more freely.
- For less material other than grain to reduce shoe load.
- For picking up downed corn to improve feeding and reduce the amount of trash the machine takes in.
- To clean out any buildup of material around the deck plates when coming to an end of cut.

System Is Enabled When:

- Properly equipped header (with the deck plate sensors) is connected to machine and is calibrated.
- Engine is running.
- Feeder house is engaged.
- Road transport disconnect switch is in field position.



H116962—UN—19DEC16

Auto Control

Procedure to Modify:

1. Select Auto Control on Header application main screen.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Deck Plate Position Resume ON/OFF.

NOTE: Depending on machine configurations and the setup of your configurable switches and buttons on the multi-function lever, many combinations exist.



H116349—UN—19DEC16

Reel Lift and Fore/Aft

3. Use reel fore/aft switch to obtain desired deck plate spacing.
   - Left side of switch increases spacing.
   - Right side of switch decreases spacing.

   Minimum: 0

   Maximum: 9

   Increment: 1



H116346—UN—19DEC16

Activation Buttons

4. Press and hold the desired activation button for 2 seconds to enter desired setting into memory.



H116362—UN—19DEC16

Deck Plate Position Resume

NOTE: Deck Plate Position Resume icon appears on the corner post display.



H116354—UN—19DEC16

Activation Number

Activation number on corner post display indicates which button was selected.

Manually moving fore/aft switch on the multi-function lever deactivates deck plate resume.

Press Activation Buttons 1, 2, or 3 to reactivate system. Deck plates automatically move to preselected position.

SS43267,00007F7-19-16MAY17

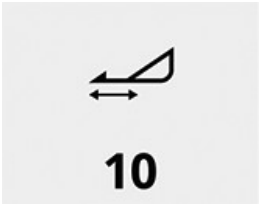
Cutterbar Position

Cutterbar Position adjust allows you to control the position of the cutterbar.

NOTE: Only works on European 600X Header Platforms.

Modify To:

- Extend cutterbar to reduce pre-harvest losses in tall standing crops.
- Retract cutterbar to improve feeding in short standing crops.



H114081—UN—19DEC16

Cutterbar Position

Procedure to Modify:

1. Select screen area under Cutterbar Position to open Cutterbar Position page.



H116150—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired position.



H116648—UN—19DEC16

Close

3. Select to close.



H116151—UN—19DEC16

Wizard

Alternative Procedure to Modify:

NOTE: The combine allows you to enter plant height and desired stubble height in the armrest display. This data, together with the entered amount of crop harvested, allows the combine to make a pre-set of the cutting table for optimized operation.

NOTE: Wizard can be accessed through this overlay or launched from Information and Settings.

1. Select to Start Wizard.



H116152—UN—19DEC16

Number Pad

2. Select to open number pad and enter desired plant height.



H116152—UN—19DEC16

Number Pad

3. Select to open number pad and enter desired stubble height.



H116154—UN—19DEC16

Save

- Select to close the overlay and update position setting.



H116153—UN—19DEC16

Cancel

- Select to exit the wizard without updating position setting.

SS43267,00007F8-19-27JAN17

HydraFlex™ Pressure

HydraFlex™ Pressure helps optimize platform ground-following performance. Allows you to vary the cutterbar ground pressure without affecting the cutting height of the crop.

Modify When:

- Cutting off the ground using height sensing arms. HydraFlex™ Pressure can be increased to lock the cutterbar in a rigid position.
- Increase pressure when cutterbar is pushing.
- Decrease pressure when cutterbar rides over the top or leaves uncut crop.



H114076—UN—19DEC16

HydraFlex™ Pressure

Procedure to Modify:

1. Select screen area under HydraFlex™ Pressure to open HydraFlex™ Pressure page.



H116142—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired pressure.
   - Minimum: 0
   - Maximum: 207 bar (3000 psi)
   - Increment: 4 bar (50 psi)
   - No default



H116648—UN—19DEC16

Close

3. Select to close.

Recommended Settings (600FD):

- 75 bar (1100 psi) for firm ground conditions.
- 90 bar (1300 psi) for normal ground conditions.
- 110 bar (1600 psi) for soft ground conditions.

Recommended Settings (600F):

- 75 bar (1000 psi) for firm ground conditions.
- 90 bar (1300 psi) for normal ground conditions.
- 117 bar (1700 psi) for soft ground conditions.



H116143—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

SS43267,00007F9-19-16MAY17

Draper Belt Speed

Draper Belt Speed controls the speeds of the side

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draper belts. Set belt speed for prevailing crop conditions and adjust for an even distribution of crop material across the side draper belts.

Increase Belt Speed When:

- Heavy loading of side belts.
- Heavy loading of material along sides of the center belt.
- Excessive plugging of the feed drum and/or feeder house.
- Crops pulled under platform by side draper belts.
- Leaving standing uncut crop can result if too much material builds up on belts blocking the knife.

Decrease Belt Speed When:

- Crops feeding under opposing side draper belt.
- Slow belts to reduce shatter loss for long green straw/ stems.



H114075—UN—19DEC16

Draper Belt Speed

Procedure to Modify:

1. Select screen area under Draper Belt Speed to open Draper Belt Speed page.



H116145—UN—19DEC16

Standard

2. Use toggle button to select desired belt mode.



H116144—UN—19DEC16

Reduced Speed

NOTE: Use Reduced Speed when not harvesting with the full width of platform.

NOTE: In Reduced Speed mode, belts slow down to a factory default setting and a turtle icon flashes below the draper belt speed icon.

NOTE: Increasing belt speed overrides Reduced Speed.



H116146—UN—20DEC16

Adjustment

3. Select plus (+) to increase or minus (-) to decrease desired speed.

   Minimum: 0

   Maximum: 240 rpm

   Increment: 10 rpm

   No default



H116648—UN—19DEC16

Close

4. Select to close.

Recommended Settings:

160—220 n/min

Faster belt speeds are typically required in tougher crop conditions.



H116147—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.

- Turn dial counterclockwise to decrease value.

SS43267,00007FA-19-27JAN17

Draper Float Position

Draper Float Position controls the pressure in the cylinders for the gauge wheels and center section.

NOTE: Higher numbers make the header lighter, which increases oil pressure to gauge wheels/center section float. Lower numbers make the header heavier with less pressure in the float system.

Modify When:

For off ground cutting only:

- Increase float setting to reduce unwanted ground contact.
- Decrease float setting to reduce wavy cutting.
- Decrease float setting if the head is slow to react to changing ground conditions.

Downed crop:

- Increase float setting if the header begins to push material in front of the cutterbar as can sometimes be seen in soft ground conditions.
- Decrease float setting if the header begins to leave uncut crop behind the cutterbar as can sometimes be seen in firm ground conditions.



H116130—UN—19DEC16

Draper Float Position

Procedure to Modify:

1. Select screen area under Draper Float Position to open Draper Float Position page.



H116148—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired position.

   Minimum: 1

   Maximum: 10

   Default 5

   Increment: 1



H116648—UN—19DEC16

Close

3. Select to close.



H116149—UN—19DEC16

Input Field

Alternative Procedure to Modify:

1. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Navigation Bar or Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

SS43267,0000811-19-27JAN17

Cutterbar Tilt

Cutterbar Tilt adjusts angle of the cutterbar in relation to the rest of the platform to optimize harvesting capabilities.

Modify To:

Tilt the cutterbar forward:

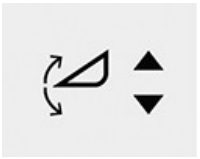
- Assist in picking up downed crop.
- Harvest closer to the ground.

Tilt the cutterbar rearward:

- Level out the head while cutting on the ground. This

helps prevent picking up rocks, dirt, and foreign objects.

- Prevent cut crop buildup falling from the cutterbar or loss of grain heads at cutterbar.



H114077—UN—19DEC16

Cutterbar Tilt

Procedure to Modify:

1. Select screen area under Cutterbar Tilt to open Cutterbar Tilt page.



H116155—UN—20DEC16

Adjustment

2. Select to tilt the cutterbar up or down.



H116648—UN—19DEC16

Close

3. Select to close.

SS43267,00007FB-19-27JAN17

Deck Plate Spacing

Deck Plate Spacing adjusts deck plate opening in order to match changes in crop conditions.

Modify When:

- Switching fields, or conditions vary in the same field.

Decrease Deck Plate Spacing When:

- Ear shelling at deck plates.
- Header loss has been identified as grain shelling at the base of the ear.
- Grain damage is recognized in the corn head. Reduce deck plate spacing to provide a cushion for the ears.
- To optimize feeding for narrow stalks.

Increase Deck Plate Spacing When:

- Excessive trash intake from the corn head is causing shelled corn to come out of the rear of the combine.
- The corn head is pulling up corn stalks and ears. Gradually open deck plates until stalks feed through rolls more freely.
- The corn appears to be pushing stalks over.
- To optimize feeding for large diameter stalks.



H116349—UN—19DEC16

Deck Plate Spacing Switch

Procedure to Modify:

- Press left side of switch to increase spacing.
- Press right side of switch to decrease spacing.



H116362—UN—19DEC16

Deck Plate Spacing

NOTE: Pressing left or right side of switch on multi-function lever activates the Deck Plate Spacing icon on corner post display.

Minimum: 0

Maximum: 9

Increment: 1

SS43267,00007FC-19-27JAN17

Backshaft Speed

Adjusting Backshaft Speed allows you to optimize the feed rate of the header to the travel speed and volume of material the machine is harvesting.

Modify When:

Increase Backshaft Speed When:

- Flagging of stalk.
- Pulling stalk out of the ground.
- Higher backshaft speeds are recommended for faster harvesting speeds and taking in large volumes of material to reduce loading on drive components.

Decrease Backshaft Speed When:

- Snapping off stalk and ingesting into separator.
- Butt shelling because ear hits deck plate too fast.
- Reducing the Backshaft Speed can reduce ears bouncing and the generation of free grain in the header when harvesting lower volumes of material.



H116349—UN—19DEC16

Backshaft Speed Switch

Procedure to Modify:

- Press top of the switch to increase gear selection or backshaft speed.
- Press bottom of the switch to decrease gear selection or backshaft speed.



H118498—UN—19DEC16

Numeric Display

NOTE: Pressing left or right side of switch on multi-function lever activates Numeric Display on corner post display.

NOTE: Only for CommandTouch™ Multi-Speed Feeder House Drive.

Feeder House Lower Shaft Speeds	
Fixed Speed (if equipped)	490 rpm
Heavy Duty Variable Speed (if equipped)	490-750 rpm
High Torque Variable Speed (if equipped)	490-750 rpm
Multi-Speed (if equipped)	**1st Gear:** 490 rpm, **2nd Gear:** 550 rpm, **3rd Gear:** 600 rpm, **4th Gear:** 670 rpm, 5th Gear: 750 rpm

SS43267,00007FD-19-27JAN17

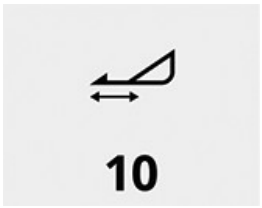
Cutterbar Position

Cutterbar Position adjust allows you to control the position of the cutterbar.

NOTE: Only works on European 600X Header Platforms.

Modify To:

- Extend cutterbar to reduce pre-harvest losses in tall standing crops.
- Retract cutterbar to improve feeding in short standing crops.



H114081—UN—19DEC16

Cutterbar Position

Procedure to Modify:

1. Select screen area under Cutterbar Position to open Cutterbar Position page.



H116150—UN—20DEC16

Adjustment

2. Select plus (+) to increase or minus (-) to decrease desired position.



H116648—UN—19DEC16

Close

3. Select to close.

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H116151—UN—19DEC16

Wizard

Alternative Procedure to Modify:

NOTE: The combine allows you to enter plant height and desired stubble height in the armrest display. This data, together with the entered amount of crop harvested, allows the combine to make a pre-set of the cutting table for optimized operation.

NOTE: Wizard can be accessed through this overlay or launched from Information and Settings.

1. Select to Start Wizard.



H116152—UN—19DEC16

Number Pad

2. Select to open number pad and enter desired plant height.



H116152—UN—19DEC16

Number Pad

3. Select to open number pad and enter desired stubble height.



H116154—UN—19DEC16

Save

- Select to close the overlay and update position setting.



H116153—UN—19DEC16

Cancel

- Select to exit the wizard without updating position setting.

SS43267,00007FE-19-27JAN17

Advanced Settings

Advanced Settings allows you to access further adjustments and less common settings.

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Items Accessible on Advanced Settings Page:



H116165—UN—19DEC16

ON/OFF

Limp Home Mode— use the toggle to enable and disable.



H116165—UN—19DEC16

ON/OFF

Cutterbar Position Wizard— use the toggle to enable and disable.

SS43267,00007FF-19-27JAN17

Limp Home Mode

Allows you to continue to fold, actuate, drive, or transport machine when a system fault is recognized.

Available Limp Home Modes:

- Fore/Aft Tilt
- Reel and Cutterbar
- Folding Corn Head

Modify When:

Select Limp Home mode check box if machine faults occur and machine components still need to function in order for:

- Harvesting to continue.
- Transporting on roadways. Loading on to a trailer.
- Placing the machine into a building.



N118004—UN—22OCT15

Advanced

Procedure to Modify:

NOTE: Limp Home Mode only appears if a sensor fails or fault code exists.

1. Select Advanced Settings to access further adjustments and less common settings.



H116165—UN—19DEC16

ON/OFF

2. Select to turn Limp Home Mode ON/OFF.

CAUTION: You accept the risk of collisions of machine components when turning Limp Home Mode ON.



H116648—UN—19DEC16

Close

3. Select to close.

SS43267,0000800-19-27JAN17

Cutterbar Position Wizard

Allows operator to adjust cutterbar position for various plant heights and stubble heights.

Modify When:

- Calibrating platform.
- Crop conditions vary across the field.
- Changing Crop types.



H116151—UN—19DEC16

Wizard

Procedure to Modify:

1. Select to Start Wizard.



H116152—UN—19DEC16

Number Pad

2. Select to open number pad and enter desired plant height.



H116152—UN—19DEC16

Number Pad

3. Select to open number pad and enter desired stubble height.

Entering plant and stubble height configures a recommended cutterbar position.



H116154—UN—19DEC16

Save

- Select to close the overlay and update position setting.



H116153—UN—19DEC16

Cancel

- Select to exit the wizard without updating position setting.

SS43267,0000801-19-27JAN17

Access HarvestSmart™



H113668—UN—22OCT15

Menu

Access Application Through Display:

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



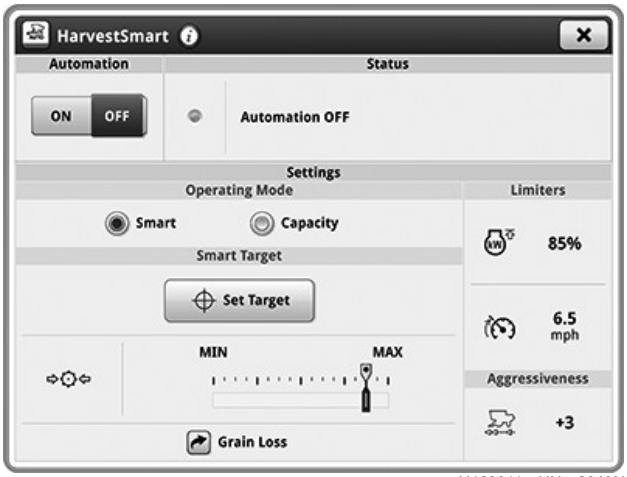
H113715—UN—20JAN17

HarvestSmart™

3. HarvestSmart™

SS43267,0000990-19-03APR17

HarvestSmart™ Main Page



H120311—UN—20JAN17

HarvestSmart™

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

HarvestSmart™ varies ground speed to maintain a constant flow of material through the machine based on several harvesting factors which maximizes productivity and reduces operator fatigue.

System may not perform optimally if used in the following conditions:

- Extreme Hill Conditions
- Tangled or Lodged Crop Conditions
- Extremely Muddy Conditions



H113590—UN—20JAN17

ON/OFF

Items Accessible on HarvestSmart™ Main Page:

Automation— allows you to enable or disable HarvestSmart™.

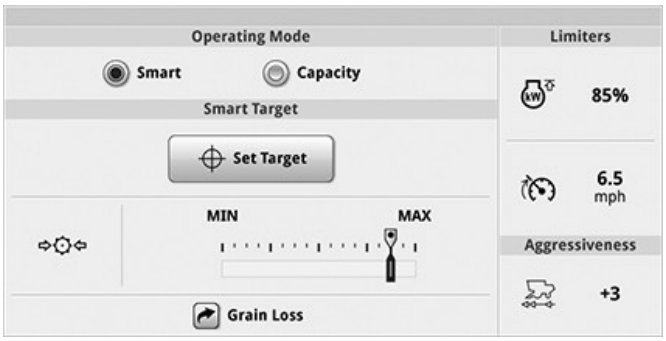


H120559—UN—20JAN17

Status

Status— displays current system status and allows you to view requirements that must be met for the system to operate properly.

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H118556—UN—20JAN17

Settings

Settings— allows you to select operating modes based on your desired performance factors.



H116083—UN—31JAN17

HarvestSmart™

Run Page Modules

Modules for this application can be added to run pages using Layout Manager.

Example:

HarvestSmart™— allows you quick access to turn HarvestSmart™ ON/OFF.

NOTE: Different modules can be available for your application.



H119888—UN—20JAN17

HarvestSmart™

Shortcut Keys

Shortcut keys for this application can be added to the shortcut bar using Layout Manager.

Example:

HarvestSmart™ Shortcut Key— allows you quick access to turn HarvestSmart™ ON/OFF.

NOTE: Different shortcut keys can be available for your application.

SS43267,0000988-19-03APR17

Automation

Automation allows you to enable or disable the HarvestSmart™ system.



H113590—UN—20JAN17

ON/OFF

Procedure to Modify:

1. Select to enable/disable the system.



H118557—UN—20JAN17

Activation Button

2. To activate HarvestSmart™, press the 3 or 2 button on the multi-function lever.
3. Press button 1 to change HarvestSmart™ from an active state to a ready state.

SS43267,0000991-19-03APR17

Status



H120559—UN—20JAN17

Status is used to communicate the current state of the HarvestSmart™ system. Status also allows you to view requirements that must be met for the system to operate properly.

Select screen area under Status to open HarvestSmart™ Status.

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H114655—UN—05JAN17

Gray

Status Indicators:

Automation OFF



H114658—UN—05JAN17

Amber

Not Ready— machine must be ready to harvest.

NOTE: "Not Ready" state has many conditions that can be shown. Clicking on the status lists everything that inhibits HarvestSmart™ from operating.



H114656—UN—05JAN17

Green

Ready— press the 3 or 2 button on the multi-function lever to resume HarvestSmart™.



H114656—UN—05JAN17

Green

Preparing Target— must be in consistent harvesting conditions.



H114656—UN—05JAN17

Green

Acquiring New Performance Target— maintain consistent harvest conditions.



H114659—UN—05JAN17

Blue

Active— automating ground speed.



H114656—UN—05JAN17

Green

Maintaining Ground Speed— move multi-function lever to regain control.



H114658—UN—05JAN17

Amber

State | Max Speed Limited— maximum ground speed limit reached.

NOTE: This state overrides the Preparing, Acquiring, Active, and Maintaining states. These reduced state names appear where "State" is listed when max speed is limited.



H114658—UN—05JAN17

Amber

State | Engine Power Limited— maximum engine power limit reached.

NOTE: This state overrides the Preparing, Acquiring, Active, and Maintaining states. These reduced state names appear where "State" is listed when engine power is limited.



H114658—UN—05JAN17

Amber

Active | Reduced Functionality— separator sensor error present.



H114658—UN—05JAN17

Amber

Active | Reduced Functionality— (right/left) shoe loss sensor error present.



H114657—UN—05JAN17

Red

Error Detected— separator drive pressure sensor error present.



H114655—UN—05JAN17

Gray

Automation OFF | Error Detected— separator drive pressure sensor error present.

HarvestSmart™ Requirements:

- HarvestSmart™ automation must be ON.
- Performance Target must be set.
- Machine must be ready to harvest:

  Separator must be engaged.

  Header must be engaged.

  Engine must be set to high idle.

  Road Mode must not be enabled.
- Press the 3 or 2 button on the multi-function lever to resume HarvestSmart™.



H116085—UN—25JAN17

Message

A message appears when a requirement is not met.



H118560—UN—20JAN17

Green Checkmark

Once a condition has been met, a green checkmark appears.



H118559—UN—20JAN17

Close

Select to close.

SS43267,0000992-19-16MAY17

Settings

Settings allow you to select desired operating modes to monitor loss levels and to maintain a constant material flow.



H114683—UN—20JAN17

Smart

Items Accessible Under Settings:

Operating Mode Items:

Use Smart Mode When:

You want the machine to reduce grain loss and automatically adjust target pressure and ground speed based on VisionTrak™ results.

Use Capacity Mode When:

You want to manually adjust the target pressure to maximize throughput and control ground speed regardless of the VisionTrak™ results.

Smart Mode— automatically adjusts separator pressure target to stay within your defined loss level.



H118575—UN—20JAN17

Capacity

Capacity Mode— automatically adjusts ground speed to maintain a constant load on the threshing system.

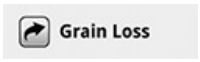


H118561—UN—20JAN17

Set Target

Smart Target Items:

Set Target— allows you to set VisionTrak™ and HarvestSmart™ targets at the same time.



H118562—UN—20JAN17

Grain Loss

Grain Loss— allows you to open the Harvest Settings application to adjust threshing performance for minimum harvest loss (only available in Smart Mode).



H118561—UN—20JAN17

Set Target

Target Pressure Items:

Set Target— allows you to automatically adjust target

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volume without changing the Grain Loss monitor settings.



H118563—UN—20JAN17

Target Pressure

Target Pressure Manual Adjustment— allows you to manually adjust target volume without changing the Grain Loss monitor settings (only available in Capacity Mode).

Limiter Items:

Limiters— allow you to set ground speed or engine power limits within the HarvestSmart™ system.

Aggressiveness Items:

Aggressiveness— allows you to adjust how quickly the system responds to changes in VisionTrak™ loss or threshing system load.

SS43267,000098A-19-16MAY17

Settings | Operating Mode | Smart Mode

Smart Mode monitors threshing load pressure and loss levels to maintain desired performance levels by automatically adjusting ground speed.

Use Smart Mode When:

You want to have the machine automatically make adjustments to the target based on VisionTrak™ results.

- If VisionTrak™ indicates total grain loss is below the green area on the corner post display the machine increases speed.
- If VisionTrak™ indicates total grain loss is above the green area on the corner post display the machine decreases speed.



H118561—UN—20JAN17

Set Target

Items Accessible Under Smart Mode Settings:

Smart Target— allows you to set VisionTrak™ and HarvestSmart™ targets at the same time.



H118562—UN—20JAN17

Grain Loss

Grain Loss— allows you to open the Harvest Settings application to adjust grain loss target for minimum harvest loss.

SS43267,000098B-19-16MAY17

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HarvestSmart is a trademark of Deere & Company

Settings | Operating Mode | Smart Mode | Smart Target

Smart Target allows you to set VisionTrak™ loss and HarvestSmart™ targets at the same time.

NOTE: While in Smart Mode, target pressure controls are unavailable. You are able to set the target by tapping the Set Target button.

Procedure to Modify:

NOTE: HarvestSmart™ maintains your speed when exiting the field and unloading on the go, until you move the multi-function lever to gain control of the machine. When you have control of machine speed, continue to monitor power and adjust speed as needed so the engine does not stall.

NOTE: Set Target procedure should be completed in each new field.

1. Move the multi-function lever to gain control of the machine.
2. Operate machine at preferred harvest speed and grain loss level.



H118561—UN—20JAN17

Set Target

3. Select to Set Target if current grain loss is acceptable.



H118557—UN—20JAN17

Activation Buttons

4. To activate HarvestSmart™, press the 3 or 2 button on the multi-function lever.

NOTE: Machine makes speed adjustments automatically during target acquisition.



H118559—UN—20JAN17

Close

5. Select to close.

SS43267,0000986-19-16MAY17

Settings | Operating Mode | Capacity Mode

Capacity Mode helps maintain a constant material flow by automatically adjusting ground speed in changing conditions.

NOTE: Capacity Mode does not adjust the VisionTrak™ monitor. Use Capacity Mode in difficult conditions when VisionTrak™ readings are not accurate.

NOTE: Use this mode if you do not want the threshing load target to update automatically.

Use Capacity Mode When:

You want to manually update the Target Pressure to control material throughput and ground speed.

Items Accessible Under Capacity Mode Settings:



H118561—UN—20JAN17

Set Target

Target Pressure— allows you to automatically adjust target volume without changing the Grain Loss monitor settings.

SS43267,000098C-19-16MAY17

Settings | Operating Mode | Capacity Mode | Target Pressure

Target Pressure allows the machine to maintain a consistent load on the separator.

- Adjusting the Target Pressure higher causes the machine to increase speed.
- Adjusting the Target Pressure lower causes the machine to decrease speed.

NOTE: Target Pressure cannot be adjusted through the HarvestSmart™ setup screen while in Smart Mode.

Procedure to Modify Automatically:

NOTE: HarvestSmart™ maintains your speed when exiting the field and unloading on the go, until you move the multi-function lever to gain control of the machine.

NOTE: Set Target procedure should be completed in each new field.

1. Move the multi-function lever to gain control of the machine.
2. Operate machine at preferred harvest speed and grain loss level.



H118561—UN—20JAN17

Set Target

3. Select to Set Target if current grain loss is acceptable.



H118557—UN—20JAN17

Activation Buttons

4. To activate HarvestSmart™, press the 3 or 2 button on the multi-function lever.

NOTE: Machine makes speed adjustments automatically during target acquisition.



H118559—UN—20JAN17

Close

5. Select to close.



H118563—UN—20JAN17

Target Pressure

Procedure to Modify Manually:

1. Select plus (+) to increase or minus (-) to decrease desired pressure.

NOTE: When you adjust Target Pressure, the setting starts at current pressure and can be adjusted up or down from there.

Minimum— 0%

Maximum— 100%

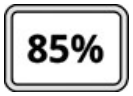
Increments— 0.5%



H118559—UN—20JAN17

Close

2. Select to close.



H118564—UN—20JAN17

Target Pressure

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HarvestSmart is a trademark of Deere & Company

Alternative Procedure to Modify Manually:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— 0%

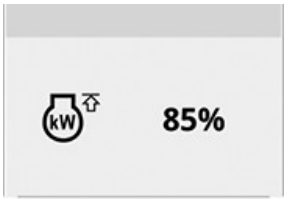
   Maximum— 100%

   Increments— 0.5%

SS43267,0000987-19-16MAY17

Settings | Limiters

Limiters allow you to set Maximum Engine Power or Maximum Ground Speed levels.

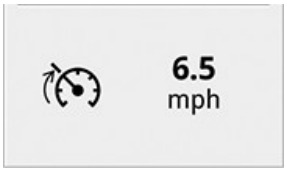


H114681—UN—20JAN17

Maximum Engine Power

Items Accessible Under Limiters:

Maximum Engine Power— sets the maximum allowable engine load that HarvestSmart™ is allowed to operate.



H118568—UN—20JAN17

Maximum Ground Speed

Maximum Ground Speed— sets the maximum allowable ground speed for HarvestSmart™ to operate.

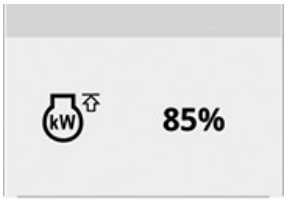
SS43267,0000993-19-03APR17

Settings | Limiters | Maximum Engine Power

Maximum Engine Power sets the maximum allowable engine load that HarvestSmart™ is allowed to operate.

Modify When:

- If harvesting in conditions such as dry, level terrain, even feeding, and standing crop, operating at a higher Maximum Engine Power can promote more capacity and efficiency.
- If harvesting in conditions such as mud, steep terrain, slug feeding, and lodged crop, operating at a lower Maximum Engine Power allows for more consistent performance and reduced risk of engine stalling.



H114681—UN—20JAN17

Maximum Engine Power

Procedure to Modify:

1. Select to adjust Maximum Engine Power.



H118569—UN—31JAN17

Maximum Engine Power

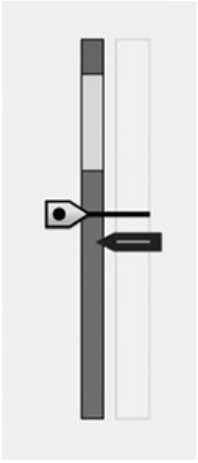
2. Select plus (+) to increase or minus (-) to decrease maximum engine power.

   Minimum— 80%

   Maximum— 106%

   Increments— 1%

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H118583—UN—31JAN17

Engine Power Meter

Maximum Engine Power Meter— shows engine power usage and maximum engine power setting. The system will not allow target to be set in the red, it can be operated in the yellow.

NOTE: If harvesting in mud, steep hills, or adverse conditions, target the top portion of the green to allow for additional power consumption and more consistent system performance.



H118584—UN—20JAN17

Setting Indicator

Indicator shows maximum engine power setting.



H118585—UN—20JAN17

Usage Indicator

Indicator shows current engine power usage.



H118559—UN—20JAN17

Close

3. Select to close.



H118572—UN—20JAN17

Maximum Engine Power

Alternative Procedure to Modify:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired engine power.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— 80%

   Maximum— 106%

   Increments— 1%

SS43267,000098D-19-03APR17

Settings | Limiters | Maximum Ground Speed

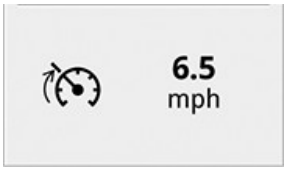
Maximum Ground Speed sets the maximum allowable ground speed for HarvestSmart™ to operate.

NOTE: Multi-function lever position always limits maximum ground speed.

Modify When:

- You do not want your combine running over a specific speed because the terrain is rough or feeding conditions exist that could plug the header. Set it to the speed at which you want to operate.

EX: Your head becomes limited at 8 km/h (5 mph). Set ground speed to 7.5 km/h (4.7 mph)



H118568—UN—20JAN17

Maximum Ground Speed

Procedure to Modify:

1. Select to adjust Maximum Ground Speed.

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H118570—UN—31JAN17

Maximum Ground Speed

2. Select plus (+) to increase or minus (-) to select desired ground speed.

   Minimum— 2.0 km/h (1.2 mph)

   Maximum— 14.0 km/h (8.7 mph)

   Increments— 0.1 km/h (0.1 mph)



H118559—UN—20JAN17

Close

3. Select to close.



H118573—UN—20JAN17

Maximum Ground Speed

Alternative Procedure to Modify:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired ground speed.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— 2.0 km/h (1.2 mph)

   Maximum— 14.0 km/h (8.7 mph)

   Increments— 0.1 km/h (0.1 mph)

CS12167,0000B6E-19-07JUN18

Settings | Response Aggressiveness

Response Aggressiveness controls how quickly the HarvestSmart™ system responds to crop density changes.

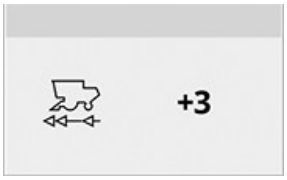
Modify When:

Increase When:

You want the machine to react faster to changes in harvesting conditions.

Decrease When:

You want the machine to react slower to changes in harvesting conditions.



H114682—UN—20JAN17

Aggressiveness

Procedure to Modify:

1. Select to access Response Aggressiveness.



H118571—UN—31JAN17

Aggressiveness

2. Select plus (+) to increase or minus (-) to decrease desired aggressiveness.

   Minimum— -10

   Maximum— +10

   Increments— 1.0



H118559—UN—20JAN17

Close

3. Select to close.

HarvestSmart is a trademark of Deere & Company



H118574—UN—20JAN17

Aggressiveness

Alternative Procedure to Modify:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired aggressiveness.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— -10

   Maximum— +10

   Increments— 1.0

SS43267,000098F-19-03APR17

Integrated Combine Adjustment 2

Access Integrated Combine Adjustment 2



H113668—UN—22OCT15

Menu

Access Application Through Display:

1. Menu



H119891—UN—30JAN17

Applications

2. Applications tab



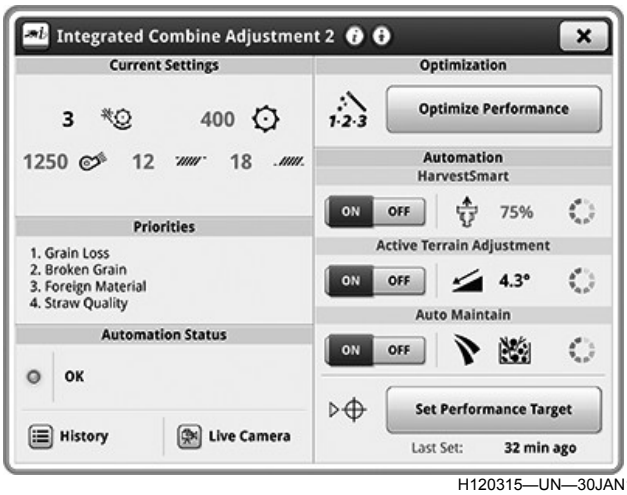
H113729—UN—30JAN17

Integrated Combine Adjustment 2

3. Integrated Combine Adjustment 2

SS43267,00008E6-19-19MAY17

Integrated Combine Adjustment 2 Main Page



H120315—UN—30JAN17

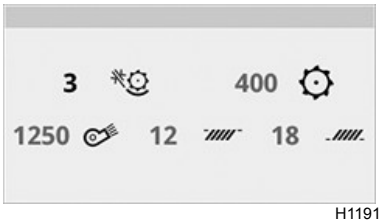
Integrated Combine Adjustment 2

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Integrated Combine Adjustment 2 (ICA2) application actively maintains a performance target.

- Use Harvest Settings for the initial machine settings for the selected crop.
- Use Optimize Performance to optimize machine settings.
- Use ICA2 to maintain and monitor machine performance using live view cameras located on the clean grain elevator and tailings elevator.



H119182—UN—30JAN17

Current Settings

Items Accessible on Integrated Combine Adjustment 2 Main Page:

Current Settings— select Current Settings screen area to access Harvest Settings Application.



H119183—UN—30JAN17

Priorities

Priorities— allows you to arrange the priority list in the order of their importance with the highest priority at the top.



H119779—UN—30JAN17

Automation Status

Automation Status— allows you to view ICA2 Diagnostics.



H113739—UN—30JAN17

History

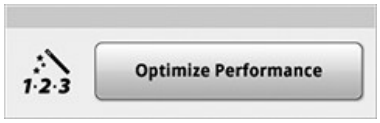
History— allows you to view history of current and previous ICA2 adjustments.



H113740—UN—30JAN17

Live Camera

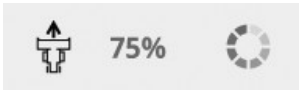
Live Camera— allows you to view the clean grain and tailings elevator camera feeds.



H119185—UN—30JAN17

Optimization

Optimize Performance— takes to you to the Interactive Combine Adjustment application.



H119775—UN—30JAN17

HarvestSmart™

HarvestSmart™

HarvestSmart™— varies ground speed to maintain a constant flow of material through the machine. Select screen area to access HarvestSmart™ settings.



H116937—UN—30JAN17

ON/OFF

Automation— allows you to enable or disable HarvestSmart™.



H119773—UN—30JAN17

Active Terrain Adjustment™

Active Terrain Adjustment™

Active Terrain Adjustment™ (ATA)— allows cleaning fan, chaffer, and sieve to adjust automatically depending on the crop type and machine pitch when harvesting in uphill or downhill terrain. Select screen area to access ATA settings.



H116937—UN—30JAN17

ON/OFF

Automation— allows you to enable or disable Active Terrain Adjustment™.



H119774—UN—30JAN17

Auto Maintain

Auto Maintain

Auto Maintain— allows you to set the Response Aggressiveness and sensitivity levels for Grain Loss, Broken Grain, and Foreign Material. Select screen area to access Auto Maintain settings.



H116937—UN—30JAN17

ON/OFF

Automation— allows you to enable or disable Auto Maintain.



H119195—UN—30JAN17

Set Performance Target

Set Performance Target— allows you to set a new performance target at existing loss, grain quality, and feedrate levels.

NOTE: When an optimization (ICA) process is in session, Auto Maintain Set Performance Target is unavailable, and Return to Optimize becomes available.

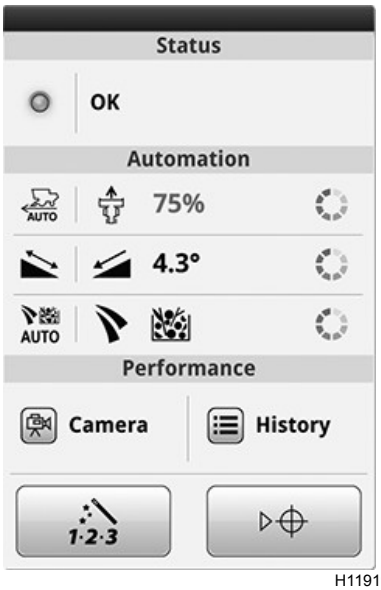


H119887—UN—30JAN17

Return to Optimize

Return to Optimize— allows you to return to the Interactive Combine Adjustment.

HarvestSmart is a trademark of Deere & Company
Active Terrain Adjustment is a trademark of Deere & Company



H119190—UN—30JAN17

ICA2 Summary

Run Page Modules:

Modules for this application can be added to run pages using Layout Manager.

ICA2 Summary— shows Automation Status, each systems state, and links to Camera, History, Optimize Performance, and Set Performance Target.

NOTE: Different modules can be available for your application.



H113748—UN—30JAN17

Shortcut Key

Shortcut Keys:

Shortcut keys for this application can be added to shortcut bar using Layout Manager.

ICA2 Shortcut Key— quick access to open the ICA2 application.

NOTE: Different shortcut keys can be available for your application.

SS43267,0000942-19-19MAY17

History | Adjustments

History | Adjustments

Shows adjustments Integrated Combine Adjustment 2 (ICA2) has made in the last 12 hours. The list includes the setting that was adjusted, reason adjustment was made, how long the adjustment has been applied or how long ago it was completed.

Items Accessible on History | Adjustments Page:

NOTE: While an adjustment is currently applied, it shows in blue, has the "In Progress" status, and shows how long it has been applied.

NOTE: When an adjustment is completed, the Timestamp area shows how long ago the adjustment was made.



H116672—UN—30JAN17

Scroll Arrows

Procedure to Modify:

1. Use Scroll Arrows to move up and down list.

NOTE: The most recent adjustment is listed at the top.

2. Select an adjustment in the History List to view Adjustment Details on that particular adjustment.



H116936—UN—30JAN17

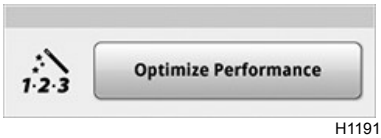
Close

3. Select to close.

SS43267,0000943-19-26JAN17

Optimize Performance

Optimize Performance launches Interactive Combine Adjustment.

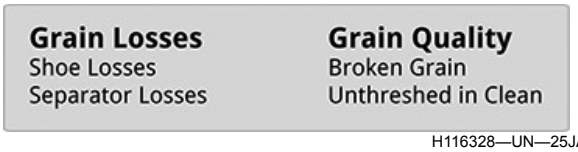


H119185—UN—30JAN17

Optimize Performance

Procedure to Access:

Select to access.



H116328—UN—25JAN17

ICA2 Detected Issues

NOTE: NOTE: Selecting Optimize Performance while there are active issues in Auto Maintain, pre-selects them as issues in Interactive Combine Adjustment and launches ICA2 Detected Issues screen.

SS43267,0000944-19-26JAN17

Adjustment Details

Adjustment Details allows you to view which adjustments have been made, the reasons the adjustments were made, how long the adjustment has been applied, and when the adjustment was completed.

Items Accessible on the Adjustment Details Page:



H119862—UN—30JAN17

Active Terrain Adjustment™



H119863—UN—30JAN17

Auto Maintain

Adjustment in Progress— indicates Auto Maintain is monitoring the impact of the adjustments.



H119864—UN—30JAN17

Active Terrain Adjustment™



H119767—UN—30JAN17

Auto Maintain

Maximum Offset— displays amount of change made to chaffer, sieve, cleaning fan, threshing speed, or threshing clearance.



H113747—UN—30JAN17

Auto Maintain Reason



H119861—UN—30JAN17

Active Terrain Adjustment™ Reason

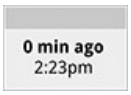
Reason— indicates the current pitch Active Terrain Adjustment™ (ATA) is adjusting for or issues Auto Maintain has detected.



H119861—UN—30JAN17

Maximum Slope

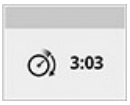
Maximum Slope— displays the incline/decline that caused the displayed adjustments (only available for Active Terrain Adjustment™).



H119865—UN—30JAN17

Timestamp

Timestamp— displays the amount of time the offsets are applied.



H119866—UN—30JAN17

Duration

Duration— displays amount of time it took to make offset adjustment.



H113740—UN—30JAN17

Live Camera

Live Camera— view clean grain elevator and tailings elevator camera feeds.

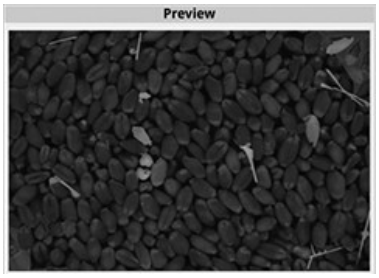
SS43267,0000945-19-17MAY17

Grain System Video

Allows you to view the Clean Grain elevator and the Tailings elevator camera feeds through the Live Camera screen.

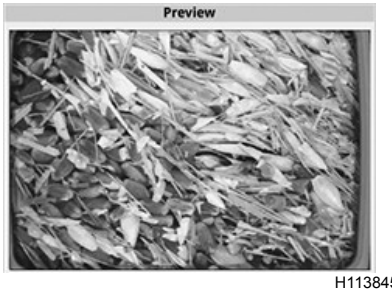
Items Accessible on the Grain System Video Page:

Active Terrain Adjustment is a trademark of Deere & Company



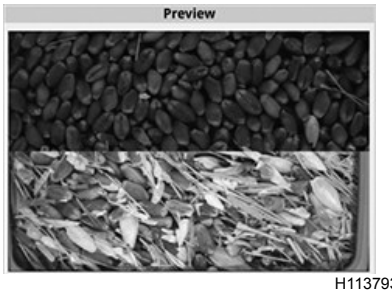
H113775—UN—30JAN17

Grain Camera (Analysis View)



H113845—UN—31JAN17

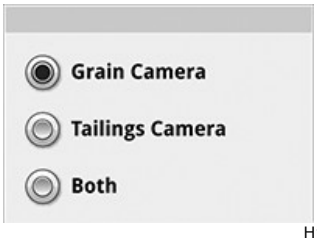
Tailings Camera



H113793—UN—30JAN17

Both

Live Camera— Grain Camera, Tailings Camera, and Both.



H113773—UN—30JAN17

Source

Source— allows you to choose Grain Camera, Tailings Camera, or Both.



H113730—UN—30JAN17

ON/OFF

View Grain Analysis— ON/OFF toggle enables the grain analysis color overlays (only available for Grain Camera).

NOTE: When operating with an unsupported crop type, the View Grain Analysis is locked in the OFF position.

NOTE: NOTE: Turning on the grain analysis overlays slow down the live video feed.

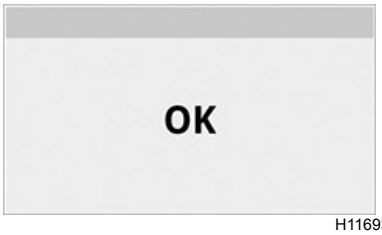


H119768—UN—31JAN17

Grain Analysis

Grain Analysis— displays a color legend for grain quality and foreign material.

NOTE: Grain Analysis is only available in the Grain Camera view.



H116938—UN—30JAN17

Lens Debris

Lens Debris— indicates how dirty the camera lenses are.

SS43267,0000946-19-30JAN17

Edit Harvest Priorities

Harvest Priorities allows you to arrange the harvest priorities list in order of importance, with the highest priority at the top.

NOTE: NOTE: Harvest Priorities are used to determine what areas are most important to you when multiple issues exist.

Modify When:

Changing to a new crop type and the default priorities do not match your own.

Procedure to Modify:



H116364—UN—30JAN17

Harvest Priorities

1. Select area under Harvest Priorities to open.



H116313—UN—25JAN17

Harvest Priorities

2. Select highest priority item to place at the top of the list.



H116315—UN—25JAN17

Up Arrow

- Select to raise the selected item.



H116314—UN—25JAN17

Down Arrow

- Select to lower the selected item.

3. Select remaining individual items and place in desired priority.



H116312—UN—30JAN17

Cancel

Select to cancel Edit Harvest Priorities.



H116311—UN—25JAN17

OK

Select to close after placing in highest priority.

SS43267,0000947-19-17MAY17

History | Performance

Performance Monitor is used to show the performance target and current performance displayed on a timeline. To view Performance Monitor, select History and choose Performance tab at top.

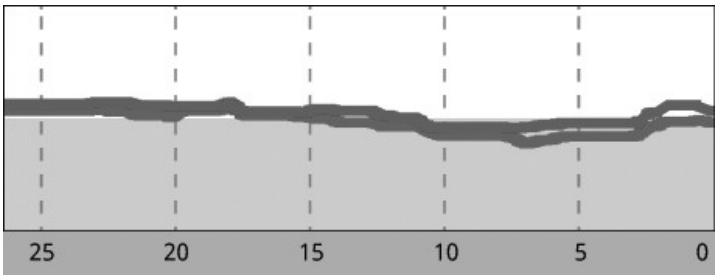
Items Accessible on Performance Monitor Page:



H113781—UN—30JAN17

Performance/Adjustments

Performance/Adjustments— use Performance/ Adjustments toggle to switch between Performance Monitor and Adjustment History.

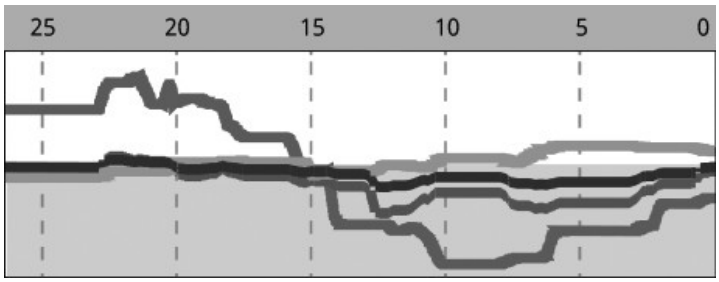


H119765—UN—30JAN17

Loss Performance

Loss Performance— chart view of the Separator, Shoe, and Tailings.

NOTE: Green area of chart represents the performance target.

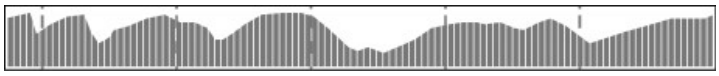


H119766—UN—30JAN17

Quality Performance

Quality Performance— chart view of the Broken Grain, Foreign Material Light, Foreign Material Heavy, and Unthreshed.

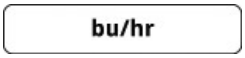
NOTE: Green area of chart represents the performance target.



H119764—UN—30JAN17

Field/Machine Performance Graph

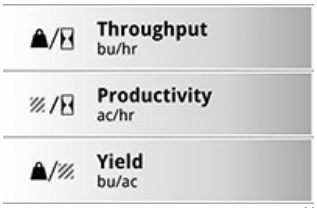
Field/Machine Performance Graph— displays Throughput, Productivity, or Yield.



H119776—UN—25JAN17

Units

Performance Options- select to change units being measured.



H113756—UN—25JAN17

Performance Options

NOTE: Throughput is selected by default.

Select between Throughput, Productivity, and Yield graphs.

SS43267,0000948-19-30JAN17

Lens Debris

Lens Debris shows the Impact to Auto Maintain due to dirt or smudges on the camera lens.

NOTE: Dirty lenses may impact the performance of Auto Maintain.

Lens Debris States:

The ICA2 System has three levels of camera lens debris that allow you to monitor the status of camera.



H113776—UN—30JAN17

OK

OK— indicates that there is little to no debris on the lens.



H113777—UN—30JAN17

Moderate

Moderate— indicates that there is some debris on the lens and Auto Maintain may start to be affected.

NOTE: A message appears on-screen that states grain camera cleaning is recommended.



H113778—UN—30JAN17

SEVERE

Severe— indicates that there is a significant amount of debris on the lens and Auto Maintain is disabled.

NOTE: A message appears on-screen that states grain camera cleaning is required.

NOTE: Cleaning frequency varies depending on a number of factors, including operating conditions, weather, and crop conditions.

SS43267,0000949-19-30JAN17

ICA2 Cannot Maintain Performance Target

ICA2 Cannot Maintain Performance Target states that

Integrated Combine Adjustment 2 (ICA2) is not able to set the Performance Target in the current conditions.

Items Accessible on the ICA2 Cannot Maintain Performance Target Page:



H119869—UN—30JAN17

Continue Using Auto Maintain

Continue Using Auto Maintain— gives you the option to either set a new Performance Target with current conditions or to retry using the current Performance Target.



H119870—UN—30JAN17

Check Manual Adjustments

Check Manual Adjustments— starts Interactive Combine Adjustment (ICA) application and recommends changing any settings ICA2 is not able to adjust.



H119868—UN—30JAN17

Turn Off Auto Maintain

Turn Off Auto Maintain— ICA2 Auto Maintain turns OFF.



H113840—UN—30JAN17

Next

Select to proceed.



H119869—UN—30JAN17

Continue Using Auto Maintain

Procedure to Modify:

Continue Using Auto Maintain

1. Select to continue using ICA2 Auto Maintain.



H113840—UN—30JAN17

Next

2. Select to proceed and choose an option to edit ICA2 settings.



H119883—UN—30JAN17

Set New Target

3. Select Set New Target to set the target to current performance and maintain.



H113732—UN—30JAN17

OK

4. Select to acquire new performance target.



H119870—UN—30JAN17

Check Manual Adjustments

Check Manual Adjustments

1. Select to check for manual updates.



H113840—UN—30JAN17

Next

2. Select to open ICA2 Detected Issues.



H119868—UN—30JAN17

Turn Off Auto Maintain

Turn Off Auto Maintain

1. Select to turn off ICA2 Auto Maintain.



H113840—UN—30JAN17

Next

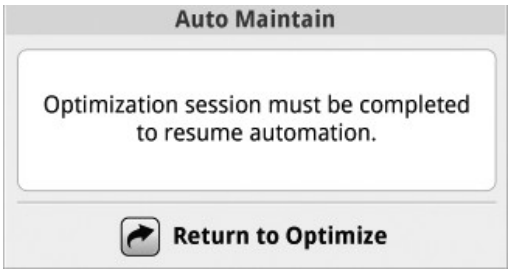
2. Select to proceed.

SS43267,000094A-19-31JAN17

Return to Optimize

Return to Optimize launches the Interactive Combine Adjustment (ICA) application over the top of Integrated Combine Adjustment 2 (ICA2) application.

Procedure to Access:



H119769—UN—30JAN17

Return to Optimize

Select to return to Interactive Combine Adjustment (ICA).

NOTE: ICA (Optimization) must be complete before automation can resume.

SS43267,000094B-19-27JAN17

Set Performance Target

Set Performance Target allows you to manually initiate and perform necessary background operations to utilize current Loss and Quality of the machine as the new "maintain" threshold.

Procedure to Modify:



H113590—UN—20JAN17

ON/OFF

1. Turn HarvestSmart™ and Auto Maintain OFF.
2. Operate machine at preferred harvest speed, grain quality, and grain loss levels.



H116937—UN—30JAN17

ON/OFF

3. Turn HarvestSmart™ and Auto Maintain ON.



H119889—UN—31JAN17

Set Performance Target

4. Select to Set Performance Target.

NOTE: Message appears asking if you want to "Set New Performance Target?" if you turn Auto Maintain ON and there is currently no valid target set.

NOTE: Any time you initiate a Performance Target, and when you select the Set Performance Target button, a message appears on the display

NOTE: Any time a Performance Target creation is successfully completed, a message appears on the display.

SS43267,000094C-19-17MAY17

History

History allows you to view the Adjustments Integrated Combine Adjustment 2 (ICA2) has made in the last 12 hours and view a graph of the machine performance for the previous 30 minutes.

Items Accessible on History Page:



H119197—UN—31JAN17

Adjustments Page

NOTE: NOTE: Adjustments Page is default page.



H116939—UN—30JAN17

Performance/Adjustments

- Select to access Performance history monitor.



H113781—UN—30JAN17

Performance/Adjustments

- Select to access Adjustments history monitor.



H116936—UN—30JAN17

Close

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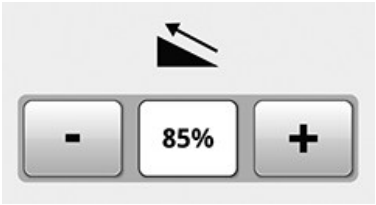
- Select to close.

SS43267,000094D-19-17MAY17

Active Terrain Adjustment™

Active Terrain Adjustment™ allows cleaning fan, chaffer, and sieve to adjust automatically depending on crop type and machine pitch when harvesting in uphill or downhill terrain.

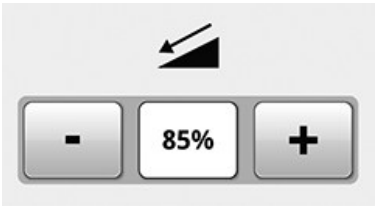
Items Accessible on Active Terrain Adjustment™:



H114667—UN—05JAN17

Uphill Sensitivity

Uphill Sensitivity— accelerates or decelerates the system's reaction to vehicle pitch while harvesting uphill to help reduce grain loss and tailings.



H114668—UN—05JAN17

Downhill Sensitivity

Downhill Sensitivity— accelerates or decelerates the system's reaction to vehicle pitch while harvesting downhill to help maintain harvested grain cleanliness.



H119750—UN—30JAN17

Cleaning Fan

Cleaning Fan— indicates the step size used by ATA to adjust the fan speed. Select to access cleaning fan offset tuning.



H119200—UN—30JAN17

Chaffer

Chaffer— indicates the step size used by ATA to adjust the chaffer. Select to access chaffer offset tuning.



H119199—UN—30JAN17

Sieve

Sieve— indicates the step size used by ATA to adjust the sieve. Select to access sieve offset tuning.

SS43267,000094E-19-17MAY17

Uphill Sensitivity

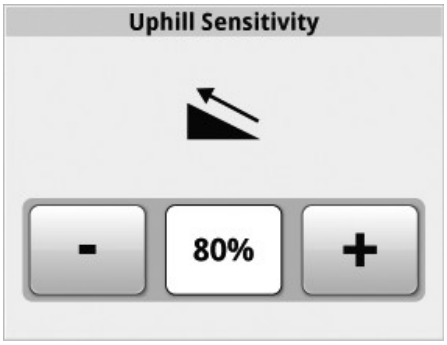
Uphill Sensitivity allows you to accelerate or decelerate system reaction to vehicle pitch to help reduce grain loss and tailings while traveling uphill.

NOTE: Higher sensitivity values react more quickly to changes in pitch.

Modify When:

- Active Terrain Adjustment™ (ATA) system is making adjustments too soon or too late, causing grain loss or tailings to be higher than on level land.
- Adjust the sensitivity lower if grain tank is not clean.
- Adjust the sensitivity higher if cleaning shoe loss or tailings levels are elevated.

Procedure to Modify:



H119777—UN—05JAN17

Uphill Sensitivity

1. Select plus (+) to increase or minus (-) to decrease desired sensitivity.

   Minimum: -100%

   Maximum: 100%

   Increment: 10%

Active Terrain Adjustment is a trademark of Deere & Company



H114674—UN—03JAN17

Close

2. Select to close.

SS43267,000094F-19-17MAY17

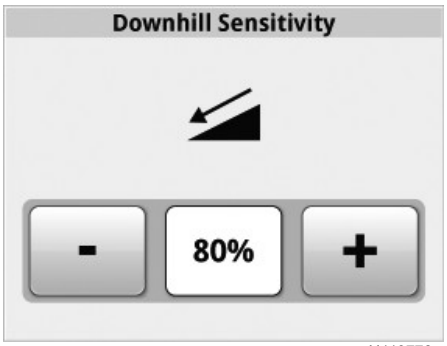
Downhill Sensitivity

Downhill Sensitivity allows you to accelerate or decelerate system reaction to vehicle pitch to help maintain grain cleanliness while harvesting downhill.

NOTE: Higher sensitivity values react more quickly to changes in pitch.

Modify When:

- Active Terrain Adjustment™ (ATA) system is making adjustments too soon or too late, causing grain loss or tailings to be higher than on level land.
- Adjust the sensitivity lower if cleaning shoe loss or tailings levels are elevated.
- Adjust the sensitivity higher if grain tank is not clean.



H119778—UN—05JAN17

Downhill Sensitivity

1. Select plus (+) to increase or minus (-) to decrease desired sensitivity.

   Minimum: -100%

   Maximum: 100%

   Increment: 10%



H114674—UN—03JAN17

Close

2. Select to close.

SS43267,0000950-19-17MAY17

Offset Tuning | Cleaning Fan

Offset Tuning | Cleaning Fan adjusts the Step Size amount to the fan speed when commanded by the Active Terrain Adjustment™ (ATA) system.

NOTE: The word "Managed" always appears on the Integrated Combine Adjustment 2 Main Screen in the Cleaning Fan area.

Modify When:

NOTE: Adjust the step sizes if sensitivity adjustments are ineffective.

Increasing Step Size:

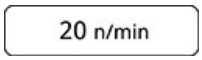
When maximum sensitivity setting is not achieving desired results, or when all but one component needs more adjustment than the others.

Decreasing Step Size:

When minimum sensitivity setting is not achieving desired results, or when all but one component needs less adjustment than the others.

NOTE: Step sizes are individual increments, not the total range of the adjustments or number of adjustments.

Procedure to Modify:



H119128—UN—05JAN17

Step Size

1. Select to open Step Size page.



H118542—UN—05JAN17

Step Size

2. Select desired value.



H114644—UN—05JAN17

Fan Speed

Minimum: 20 rpm

Default: Based on crop being harvested.

Maximum: 50 rpm

Increment: 10 rpm



H114674—UN—03JAN17

Close

Active Terrain Adjustment is a trademark of Deere & Company

3. Select to close.

SS43267,0000951-19-17MAY17

Offset Tuning | Sieve

Offset Tuning | Sieve adjusts the Step Size amount to the fan speed when commanded by the Active Terrain Adjustment™ (ATA) system.

Modify When:

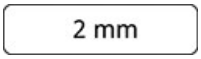
NOTE: Adjust the step sizes if sensitivity adjustments are ineffective.

Increasing Step Size:

When minimum sensitivity setting is not achieving desired results, or when all but one component needs less adjustment than the others.

NOTE: Step sizes are individual increments, not the total range of the adjustments or number of adjustments.

Procedure to Modify:



H119751—UN—30JAN17

Step Size

1. Select Step Size to open number pad and enter desired value.



H114646—UN—05JAN17

Sieve

Minimum: 1 mm

Default: Based on crop being harvested.

Maximum: 3 mm

Increment: 1 mm



H119859—UN—30JAN17

Include in automation

2. Uncheck to prevent ATA from adjusting the sieve.

NOTE: Include in automation" defaults to checked.

NOTE: If "Include in automation" is checked, the word "Managed" appears on the main screen. If not checked then the word "Ignored" appears on-screen.



H114674—UN—03JAN17

Close

3. Select to close.

SS43267,0000952-19-17MAY17

Offset Tuning | Chaffer

Offset Tuning | Chaffer adjusts the Step Size amount to the fan speed when commanded by the Active Terrain Adjustment™ (ATA) system.

Modify When:

NOTE: NOTE: Adjust the step sizes if sensitivity adjustments are ineffective.

Increasing Step Size:

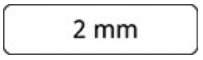
When maximum sensitivity setting is not achieving desired results, or when all but one component needs more adjustment than the others.

Decreasing Step Size:

When minimum sensitivity setting is not achieving desired results, or when all but one component needs less adjustment than the others.

NOTE: NOTE: Step sizes are individual increments, not the total range of the adjustments or number of adjustments.

Procedure to Modify:



H119751—UN—30JAN17

Step Size

1. Select Step Size to open number pad and enter desired value.



H114645—UN—05JAN17

Chaffer

Minimum: 1 mm

Default: Based on crop being harvested.

Maximum: 3 mm

Active Terrain Adjustment is a trademark of Deere & Company

Increment: 1 mm



H119859—UN—30JAN17

Include in Automation

2. Uncheck to prevent ATA from adjusting the chaffer.

NOTE: Include in automation" defaults to checked.

NOTE: If "Include in automation" is checked the word "Managed" appears on the main screen. If not checked then the word "Ignored" appears on-screen.



H114674—UN—03JAN17

Close

3. Select to close.

SS43267,0000953-19-17MAY17

Auto Maintain | Settings

Auto Maintain | Settings allows you to set the Response Aggressiveness and sensitivity levels for Grain Loss, Broken Grain, and Foreign Material.

Items Accessible on Auto Maintain | Settings Page:

Crop Type— displays the harvested crop.

Instructions— describes how aggressiveness and sensitivity affect the system.



H119432—UN—30JAN17

Default Aggressiveness

Response Aggressiveness— controls how frequently Auto Maintain makes adjustments when Issues are present.



H119433—UN—30JAN17

Maximum Sensitivity

Grain Loss Sensitivity— the amount of change in grain loss needed to initiate a system change.



H119434—UN—30JAN17

Lowered Sensitivity

Broken Grain Sensitivity— the amount of change in broken grain needed to initiate a system change.



H119435—UN—30JAN17

Increased Sensitivity

Foreign Material Sensitivity— the amount of change in foreign material needed to initiate a system change.

SS43267,0000954-19-30JAN17

Grain Loss | Sensitivity

Grain Loss | Sensitivity controls how fast the system recognizes grain loss before making an automatic change.

Modify When:

Increase sensitivity if you see shoe loss or separator loss and Auto Maintain is not detecting the issue.

Decrease sensitivity if Auto Maintain is detecting a shoe loss or separator loss issue and the performance of that area is still acceptable to you.

Procedure to Modify:



H119857—UN—30JAN17

Sensitivity

Select Plus (+) button to increase and Minus (-) button to decrease.



H119858—UN—30JAN17

Minimum Sensitivity

Display States:

Minimum— recognition is slowest in this setting.



H119434—UN—30JAN17

Lowered Sensitivity

Lowered— recognition is slower in this setting.



H119432—UN—30JAN17

Default Sensitivity

Default— starting point of recognition.



H119435—UN—30JAN17

Increased Sensitivity

Increased— recognition is faster in this setting.



H119433—UN—30JAN17

Maximum Sensitivity

Maximum— recognition is fastest in this setting.

SS43267,0000955-19-17MAY17



H119435—UN—30JAN17

Increased Sensitivity

Increased— recognition is faster in this setting.



H119433—UN—30JAN17

Maximum Sensitivity

Maximum— recognition is fastest in this setting.

SS43267,0000956-19-17MAY17

Broken Grain | Sensitivity

Broken Grain | Sensitivity controls how fast the system recognizes broken grain.

Modify When:

Increase sensitivity if you see an unacceptable amount of Broken Grain in the grain tank and Auto Maintain is not detecting an issue.

Decrease sensitivity if Auto Maintain is detecting a broken grain issue and the performance of that area is still acceptable to you.

Procedure to Modify:



H119857—UN—30JAN17

Sensitivity

Select Plus (+) button to increase and Minus (-) button to decrease.



H119858—UN—30JAN17

Minimum Sensitivity

Display States:

Minimum— recognition is slowest in this setting.



H119434—UN—30JAN17

Lowered Sensitivity

Lowered— recognition is slower in this setting.



H119432—UN—30JAN17

Default Sensitivity

Default— starting point of recognition.

Foreign Material | Sensitivity

Foreign Material | Sensitivity controls how fast the system recognizes foreign material.

Modify When:

Increase sensitivity if you see an unacceptable amount of Foreign Material Light, Foreign Material Heavy, or Unthreshed Grain in the grain tank and Auto Maintain is not detecting an issue.

Decrease sensitivity if Auto Maintain is detecting a Foreign Material Light, Foreign Material Heavy, or Unthreshed Grain issue and the performance of that area is still acceptable to you.

Procedure to Modify:



H119857—UN—30JAN17

Sensitivity

Select Plus (+) button to increase and Minus (-) button to decrease.



H119858—UN—30JAN17

Minimum Sensitivity

Display States:

Minimum— recognition is slowest in this setting.



H119434—UN—30JAN17

Lowered Sensitivity

Lowered— recognition is slower in this setting.



H119432—UN—30JAN17

Default Sensitivity

Default— starting point of recognition.



H119435—UN—30JAN17

Increased Sensitivity

Increased— recognition is faster in this setting.



H119433—UN—30JAN17

Maximum Sensitivity

Maximum— recognition is fastest in this setting.

SS43267,0000957-19-17MAY17

Default— starting point for adjustment frequency.



H119435—UN—30JAN17

Increased Aggressiveness

Increased— adjustments are made more frequently.



H119433—UN—30JAN17

Maximum Aggressiveness

Maximum— adjustments are made most frequently.

SS43267,0000958-19-17MAY17

Response aggressiveness

Response Aggressiveness controls how frequently Auto Maintain makes adjustments to the machine when an issue is present.

Modify When:

Increase aggressiveness if Auto Maintain is not making adjustments quickly enough to resolve the issues that are found.

Decrease aggressiveness if Auto Maintain is making adjustments too quickly to resolve the issues that are found.

Procedure to Modify:



H119857—UN—30JAN17

Aggressiveness

Select Plus (+) button to increase and Minus (-) button to decrease.



H119858—UN—30JAN17

Display States:

Minimum— adjustments are made least frequently.



H119434—UN—30JAN17

Lowered Aggressiveness

Lowered— adjustments are made less frequently.



H119432—UN—30JAN17

Default Aggressiveness

HarvestSmart™ | Settings

HarvestSmart™varies ground speed to maintain a constant flow of material through the machine, maximizing productivity and reducing operator fatigue.

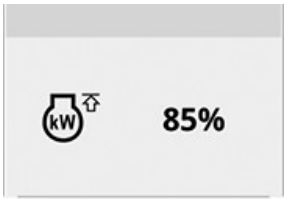
Items Accessible on HarvestSmart™ Main Page:



H118563—UN—20JAN17

Target Pressure

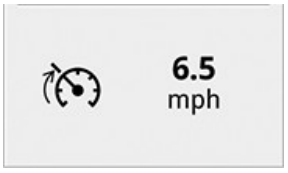
Target Pressure— allows you to adjust target volume, material throughput, or machine capacity.



H114681—UN—20JAN17

Maximum Engine Power

Engine Power— sets the maximum allowable engine load that HarvestSmart™ is allowed to operate.

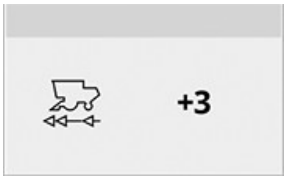


H118568—UN—20JAN17

Maximum Ground Speed

Ground Speed— sets the maximum allowable ground speed for HarvestSmart™ to operate.

HarvestSmart is a trademark of Deere & Company



H114682—UN—20JAN17

Aggressiveness

Aggressiveness— allows you to adjust how quickly the system responds to changes in VisionTrak™ loss or threshing system load.

SS43267,0000959-19-17MAY17

Target Pressure

Target Pressure allows the machine to maintain a consistent load on the separator.

Modify When:

You want to make adjustments to the target based on VisionTrak™ results.

- If VisionTrak™ indicates that total grain loss is below the green area on the corner post display, increase target pressure.
- If VisionTrak™ indicates that total grain loss is above the green area on the corner post display, decrease target pressure.



H118563—UN—20JAN17

Target Pressure

Procedure to Modify:

1. Select plus (+) to increase or minus (-) to decrease desired pressure.

NOTE: NOTE: When you adjust Target Pressure, the setting starts at current pressure and can be adjusted up or down from there.

Minimum— 0%

Maximum— 100%

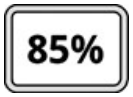
Increments— 0.5%



H118559—UN—20JAN17

Close

2. Select to close.



H118564—UN—20JAN17

Target Pressure

Alternative Procedure to Modify:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired setting.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— 0%

   Maximum— 100%

   Increments— 0.5%

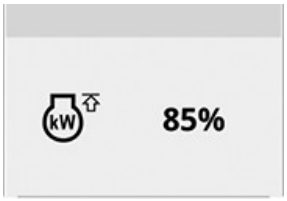
SS43267,000095A-19-17MAY17

Maximum Engine Power

Maximum Engine Power sets the maximum allowable engine load that HarvestSmart™ is allowed to operate.

Modify When:

- If harvesting in conditions such as dry, level terrain, even feeding, and standing crop, operating at a higher Maximum Engine Power can promote more capacity and efficiency.
- If harvesting in conditions such as mud, steep terrain, slug feeding, and lodged crop, operating at a lower Maximum Engine Power allows for more consistent performance and reduced risk of engine stalling.



H114681—UN—20JAN17

Maximum Engine Power

Procedure to Modify:

1. Select to adjust Maximum Engine Power.

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HarvestSmart is a trademark of Deere & Company



H118569—UN—31JAN17

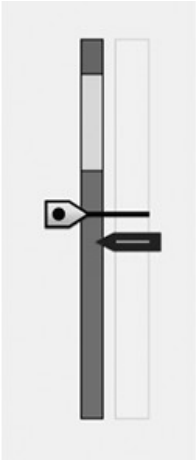
Maximum Engine Power

2. Select plus (+) to increase or minus (-) to decrease maximum engine power.

   Minimum— 80%

   Maximum— 106%

   Increments— 1%



H118583—UN—31JAN17

Maximum Engine Power Meter

Maximum Engine Power Meter— shows engine power usage and maximum engine power setting. The system will not allow target to be set in the red, but it can be operated in the yellow.

NOTE: If harvesting in mud, steep hills, or adverse conditions, target the top portion of the green to allow for additional power consumption and more consistent system performance.



H118584—UN—20JAN17

Indicator

Indicator shows maximum engine power setting.



H118585—UN—20JAN17

Indicator

Indicator shows current engine power usage.



H118559—UN—20JAN17

Close

3. Select to close.



H118572—UN—20JAN17

Alternative Procedure to Modify:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired engine power.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— 80%

   Maximum— 106%

   Increments— 1%

SS43267,000095B-19-17MAY17

Maximum Ground Speed

Maximum Ground Speed sets the maximum allowable ground speed for HarvestSmart™to operate.

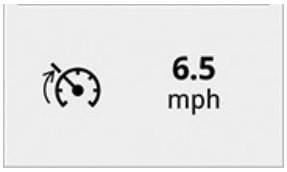
NOTE: Multi-function lever position always limits maximum ground speed.

Modify When:

- You do not want your combine running over a specific speed because the terrain is rough or feeding conditions exist that could plug the header. Set it to the speed at which you want to operate.

EX: Your head becomes limited at 8 km/h (5 mph). Set ground speed to 7.5 km/h (4.7 mph).

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H118568—UN—20JAN17

Maximum Ground Speed

Procedure to Modify:

1. Select to adjust Maximum Ground Speed.



H118570—UN—31JAN17

Maximum Ground Speed

2. Select plus (+) to increase or minus (-) to select desired ground speed.

   Minimum— 2.0 km/h (1.2 mph)

   Maximum— 14.0 km/h (8.7 mph)

   Increments— 0.1 km/h (0.1 mph)



H118559—UN—20JAN17

Close

3. Select to close.



H118573—UN—20JAN17

Maximum Ground Speed

Alternative Procedure to Modify:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired ground speed.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— 2.0 km/h (1.2 mph)

   Maximum— 14.0 km/h (8.7 mph)

   Increments— 0.1 km/h (0.1 mph)

CS12167,0000B6F-19-07JUN18

Response Aggressiveness

Response Aggressiveness controls how quickly the HarvestSmart™ system responds to crop density changes.

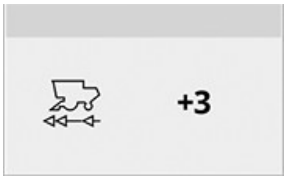
Modify When:

Increase When:

You want the machine to react faster to changes in harvesting conditions.

Decrease When:

You want the machine to react slower to changes in harvesting conditions.



H114682—UN—20JAN17

Aggressiveness

Procedure to Modify:

1. Select to access Response Aggressiveness.



H118571—UN—31JAN17

Aggressiveness

2. Select plus (+) to increase or minus (-) to decrease desired aggressiveness.

   Minimum— -10

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Maximum— +10

Increments— 1.0



H118559—UN—20JAN17

Close

3. Select to close.



H118574—UN—20JAN17

Aggressiveness

Alternative Procedure to Modify:

1. Select to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use Armrest Adjustment Dial to select desired aggressiveness.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

   Minimum— -10

   Maximum— +10

   Increments— 1.0

SS43267,000095D-19-17MAY17

ICA2 Diagnostics

ICA2 Diagnostics show system requirements, faults and statuses for HarvestSmart™ Active Terrain Adjustment™ , and Auto Maintain.

Items Accessible on Integrated Combine Adjustment 2 Diagnostics Page:



H119779—UN—30JAN17

Automation Status

Automation Status— displays the highest priority status of any individual system.



H119753—UN—30JAN17

HarvestSmart™

HarvestSmart™— select HarvestSmart™ screen area to view more information on faults, system requirements, and status.



H119754—UN—30JAN17

Active Terrain Adjustment™

Active Terrain Adjustment™— select Active Terrain Adjustment™ screen area to view more information on faults, system requirements, and status.



H119755—UN—30JAN17

Auto Maintain

Auto Maintain— select Auto Maintain screen area to view more information on faults, system requirements, and status.

SS43267,000095E-19-17MAY17

Automation Status

Automation Status displays the highest priority status of any individual system such as Active Terrain Adjustment™ ,HarvestSmart™ , or Auto Maintain.

Items Displayed on the Integrated Combine Adjustment 2 Status Page:



H113788—UN—30JAN17

Gray

Automation OFF



H113784—UN—30JAN17

Green

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Active Terrain Adjustment is a trademark of Deere & Company

OK— is shown when any part of Integrated Combine Adjustment 2 (ICA2) is enabled and ready for operation.

NOTE: OK is shown when any part of Integrated Combine Adjustment 2 (ICA2) is enabled and ready. Even if you have systems turned OFF, if at least one function of ICA2 is enabled and working normally, OK is shown.



H113786—UN—30JAN17

Amber

Attention Required—only issues that require your attention (not related to "normal" operation) will be elevated to the "Attention Needed" state.



H113787—UN—30JAN17

Red

Fault Detected—only issues that are reported as "Faults" (hardware or sensor failures) reach this state.

NOTE: "Multiple systems affected" text only appears when more than one subsystem is reporting elevated issues.

SS43267,000095F-19-17MAY17

HarvestSmart™ Status

HarvestSmart™ Status is used to communicate the current state of the HarvestSmart™ system. Status also allows you to view requirements that must be met for the system to operate properly.



H119191—UN—30JAN17

HarvestSmart™

Select screen area under HarvestSmart™ to open status page.

Items Displayed on HarvestSmart™ Status Page:

NOTE: Not all faults are listed below. Select screen area to open list of current statuses.



H114658—UN—05JAN17

Amber

Not Ready— set Performance Target.



H114656—UN—05JAN17

Green

Ready— press the 3 or 2 button on the multi-function lever to resume HarvestSmart™.



H114659—UN—05JAN17

Blue

Active— automating ground speed.



H114656—UN—05JAN17

Green

Maintaining Ground Speed— pull multi-function control lever to regain control.



H114656—UN—05JAN17

Green

Acquiring New Performance Target— maintain consistent harvesting conditions.



H114658—UN—05JAN17

Amber

Not Ready— machine must be ready to harvest.



H114658—UN—05JAN17

Amber

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Not Ready— separator must be engaged.



H114658—UN—05JAN17

Amber

Max Speed Limited— maximum ground speed limit reached.



H114658—UN—05JAN17

Amber

Engine Power Limited— maximum engine power limit reached.



H114658—UN—05JAN17

Amber

Error Detected | Reduced Performance— separator sensor error present.



H114658—UN—05JAN17

Amber

Error Detected | Reduced Performance— (right/left) shoe loss sensor error present.



H114658—UN—05JAN17

Red

Error Detected— separator drive pressure sensor error present.



H114655—UN—05JAN17

Gray

Automation OFF



H114655—UN—05JAN17

Gray

Automation OFF | Error Detected— separator drive pressure sensor error present.

HarvestSmart™ Requirements:

- HarvestSmart™ automation must be ON.
- Performance Target must be set.
- Machine must be ready to harvest:
  - Separator must be engaged.
  - Header must be engaged.
  - Engine must be set to high idle.
  - Road Mode must not be enabled.
- Press the 3 or 2 button on the multi-function lever to resume HarvestSmart™.



H113789—UN—30JAN17

Exclamation Mark

A message appears when a requirement is not met.



H119194—UN—30JAN17

Check Mark

Once a condition has been met, a green check appears.



H116936—UN—30JAN17

Close

Select to close.

SS43267,0000960-19-17MAY17

Active Terrain Adjustment™ Status

Active Terrain Adjustment™ (ATA) Status is used to communicate the current state of the ATA system. Status also allows you to view requirements that must be met for the system to operate properly.

Active Terrain Adjustment is a trademark of Deere & Company



H119192—UN—30JAN17

Active Terrain Adjustment™

Select screen area under Active Terrain Adjustment™ (ATA) to open status page.

Items Displayed on Active Terrain Adjustment™ Status Page:

NOTE: Not all faults are listed below. Select screen area to open list of current statuses.



H114659—UN—05JAN17

Blue

Applying Offsets— accommodating for terrain.



H114656—UN—05JAN17

Green

Monitoring



H114658—UN—05JAN17

Amber

Not Ready— pitch sensor requires calibration.



H114658—UN—05JAN17

Amber

Not Ready— header must be below record stop height.



H114658—UN—05JAN17

Amber

Not Ready— machine must be ready to harvest.



H114658—UN—05JAN17

Amber

Not Ready— engine must be set to high idle.



H114657—UN—05JAN17

Red

Error Detected— attention required.



H114657—UN—05JAN17

Red

Error Detected— fan system fault present.



H114655—UN—05JAN17

Gray

Automation OFF

Active Terrain Adjustment™ Requirements:

- ATA automation must be ON.
- Machine must be ready to harvest:
  - Separator must be engaged.
  - Header must be engaged.
  - Engine must be set to high idle.
  - Road Mode must not be enabled.
- Header must be below record stop height.



H113789—UN—30JAN17

Exclamation Mark

A message appears when a requirement is not met.



H118541—UN—30JAN17

Header Details

Requirement not met for "Header must be below record stop height", select to access Header Details page.



H119194—UN—30JAN17

Green Check

Once a condition has been met, a green check appears.



H116936—UN—30JAN17

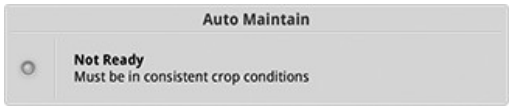
Close

Select to close.

SS43267,00000961-19-17MAY17

Auto Maintain Status

Auto Maintain Status is used to communicate the current state of the Auto Maintain system. Status also allows you to view requirements that must be met for the system to operate properly.



H119193—UN—30JAN17

Auto Maintain

Select screen area under Auto Maintain to open status page.

Items Displayed on Auto Maintain Status Page:

NOTE: Not all faults are listed below. Select screen area to open list of current statuses.



H114659—UN—05JAN17

Blue

Auto Adjustment— applying setting change.



H114659—UN—05JAN17

Blue

Applying Offsets— continuing to monitor changes.



H114656—UN—05JAN17

Green

Acquiring New Performance Target



H114656—UN—05JAN17

Green

Monitoring



H114658—UN—05JAN17

Amber

Not Ready— action required.



H114657—UN—05JAN17

Red

Error Detected— attention required.



H114655—UN—05JAN17

Gray

Automation OFF

Auto Maintain Requirements:

- Auto Maintain automation must be ON.
- Crop type must be supported by Auto Maintain.
- Performance Target must be set.
- Machine must be ready to harvest:
  - Separator must be engaged.
  - Header must be engaged.
  - Engine must be set to high idle.
  - Road Mode must not be enabled.
- Must be in consistent crop conditions:
  - Machine must have steady ground speed.
  - Crop flow must be present.
- Header must be below record stop height.



H113789—UN—30JAN17

Exclamation Mark

A message appears when a requirement is not met.



H118541—UN—30JAN17

Select to Access

Select to access the page that corresponds to the unmet requirement.



H119194—UN—30JAN17

Green Check

Once a condition has been met, a green check appears.



H116936—UN—30JAN17

Close

Select to close.

SS43267,0000962-19-17MAY17

Grain Handling

Access Grain Handling



H113668—UN—22OCT15

Menu

Access application through display:

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H114773—UN—10JAN17

Grain Handling

3. Grain Handling



H114775—UN—10JAN17

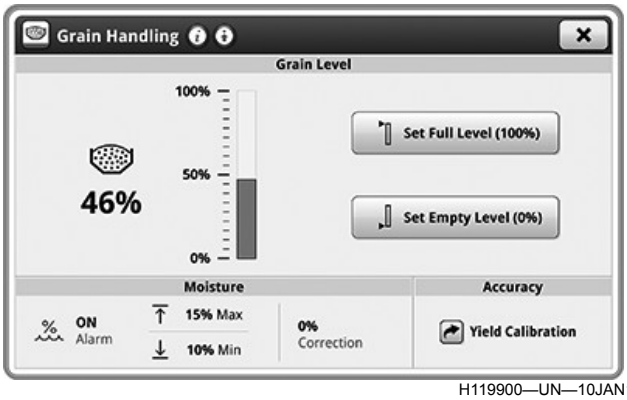
Grain Handling

Access application through navigation bar:

Press Grain Handling button on navigation bar below display.

SS43267,00008B3-19-27JAN17

Grain Handling Main Page



H119900—UN—10JAN17

Grain Handling

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Grain Handling application is used to access and modify Grain Level settings, Moisture, and Accuracy. Advanced Settings are used to modify Grain Level Auto Beacon, Tank Unloading Offset, and Custom Level Alarm.

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H114778—UN—10JAN17

Moisture

Items accessible on Grain Handling Main Page:

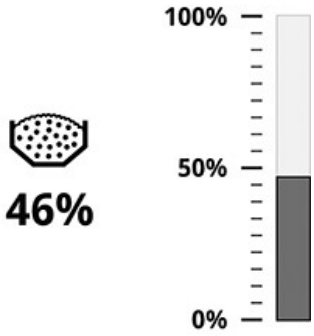
Moisture— enable or disable moisture alarm, set maximum and minimum moisture alarm settings, and set moisture correction.



H114779—UN—10JAN17

Yield Calibration

Accuracy— access Yield Calibration.



H115000—UN—10JAN17

Grain Level

Grain Level Items

Grain Level— displays current grain tank level.



H114776—UN—10JAN17

Set Full Level

Set Full Level— set grain tank full level.



H114777—UN—10JAN17

Set Empty Level

Set Empty Level— set grain tank empty level.

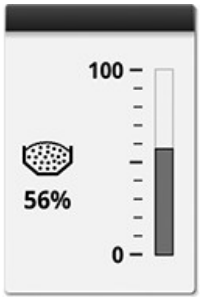


N118004—UN—22OCT15

Advanced Settings

Advanced Settings Items

Advanced Settings— access further adjustments and less common settings.



H116266—UN—31JAN17

Grain Level

Run Page Modules

Modules for this application can be added to run pages using Layout Manager.

Example:

Grain Level— gives you direct access to Grain Level application.

NOTE: Different modules can be available for your application.

SS43267,0000807-19-17MAY17

Advanced Settings

Advanced Settings allows you to access further adjustments and less common settings.



H113848—UN—04JAN17

ON/OFF

Items accessible on Advanced Settings page:

Grain Level Auto Beacon— beacon light illuminates when grain tank is 3/4 full or is full.



H120462—UN—10JAN17

Offset Setting

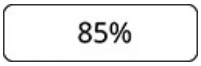
Tank Unloading Offset— adjust grain tank empty level if all grain is not emptied from grain tank or unloading auger continues to run after grain tank is empty.



H113848—UN—04JAN17

ON/OFF

Custom Level Alarm— message appears on the screen when selected grain level has been met.



H119129—UN—10JAN17

Custom Level Alarm Input Box

Custom Level Alarm Input Box— select to edit custom level alarm.

SS43267,00008B4-19-27JAN17

Advanced Settings | Grain Level Auto Beacon

Grain Level Auto Beacon illuminates when grain tank is 3/4 full or is full.

Modify To:

- Enable or disable Grain Level Auto Beacon.
- Provide a signal that the grain tank is 3/4 or full.



H114769—UN—22OCT15

ON/OFF

Procedure to Modify:

Select to enable or disable Grain Level Auto Beacon.

SS43267,00008B5-19-17MAY17

Advanced Settings | Tank Unloading Offset

Tank Unloading Offset allows you to adjust grain tank empty level if all grain is not emptied from grain tank or grain level does not show 0% after grain tank is empty. Different crops, weights, and moisture can affect grain tank level sensor readings.

Modify When:

- Grain remains in tank after grain tank level reads 0%.

- Grain tank is emptied before grain tank level reads 0%.



H114780—UN—10JAN17

Decrease

Procedure to Modify:

- Decrease offset value if grain remains in tank when grain tank level reads 0%.
- Increase offset value if grain tank is emptied before grain tank level reads 0%.

Select to decrease value.



H114781—UN—10JAN17

Increase

Select to increase value.

Minimum: -15

Maximum: 15

Increment: (+/-) 1

SS43267,00008B6-19-27JAN17

Advanced Settings | Custom Level Alarm

Custom Level Alarm allows you to enable a message to appear on the screen when selected grain level has been met.

Modify To:

- Enable or disable Custom Level Alarm.
- Set an additional earlier notification of grain tank level other than 3/4 full or full.
- Set a lower alarm threshold.

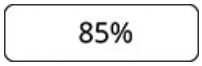


H114769—UN—22OCT15

ON/OFF

Procedure to Modify:

1. Select to enable or disable Custom Level Alarm.



H119129—UN—10JAN17

Input Box

2. Select to open number pad and enter desired value.



H114789—UN—10JAN17

OK

3. Select OK to save value.

NOTE: When custom level alarm is met, a message appears on-screen. The message can be viewed in the Status Center on the display.

SS43267,00008B7-19-27JAN17

Grain Level

Grain Level allows you to set correct grain tank Full Level or grain tank Empty Level if grain level is not reading correctly.

Modify When:

- Set a lower grain tank level to avoid spilling grain over the sides when operating in hilly conditions.
- As Grain Level fills up, you have the opportunity to set when tank is actually full - thus calibrating the 100% reading.
- As grain tank is unloading, you might notice that tank is actually empty, even though system believes it is still unloading grain. You can select "Set Empty Level" button to tell the system that it is empty.



H114776—UN—10JAN17

Set Full Level

Procedure to Modify:

Select to save grain tank full level.



H114777—UN—10JAN17

Set Empty Level

Select to save grain tank zero level.

NOTE: Selecting Set Empty Level will automatically adjust Tank Unloading Offset.

NOTE: Grain level 3/4 and full beacon will adjust based on grain level.

SS43267,00008B8-19-17MAY17

Moisture Settings

Moisture Settings allows you to enable or disable

moisture alarm, set maximum and minimum moisture alarm settings, set moisture correction, and enable or disable Use Fixed Moisture.

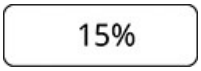


H113848—UN—04JAN17

ON/OFF

Items accessible on Moisture Settings page:

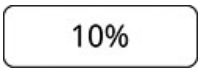
ON/OFF— enable or disable Moisture Alarm.



H119131—UN—10JAN17

Maximum Moisture Value

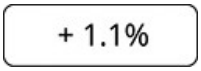
Maximum Moisture— upper limit to activate the moisture alarm.



H119130—UN—10JAN17

Minimum Moisture Value

Minimum Moisture— lower limit to activate the moisture alarm.



H119132—UN—10JAN17

Correction Value

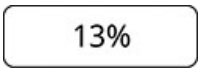
Correction— amount of correction needed to match a certified moisture measurement.



H114786—UN—10JAN17

Unchecked

Use Fixed Moisture— enable or disable fixed moisture.



H119133—UN—10JAN17

Fixed Moisture Value

Use Fixed Moisture— fixed moisture level.



N118004—UN—22OCT15

Advanced Settings

Advanced Settings— further Moisture Settings adjustments and less common settings.

SS43267,00008B9-19-27JAN17

Moisture Alarm

Moisture Alarm allows you to enable or disable the Moisture Alarm that sounds when moisture value drops below minimum or above maximum setting.

Modify To:

- Enable or disable the Moisture Alarm.
- Adjust the minimum moisture percentage.
- Adjust the maximum moisture percentage.

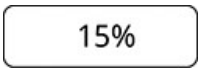


H114769—UN—22OCT15

ON/OFF

Procedure to Modify:

- Select to enable or disable Moisture Alarm.



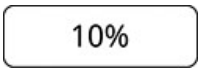
H119131—UN—10JAN17

Maximum

- Select to set percentage for alarm to sound when moisture percentage is above value.

  Minimum: 1%

  Maximum: 60%



H119130—UN—10JAN17

Minimum

- Select to set percentage for alarm to sound when moisture percentage is below value.

  Minimum: 1%

  Maximum: 50%

NOTE: Maximum moisture percentage must be set higher than minimum moisture percentage.

SS43267,00008BA-19-17JAN17

Moisture Correction

Moisture Correction allows you to toggle between Moisture Correction or Fixed Moisture, adjust the value when moisture percentage measured by combine moisture sensor differs from the elevator certified

moisture, and disable moisture sensor reading and force a preset moisture value.

Modify To:

- Toggle between moisture correction and fixed moisture.
- Change amount of correction needed to match a certified moisture reading.
- Change fixed moisture level used when the fixed moisture feature is enabled.



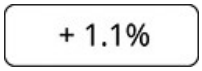
H114785—UN—10JAN17

Checked

Moisture Correction Procedure:

Set moisture correction to difference between combine moisture sensor and elevator certified moisture sensor. {Example: elevator moisture (13%) minus combine measured moisture (12%) = moisture difference (+1%)}

1. If Use Fixed Moisture is checked, deselect checkbox to enable Correction.



H119132—UN—10JAN17

Value

2. Select to open number pad and enter desired value.



H114789—UN—10JAN17

OK

3. Select OK to save value.

NOTE: Moisture correction can be a positive or negative number.

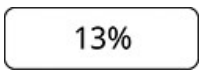


H114786—UN—10JAN17

Unchecked

Fixed Moisture Procedure:

1. If Use Fixed Moisture is not checked, select checkbox to enable.



H119133—UN—10JAN17

Value

2. Select to open number pad and enter desired value.



H114789—UN—10JAN17

OK

3. Select OK to save value.

SS43267,00008BB-19-17JAN17

Status Center

Status Center provides status and quick access for Grain Handling functions. See Display Overview for more information.



H116268—UN—10JAN17

Unloading Auger

Items accessible for Grain Handling in Status Center:

Unloading Auger Swung Out—

Unloading Auger Engaged— grain is flowing



H116267—UN—10JAN17

Grain Level

Grain Level— shown as either 3/4 or 4/4.

NOTE: Selecting Set Empty Level will automatically adjust Tank Unloading Offset.

NOTE: Grain level 3/4 and full beacon will adjust based on grain level.

SS43267,00008BC-19-17MAY17

Folding

Access Folding



H113668—UN—22OCT15

Menu

Access application through display:

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H114607—UN—10JAN17

Folding

3. Folding



H115016—UN—22MAR16

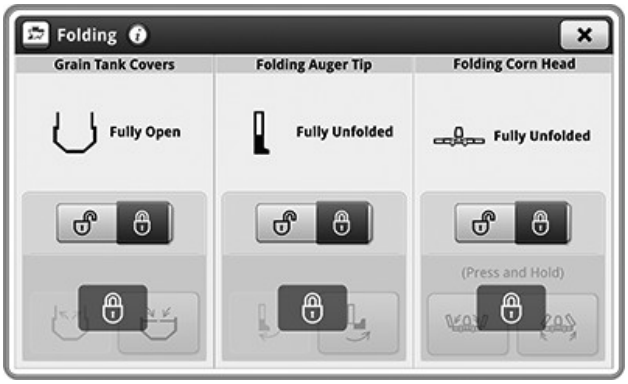
Folding

Access application through navigation bar:

Press Folding button on navigation bar below display.

SS43267,00008BD-19-27JAN17

Folding Main Page



H119899—UN—06JAN17

Folding

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Folding Application is used to operate folding equipment.



H114615—UN—06JAN17

Lock/Unlock

Items Accessible on Folding main page:

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Grain Tank Covers Items:

Grain Tank Covers— lock or unlock grain tank covers folding function buttons.



H114620—UN—06JAN17

Locked Status

Content Blocker— shows locked status. Prevents accidental engagement of the function.



H114615—UN—06JAN17

Lock/Unlock

Folding Auger Tip Items:

Folding Auger Tip— lock or unlock auger tip folding function buttons.



H114624—UN—06JAN17

Locked Status

Content Blocker— shows locked status. Prevents accidental engagement of the function.



H114615—UN—06JAN17

Lock/Unlock

Folding Corn Head (With Position Sensors):

Folding Corn Head— lock or unlock corn head folding function buttons.



H116240—UN—06JAN17

Locked Status

Content Blocker— shows locked status. Prevents accidental engagement of the function.

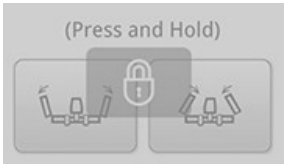


H114615—UN—06JAN17

Lock/Unlock

Folding Corn Head (Without Position Sensors):

Folding Corn Head— lock or unlock corn head folding function buttons.



H114625—UN—06JAN17

Locked Status

Content Blocker— shows locked status. Prevents accidental engagement of the function.

SS43267,0000808-19-27JAN17

Grain Tank Covers

Grain Tank Covers allows you to open and close grain tank covers from within the cab.

CAUTION: Avoid power line entanglement. Grain tank covers must be closed before transporting machine.

IMPORTANT: Unload grain before closing grain tank covers.

NOTE: Grain tank covers must be fully opened in order to engage separator.

Modify To:

- Configure machine for field operation.
- Service machine components.
- Configure machine for road transportation or storage.
- Clean out machine.



H114612—UN—06JAN17

Position Unknown Error

Procedure to Modify:

NOTE: When a position unknown error is present on Grain Tank Covers, one-touch folding is unavailable. Select and hold buttons to fold or unfold grain tank covers.

NOTE: You can press the quick-stop switch on multi-function lever at any time to stop all movement controlled by the Folding application. Resume folding by selecting desired button.



H114619—UN—06JAN17

Lock/Unlock

1. Select to unlock fold and unfolding buttons.



H114623—UN—06JAN17

Open

2. Select desired button to fold or unfold grain tank covers.
   - Select to fully open grain tank covers.



H114621—UN—06JAN17

Close

   - Select to close grain tank covers.



H114616—UN—06JAN17

Progress Indicator

Displays progress of grain tank covers when opening and closing.



H114622—UN—06JAN17

Open/Close

NOTE: You can interrupt grain tank cover movement at any time by selecting either of the action buttons. Resume folding by selecting desired button.



H114627—UN—06JAN17

Fully Open



H114640—UN—06JAN17

Fully Closed

- Folding status is displayed on screen when action is complete.



H114615—UN—06JAN17

Lock

NOTE: System automatically changes to locked status 30 seconds after last button selection.

NOTE: Locked state prevents you from accessing folding controls, however it does not stop equipment that is already in motion. Locked state does not block physical controls that can be assigned to actuate movement in Controls Setup application.

SS43267,00008BE-19-17MAY17

Folding Auger Tip

Folding Auger Tip allows you to fold and unfold unloading auger tip as required.

Modify To:

- Configure machine for field operation.
- Service machine components.
- Configure machine for road transportation or storage.



H114612—UN—06JAN17

Position Unknown Error

Procedure to Modify:

NOTE: When a position unknown error is present on Folding Auger Tip, one-touch folding is unavailable. Select and hold buttons to fold or unfold auger tip.

NOTE: You can press the quick-stop switch on multi-function lever at any time to stop all movement controlled by the Folding application. Resume folding by selecting desired button.



H114619—UN—06JAN17

Unlock

1. Select to unlock fold and unfolding buttons.
2. Select desired button to fold or unfold auger tip.



H114637—UN—06JAN17

Unfold

- Select to unfold auger tip.



H114628—UN—06JAN17

Fold

- Select to fold auger tip.



H114616—UN—06JAN17

Progress Indicator

Displays progress of auger tip when unfolding and folding.



H114629—UN—06JAN17

Unfold/Fold

NOTE: You can interrupt auger tip folding movement at any time by selecting either of the action buttons. Resume folding by selecting desired button.



H114631—UN—06JAN17

Fully Unfolded



H114641—UN—06JAN17

Fully Folded

- Folding status is displayed on screen when action is complete.



H114615—UN—06JAN17

Locked

NOTE: System automatically changes to locked status 30 seconds after last button selection.

NOTE: Locked state prevents you from accessing folding controls, however it does not stop equipment that is already in motion. Locked state does not block physical controls that can be assigned to actuate movement in Controls Setup application.

SS43267,00008BF-19-17MAY17

Folding Corn Head (Without Position Sensors)

Folding Corn Head Control allows you to fold and unfold corn head.

Modify To:

- Configure machine for field operation.
- Service machine components.
- Detaching corn head from machine.
- Gain clearance at headlands.
- Configure machine for road transportation.

CAUTION: Follow local government laws and regulations regarding transporting a header on roadways.



H114619—UN—06JAN17

Unlock

Procedure to Modify:

NOTE: You can press the quick-stop switch on multi-function lever at any time to stop all movement controlled by the Folding application. Resume folding by selecting desired button.

1. Select to unlock fold and unfolding buttons.



H115022—UN—06JAN17

Unfold

2. Select and hold desired button to fold or unfold corn head.

NOTE: You can interrupt folding movement at any time by releasing the action button. Resume folding by selecting and holding desired button.

- Select and hold to unfold corn head.



H115021—UN—06JAN17

Fold

- Select and hold to fold corn head.



H114615—UN—06JAN17

Lock

NOTE: System automatically changes to locked status 30 seconds after last button selection.

NOTE: Locked state prevents you from accessing folding controls, however it does not stop equipment that is already in motion. Locked state does not block physical controls that can be assigned to actuate movement in Controls Setup application.

SS43267,00008C0-19-17MAY17

Folding Corn Head (With Position Sensors)

Folding Corn Head Control allows you to fold and unfold corn head.

Modify To:

- Configure machine for field operation.
- Service machine components.
- Detaching corn head from machine.
- Gain clearance at headlands.
- Configure machine for road transportation.

CAUTION: Follow local government laws and regulations regarding transporting a header on roadways.



H114619—UN—06JAN17

Unlock



H114615—UN—06JAN17

Lock

Procedure to Modify:

NOTE: You can press the quick-stop switch on multi-function lever at any time to stop all movement controlled by the Folding application. Resume folding by selecting desired button.

1. Select to unlock fold and unfolding buttons.



H114617—UN—06JAN17

Unfold

2. Select and hold desired button to fold or unfold corn head.
   - Select and hold to unfold corn head.



H115021—UN—06JAN17

Fold

   - Select and hold to fold corn head.

   NOTE: You can interrupt folding movement at any time by releasing the action button. Resume folding by selecting and holding desired button.



H114616—UN—06JAN17

Progress Indicator

Displays progress of corn head when unfolding and folding.



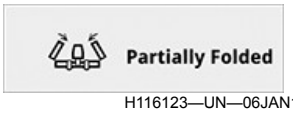
H116122—UN—06JAN17

Partially Unfolded



H116121—UN—06JAN17

Fully Unfolded



H116123—UN—06JAN17

Partially Folded



H116124—UN—06JAN17

Fully Folded

   - A folding corn head equipped with position sensors will display current folding status.

NOTE: System automatically changes to locked status 30 seconds after last button selection.

NOTE: Locked state prevents you from accessing folding controls, however it does not stop equipment that is already in motion. Locked state does not block physical controls that can be assigned to actuate movement in Controls Setup application.

SS43267,00008C1-19-17MAY17

Harvest Settings

Access Harvest Settings



H113668—UN—22OCT15

Menu

Access Application Through Display:

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H113528—UN—27JAN17

Harvest Settings

3. Harvest Settings



H116102—UN—27JAN17

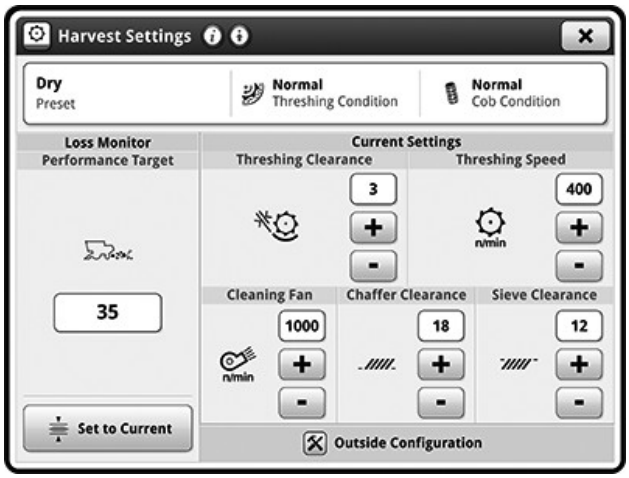
Harvest Settings

Access Application Through Navigation Bar:

Press the Harvest Settings button on the navigation bar below the display.

SS43267,00008E7-19-26JAN17

Harvest Settings Main Page



H120310—UN—27JAN17

Harvest Settings

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Harvest Settings is used to adjust the threshing and cleaning performance for minimum harvest loss based on crop harvested and crop conditions.

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H116974—UN—27JAN17

Load Harvest Settings

Items Accessible on Harvest Settings Main Page:

Load Harvest Settings— allows you to make default selections on Presets, Threshing Conditions, and Straw/Cob Conditions to help grain cleanliness and grain loss.



H119104—UN—30JAN17

Performance Target

Performance Target— allows you to select the acceptable grain loss for your machine.



H119125—UN—27JAN17

Set To Current

Set to Current— select to set the new "acceptable loss" to the current loss level.



H113683—UN—27JAN17

Threshing Clearance

Threshing Clearance— allows you to modify the threshing clearance.



H113685—UN—27JAN17

Threshing Speed

Threshing Speed— allows you to modify the threshing speed.



H113684—UN—27JAN17

Cleaning Fan

Cleaning Fan— allows you to modify the fan speed.



H116095—UN—27JAN17

Outside Configuration

Outside Configuration— shows the external machine adjustments that must be made prior to harvesting a selected crop type.



N118004—UN—22OCT15

Advanced Settings

Advanced Settings— allows you to access further adjustments and less common settings.



H113706—UN—27JAN17

Chaffer Clearance

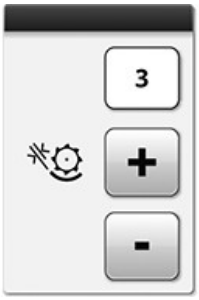
Chaffer Clearance— allows you to modify the opening of the chaffer elements.



H113693—UN—27JAN17

Sieve Clearance

Sieve Clearance— allows you to modify the opening of the sieve elements.



H116117—UN—30JAN17

Clearance

Run Page Modules:

Modules for this application can be added to the run pages using Layout Manager.

Example:

Clearance— allows you to adjust the threshing clearance.

NOTE: Different modules can be available for your application.

SS43267,0000963-19-21JUN17

Load Harvest Settings

Load Harvest Settings allows you to make default selections on Presets, Threshing Conditions, and Straw/Cob Conditions to help grain cleanliness and grain loss.

NOTE: Changing Crop Type in Work Setup causes change in harvest settings. See Effects of Crop Change for further information.

Items Accessible on Load Harvest Settings Page:

Preset— allows you to select defaults, previous preset

values, and adjust previous preset values to adjust to crop conditions.

Threshing Conditions— allows you to describe the threshing conditions so the system can help determine correct machine settings.

Straw Conditions— allows you to describe the straw/cob conditions so the system can help determine correct machine settings.



H113683—UN—27JAN17

Threshing Clearance

Settings Preview— displays the current settings and displays your setting changes in bold in the "New" column.

NOTE: If an adjustment is made by Active Terrain Adjustment™ or Integrated Combine Adjustment 2, the values update to provide you the most current value.

Threshing Clearance



H113685—UN—27JAN17

Threshing Speed

Threshing Speed



H113684—UN—27JAN17

Cleaning Fan

Cleaning Fan



H113706—UN—27JAN17

Chaffer Clearance

Chaffer Clearance



H113693—UN—27JAN17

Sieve Clearance

Sieve Clearance



H116984—UN—27JAN17

Save Preset

Save Preset— allows you to save changes made to Presets, Threshing Conditions, and Straw/Cob Conditions.

SS43267,0000978-19-26JAN17

Load Harvest Settings | Preset

Preset allows you to select from a list of saved machine configurations for a given crop.

Modify When:

Modify or create your own preset to capture the harvest settings that provide the desired performance and grain quality for the crop and conditions that you are harvesting.



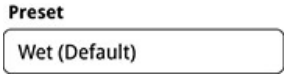
H116974—UN—27JAN17

Load Harvest Settings

Procedure to Modify:

1. Select to open.

NOTE: Other than corn, all other crop types are listed with default first, then clean out option, and finally, all of your created presets in alphabetical order.



H118081—UN—27JAN17

Preset

2. Select to open Select Preset.



H119178—UN—27JAN17

Select Preset

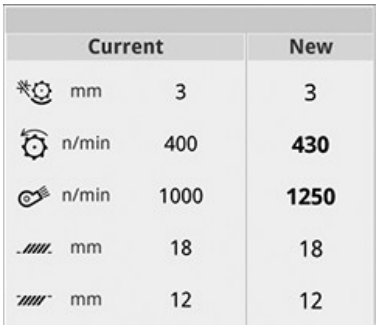
3. Select desired preset.



H116106—UN—27JAN17

OK

4. Select to save preset and return to Load Harvest Settings.



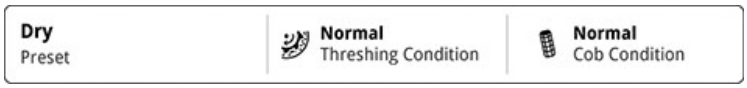
H116110—UN—27JAN17

Current / New

NOTE: As you select a different preset, the "New" column of Settings Preview updates to display the settings change in bold.

When presets for defaults are changed, the "New" column value in the Settings Preview changes. Defaults remain unchanged when changing presets within the crop type.

NOTE: When modifications are made to the selected preset, the word (Modified) is added to the name.

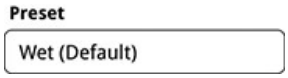


H116974—UN—27JAN17

Load Harvest Settings

Procedure to Delete:

1. Select to open.



H118081—UN—27JAN17

Preset

2. Select to open Select Preset.



H119178—UN—27JAN17

Select Preset

3. Select desired preset.



H116104—UN—27JAN17

Delete

4. Select to delete Preset.

NOTE: Presets that you created can be deleted. If pressed, a message dialogue is shown to confirm the delete action on the preset.



H116105—UN—27JAN17

Cancel

5. Select to cancel if you do not wish to delete the selected preset.



H116106—UN—27JAN17

OK

NOTE: Manually record data by hand before deleting. If you delete a preset, it is removed from the display and cannot be undone.

6. Select to delete the preset.

SS43267,0000964-19-03FEB17

Load Harvest Settings | Threshing Conditions

Threshing Conditions allows you to select from three options to choose the best description of your current threshing conditions.

Modify To:

- Difficult if there is unthreshed grain or white caps present in the sample.
- Normal if a satisfactory sample is created using the

threshing settings within the recommended range for that crop.

- Easy if grain separates from the hull or cob before entering the threshing section.

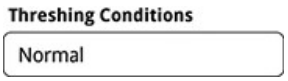


H116974—UN—27JAN17

Load Harvest Settings

Procedure to Modify:

1. Select to open.



H118083—UN—27JAN17

Threshing Conditions

2. Select the Threshing Conditions list box to open list of the threshing conditions.
3. Select the desired threshing condition.
   - Difficult— increased threshing aggressiveness to reduce unthreshed grain.
   - Normal— regular settings for ordinary harvest conditions.
   - Easy— decreased threshing aggressiveness to reduce power consumption and grain damage.



H116105—UN—27JAN17

Cancel

4. Select to cancel if you do not wish to change.



H116106—UN—27JAN17

OK

5. Select to save the Threshing Condition.

NOTE: Once selected, the system begins adjusting the settings to match the selected preset you have chosen.



H116113—UN—27JAN17

Close

6. Select to close.

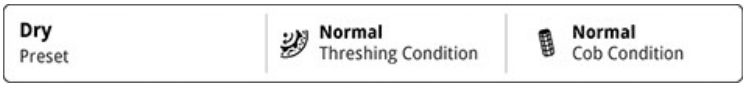
SS43267,0000965-19-01FEB17

Load Harvest Settings | Straw Conditions

Straw Conditions allows you to select from three options to choose the best description of your current straw condition.

Modify To:

- Difficult when harvesting tough, wet straw, green stems, or lots of material other than grain is being processed.
- Normal when ordinary material handling for the crop is present.
- Brittle when harvesting very dry straw or stems that break easily creating an undesirable sample.

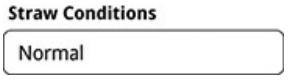


H116974—UN—27JAN17

Load Harvest Settings

Procedure to Modify:

1. Select to open.



H118086—UN—27JAN17

Straw Conditions

2. Select Straw Conditions list box.
3. Select the desired Straw Condition.
   - Difficult— improves material flow in tough or wet straw.
   - Normal— regular settings for ordinary harvest conditions.
   - Brittle— decreases straw breakage to reduce cleaning shoe load.



H116105—UN—27JAN17

Cancel

4. Select to cancel if you do not wish to change the Preset Modifiers.



H116106—UN—27JAN17

OK

5. Select to save Straw Condition.

NOTE: Once selected, the system begins adjusting the settings to match the selected preset you have chosen.



H116113—UN—27JAN17

Close

6. Select to close.

SS43267,0000966-19-01FEB17

Load Harvest Settings | Save Preset

Save Preset allows you to create a new preset or to update the last preset you used.

Items Accessible on Save Preset:

Default Preset— allows you to change default presets and save them as your own custom preset.

Custom Preset— allows you to either update an existing custom preset or create a preset.

SS43267,0000967-19-26JAN17

Load Harvest Settings | Save Preset | Factory Default

Default Presets are factory loaded settings for each combination of Threshing Condition and Straw/Cob Quality for a given crop. You can modify these defaults and save them as a new name based on your harvesting conditions.

Modify When:

Modify or create your own preset to capture the harvest settings that provide the desired performance and grain quality for the crop and conditions that you are harvesting.



H116974—UN—27JAN17

Load Harvest Settings

Procedure to Modify:

1. Select to access the Load Harvest Settings page.



H116984—UN—27JAN17

Save Preset

2. Select to save the preset as a new name.
3. Use the keyboard to enter the name of this customized setting.



H116105—UN—27JAN17

Cancel

4. Select to cancel if you do not want to save the preset.



H116107—UN—27JAN17

OK

5. Select to save the preset.

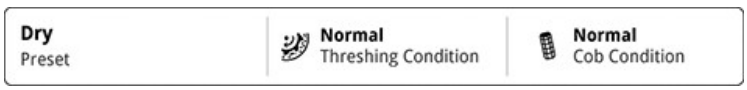
SS43267,0000968-19-01FEB17

Load Harvest Settings | Save Preset | Custom Preset

Custom Presets are defined by you based on your harvesting conditions. These can be modified as crop conditions or machine performance changes.

Modify When:

- Harvesting different varieties of a particular crop.
- Harvesting at different times of the day (morning and evening versus afternoon).
- Harvesting in different grain moisture (wet crop versus dry crop).



H116974—UN—27JAN17

Load Harvest Settings

Procedure to Modify:

1. Select to access the Load Harvest Settings page.



H116984—UN—27JAN17

Save Preset

2. Select to save the preset and activate the keyboard.
3. Select an option to save the current Harvest Setting.



H116289—UN—27JAN17

Selection

Create a New Preset

Enter a new Preset name



H116289—UN—27JAN17

Selection

Update Last Used Preset

"Corn"



H116105—UN—27JAN17

Cancel

4. Select to cancel if you do not wish to save the preset.



H116107—UN—27JAN17

OK

5. Select to save the preset.

SS43267,0000969-19-01FEB17

Load Harvest Settings | Effects of Crop Change

Changing the crop type in Work Setup also makes changes to the Load Harvest Settings.



H116105—UN—27JAN17

Cancel

Selecting Cancel on the Load Harvest Settings page while changing crop type in Work Setup results in the combine not being adjusted.

NOTE: The "Preset" indication shown on the Harvest Settings main page shows "- -" until a new preset is loaded.



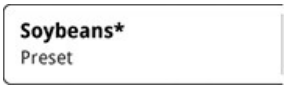
H116106—UN—27JAN17

OK

Selecting OK changes the Load Harvest Settings based on the crop selected.

NOTE: On crop type change, Harvest Settings reverts to the default settings for the newly selected crop type.

- If the crop type has never been used, the factory default settings are set.
- If the last used settings were a preset, the preset is selected, the last used threshing and straw conditions are selected, and individual settings are set to last use (matching the preset and conditions set).



H119175—UN—27JAN17

Preset

- If the last used settings were custom, the Preset shows {PresetName}* and the individual settings are set to the last used.

SS43267,000096A-19-17MAY17

Current Settings | Threshing Clearance

Threshing Clearance allows you to modify the threshing clearance for varying crops and conditions.

NOTE: For the threshing clearance settings, refer to Crop Settings section in your Operator's Manual.

Modify To:

Increase Threshing Clearance To:

- Improve straw quality; making longer straw and generates less breakage of material.
- Improve grain quality; reduce splits and grain damage.
- Reduce power consumption; for easy threshing grain.
- Improve sample cleanliness; reduce chaff load on the cleaning shoe.

Decrease Threshing Clearance To:

- Reduce unthreshed separator loss; unhulled grain or grain on the cob behind the machine.
- Improve grain tank sample; reduce white caps or unopened pods.

Adjustment States— depending on machine options, different adjustment states may appear as current settings are changed.



H113683—UN—27JAN17

Threshing Clearance

Procedure to Modify:

1. Select to set the threshing clearance.



H113698—UN—30JAN17

Adjustment

2. Select plus (+) to increase or minus (-) to decrease threshing clearance or select the input field and use the Armrest Adjustment Dial to make desired clearance changes.



H116282—UN—27JAN17

Input Field



H115034—UN—28MAR16

Armrest Adjustment Dial

- Turn the dial clockwise to increase the value.
- Turn the dial counterclockwise to decrease the value.

NOTE: Depending on machine configurations, some values may not be reached.

NOTE: Maximum value may not be attainable if dense pack elements are installed.

Minimum: 0

Maximum: 40

Increment: 1



H116113—UN—27JAN17

Close

3. Select to close.

SS43267,000096B-19-17MAY17

Current Settings | Threshing Speed

Threshing Speed allows you to modify the threshing speed for varying crop conditions.

NOTE: For the threshing speed settings, refer to Crop Settings section in your Operator's Manual.

Modify To:

Increase Threshing Speed To:

- Allow grain to be removed from the other crop material before it escapes the separator.
- Improve material flow.
- Achieve more capacity in tough material conditions.
- Improve handling in tough straw.
- Reduce the risk of plugging when taking in large amounts of material.

Decrease Threshing Speed To:

- Reduce power consumption; reduce threshing speed in easy threshing grain for improved efficiency.
- Improve grain sample quality; generate less chaff and foreign material in the cleaning shoe by reducing threshing speed.
- Reduce grain damage; broken kernels and splits can occur if the threshing speed is too fast, even if the concave clearance is set correctly.

NOTE: The threshing speed may increase about 30 rpm over 4 hours as the oil temperature increases. Adjust the speed as necessary.



H113685—UN—27JAN17

Threshing Speed

Procedure to Modify:

1. Engage the separator and run the engine at high idle.
2. Select to modify the threshing speed.



H116279—UN—30JAN17

Adjustment

3. Select plus (+) to increase or minus (-) to decrease speed or select the input field and use the Armrest Adjustment Dial to make desired speed changes.



H118087—UN—27JAN17
Input Field



H115034—UN—28MAR16
Armrest Adjustment Dial

- Turn the dial clockwise to increase the value.
- Turn the dial counterclockwise to decrease the value.

NOTE: Threshing has a two speed gearbox, with high and low speeds. Minimum and Maximum values may require you to change the gearbox setting. See Operator's Manual for further information on which speed should be selected.

NOTE: Depending on machine configurations, some values may not be reached.

Minimum: 200 rpm

Maximum: 1000 rpm

Increment: 10 rpm



H116113—UN—27JAN17
Close

4. Select to close.

SS43267,000096C-19-17MAY17

Current Settings | Cleaning Fan

Cleaning Fan Speed allows you to modify the fan speed to improve grain cleanliness and reduce grain loss.

NOTE: For the fan speed settings, refer to Crop Settings section in your Operator's Manual.

Modify To:

Increase Fan Speed To:

- Improve sample quality; reduce the amount chaff or light material other than grain in the grain tank by blowing it out.

Decrease Fan Speed To:

- Reduce cleaning shoe loss; smaller lighter grains can be carried out of the cleaning shoe if the cleaning fan speed is too high.



H113684—UN—27JAN17
Cleaning Fan Speed

Procedure to Modify:

1. Engage the separator and run the engine at high idle.
2. Select to set the cleaning fan speed.



H116982—UN—30JAN17
Adjustment

3. Select plus (+) to increase or minus (-) to decrease speed or select the input field and use the Armrest Adjustment Dial to make desired speed changes.



H118088—UN—27JAN17
Input Field



H115034—UN—28MAR16
Armrest Adjustment Dial

- Turn the dial clockwise to increase the value.
- Turn the dial counterclockwise to decrease the value.

NOTE: Minimum and Maximum values may change if machine is equipped with a cleaning fan slow down Kit.

Minimum: 620 rpm

Maximum: 1350 rpm

Increment: 10 rpm



H116113—UN—27JAN17
Close

4. Select to close.

SS43267,000096D-19-01FEB17

Current Settings | Chaffer Clearance

Chaffer Clearance allows you to modify the opening of the chaffer elements to improve the grain cleanliness and reduce the cleaning shoe loss for varying crops and conditions.

NOTE: For the chaffer clearance settings, refer to Crop Settings section in your Operator's Manual.

Modify To:

Increase Chaffer Clearance To:

- Reduce cleaning shoe loss; allows the grain to fall through sooner before it can escape the cleaning shoe.
- Reduce tailings; allows the grain to fall through sooner before it is forced into the tailings.

Decrease Chaffer Clearance To:

- Improve sample quality; reduce the amount of larger, foreign material in the grain tank.



H113706—UN—27JAN17

Chaffer Clearance

Procedure to Modify:

1. Select to set the chaffer clearance.



H116993—UN—30JAN17

Adjustment

2. Select plus (+) to increase or minus (-) to decrease the desired chaffer clearance.



H118089—UN—27JAN17

Input Field



H115034—UN—28MAR16

Armrest Adjustment Dial

3. Turn the dial clockwise to increase the value.
4. Turn the dial counterclockwise to decrease the value.

NOTE: Depending on machine configurations, some values may not be reached.

General Purpose:

Minimum: 0

Maximum: 22

Increment: 1

Deep Tooth:

Minimum: 0

Maximum: 30

Increment: 1



H116113—UN—27JAN17

Close

5. Select to close.

SS43267,000096E-19-01FEB17

Current Settings | Sieve Clearance

Sieve Clearance allows you to modify the opening of the sieve to improve grain cleanliness and manage tailings volumes for varying crops and conditions.

NOTE: For the sieve clearance settings, refer to Crop Settings section in your Operator's Manual.

Modify To:

Increase Sieve Clearance To:

- Reduce tailings; allows more grain to fall through to clean grain sooner before it is recirculated in tailings.
- Increase cleaning fan air flow; increasing sieve clearance allows more cleaning fan air up through the chaffer.

Decrease Sieve Clearance To:

- Increase tailings; for any hard threshing grain, force any unthreshed material back through the separator.
- Improve sample quality; reduce the amount of foreign material in the grain tank.



H113693—UN—27JAN17

Sieve Clearance

Procedure to Modify:

1. Select to set the sieve clearance.



H116994—UN—30JAN17

Adjustment

2. Select plus (+) to increase or minus (-) to decrease the desired sieve clearance.



H118090—UN—27JAN17

Input Field

- Turn the dial clockwise to increase the value.



H115034—UN—28MAR16

Armrest Adjustment Dial

- Turn the dial counterclockwise to decrease the value.

NOTE: Depending on machine configurations, some values may not be reached.

General Purpose:

Minimum: 0

Maximum: 22

Increment: 1

Deep Tooth:

Minimum: 0

Maximum: 30

Increment: 1



H116113—UN—27JAN17

Close

3. Select to close.

SS43267,000096F-19-26JAN17

Current Settings | Outside Configuration

Outside Configuration shows external machine adjustments that must be made prior to harvesting the selected crop type.

NOTE: For more information, refer to the machine Operator's Manual.



H116095—UN—27JAN17

Outside Configuration

Procedure to Modify:

⚠ CAUTION: Shut OFF engine, set the park brake, and remove the key before making changes.

1. Select to access outside configuration.
2. Select desired outside configuration for further information on machine settings.

   Chopper Speed

   Crop Diverter

   Tailings System Concave Position (If Equipped)

   Feed Accelerator Speed

   Feeder House Drum Position

   Feeder House Conveyor Chain Sprocket



H116113—UN—27JAN17

Close

3. Select to close.

SS43267,0000970-19-26JAN17

Current Settings | Adjustment States

Adjustment States show how the system adjustment settings react when machine changes are made.

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H116277—UN—27JAN17

Progress Indicator

Operator Initiated Changes:

NOTE: Operator changes are made using the display or the Armrest Adjustment Dial.

Operator Initiated Changes Progress Indicator.



H118102—UN—27JAN17

Input Field

Operator Initiated Setpoint Value Input Field.



H118101—UN—27JAN17

Performance Value

The value displayed below the setting icon represents the actual performance value.

NOTE: The actual value representing the system, which is below the icon, flashes until the actual value matches the new setpoint. Once the value reaches the new setpoint, it continues to display for 1 second before the value and progress indicator are removed from the screen.



H116278—UN—27JAN17

Progress Indicator

Integrated Combine Adjustment 2 (ICA2) Initiated Changes:

NOTE: At any time, you can make manual adjustments while an ICA2 adjustment is being applied. The manual adjustment is made using the current setpoint as a base for making a change.

ICA2 Initiated Progress Indicator.



H118094—UN—27JAN17

Input Field

ICA2 Initiated Setpoint Value Input Field.



H118101—UN—27JAN17

Performance Value

The value displayed below the setting icon represents the actual performance value.

NOTE: The actual value representing the system, which is below the icon, flashes until the actual value matches the new setpoint. Once the value reaches the new setpoint, it continues to display for 1 second before the value and progress indicator are removed from the screen.

NOTE: After ICA2 adjustments are reached, and after a minimum of 30 seconds have elapsed since the start of ICA2, the blue input field with "AUTO" changes back to black.



H116278—UN—27JAN17

Progress Indicator

Active Terrain Adjustment™ (ATA) Initiated Changes:

ATA Initiated Progress Indicator.



H118094—UN—27JAN17

Input Field

ATA Initiated Setpoint Value Input Field.



H116277—UN—27JAN17

Progress Indicator

Operator initiated changes Progress Indicator.



H118107—UN—27JAN17

Input Field

Operator initiated setpoint value input field while ATA is running.

NOTE: While the setpoint input field has encoder focus, the text of the setpoint remains blue. Also, the standard "encoder focus" input field highlight replaces the blue input field while encoder focus is maintained.



H118101—UN—27JAN17

Performance Value

The value displayed below the setting icon represents the actual performance value.

NOTE: The actual value representing the system, which is below the icon, flashes until the actual value matches the new setpoint. Once the value reaches the new setpoint, it continues to display for 1 second before the value and progress indicator are removed from the screen.

NOTE: ATA Offset indication appears similar to the ICA2 auto-adjustment; however, the input field remains blue with "AUTO" printed on it to indicate that the system is maintaining the offset.

SS43267,0000971-19-17MAY17

Advanced Settings

Advanced Settings allows you to access further adjustments and less common settings.



H116272—UN—27JAN17

Separator Solution

Items Accessible on Advanced Settings Page:

Separator Resolution— allows you to modify the number of bars shown on the Corner Post Display VisionTrak™ for the separator loss indicator (independent of the number of center bars).



H116272—UN—27JAN17

Shoe Solution

Shoe Resolution— allows you to modify the number of bars shown on the Corner Post Display VisionTrak™ for the shoe loss indicator (independent of the number of center bars).

SS43267,0000972-19-26JAN17

Advanced Settings | Separator Resolution

Separator Resolution allows you to modify the number of bars on the Corner Post Display VisionTrak™ for the separator loss indicator.

Prior to Modification:

1. Harvest with the machine at current settings.
2. Perform a Power Shutdown (see Operator's Manual for procedure).
3. Inspect for any grain loss from the separator.

NOTE: If loss is present, determine if the loss is acceptable to the amount of bars indicated by the VisionTrak™ display.

Modify When:

Modify when the VisionTrak™ display does not indicate the amount of grain loss from the separator that is preferred.

- Increase Separator Resolution to show more emphasis on grain loss from the threshing & separating section.
- Decrease Separator Resolution to show less emphasis on grain loss from the threshing & separating section.



N118004—UN—22OCT15

Advanced Settings

Procedure to Modify:

1. Select the Advanced Settings button.



H118553—UN—27JAN17

Slide Bar

NOTE: Slide bar displays the current resolution.

VisionTrak is a trademark of Deere & Company



H116272—UN—27JAN17

Separator Resolution

2. Select plus (+) to increase or minus (-) to decrease the separator resolution.

   Minimum: -5

   Maximum: 5

   Default: 0

   Increment: 1



H116113—UN—27JAN17

Close

3. Select to close.

SS43267,0000973-19-17MAY17

Advanced Settings | Shoe Resolution

Shoe Resolution allows you to modify the number of bars on the Corner Post Display VisionTrak™ for the separator loss indicator.

Prior to Modification:

1. Harvest with the machine at current settings.
2. Perform a Power Shutdown (see Operator's Manual for procedure).
3. Inspect for any grain loss from the cleaning shoe.

NOTE: If loss is present, determine if the loss is acceptable to the amount of bars indicated by the VisionTrak™ display.

Modify When:

Modify when the VisionTrak™ display does not indicate the amount of grain loss from the cleaning shoe that is preferred.

- Increase Shoe Resolution to show more emphasis on grain loss from the cleaning shoe section.
- Decrease Shoe Resolution to show less emphasis on grain loss from the cleaning shoe section.



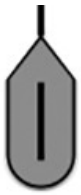
N118004—UN—22OCT15

Advanced Settings

VisionTrak is a trademark of Deere & Company

Procedure to Modify:

1. Select the Advanced Settings button.



H118553—UN—27JAN17

Slide Bar

NOTE: Slide bar displays the current resolution.



H116272—UN—27JAN17

Shoe Resolution

2. Select plus (+) to increase or minus (-) to decrease the shoe resolution.

   Minimum: -5

   Maximum: 5

   Default: 0

   Increment: 1



H116113—UN—27JAN17

Close

3. Select to close.

SS43267,0000974-19-17MAY17

Performance Target

Performance Target allows you to set acceptable grain losses for your machine.

Modify When:

- Changing crop type.
- Harvesting conditions vary (wet crop versus dry crop, high moisture versus low moisture, variety A versus variety B, or large swings in seed size or yield).

Procedure to Modify:

NOTE: Larger seed sizes such as corn or soybeans generally have a lower numerical calibration value than smaller seed sizes like wheat or canola.

NOTE: Selecting a lower calibration value will register more bars on the display for the same acceptable grain loss.



H119125—UN—27JAN17

Set To Current

Automatic:

NOTE: Operate the machine at the desired performance and select Set to Current, this stores operating characteristics to memory and centers the total loss indicator.

Select Set to Current to automatically set the new "acceptable loss" to the current loss level.

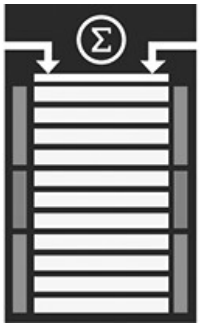


H119105—UN—27JAN17

Input Field

Manual:

Select to open number pad and manually enter desired value.



H117836—UN—22DEC16

Total Loss Indicator

NOTE: Total Loss Indicator bar graph is now a visual guide. You can refer to the corner post display periodically to know when an increase or decrease in total loss amount occurs.

NOTE: If machine is above green area it is either incorrectly adjusted for acceptable loss or moving too fast for ground speed.

NOTE: If machine is below green area it is either incorrectly adjusted for acceptable loss or moving too slow for ground speed.

NOTE: When machine encounters a “slug”, middle bar graph will fluctuate upward (15 to 20 seconds) and return to previous reading. Ignore these fluctuations when this occurs.

SS43267,0000A64-19-13DEC17

Engine

Access Engine

Access Application Through Display:



H113668—UN—22OCT15

Menu

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H113552—UN—09MAR16

Engine

3. Engine



H113709—UN—04JAN17

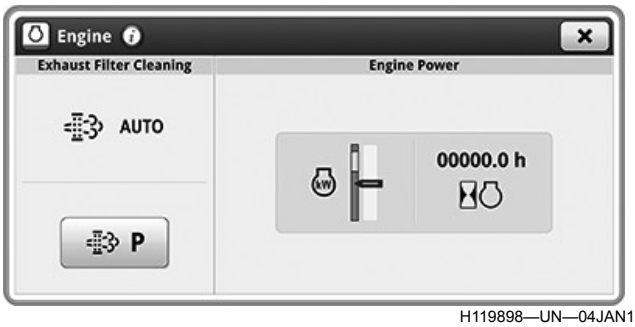
Engine Application Button

Access Application Through Navigation Bar:

Press Engine button on navigation bar below display.

SS43267,0000899-19-17MAY17

Engine Main Page



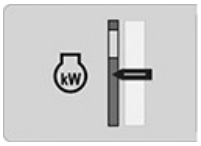
H119898—UN—04JAN17

Engine

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

The Engine application is used to access and adjust engine settings.



H113549—UN—04JAN17

Engine Power

Items Accessible on the Engine Main Page:

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Engine Power— amount of power the engine is using.



H115017—UN—04JAN17

Engine Hours

Engine Hours— accumulated engine hours.



H113829—UN—04JAN17

Auto Exhaust Filter Cleaning

AUTO Exhaust Filter Cleaning— automated process that performs exhaust filter cleaning during normal operation as required.



H113830—UN—04JAN17

Parked Filter Cleaning

Parked Filter Cleaning— process which allows the system to perform additional exhaust filter cleaning when required.



H114602—UN—04JAN17

Debris Management

Debris Management Filter Capacity— indicator of used and remaining filter capacity.



H118112—UN—04JAN17

Air Compressor

Air Compressor— toggle button to enable or disable air compressor system.



H115023—UN—04JAN17

Engine Power

Run Page Modules

Modules for this application can be added to run pages using Layout Manager.

Example:

Engine Power— shows engine hours and power output of the engine.

NOTE: Different modules can be available for your application.



H118309—UN—04JAN17

Air Compressor

Shortcut Keys

Shortcut keys for this application can be added to the shortcut bar using Layout Manager.

Air Compressor Shortcut Key— allows you quick access to turn air compressor ON/OFF.

SS43267,000080A-19-03FEB17

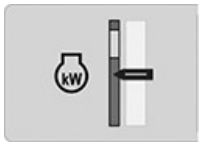
Engine Power

A power meter is available on both the display and the corner post display for visual indication of current power consumption.

IMPORTANT: If alerts or excessive exhaust smoke are visible, see your John Deere dealer or other qualified service provider for further diagnosis.

Isochronous Engine Governor

Keeps the engine and driven component speeds constant to enhance capacity and efficiency until rated engine power is exceeded.

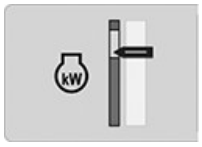


H113549—UN—04JAN17

Green Zone

Power Meter

- Green Zone— operate engine at upper portion of the green zone to maximize machine productivity and maintain constant engine speed.

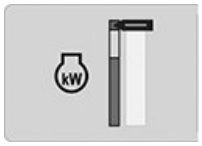


H113551—UN—04JAN17

Yellow Zone

- Yellow Zone— preferred upper limit in tough conditions. Less power bulge available in this zone.

  Target lower range of the yellow zone before unloading auger is engaged.



H113550—UN—04JAN17

Red Zone

- Red Zone— peak power level and is not recommended for extended periods because no power reserve is available.

IMPORTANT: If indicator moves into the red zone, engine power is maximized and the machine could potentially stall. Reduce load on the machine until indicator moves back into green or yellow zones.

Operating in the following conditions increases power consumption:

- Hilly terrain
- Heavy or wet crop
- Wet ground conditions
- Excessive ground speed

SS43267,000089A-19-17JAN17

Exhaust Filter System Overview

Your machine is equipped with an emission-compliant engine, which cleans and filters the exhaust. Under normal machine operation and with the system in AUTO mode, the system requires minimal operator interaction.



H113829—UN—04JAN17

Auto Exhaust Filter Cleaning

To avoid the unnecessary buildup of diesel particulates or soot in the exhaust filter system:

- Utilize AUTO Exhaust Filter Cleaning mode.
- Avoid unnecessary idling.
- Use proper engine oil.
- Use only ultra low sulfur fuel.

NOTE: For more information, refer to Fuels and Lubricants section in the machine Operator's Manual.

CAUTION: When AUTO or PARKED cleaning is enabled, the exhaust temperature can be high under no load or light load conditions at certain times during the exhaust filter cleaning cycle.

Servicing machine or attachments during the exhaust filter cleaning can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.

During auto or manual/stationary exhaust filter cleaning operations, the engine runs at elevated idle and hot temperatures for an extended period. Exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite, or melt common materials.

AUTO Mode— automated process that performs exhaust filter cleaning during normal operation.

Disable AUTO Exhaust Filter— in conditions where it can be unsafe for elevated exhaust temperatures.



H113830—UN—04JAN17

Parked Filter Cleaning

Parked Filter Cleaning— process which allows the system to perform additional exhaust filter cleaning when required.

Engine Cool Down— period of cool down after exhaust filter cleaning.

SS43267,000089B-19-03JAN17

AUTO Exhaust Filter Cleaning



H113829—UN—04JAN17

Auto Exhaust Filter Cleaning

AUTO Mode allows the Exhaust Filter System to perform exhaust filter cleaning as required. Corner post display indicator and armrest display provide you with information related to exhaust filter system activity.



H113561—UN—07NOV16

Exhaust Filter Cleaning Indicator

Exhaust Filter Cleaning Indicator illuminates when the exhaust filter system is actively performing exhaust filter cleaning.

CAUTION: When AUTO or PARKED cleaning is enabled, the exhaust temperature can be high under no load or light load conditions at certain times during the exhaust filter cleaning cycle. Disable exhaust filter cleaning system in conditions where it can be unsafe for elevated exhaust temperatures.

NOTE: System defaults to AUTO mode when parked exhaust filter cleaning is complete or key switch is cycled.

Disable AUTO Exhaust Filter Cleaning system in conditions where it can be unsafe for elevated exhaust temperatures.

IMPORTANT: Damage to exhaust cleaning components can occur if engine is turned OFF while performing exhaust filter cleaning or shortly after cleaning is complete. Alarm sounds and a warning message appears on display. Start machine and follow messages on display to allow components to cool. See Engine Cool Down In Progress.

SS43267,000089C-19-03JAN17

Parked Filter Cleaning

Parked Filter Cleaning is a process which you initiate to clean the exhaust filter when required.

During the process, engine speed is controlled by the system, and the machine must remain parked to complete the procedure. Time required for the Parked Filter Cleaning process is dependent upon the level of exhaust filter restriction, ambient temperatures, and current exhaust gas temperature.



H113804—UN—09MAR16

Abort

Procedure to Modify:

CAUTION: When AUTO or PARKED cleaning is enabled, the exhaust temperature can be high under no load or light load conditions at certain times during the exhaust filter cleaning cycle.

Servicing machine or attachments during the exhaust filter cleaning can result in serious personal injury. Avoid exposure and skin contact with hot exhaust gases and components.

During auto or manual/stationary exhaust filter cleaning operations, the engine runs at elevated idle and hot temperatures for an extended period. Exhaust gases and exhaust filter components reach temperatures hot enough to burn people, or ignite, or melt common materials.

IMPORTANT: Damage to exhaust cleaning components can occur if engine is turned OFF while performing exhaust filter cleaning or shortly after cleaning is complete. Start machine and follow messages on display to allow components to cool. See Engine Cool Down In Progress.

NOTE: Parked Filter Cleaning can exceed 40 minutes.

Select Abort at any time during Parked Filter Cleaning procedure to cancel process.



H113830—UN—04JAN17

Parked Filter Cleaning

1. Select Parked Exhaust Filter Cleaning button.
2. Verify that the machine is configured for Parked Filter Cleaning.
   - Position the machine outdoors
   - Stop machine motion
   - Set engine speed to low idle
   - Engage park brake
   - Disengage separator
   - Clear proximity sensor
   - Engine debris management system functional



N118440—UN—09MAR16

Check Mark

Once a condition has been met, a green check mark in box appears preceding the condition.



H113803—UN—09MAR16

Next

3. Once all conditions have been met, select NEXT on display.

NOTE: Exhaust Filter System controls the engine speed to increase exhaust temperature.



H113801—UN—04JAN17

Progress Indicator

Exhaust filter cleaning is shown by Progress Indicator.



H114770—UN—04JAN17

4. Select and a message appears on the screen that can be viewed in the Status Center on the display.

NOTE: Cleaning process continues when close button is selected.



H113816—UN—04JAN17

Status Center

To check status of the procedure, select Status Center to open Status Center page.



H118543—UN—04JAN17

Check Status

Select Check Status to view the cleaning process.



H113825—UN—04JAN17

Cleaning Complete

System informs you when exhaust filter cleaning is complete.



H114770—UN—04JAN17

Close

5. Select to return to the display.

If you are not returning the machine to service immediately after procedure, allow engine time to return to normal operating temperature before stopping engine. See Engine Cool Down In Progress.

NOTE: System defaults to AUTO mode when parked exhaust filter cleaning is complete.

SS43267,000089D-19-04JAN17

Disable AUTO Exhaust Filter Cleaning

Auto Exhaust Filter Cleaning can be disabled in certain conditions.

IMPORTANT: Disable the automatic exhaust filter cleaning system only when necessary.

Modify When:

- Indoors or under a roof unless a high temperature externally vented exhaust system is connected.
- There is not enough time available for the machine to complete a cleaning cycle before it is shut down.
- In high crop dust or chaff conditions.
- Next to a fueling area.



H113829—UN—04JAN17

Automatic

Procedure to Modify:

1. Select to open Exhaust Filter Cleaning.



H113848—UN—04JAN17

ON/OFF

2. Select to enable or disable Automatic Filter Cleaning.



H114770—UN—04JAN17

Close

3. Select to close Exhaust Filter Cleaning.

SS43267,000089E-19-04JAN17

Engine Cool Down In Progress

Engine Cool Down is a specific time period necessary to allow the engine and components to cool down.

IMPORTANT: Damage to exhaust cleaning components can occur if engine is turned OFF while performing exhaust filter cleaning or shortly after cleaning is complete. Alarm sounds and a warning message appears on display. Start machine and follow messages on display to allow components to cool.



H113811—UN—04JAN17

Exhaust Filter Cleaning Icon ON

Access Engine Cool Down In Progress:

1. Exhaust Filter Cleaning Icon illuminates on corner post display and Engine Cool Down In Progress alert opens showing the minutes left before the machine can be shut down.



H113812—UN—04JAN17

OK

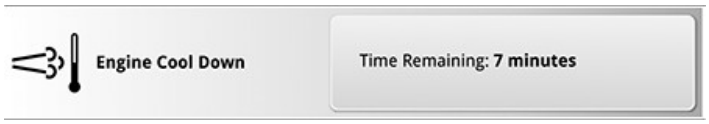
2. Select OK on Engine Cool Down In Progress alert.



H113817—UN—04JAN17

Status Center

3. Exhaust Filter Cleaning Icon illuminates in Status Center during Engine Cool Down In Progress.



H113818—UN—04JAN17

Status Center Display

4. Select Exhaust Filter Cleaning icon to view Engine Cool Down progress in the Status Center Display.



H113813—UN—04JAN17

Exhaust Filter Cleaning Icon OFF

5. When engine cool down time elapses, the Exhaust Filter Cleaning Icon is no longer illuminated.



H113812—UN—04JAN17

OK

IMPORTANT: If engine is shut off during Engine Cool Down, an alert displays on screen requiring the engine to be started.

6. Cool Down Complete message appears and tells you that the machine can be shut down. Select to close message.

SS43267,000089F-19-04JAN17

Debris Management Filter Capacity

An indicator that allows you to view the debris management filter capacity.



H114602—UN—04JAN17

Green Zone

- **Green Zone—** filter capacity is good.



H114603—UN—04JAN17

Yellow Zone

- **Yellow Zone—** little filter capacity is remaining. Remove and clean filter soon.

NOTE: A message appears on the screen that retriggers once per key cycle until filter is cleaned.



H114604—UN—04JAN17

Red Zone

- **Red Zone—** there is no filter capacity remaining. Remove and clean filter now.

NOTE: When indicator moves into the red zone, a Stop Alert DTC is triggered. Remove and clean the engine debris management filter.

SS43267,00008A0-19-04JAN17

Air Compressor

Air Compressor provides a supplemental compressed air source to clean the machine.

The air compressor will only function if the following requirements are met:

- Engine must be running.
- Machine must be in park.
- Separator must be disengaged.
- Header must be disengaged.
- Machine external components must not be in motion.



H113822—UN—04JAN17

Status Indicator

Procedure to Modify:

IMPORTANT: Drain moisture from the air tank daily. Refer to Operator's Manual for details.

IMPORTANT: Never clean engine air filters or debris management air filters while engine is running.

NOTE: Onboard Air Compressor is NOT recommended to inflate tires on the machine or run air tools.

Status Indicator— displays status of Air Compressor requirements.



H116670—UN—04JAN17

ON/OFF

Select to enable or disable Air Compressor.

NOTE: When the air compressor is active, the green status indicator pulses to remind you that certain machine functions such as separator, header, unloading auger and propulsion systems are reduced in functionality.

NOTE: When preconditions are not met, selecting the ON/OFF toggle button displays Air Compressor Status to help troubleshoot what is preventing the system from activating.

SS43267,00008A1-19-30JAN17

Air Compressor Status

Air Compressor Status shows the requirements needed to enable the air compressor system.



H116670—UN—04JAN17

ON/OFF

Select ON/OFF toggle button under Air Compressor to open Air Compressor Status page if all requirements are not met.

Items Displayed on Air Compressor Status Page:



H113824—UN—04JAN17

Gray

Not Ready— requirements not met.



H113824—UN—04JAN17

Gray

Ready— requirements met but not enabled.



H113822—UN—04JAN17

Green

Active— requirements met and system enabled.

Air Compressor Requirements:

- Engine must be running.
- Machine must be in park.
- Separator must be disengaged.
- Header must be disengaged.
- Machine external components must not be in motion.



H113826—UN—04JAN17

Alert Message

A message appears when a requirement is not met.



H113825—UN—04JAN17

Check Mark

Once a condition is met, a green check mark appears.



H114770—UN—04JAN17

Close

Select to close Air Compressor Status.

SS43267,00008A2-19-30JAN17

Access HVAC

Access application through display:



H113668—UN—22OCT15

Menu

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H114795—UN—04JAN17

HVAC

3. HVAC



H114794—UN—17MAR16

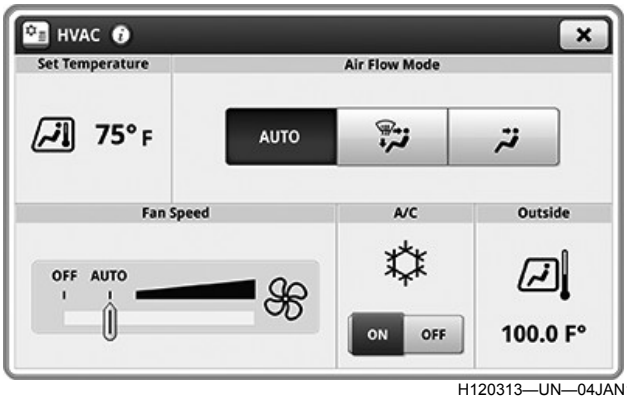
HVAC

Access application through navigation bar:

Press HVAC button on navigation bar below display.

SS43267,00008A3-19-31JAN17

Heating, Ventilation, and Air Conditioning (HVAC) Main Page



H120313—UN—04JAN17

HVAC

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

HVAC application is used to adjust temperature, fan speed, and air flow mode inside of cab and view outside temperature.



H119378—UN—15SEP16

Set Temperature

Items accessible on HVAC main page:

Set Temperature— set a desired temperature inside cab.



H114797—UN—17MAR16

Air Flow Mode

Air Flow Mode— adjust distribution of air flow inside cab.



H114801—UN—17MAR16

Fan Speed

Fan Speed— control fan speed inside cab.



H113850—UN—05MAY16

Air Conditioning

Air Conditioning (A/C)— enable or disable air conditioning.



H119377—UN—16SEP16

Outside

Outside— view current outside temperature.



H115024—UN—04JAN17

A/C

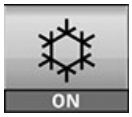
Run Page Modules

Modules for this application can be added to run pages using Layout Manager.

Example:

A/C— toggle gives you direct access to enable/disable the A/C.

NOTE: Different modules can be available for your application.



H116265—UN—04JAN17

A/C ON/OFF

Shortcut Keys

Shortcut keys for this application can be added to the shortcut bar using Layout Manager.

Example:

A/C ON and OFF— quick access to turn air conditioning on and off.

NOTE: Different shortcut keys may be available for your application.

SS43267,000080B-19-27JAN17

Set Temperature

Set Temperature allows you to set a desired temperature inside the cab.



H114796—UN—17MAR16

Set Temperature

Procedure to Modify:

1. Select Set Temperature value to modify cab temperature setting.



H114792—UN—04JAN17

Decrease

2. Select to decrease value.



H114791—UN—04JAN17

Increase

3. Select to increase value.



H114770—UN—04JAN17

Close

4. Select to close cab temperature setting.

Alternate Procedure to modify:

ClimaTrak™ Automatic Temperature Control—press temperature increase or decrease buttons on armrest to modify temperature.

SS43267,00008A4-19-27JAN17

Fan Speed

Fan Speed allows you to control fan speed inside the cab.



H114801—UN—17MAR16

Fan Speed

Procedure to Modify:

1. Select the screen area under Fan Speed to modify it.

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H114802—UN—17MAR16

Indicator

2. Indicator moves to selected fan speed, automatic mode, or off by selecting the minus (-) or plus (+) buttons.



H114998—UN—04JAN17

Decrease

   a. Select to decrease fan speed.



H114997—UN—04JAN17

Increase

   b. Select to increase fan speed.

   Fan will be turned OFF when indicator moves to OFF.

   Fan speed will be automatically regulated when indicator moves to AUTO.



H114770—UN—04JAN17

Close

3. Select to close fan speed setting.

NOTE: In AUTO mode, as temperature approaches setpoint, fan speed decreases.

Alternate Procedure to modify:

ClimaTrak™ Automatic Temperature Control—press fan speed increase or decrease buttons on armrest to modify fan speed.

SS43267,00008A5-19-27JAN17

Air Flow Mode

Air Flow Mode allows you to adjust distribution of air flow inside the cab or enable windshield defrost.



H114797—UN—17MAR16

Air Flow Modes

Procedure to Modify:

Select desired air flow mode on toggle bar.



H114798—UN—17MAR16

Automatic

Automatic— automatically distributes and redirects air flow based on actual temperature and desired temperature in the cab.



H114799—UN—17MAR16

Defrost, Operator, and Floor

Defrost, Operator, and Floor— distribute air flow evenly throughout cab and defrost windshield.

NOTE: Air conditioning turns ON when Defrost air flow mode is selected.



H114800—UN—17MAR16

Operator

Operator— direct air flow at you.

Alternate Procedure to modify:

ClimaTrak™ Automatic Temperature Control— press air flow mode button on armrest to toggle between modes.

SS43267,00008A6-19-27JAN17

Air Conditioning (A/C)

Air Conditioning allows you to enable or disable air conditioning.

NOTE: Air conditioning turns ON when defrost air flow mode is selected.



H114790—UN—04JAN17

ON/OFF

Procedure to Modify:

Select to enable or disable Air Conditioning.

SS43267,00008A7-19-17MAY17

Outside Temperature

Outside allows you to view the current outside temperature.

ClimaTrak is a trademark of Deere & Company



H119377—UN—16SEP16

Outside

Procedure to Modify:

Select screen area under Outside to open a larger display of current outside temperature.



H114770—UN—04JAN17

Close

Select to close Outside temperature.

SS43267,00008A8-19-27JAN17

Transmission

Access Transmission



H113668—UN—22OCT15

Menu

Access application through display:

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



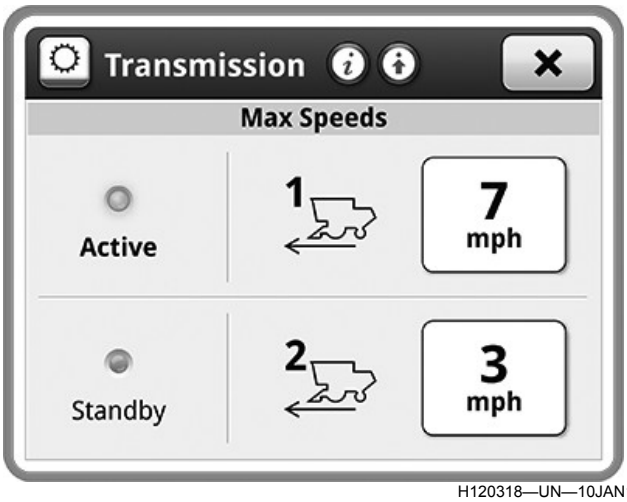
H113843—UN—30OCT15

Transmission

3. Transmission

SS43267,00008C9-19-27JAN17

Transmission Main Page



H120318—UN—10JAN17

Transmission

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Transmission application is used to display transmission information and adjust settings.

Select Transmission

ProDrive™

Push-Button Shift Transmission



N118020—UN—22OCT15

Orange

Items accessible on ProDrive™ Transmission main page:

Status indicator—shows you which Max Speed mode is active and which mode is in standby.

Active



N118019—UN—22OCT15

Gray

Standby



H114766—UN—22OCT15

Max Speed 1

Max Speed 1— maximum speed when max speed 1 is active. Select input box to adjust setting.



H114767—UN—22OCT15

Max Speed 2

Max Speed 2— maximum speed when max speed 2 is active. Select input box to adjust setting.

ProDrive is a trademark of Deere & Company



N118004—UN—22OCT15

Advanced Settings

Advanced Settings— allows you to access further adjustments and less common settings.



H114765—UN—22OCT15

Current Gear

Items accessible on Push-Button Shift Transmission main page:

Current Gear— shows you the current gear that is selected.

Press Push-Button Shift Transmission buttons to change the current gear.



N118004—UN—22OCT15

Advanced Settings

Advanced Settings— allows you to access further adjustments and less common settings.

SS43267,000080C-19-27JAN17

Max Speed 1 and 2



H114768—UN—10JAN17

Value

Max Speeds allows you to set a comfortable harvest or transport speed. When desired ground speed is set and multi-function lever is moved fully forward with the engine at high idle, machine operates no faster than the setpoint for the selected mode. Two modes are available.

NOTE: Max Speed 1 cannot be set higher than current maximum speed set in Max Speed 2.

NOTE: Greater maximum setpoints mean more aggressive machine movements. It is always best to use low range with a low maximum setpoint when doing precision movements (hooking up header).

- Example 1: Attaching header to machine and harvesting desired crop. Max Speed 1 set to 1.6 km/h (1 mph). Max Speed 2 set to 11.3 km/h (7 mph).
- Example 2: Waterway approaches and harvesting desired crop. Max Speed 1 set to 4.8 km/h (3 mph). Max Speed 2 set to 11.3 km/h (7 mph).

Select plus (+) button to increase value.

Select minus (-) button to decrease value.

NOTE: As you switch between speed settings using the ProDrive™ Mode buttons on the armrest, a message appears on-screen reminding you of the speed settings currently active. The message can be viewed in the Status Center on the display.

SS43267,00008CA-19-27JAN17

Advanced Settings ProDrive™

Items accessible on Advanced Settings page:

Limp Home Mode— enable to move a machine with a power train sensor fault to a safe location or to be serviced.

Tow Mode— must be enabled to tow the machine.

SS43267,00008CB-19-31JAN17

Advanced Settings ProDrive™ Tow Mode

You can enable Tow Mode to protect transmission if machine is disabled and requires towing.

CAUTION: Do not tow machine with wire rope. If rope breaks, the whipping action could cause bodily injury.

Do not remove couplers. When couplers are removed, brakes are disabled.

Avoid electrical line entanglement. Grain extensions or grain tank covers must be lowered and radio antenna lowered before transporting.

ProDrive is a trademark of Deere & Company

Check local governmental regulations regarding driving or towing equipment on public roads. Use auxiliary lights and devices available from your John Deere dealer to warn other roadway users.

Avoid crushing injuries from runaway machine. If machine is on a slope, do not disengage park brake until wheels are blocked.

Machine can be towed for emergency situations up to 10 min at maximum speed of 10 km/h (6.2 mph).

Tow Mode procedure requirements:

Engine State	Running
Wheel Speed	0 km/h (0 mph)
Operator	In Seat



H114769—UN—22OCT15

ON/OFF

Procedure to modify:

To tow machine, proceed as follows:

1. Start engine.
2. Empty grain tank and remove header.
3. Swing unloading auger back.
4. Fold grain tank extensions or grain tank covers.
5. Swing ladder forward and fold down radio antenna.

NOTE: Always tow machine in a forward direction by attaching a chain around main axle. Be certain chain does not damage any hydraulic lines. Have driver in operator's seat to steer machine.

6. Turn warning lights ON, unless prohibited by law.

NOTE: Engine must be running to turn off park brake and tow machine. If engine is inoperable, see your John Deere dealer or other qualified service provider for further information.

7. Select ON/OFF toggle button to enable Tow Mode.



H114772—UN—22OCT15

Message

8. If requirements for tow mode were not met, a message appears displaying which requirements are not met.



H114770—UN—04JAN17

Close

9. If you need to exit tow mode for any reason you can do so by selecting close button.



H114771—UN—22OCT15

Green Checkmark

10. Once a requirement is met, a green checkmark appears preceding the requirement.



H114769—UN—22OCT15

ON/OFF

11. Once all requirements are met, you can select ON/OFF toggle button to activate Tow Mode.

CAUTION: Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use hand signals or turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that are damaged or lost.

12. Press park button on armrest to release brakes before towing machine.

NOTE: Operator must remain in seat for park to be disengaged.

Tow mode is disabled and a message appears on screen that can be viewed in the Status Center if you:

- Shift transmission into gear.

SS43267,00008CC-19-09JAN17

Advanced Settings ProDrive™ Limp Home Mode



H114769—UN—22OCT15

ON/OFF

You can enable Limp Home Mode to move a machine to a safe location that is brought to a stop due to a power train sensor fault at a derated speed.

NOTE: Allows machine to operate up to 4 hours. Not to be used for normal operation.

Select ON/OFF toggle button to enable Limp Home Mode.

If there is a power train sensor fault Limp Home Mode enables and a message appears.

NOTE: Limp Home Mode will automatically disable on machine key cycle.

If no power train sensor fault was detected, Limp Home Mode is not enabled and a message appears.

SS43267,00008CD-19-17MAY17

Advanced Settings Push Button

Items accessible on Advanced Settings page:

Tow Mode— must be enabled to tow the machine.

SS43267,00008CE-19-09JAN17

Lights

Access Lights



H113668—UN—22OCT15

Menu

Access Application Through Display:

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



H115006—UN—09JAN17

Lights

3. Lights



H115005—UN—11MAR16

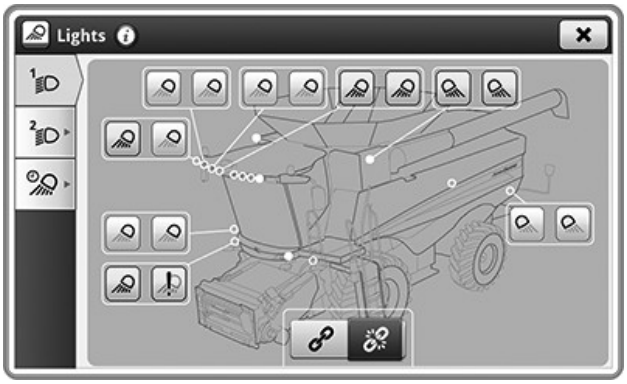
Lights

Access Application Through Navigation Bar:

Press Lights button on navigation bar below display.

SS43267,00008C2-19-17MAY17

Lights Main Page



H120316—UN—09JAN17

Lights

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

Lights application is used to access light presets that can be configured by the operator. Selecting one of the tab presets will allow you to make adjustments.

NOTE: Field lights are configurable. Road lights are not configurable.



H114593—UN—11MAR16

Field Light Preset 1—Low Beam

Tabs available in Lights application:

Field Lights Preset 1—Low Beam— lights that will illuminate in Preset 1—Low Beam mode.



H114596—UN—11MAR16

Field Lights Preset 2—Low Beam

Field Lights Preset 2—Low Beam— lights that will illuminate in Preset 2—Low Beam mode.



H114594—UN—11MAR16

Field Lights Preset 1—High Beam

Field Lights Preset 1—High Beam— lights that will illuminate in Preset 1—High Beam mode.



H114595—UN—11MAR16

Field Lights Preset 2—High Beam

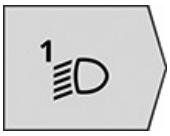
Field Lights Preset 2—High Beam— lights that will illuminate in Preset 2—High Beam mode.



H114587—UN—11MAR16

Exit Lights

Exit Lights— select duration and lights which will remain illuminated after key switch is turned to OFF position.



H114597—UN—11MAR16

Highlighted Tab

Highlighted tabs— indicate which light preset is selected.

Field Lights Controls— provide you with controls to select field lights on/off, high/low beams, and preset mode 1 or 2.



H113862—UN—11MAR16

Light With Fault

Light with Fault— exclamation point indicates light is in error. Example, light bulb is burnt out.

SS43267,000080D-19-27JAN17

Field Lights Preset 1—Low Beam

Customize Preset 1-Low Beam mode lights for specific customer needs. Modify when needing customized lighting in low visibility such as during unloading or harvesting operations.



H114593—UN—11MAR16

Field Lights Preset 1—Low Beam

Procedure to Modify:

1. Select to allow customization of each individual light in this mode.



H113857—UN—11MAR16

Linked

- Select Link on toggle button to link paired left-hand and right-hand lights for simultaneous ON and OFF operation on all tabs.



H113858—UN—11MAR16

Unlinked

- Select Unlink on toggle button to allow paired left-hand and right-hand lights individual ON and OFF operation on all tabs.



H114591—UN—11MAR16

Light Button



H113853—UN—11MAR16

Light Pair Button

2. Select light or light pair button for lights you want illuminated.



H114592—UN—11MAR16

Highlighted Button

NOTE: Button becomes highlighted when selected.

SS43267,00008C3-19-17MAY17

Field Lights Preset 2—Low Beam

Customize Preset 2-Low Beam mode lights for specific customer needs. Modify when needing customized lighting in low visibility such as during unloading or harvesting operations.



H114596—UN—11MAR16

Field Lights Preset 2—Low Beam

Procedure to Modify:

1. Select to allow customization of each individual light in this mode.



H113857—UN—11MAR16

Linked

- Select Link on toggle button to link paired left-hand and right-hand lights for simultaneous ON and OFF operation on all tabs.



H113858—UN—11MAR16

Unlinked

- Select Unlink on toggle button to allow paired left-hand and right-hand lights individual ON and OFF operation on all tabs.


H114591—UN—11MAR16
Light Button


H113853—UN—11MAR16
Light Pair Button

2. Select light or light pair button for lights you want illuminated.


H114592—UN—11MAR16
Highlighted Button

NOTE: Button becomes highlighted when selected.

SS43267,00008C4-19-17MAY17

Field Lights Preset 1—High Beam

Customize Preset 1-High Beam mode lights for specific customer needs. Modify when needing customized lighting in low visibility such as during unloading or harvesting operations.


H114594—UN—11MAR16
Field Lights Preset 1—High Beam

Procedure to Modify:

1. Select to allow customization of each individual light in this mode.


H113857—UN—11MAR16
Linked

- Select Link on toggle button to link paired left-hand and right-hand lights for simultaneous ON and OFF operation on all tabs.


H113858—UN—11MAR16
Unlinked

- Select Unlink on toggle button to allow paired left-hand and right-hand lights individual ON and OFF operation on all tabs.


H114591—UN—11MAR16
Light Button


H113853—UN—11MAR16
Light Pair Button

2. Select light or light pair button for lights you want illuminated.


H114592—UN—11MAR16
Highlighted Button

NOTE: Button becomes highlighted when selected.

SS43267,00008C5-19-17MAY17

Field Lights Preset 2—High Beam

Customize Preset 2-High Beam mode lights for specific customer needs. Modify when needing customized lighting in low visibility such as during unloading or harvesting operations.


H114595—UN—11MAR16
Field Lights Preset 2—High Beam

Procedure to Modify:

1. Select to allow customization of each individual light in this mode.


H113857—UN—11MAR16
Linked

- Select Link on toggle button to link paired left-hand and right-hand lights for simultaneous ON and OFF operation on all tabs.


H113858—UN—11MAR16
Unlinked

- Select Unlink on toggle button to allow paired left-hand and right-hand lights individual ON and OFF operation on all tabs.


H114591—UN—11MAR16
Light Button


H113853—UN—11MAR16
Light Pair Button

2. Select light or light pair button for lights you want illuminated.



H114592—UN—11MAR16

Highlighted Button

NOTE: Button becomes highlighted when selected.

SS43267,00008C6-19-17MAY17

Exit Lights

Exit Lights allows you to select duration and lights which will remain illuminated after key switch is turned to OFF position.

NOTE: Exit lights turn on if road or field lights were used in the last 5 min.



H114587—UN—11MAR16

Exit Lights

Procedure to Modify:

1. Select to allow customization of each individual light in this mode.



H113857—UN—11MAR16

Linked

- Select Link on toggle button to link paired left-hand and right-hand lights for simultaneous ON and OFF operation on all tabs.



H113858—UN—11MAR16

Unlinked

- Select Unlink on toggle button to allow paired left-hand and right-hand lights individual ON and OFF operation on all tabs.



H114591—UN—11MAR16

Light Button



H113853—UN—11MAR16

Light Pair Button

2. Select light or light pair button for lights you want illuminated.



H114592—UN—11MAR16

Highlighted Button

NOTE: Button becomes highlighted when selected.



H114588—UN—11MAR16

Exit Timeout

3. Select to open Exit Timeout screen.
4. Select desired Exit Timeout Setting.

Exit Timeout Values		
Instant-off (0 s)	60 s	3 min
10 s	90 s	4 min
30 s	2 min	5 min



H114606—UN—09JAN17

OK



H114605—UN—09JAN17

Cancel

5. Select OK to save or Cancel to revert to previous setting.

SS43267,00008C7-19-17MAY17

Field Light Controls

Field lights controls allows you to select the desired field light preset and mode.



H115019—UN—09JAN17

Field Light Position

Procedure to Modify:

1. Turn steering column selector knob to field light position.
2. Select desired high beam or low beam mode.
   - Push lever to select high beam mode.
   - Pull lever to select low beam mode.



H115018—UN—11MAR16

Armrest Light Toggle

3. Press armrest light toggle to select field lights preset 1 or field lights preset 2.

NOTE: LED will illuminate for selected preset mode 1 or 2.

- ***Momentary High Beam:*** *pull and hold lever to upper position to momentarily activate high beam mode.*
- ***Low Beam Position:*** *pull lever to middle position to operate low beams.*
- ***High Beam Position:*** *push lever to lower position to operate high beams.*

SS43267,00008C8-19-17MAY17

Pair Bluetooth® Device to Generation 4 CommandCenter™



N119224—UN—24JUL15
Phone Shortcut Button on Navigation Bar



RXA0147930—UN—13APR15
Menu → Machine Settings Tab → Phone Icon



RXA0132157—UN—28JUN13
Pair Device Page



RXA0137741—UN—13DEC13
Pairing Code Page

A—Pair Device Button
B—Pairing Code Box

Radio system is equipped with integrated Bluetooth®, which allows data transfer between the radio system and a paired close-range Bluetooth® device such as a cell phone.

NOTE: Enable Bluetooth® mode on the device before trying to pair device to radio. Not ALL devices are able to use Bluetooth® feature on the radio.

NOTE: Once Bluetooth® pairing process has been initiated, changes to the radio (ex: changing source or frequency) causes pairing to cancel.

To access the phone main page, use Phone Shortcut Button on Navigation Bar or follow alternative path:

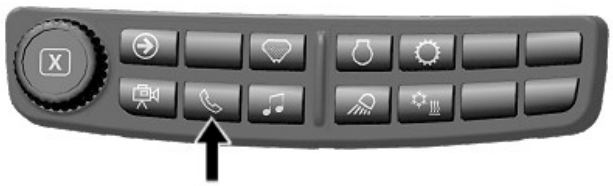
1. Select **Menu.**
2. Select **Machine Settings tab.**
3. Select **Phone icon.**
4. Enable Bluetooth® mode on device.
5. Select Pair Device button (A) to start pairing process.
6. Enter pairing code displayed in Pairing Code box (B) into device. Pairing process begins immediately.

Once device is connected successfully, **"Pairing Complete"** is displayed. Up to five device pairings can be stored in the radio's Bluetooth® feature. To learn about managing stored devices, see Manage Bluetooth® Devices in this section of this Operator's Manual.

Phone book does not appear on CommandCenter™ display.

CS12167,0000896-19-16AUG16

Manage Paired Bluetooth® Devices (If Equipped)



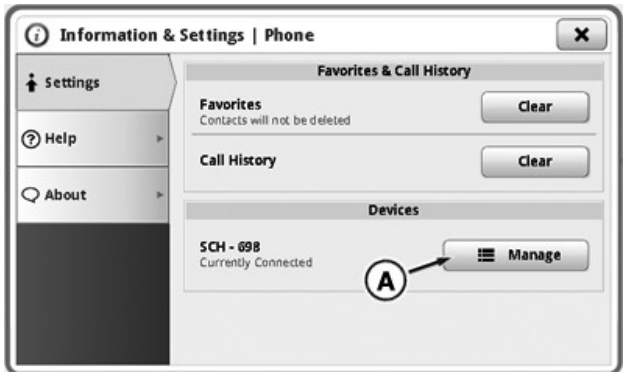
N119224—UN—24JUL15
Phone Shortcut Button on Navigation Bar

Bluetooth is a trademark of Bluetooth SIG
CommandCenter is a trademark of Deere & Company



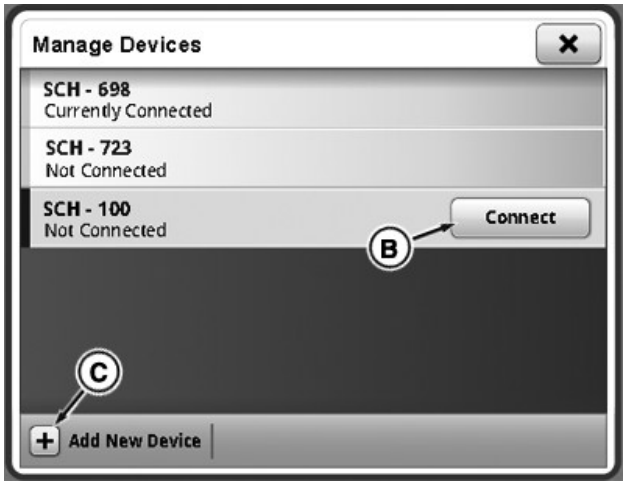
RXA0147944—UN—13APR15

Advanced Settings Icon → Settings Tab



RXA0147734—UN—30MAR15

Phone Information & Settings Page



RXA0147733—UN—30MAR15

Manage Devices Page

A—Manage Devices Button
B—Connect Device Button
C—Add New Device Button

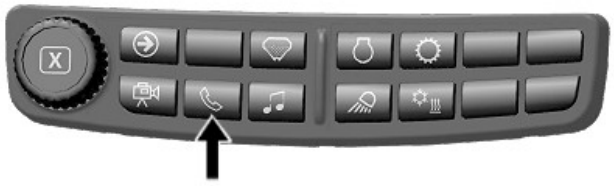
Use phone advanced settings to connect devices paired to the radio or add new devices to paired list.

1. Select **Phone Shortcut button on Navigation Bar.**
2. Select **Advanced Settings icon.**
3. Select **Settings tab.**
4. Select Manage Devices button (A).
5. Choose the desired device from the list of paired devices and select Connect Device button (B).
6. Select Add New Device button (C) to pair a new Bluetooth® device.

Up to five device pairings can be stored in the radio's Bluetooth® feature. To learn more about pairing devices, see Pair Bluetooth® Device to Generation 4 CommandCenter™ in this section of this Operator's Manual.

CS12167,0000897-19-16AUG16

Phone Operation



N119224—UN—24JUL15

Phone Shortcut Button on Navigation Bar



RXA0147930—UN—13APR15

Menu → Machine Settings Tab → Phone Icon

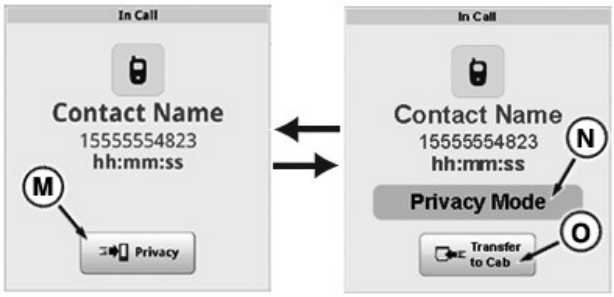


RXA0137742—UN—11DEC13

Phone Home Page

Bluetooth is a trademark of Bluetooth SIG

CommandCenter is a trademark of Deere & Company



RXA0147774—UN—30MAR15

Privacy Mode

Use Bluetooth® capability to make or receive phone calls from a paired Bluetooth® enabled cell phone. For more information on how to pair a Bluetooth® enabled device, see Pair Bluetooth® Device—Generation 4 CommandCenter™ in this section of this Operator's Manual.

Press Phone Shortcut button on Navigation Bar or follow alternative path:

1. Select **Menu.**
2. Select **Machine Settings tab.**
3. Select **Phone icon.**

NOTE: Phone options A, B, C, and E are not available during a call. Use a cell phone if another number is needed.

Phone controls on this page are disabled while device is syncing with radio.

A—Input Box: Displays typed digits.

B—Backspace Button: Cancel a typed digit. Press and hold to cancel multiple digits.

C—Dial Pad: Enter phone number using number buttons.

D—Dial Pad Tab: Press to display dial pad during phone call.

NOTE: Favorites are stored permanently and can be viewed by any operator. Clear favorites before leaving the machine, if necessary. For more information, see Clear Favorites and Call History in this section of this Operator's Manual.

E—Favorites Button: View/edit favorites contacts.

F—Recent Button: Review previous missed calls, incoming calls, or outgoing calls.

G—Volume Control: Adjusts volume.

H—Mute Button: Mutes microphone.

Bluetooth is a trademark of Bluetooth SIG
CommandCenter is a trademark of Deere & Company

I—Battery Icon: Displays battery life.

J—Signal Icon: Displays current phone signal strength.

K—Bluetooth® Icon: If blue, the Bluetooth® device is connected. If grayed out, the Bluetooth® device is not connected.

L—Call Button: After dialing or selecting a number, press to begin call.

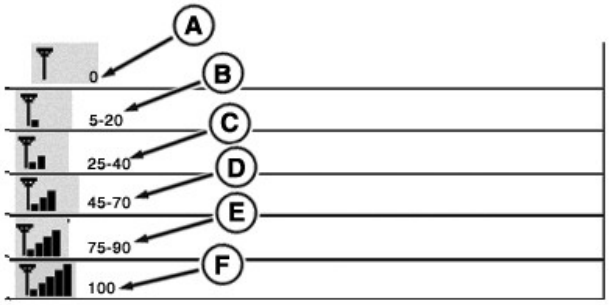
M—Privacy Mode Button: Transfers the phone audio from the cab speakers to phone speakers during call.

N—Privacy Mode Message: Displays when call has entered privacy mode.

O—Transfer to Cab Button: Exits privacy mode and transfers phone audio from the phone speakers to cab speakers.

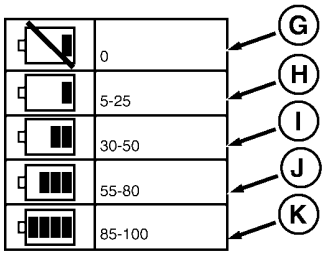
CS12167,0000898-19-16AUG16

Phone Signal Strength and Battery Charge



RXA0121552—UN—31OCT11

Signal Strength Display



RXA0121554—UN—31OCT11

Battery Charge Displays

A—No Signal
B—5-20 Percent Signal Strength
C—25-40 Percent Signal Strength
D—45-70 Percent Signal Strength
E—75-90 Percent Signal Strength
F—100 Percent Signal Strength
G—No Battery Charge
H—5-25 Percent Battery Charge
I—30-50 Percent Battery Charge
J—55-80 Percent Battery Charge

K—85-100 Percent Battery Charge

Cell phone signal strength is represented by phone signal strength bars (A-F). Signal strength ranges from no signal (A) to 100 percent signal strength (F).

Cell phone battery charge is represented by phone battery charge bars (G-K). Battery charge ranges from no battery charge (G) to 85-100 percent battery charge (K)

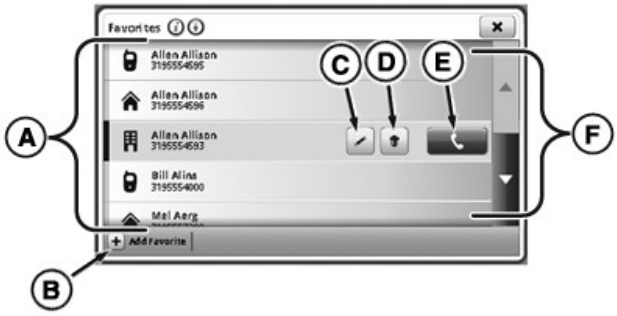
KT81203,0000213-19-08APR15

Contact List



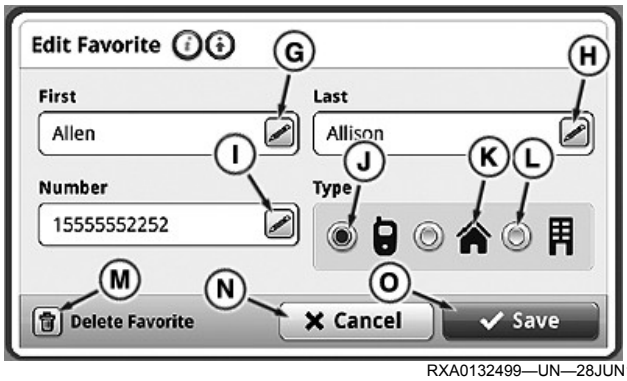
RXA0147931—UN—13APR15

Menu → Machine Settings Tab → Phone Icon → Favorites Button



RXA0132498—UN—28JUN13

Phone Favorites Page



RXA0132499—UN—28JUN13

Edit Favorite Page

1. Select **Menu.**
2. Select **Machine Settings tab.**
3. Select **Phone icon.**
4. Select **Favorites button.**

NOTE: Device's phone book synchronizes with the radio, not CommandCenter™. Contacts must be added and edited manually on the display.

Maximum number of phone numbers that can be stored in the CommandCenter™ is 25. Maximum number of characters in a phone number is 21.

NOTE: Favorites are stored permanently and can be viewed by any operator. Clear favorites before leaving the machine, if necessary. For more information, see Clear Favorites and Call History in this section of this Operator's Manual.

A—Favorite List: List of available contacts.

B—Add Favorite Button: Select to add contact manually

C—Edit Favorite Button: Select to edit current contact.

D—Delete Button: Select to delete contact from favorites.

E—Call Button: Select to call currently selected contact.

F—Scroll Bar: Select to scroll up or down.

G—Edit Favorite First Name: Select to edit first name.

H—Edit Favorite Last Name: Select to edit last name.

I—Edit Favorite Phone Number: Select to edit phone number.

J—Mobile Phone Button: Select to list contact information under mobile phone.

K—Home Phone Button: Select to list contact information under home phone.

L—Work Phone Button: Select to list contact information under work phone.

M—Delete Favorite Button: Select to delete contact.

N—Cancel Button: Select to cancel edits.

O—Save Button: Select to save edits.

CS12167,0000899-19-16AUG16

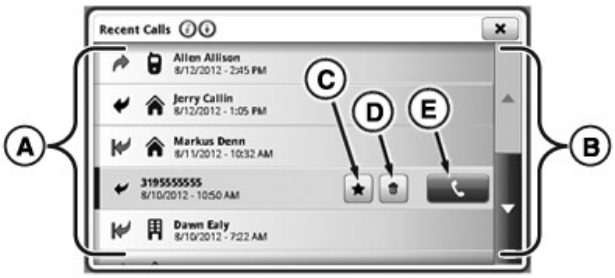
Recent Calls



RXA0147933—UN—13APR15

Menu → Machine Settings Tab → Phone Icon → Recent Button

CommandCenter is a trademark of Deere & Company



RXA0132556—UN—28JUN13

Recent Calls Page

Review previously missed, incoming, or outgoing calls placed or received through CommandCenter™.

1. Select **Menu.**
2. Select **Machine Settings tab.**
3. Select **Phone icon.**
4. Select **Recent button.**

A—Recent Calls Contact List: List of recently called contacts.

B—Scroll Bars: Use to scroll up or down through recent calls contact list.

C—Add Favorite Button: Select to add contact to favorites.

D—Delete Button: Select to delete contact from favorites.

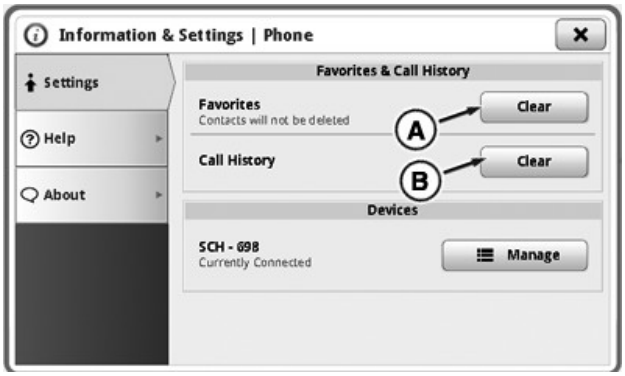
E—Call Button: Select to call currently selected contact.

CS12167,000089A-19-16AUG16



RXA0147944—UN—13APR15

Advanced Settings Icon → Settings Tab



RXA0147732—UN—30MAR15

Phone Information & Settings Page

A—Clear Favorites Button
B—Clear Call History Button

Use phone advanced settings to clear favorites and call history. Contacts will be cleared on CommandCenter™ display only, not on phone.

1. Select **Phone Shortcut button on Navigation Bar.**
2. Select **Advanced Settings icon.**
3. Select **Settings tab.**
4. Press clear favorites button (A) to erase favorites. Phone contacts will not be deleted.
5. Press clear call history button (B) to erase call history.

CS12167,000089B-19-18APR16

Clear Favorites and Call History



N119224—UN—24JUL15

Phone Shortcut Button on Navigation Bar

CommandCenter is a trademark of Deere & Company

Access Calibrations and Procedures

Access Application Through Display:



H113668—UN—22OCT15

Menu

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



N119098—UN—25MAY16

Calibrations and Procedures

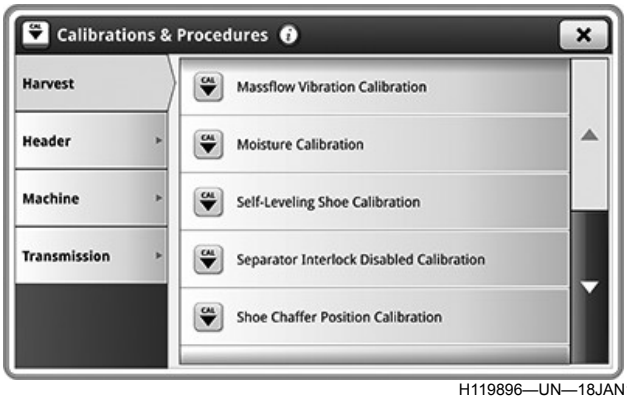
3. Calibrations & Procedures

SS43267,000084C-19-17JAN17

Calibrations and Procedures Overview

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.



H119896—UN—18JAN17

Calibrations and Procedures

Calibrations and Procedures application provides centralized access to maintenance procedures and calibrations for the machine.



H119225—UN—23SEP16

Harvest Tab

Harvest Tab

Mass Flow Vibration

Moisture Sensor Temperature

Threshing Clearance (Hydraulic)

Yield

ActiveYield™

Chassis Tilt

Threshing Clearance (STS Electric)

Unloading Auger Engage

Amber Flasher

Concave Air Removal

Concave Leveling



H119226—UN—23SEP16

Header Tab

Header Tab

Deck Plate Spacing

Feeder House Speed

Header

600x Header Self-Test

Feeder House Lateral Tilt Speed

Wings (Folding Corn Head)

Reel and Cutterbar Position

Reel Position

Feeder House Tilt Fore/Aft Range

Feeder House Lateral Tilt Range

SS43267,0000A3A-19-21JUN17

Mass Flow Vibration

This procedure calibrates the mass flow sensor to accommodate for normal vibration of machinery while in operation. Performing this calibration prevents the mass flow sensor from falsely reading vibration as material being harvested.

NOTE: Mass Flow Vibration calibration must be performed when changing headers and in every crop that is harvested.

Perform Calibration When:

- Control unit AYM or associated components are replaced/adjusted.
- Equipment configuration such as a Header has changed.
- Crop type being harvested has changed.
- Mass Flow Sensor has been replaced.

Items Accessible on Mass Flow Vibration Calibration Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	See “Perform Calibration When” section for more information.
Estimated Time Required	Approximately 1 min

SS43267,000084D-19-19MAY17

Mass Flow Vibration Calibration Procedure

Procedure Requirements:

Engine State	Running
Operating State	Parked on a level surface



N120226—UN—23FEB16

Begin Calibration

Procedure Overview:

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000867-19-19JAN17

Moisture Sensor Temperature

This calibration allows adjustment of the temperature sensor that is part of the moisture sensor system to match the actual temperature. Moisture sensor temperature must be calibrated to provide accurate sensor readings.

NOTE: Calibrate before harvesting begins when the moisture sensor is empty.

Perform Calibration When:

- Control unit AYM or associated components are replaced or adjusted.
- Moisture sensor readings are not accurate.
- Moisture Temperature Sensor has been replaced.

Items Accessible on Moisture Sensor Temperature Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Display on Page:

Last Calibration	Date and Time
Recommended Interval	See “Perform Calibration When” section for more information.
Estimate Time Required	Approximately 2 min



H119222—UN—18JAN17

Current Offset

Readings Displayed on Page:

Current Offset—current offset reading for moisture sensor.

SS43267,000084F-19-19MAY17

Moisture Sensor Temperature Offset

Procedure Requirements:

Engine State	Running
Operating State	Parked on a level surface

Procedure to Perform:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.



H119223—UN—18JAN17

Sensor Temperature

2. Select Sensor Temperature.



H119224—UN—18JAN17

Sensor Temperature

3. Select plus (+) to increase or minus (-) to decrease Sensor Temperature.



N118093—UN—16FEB16

Save

4. Confirm Calibration by selecting Save.



N118094—UN—18JAN17

Cancel

5. Select Cancel to return to previous page.

SS43267,0000868-19-18JAN17

Threshing Clearance (STS Electric)

This procedure calibrates Threshing Clearance by identifying the fully opened and closed positions of the concaves. A properly calibrated Threshing Clearance provides the best results for the harvest setting recommendation. See your Operator's Manual for more details.

IMPORTANT: Calibration should not be completed with round bar concave covers installed. An incorrect zero position results.

Perform Calibration When:

- Before each harvest season.
- Physical concave opening does not match what is being displayed in the cab.
- Concaves are replaced with a new or different set of concaves.
- Threshing clearance sensor, or associated components are replaced/adjusted.

Items Accessible on Threshing Clearance Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 1-2 min

SS43267,0000850-19-02MAR18

Threshing Clearance (STS Electric) Calibration Procedure

Procedure Requirements:

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.

2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000869-19-02MAR18

Yield Calibration

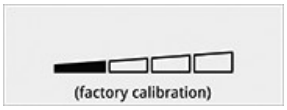
This procedure calibrates the estimated yield. Calibration is done by matching recorded samples with corresponding scale weight measurements.

NOTE: Yield Calibration must be performed every year and in every crop that is harvested to achieve accurate grain weight measurements. Also, verify that Mass Flow Vibration Calibration has been performed for each crop.

Perform Calibration When:

- Control unit AYM or associated components are replaced/adjusted.
- Yield totals do not match scale tickets.
- Highest accuracy of yield totals desired.

Items Accessible on Yield Calibration Page:



H119365—UN—18JAN17

Calibration Quality

Calibration Quality—indicates the quality of the calibration samples.



H119417—UN—18JAN17

Status

Status Indicator—indicates the status of sample recording.



H119235—UN—18JAN17

Record

Record—collect sample data.



H119363—UN—18JAN17

Unmatched Samples

Unmatched Samples—number of samples not matched to an actual weight.



H119364—UN—18JAN17

Match Scale Weight

Match Scale Weight—match recorded sample weight to actual weight of sample.



N118004—UN—22OCT15

Advanced Settings

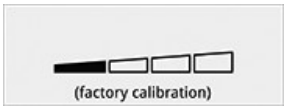
Advanced Settings—access further adjustments and less common settings.

NOTE: If Mass Flow Vibration Calibration is not current, then it is recommended to perform that calibration before performing Yield Calibration.

SS43267,0000851-19-22MAY17

Yield | Calibration Quality

Calibration Quality indicates the quality of the calibration samples and the margin of error between the recorded samples and actual weights.



H119365—UN—18JAN17

Calibration Quality

Items Accessible on Calibration Quality Page:

Calibration Quality Indicator—indicates the quality of the calibration samples.



H119374—UN—18JAN17

Collected Samples

Collected Sample Status—indicates the criteria met by the current set of samples.



H119372—UN—18JAN17

Yield Margin of Error

Yield Margin of Error—difference between recorded sample weight and actual weight expressed as a percentage. Colored backgrounds indicate the quality of the margin.



H119375—UN—18JAN17

Calibration Mode

Calibration Mode—current sample selection mode.



H119373—UN—18JAN17

Samples in Calibration

Samples in Calibration—number of samples stored. If no samples are stored, the factory calibration is used.



N118004—UN—22OCT15

Advanced Settings

Advanced Settings—access further adjustments and less common settings.

SS43267,000086F-19-17JAN17

Yield | Status Indicator

Status Indicator displays the status of Record Samples and a message about that status.

Status options are as follows:



H119424—UN—18JAN17

Progress Indicator

Progress Indicator—displays when a sample is being recorded.



N118420—UN—02NOV16

Green

Active—sample recording is active.



N118019—UN—22OCT15

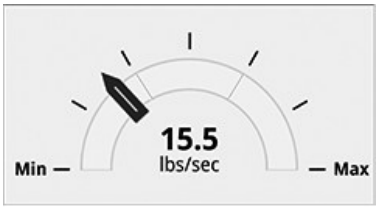
Gray

Inactive—sample recording is not active.

SS43267,0000870-19-18JAN17

Yield | Record Sample

Record Sample page allows you to collect a yield sample, monitor flow rate, and view the recorded weight of the sample.

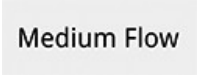


H119379—UN—18JAN17

Mass Flow Rate

Items Accessible on Record Sample Page:

Mass Flow Rate—indicates the flow of crop being harvested.



H119418—UN—18JAN17

Medium Flow

Flow Rate Range—indicates the current range that the sample is being harvested in.

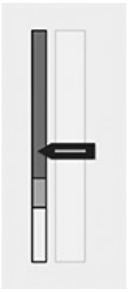
NOTE: Low flow rate is displayed using dashes.



H119380—UN—18JAN17

Weight

Weight—calculated weight of the sample.



H119399—UN—18JAN17

Weight Status

Weight Status—indicates when enough crop has been harvested to perform the calibration.



H119419—UN—18JAN17

Crop Type: Corn

Crop Type—crop being harvested.



H119400—UN—18JAN17

Recording Sample

Recording Status—displays status of sample recording.



H119401—UN—18JAN17

Delete

Delete—deletes the current sample data.



H119421—UN—18JAN17

Start

Start—begins recording sample data.



H119420—UN—18JAN17

Done

Done—stops sample recording and stores the information.



H119235—UN—18JAN17

Record

Procedure to Modify:

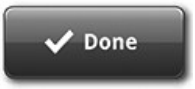
1. Select Record.
2. Begin harvesting crop.



H119421—UN—18JAN17

Start

3. Select Start button.
4. Adjust ground speed until desired flow rate range is obtained.
5. Continue harvesting until the necessary amount of crop is harvested.



H119420—UN—18JAN17

Done

6. Select Done button to store the sample information.

SS43267,0000871-19-17JAN17

Yield | Match Scale Weight

Match Scale Weight allows you to match recorded sample weight to the actual weight of sample.



H119407—UN—18JAN17

Sample

Procedure to Modify:

1. Select sample to match.

2. Enter the actual sample weight using the keypad.



N118093—UN—16FEB16

Save

3. Select Save button to confirm.



H119407—UN—18JAN17

Sample

1. Select sample to delete.



H119408—UN—18JAN17

Delete Sample

2. Select Delete Sample.



H114654—UN—05JAN17

OK

3. Select OK button.



N118094—UN—18JAN17

Cancel

NOTE: Select Cancel button to return to the previous page without making any changes.

SS43267,0000872-19-19JAN17

Yield | Advanced Settings

Advanced Settings allows you to access further adjustments and less common settings.

NOTE: Advanced Settings is not available when ActiveYield™ is selected.

Modify When:

- Resetting to the factory defaults.
- Manually selecting samples.
- Manually adjusting the calibration value.
- Transferring the calibration to another machine.

Items Accessible on Advanced Settings Page:

ActiveYield is a trademark of Deere & Company



N118094—UN—18JAN17

Cancel

NOTE: Select Cancel button to return to the previous page without making any changes.

Procedure to Delete a Sample:



H119409—UN—18JAN17

Reset

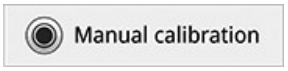
Reset—reset the system to the factory default.



H119410—UN—18JAN17

Auto Sample Selection

Auto Sample Selection—system randomly selects samples to use for calibration value.



H119411—UN—18JAN17

Manual Calibration

Manual Calibration—select desired samples to use for calibration value.



H119412—UN—18JAN17

Edit/Select Samples

Edit/Select Samples—choose samples to use for manual calibration. Edit sample scale weights or delete samples.



H119413—UN—18JAN17

Advanced Options

Advanced Options—manually adjust the calibration value or transfer calibration from another machine.



H119414—UN—18JAN17

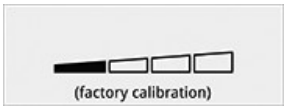
Delete Unused Samples

Delete Unused Samples—delete any samples not being used for the calibration.

SS43267,0000873-19-22MAY17

Yield | Calibration Quality Indicator

Calibration Quality Indicator indicates the quality of the calibration samples.



H119365—UN—18JAN17

Factory Calibration

Factory Calibration—indicates that factory calibration is in use. No adjustments have been made.



H119366—UN—18JAN17

Single Sample

Single Sample—indicates that only one sample has been taken or selected for use.

NOTE: Flow rate does not affect calibration quality when only one sample is used.



H119367—UN—18JAN17

Low Quality

Low Quality Sample—four or more samples are selected, but samples are not high quality and only two represent two of the flow ranges.



H121087—UN—19MAY17

High Quality

High Quality Sample—four or more samples are selected from high-quality loads and represent all flow ranges.

SS43267,0000874-19-19MAY17

Yield | Collected Sample Status

Collected Sample Status indicates the criteria met, by the current sample set. When a criterion is met a checkmark is displayed next to it.



H119368—UN—18JAN17

High Quality

High Quality—all samples are taken from a uniform area of the field that provides a constant flow of grain.



H119369—UN—18JAN17

High Flow

High Flow—determined using the gauge on the record sample page. Grain flow must be above 66% of the maximum flow for combine model and crop. Increase ground speed to increase flow.



H119370—UN—18JAN17

Medium Flow

Medium Flow—determined using the gauge on the record sample page. Grain flow must be between 33%-66% of the maximum flow for combine model and crop. Adjust ground speed to regulate flow.



H119371—UN—18JAN17

Low Flow

Low Flow—determined using the gauge on the record sample page. Grain flow must be below 33% of the maximum flow for combine model and crop. Decrease ground speed to decrease flow.

For the best calibration collect at least 4 loads in all flow ranges:

- High
- Medium
- Low

In tough harvesting conditions, when higher flow rates are not achievable, use following process:

Collect the first load using the highest harvesting speed as 100%, then collect 3 more loads lowering harvesting speed to 83%, 67%, and 50%.

Repeat the process, if more loads are to be collected.

SS43267,0000875-19-17JAN17

Yield | Mass Flow Rate

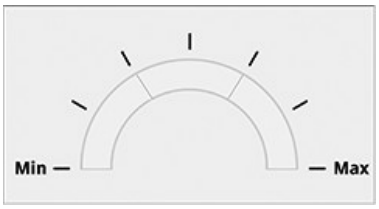
Mass Flow Rate indicates the flow of crop being harvested.



H119403—UN—18JAN17

Current Flow Rate

Current Flow Rate—current flow rate of harvested crop.



H119422—UN—18JAN17

Gauge

Gauge—graphically displays flow rate.

Min = 0%

Max = 100%



H119402—UN—18JAN17

Numeric Display

Numeric Display—displays flow rate numerically.

SS43267,0000876-19-18JAN17

Yield | Weight Indicator

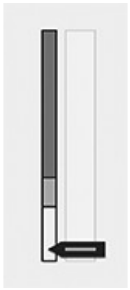
Weight Indicator displays when enough crop has been harvested to perform the calibration.



H119403—UN—18JAN17

Current Weight

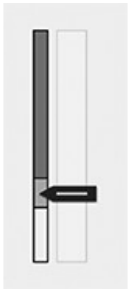
Current Weight—current calculated weight of the sample.



H119404—UN—18JAN17

Gray Zone

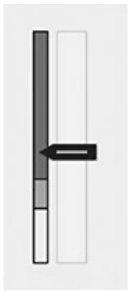
Gray Zone—sample is too small for calibration to occur.



H119405—UN—18JAN17

Light Green Zone

Light Green Zone—sample size is sufficient for calibration but is not at the ideal level. Calibration may be inaccurate.



H119399—UN—18JAN17

Green Zone

Green Zone—sample size is sufficient to perform an accurate calibration.

SS43267,0000877-19-17JAN17

Yield | Recording Status

Recording Status displays status of sample recording.



H119406—UN—18JAN17

Standing By

Standing By—system is ready to record sample once Start button is selected.



H119400—UN—18JAN17

Recording Sample

Recording Sample—sample is being recorded.

NOTE: Once sample has been recorded and saved, the system returns to stand by. The number of unmatched samples increases by one on the main page after a sample is collected.

SS43267,0000878-19-17JAN17

Yield | Reset

Reset allows you to delete all stored samples and return the system to the factory calibration value. You can also reset the calibration value to the factory default while retaining all samples.

Reset Types:



H119429—UN—18JAN17

Delete Samples (full reset)

Delete Samples (full reset)—deletes all stored samples and the current calibration value. Calibration value is set to the factory default.



H119430—UN—18JAN17

Keep Samples and Use Manual Calibration Mode

Keep Samples and Use Manual Calibration Mode—calibration value is reset to the factory value. All stored samples are retained.



H119409—UN—18JAN17

Reset

Procedure to Modify:

1. Select Reset button.
2. Select desired reset type.



H114654—UN—05JAN17

OK

3. Select OK button to confirm.



N118094—UN—18JAN17

Cancel

NOTE: Select Cancel button to return to the previous screen without making any changes.

SS43267,0000879-19-18JAN17

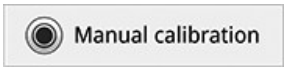
Yield | Edit/Select Calibration

Edit/Select Calibration allows you to choose samples to use for manual calibration. Edit sample scale weights or delete samples.

Modify When:

- Specific samples must be selected to obtain accurate yield.
- Automatic selection does not perform as desired.
- A new sample is not necessary.
- Incorrect scale weight was entered for a sample.

Procedure to Modify Selected Samples:



H119411—UN—18JAN17

Manual Calibration

1. Select Manual Calibration.



H119412—UN—18JAN17

Edit/Select Samples

2. Select Edit/Select Samples button.

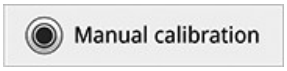


N118434—UN—23FEB16

Checkmark

3. Select checkmarks next to desired samples to use for calibration.

NOTE: For the most accurate calibration, select samples that are high quality, have a 0-3 percent margin, and represent the three flow ranges.



H119411—UN—18JAN17

Manual Calibration

Procedure to Modify Scale Weight:

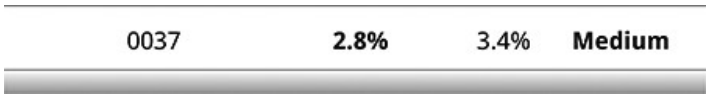
1. Select Manual Calibration.



H119412—UN—18JAN17

Edit/Select Samples

2. Select Edit/Select Samples button.



H119415—UN—18JAN17

Sample

3. Select sample to modify.



H119416—UN—18JAN17

Edit Scale Weight

4. Select Edit Scale Weight.
5. Enter desired scale weight using the keypad.



N118093—UN—16FEB16

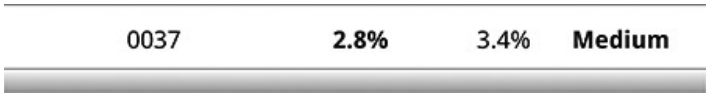
Save

6. Select Save button to confirm.



N118396—UN—17FEB16

Close



H119415—UN—18JAN17

Sample

3. Select sample to delete.



H119408—UN—18JAN17

Delete Sample

4. Select Delete Sample.



H114654—UN—05JAN17

OK

5. Select OK button to confirm.



N118094—UN—18JAN17

Cancel

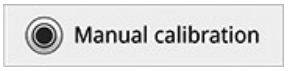
NOTE: Select Cancel button to return to the previous screen without making any changes.



N118093—UN—16FEB16

Save

7. Select Close button to return to the previous page.



H119411—UN—18JAN17

Manual Calibration

Procedure to Delete a Sample:

1. Select Manual Calibration.



H119412—UN—18JAN17

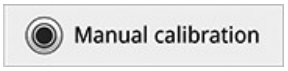
Edit/Select Samples

2. Select Edit/Select Samples button.
6. Select Save button to finalize.

SS43267,000087A-19-18JAN17

Yield | Advanced Edit

Advanced Edit allows you to manually adjust the calibration value or transfer calibration from another machine.



H119411—UN—18JAN17

Manual Calibration

Procedure to Modify:

1. Select Manual Calibration.



H119413—UN—18JAN17

Advanced Options

2. Select Advanced Options button.



H119425—UN—18JAN17

Advanced Edit

3. Select Advanced Edit.
4. Follow the on-screen directions to complete the desired procedure.

SS43267,000087B-19-17JAN17

Yield | Delete Unused Samples

Delete Unused Samples allows you to delete any samples not being used for the calibration.

Procedure to Modify:



H119414—UN—18JAN17

Delete Unused Samples

1. Select Delete Unused Sample button.



H114654—UN—05JAN17

OK

2. Select OK button to confirm.



N118094—UN—18JAN17

Cancel

NOTE: Select Cancel button to return to the previous screen without making any changes.

SS43267,000087C-19-18JAN17

ActiveYield™

This procedure automatically calibrates the estimated yield to more closely match actual scale weight of yields.

NOTE: Manual Yield Calibration is unavailable while ActiveYield™ automation is ON.

Items Accessible on ActiveYield™ Page:



H114647—UN—05JAN17

ON/OFF

Master ON/OFF—use toggle button to turn ActiveYield™ ON/OFF.

ActiveYield is a trademark of Deere & Company



H119366—UN—18JAN17

Quality

Quality—indicates the quality of the calibration samples.



N118420—UN—02NOV16

Status

Status Indicator—indicates the status of sample.



N118004—UN—22OCT15

Advanced Settings

Advanced Settings—access further adjustments and less common settings.

Details Displayed on Page:

Crop Type	Corn
Accepted Samples	10
Last Accepted	32 min ago

SS43267,0000852-19-17MAY17

ActiveYield™ | Status Indicator

Status Indicator displays the status of Record Samples and a message about that status.

Status options are as follows:



H119424—UN—18JAN17

Progress Indicator

Progress Indicator—displays when a sample is being collected.



N118420—UN—02NOV16

Green

Waiting for Sample— ActiveYield™ is not currently performing any activity.



N118019—UN—22OCT15

Gray

Master OFF—ActiveYield™ is OFF.



N118021—UN—13JAN17

Blue

Collecting Sample—sample recording is being collected.



N118420—UN—02NOV16

Green

Calibration Updated—sample recording is being updated.



N118420—UN—02NOV16

Green

Sample Rejected—sample recording has been rejected. Explanation for rejection displayed.



N118020—UN—22OCT15

Amber

Crop Type Unsupported—crop type is not currently supported.

SS43267,000086C-19-17MAY17

ActiveYield™ | Advanced Settings

Advanced Settings allows you to access further adjustments and less common settings.

NOTE: The ActiveYield™ Factory Reset will not have an impact on the samples collected in Yield Calibration.

Modify When:

ActiveYield is a trademark of Deere & Company

- Resetting to the factory defaults.
- Transferring the calibration to another machine.

Items Accessible on Advanced Settings Page:



H119409—UN—18JAN17

Reset

Reset—reset the system to the factory default.

SS43267,000086D-19-17MAY17

ActiveYield™ | Reset

Reset allows you to delete all stored samples and returns the system to the factory calibration value, or to reset the calibration value to the factory default while retaining all samples.

Procedure to Modify:



H119409—UN—18JAN17

Reset

1. Select Reset button.
2. Select desired reset type.



H114654—UN—05JAN17

OK

3. Select OK button to confirm.



N118094—UN—18JAN17

Cancel

NOTE: Select Cancel button to return to the previous screen without making any changes.

SS43267,000086E-19-17MAY17

Chassis Tilt

This procedure calibrates the Chassis Tilt to ensure best machine pitch sensor accuracy. A properly calibrated Chassis Tilt provides the best results for the harvest setting recommendations provided in the Operator's Manual.

Perform Calibration When:

- Each header type is connected to the combine for the first time.

- Fore/Aft Pitch sensor has been replaced.

Items Accessible on Chassis Tilt Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Estimated Time Required	Approximately 1-2 min

SS43267,0000853-19-18JAN17

Chassis Tilt Calibration Procedure

Procedure Requirements:

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000865-19-18JAN17

Threshing Clearance (Hydraulic)

This procedure calibrates Threshing Clearance by identifying the fully opened and closed positions of the concaves. A properly calibrated Threshing Clearance provides the best results for the harvest setting recommendation. See your Operator's Manual for more details.

IMPORTANT: Calibration should not be completed with round bar concave covers installed. An incorrect zero position results.

Perform Calibration When:

- Before each harvest season.
- Physical concave opening does not match what is being displayed in the cab.
- Concaves are replaced with a new or different set of concaves.
- Threshing clearance sensor, or associated components are replaced/adjusted.

Items Accessible on Threshing Clearance Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 1-2 min

VM03385,000027D-19-02MAR18

Threshing Clearance (Hydraulic) Calibration Procedure

Procedure Requirements:

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.

2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

VM03385,000027E-19-02MAR18

Unloading Auger Engage

This procedure calibrates Unloading Auger Engage by measuring the time it takes to engage the auger when commanded, and then adjusts to make a softer auger engagement.

Perform Calibration When:

- Unloading auger belt, hydraulic, drive, electrical or associated components are replaced/adjusted.
- Unloading auger engagement is more difficult than expected.

Items Accessible on Unloading Auger Engage Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 1-2 min

SS43267,0000855-19-18JAN17

Unloading Auger Engage Calibration Procedure

Procedure Requirements:

Engine State	Running at high idle
Operating State	Unloading auger disengaged Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,000086B-19-18JAN17

Deck Plate Spacing

This procedure calibrates the deck plate opening by identifying the fully opened and closed positions of the deck plates. Properly calibrated deck plates provide the best results for the harvest setting recommendations provided in the Corn Head Operator's Manual.

Perform Calibration When:

- Before each harvest season.
- For each different corn head that was previously attached.
- Deck plate position sensor, or associated components are replaced/adjusted.
- Deck plate opening does not appear to match what is being displayed in the cab.

Items Accessible on Deck Plate Spacing Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 1-2 min

SS43267,0000856-19-18JAN17

Deck Plate Spacing Calibration Procedure

Procedure Requirements:

Engine State	Running at low idle
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,000087F-19-18JAN17

Feeder House Raise Speed

This procedure calibrates Feeder House Raise Speed by providing the rate of response at which the feeder house raise or lower reacts. A properly calibrated Feeder House Raise Speed provides smooth feeder house raise and lowering characteristics and prevents movement that is too fast or slow.

Perform Calibration When:

- Each header type is connected to the combine for the first time.
- Attachments of significant weight are added to or removed from header.

Items Accessible on Feeder House Raise Speed Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 3-4 min

SS43267,0000857-19-17MAY17

Feeder House Raise Speed Calibration Procedure

Procedure Requirements:

Engine State	Running at high idle
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000880-19-17MAY17

Header Calibration

This procedure calibrates the coarse and fine movement of the header. Calibration is done by raising and lowering the header to set sensor ranges.

Perform Calibration When:

- Each header type is connected to the combine for the first time.
- Header height control sensor or associated components are replaced/adjusted.



N120226—UN—23FEB16

Begin Calibration

Items Accessible on Header Calibration Page:

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 5 min

SS43267,000087D-19-17JAN17

Header Calibration Procedure

Procedure Requirements

Engine State	Running at high idle
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,000087E-19-18JAN17

600x Header Self-Test

This procedure validates the calibration of the 600x series reel and cutterbar position limits. This self-test is required for normal operation. It verifies that the previous calibration points are valid for the header that is connected.

Perform Calibration When:

- Connecting to the Combine for the first time or reconnecting after using a different header.
- Reel position sensor or cutterbar position sensor is replaced.

Items Accessible on 600x Header Self-Test Page:



H119233—UN—19JAN17

Begin Self-Test

Begin Self-Test—begin calibration procedure.

Requirements—machine state required for calibration.

Last Calibration	Date and Time
Recommended Interval	Upon Connection
Estimated Time Required	Less than 1 min

VM03385,0000280-19-19JAN17

600x Header Self-Test Calibration Procedure

Procedure Requirements

Engine State	Running
Operating State	Parked on a level surface

CAUTION: During the self-test process, the header moves automatically.

To avoid the risk of death or serious injury to a bystander, ensure:

- The machine and header are clear of any obstruction.
- Bystanders are clear of the machine and header.

Procedure Overview:



H119233—UN—19JAN17

Begin Self-Test

1. Select Begin Self-Test to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

VM03385,0000281-19-19JAN17

Feeder House Tilt Fore/Aft Range

This procedure calibrates Feeder House Tilt Fore/Aft Range by measuring current commanded and associated range of the feeder house tilt. Performing this calibration improves feeder house tilt range when operating with header height lateral tilt control active.

Perform Calibration When:

- Before connecting header.
- Feeder house lateral tilt sensor or associated components are replaced/adjusted.

Items Accessible on Feeder House Tilt Fore/Aft Range Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 3-4 min

SS43267,0000A3E-19-21JUN17

Feeder House Fore/Aft Tilt Range Calibration Procedure

Procedure Requirements:

Engine State	Running at high idle
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000A40-19-21JUN17

Feeder House Lateral Tilt Range

This procedure calibrates Feeder House Lateral Tilt Range by measuring current commanded and associated range of the feeder house tilt. Performing this calibration improves feeder house tilt range when operating with header height lateral tilt control active.

Perform Calibration When:

- Before connecting header.
- Feeder house lateral tilt sensor or associated components are replaced/adjusted.

Items Accessible on Feeder House Lateral Tilt Range Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 3-4 min

SS43267,0000A3B-19-21JUN17

Feeder House Lateral Tilt Range Calibration Procedure

Procedure Requirements:

Engine State	Running at high idle
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000A3D-19-21JUN17

Feeder House Lateral Tilt Speed

This procedure calibrates Feeder House Lateral Tilt Speed by measuring current commanded and associated speed of the feeder house tilting. Performing this calibration improves feeder house tilt response when operating with header height lateral tilt control active.

Perform Calibration When:

- Before connecting header.
- Feeder house lateral tilt sensor or associated components are replaced/adjusted.

Items Accessible on Feeder House Lateral Tilt Speed Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 3-4 min

SS43267,0000858-19-18JAN17

Feeder House Lateral Tilt Speed Calibration Procedure

Procedure Requirements:

Engine State	Running at high idle
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000881-19-18JAN17

Wings (Folding Corn Head)

This procedure calibrates Folding Corn Head by folding and unfolding the wings of the corn head and measuring associated sensor voltage at each position. This allows the system to detect the position of each wing. This prevents mechanical damage to the combine or equipment by not allowing the header to contact the machine if the wings are folded or engage in any other non-desired condition.

Perform Calibration When:

- First time each header is connected to combine.
- Mechanical adjustments have been made to the head.
- Folding corn head wing position sensor, or associated components are replaced/adjusted.

Items Accessible on Folding Corn Head Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 3-4 min

SS43267,0000859-19-17MAY17

Wings (Folding Corn Head) Calibration Procedure

Procedure Requirements

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000882-19-17MAY17

Reel and Cutterbar Position

This procedure calibrates Reel and Cutterbar by extending/retracting the cutterbar and moving the reel to the minimum and maximum positions to associate the mechanical limits with sensor voltages. Performing this calibration allows the control unit to calculate positions and prevent potential damaging collisions between the Reel and Cutterbar.

Perform Calibration When:

- Reel/Cutterbar position sensors or associated components are replaced/adjusted.

Items Accessible on Reel and Cutterbar Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 3-4 min

SS43267,000085A-19-17MAY17

Reel and Cutterbar Position Calibration Procedure

Procedure Requirements

Engine State	Combine in field mode Running at high idle
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000883-19-18MAY17

Reel Position

This procedure calibrates the Reel Position by raising and lowering the reel and moving the reel fore/aft to determine the maximum position to associate the mechanical limits with sensor voltage. Performing this procedure allows the control unit to determine the adjustment limits and allow reel resume functionality.

Perform Calibration When:

- Each header type is connected to the combine for the first time.
- Reel/Cutterbar position sensors or associated components are replaced/adjusted.

Items Accessible on Reel Position Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 1-2 min

SS43267,000085B-19-18JAN17

Reel Position Calibration Procedure

Procedure Requirements

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000884-19-18JAN17

Amber Flasher

This calibration measures current demands of the amber lights. A normal current is used to compare the current demands when lights are used to detect if the trailer is attached or for bad bulb detection.

Perform Calibration When:

- Amber Flasher bulbs, or associated components are replaced/adjusted.



N120226—UN—23FEB16

Begin Calibration

Items Accessible on Amber Flasher Page:

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 1-2 min

SS43267,000085C-19-18JAN17

Amber Flasher Calibration Procedure

Procedure Requirements:

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000887-19-18JAN17

Concave Air Removal

This procedure calibrates Active Concave Isolation Air Removal by removing air from the hydraulic system of ACI. Perform this calibration if the hydraulic system has been opened to atmosphere for service or repair. Failure to complete this calibration results in less than optimal performance.

NOTE: Before entering concave air removal calibration, verify that leveling cap screws are in storage position, air removal hoses are installed, and the engine is running. See your Operator's Manual for further information.

Perform Calibration When:

- Hydraulic components for the concave system have been serviced or replaced.
- Air has entered the hydraulic system.

Items Accessible on ACI Air Removal Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed

Estimated Time Required	Approximately 3-4 min

SS43267,000085F-19-18MAY17

Concave Air Removal Calibration Procedure

Procedure Requirements:

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.
3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000885-19-18MAY17

Concave Leveling

This procedure calibrates Active Concave Isolation Leveling by identifying the fully opened and closed positions of the concaves. A properly calibrated Active Concave Isolation Leveling provides the best results for the harvest setting recommendation. See your Operator's Manual for more details.

Perform Calibration When:

- Physical concave opening does not match what is being displayed in the cab.
- Threshing clearance sensor or associated components are replaced/adjusted.
- Concaves or associated components are replaced/adjusted.

Items Accessible on ACI Leveling Page:



N120226—UN—23FEB16

Begin Calibration

Begin Calibration—begin calibration procedure.

Requirements—machine state required for calibration.

Details Displayed on Page:

Last Calibration	Date and Time
Recommended Interval	As Needed
Estimated Time Required	Approximately 3-4 min

SS43267,0000860-19-18MAY17

Concave Leveling Calibration Procedure

Procedure Requirements

Engine State	Running
Operating State	Parked on a level surface

Procedure Overview:



N120226—UN—23FEB16

Begin Calibration

1. Select Begin Calibration to begin procedure.
2. Follow messages on-screen to complete procedure.



N118093—UN—16FEB16

Save

3. Confirm Calibration by selecting Save.



N118122—UN—02MAY16

Retry

If Calibration Fails:

1. Select Retry button.
2. Verify all requirements listed on-screen have been met.

3. If calibration fails twice, see your John Deere dealer or qualified service provider.

SS43267,0000886-19-18MAY17

Combine Overview

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Combine Overview outlines the controls and features found inside the cab. Knowledge of these items helps you to correctly operate the machine as well as enhancing your comfort and operating experience.

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Items Accessible on the Combine Overview Page:



H118294—UN—22DEC16

Front Console

Front Console— items located in front of you near the steering wheel.



H118296—UN—22DEC16

Navigation Bar— items on navigation bar located below the monitor.



H118299—UN—22DEC16

Navigation Bar

Corner Post Display— on the front right-hand corner post.



H118301—UN—22DEC16

CommandARM™

CommandARM™ Console and Display— switches for machine operation, attached to the right-hand side of the seat.



H118300—UN—22DEC16

Multi-Function Lever

Multi-Function Lever— items on the multi-function lever.



H118302—UN—22DEC16

Right-Hand Cab Items

Right-Hand Cab Items— connectors and ports for information input and powering auxiliary devices, on the right-hand fender well near the window.



H118303—UN—22DEC16

Left-Hand Cab Items

Left-Hand Cab Items— items located on the left-hand side of the front console.



H118297—UN—22DEC16

Overhead Controls

Overhead Controls— items located in the headliner above you.



H118295—UN—22DEC16

Seat Controls

Seat Controls— allow adjustment to the seat to increase your operating comfort.

SS43267,000080F-19-27JAN17

Front Console

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Key Switch

Adjusting Steering Wheel

Operate Lights

Operate Turn Signals, Horn, and High/Low Beam

Operate Windshield Wiper/Washer



H121072—UN—18MAY17

Footrest

Footrest— place feet on footrests as needed to decrease fatigue and improve comfort.

Operate Ether Injection (If Equipped)

SS43267,0000812-19-18MAY17

Corner Post Display

NOTE: Some items below are only displayed if machine is equipped with the associated option.



H117815—UN—28MAR16

Left-Hand Turn Indicator

Left-Hand Turn Indicator— left-hand turn signal is active. Simultaneous operation of right-hand/left-hand turn indicators shows your warning lights are activated.



H117819—UN—28MAR16

Stop Operation

Stop Operation (Red)— illuminates and requires the machine be stopped at once and the problem corrected. Diagnostic trouble code is shown on the armrest display until the problem is resolved.



H117817—UN—28MAR16

Operator Alert

Operator Alert (Yellow)— illuminates and flashes when a problem exists with the machine. Requires the machine be stopped at earliest convenience. Diagnostic trouble code is shown on the armrest display.



H117818—UN—28MAR16

Information Alert

Information Alert (Blue)— illuminates and flashes when diagnostic trouble code is active. Alerts you to be aware of a condition. When the alert is acknowledged, the screen message disappears.



H117816—UN—28MAR16

Right-Hand Turn Indicator

Right-Hand Turn Indicator— right-hand turn signal is active. Simultaneous operation of right-hand/left-hand turn indicators shows your warning lights are activated.



H117820—UN—28MAR16

Trailer Lights Indicator

Trailer Lights Indicator— when the trailer harness is connected, lights illuminate when turn signals and brakes are applied.



H117807—UN—28MAR16

High Beam Indicator

High Beam Indicator— illuminates when the high beam lights are activated.



H113811—UN—04JAN17

Exhaust Filter Cleaning Indicator

Exhaust Filter Cleaning Indicator— illuminates when exhaust filter system is actively performing exhaust filter cleaning.



H117822—UN—22DEC16

Engine Power Meter Indicator

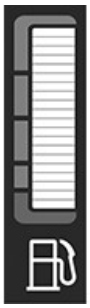
Engine Power Meter Indicator— indicates the percentage of power the engine is using at any given time.



H117823—UN—22DEC16

Engine Temperature Indicator

Engine Temperature Indicator— indicates the engine temperature. Green area indicates normal operating temperature, red indicates overheating condition.



H117824—UN—22DEC16

Fuel Gauge Indicator

Fuel Level Indicator— indicates the amount of fuel remaining in the fuel tank.



H118085—UN—22DEC16

Diesel Exhaust Fluid (DEF) Level Indicator

Diesel Exhaust Fluid (DEF) Level Indicator— indicates how much fluid remains in the tank.



H117826—UN—22DEC16

Transmission Gear or Range Indicator

Transmission Gear or Range Indicator, 3-Speed Push-Button Shift Transmission (PBST) Machines— 1, 2, or 3 illuminates indicating the current gear selected.



H118558—UN—22DEC16

Transmission Gear or Range Indicator

Transmission Gear or Range Indicator, 2-Speed ProDrive™ Machines— 1 or 2 illuminates indicating the current gear selected.



H117827—UN—28MAR16

Park Brake Indicator

Park Brake Indicator— illuminates when the park brake is engaged.



H117828—UN—28MAR16

Neutral Indicator

Neutral Indicator— illuminates when the neutral position is selected.



H117829—UN—28MAR16

Engine Speed Indicator

Engine Speed Indicator— indicates the engine rpm speed.



H117830—UN—28MAR16

Vehicle Speed Indicator

Vehicle Speed Indicator— indicates the machine speed (km/h or mph).

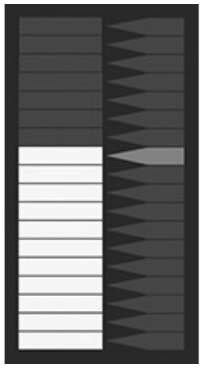


H116357—UN—22DEC16

Header Height Numeric Display

Header Height Numeric Display— when running on ground height sensing psi or bar will be illuminated depending on units selected. In off ground height

sensing the numbers will fluctuate according to sensor feedback and neither psi or bar will be illuminated.



H116356—UN—20DEC16

Header Height Display

Header Height Display— the green arrow is the set point and the white bars represent the current position.



H116354—UN—19DEC16

Header Activation Number

Header Activation Number— indicates the currently selected activation button.



H116362—UN—19DEC16

Deck Plate Position Resume

Deck Plate Position Resume— illuminates when deck plate position resume is enabled.



H116360—UN—19DEC16

Dial-A-Speed™

Dial-A-Speed— illuminates when Dial-A-Speed is enabled.



H116361—UN—19DEC16

Reel Resume

Reel Resume— illuminates when reel the resume is enabled.



H116353—UN—19DEC16

Header Height Resume

Header Height Resume— illuminates when the header height resume is enabled.



H116358—UN—19DEC16

Header Height Sensing

Header Height Sensing— illuminates when header height sensing is active.



H117843—UN—22JUN17

Active Header Float

Active Header Float— illuminates when the active header float is active.



H116359—UN—19DEC16

Lateral Tilt Display

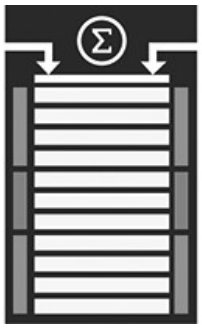
Lateral Tilt Display— indicates position of the feeder house frame.



H117835—UN—22DEC16

Shoe Loss Indicator

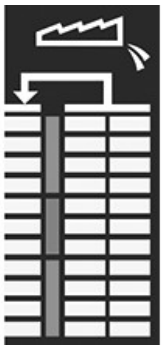
Shoe Loss Indicator— indicates grain loss from shoe.



H117836—UN—22DEC16

Total Loss Indicator

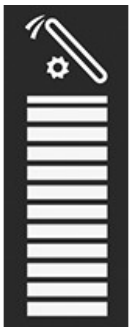
Total Loss Indicator— indicates the combined grain loss from shoe and separator area.



H117837—UN—22DEC16

Separator Loss Indicator

Separator Loss Indicator— indicates the grain loss from separator area.



H117838—UN—22DEC16

Tailings Volume Indicator

Tailings Volume Indicator— indicates volume of tailings return.

SS43267,0000813-19-27JAN17

CommandARM™ Console and Display

NOTE: Some items below are only displayed if machine is equipped with the associated option.

Harvesting Controls— controls for the cleaning fan, threshing clearance, separator speed, and other harvesting functions.

HVAC— select to adjust temperature, fan speed, and air flow mode inside of cab and view outside temperature.

Radio— select to access radio presets that you can configure.

Engine and Ground Drive— controls for engine speed, park brake, and ground drive.

Lights— select to access light presets that you can configure.

Console and Display— select for adjustments to the console and display.

CommandARM is a trademark of Deere & Company

SS43267,0000814-19-27JAN17

Multi-function Lever



H117033—UN—15APR16

Quick Stop Switch

Quick Stop Switch— allows you to simultaneously shut OFF multiple systems in the case of an emergency.



H117003—UN—22DEC16

Unloading Auger Switch

Unloading Auger Swing Switch— allows you to swing unloading auger in or out manually or automatically.



H123658—UN—02MAR18

Unloading Auger Drive Switch

Unloading Auger Drive Switch— allows you to engage or disengage the unloading auger and indicator light.



H117006—UN—28MAR16

Programmable Button

Programmable Buttons— depending on the machine options and header types, the buttons are programmable to different functions. (See Controls Setup Application in Onscreen Help for more information.)



H117005—UN—15APR16

AutoTrac™ Resume Button

AutoTrac™ Resume Button (If Equipped)— allows you to activate or deactivate system.

AutoTrac™



H116348—UN—19DEC16

Header Raise/Lower Switch

Header Raise/Lower and Tilt (If Equipped) Switch— allows you to raise or lower header and tilt the feeder house.



H116349—UN—19DEC16

Reel Raise/Lower, Reel Fore/Aft

Reel Raise/Lower, Reel Fore/Aft (If Equipped) Switch— allows you to control the position of the reel.



H116349—UN—19DEC16

Feeder House Backshaft Speed, Adjustable Corn Head Deck Plates

Feeder House Backshaft Speed, Adjustable Corn Head Deck Plates Switch (If Equipped)— allows you to control feeder house backshaft speed or adjustable corn head deck plates.

AutoTrac is a trademark of Deere & Company



H116346—UN—19DEC16

Header Activation Buttons

Header Activation Buttons— allows you to activate multiple automatic header control systems by pressing one of the three buttons.

SS43267,0000815-19-02MAR18

Navigation Bar



H117902—UN—29MAR16

Dial

Adjustment Dial— Turn the Adjustment Dial to increase or decrease selected input field. The button located in the center of the adjustment wheel is called the Close Button. Pressing this button closes pages on the CommandCenter™.

CommandCenter is a trademark of Deere & Company



H117903—UN—29MAR16

Home Page Scroll

Home Page Scroll— press to scroll through custom Run Pages.



H117904—UN—19DEC16

Header

Header— press to open the Header Application.



H117905—UN—29MAR16

Harvest Settings

Harvest Settings— press to open the Harvest Settings Application.



H117906—UN—29MAR16

Engine— press to open the Engine Application.



H117907—UN—29MAR16

Grain Handling

Grain Handling— press to open the Grain Handling Application.



H117908—UN—29MAR16

Residue Management

Residue Management— press to open the Residue Management Application.



H117909—UN—29MAR16

Folding

Folding— press to open the Folding Application.



H117910—UN—29MAR16

Work Monitor

Work Monitor— press to open the Work Monitor Application.



H117911—UN—29MAR16

Control Setup

Control Setup— press to open the Control Setup Application.



H117912—UN—29MAR16

HVAC

HVAC— press to open the HVAC Application.



H117913—UN—29MAR16

Lights

Lights— press to open the Lights Application.



H117914—UN—29MAR16

Audio

Audio— press to open the Audio Application.



H117915—UN—29MAR16

Phone

Phone— press to open the Phone Application.



H117916—UN—29MAR16

Video

Video— press to open the Video Application.

SS43267,0000816-19-27JAN17

Right-Hand Cab Items



N128645—UN—15FEB17

Auxiliary Outlet

Auxiliary Outlet— used when connecting accessories (12 V).



N122943—UN—02MAY16

USB Outlet

USB Outlet— used for exporting information to a flash drive, loading information to the display, and display programming.



N122944—UN—05MAY16

Auxiliary (AUX) Input

Auxiliary (AUX) Input— used for playing music from an auxiliary source on the radio when that mode is selected on the radio.



N122945—UN—05MAY16

USB Input

USB Input— used for playing music from an USB source on the radio when that mode is selected on the radio.



H121337—UN—18MAY17

2630 Ethernet Input

2630 Ethernet— used to connect a 2630 display as a secondary monitor.



H121338—UN—18MAY17

4600 Extended Monitor Port

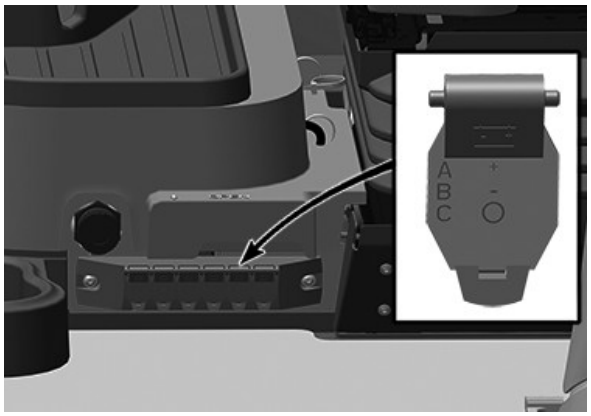
4600 Extended Monitor Port— used to connect a 4600 extended monitor for a secondary display.



H121339—UN—18MAY17

Auxiliary Display Connector

Auxiliary Display Connector— used for connecting auxiliary equipment.



H118079—UN—19JAN17

Auxiliary Power Outlet Strip

Auxiliary Power Outlet Strip— is equipped with six additional electrical outlets which are at the lower rear of the right-hand window. These outlets provide key-switched or unswitched power.

NOTE: Maximum combined current draw for switch power is 20 amps and unswitched power is 30 amps.

- Spade terminal (A) is direct positive power at all times.
- Spade terminal (B) is ground.
- Spade terminal (C) is auxiliary power (key switch ON).

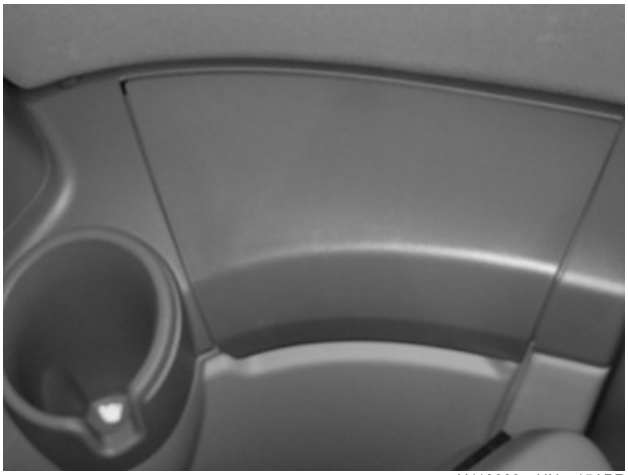


H121414—UN—18MAY17

Emergency Exit

Emergency Exit— allows you to exit the combine in case of emergency.

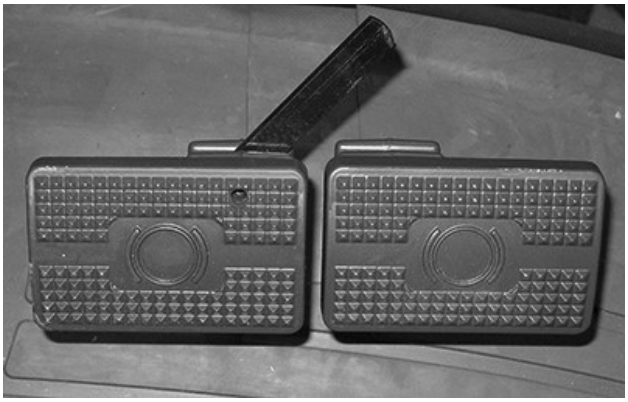
- Pull down to remove the emergency exit device.
- Use the hammer to break the window and exit cab if doors do not open.
- Use the knife in the handle to cut seat belts if they do not unbuckle.



H118069—UN—15APR16

Manual Storage Location

Manual Storage Location— compartment located along rear cab wall that stores the Operator's Manual.

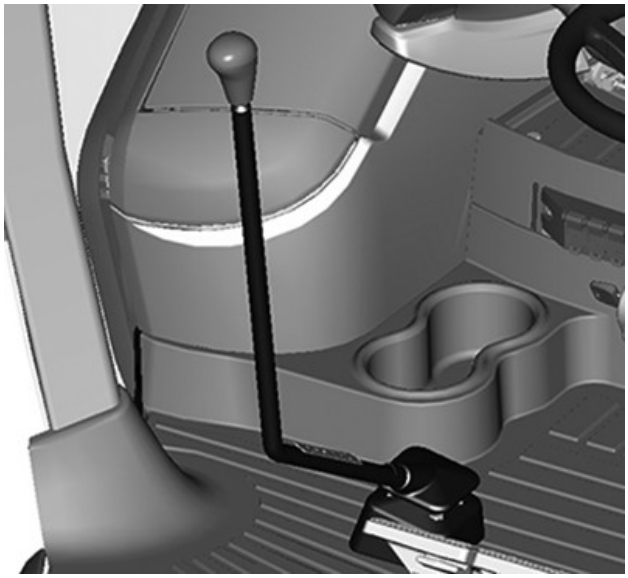


H118068—UN—15APR16

Brake Pedals

Brake Pedals— allows you to stop the machine.

Leave the brake pedals unlocked for field use and locked together when transporting.



H118076—UN—15APR16

Gearshift Lever

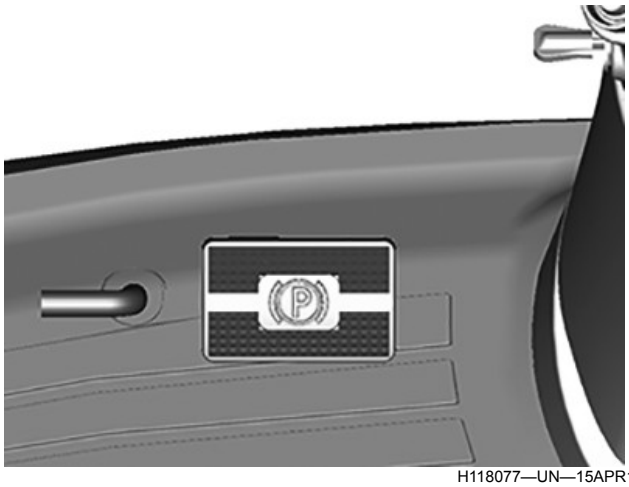
Gearshift Lever (If Equipped)— allows you to manually shift gears.

IMPORTANT: Stop the machine and move the multi-function lever to neutral before shifting gears.

When shifting the gearshift lever, the shift pattern is a straight line with detents for 1, 2, and 3. Less resistance is felt for neutral between 1st and 2nd gears.

SS43267,0000817-19-02MAR18

Left-Hand Cab Items



H118077—UN—15APR16

Manual Park Brake

Manual Park Brake (If Equipped)— allows you to manually set the parking brake.

IMPORTANT: Machine is equipped with manual engage and disengage the park brake pedals. Be certain to engage the park brake when the engine is running and the machine is parked or before leaving the machine with the engine turned OFF.

Press the right pedal to engage the park brake and the left pedal to disengage the park brake.



H118074—UN—15APR16

Refrigerator

Refrigerator (If Equipped)— provides a space to keep food or beverages cool throughout the day.

NOTE: Refrigerator operates only when the key switch is in the Run position and MUST remain plugged into the auxiliary outlet to keep food or beverages cold.

Raise the seat bottom to open the refrigerator top cover. Refrigerator front cover can also be opened without raising the seat bottom.

Turn the temperature control dial clockwise to decrease temperature or counterclockwise to increase temperature.

SS43267,0000818-19-27JAN17

Overhead Controls



H118064—UN—22DEC16

Microphone

Microphone (Optional)— allows you to communicate hands-free using a Bluetooth® cell phone. (Bluetooth™ must be enabled.)

NOTE: Key switch must be in the Run position.



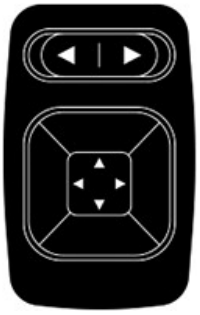
H118065—UN—22DEC16

Mirror Heater Button

Mirror Heater Button— activates mirror heaters to remove ice and fog.

- Press top of the switch to activate mirror heat.
- Press bottom of the switch to deactivate mirror heat.

NOTE: Key switch must be in the Run position.



H118066—UN—15APR16

Mirror Control Buttons

Mirror Control Buttons— allow you to select and adjust either the right-hand or left-hand cab mirrors.

- Select mirror to adjust using the top button.

Bluetooth is a trademark of Bluetooth SIG

- Selected mirror can be moved up or down or left or right using the bottom button. Move the button in the direction you desire the mirror to move.

NOTE: Key switch must be in the Run position.

SS43267,0000819-19-27JAN17

Seat Controls

ComfortCommand™ Operator's Seat (Basic Seat)

ComfortCommand™ Operator's Seat (Premium Cloth Seat)

ComfortCommand™ Operator's Seat (Premium Leather Seat)

Seat Belts

Instructional Seat

ComfortCommand is a trademark of Deere & Company

CS12167,0000B71-19-07JUN18

Key Switch

CAUTION: Sound horn before starting the engine to clear people away from the machine.

To avoid the possibility of personal injury or death, start ONLY from the operator seat. Do NOT start the engine by shorting across starter terminals. Machine starts in gear if normal circuit is bypassed.



H118582—UN—22DEC16

Key Switch

Key switch is on the right-hand side of the steering column and has four positions:



H117799—UN—15APR16

Accessories

Accessories— allows accessories such as the radio and windshield wiper to operate without engine running.



H117800—UN—28MAR16

Stop

Stop— shut OFF the engine and all accessory functions.



H117801—UN—28MAR16

Run

Run— allows all accessories to operate and the engine to run once it has been started.



H117802—UN—28MAR16

Start

Start— momentary switch position that cranks the engine. Once the engine starts and the switch is released, it returns to the run position.

SS43267,000081B-19-27JAN17

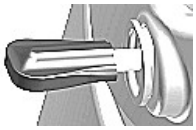
Adjusting Steering Wheel



H117796—UN—28MAR16

Telescope

Telescope— rotate the knob counterclockwise to release lock. Extend or retract the steering wheel to the desired position. Rotate knob clockwise to lock.



H117797—UN—28MAR16

Tilt

Tilt— pull up on lever and move the steering column to the desired position. Release lever to lock.



H117798—UN—28MAR16

Memory

Memory— push down on the foot pedal on the floor of the cab to permit steering column to move up and out of your way for easy entry or exit. Push down on the foot pedal and pull down on steering wheel to return steering column to previous setting.

SS43267,000081C-19-27JAN17

Operate Lights

CAUTION: Accidental collision with another vehicle can cause serious injury or death to you or others. Always comply with traffic regulations when driving machine on a road. Dim headlights to low-beam for oncoming vehicles. To avoid motorist confusion, do not operate work lights when transporting on public roadways.



H117803—UN—28MAR16

Switch

Switch— select light operation mode.



H117809—UN—28MAR16

OFF

OFF— select to turn all exterior lighting OFF.

NOTE: If warning light switch is ON then warning lights remain ON.



H119796—UN—07JUN18

Park Lights

Park Lights— select to turn ON marker lights.



H117808—UN—28MAR16

Road Lights

Road Lights— select to turn ON headlights and marker lights.



N123280—UN—16MAY16

Field Lights

Field Lights— select to turn ON field lights to selected preset.

CS12167,0000B74-19-07JUN18

Operate Turn Signals, Horn and High and Low Beam



H117803—UN—28MAR16

Turn Signals

Turn Signals— push up lever for a right turn or pull down for a left turn. Return lever to the center position after completing turn.



H117804—UN—28MAR16

Right-Hand Turn

Right-Hand Turn— push lever up for a right-hand turn.



H117805—UN—28MAR16

Left-Hand Turn

Left-Hand Turn— pull down for a left-hand turn.



H117806—UN—28MAR16

Horn

Horn— push inward on end of lever to activate the horn.



H117048—UN—22DEC16

High Beam

High Beam— push lever forward to activate the high beam headlights. Pull lever toward you and release to flash the high beam.



H117808—UN—28MAR16

Low Beam

Low Beam— pull lever into center position to operate the low beam.



H117886—UN—29MAR16

Filed Light Preset 1

Field Light Preset 1— press to select Field Light Preset 1.



H117887—UN—29MAR16

Field Light Preset 2

Field Light Preset 2— press to select Field Light Preset 2.

SS43267,000081E-19-18MAY17

Operate Windshield Wiper and Washer



H117803—UN—28MAR16

Switch

NOTE: Fill washer reservoir with non-freezing solution to prevent damage to washer system in cold temperatures.

Switch— rotate to operate the wiper at desired speed.



H117809—UN—28MAR16

OFF

OFF— select to turn the wiper OFF.



H117810—UN—28MAR16

Intermittent

Intermittent— select so the wiper operates intermittently.



H117811—UN—28MAR16

Windshield Washer

Windshield Washer— press to operate the windshield washer.



H117812—UN—28MAR16

Wiper ON

Wiper ON— select to operate the windshield wiper.

SS43267,000081F-19-27JAN17

Operate Ether Injection (If Equipped)



H121070—UN—18MAY17

Ether Injection

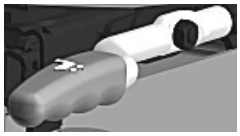
Ether Injection— press while cranking the engine to aid in cold weather starting. Release button after the engine starts.

CAUTION: Avoid personal injury and damage to engine. Inject fluid only while engine is turning.

IMPORTANT: To assure proper lubrication, operate engine at low speed, with no load for 1-2 minutes. Extend this period to 2-4 minutes when operating at temperatures below freezing.

SS43267,0000820-19-18MAY17

ComfortCommand™ Operators Seat (Basic Seat)



H117034—UN—28MAR16

Fore/Aft Adjustment Handle

Fore/Aft Adjustment Handle— pull up on the handle to slide seat forward or rearward for the best working position.



H117035—UN—28MAR16

Vertical Shock Dampener Control

Vertical Shock Dampener Control— limits amount of upward motion the seat suspension provides. Push control forward for a soft ride or pull handle rearward for a firm ride. Between these two positions is medium firmness.



H117861—UN—28MAR16

Weight/Height Adjustment Handle

Weight/Height Adjustment Handle— pull up on the handle to raise seat, or push down on the handle to lower seat. Adjust seat until green mark is visible in the weight/height indicator.



H117037—UN—28MAR16

Weight/Height Indicator

Weight/Height Indicator— use the weight/height adjustment handle to adjust seat until green marking is visible in indicator.



H117036—UN—28MAR16

Fore/Aft Isolation Adjustment Handle

Fore/Aft Isolation Adjustment Handle— pull up on the handle to lock forward or rearward movements. Push down on the handle to release.



H117042—UN—28MAR16

Armrest Height Adjustment

Armrest Height Adjustment— remove the round cap and loosen the nut to adjust the left-hand armrest to desired position.



H117041—UN—28MAR16

Back Rest Angle Adjustment Handle

Back Rest Angle Adjustment Handle— adjusts the seat back angle. Pull up on handle and adjust backrest to desired position and release handle.



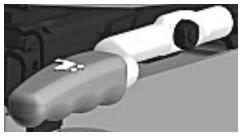
H121071—UN—18MAY17

Seat Swivel Handle

Seat Swivel Handle— Lift on the handle to allow the seat to swivel. Push down on handle to lock seat in position.

SS43267,0000821-19-18MAY17

ComfortCommand™ Operators Seat (Premium Cloth Seat)



H117034—UN—28MAR16

Fore/Aft Adjustment Handle

Fore/Aft Adjustment Handle— pull up on the handle to slide seat forward or rearward for the best working position.



H117035—UN—28MAR16

Vertical Shock Dampener Control

Vertical Shock Dampener Control— limits amount of upward motion the seat suspension provides. Push control forward for a soft ride or pull handle rearward for a firm ride. Between these two positions is medium firmness.



H117861—UN—28MAR16

Weight/Height Adjustment Handle

Weight/Height Adjustment Handle— pull up on the handle to raise seat, or push down on the handle to lower seat. Adjust seat until green mark is visible in the weight/height indicator.



H117037—UN—28MAR16

Weight/Height Indicator

Weight/Height Indicator— use the weight/height adjustment handle to adjust seat until green marking is visible in indicator.



H117039—UN—28MAR16

Seat Bottom Depth Adjustment Handle

Seat Bottom Depth Adjustment Handle— press the handle to move the seat bottom forward or rearward for the best working condition.



H117036—UN—28MAR16

Fore/Aft Isolation Adjustment Handle

Fore/Aft Isolation Adjustment Handle— pull up on the handle to lock forward or rearward movements. Push down on the handle to release.



H117040—UN—28MAR16

Lateral Isolation Adjustment Handle

Lateral Isolation Adjustment Handle— push the handle forward to release side-to-side movement. Pull the handle rearward to lock.



H117043—UN—28MAR16

Armrest Angle Adjustment Knob

Armrest Angle Adjustment Knob— adjusts the armrest up or down. Rotate knob clockwise to lower and counterclockwise to raise.



H117042—UN—28MAR16

Armrest Height Adjustment

Armrest Height Adjustment— remove the round cap and loosen the nut to adjust the left-hand armrest to desired position.



H117041—UN—28MAR16

Back Rest Angle Adjustment Handle

Back Rest Angle Adjustment Handle— adjusts the seat back angle. Pull up on handle and adjust backrest to desired position and release handle.



H121071—UN—18MAY17

Seat Swivel Handle

Seat Swivel Handle— Lift on the handle to allow the seat to swivel. Push down on handle to lock seat in position.



H117044—UN—28MAR16

Heated/Ventilated Seat

Heated/Ventilated Seat— press the top of the switch to turn ON seat heater. Press the bottom of the switch to turn ON seat ventilation. Switch in the middle position turns seat heater and seat ventilation OFF.

CAUTION: An overheated seat heater can cause a burn injury or damage to the seat. To reduce the risk of burns, use caution when using the seat heater for extended periods of time, especially if the operator cannot feel temperature change or pain to the skin. Do not place objects on the seat, such as a blanket, cushion, cover, or similar item, which can cause the seat heater to overheat.



H117045—UN—28MAR16

Upper Lumbar Support

Upper Lumbar Support— press the top switch towards the plus (+) symbol to increase upper lumbar support curvature. Push the top switch towards the minus (-) symbol to decrease upper lumbar support curvature.



H117046—UN—28MAR16

Lower Lumbar Support

Lower Lumbar Support— press the bottom switch towards the plus (+) symbol to increase lower lumbar support curvature. Push the bottom switch towards the minus (-) symbol to decrease lower lumbar support curvature.



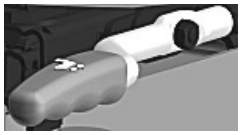
H117047—UN—28MAR16

Armrest Control Console

Armrest Control Console— loosen knob and slide the armrest control console up/forward or down/back in slots on outer plate. Tighten knob.

CS12167,0000B72-19-18JUN18

ComfortCommand™ Operators Seat (Premium Leather Seat)



H117034—UN—28MAR16

Fore/Aft Adjustment Handle

Fore/Aft Adjustment Handle— pull up on the handle to slide seat forward or rearward for the best working position.



H117035—UN—28MAR16

Vertical Shock Dampener Control

Vertical Shock Dampener Control— limits amount of upward motion the seat suspension provides. Push control forward for a soft ride or pull handle rearward for a firm ride. Between these two positions is medium firmness.



H119780—UN—07JUN18

Weight/Height Adjustment Switch

Weight/Height Adjustment Switch— press the top of the switch to raise seat or press the bottom of the switch to lower seat. Adjust seat until green mark is visible in the weight/height indicator.



H117037—UN—28MAR16

Weight/Height Indicator

Weight/Height Indicator— use the weight/height adjustment handle to adjust seat until green marking is visible in indicator.



H117039—UN—28MAR16

Seat Bottom Depth Adjustment Handle

Seat Bottom Depth Adjustment Handle— press the handle to move the seat bottom forward or rearward for the best working condition.



H117036—UN—28MAR16

Fore/Aft Isolation Adjustment Handle

Fore/Aft Isolation Adjustment Handle— pull up on the handle to lock forward or rearward movements. Push down on the handle to release.



H119781—UN—07JUN18

Lateral Isolation Adjustment Handle

Lateral Isolation Adjustment Handle— push the handle forward to release side-to-side movement. Pull the handle rearward to lock.



H117043—UN—28MAR16

Armrest Angle Adjustment Knob

Armrest Angle Adjustment Knob— adjusts the armrest up or down. Rotate knob clockwise to lower and counterclockwise to raise.



H117042—UN—28MAR16

Armrest Height Adjustment

Armrest Height Adjustment— remove the round cap and loosen the nut to adjust the left-hand armrest to desired position.



H117041—UN—28MAR16

Back Rest Angle Adjustment Handle

Back Rest Angle Adjustment Handle— adjusts the seat back angle. Pull up on handle and adjust backrest to desired position and release handle.



H121071—UN—18MAY17

Seat Swivel Handle

Seat Swivel Handle— Lift on the handle to allow the seat to swivel. Push down on handle to lock seat in position.



H119782—UN—07JUN18

Heated/Ventilated Seat

Heated/Ventilated Seat— press the top of the switch to turn ON seat heater. Press the bottom of the switch to turn ON seat ventilation. Switch in the middle position turns seat heater and seat ventilation OFF.

CAUTION: An overheated seat heater can cause a burn injury or damage to the seat. To reduce the risk of burns, use caution when using the seat heater for extended periods of time, especially if the operator cannot feel temperature change or pain to the skin. Do not place objects on the seat, such as a blanket, cushion, cover, or similar item, which can cause the seat heater to overheat.



H117045—UN—28MAR16

Upper Lumbar Support

Upper Lumbar Support— press the top switch towards the plus (+) symbol to increase upper lumbar support curvature. Push the top switch towards the minus (-) symbol to decrease upper lumbar support curvature.



H117046—UN—28MAR16

Lower Lumbar Support

Lower Lumbar Support— press the bottom switch towards the plus (+) symbol to increase lower lumbar

support curvature. Push the bottom switch towards the minus (-) symbol to decrease lower lumbar support curvature.



H117047—UN—28MAR16

Armrest Control Console

Armrest Control Console— loosen knob and slide the armrest control console up/forward or down/back in slots on outer plate. Tighten knob.

CS12167,0000B73-19-18JUN18

Seat Belts



H118075—UN—15APR16

Seat Belt

Seat belts are standard equipment on both operator and instructional seats. Lap type seat belts have a push-button quick release and automatic belt retraction to allow unrestricted exiting and entering.

CAUTION: Inspect seat belts and mounting hardware on your machine at least once a year. If the seat belt system, including mounting hardware, buckle, belt, or retractor, shows any sign of damage such as cuts, fraying, extreme or unusual wear, discoloration or abrasion, the entire seat belt system should be replaced immediately. For your safety, replace the belt system only with replacement parts approved for your machine. See your John Deere dealer for replacement parts.

SS43267,0000823-19-27JAN17

Instructional Seat



H118073—UN—15APR16

Instructional Seat

Seat back and seat bottom can be raised or lowered to desired operating position.

CAUTION: The instructional seat has been provided only for training operators or diagnosing machine problems. Keep all other riders off the machine and equipment. Always wear seat belts.

SS43267,0000824-19-27JAN17

Harvesting Controls



H117027—UN—28MAR16

Lock

Programmable Shortcut Lock— sets shortcut switch to avoid accidental change. Indicator illuminates when selected.



H116352—UN—20DEC16

Dial-A-Speed™ Dial

Dial-A-Speed™ Dial— turn the dial clockwise to increase reel or belt pickup speed and setpoint or counterclockwise to decrease reel or belt pickup speed and setpoint.



H116347—UN—20DEC16

Header Height/HydraFlex™ Pressure Control Dial

Header Height/HydraFlex™ Pressure Control Dial— select position of the header relative to the ground and return to that position automatically. Turn dial clockwise to raise header and setpoint (if equipped with HydraFlex™ increase pressure). Turn dial counterclockwise to lower header and setpoint (if equipped with HydraFlex™ decrease pressure).



H117923—UN—22DEC16

Feeder House Reverser

Feeder House Reverser— used to hydraulically shift the feeder house gearcase into reverse mode to clear a plugged feeder house or header.



H117924—UN—22DEC16

Belt Pickup Cleanout

Belt Pickup Cleanout— delays re-engagement of the header belt drive system, which allows an ejected slug to be reingested into the feeder house in smaller segments.



H117924—UN—22DEC16

Header Engage

Header Engage— push down and forward to lock the switch in ON position or pull back on the switch to turn OFF.



H117925—UN—22DEC16

Separator Engage

Separator Engage— push down and forward to lock the switch in ON position or pull back on the switch to turn OFF.



H117017—UN—28MAR16

Discharge Swap Button

Discharge Swap— allows you to quickly adjust the residue spread in the opposite direction to compensate for wind interference when turning on headlands.

NOTE: Swap is only available when the Direction adjustment is not in the center position.



H115034—UN—28MAR16

Armrest Adjustment Dial

Armrest Adjustment Dial— is used to increase or decrease adjustments.

- Rotate dial clockwise to increase setting.
- Rotate dial counterclockwise to decrease setting.

Dial-A-Speed is a trademark of Deere & Company
HydraFlex is a trademark of Deere & Company



H117012—UN—28MAR16

Threshing Clearance Adjust

Threshing Clearance Adjust— press to activate Armrest Adjustment Dial to select desired clearance.



H117013—UN—28MAR16

Threshing Speed Adjust

Threshing Speed Adjust— press to activate Armrest Adjustment Dial to select desired speed.



H117011—UN—29MAR16

Cleaning Fan Speed Adjust

Cleaning Fan Speed Adjust— press to activate Armrest Adjustment Dial to select desired speed.



H117014—UN—28MAR16

Chaffer Adjust

Chaffer Adjust— press to activate Armrest Adjustment Dial to select desired clearance.



H117015—UN—28MAR16

Sieve Adjust

Sieve Adjust— press to activate Armrest Adjustment Dial to select desired clearance.



H118063—UN—15APR16

Programmable Buttons

Programmable Buttons— depending on the machine options and header type, the buttons are programmable to different functions. (See Controls Setup Application in Onscreen Help for more information.)



H117029—UN—28MAR16

Manual Left Tilt

HillMaster™ Manual Tilt Left (If Equipped)— press to tilt the machine chassis to the left.



H117030—UN—28MAR16

Manual Right Tilt

HillMaster™ Manual Tilt Right (If Equipped)— press to tilt the machine chassis to the right.



H117031—UN—28MAR16

Automatic Leveling

HillMaster™ Automatic Leveling (If Equipped)— press to allow the machine separator to automatically level itself as the machine moves over rolling ground.

SS43267,0000977-19-27JAN17

HVAC



N120890—UN—05MAY16

Fan Speed

Fan Speed— press to change the in cab fan speed.



H117877—UN—29MAR16

Air Flow Direction

Air Flow Control— press to select desired air flow direction.



N121549—UN—12MAY16

Temperature Control

Temperature Control— press to change the temperature of cab.

SS43267,0000826-19-27JAN17

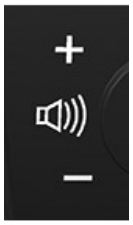
Radio



N123514—UN—22SEP16

Seek

Seek— press to seek radio channel.



N124430—UN—22SEP16

Volume Control

Volume Control— press to change the audio volume.



H117918—UN—29MAR16

Mute— press to mute the microphone.

- Press to mute audio.
- Press to resume play of audio.

SS43267,0000827-19-27JAN17

Engine and Ground Drive



H117023—UN—22DEC16

Push-Button Shift Gear

Push-Button Shift Gear (If Equipped)— press the desired button (1, 2, or 3) to increase or decrease the machine ground speed. Selected speed indicator illuminates.



H117917—UN—22DEC16

ProDrive™

ProDrive™ (If Equipped)— press the desired button (1 or 2) to increase or decrease the machine ground speed. Selected speed indicator illuminates.

ProDrive is a trademark of Deere & Company



H117019—UN—28MAR16

Engine Speed (Slow Speed)

Engine Speed (Slow Speed)— press for slow engine speed. Indicator illuminates when selected.



H117020—UN—28MAR16

Engine Speed (Medium Speed)

Engine Speed (Medium Speed)— press for medium engine speed. Indicator illuminates when selected.



H117021—UN—28MAR16

Engine Speed (Fast Speed)

Engine Speed (Fast Speed)— press for fast engine speed. Indicator illuminates when selected.



H117022—UN—28MAR16

Road Transport Disconnect

Road Transport Disconnect— press prior to transporting the machine on roadway. Indicator illuminates when selected.



H117024—UN—28MAR16

Four-Wheel Drive High Speed

Four-Wheel Drive High Speed (If Equipped)— press to control the speed of the four-wheel drive system.



H117025—UN—28MAR16

Four-Wheel Drive Slow Speed

Four-Wheel Drive Slow Speed (If Equipped)— press to control the speed of the four-wheel drive system.



H117026—UN—28MAR16

Differential Lock

Differential Lock (If Equipped)— press to manually engage/disengage the differential lock to resolve traction problems in the field.



H117028—UN—28MAR16

Park Brake

Park Brake— press to manually or automatically engage/disengage the park brake to prevent machine movement.

SS43267,0000828-19-27JAN17

Lights



H117886—UN—29MAR16

Field Light Preset 1

Field Light Preset 1— press to select Field Light Preset 1.



H117887—UN—29MAR16

Field Light Preset 2

Field Light Preset 2— press to select Field Light Preset 2.



H117884—UN—29MAR16

Beacon Lights— press to turn beacon lights ON/OFF.



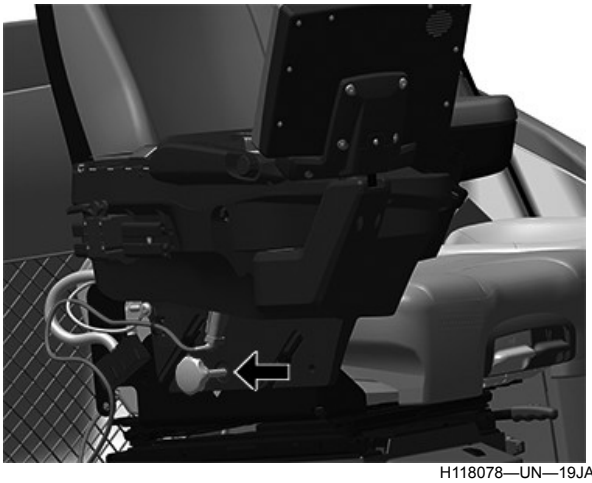
H117885—UN—29MAR16

Hazard Light

Hazard Light— press to turn hazard lights ON/OFF.

SS43267,0000829-19-27JAN17

Console and Display



H118078—UN—19JAN17

Armrest Control Console

Armrest Control Console— loosen knob and slide the armrest control console up/forward or down/back in slots on outer plate. Tighten knob to lock the armrest into position.



N128644—UN—15FEB17

USB Charging

USB Charging— allows you to charge mobile devices. These ports are located inside the console storage compartment. They are not connected to the radio or the display.



N128645—UN—15FEB17

Auxiliary Outlet

Auxillary Outlet— used for powering devices (12 V). Located inside the console storage compartment.



H117794—UN—19JAN17

Arm

Arm— rotate arm left/right to the desired operating position.

NOTE: This function is only available on machines not equipped with seat swivel configurations.



H117795—UN—15APR16

Display

Display— rotate display left/right to the desired operating position.

SS43267,000082A-19-18MAY17

Feeder House Reverser



H117923—UN—22DEC16

Feeder House Reverser

Used to hydraulically shift the feeder house gearcase into reverse mode to clear a plugged feeder house or header.

- Push down, pull back, and hold feeder house reverser switch to clear out feeder house plug.
- Release switch once feeder house is cleared.

NOTE: If operating at a high engine speed, turn feeder house reverser switch OFF and throttle engine to low idle.

SS43267,000082B-19-27JAN17

Belt Pickup Cleanout



H117924—UN—22DEC16

Belt Pickup

Delays re-engagement of the header belt drive system, which allows an ejected slug to be reingested into the feeder house in smaller segments.

NOTE: In order for cleanout operation to begin, the process of engaging, reversing, and engaging again must occur within 30 s.

Press forward to engage the header, pull back to engage feeder house reverser, and forward again to engage header.

SS43267,000082C-19-27JAN17

Header Engage



H117924—UN—22DEC16

Header Engage

Push down and forward to lock the switch in ON position or pull back on the switch to turn OFF.

System Requirements:

- Separator Engage must be ON.
- Road Transport Disconnect must be in field position.
- You must be seated for the header to operate.

NOTE: If you leave seat after engagement, header continues to operate for five seconds before disengaging.

SS43267,000082D-19-27JAN17

Separator Engage



H117925—UN—22DEC16

Separator Engage

Push down and forward to lock the switch in ON position or pull back on the switch to turn OFF.

System Requirements:

- Engine must be running at the low idle.
- Road Transport Disconnect must be in field position.
- You must be seated for the separator to operate.

NOTE: Separator disengages when discharge beater speed drops below 300 rpm.

If you leave operator seat after engagement, separator rotational alarm sounds and outside lights will flash to alert operator of leaving seat while separator is still rotating. Lights and alarm sounds continue until the separator has come to a complete stop.

SS43267,000082E-19-27JAN17

Threshing Clearance Adjust



H117012—UN—28MAR16

Threshing Clearance Adjust

Increases or decreases distance between threshing elements and concave.

Procedure to Modify:

1. Press button on the Armrest to activate the Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use the Armrest Adjustment Dial to select the desired threshing clearance.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.

NOTE: Depending on machine configurations, some values may not be reached.

NOTE: Maximum value may not be attainable if dense pack elements are installed.

Minimum: 0

Maximum: 40

Increment: 1

SS43267,000082F-19-18MAY17

Threshing Speed Adjust

Increases or decreases threshing speed.



H117013—UN—28MAR16

Threshing Speed

Procedure to Modify:

1. Engage the separator and run engine at high idle.
2. Press the button on the Armrest to activate the Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

3. Use the Armrest Adjustment Dial to select the desired speed.
   - Turn the dial clockwise to increase the value.
   - Turn the dial counterclockwise to decrease the value.

NOTE: Depending on machine configurations, some values may not be reached.

Minimum: 200 rpm

Maximum: 1000 rpm

Increment: 10 rpm

SS43267,0000830-19-27JAN17

Cleaning Fan Speed Adjust

Increases or decreases cleaning fan speed.

Fan speed motor has a thermal (heat) shut off that stops the motor from working if any of the following happen:

- Switch is used continuously for more than two or three minutes.
- Adjustment system is against stop while the motor is still trying to change speed.
- Excessive binding or dragging in linkage.

If any of the above causes are suspected, clean and adjust as necessary.

NOTE: Allow motor to cool 10 to 15 minutes before trying the switch again.



H117011—UN—29MAR16

Cleaning Fan Speed Adjust

Procedure to Modify:

1. Engage the separator and run engine at high idle.
2. Press button on the armrest to activate the Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

3. Use the Armrest Adjustment Dial to select the desired speed.
   - Turn the dial clockwise to increase the value.
   - Turn the dial counterclockwise to decrease the value.

NOTE: Minimum and Maximum values may change if machine is equipped with a cleaning fan slow down Kit.

Minimum: 620 rpm

Maximum: 1350 rpm

Increment: 10 rpm

SS43267,0000831-19-27JAN17

Chaffer Adjust

Increases or decreases the amount of chaffer clearance.



H117014—UN—28MAR16

Chaffer Adjust

Procedure to Modify:

1. Press button on the armrest to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use the Armrest Adjustment Dial to select the desired clearance.
   - Turn the dial clockwise to increase the value.
   - Turn the dial counterclockwise to decrease the value.

NOTE: Depending on machine configurations, some values may not be reached.

General Purpose:

Minimum: 0

Maximum: 22

Increment: 1

Deep Tooth:

Minimum: 0

Maximum: 30

Increment: 1

SS43267,0000832-19-27JAN17

Sieve Adjust

Increases or decreases the amount of sieve clearance.



H117015—UN—28MAR16

Chaffer Adjust

Procedure to Modify:

1. Press button on the armrest to activate Armrest Adjustment Dial.



H115034—UN—28MAR16

Armrest Adjustment Dial

2. Use the Armrest Adjustment Dial to select the desired clearance.
   - Turn the dial clockwise to increase the value.

- Turn the dial counterclockwise to decrease the value.

NOTE: Depending on machine configurations, some values may not be reached.

General Purpose:

Minimum: 0

Maximum: 22

Increment: 1

Deep Tooth:

Minimum: 0

Maximum: 30

Increment: 1

SS43267,0000833-19-27JAN17

Seek



N123514—UN—22SEP16

Seek

Press to seek radio channel.

- AM/FM/WX/MW/LW: Press the switch (short press) to change preset.
- AM/FM/WX/MW/LW: Press the switch (long press) to SEEK.
- SiriusXM™ Satellite Radio: Press and hold the switch to change channel.
- MP3: Press the switch to go to the beginning of the current track, to the previous track or to the next track.

SS43267,0000834-19-02MAR18

Push Button Shift Gear (If Equipped)



H117023—UN—22DEC16

Push-Button Shift Gear

Press desired button (1, 2, or 3) to increase or decrease the machine ground speed. Selected speed indicator illuminates.

NOTE: Tire sizes and country code regulations limit maximum ground speed.

Machine must be stopped and multi-function lever moved to neutral position before selecting the desired gear.

CAUTION: Push-Button Shift Transmission: When pressing the quick stop switch with separator engaged, you are responsible for pulling back on the multi-function lever to stop the machine.

SS43267,0000835-19-27JAN17

ProDrive™ (If Equipped)



H117917—UN—22DEC16

ProDrive™

Press desired button (1 or 2) to increase or decrease the machine ground speed. Selected speed indicator illuminates.

NOTE: Tire sizes and country code regulations limit maximum ground speed. Speed can be programmed from zero to the maximum allowable ground speed.

Maximum reverse ground speed is 10 km/h (6.2 mph) and does not change when in either mode.

ProDrive™ mode 1 or 2 switches can be selected while the machine is moving.

CAUTION: ProDrive™ Machines: Pressing quick stop switch with separator engaged causes machine to slowly roll to a stop. It is always recommended to wear your seat belt to avoid serious injury.

SS43267,0000836-19-27JAN17

Road Transport Disconnect



H117022—UN—28MAR16

Road Transport Disconnect

Press the road transport disconnect button when transporting the machine on roadway. Indicator illuminates when selected.

Road transport disconnect switch prevents the following functions:

- Separator Engage
- Header Engage
- Header Raise/Lower
- Header Height Resume
- Header Height Sensing
- Lateral Tilt
- Reel Raise/Lower and Reel Fore/Aft
- Unloading Auger
- Auger Swing
- Power Folding Auger (If Equipped)
- Grain Tank Covers (If Equipped)

After transporting the machine on roadway and field operation is desired, press the road transport disconnect switch for two seconds allowing indicator light to turn OFF and allowing the desired switch functions to operate again.

SS43267,0000837-19-27JAN17

Four-Wheel Drive (If Equipped)

Controls the speed of the four-wheel drive system.

IMPORTANT: Do NOT switch four-wheel drive ON or OFF while driving machine at maximum travel speed. Decrease speed or bring machine to a stop.

Turn four-wheel drive OFF before going down steep grades.

Non-ProDrive™ Machines: In conditions that cause high pressure in the hydrostatic system and the machine slows or stops, move multi-function lever to neutral and shift transmission to a lower gear.

It is OK to switch between slow (turtle) and high (rabbit) settings while machine is in motion.



H117025—UN—28MAR16

Slow Speed

Procedure to Modify:

1. Press to turn ON when more traction is required.
2. Press to turn OFF.



H117024—UN—28MAR16

High Speed

1. Press to turn ON when higher speeds are required.
2. Press to turn OFF.

CAUTION: Non-ProDrive™ Machines: Ground speed increases when turned OFF and decreases when turned ON.

SS43267,0000838-19-27JAN17

Differential Lock (If Equipped)



H117026—UN—28MAR16

Differential Lock

Press to manually engage/disengage the differential lock to resolve traction problems in the field.

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NOTE: Differential lock does not engage when the road transport disconnect switch is ON. Differential disengages when the brake pedals are pressed.

Engagement is only possible if ground speed is below 10 km/h (6.2 mph) and automatically disengages when ground speed is above 12 km/h (7.5 mph).

SS43267,0000839-19-27JAN17

Park Brake



H117028—UN—28MAR16

Park Brake

Press to manually or automatically engage/disengage the park brake to prevent machine movement.

Automatic Mode: If the multi-function lever is in neutral position and speed is less than 1.5 km/h (1 mph), the park brake is applied. If the multi-function lever is moved out of neutral position, the park brake is released.

Manual Mode: If the multi-function lever is in neutral position and speed is less than 3.0 km/h (1.9 mph), the park brake is applied. If the multi-function lever is moved out of neutral position or speed is greater than 1.5 km/h (1 mph), an alarm sounds.

- Press the park brake button to activate the park brake. Park brake indicator on corner post illuminates indicating the park brake is engaged.
- Press the park brake button to disengage the park brake when multi-function lever is in neutral position. Park brake indicator on corner post turns OFF. Park brake is still engaged until multi-function lever is moved out of neutral position returning to automatic mode.

SS43267,000083A-19-27JAN17

Exhaust Filter Cleaning Indicator



H120319—UN—22JUN17

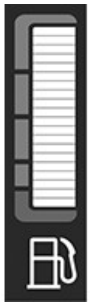
Exhaust Filter Cleaning Indicator

Exhaust Filter Cleaning Indicator illuminates when exhaust filter system is actively performing exhaust filter cleaning.

IMPORTANT: Final Tier 4/Stage V: Damage to exhaust cleaning components may occur if the engine is turned OFF while performing exhaust filter cleaning or shortly after cleaning is complete. Alarm sounds and a warning message appears on the display. Start the machine and follow messages on the display to allow the components to cool.

SS43267,0000A67-19-05MAR18

Fuel Level Indicator



H117824—UN—22DEC16

Fuel Gauge Indicator

Fuel Level Indicator indicates the amount of fuel remaining in the fuel tank.

- When the level reaches 10% of remaining fuel, fuel indicator flashes, alarm sounds, and low fluid message appears.

SS43267,000083C-19-27JAN17

Diesel Exhaust Fluid (DEF) Level Indicator



H118085—UN—22DEC16

Diesel Exhaust Fluid (DEF) Level Indicator

Diesel Exhaust Fluid (DEF) Level Indicator— indicates how much fluid is left in the tank.

- When the level reaches 10%, level indicator flashes, alarm sounds, and low fluid message appears.
- When the level reaches 0%, level indicator illuminates and stops flashing, alarm sounds, and empty fluid message and engine power limited message appears.

- When loss of prime is reached, level indicator illuminates and stops flashing. Alarm sounds and empty fluid message, engine power limited message, and speed limited message appears. Stop engine warning indicator (Red) illuminates, engine is derated and machine functions are restricted.

SS43267,000083D-19-27JAN17

Quick Stop Switch



H117033—UN—15APR16

Quick Stop Switch

Quick Stop Switch allows you to simultaneously shut OFF multiple systems in the case of an emergency.

CAUTION: ProDrive™ Machines: Pressing the quick stop switch with the separator engaged causes the machine to slowly roll to a stop. Multi-function lever must be returned to neutral position to reset the propulsion system.

Push-Button Shift Transmission or Mechanical Shift Machines: When pressing the quick stop switch with separator engaged, you are responsible for pulling back on the multi-function lever to stop the machine.

It is always recommended to wear your seat belt to avoid serious injury.

IMPORTANT: Header drive can be disengaged by this switch in case of plugging.

NOTE: Pushing unloading auger drive switch on the multi-function lever restarts the unloading auger drive. To engage header drive, turn the header engage switch OFF and back ON.

The following systems stop when Quick Stop Switch is pressed:

- Header Engage
- Unloading Auger Drive
- Unloading Auger Swing
- Grain Tank Covers (If Equipped)
- Power Folding Auger (If Equipped)
- ProDrive™ (propulsion movement slowly stops) (If Equipped)

SS43267,000083E-19-27JAN17

Unloading Auger Swing Switch



H117003—UN—22DEC16

Unloading Auger Switch

Unloading Auger Swing Switch allows you to swing unloading auger in or out manually or automatically.

System Requirements:

- Road transport disconnect switch must be in field position.
- You must be seated.

Press the top of the switch to swing out auger. Press the bottom of the switch to swing auger in.

Manual Control: Press and hold the switch part way in until auger reaches desired position. Auger stops when the switch is released.

Automatic Control: Press the switch all the way in and release it. Auger swings fully outward or inward without holding the switch.

NOTE: Automatic auger swing function does not operate when unloading auger drive is engaged. Move auger back to transport position when not in use.

SS43267,0000A65-19-13DEC17

Unloading Auger Drive Switch



H123658—UN—02MAR18

Unloading Auger Drive Switch

Unloading Auger Drive Switch allows you to engage or disengage the unloading auger.

System Requirements:

- Road transport disconnect switch must be in field position.
- You must be seated.

Press the unloading auger drive switch once to turn ON or press the unloading auger drive switch again to turn OFF. Indicator light comes ON when system is engaged.

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NOTE: Unloading auger drive can also be turned OFF with the quick stop switch in case of an emergency. To engage unloading auger if the header and unloading auger are stopped with the quick stop switch, press unloading auger switch again.

Unloading auger drive engages only when the button is held while the auger is in auto swing mode or when the auger is manually swung out greater than 50%.

If you leave the seat after engagement, the unloading auger drive will continue to operate for five seconds before disengaging. To engage the system, sit on the operator's seat and press the unloading auger switch again.

- Press the switch once to turn ON. Indicator light comes ON when the system is engaged.
- Press the switch again to turn OFF.

SS43267,0000840-19-02MAR18

AutoTrac™ Resume Button (If Equipped)



H117005—UN—15APR16

AutoTrac™ Resume Button

AutoTrac™ Resume Button allows you to activate or deactivate system.

AutoTrac™ resume button also activates or deactivates RowSense™ system. Refer to the AutoTrac™ Operator's Manual for further information.

System Requirements:

- Engine is running.
- Road transport disconnect switch must be in field position.
- Header switch is engaged.
- Operator in seat.

Press to engage system. Press again to disengage.

SS43267,0000841-19-27JAN17

Header Raise Lower and Tilt (If Equipped) Switch



H116348—UN—19DEC16

Header Raise/Lower Switch

Header Raise/Lower and Tilt Switch allows you to raise or lower header and tilt the feeder house.

System Requirements:

- Road transport disconnect switch must be in field position.
- You must be seated.

Press and hold the top of the switch to raise header.

Press and hold the bottom of the switch to lower header.

NOTE: Header raise/lower switch has two detent positions. Pushing part way in on the switch causes the header to raise or lower slowly. Header raises or lowers at a faster rate when the switch is pressed in all the way.

Press and hold left-hand side or right-hand side of switch to tilt feeder house.

SS43267,0000842-19-27JAN17

Reel Raise and Lower and Reel Fore and Aft (If Equipped)



H116349—UN—19DEC16

Reel Raise/Lower, Reel Fore/Aft

Reel Raise/Lower, Reel Fore/Aft Switch allows you to control the position of the reel.

Using the switch to raise/lower the reel and to move the reel fore/aft (if equipped):

- Press and hold the top of the switch to raise reel.
- Press and hold the bottom of the switch to lower reel.
- Press and hold the left side of the switch to extend reel forward.

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- Press and hold the right side of the switch to retract reel reward.

SS43267,0000843-19-27JAN17

Feeder House Backshaft Speed and Adjustable Corn Head Deck Plates (If Equipped)



H116349—UN—19DEC16

Feeder House Backshaft Speed, Adjustable Corn Head Deck Plates

Feeder House Backshaft Speed, Adjustable Corn Head Deck Plates Switch allows you to control the feeder house backshaft speed or the adjustable corn head deck plates.

Using the switch to adjust backshaft speed and adjustable corn head deck plates (if equipped):

- Press the top of the switch to increase backshaft speed.
- Press the bottom of the switch to decrease backshaft speed.
- Press the left or right side of the switch once to activate display.
- Press the left side of the switch to increase deck plate spacing.
- Press the right side of the switch to decrease deck plate spacing.

SS43267,0000844-19-27JAN17

Header Activation Buttons



H116346—UN—19DEC16

Header Activation Buttons

Header Activation Buttons allow you to activate the following by pressing one of the three buttons.

NOTE: Header positions obtained by pressing the activation buttons may be overcome by pressing reel raise/lower or reel fore/aft switch or header raise/lower and lateral tilt switch. Once the activation buttons are manually overcome, press the desired activation button to reactivate.

System Requirements:

- Properly equipped header is connected.
- Engine is running.
- Road transport disconnect switch must be in field position.
- Header Height Resume, Header Height Sensing, or Active Header Float mode are enabled.
- Header is engaged.

Pressing the header activation buttons activates the system. Header control system takes control and moves the header to your selected position.

- Header Height Resume
- Header Height Sensing
- Lateral Tilt Control
- Reel Position Resume
- Deck Plate Position Resume
- Active Header Float
- Hydraulic Feeder House Fore/Aft Tilt (If Equipped)

SS43267,0000A38-19-18MAY17

Active Terrain Adjustment™

Access Active Terrain Adjustment™



H113668—UN—22OCT15

Menu

Access Application Through Display:

1. Menu



N119118—UN—23SEP16

Machine Settings

2. Machine Settings tab



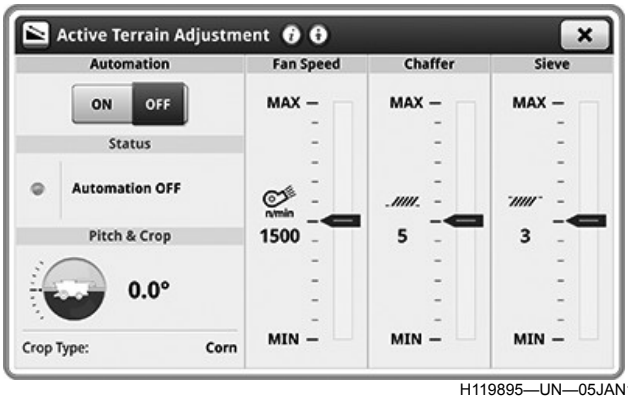
H114642—UN—05JAN17

Active Terrain Adjustment™

3. Active Terrain Adjustment™

SS43267,00008A9-19-27JAN17

Active Terrain Adjustment™ Main Page



H119895—UN—05JAN17

Active Terrain Adjustment™

NOTE: Underscored text identifies that additional information is available within this section or another section of this publication.

Main page shown is for example only. Your main page may differ depending on options or connected equipment.

ATA allows cleaning fan, chaffer, and sieve to adjust automatically depending on the crop type and machine pitch when harvesting in uphill or downhill terrain.

Active Terrain Adjustment is a trademark of Deere & Company



H114647—UN—05JAN17

ON/OFF

Items Accessible on Active Terrain Adjustment™ Main Page:

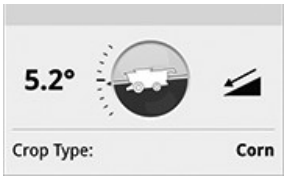
Automation— enables ATA.



H114656—UN—05JAN17

Status Indicator

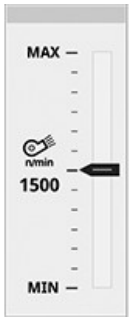
Status— displays overall system status or current adjustments being made by the system.



H115025—UN—05JAN17

Pitch & Crop

Pitch and Crop— displays current measured machine pitch and selected crop.



H115026—UN—06JAN17

Fan Speed

Fan Speed— indicator shows the current fan speed.



H115027—UN—06JAN17

Chaffer

Chaffer— indicator shows the current chaffer position.



H115028—UN—06JAN17

Sieve

Sieve— indicator shows current sieve position.



N118004—UN—22OCT15

Advanced Settings

Advanced Settings— access further settings and less common adjustments.



H114648—UN—05JAN17

Active Terrain

Run Page Modules

Modules for this application can be added to run pages using Layout Manager.

Example:

Active Terrain— allows you to enable/disable automation and see the current Pitch state of the machine as detected by ATA.

NOTE: Different modules can be available for your application.

SS43267,0000810-19-27JAN17

Active Terrain Adjustment™ (ATA) Status



H115029—UN—05JAN17

Status

Active Terrain Adjustment™ (ATA) Status shows the requirements for ATA automation.

Select screen area under Status to open ATA Status page.



H114659—UN—05JAN17

Blue

Items Displayed on Active Terrain Adjustment™ Status Page:

Applying Offsets— accommodating for terrain.



H114656—UN—05JAN17

Green

Monitoring



H114658—UN—05JAN17

Amber

Not Ready— pitch sensor requires calibration.



H114658—UN—05JAN17

Amber

Not Ready— header must be below record stop height.



H114658—UN—05JAN17

Amber

Not Ready— machine must be ready to harvest.

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H114658—UN—05JAN17

Amber

Not Ready— engine must be set to high idle.



H114657—UN—05JAN17

Red

Error Detected— attention required.



H114657—UN—05JAN17

Red

Error Detected— fan system fault present.



H114655—UN—05JAN17

Gray

Automation OFF

Active Terrain Adjustment™ Requirements:

- ATA automation must be ON.
- Machine must be ready to harvest:
  - — Separator must be engaged.
  - — Header must be engaged.
  - — Engine must be set to high idle.
  - — Road Mode must not be enabled.
- Header must be below record stop height.



H114663—UN—05JAN17

Message

A message appears when a requirement is not met.



H118541—UN—30JAN17

Select to Advance

Requirement not met, select to calibrate the pitch sensor.



H114662—UN—05JAN17

Checkmark

Once a condition has been met a green checkmark appears.



H114674—UN—03JAN17

Close

Select to close.

SS43267,00008AA-19-18MAY17

Automatic Adjustment

When Automatic Adjustment is enabled, Active Terrain Adjustment™ (ATA) maintains material capacity by reducing fan speed and opening chaffer and sieve elements to reduce grain loss and elevated tailings when traveling uphill. The opposite occurs when traveling downhill to avoid degraded grain tank cleanliness.



H118540—UN—05JAN17

Status

Automatic Adjustment Indicators Displayed:

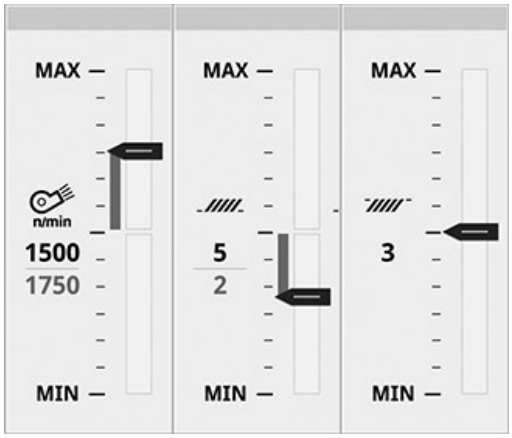
Status— displays that the system is applying offsets.



H115033—UN—05JAN17

Black Marker

Active Terrain Adjustment is a trademark of Deere & Company



H114664—UN—05JAN17

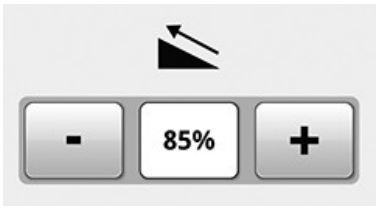
ATA Adjustment

ATA Adjustment— indicator shows the amount of offset for fan speed, chaffer, and sieve from the initial setpoint.

SS43267,00008AB-19-27JAN17

Advanced Settings

Advanced Settings allows you to access further adjustments and less common settings.

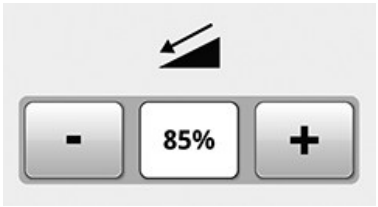


H114667—UN—05JAN17

Uphill Sensitivity

Items Accessible on Advanced Settings Page:

Uphill Sensitivity— accelerates or decelerates system's reaction to vehicle pitch while harvesting uphill to help reduce grain loss and tailings.



H114668—UN—05JAN17

Downhill Sensitivity

Downhill Sensitivity— accelerates or decelerates system's reaction to vehicle pitch while harvesting downhill to help maintain harvested grain cleanliness.



H119126—UN—05JAN17

Adjustment Triggers

Adjustment Triggers— desired step size value, and enable or disable chaffer and sieve auto adjust.

SS43267,00008AC-19-18MAY17

Advanced Settings | Uphill Sensitivity

Uphill Sensitivity allows you to accelerate or decelerate system reaction to vehicle pitch to help reduce grain loss and tailings while traveling uphill.

NOTE: Higher sensitivity values react more quickly to changes in pitch.

Modify When:

- Active Terrain Adjustment™ (ATA) system is making adjustments too soon or too late, causing grain loss or tailings to be higher than on level land.
- Adjust the sensitivity lower if grain tank is not clean.
- Adjust the sensitivity higher if cleaning shoe loss or tailings levels are elevated.

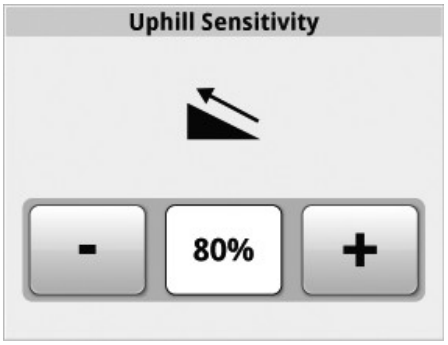


N118004—UN—22OCT15

Advanced Settings

Procedure to Modify:

1. Select Advanced Settings button.



H119777—UN—05JAN17

Uphill Sensitivity

2. Select plus (+) to increase or minus (-) to decrease desired sensitivity.

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Minimum: -100%

Maximum: 100%

Increment: 10%



H114653—UN—05JAN17

Offsets

Current offsets displayed for fan/chaffer/sieve from the initial setpoint. Offsets displayed change as machine moves uphill or downhill.



H114674—UN—03JAN17

Close

3. Select to close.



N118004—UN—22OCT15

Advanced Settings

Alternative Procedure to Modify:

1. Select Advanced Settings button.



H114652—UN—05JAN17

Value

2. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

3. Use Navigation Bar or Armrest Adjustment Dial to select desired sensitivity.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.



H114674—UN—03JAN17

Close

4. Select to close.

SS43267,00008AD-19-27JAN17

Advanced Settings | Downhill Sensitivity

Downhill Sensitivity allows you to accelerate or decelerate system reaction to vehicle pitch to help maintain grain cleanliness while harvesting downhill.

NOTE: Higher sensitivity values react more quickly to changes in pitch.

Modify When:

- Active Terrain Adjustment™ (ATA) system is making adjustments too soon or too late, causing grain loss or tailings to be higher than on level land.
- Adjust the sensitivity lower if cleaning shoe loss or tailings levels are elevated.
- Adjust the sensitivity higher if grain tank is not clean.

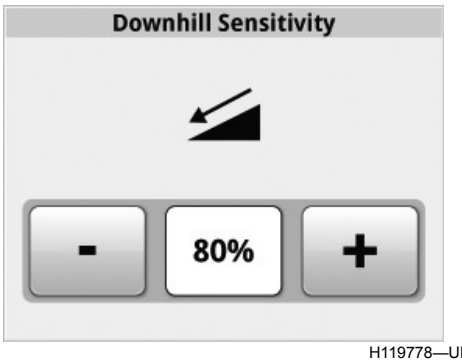


N118004—UN—22OCT15

Advanced Settings

Procedure to Modify:

1. Select Advanced Settings button.



H119778—UN—05JAN17

Downhill Sensitivity

2. Select plus (+) to increase or minus (-) to decrease desired sensitivity.

   Minimum: -100%

   Maximum: 100%

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Increment: 10%



H114653—UN—05JAN17

Offsets

Current offsets displayed for fan/chaffer/sieve from the initial setpoint. Offsets displayed change as machine moves uphill or downhill.



H114674—UN—03JAN17

Close

3. Select to close.



N118004—UN—22OCT15

Advanced Settings

Alternative Procedure to Modify:

1. Select Advanced Settings button.



H114652—UN—05JAN17

Value

2. Select to activate Navigation Bar and Armrest Adjustment Dials.



H115035—UN—14MAR16

Navigation Bar Adjustment Dial



H115034—UN—28MAR16

Armrest Adjustment Dial

3. Use Navigation Bar or Armrest Adjustment Dial to select desired sensitivity.
   - Turn dial clockwise to increase value.
   - Turn dial counterclockwise to decrease value.



H114674—UN—03JAN17

Close

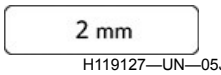
4. Select to close.

SS43267,00008AE-19-27JAN17

Advanced Settings | Adjustment Triggers

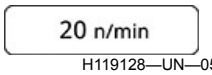
Adjustment Triggers allow you to select desired cleaning fan, sieve, and chaffer step sizes the system adjusts to when harvesting in uphill and downhill terrain. It also allows you to turn automatic adjustment feature for sieve or chaffer off.

NOTE: Typically these are only used in localized small grain conditions with special harvest requirements. Use when sensitivity adjustments are ineffective.



H119127—UN—05JAN17

Chaffer/Sieve



H119128—UN—05JAN17

Fan Speed

Items Accessible on Adjustment Trigger Page:

Auto Adjustment Step Size— amount of incremental change to the chaffer, sieve, or fan speed when commanded by the Active Terrain Adjustment™ (ATA) system.



H114647—UN—05JAN17

ON/OFF

Auto Adjustment On/Off— turns automatic adjustment feature for chaffer or sieve on or off.

SS43267,00008AF-19-27JAN17

Advanced Settings | Adjustment Triggers | Auto Adjustment Step Size

Step Size is the amount of incremental change to either the chaffer, sieve, or fan speed when commanded by the Active Terrain Adjustment™ (ATA) system.

Modify When:

NOTE: Adjust the step sizes if sensitivity adjustments or feature selections (individual component adjustment ON/OFF) are ineffective.

Increasing step size:

When maximum sensitivity setting is not achieving

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desired results, or when all but one component needs more adjustment than the others.

Decreasing step size:

When minimum sensitivity setting is not achieving desired results, or when all but one component needs less adjustment than the others.

NOTE: Step sizes are individual increments not the total range of the adjustments or number of adjustments.



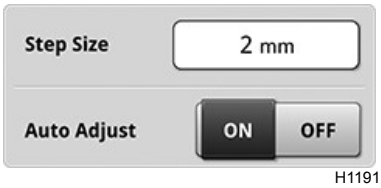
N118004—UN—22OCT15

Advanced Settings

Procedure to Modify:

Chaffer and Sieve

1. Select Advanced Settings button.
2. Scroll to Adjustment Triggers.



H119126—UN—05JAN17

Step Size



H114645—UN—05JAN17

Chaffer



H114646—UN—05JAN17

Sieve

3. Select Step Size to open number pad and enter desired value.

   Minimum: 1 mm

   Default: Based on crop being harvested.

   Maximum: 3 mm

   Increment: 1 mm



H114674—UN—03JAN17

Close

4. Select to close.

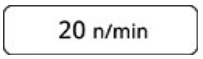


N118004—UN—22OCT15

Advanced Settings

Fan Speed

1. Select Advanced Settings button.
2. Scroll to Adjustment Triggers.



H119128—UN—05JAN17

Step Size

3. Select to open Step Size page.



H118542—UN—05JAN17

Step Size



H114644—UN—05JAN17

Fan Speed

4. Select desired value.

   Minimum: 20 rpm

   Default: Based on crop being harvested.

   Maximum: 50 rpm

   Increment: 10 rpm



H114674—UN—03JAN17

Close

5. Select to close.

SS43267,00008B0-19-27JAN17

Advanced Settings | Adjustment Triggers | Auto Adjustment On/Off

Turn automatic adjustment feature for chaffer and sieve on or off.

Modify When:

Chaffer OFF (Cleaning Fan and Sieve ON):

Elevated chaff loads cause high chaff in tailings during uphill adjustments.

Sticks in grain tank are noticed during uphill adjustments.

Sieve OFF (Cleaning Fan and Chaffer ON):

Elevated grain in tailings occurs only during downhill adjustments.

Chaffer and Sieve OFF (Cleaning Fan ON):

Low yield small grains or small seed size (canola) where tank sample is sensitive to sieve and chaffer adjustments.

NOTE: Shutting off the sieve and or chaffer may help with grain tank quality or tailings, but reduce the effectiveness against grain loss.



N118004—UN—22OCT15

Advanced Settings

Procedure to Modify:

1. Select Advanced Settings button.
2. Scroll to Adjustment Triggers.



H114647—UN—05JAN17

ON/OFF

3. Select to enable or disable sieve or chaffer auto adjustment.



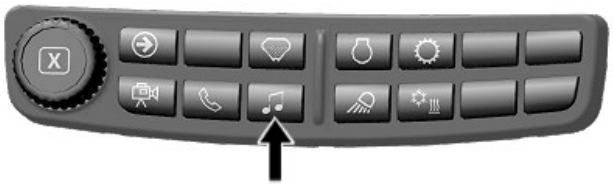
H114674—UN—03JAN17

Close

4. Select to close.

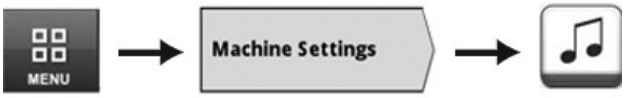
SS43267,00008B1-19-27JAN17

Select Radio Source with Generation 4 CommandCenter™



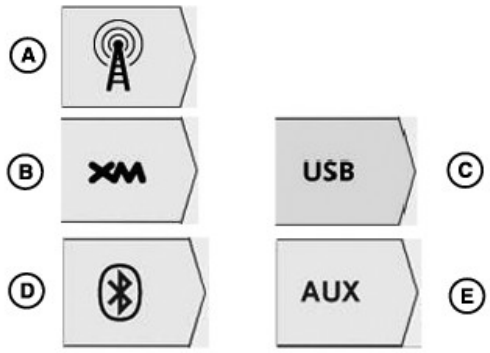
N119223—UN—24JUL15

Audio Shortcut Button on Navigation Bar



RXA0147929—UN—13APR15

Menu → Machine Settings Tab → Audio Icon



N137625—UN—07JUN18

Source Select Tabs

A—FM, AM, and Weather Tab
B—XM Tab (Premium Radio Only)
C—USB Tab (Premium Radio Only)
D—Bluetooth® Audio Tab (Premium Radio Only)
E—Auxiliary Tab

Use radio source tabs on Generation 4 CommandCenter™ to select radio source.

When radio is on, radio page navigates to home page of current source selected. When radio is off, content blocker displays.

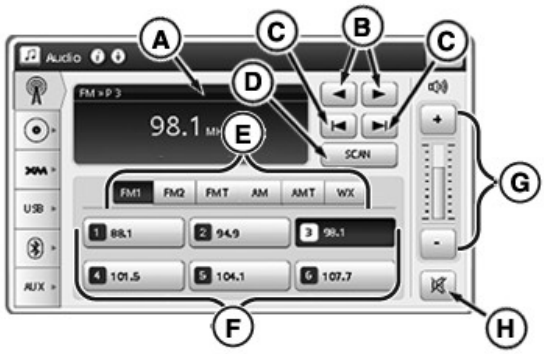
NOTE: Selecting radio source will not turn radio on. Turn radio ON by pressing ON/OFF button on radio faceplate.

To access audio main page, use Audio Shortcut Button on Navigation Bar or follow alternative path:

1. Select **Menu.**
2. Select **Machine Settings tab.**
3. Select **Audio icon.**
4. Select desired radio source.

CS12167,0000B70-19-07JUN18

AM, FM, Weather Channel Home Page



RXA0150912—UN—08JAN16

AM, FM, Weather Channel Home Page

NOTE: Refer to Select Radio Source with Generation 4 CommandCenter™ in this section of this Operator's Manual, to learn how to navigate to AM, FM, Weather Channel home page.

A—Display Area: Displays current radio activity/ information.

B—Manually Tune Forward/Back: Use left or right button to manually tune in desired station. Each time button is pressed, radio frequency increases or decreases by standard increment.

C—Next/Previous Station: Select to seek next available station before or after current station.

D—Scan Button: Select to cycle through available stations. Each station broadcasts for 5 seconds before moving to next station. Cycle will end if returns to original station or by selecting button again.

E—AM/FM/Weather Button Bar: Cycle through channel presets using toggle bar (FM1, FM2, FMT, AM, AMT, WX).

F—Presets: Six presets can be programmed to FM1, FM2, FMT, AM and AMT banks. To change presets, press preset for 3 seconds, while on desired station, until "beep" sounds. Press again to tune radio to saved station. Six presets are pre-programed into WX bank and cannot be changed. FMT and AMT banks can be set automatically using T-STORE function. For more information, see Use Premium Radio in this section of this Operator's Manual.

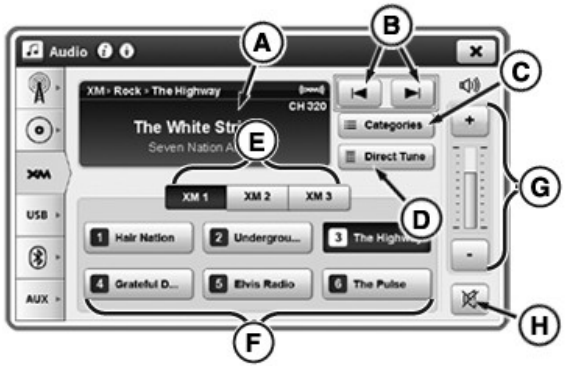
G—Volume Adjustment: Adjust volume.

Bluetooth is a trademark of Bluetooth SIG
CommandCenter is a trademark of Deere & Company

H—Mute: Silence sound.

TO84419,0000087-19-11JAN16

Premium Radio XM Home Page



RXA0132502—UN—28JUN13

XM Home Page

NOTE: Refer to Select Radio Source with Generation 4 CommandCenter™ in this section of this Operator's Manual, to learn how to navigate to XM home page.

A—Display Area: Displays XM activity/information.

B—Next/Previous Station: Select to seek next available station before or after current station.

C—(CAT) Category Mode: Select to launch category search mode. Scroll up or down through categories and select station within category.

D—Direct Tune: Select to enter desired channel with keypad.

E—XM Channel Bank: Toggle through banks using buttons (XM1, XM2, XM3).

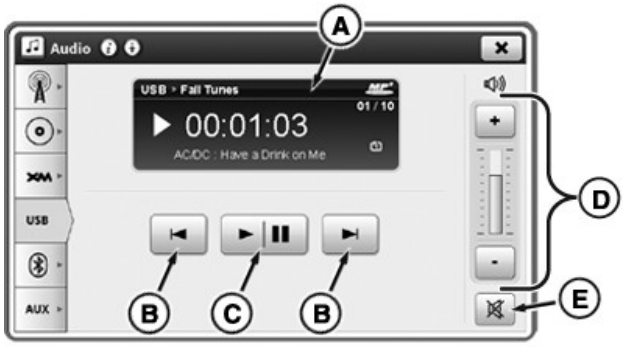
F—Presets: Six presets can be programmed per bank. To set, press and hold desired preset for at least three seconds.

G—Volume Adjustment: Adjust volume.

H—Mute: Silence sound.

TO84419,0000089-19-09OCT15

Premium Radio USB Home Page



RXA0132516—UN—28JUN13

USB Home Page

NOTE: Refer to Select Radio Source with Generation 4 CommandCenter™ in this section of this Operator's Manual, to learn how to navigate to USB home page.

Connect USB using USB input, located on right-hand console/storage tray, to play stored music. For more information, refer to External Sources (Premium Radio) page in the section of this Operator's Manual.

A—Display Area: Displays current USB activity/information.

B—Next/Previous Track: Select to skip back to beginning of current track or ahead to beginning of next track. Press previous button twice to skip to previous track.

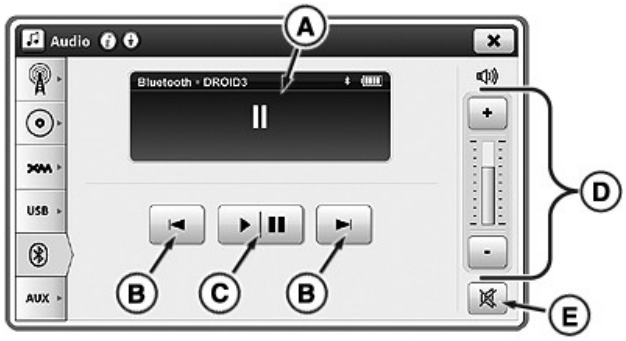
C—Play/Pause: Play or pause track.

D—Volume Controls: Adjust volume.

E—Mute: Silence sound.

TO84419,000008A-19-09OCT15

Premium Radio Bluetooth® Home Page (If Equipped)



RXA0132504—UN—28JUN13

Bluetooth

CommandCenter is a trademark of Deere & Company

NOTE: Refer to Select Radio Source with Generation 4 CommandCenter™ in this section of this Operator's Manual, to learn how to navigate to Bluetooth® home page.

Connect Bluetooth® enabled device to play stored music.

Radio system is equipped with Bluetooth®, which allows data transfer between radio system and paired close-range Bluetooth® device such as cell phone. Music stored on device does not transfer to CommandCenter™

A—Display Area: Displays current Bluetooth® activity/information.

B—Next/Previous Track: Skip back to beginning or ahead to beginning of next track. Press previous button twice to skip to previous track.

C—Play/Pause: Play or pause track.

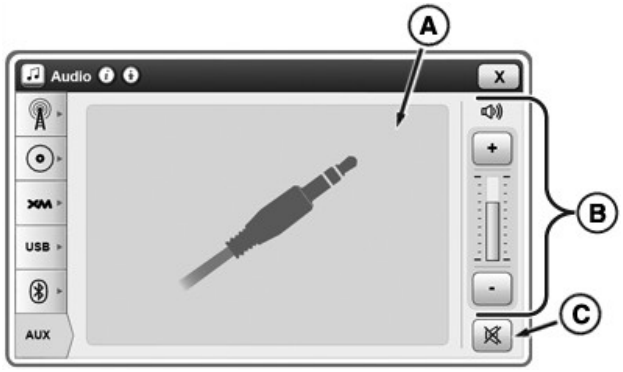
NOTE: Not all devices support pause function. Devices may mute sound, but not pause play.

D—Volume Adjustment: Adjust volume.

E—Mute: Silence sound.

TO84419,000008B-19-10JUL14

Auxiliary Home Page



RXA0129971—UN—07DEC12

Auxiliary Home Page

NOTE: Refer to Select Radio Source with Generation 4 CommandCenter™ in this section of this Operator's Manual, to learn how to navigate to Auxiliary home page.

Connect external audio source to listen to stored music (see External Sources (Premium Radio) of this section of this Operator's Manual).

A—Display Area: Displays image shown. Activity/information displays on external device only, not on CommandCenter™ display.

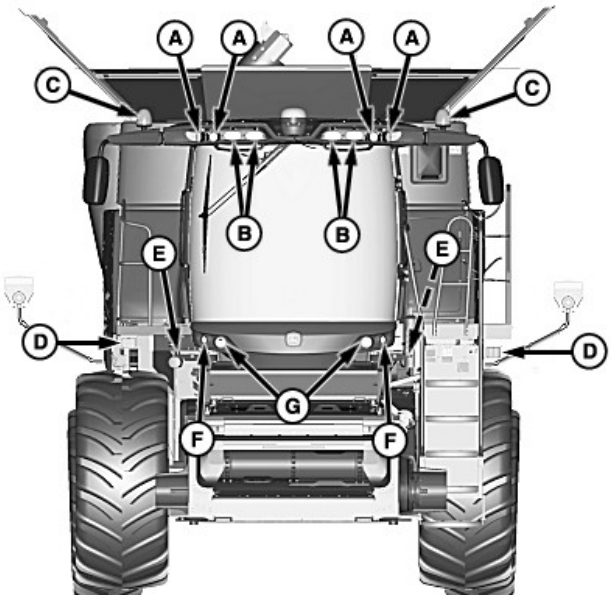
B—Volume Adjustment: Adjust volume.

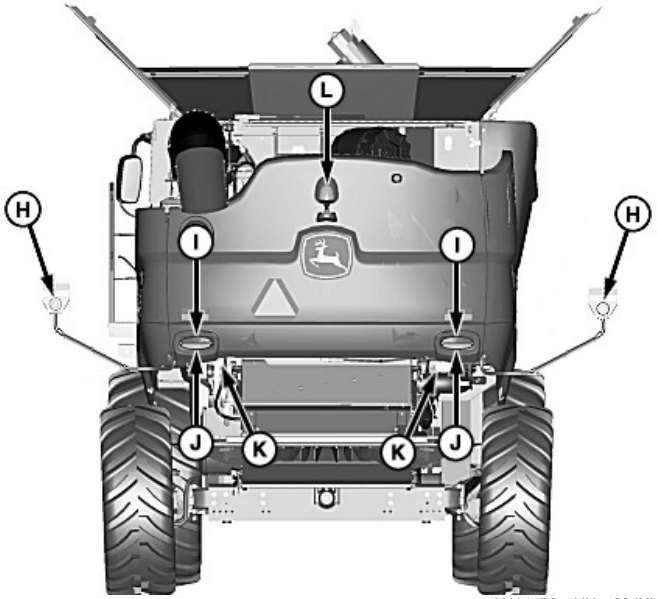
C—Mute: Silence sound.

TO84419,000008C-19-10JUL14

CommandCenter is a trademark of Deere & Company
Bluetooth is a trademark of Bluetooth SIG

Lighting Locations (Front and Rear View Lights)





H114479—UN—08JUN15

A—Halogen Cab Headlights or Light Emitting Diode (LED) (Optional) Cab Headlights
B—Cab Headlights (High/Low Beam)
C—Beacon Lights
D—Marker/Hazard Lights
E—Stubble Lights
F—Fascia Lights (if equipped)
G—Lower Driving Lights (if equipped)
H—Rear Hazard Lights
I—Rear Hazard Lights
J—Marker/Brake Lights
K—Rear Discharge Lights
L—Beacon Light

Beacon Lights

CAUTION: Lights must be turned ON when transporting. Swing cab ladder forward to orient marker/hazard light towards oncoming motorists.

- Controls beacon lights (C, L).
- Two beacon lights are at the front (left and right) and one at the rear of the machine. These lights warn other drivers when transporting on roadways.

Hazard Lights

CAUTION: Lights must be turned ON when transporting. Swing cab ladder forward to orient marker/hazard light towards oncoming motorists.

- Controls beacon lights (C, L), marker/hazard lights (D), rear hazard lights (H, I), cab headlights (B), and marker/brake lights (J) (if engine is running).
- Hazard lights are on both sides of the machine at front and rear. These lights warn other drivers when transporting on roadways.

Road Lights

CAUTION: Lights must be turned ON when transporting. Swing cab ladder forward to orient marker/hazard light towards oncoming motorists.

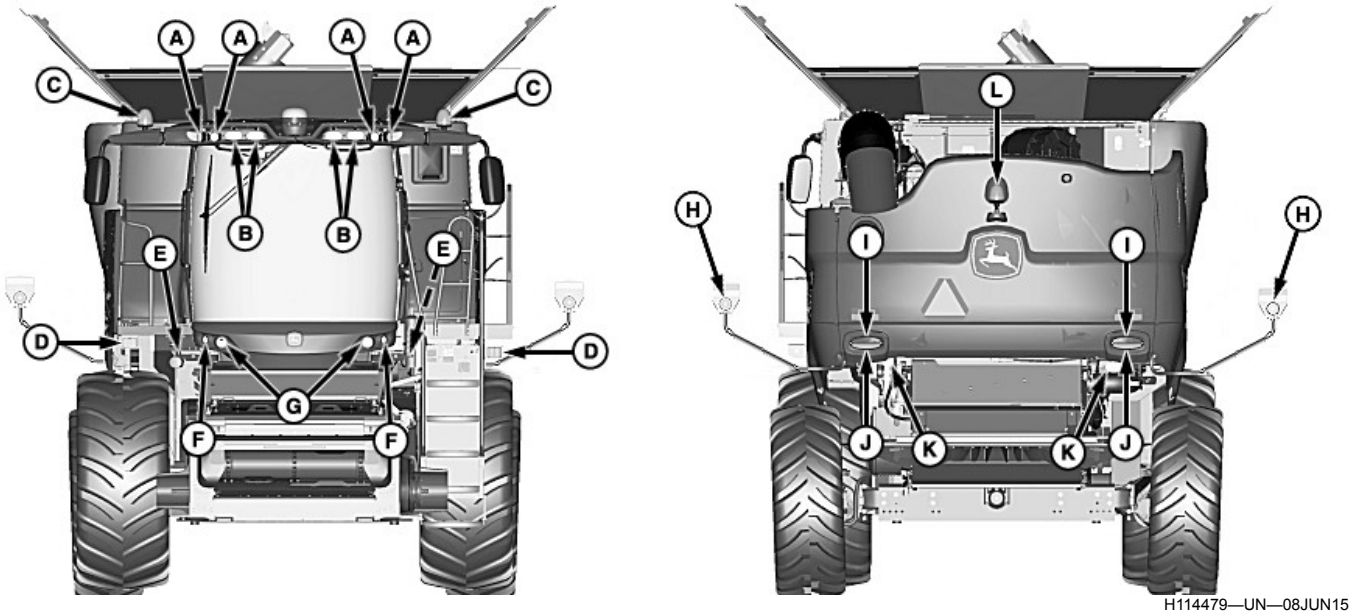
NOTE: When road lights are ON and no header is connected, lower driving lights turn ON and cab headlights turn OFF. When a header is connected, lower driving lights turn OFF and cab headlights turn ON.

Hazard lights turn ON if turn signals are OFF. If turn signals are ON, hazard lights function as turn signal lights.

- Controls beacon lights (C, L), cab headlights (B), marker/hazard lights (D), rear hazard lights (H, I), lower driving lights (G), and marker/brake lights (J).
- Beacon lights and hazard lights warn to other drivers when transporting on roadways.

OUO6075,00049B2-19-31MAY18

Lighting Locations (Front and Rear View Lights Continued)



H114479—UN—08JUN15

A—Halogen Cab Headlights or Light Emitting Diode (LED) (Optional) Cab Headlights
B—Cab Headlights (High/Low Beam)
C—Beacon Lights
D—Marker/Hazard Lights
E—Stubble Lights
F—Fascia Lights (if equipped)
G—Lower Driving Lights (if equipped)
H—Rear Hazard Lights
I—Rear Hazard Lights
J—Marker/Brake Lights
K—Rear Discharge Lights
L—Beacon Light

Auto Beacon Lights

NOTE: When auto beacon lights are activated and grain reaches the 3/4 full sensor, the beacon lights start to flash (3 seconds ON and 6 seconds OFF). When grain reaches the grain tank full sensor, the beacon lights turn ON steady and will not flash.

- Beacon lights (C, L) illuminate when grain tank is 3/4 full. Beacons provide a signal to the grain cart operator that grain tank is full and is ready to be unloaded.

Field Lights

- Controls marker/brake lights (J), and cab headlights (A, B).
- Field lights provide operator with area lighting for operation at night and during low light conditions.

Front Stubble Lights

CAUTION: To avoid motorist confusion, do not operate work lights when transporting on public roadways.

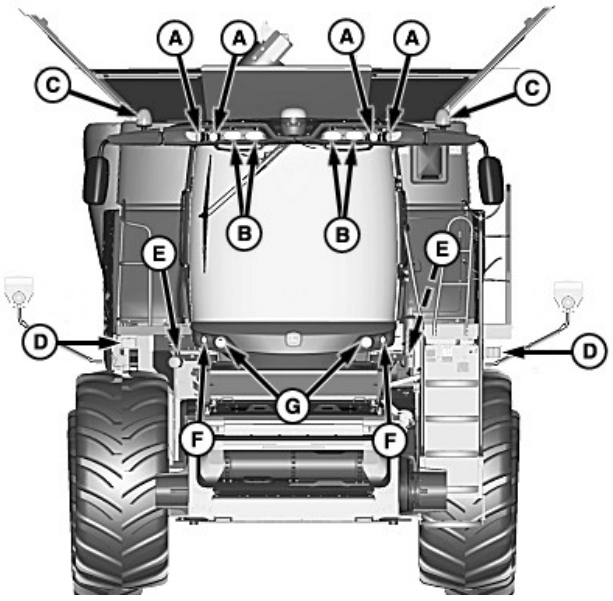
NOTE: If operator leaves seat after separator is engaged, front stubble lights flash and will continue to flash until separator speed reaches zero.

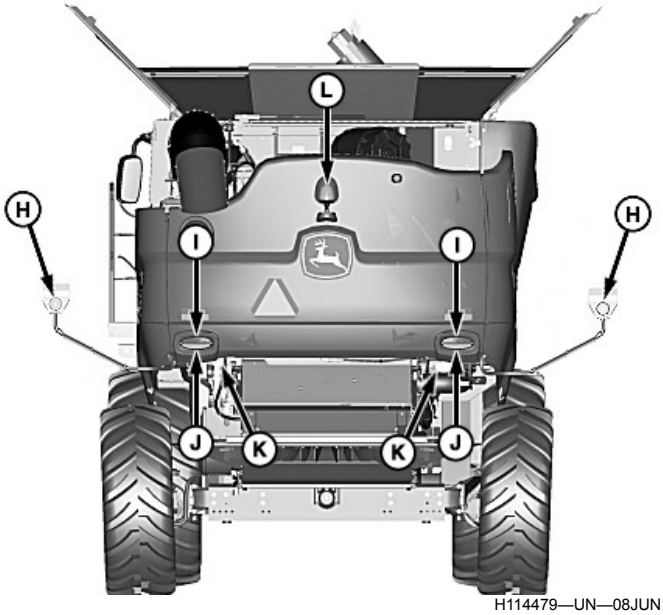
- Controls stubble lights (E) and fascia lights (F).
- Stubble lights provide operator with more lighting behind header for night operation and low light conditions.[1]
- Fascia lights provide operator with more lighting at the front of the machine during harvest.

OUO6075,00049B3-19-01JUN18

[1] *If road lights are ON and machine is in Road Mode, stubble lights, fascia lights, and rear discharge lights cannot be turned ON.*

Lighting Locations (Front and Rear View Lights Continued)





H114479—UN—08JUN15

A—Halogen Cab Headlights or Light Emitting Diode (LED) (Optional) Cab Headlights
B—Cab Headlights (High/Low Beam)
C—Beacon Lights
D—Marker/Hazard Lights
E—Stubble Lights
F—Fascia Lights (if equipped)
G—Lower Driving Lights (if equipped)
H—Rear Hazard Lights
I—Rear Hazard Lights
J—Marker/Brake Lights
K—Rear Discharge Lights
L—Beacon Light

Rear Discharge Lights

CAUTION: To avoid motorist confusion, do not operate work lights when transporting on public roadways.

NOTE: If operator leaves seat after separator is engaged, rear discharge lights flash and will continue to flash until separator speed reaches zero.

- Controls rear discharge lights (K).
- Rear discharge lights provide operator with rear area lighting for night operation and low light conditions.[2]

Marker/Brake Lights

- Marker/Brake lights (J) come ON when machine senses a deceleration. Lights stay on for a minimum of 2 seconds.
- Once speed is less than 1.6 km/h (1 mph), brake lights stay on for 2 minutes or until forward acceleration is sensed and speed is greater than 1.6 km/h (1 mph).
- Marker lights also act as turn indicators, and illuminate when a turn is signaled. Light in direction of turn flashes, while opposite light stays on (not flashing).

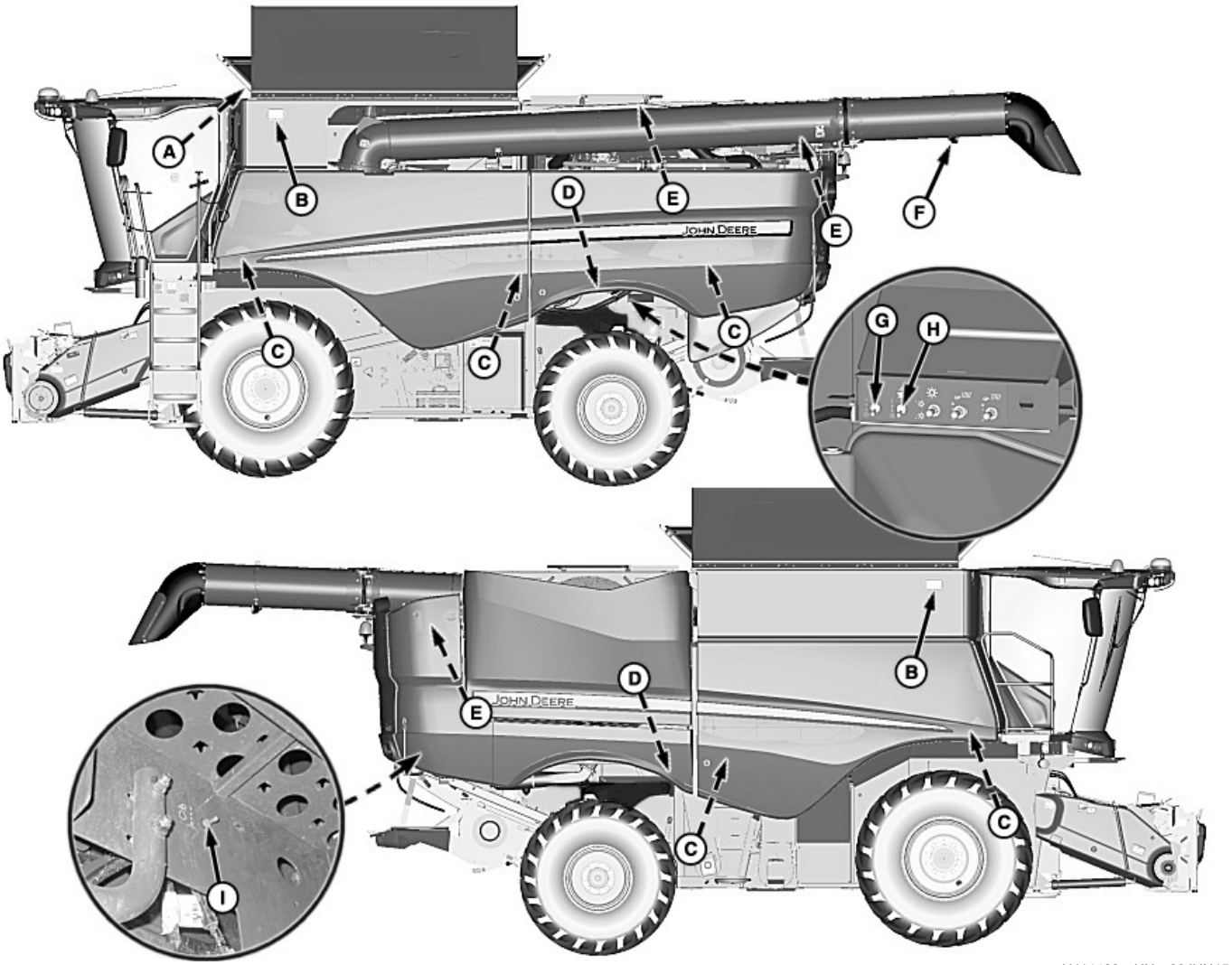
Exit Lighting

- Two outermost cab headlights (B) remain on for a maximum of 180 seconds after key switch and light switch are turned OFF (if road or field lights were in use within the previous 5 minutes).

OUO6075,00049B4-19-01JUN18

[2] *If road lights are ON and machine is in Road Mode, stubble lights, fascia lights, and rear discharge lights cannot be turned ON.*

Lighting Locations (Left and Right Side View Lights)



H114480—UN—08JUN15

A—Grain Tank Light
B—Row Finder Lights
C—Gull Wing Service Lights
D—Shoe Service Lights
E—Engine Compartment Service Lights
F—Unloading Auger Light
G—Shoe Service Light Switch
H—Gull Wing Service Lights Switch
I—Engine Compartment Service Lights Switch

Field Lights

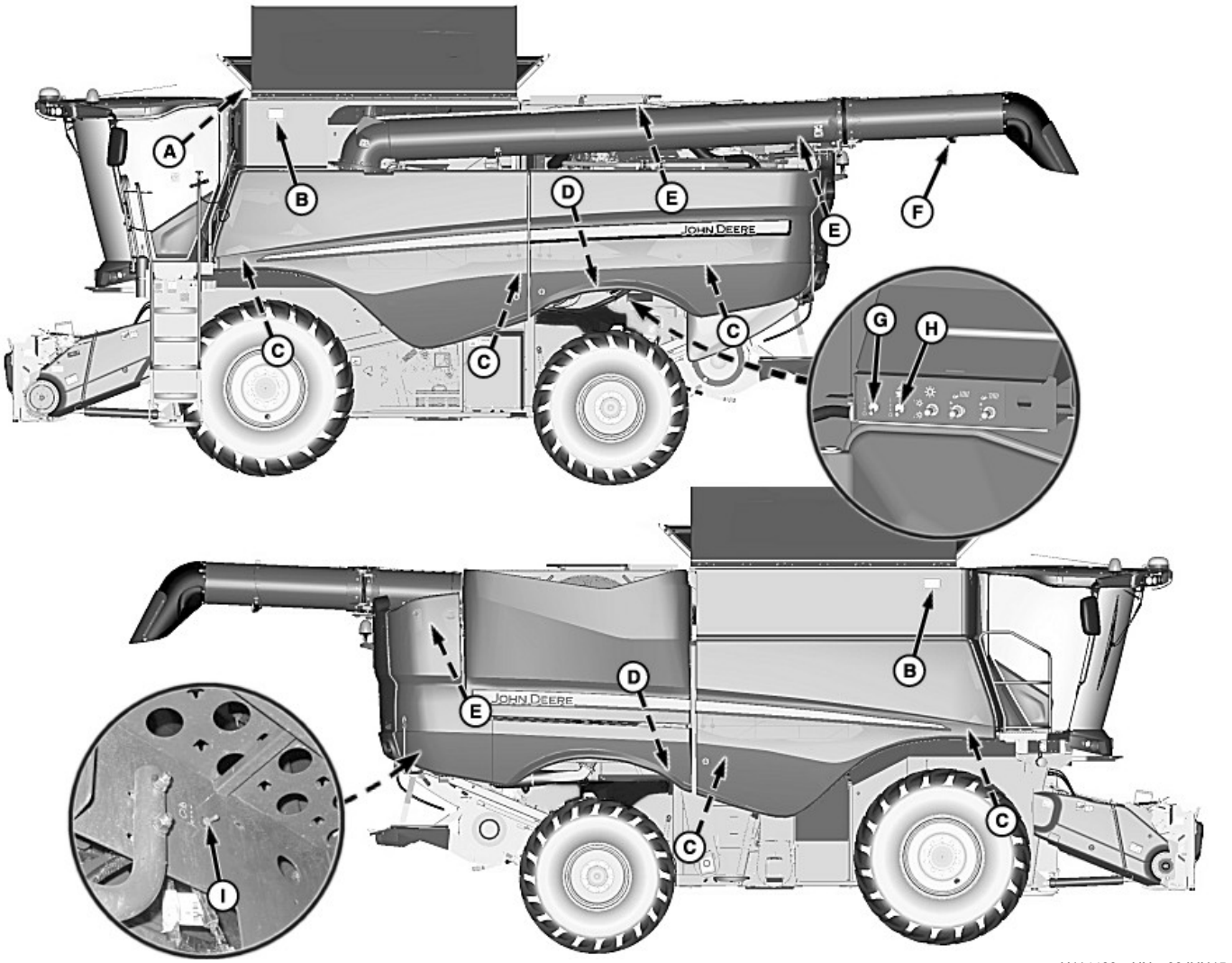
- Controls grain tank light (A), row finder lights (B) (with the turn signal lever), unloading auger light (F), and marker/hazard lights.
- Row finder lights provide operator with area lighting on each side of the machine for night operation and low light conditions.

NOTE: With Field Lights ON, use turn signal lever to actuate either right or left side row finder light. Leaving signal lever in neutral position allows both sides to be ON.

- Grain tank light provides operator with lighting in the grain tank for night operation and low light conditions.
- Unloading auger light comes ON when the auger is extended more than 50% with field light switch ON.
- Unloading auger light provides lighting for unloading grain tank at night or low light conditions.

OUO6075,00049B5-19-31MAY18

Lighting Locations (Left and Right Side View Lights Continued)



H114480—UN—08JUN15

A—Grain Tank Light
B—Row Finder Lights
C—Gull Wing Service Lights
D—Shoe Service Lights
E—Engine Compartment Service Lights
F—Unloading Auger Light
G—Shoe Service Light Switch
H—Gull Wing Service Lights Switch
I—Engine Compartment Service Lights Switch

Shoe Service Lights

NOTE: If operator leaves seat after separator is engaged, shoe service lights flash and will continue to flash until separator speed reaches zero.

- Shoe service lights (D) provide operator with lighting for cleaning shoe adjustment at night or low light conditions.
- Shoe service lights ON/OFF switch (G) is located above the left-hand separator shield.
- Illuminates during maintenance and service operations (not during harvest).

Gull Wing Service Lights (Optional)

CAUTION: Avoid motorist confusion. Do not operate gull wing service lights when transporting.

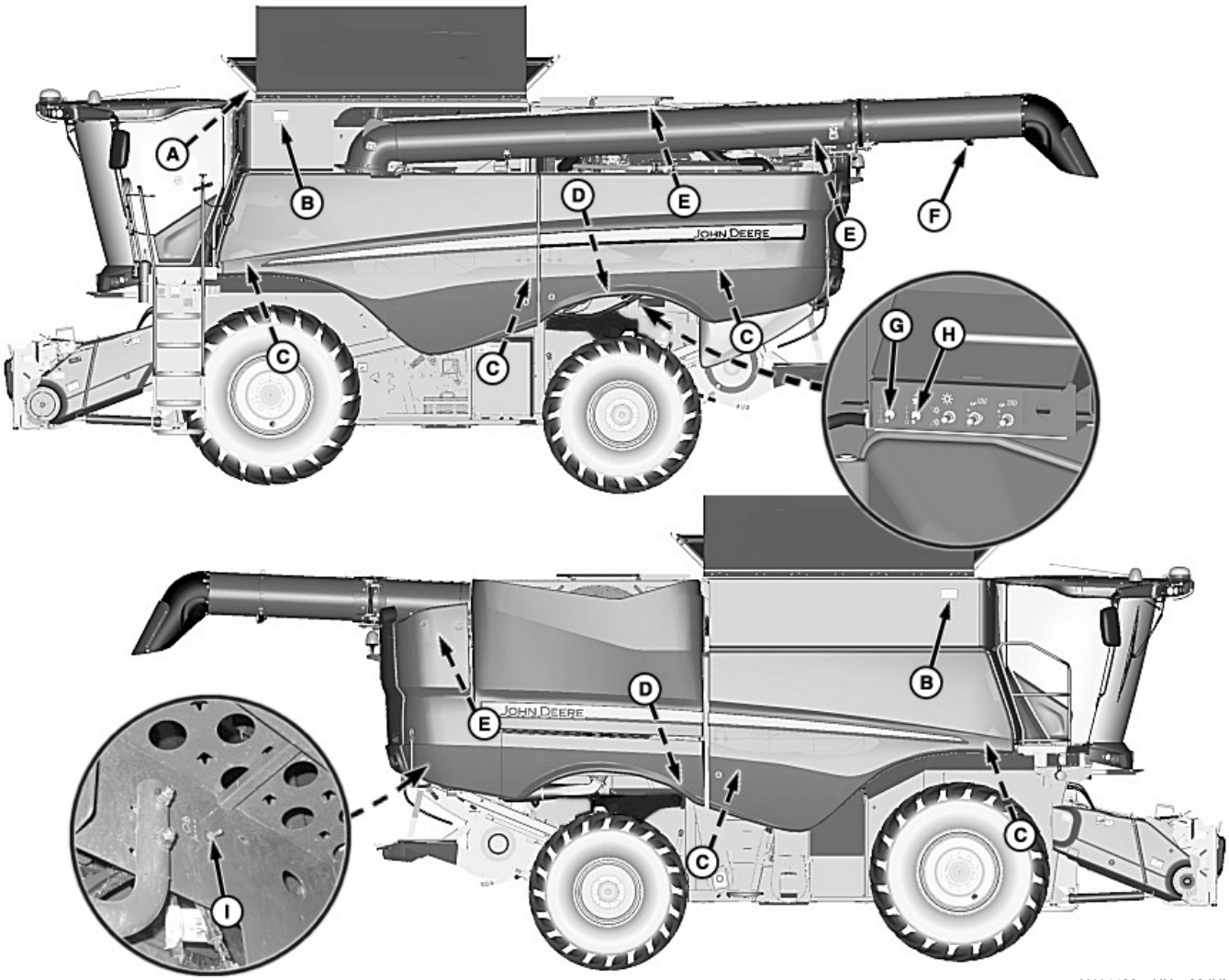
NOTE: If operator leaves seat after separator is engaged, gull wing service lights flash and will continue to flash until separator speed reaches zero.

- Gull wing service lights (C) are provided on both sides of the machine under the gull wing doors and provide better visibility of separator area.

- Gull wing service lights ON/OFF switch (H) is located above the left-hand separator shield.

OUO6075,00049B6-19-31MAY18

Lighting Locations (Left and Right Side View Lights Continued)



H114480—UN—08JUN15

A—Grain Tank Light
B—Row Finder Lights
C—Gull Wing Service Lights
D—Shoe Service Lights
E—Engine Compartment Service Lights
F—Unloading Auger Light
G—Shoe Service Light Switch
H—Gull Wing Service Lights Switch
I—Engine Compartment Service Lights Switch

Engine Compartment Service Lights (Optional)

CAUTION: Avoid motorist confusion. Do not operate engine compartment service lights when transporting.

- Engine compartment service lights (E) provide lighting for engine deck area at night or low light conditions.
- Engine compartment service lights ON/OFF switch (I) is on the right-hand rear side of machine.
- Switch controls engine compartment door light, rear engine deck light, and engine compartment front light.
- Illuminates during maintenance and service operations (not during harvest).

Exit Lighting

- Row finder lights (B) remain on for a maximum of 180 seconds after key switch and light switch are turned OFF (if road or field lights were in use within the previous 5 minutes). Operator chooses to light left or right side of machine using turn signal lever or both sides leaving lever in neutral position.

OUO6075,00049B7-19-31MAY18

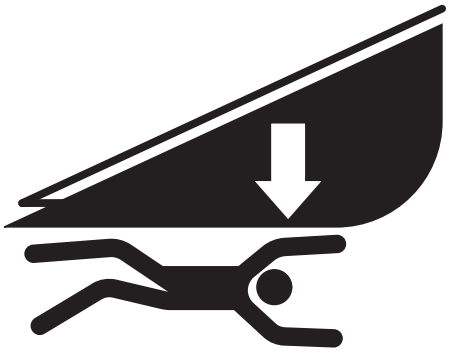
Lighting Delay/Timeout

When all lights are first turned to the ON position with key switch OFF, there is a slight delay. Machine is determining whether current battery voltage exists to operate lights without the machine running. This feature is built into the machine to help prevent too much voltage being drawn from the battery, which may prevent machine from starting.

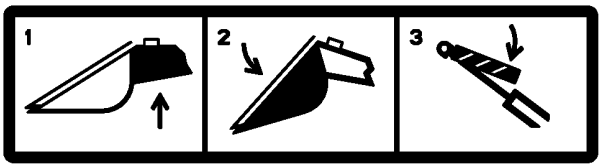
NOTE: After Cleaning Shoe Lights, Service Lights or Engine Compartment Service Lights are ON for over 10 minutes lights flash, then turn OFF momentarily, then back ON for 20 seconds. This cycle continues for 3 minutes, then lights turn OFF until switch is cycled. If lights do not come back on after switch is cycled, machine has determined that battery voltage is too low to allow light operation. Lights come on again once the engine is running and the batteries are recharging.

OUO6075,0004937-19-12APR18

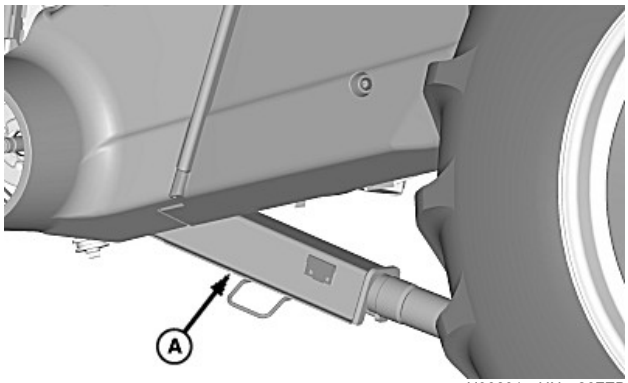
Hydraulic Cylinder Safety Stop



H121063—UN—14MAR17



H112829—UN—18FEB15



H90891—UN—26FEB08

A—Safety Stop

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

Cracking of hydraulic line fittings to lower the feeder house results in an instantaneous dropping of the feeder house and header.

Manual Feeder House Fore/Aft Tilt

Raise feeder house completely and lower safety stop (A) onto hydraulic cylinder rod.

Shut OFF engine, set park brake and remove key.

Hydraulic Feeder House Fore/Aft Tilt

Raise feeder house completely and tilt hydraulic feeder house fore/aft tilt frame fully forward and lower safety stop (A) onto hydraulic cylinder rod.

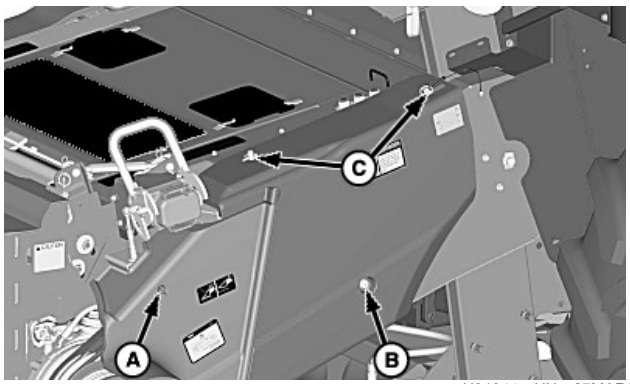
Shut OFF engine, set park brake and remove key.

NOTE: When feeder house is raised and header is engaged, feeder house fore/aft tilt automatically moves forward allowing feeder house safety stop to be lowered onto hydraulic cylinder rod. Feeder house fore/aft tilt automatically returns to last known position when lowering.

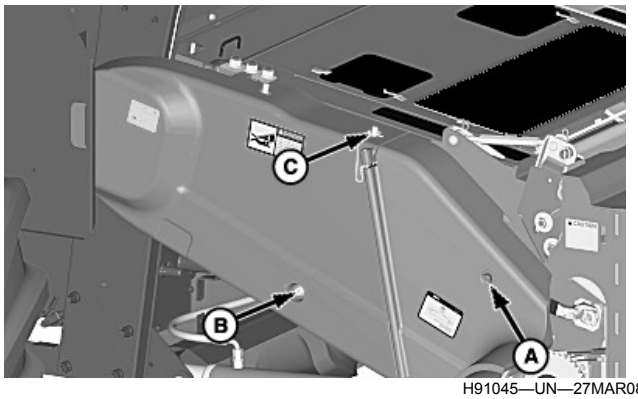
When the header is disengaged, feeder house fore/aft tilt automatically moves forward upon raising. Feeder house fore/aft tilt will not return to last known position when lowering.

OUO6075,00046F1-19-29MAR17

Feeder House Side Shields



H91044—UN—27MAR08



H91045—UN—27MAR08

A—Latch
B—Latch
C—Quick-Lock Pin

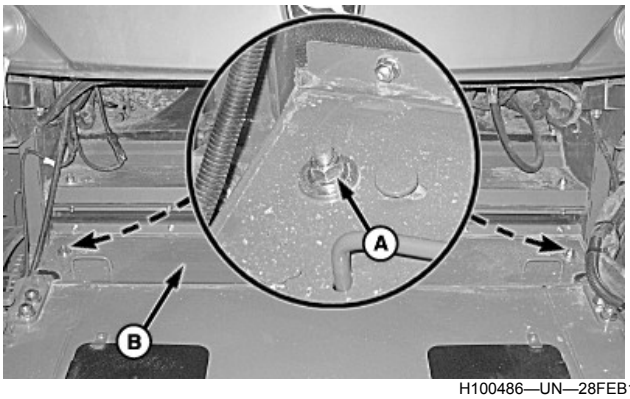
⚠ CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set parking brake and remove key.

Feeder house shields have a front and rear shield. Turn latch (A) and swing front shield open for service.

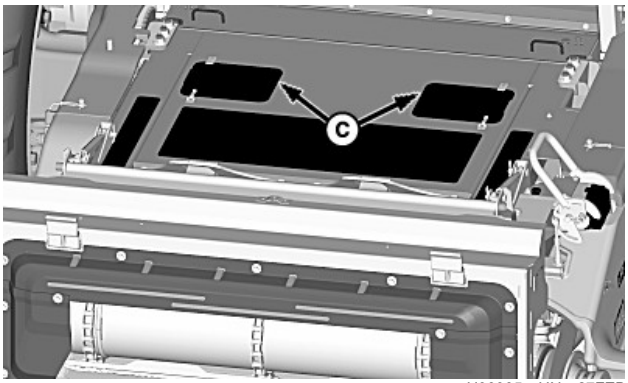
Turn latch (B) and remove quick-lock pins (C) to remove rear shield.

OUO6075,0000677-19-02FEB10

Feeder House Doors



H100486—UN—28FEB11



H90905—UN—27FEB08

A—Nuts
B—Door
C—Doors

CAUTION: Shut OFF engine, set parking brake and remove key.

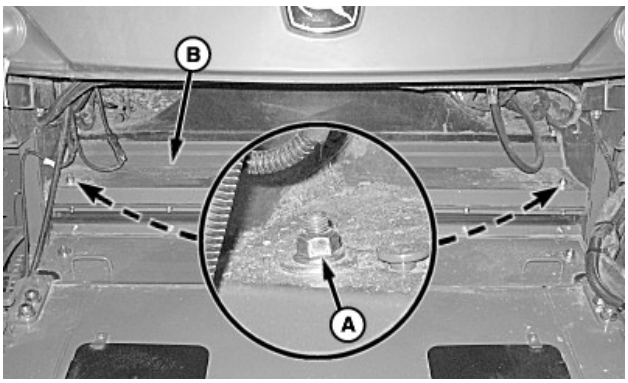
Loosen nuts (A) on each side of the door and push nuts towards center of feeder house.

Pull door (B) forward to remove.

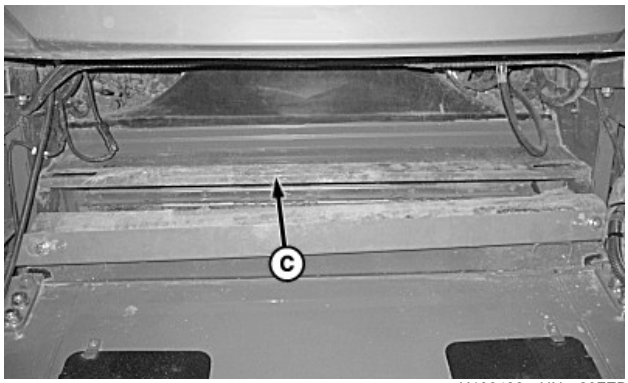
Lift doors (C) to access inside of feeder house.

OUO6075,0000B6F-19-21MAR11

Feed Accelerator Top Access Door



H100487—UN—28FEB11



H100488—UN—28FEB11

A—Locking Nuts
B—Door
C—Door

CAUTION: Shut OFF engine, set parking brake and remove key.

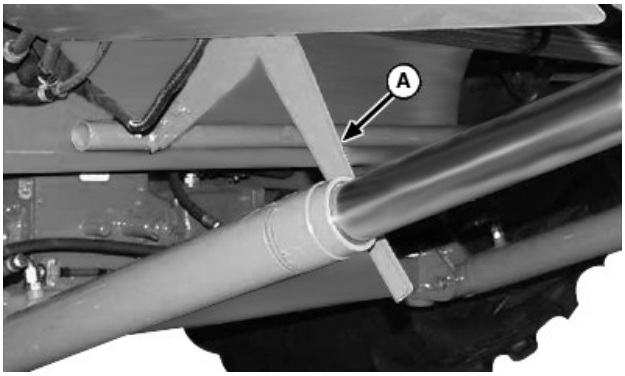
Loosen locking nuts (A) on each side of the door and push locking nuts towards center of machine.

Pull door (B) forward to remove.

Slide door (C) forward to remove.

OUO6075,0000B70-19-21MAR11

Feeder House Bottom Door and Feed Plate Seal Support (Style A)



H52761—UN—17MAY99

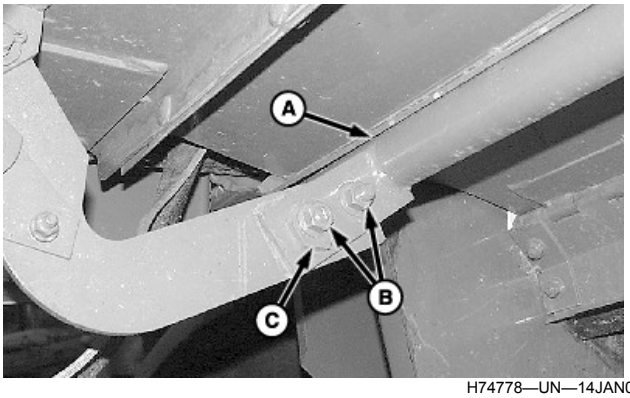
A—Lever

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set park brake and remove key.

Remove quick-lock pin and move lever (A) down and rearward.

IMPORTANT: Lever will be bent if left down when feeder house is lowered.

Push lever forward and up to close door. Retain with the previously removed quick-lock pin.



H74778—UN—14JAN03

A—Crossbar Support
B—Cap Screws
C—Eccentric

If crossbar support (A) does not seal tightly against the feed plate, grain leakage could occur.

Loosen cap screws (B) on both sides.

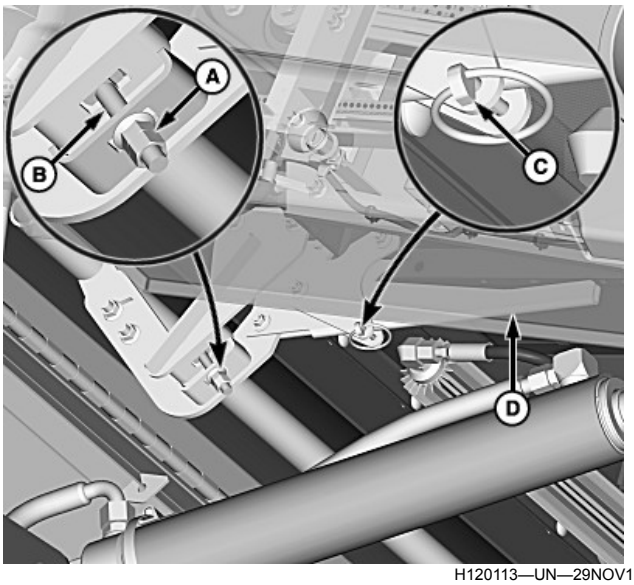
Turn eccentric (C).

Tighten cap screw securing eccentric.

Tighten remaining cap screws.

OUO6075,0004554-19-01DEC16

Feeder House Bottom Door and Feed Plate Seal Support (Style B)



H120113—UN—29NOV16

A—Nuts
B—Round Head Bolt
C—Quick-Lock Pin
D—Lever

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set park brake and remove key.

Remove nuts (A) and round head bolt (B) on both sides of the machine.

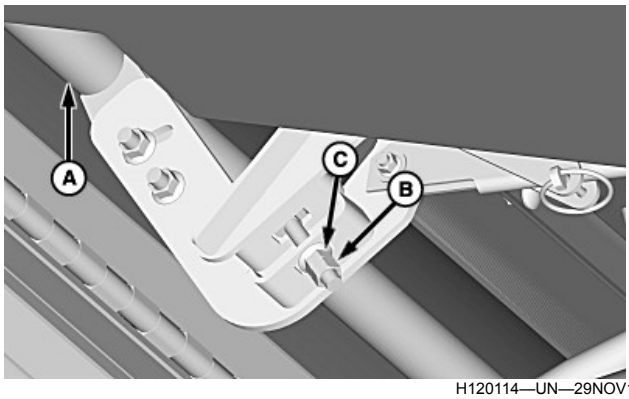
Remove quick-lock pin (C) and move lever (D) down and rearward.

IMPORTANT: Lever will be bent if left down when feeder house is lowered.

Push lever forward and up to close door. Retain with previously removed quick-lock pin.

Install previously removed round head bolt (B) and nuts (A) on both sides of the machine.

Feed Plate Adjustment



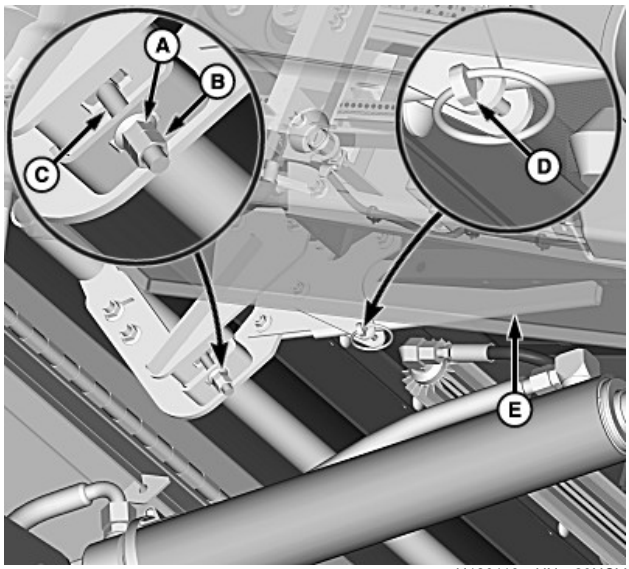
H120114—UN—29NOV16

A—Crossbar Support
B—Nut
C—Nut

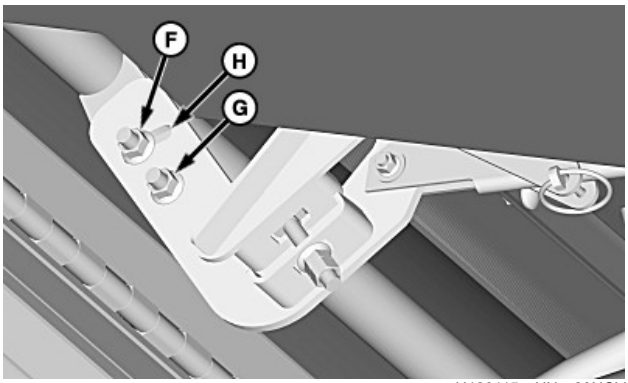
If crossbar support (A) does not seal tightly against the feed plate, grain leakage could occur.

On the side that has the gap, loosen nut (B) and tighten nut (C) as needed.

Tighten previously loosened nut (B) against nut (C).



H120116—UN—29NOV16



H120115—UN—29NOV16

A—Nut
B—Nut
C—Round Head Bolt
D—Quick-Lock Pin
E—Lever
F—Nut
G—Nut
H—Slot

If further adjustment is needed, remove nuts (A and B) from the round head bolt (C) on both sides of the machine.

Remove quick-lock pin (D) and move lever (E) down and rearward.

Loosen nuts (F and G) and adjust crossbar support as needed in slot (H).

Tighten previously loosened nuts (F and G).

NOTE: Lever should close easily without a high amount of force.

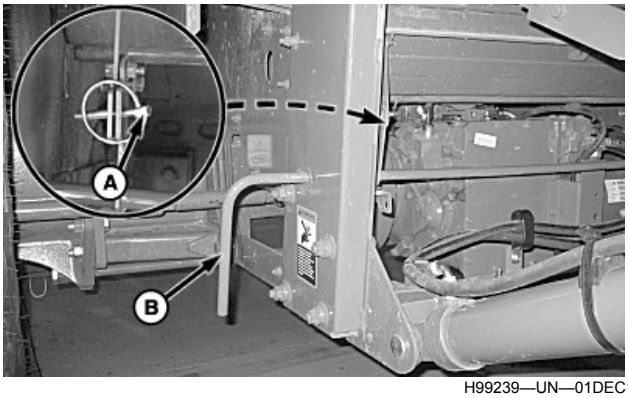
Push lever (E) forward and up to close door. Retain with the previously removed quick-lock pin (D).

Install previously removed round head bolt (C) and tighten nut (A) on both sides of the machine.

Tighten previously removed nut (B) against nut (A) on both sides of the machine.

OUO6075,0004553-19-02DEC16

Stone Trap



H99239—UN—01DEC10

A—Quick-Lock Pin
B—Lever

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set parking brake and remove key.

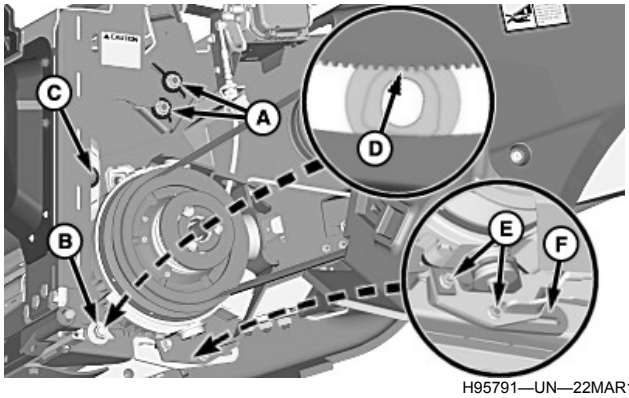
Stone trap protects the cylinder and concave from rock or stone damage.

Remove quick-lock pin (A) and move lever (B) up to open stone trap.

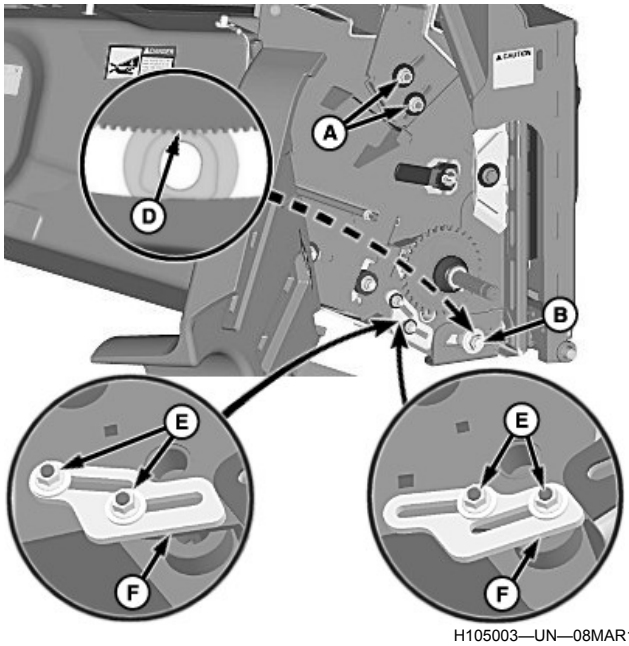
Move lever down to close stone trap. Retain with quick-lock pin.

OUO6075,000065C-19-01DEC10

Adjust and Set Feeder House Fore/Aft Tilt Frame (Manual Tilt)



H95791—UN—22MAR10



H105003—UN—08MAR12

Rearward Holes (Left) / Forward Holes (Right)

A—Tilt Frame Nuts, M16
B—Tilt Frame Nut, M20
C—Cap Screw
D—Washer Splines

E—Nuts
F—Stop Plate

CAUTION: Lower header to ground to relieve tension from fore/aft tilt frame turnbuckles. Shut OFF engine, set parking brake and remove key.

Fore/Aft tilt frame is used to set the correct relationship between platform skid plates and the ground. It compensates for different tire sizes, rear axle settings, and other variables.

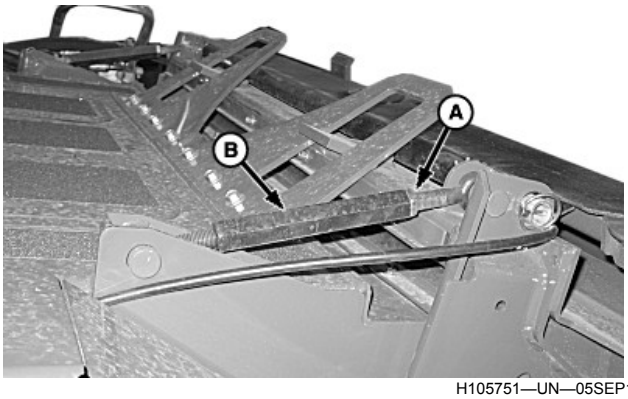
Loosen tilt frame nuts (A) and nut (B) on both sides.

IMPORTANT: Do not loosen cap screw (C).

Disengage washer splines (D) from support plate on both sides.

NOTE: Move right-hand stop plate to rearward mounting holes if needed.

Loosen nuts (E) and move stop plate (F) rearward on both sides.



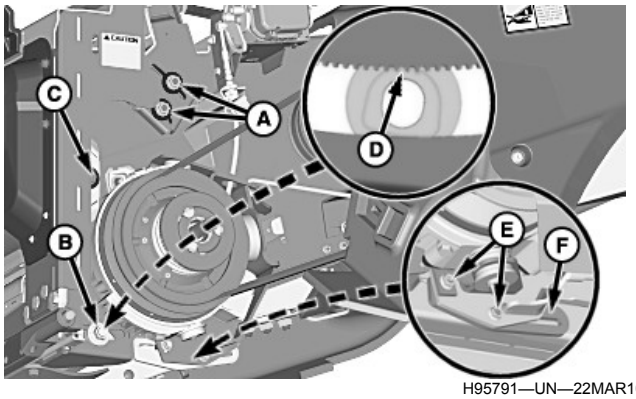
H105751—UN—05SEP12

A—Nut
B—Turnbuckle

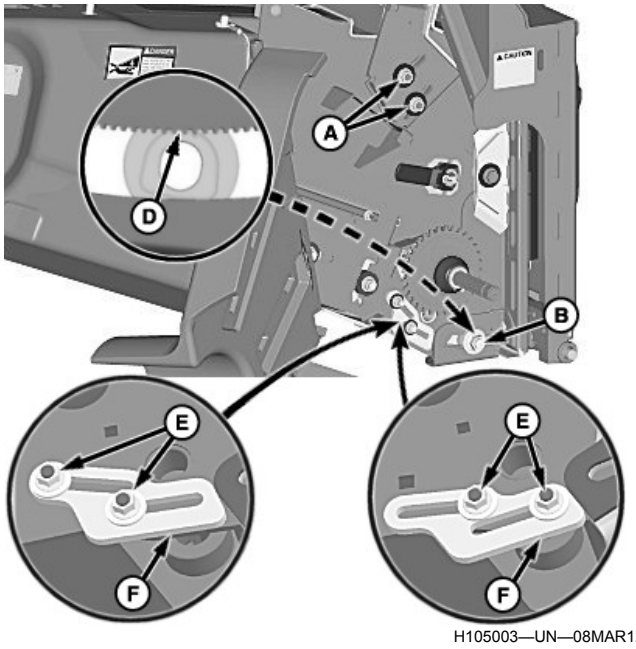
IMPORTANT: Hose clamp on multi-coupler may need to be repositioned when adjusting fore/aft tilt frame.

Loosen nut (A) and adjust turnbuckle (B) on both sides as needed for correct header angle.

Tighten turnbuckle nut on both sides.



H95791—UN—22MAR10



H105003—UN—08MAR12

Rearward Holes (Left) / Forward Holes (Right)

A—Tilt Frame Nuts, M16
B—Tilt Frame Nut, M20
C—Cap Screw
D—Washer Splines
E—Nuts
F—Stop Plate

Engage washer splines (D) into support plate and tighten tilt frame nuts (A and B) on both sides to specification.

Specification

M16 Tilt Frame Nuts
(A)—Torque. . . . . 300 N·m (221 lb.-ft.)

M20 Tilt Frame Nut (B)—Torque. . . . . 620 N·m (460 lb.-ft.)

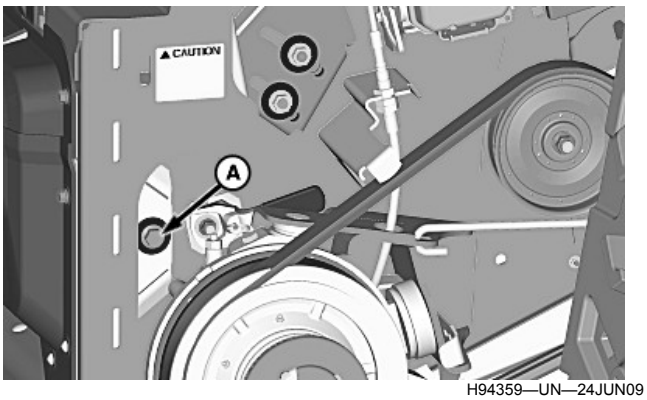
IMPORTANT: No gap should exist between stop plates and fore/aft tilt frame after tightening nuts.

NOTE: Attach right-hand stop plate to forward or rearward holes as needed.

Move stop plate (F) fully forward on both sides and tighten nuts (E) to specification.

Specification

Stop Plate Nuts—Torque. . . . . 130 N·m (96 lb.-ft.)



H94359—UN—24JUN09

A—Pivot Bolt

Tilt frame is set to an approximate position at factory, but if tires or axle positions are changed or ground conditions change (soft ground), it may be necessary to readjust.

An approximate setting can be obtained without a header attached by the following:

- With machine on a smooth level surface, lower or raise feeder house until pivot bolt (A) to ground distance is set to specification.

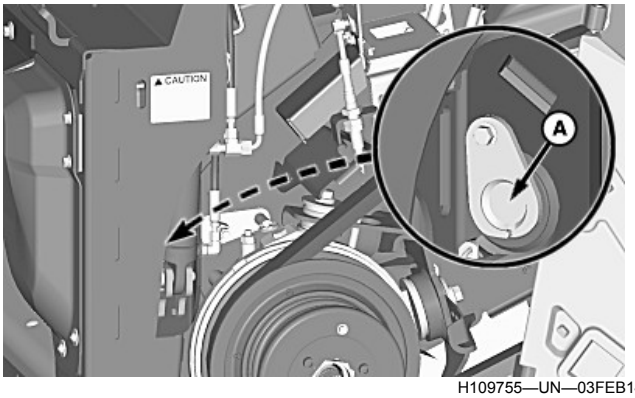
Specification

Pivot Bolt To Ground—Distance. . . . . 903 mm (35-1/2 in.)

- Using a level as a reference, adjust fore/aft tilt frame until front face is vertical.

OUO6075,0001757-19-12MAR14

Set Feeder House Fore/Aft Tilt Frame Zero Point (Hydraulic Tilt) (If Equipped)



H109755—UN—03FEB14

A—Pivot Pin

⚠ CAUTION: Alert others around the machine to stay clear while calibration is being performed.

Fore/Aft tilt frame is used to set the correct relationship between platform skid plates and the ground. It compensates for the different tire sizes, rear axle settings, and other variables.

Tilt frame is set to an approximate position at factory, but if tires or axle positions are changed or ground conditions change (soft ground), it may be necessary to readjust zero point.

NOTE: If field conditions are normal, calibration can be done on level concrete.

If field conditions are soft (leaving ruts), calibration MUST be done in a level location in the field.

An approximate setting can be obtained without a header attached. See Calibrations Application Help or Operator's Station Help to calibrate Feeder House Tilt Fore/Aft Range. During calibration, set zero point by measuring the following:

- **Tilt fore/aft frame fully forward.** Lower or raise feeder house until pivot pin (A) to ground distance is set to **1016 mm (40 in)**.
- Using a level as a reference, adjust fore/aft tilt frame until front face is vertical.

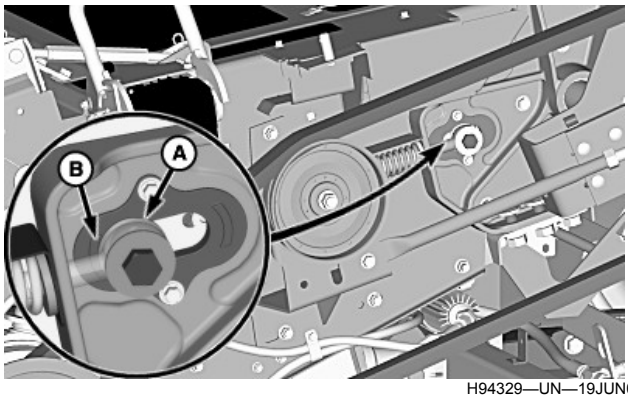
NOTE: This fore/aft frame adjustment changes the pivot pin to ground distance from 1016 mm (40 in) to the desired specification distance.

Specification

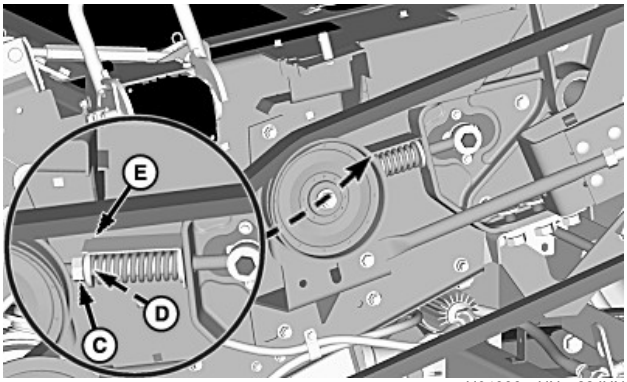
Pivot Pin To Ground—Distance. . . . . 903 mm (35-1/2 in.)

OUO6075,00045FF-19-22FEB17

Feeder House Conveyor Chain—Adjusting



H94329—UN—19JUN09



H94336—UN—22JUN09

A—Washer
B—Embossment
C—Nut
D—Washer
E—Gauge

Remove feeder house shields on both sides.

One offset link on each chain strand must be removed when washer (A) aligns with inner edge of front embossment (B) as shown.

Tighten nut (C) on both sides of feeder house until washer (D) is between end of gauge (E) and bottom of step.

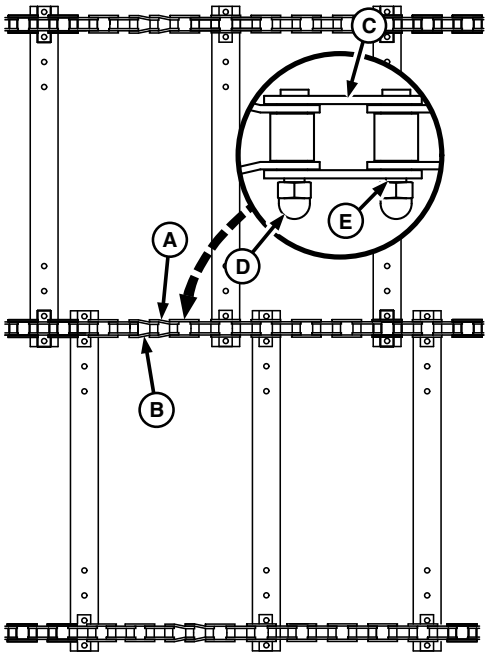
NOTE: Check tension on both sides every 25 hours for the first 100 hours.

- Check tension on both sides every 100 hours. Adjust when any part of washer is beyond end of gauge.
- Out-of-round sprockets or drum and bent shafts can cause chain tension to be uneven, too tight, or too loose.
- Excessive chain tension causes shaft and bearing failures.

Install feeder house side shields.

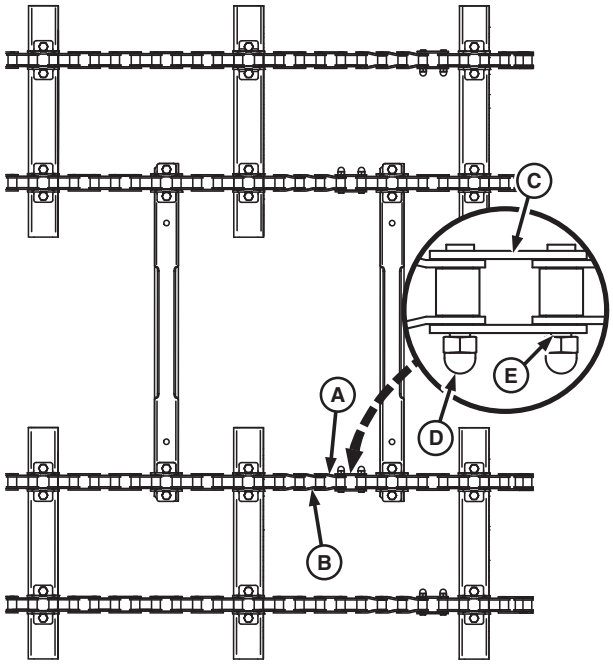
OUO6075,000067C-19-22NOV10

Feeder House Conveyor Chain Links—Removing



H87543—UN—17APR07

Three Strand Feeder House Conveyor Chain



H109687—UN—30JAN14

Four Strand Feeder House Conveyor Chain

A—Offset Link
B—Offset Link
C—Sidebar
D—Cap Nut
E—Gap, 1—2 mm (3/64 in.—5/64 in.)

NOTE: Three strand feeder house conveyor chain is only available on HillMaster™ machines.

When replacing chain links always check sprockets for wear.

Remove offset links (A) for initial chain adjustment.

Remove offset links (B) for second adjustment. When adjustment is used up from second adjustment, chain is worn out and must be replaced.

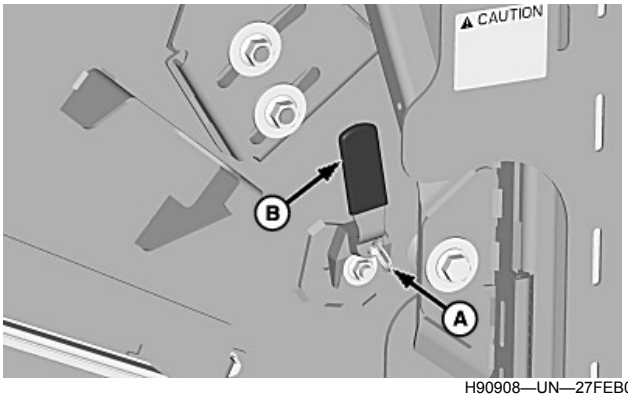
Specification	
"U" Slat M10 Hardware—Torque	73 N·m (54 lb.-ft.)
Chain Link M8 Cap Nuts—Torque	25 N·m (18 lb.-ft.)

IMPORTANT: When installing connector links, cap nuts must be oriented away from drum rings.

When chain link cap nuts (D) are torqued to specification, gap (E) should exist between connector link sidebar (C) and cap nut.

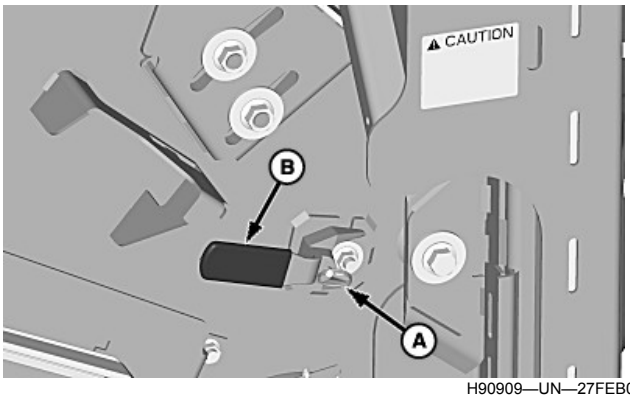
OUO6075,0001755-19-03FEB14

Feeder House Drum (Manual Tilt)—Height Adjustment



H90908—UN—27FEB08

Corn Only Position



H90909—UN—27FEB08

Small Grain Position

A—Pin
B—Drum Height Handle

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set park brake and remove key.

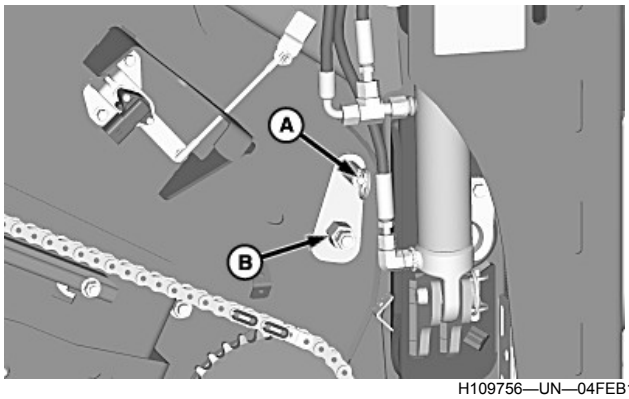
Open feeder house shields.

Pull and hold pin (A) while rotating handle (B) to desired crop position on both sides.

Close feeder house shields.

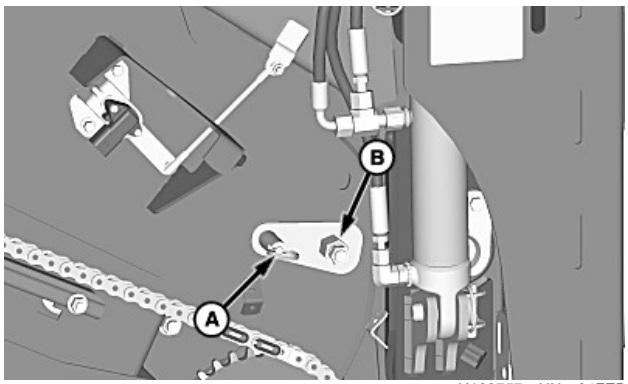
SS43267,0000377-19-18FEB14

Feeder House Drum (Hydraulic Tilt) (If Equipped)—Height Adjustment



H109756—UN—04FEB14

Corn Only Position



H109757—UN—04FEB14

Small Grain Position

A—Pin
B—Drum Height Handle

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set park brake and remove key.

Open feeder house shields.

Pull and hold pin (A) while rotating drum height handle (B) to desired crop position on both sides.

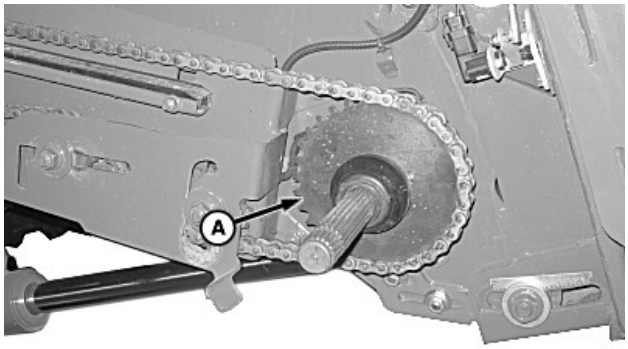
HillMaster is a trademark of Deere & Company

NOTE: Use a socket or wrench to rotate drum height handle.

Close feeder house shields.

SS43267,00004EA-19-05MAR15

Feeder House Conveyor Speed—Changing



H102187—UN—13JUN11

A—Sprocket

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set parking brake and remove key.

NOTE: Refer to Crop Settings section for recommended feeder house conveyor sprocket settings.

Important Notes About 32-Tooth Sprocket:

- Sprocket is not recommended for corn use.

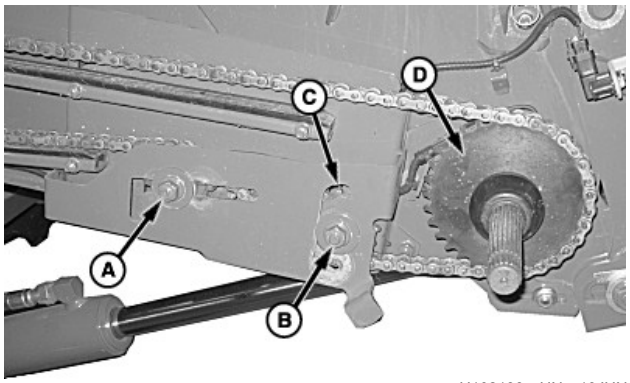
Recommended for conditions when feeding is poor due to following crops and conditions:

- **Crops:** Barley, Canola, Oats, Rice, Rye, and Wheat
- **Conditions:** High Volume, Green, Wet, Windrowed, and Poor Feeding

As crop conditions change or feeding improves (dryer, more even windrows, lighter straw), it is recommended to use the 26 tooth sprocket. Chain speed slows and reduces potential for straw damage or pre-threshing and extends chain life.

Feeder conveyor chain can be set to two different speeds by selecting drive sprocket (A) on right-hand side of the lower shaft.

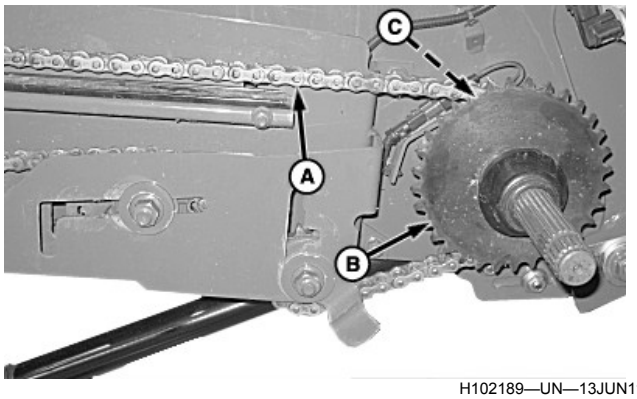
Use small sprocket for slow speed and large sprocket for high speed.



H102188—UN—13JUN11

A—Nut
B—Nut
C—Upper Position
D—Sprocket

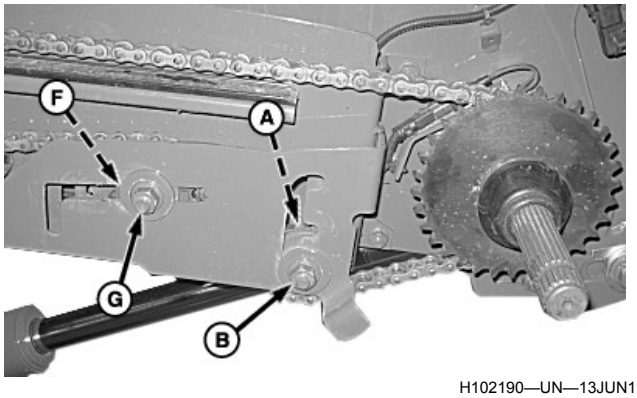
1. **To move drive chain to smaller sprocket:** Open right-hand front shield.
2. Loosen nut (A) and push sprocket rearward.
3. Loosen nut (B) and move sprocket to upper position (C).
4. Push in on coupler and move sprocket (D) outward until it engages detent.



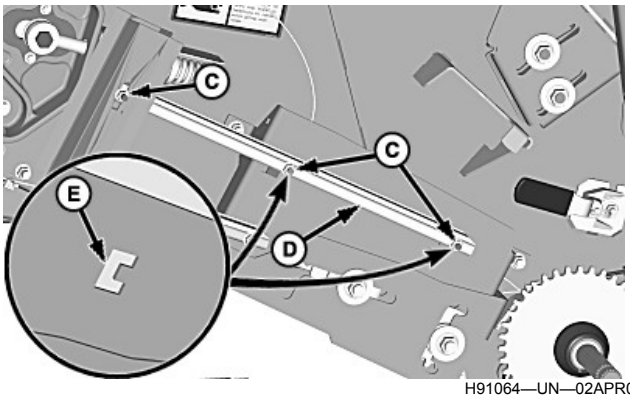
H102189—UN—13JUN11

A—Chain
B—Large Sprocket
C—Small Sprocket

5. Move chain (A) from large sprocket (B) to small sprocket (C).



H102190—UN—13JUN11



H91064—UN—02APR08

A—Sprocket
B—Nut
C—Nuts
D—Chain Guide
E—Notches
F—Sprocket
G—Nut

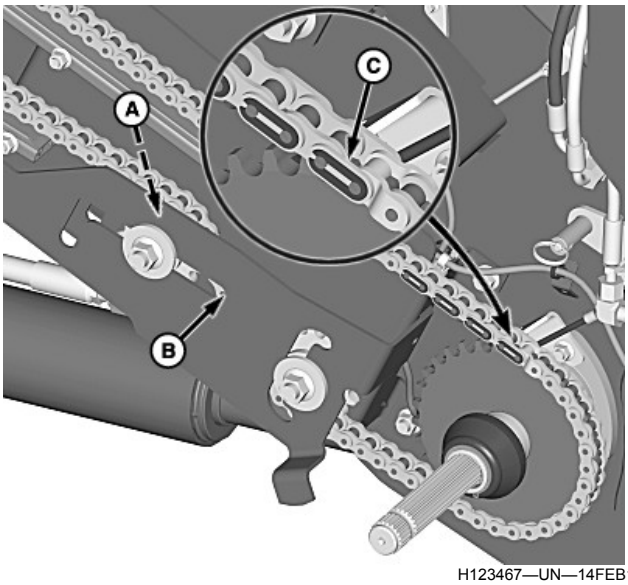
6. Move sprocket (A) to lower position and tighten nut (B).
7. Loosen nuts (C) and slide chain guide (D) into desired notches (E) and tighten nuts.

NOTE: Do not over tighten feeder conveyor drive chain. It is acceptable for chain to ride on plastic guide.

8. Use pry bar in holes of inside plate to move sprocket (F) forward and tighten nut (G).
9. Close right-hand front shield.

OUO6075,0000661-19-13JUN11

Feeder House Conveyor Drive Chain Links —Removing



H123467—UN—14FEB18

A—Sprocket
B—End of Slot
C—Connector Link

It is normal for the drive chain to stretch over time. Additional connector links allow the drive chain to be used longer.

NOTE: When removing connector links, always check sprockets for wear.

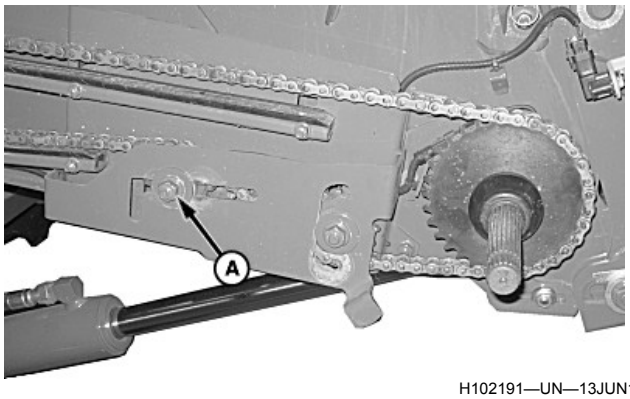
When the sprocket (A) reaches the end of slot (B) remove connector link (C).

See Feeder House Conveyor Drive Chain—Adjustment for further information.

When the final adjustment is used up, the chain is worn out and must be replaced.

OUO6075,00048B0-19-19FEB18

Feeder House Conveyor Drive Chain—Adjusting



H102191—UN—13JUN11

A—Nut

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set parking brake and remove key.

Open right-hand front shield.

Loosen nut (A) and push sprocket rearward.

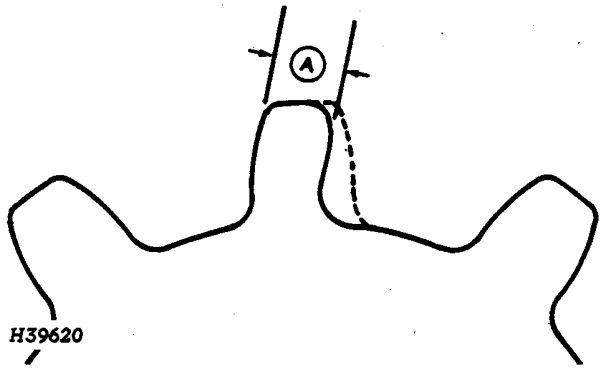
NOTE: Do not over tighten feeder conveyor drive chain. It is acceptable for chain to ride on plastic guide.

Use pry bar in holes on inside plate to move sprocket forward and tighten nut (A).

Close right-hand front shield.

OUO6075,0000662-19-13JUN11

Feeder House Top Shaft Sprockets



H39620—UN—11OCT88

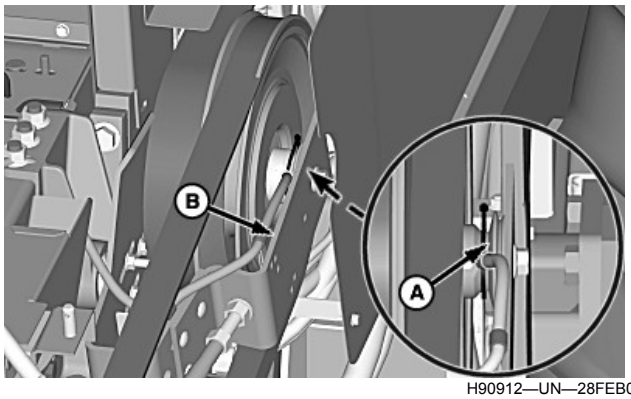
A—Dimension 12 mm (1/2 in.)

After 1000 hours, depending on the crops being harvested, check the upper shaft sprockets for wear.

If these sprockets are worn past 12 mm (1/2 in.) (A), sprockets can be reversed for additional wear.

OUO6075,0000665-19-02FEB10

Feeder House Variable Speed Drive Belt—Replacing



H90912—UN—28FEB08

A—Rubber Boot
B—Bracket

CAUTION: Lower variable sheave is under spring tension; if belt is removed, it will snap back to a closed position.

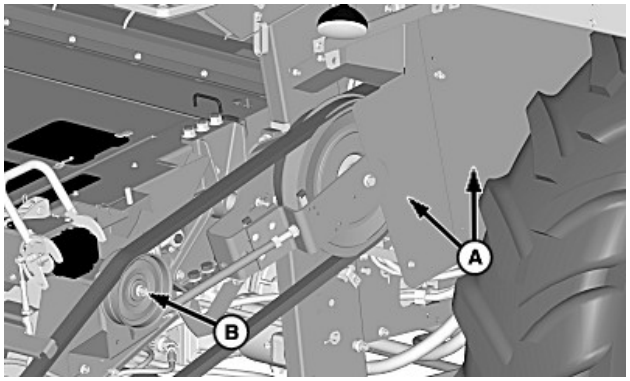
Start engine, engage separator and move engine speed switch to fast idle. **Adjust feeder house drive belt to slow front shaft speed.**

CAUTION: Shut OFF engine, set parking brake and remove key.

Disengage separator, stop engine, and remove key.

Lower safety stop and remove left-hand feeder house shields.

Look under rubber boot (A) to verify if upper sheaves are fully open. At low speed position, outer sheave half bulb is against bracket (B).

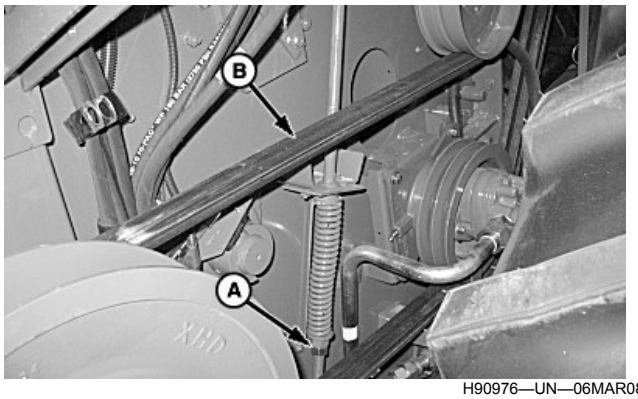


H90910—UN—27FEB08

A—Shields
B—Nut

Remove shields (A).

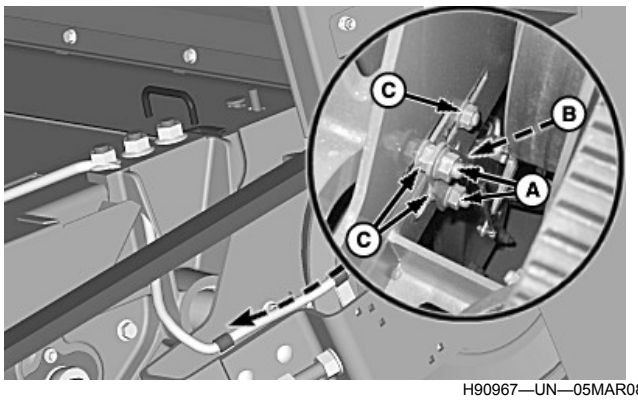
Loosen idler nut (B) to relieve drive belt tension.



H90976—UN—06MAR08

A—Nut
B—Drive Belt

Loosen nuts (A) to relieve tension on reel drive belt (B).

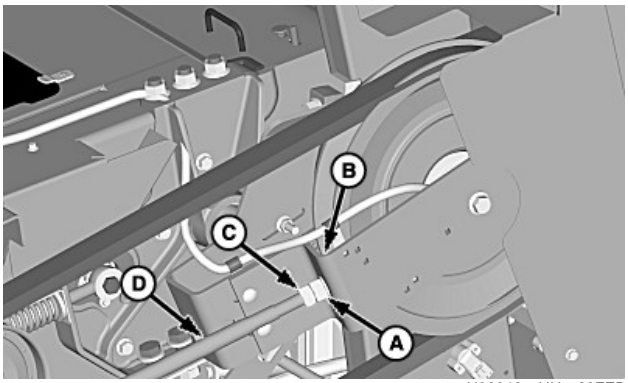


H90967—UN—05MAR08

A—Nuts (2 Used)
B—Bracket
C—Nuts (3 Used)

Remove and retain nuts (A) and bracket (B).

Loosen nuts (C) to allow upper sheave assembly to move.



H90913—UN—28FEB08

A—Nut
B—Bracket
C—Nut
D—Tensioner

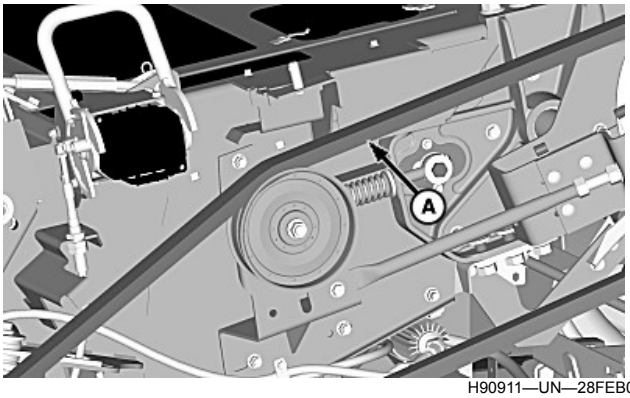
NOTE: Nut (C) must be moved and jammed against nut (A). Together these nuts can be used to turn tensioner bolt.

Loosen nut (A) away from bracket (B) until a 3 mm (1/8 in.) gap exists between either side of bracket.

Tighten nut (C) against nut (A).

NOTE: Threading bolt into tensioner allows sheave to move forward to remove drive belt.

Use nut (A) to screw threaded bolt into tensioner (D).



H90911—UN—28FEB08

A—Drive Belt

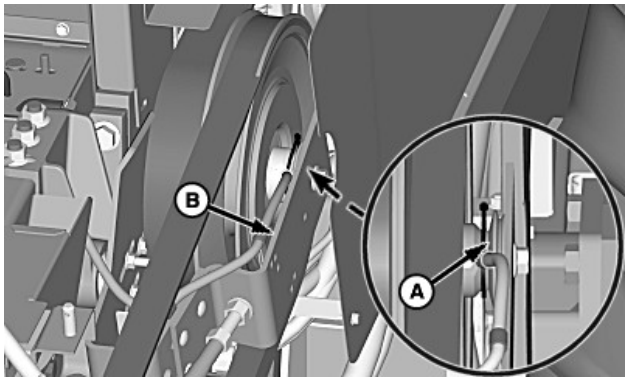
Remove drive belt (A) from sheaves.

Install replacement drive belt and adjust tension. (See Feeder House Variable Speed Belt—Adjusting).

Install bracket and feeder house shields previously removed.

OUO6075,0000666-19-02FEB10

Feeder House Variable Speed Drive Belt—Adjusting



H90912—UN—28FEB08

A—Rubber Boot
B—Bracket

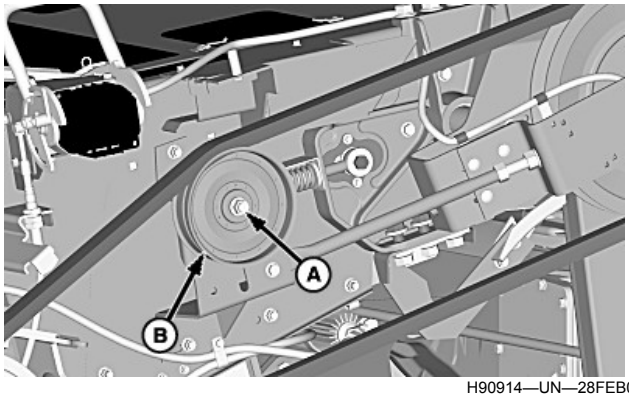
NOTE: Minor adjustments can be made to variable speed belt by raising idler. If a 3 mm (1/8 in.) gap cannot be reached by raising idler, proceed to next step.

Start engine, engage separator and move engine speed switch to fast idle. **Adjust feeder house drive belt to slow front shaft speed.**

Disengage separator, stop engine, and remove key.

Lower safety stop and remove left-hand feeder house shields.

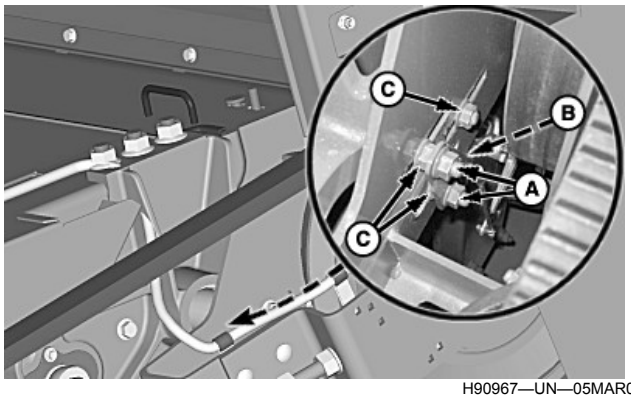
Look under rubber boot (A) to verify if upper sheaves are fully open. At low speed position, outer sheave half bulb is against bracket (B).



H90914—UN—28FEB08

A—Nut
B—Idler

Loosen nut (A) to adjust idler (B) to lower position.

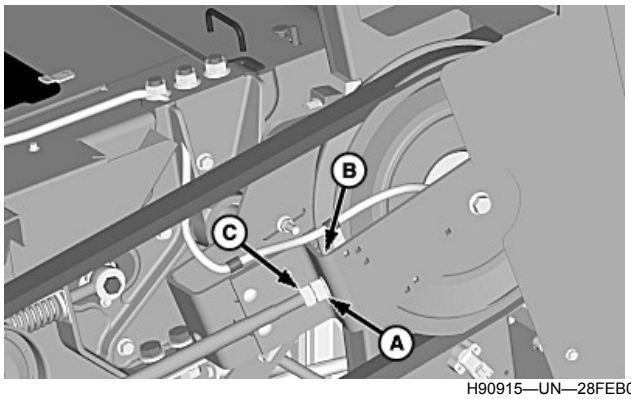


H90967—UN—05MAR08

A—Nuts (2 Used)
B—Bracket
C—Nuts (3 Used)

Remove and retain nuts (A) and bracket (B).

Loosen nuts (C) to allow upper sheave assembly to move.



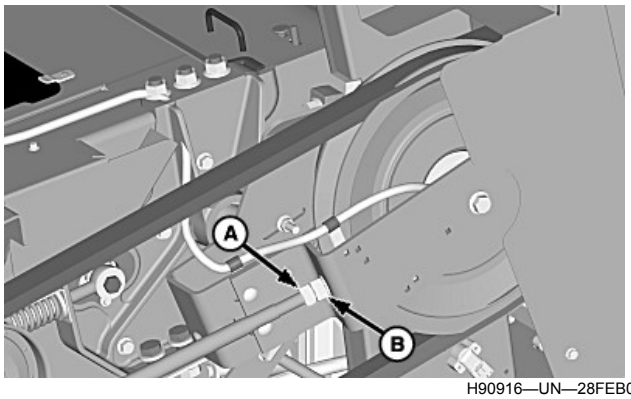
H90915—UN—28FEB08

A—Nut
B—Bracket
C—Nut

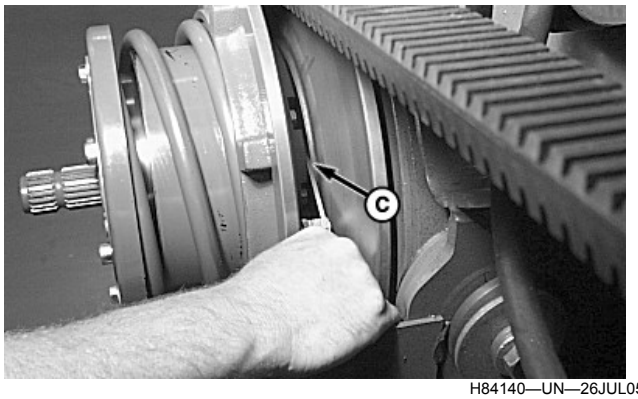
NOTE: Nut (C) must be moved and jammed against nut (A). Together these nuts can be used to turn tensioner bolt.

Loosen nut (A) away from bracket (B) until a 3 mm (1/8 in.) gap exists between either side of bracket.

Tighten nut (C) against nut (A).



H90916—UN—28FEB08



H84140—UN—26JUL05

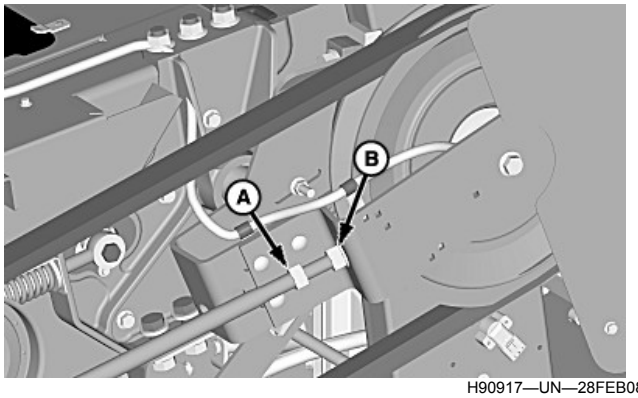
A—Nut
B—Bolt
C—Gap, 3 mm (1/8 in.)

IMPORTANT: Rotate belt while adjusting sheave gap. Failure to rotate belt while adjusting sheave gap results in belt damage.

A gap between sheave halves is important so sheave halves can grip belt when in slow speed position. Cutting platform drive shaft speed must be at slow speed.

Turn nut (A) to adjust bolt (B).

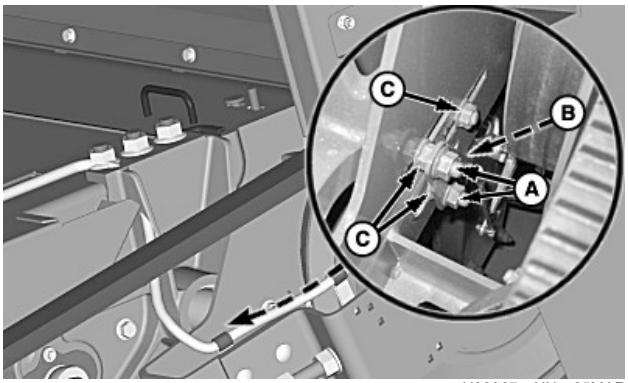
Move upper variable sheaves with bolt until a 3 mm (1/8 in.) gap exists between lower sheave halves or upper sheave assembly reaches end of slots.



H90917—UN—28FEB08

A—Nut
B—Nut

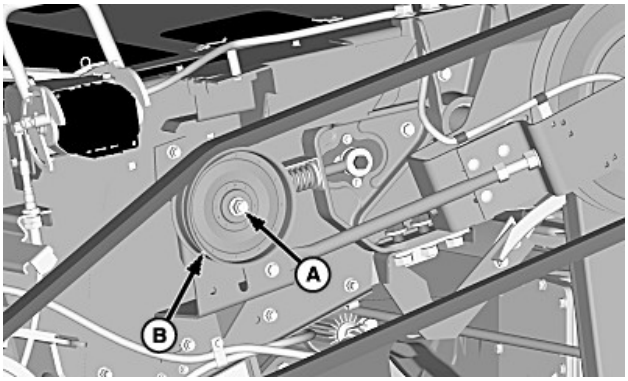
Tighten nut (A) first and then nut (B).



H90967—UN—05MAR08

A—Nuts (2 Used)
B—Bracket
C—Nuts (3 Used)

Tighten nuts (C) and install bracket (B) and retain with nuts (A).



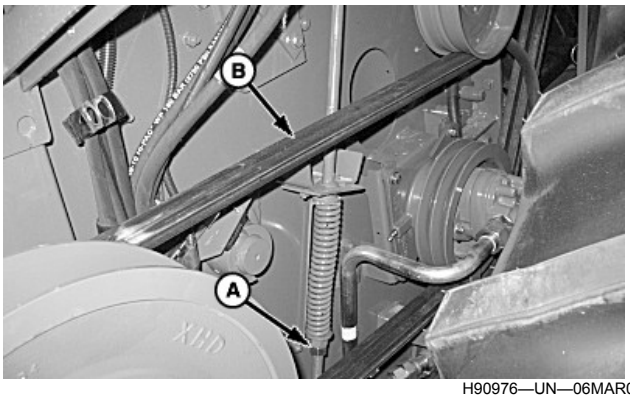
H90914—UN—28FEB08

A—Idler
B—Nut

IMPORTANT: DO NOT stand on belt while pushing up on idler to set gap.

Raise idler (A) until idler touches drive belt.

Raise sheave an additional 25 mm (1 in.) and tighten nut (B).



H90976—UN—06MAR08

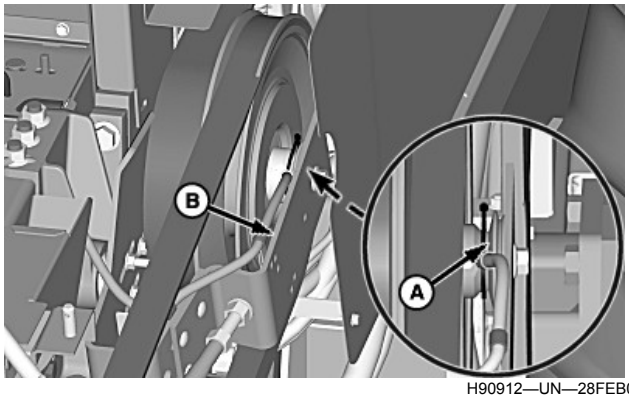
A—Nut
B—Drive Belt

Tighten adjusting nut (A) to position washer between end of gauge and bottom of step to adjust reel drive belt (B).

Install feeder house shields.

OUO6075,0000667-19-02FEB10

Header Reel/Belt Pickup Pump Belt (Variable Speed Feeder House)—Replacing



H90912—UN—28FEB08

A—Rubber Boot
B—Bracket

CAUTION: Lower variable sheave is under spring tension; if belt is removed, it snaps back to a closed position.

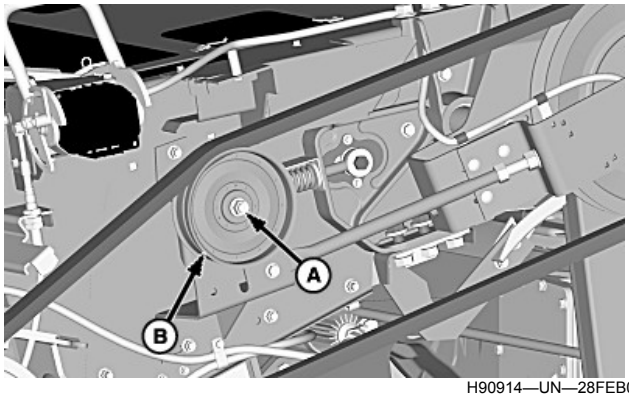
Start engine, engage separator and move switch to fast idle. **Adjust feeder house drive belt to slow front shaft speed.**

CAUTION: Shut OFF engine, set park brake and remove key.

Disengage separator, stop engine, and remove key.

Lower safety stop and remove left-hand feeder house shields.

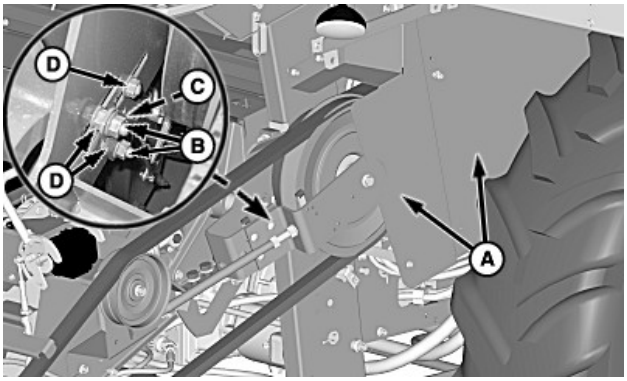
Look under rubber boot (A) to verify if upper sheaves are fully open. At low speed position, outer sheave half bulb is against bracket (B).



H90914—UN—28FEB08

A—Idler Nut
B—Sheave

Loosen idler nut (A) and slide sheave (B) down to release tension on the drive belt.

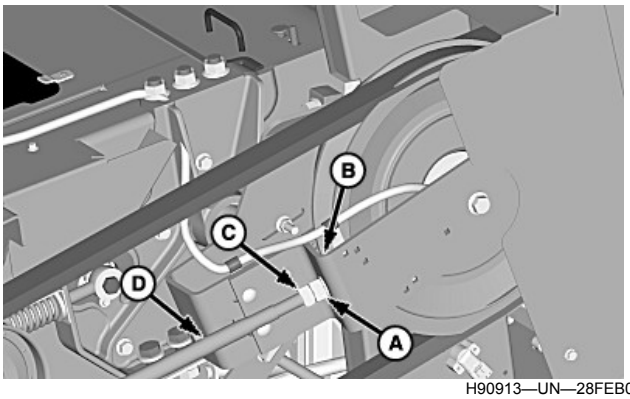


H90918—UN—05MAR08

A—Shields
B—Nut (2 used)
C—Sensor Bracket
D—Nut (3 used)

Remove shields (A), nuts (B), and sensor bracket (C).

Loosen nuts (D) to allow upper sheave assembly to move.



H90913—UN—28FEB08

A—Nut
B—Bracket
C—Nut
D—Tensioner

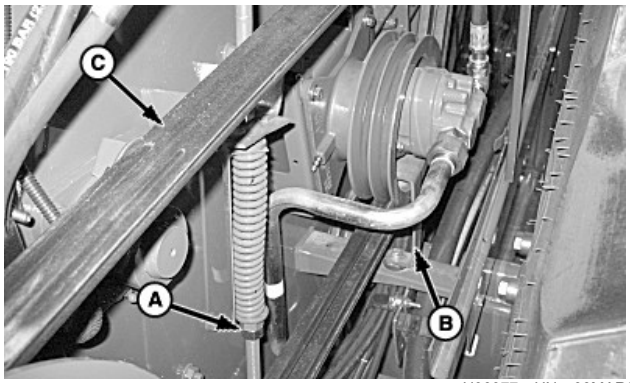
NOTE: Nut (C) must be moved and jammed against nut (A). Together these nuts can be used to turn the tensioner bolt.

Loosen nut (A) away from bracket (B) until a 3 mm (1/8 in) gap exists between either side of bracket.

Tighten nut (C) against nut (A).

NOTE: Threading bolt into tensioner allows the sheave to move forward to remove drive belt.

Use nut (A) to screw threaded bolt into the tensioner (D).

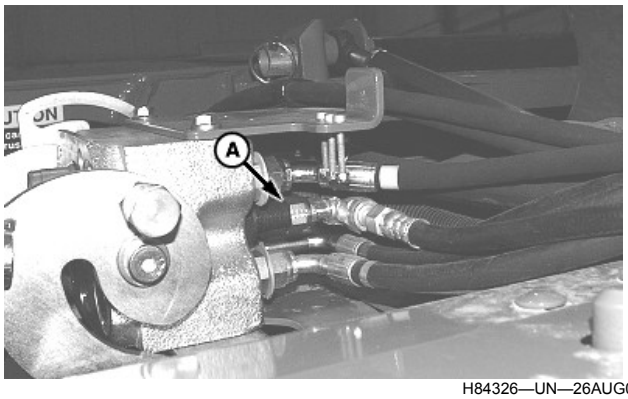


H90977—UN—06MAR08

A—Nuts
B—Brace
C—Drive Belt

Loosen nuts (A) to relieve tension from the drive belt.

Remove cap screw and nut to move the reel pump brace (B) out of way so drive belt (C) can be removed.

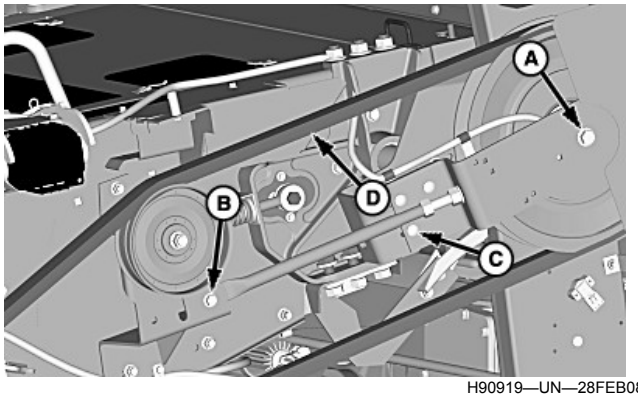


H84326—UN—26AUG05

A—Hydraulic Hose

NOTE: Cap hydraulic hose to prevent system contamination and fluid loss.

Disconnect hydraulic hose (A) from multicoupler.

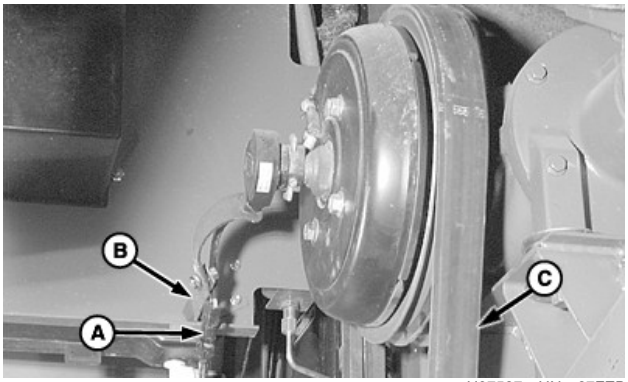


H90919—UN—28FEB08

A—Cap Screw
B—Cap Screw and Nut
C—Round Head Bolt (3 used)
D—Drive Belt

Remove cap screw (A), cap screw and nut (B) and round head bolts (C).

Remove drive belt (D) from rear sheave.



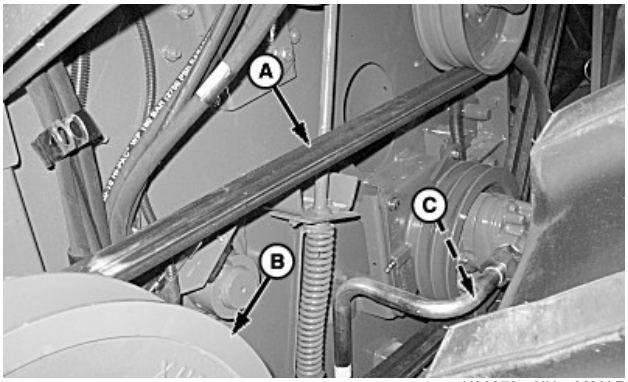
H87527—UN—27FEB07

A—Connector
B—Bracket
C—Drive Belt

Unplug connector (A) and remove the strap from the bracket (B).

Remove and discard drive belt (C).

Install replacement drive belt, connect strap to the bracket, and connect electrical connector.

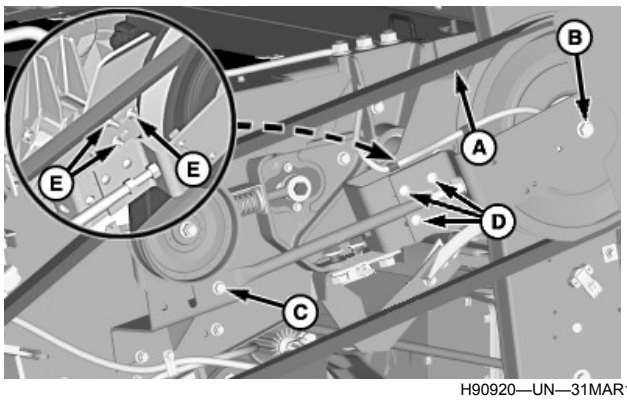


H90978—UN—06MAR08

A—Drive Belt
B—Sheave
C—Brace

Install drive belt (A) around the reel pump and rear sheaves (B).

Install previously removed reel pump brace (C) with the cap screw and nut.



H90920—UN—31MAR10

A—Drive Belt
B—Cap Screw
C—Cap Screw and Nut
D—Round Head Bolt (3 used)
E—Nut (3 used)

Install drive belt (A) around rear sheave.

Install cap screw (B) and tighten to specification.

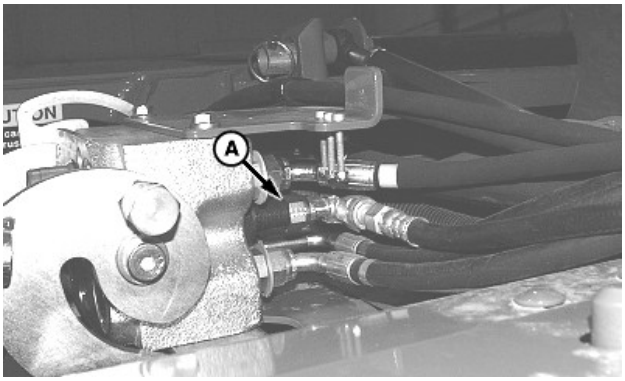
Specification

Cap Screw—Torque. . . . . 185 N·m (136 lb·ft)

Tighten cap screw and nut (C).

Leave round head bolts (D) loose at this time.

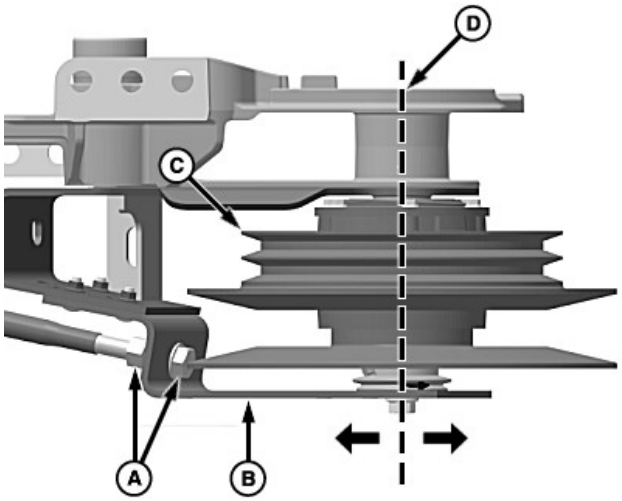
Tighten nuts (E) to prevent upper sheave assembly from moving.



H84326—UN—26AUG05

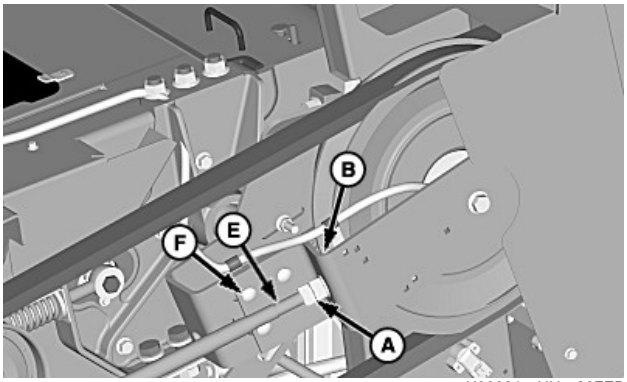
A—Hydraulic Hose

Connect hydraulic hose (A) to multicoupler.



H122740—UN—15JAN18

Top View



H90921—UN—28FEB08

A—Nut (2 used)
B—Outer Strap
C—Sheave (2 used)
D—Side Sheet
E—Cap Screw
F—Round Head Bolt (3 used)

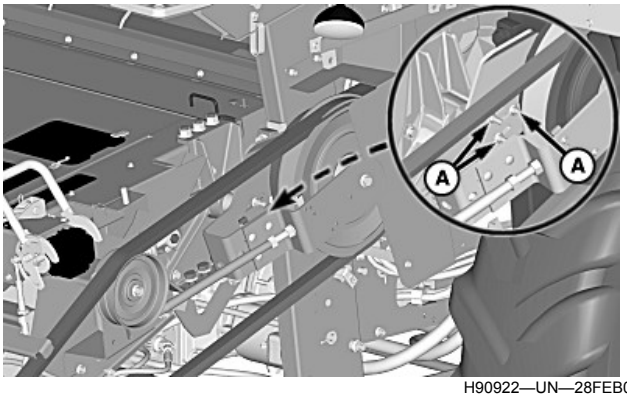
NOTE: Check alignment of upper countershaft sheaves (C). Make sure that sheaves are running parallel to the feeder house side sheet. Parallel alignment of countershaft sheaves must be adjusted by loosening round head bolts (F) and using nuts (A) on bolt (E).

Using nuts (A), turn bolt (E) to move outer strap (B) forward or rearward to align sheaves (C) so that they are parallel to the feeder house side sheet (D).

Tighten round head bolts (F) to specification.

Specification

Round Head Bolts—Torque. . . . . 54 N·m (40 lb·ft)



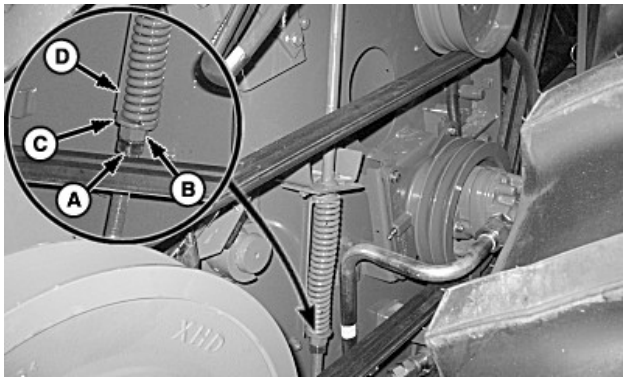
H90922—UN—28FEB08

A—Nut (3 used)

Loosen previously tightened nuts (A) and refer to Feeder House Variable Speed Belt—Adjusting to set the sheave gap.

OUO6075,000480F-19-14NOV17

Header Reel/Belt Pickup Pump Belt (Variable Speed Feeder House)—Adjusting



H90975—UN—06MAR08

A—Lock Nut
B—Nut
C—Washer
D—Gauge

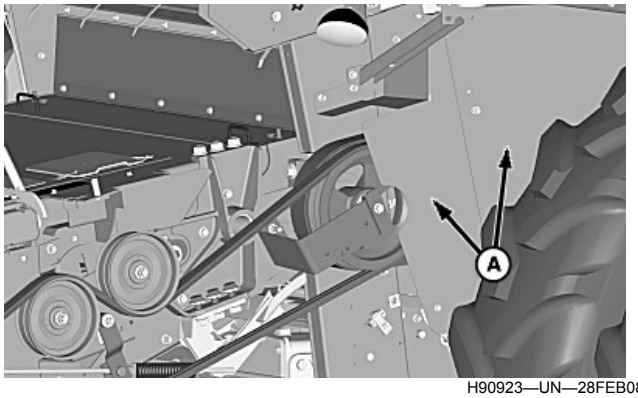
CAUTION: Shut OFF engine, set parking brake and remove key.

Loosen lock nut (A).

Tighten nut (B) until washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,0000669-19-02FEB10

Feeder House Fixed Speed Drive Belt—Replacing



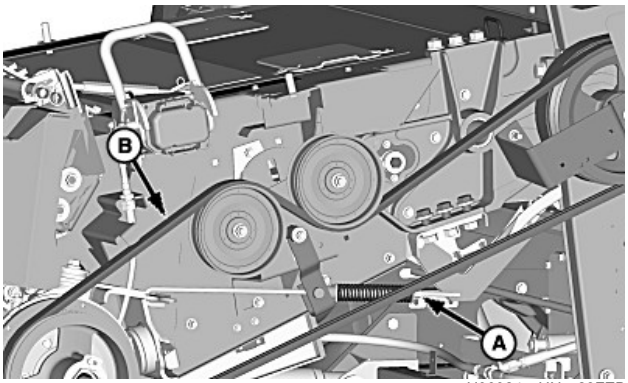
H90923—UN—28FEB08

A—Shields

CAUTION: Shut OFF engine, set parking brake and remove key.

Lower safety stop and remove left-hand feeder house shields.

Remove shields (A).



H90924—UN—28FEB08

A—Nuts
B—Drive Belt

Loosen nuts (A) to relieve tension on drive belt (B).

Remove drive belt from sheaves.

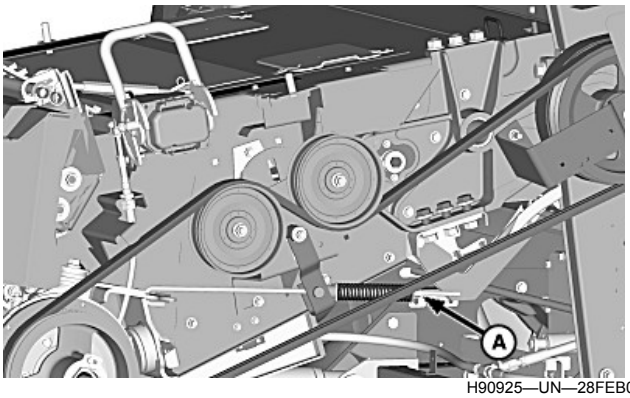
Install replacement drive belt and tighten nuts to position washer between end of gauge and bottom of step.

Swing bracket into position and retain with cap screw and nut.

Install feeder house shields previously removed.

OUO6075,000066A-19-02FEB10

Feeder House Fixed Speed Drive Belt—Adjusting



H90925—UN—28FEB08

A—Nuts

CAUTION: Shut OFF engine, set parking brake and remove key.

Lower safety stop and remove left-hand feeder house shields.

Tighten nuts (A) to position washer between end of gauge and bottom of step.

Install feeder house shields previously removed.

OUO6075,000066B-19-02FEB10

Header Reel/Belt Pickup Pump Belt (Fixed Speed Feeder House)—Replacing



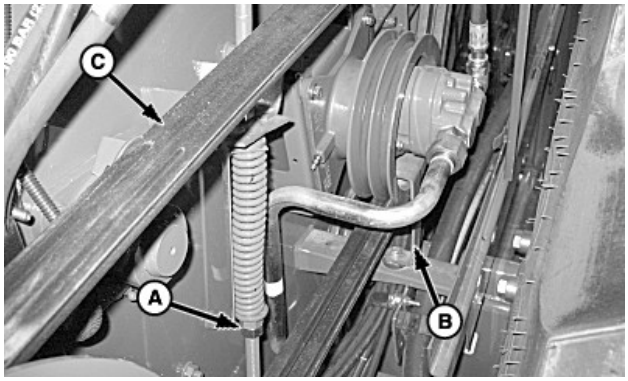
H90923—UN—28FEB08

A—Shields

CAUTION: Shut OFF engine, set parking brake and remove key.

Lower safety stop and remove left-hand feeder house shields.

Remove shields (A).

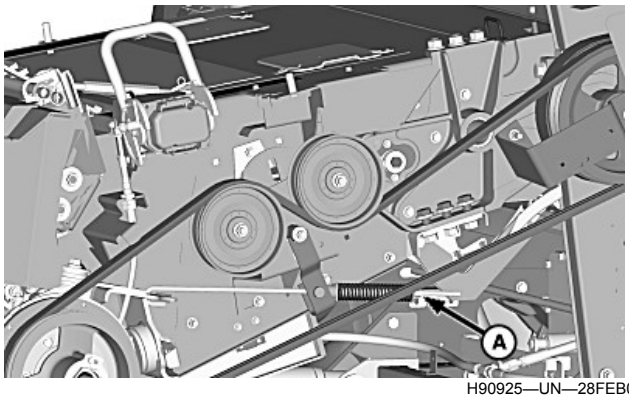


H90977—UN—06MAR08

A—Nuts
B—Brace
C—Drive Belt

Loosen nuts (A) to relieve tension from drive belt.

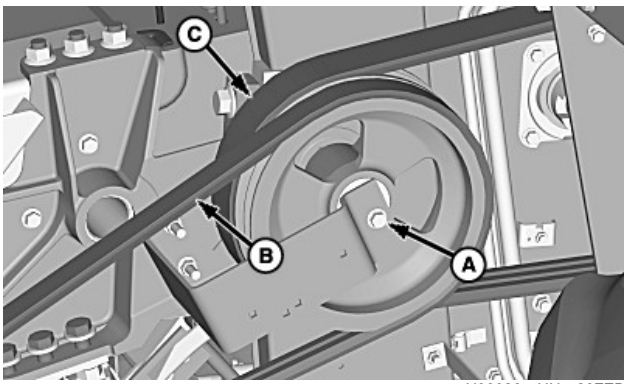
Remove cap screw and nut to move reel pump brace (B) out of way so drive belt (C) can be removed.



H90925—UN—28FEB08

A—Nuts

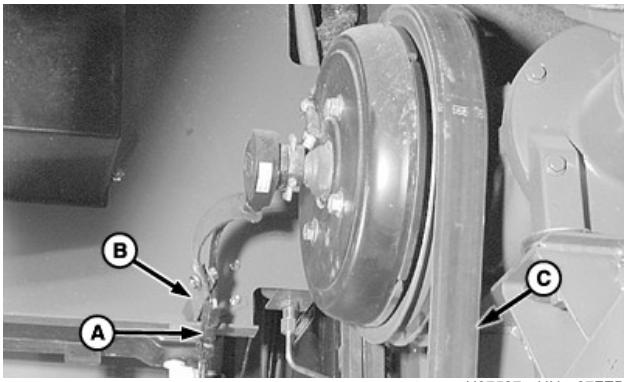
Loosen nuts (A) to relieve tension on drive belt.



H90926—UN—28FEB08

A—Cap Screw
B—Fixed Speed Drive Belt
C—Header Reel/Belt Pickup Pump Belt

Remove cap screw (A), fixed speed drive belt (B) and header reel/belt pickup pump belt (C).



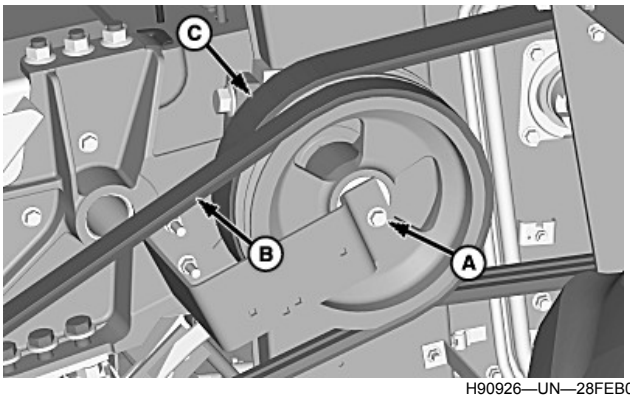
H87527—UN—27FEB07

A—Connector
B—Bracket
C—Header Reel/Belt Pickup Pump Belt

Disconnect connector (A) and remove strap from bracket (B).

Remove and discard header reel/belt pickup pump belt (C).

Install replacement header reel/belt pickup pump belt, connect strap to bracket, and connect electrical connector.



H90926—UN—28FEB08

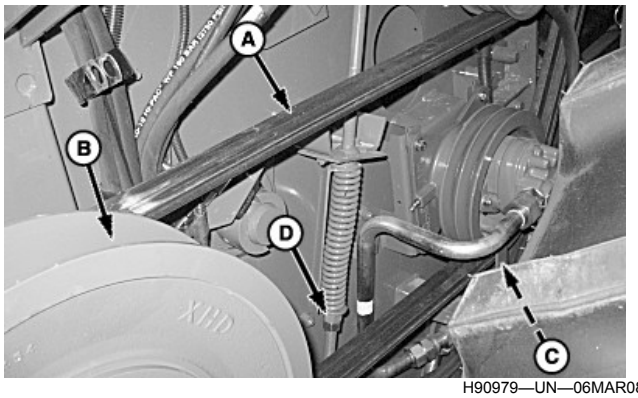
A—Cap Screw
B—Fixed Speed Drive Belt
C—Header Reel/Belt Pickup Pump Belt

Install replacement header reel/belt pickup pump belt (C) and fixed speed drive belt (B).

Install and tighten cap screw (A) to specification.

Specification

Cap Screw—Torque. . . . . 185 N·m (136 lb-ft)



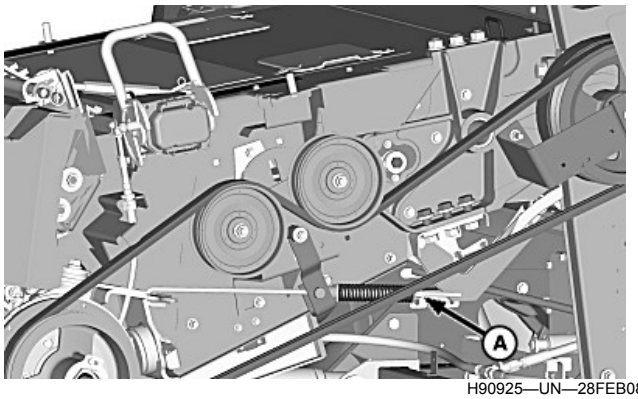
H90979—UN—06MAR08

A—Drive Belt
B—Sheave
C—Brace
D—Nuts (2 Used)

Install drive belt (A) around reel pump and rear sheaves (B).

Install previously removed reel pump brace (C) with cap screw and nut.

Tighten nuts (D) to position washer between end of gauge and bottom of step to adjust drive belt.



H90925—UN—28FEB08

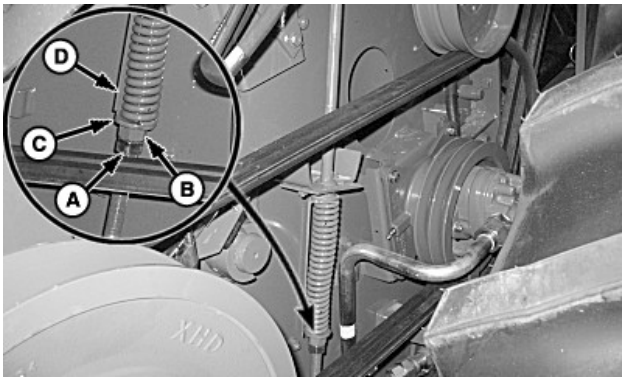
A—Nuts

Tighten nuts (A) to position washer between end of gauge and bottom of step to properly tension drive belt.

Install left-hand feeder house shields.

OUO6075,000066C-19-02FEB10

Header Reel/Belt Pickup Pump Belt (Fixed Speed Feeder House)—Adjusting



H90975—UN—06MAR08

A—Lock Nut
B—Nut
C—Washer
D—Gauge

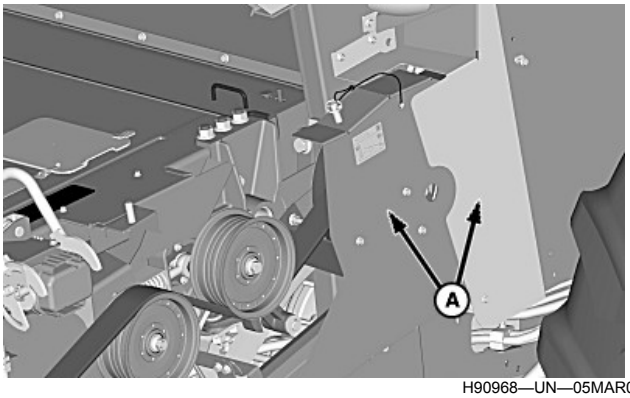
CAUTION: Shut OFF engine, set parking brake and remove key.

Loosen lock nut (A).

Tighten nut (B) until washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,000066D-19-02FEB10

CommandTouch Multi-Speed Feeder House Drive Belt—Replacing



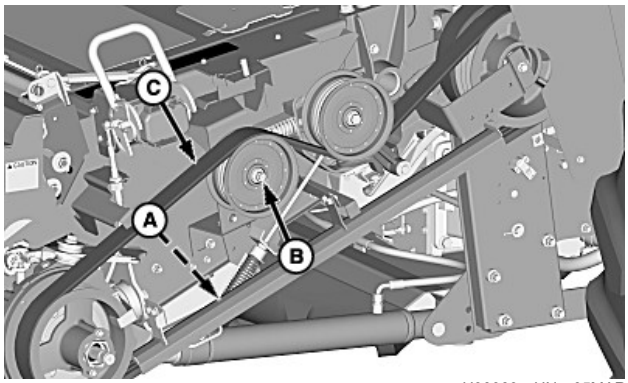
H90968—UN—05MAR08

A—Shields

CAUTION: Shut OFF engine, set parking brake and remove key.

Lower safety stop and remove left-hand feeder house shields.

Remove shields (A).



H90969—UN—05MAR08

A—Nuts
B—Idler Nut
C—Drive Belt

Loosen nuts (A) to relieve tension on drive belt and loosen idler nut (B).

Remove drive belt (C) from sheaves.

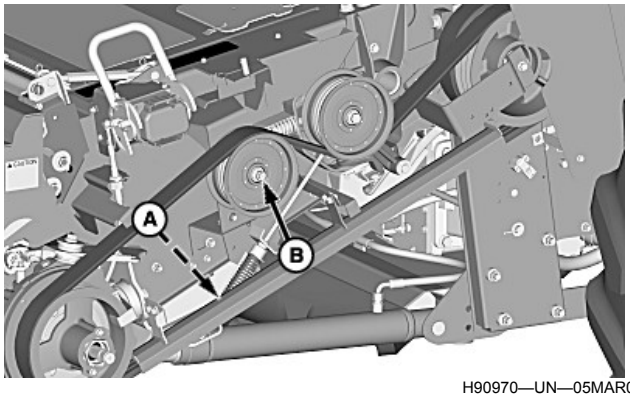
Install replacement drive belt and move idler to 3/4 of way up slot and tighten idler nut.

Tighten nuts to position washer between end of gauge and bottom of step.

Install feeder house shields previously removed.

OUO6075,0000653-19-02FEB10

CommandTouch Multi-Speed Feeder House Drive Belt—Adjusting



H90970—UN—05MAR08

A—Nuts
B—Idler Nut

CAUTION: Shut OFF engine, set parking brake and remove key.

Lower safety stop and remove left-hand feeder house shields.

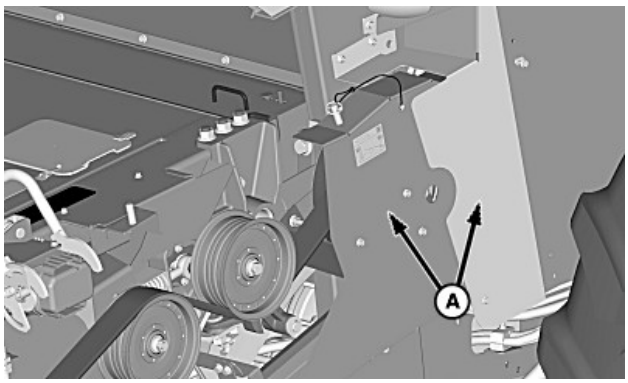
Tighten nuts (A) to position washer between end of gauge and bottom of step.

NOTE: If gauge reaches end of tensioning, loosen idler nut (B) and move idler higher in slot. Tighten nuts to position washer between end of gauge and bottom of step.

Install feeder house shields previously removed.

OUO6075,0000654-19-02FEB10

Header Reel/Belt Pickup Pump Belt (CommandTouch Multi-Speed Feeder House)—Replacing



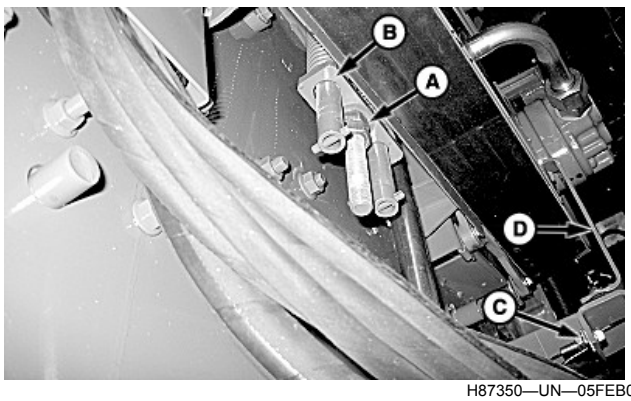
H90968—UN—05MAR08

A—Shields

⚠ CAUTION: Shut OFF engine, set parking brake and remove key.

Lower safety stop and remove left-hand feeder house shields.

Remove shields (A).

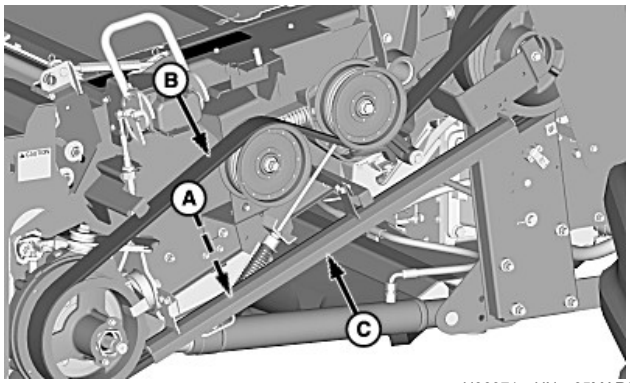


H87350—UN—05FEB07

A—Nuts
B—Spring Tensioner
C—Cap Screw and Nut
D—Brace

Loosen nuts (A) on spring tensioner (B) to relieve tension on drive belt.

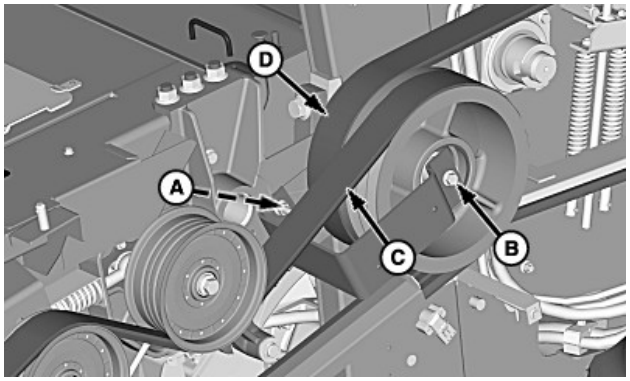
Remove cap screw and nut (C) to move reel pump brace (D) out of way.



H90971—UN—05MAR08

A—Nuts
B—Drive Belt
C—Shield

Loosen nuts (A) to relieve tension on drive belt (B) and remove shield (C).



H90972—UN—05MAR08

A—Sensor Bracket
B—Cap Screw
C—Feeder House Drive Belt
D—Header Reel/Belt Pickup Pump Belt

Remove sensor bracket (A) and cap screw (B).

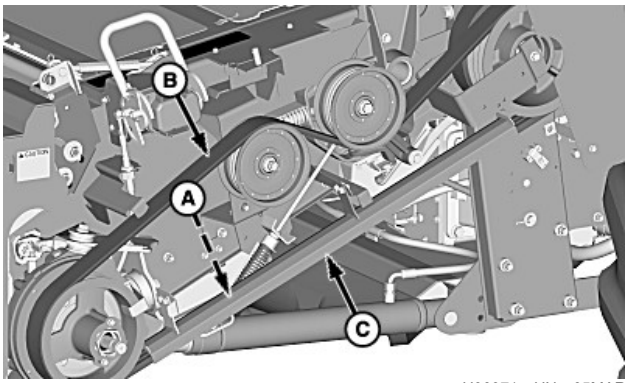
Remove feeder house drive belt (C) from sheaves and header reel/belt pickup pump belt (D).

Install replacement header reel/belt pickup pump belt and feeder house drive belt.

Install sensor bracket and tighten cap screw to specification.

Specification

Cap Screw—Torque	185 N•m (136 lb-ft)

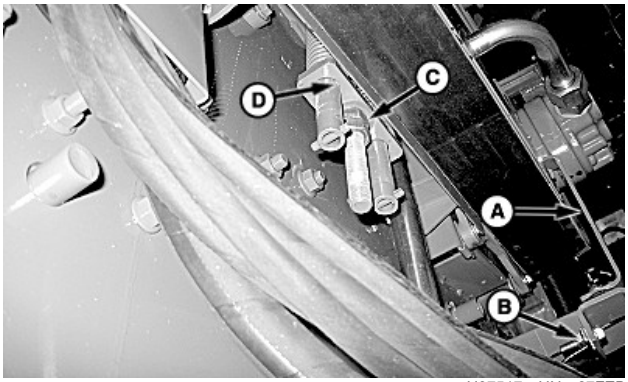


H90971—UN—05MAR08

A—Nuts
B—Drive Belt
C—Shield

NOTE: An equal gap is required on each side of drive belt and belt shield to prevent belt rubbing.

Install previously removed shield (C) and tighten nuts (A) to position washer between end of gauge and bottom of step to properly tension drive belt (B).



H87517—UN—27FEB07

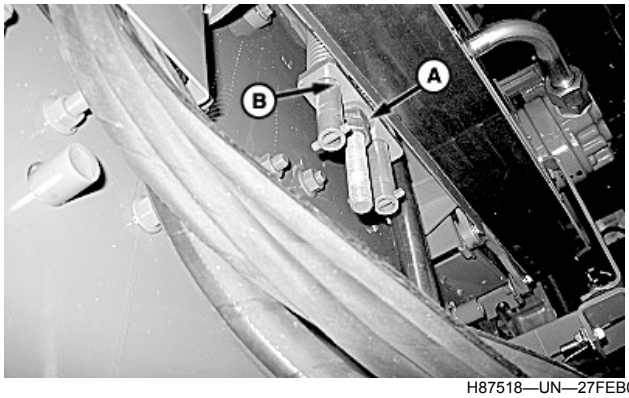
A—Brace
B—Cap Screw and Nut
C—Nuts
D—Holes

Install previously removed reel pump brace (A) and retain with cap screw and nut (B).

Tighten nuts (C) until holes (D) appear through gauge.

OUO6075,0000655-19-02FEB10

Header Reel/Belt Pickup Pump Belt (CommandTouch Multi-Speed Feeder House)—Adjusting



H87518—UN—27FEB07

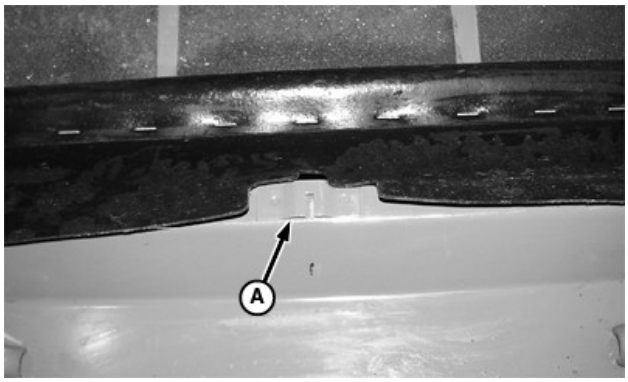
A—Nuts
B—Holes

CAUTION: Shut OFF engine, set parking brake and remove key.

Tighten nuts (A) until holes (B) appear through gauge.

OUO6075,0000656-19-02FEB10

Manual Tilt Indicator (Lateral Tilt System)



H62284A—UN—24JAN00

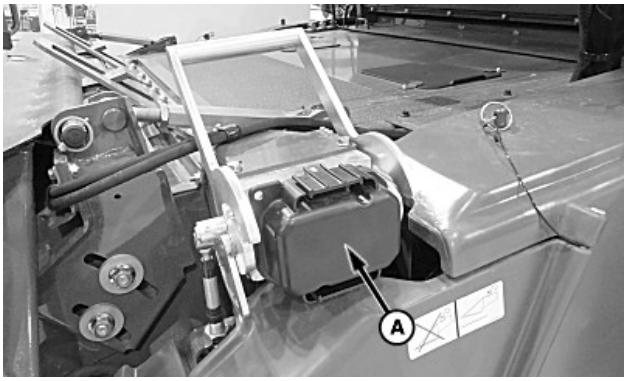
A—Notch

For a quick visual indication of whether header is level with machine chassis, the lateral tilt system is equipped with a manual tilt indicator.

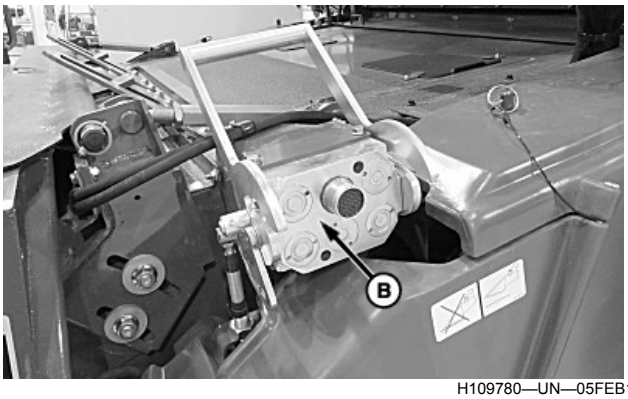
When notch (A) is in center of rubber seal, the header is approximately level with the machine body. Indicator may also be useful as a reference during operation.

OUO6075,000066E-19-02FEB10

Attach Multicoupler and Single Point Latching



H109779—UN—05FEB14



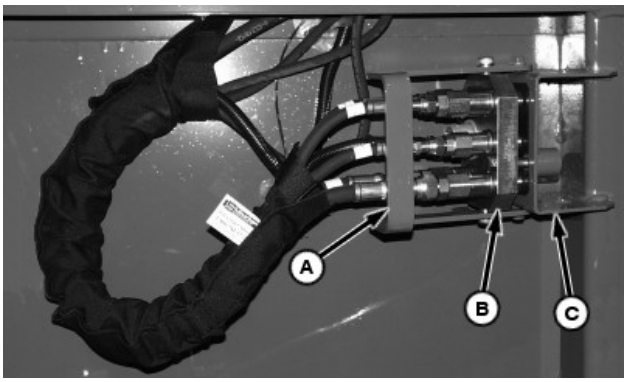
H109780—UN—05FEB14

A—Cover
B—Multicoupler Face

IMPORTANT: Do not actuate latch pins with the header on the ground. If multicoupler must be actuated with the header on the ground, unhook cable from handle.

To prevent hydraulic system contamination, clean the multicoupler surface with an electrical contact cleaner before connecting.

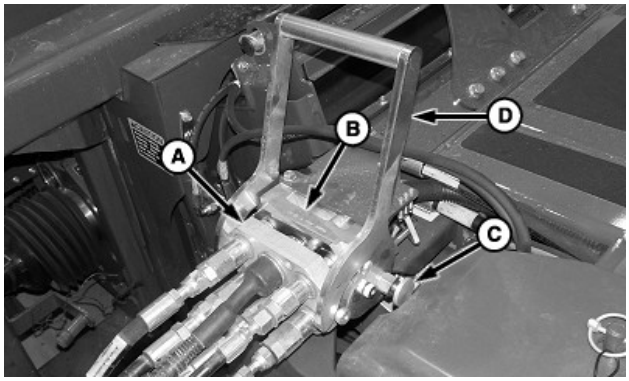
Remove cover (A) and clean the multicoupler face (B).



H70035—UN—19SEP01

A—Handle
B—Multicoupler
C—Storage Bracket

Open handle (A) and remove the multicoupler (B) from the storage bracket (C).



H123083—UN—29JAN18

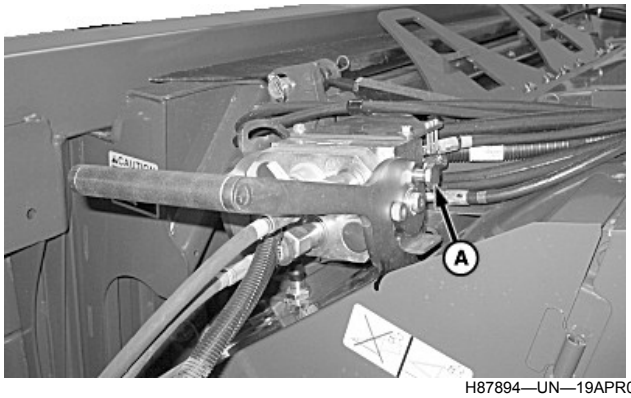
A—Multicoupler
B—Receptacle
C—Button Lock
D—Handle

IMPORTANT: To prevent hydraulic system contamination, clean the multicoupler surfaces with an electrical contact cleaner before connecting.

NOTE: To prevent damage to the latching cable, a shear screw is attached to the handle. Attempts to actuate latching pins with the header on the ground results in screw shearing. See Shear Screw Location later in this section.

Install the multicoupler (A) onto the receptacle (B).

Pull and hold the button lock (C) to close the handle (D).

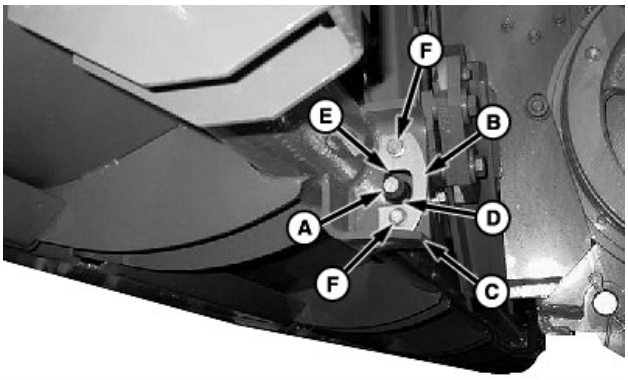


H87894—UN—19APR07

A—Button Lock

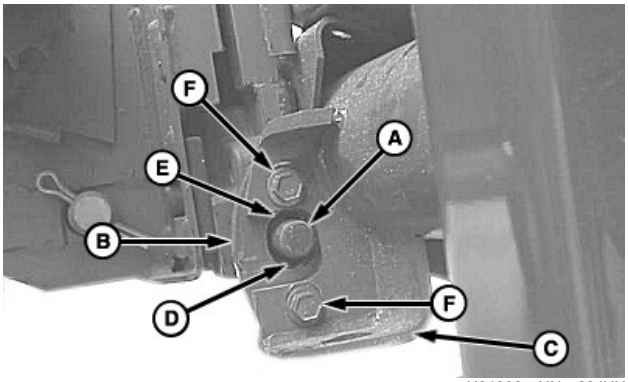
IMPORTANT: Failure to close the multicoupler fully so button lock can engage could result in the header falling off while harvesting or transporting.

When the multicoupler handle is fully closed, button lock (A) automatically locks the couplers together.



H81307—UN—28JUN04

Inside Latch Plate (M10 Cap Screws)



H81308—UN—28JUN04

Outside Latch Plate (M12 Cap Screws)

A—Latch Pin
B—Latching Plate
C—Bottom Bracket
D—Gap
E—Top Of Plate
F—Cap Screws

NOTE: With header attached, latch pins must move freely through the latch plate holes. If the latch pins do not extend through the latch plates, make sure that the latching plates on the header are properly adjusted.

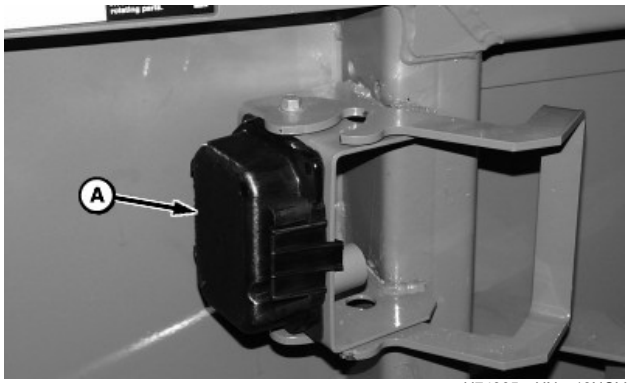
Latch pins (A) must move freely through the latch plate holes in the header when the multicoupler is latched. Latch plate (B) must contact bracket (C). Less clearance (D) must be maintained between the bottom of the plate and the pin rather than the top of plate (E) and pin. This may require the latch plate to be flipped.

If adjustment is needed: Remove cap screws (F), flip the plate end for end and reinstall.

Tighten cap screws to specification.

Specification	
Inside Latch Plate (M10 Cap Screws)—Torque	80 N·m (60 lb·ft)

Specification	
Outside Latch Plate (M12 Cap Screws)—Torque	130 N·m (96 lb·ft)



H74305—UN—18NOV02

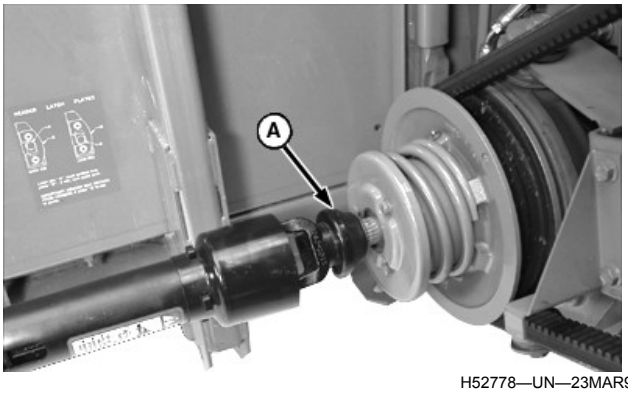
A—Cover

Install cover (A) onto platform storage position.

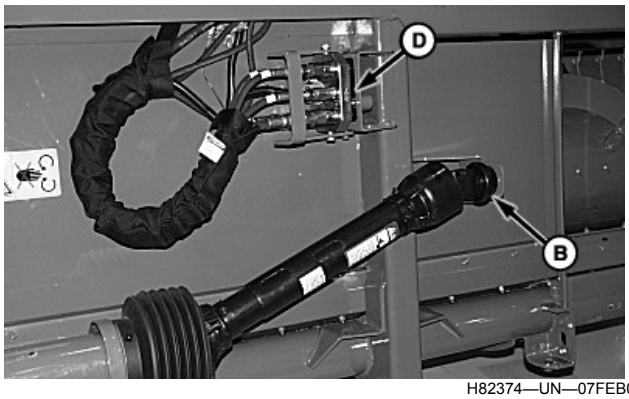
Remove the telescopic shaft from the storage position and install onto the feeder house backshaft, making sure the quick attach collar locks fully.

OUO6075,0004896-19-07FEB18

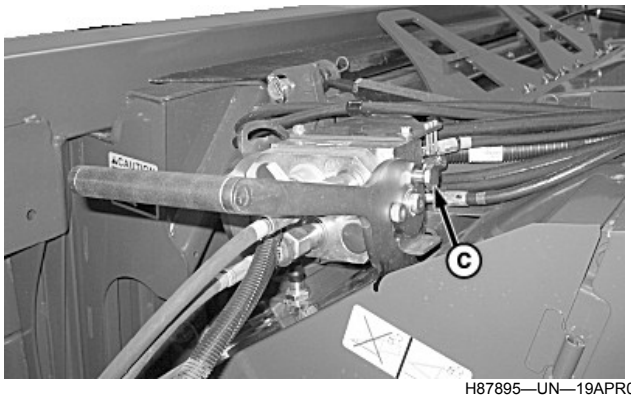
Attaching and Detaching Header from Feeder House



H52778—UN—23MAR99



H82374—UN—07FEB05



H87895—UN—19APR07

A—Quick Disconnect Coupler
B—Storage Position
C—Button Lock
D—Multi-Coupler Storage Position

CAUTION: Do not leave drive shafts on machine. Personal injury or machine damage may occur if feeder house is accidentally engaged.

IMPORTANT: Drive shafts with U-joints are used on left-hand and right-hand sides of all approved headers.

NOTE: For complete attaching and detaching procedures refer to header Operator's Manual.

Disconnect telescoping drive shaft from feeder house at quick disconnect coupler (A) on left and right sides.

Place telescoping drive shaft in storage position (B).

IMPORTANT: Latch pins are not to be actuated with header on ground. If multi-coupler must be actuated with header on ground, unhook cable from handle.

NOTE: Latch pins should be fully retracted when handle is up all the way against the stop. Adjust cable mounting if latch pins are not fully retracted (see Single Point Latching—Adjusting).

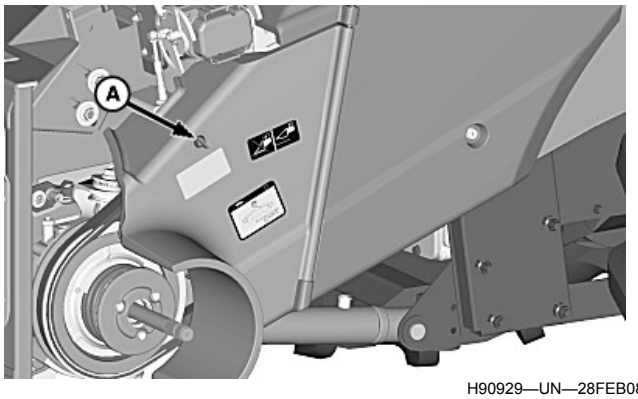
Pull and hold button lock (C) to release lock while raising handle to disconnect multi-coupler.

Remove multi-coupler cover from storage position on header and place cover on machine multi-coupler.

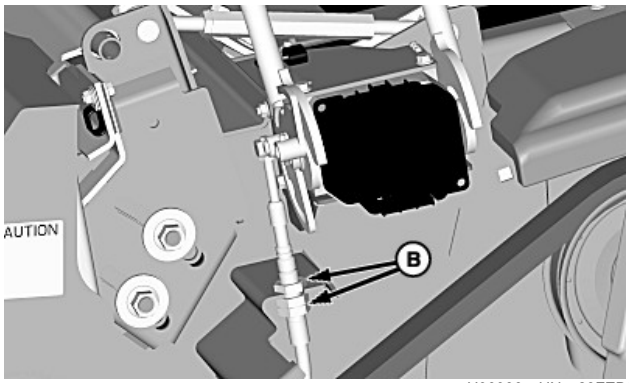
Place and lock multi-coupler in storage position (D).

OUO6075,0000670-19-02FEB10

Single Point Latching—Adjusting



H90929—UN—28FEB08



H90930—UN—28FEB08

A—Shield
B—Lock Nuts

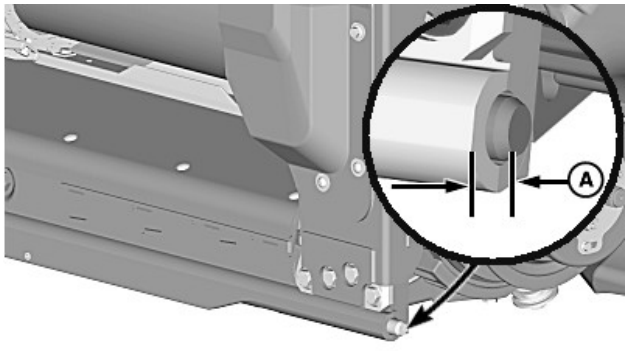
NOTE: Lateral Tilt Feeder House: Adjustments must only be made to cable at multi-coupler handle.

Open left-hand feeder house shield (A).

Loosen cable lock nuts (B).

IMPORTANT: Verify that handle is against stop on multi-coupler. Failure to verify that handle is against stop results in inaccurate pin dimensions and could result in header falling off while harvesting or transporting.

Rest multi-coupler handle against stop.



H90931—UN—05MAR08

Left-Hand Latching Pin

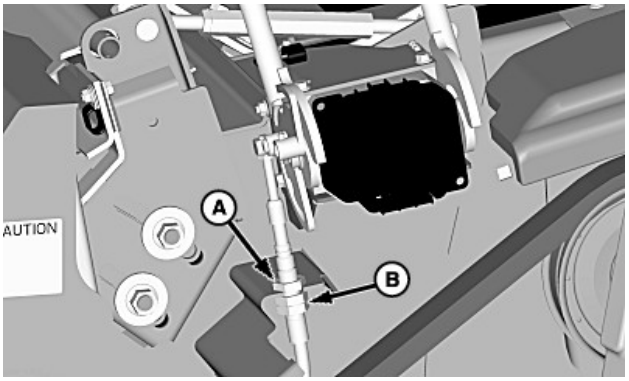
A—Dimension

NOTE: Moving cable "up" in bracket pulls pin farther in.

Moving cable "down" in bracket pushes pin farther out.

Adjust cable in bracket as needed for proper pin adjustment:

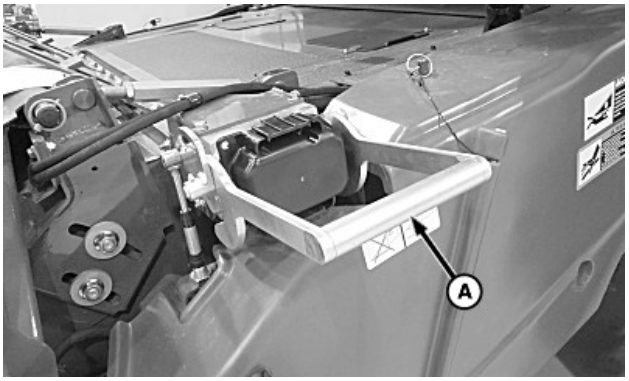
- Left-hand latching pin must be flush to +/- 2 mm (0.08 in.) (A).



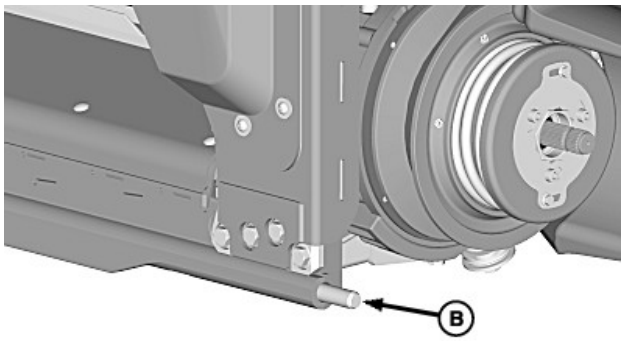
H90932—UN—28FEB08

A—Top Lock Nut
B—Bottom Lock Nut

Hold bottom lock nut (B) and tighten top lock nut (A).



H109781—UN—05FEB14



H90933—UN—28FEB08

A—Multi-Coupler Handle
B—Pins

IMPORTANT: Failure to verify that pins are set to specified dimensions could result in header falling off while harvesting or transporting.

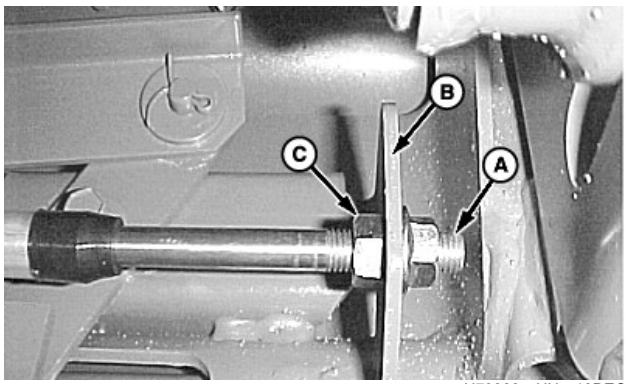
Fully lower multi-coupler handle (A) and verify pins (B) (both sides) are set to specification. Readjust if not set to specification.

Specification

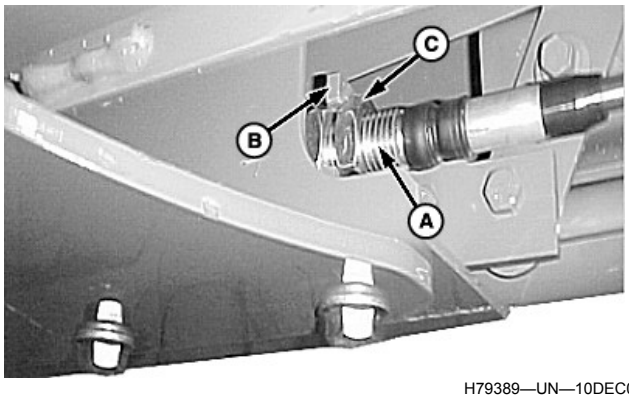
Feeder House Pins—Distance. . . . . 45—52 mm (1-3/4 in.—2 in.)

SS43267,000037C-19-05FEB14

Level Land Feeder House Lower Cable End —Adjusting



H79380—UN—10DEC03



H79389—UN—10DEC03

A—Threads
B—Bracket
C—Lock Nuts

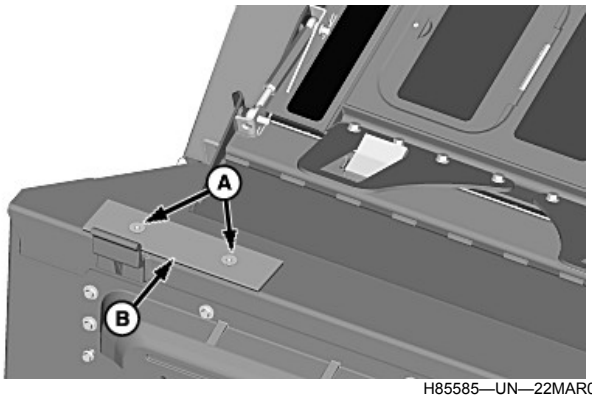
Adjustments should be made to lower end of latching cable if threads (A) are not centered in bracket (B).

Loosen lock nuts (C) and adjust cable so that threads are centered in bracket.

Tighten lock nuts.

OUO6075,0000672-19-02FEB10

Level Land Feeder House—Shim Adjusting



H85585—UN—22MAR06

A—Screws
B—Shim

NOTE: Tires must be inflated to equal air pressure for accurate leveling adjustment.

Header must be level when attached to feeder house.

Raise header to medium height.

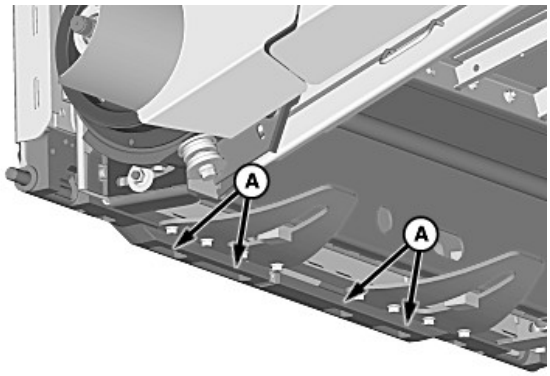
Take a position approximately 5 m (15 ft.) in front of header.

Compare bottom of header with machine front axle.

If header is not level, remove screws (A) and move shims (B) from side to side on top beam of feeder house to level header.

OUO6075,0000673-19-02FEB10

Feeder House Latching Pins (Cleanout)



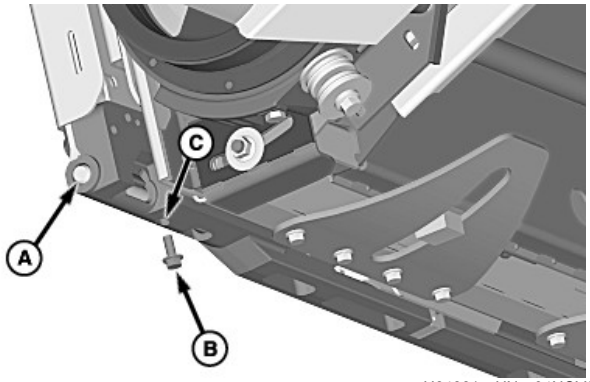
H84880—UN—04NOV05

A—Clean Out Locations

If latch pins move hard on lateral tilt feeder houses, clean crop debris from locations (A).

OUO6075,0000674-19-02FEB10

Feeder House Manual Unlatching



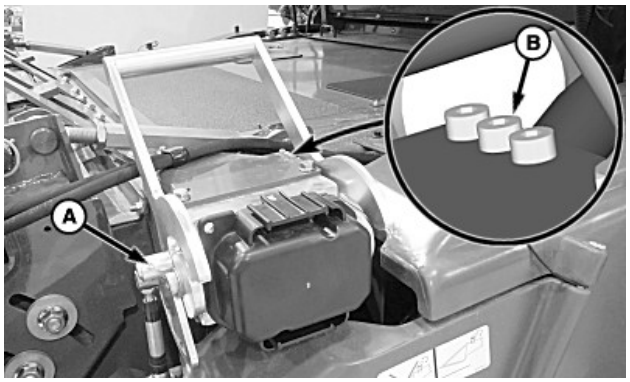
H84881—UN—04NOV05

A—Latching Pins
B—Cap Screw
C—Hole

To remove header if shear screw should fail, push latching pins (A) through latch plates and install M12 cap screw (B) in hole (C). Repeat on opposite side.

OUO6075,0000675-19-02FEB10

Shear Screw Location



H109782—UN—05FEB14

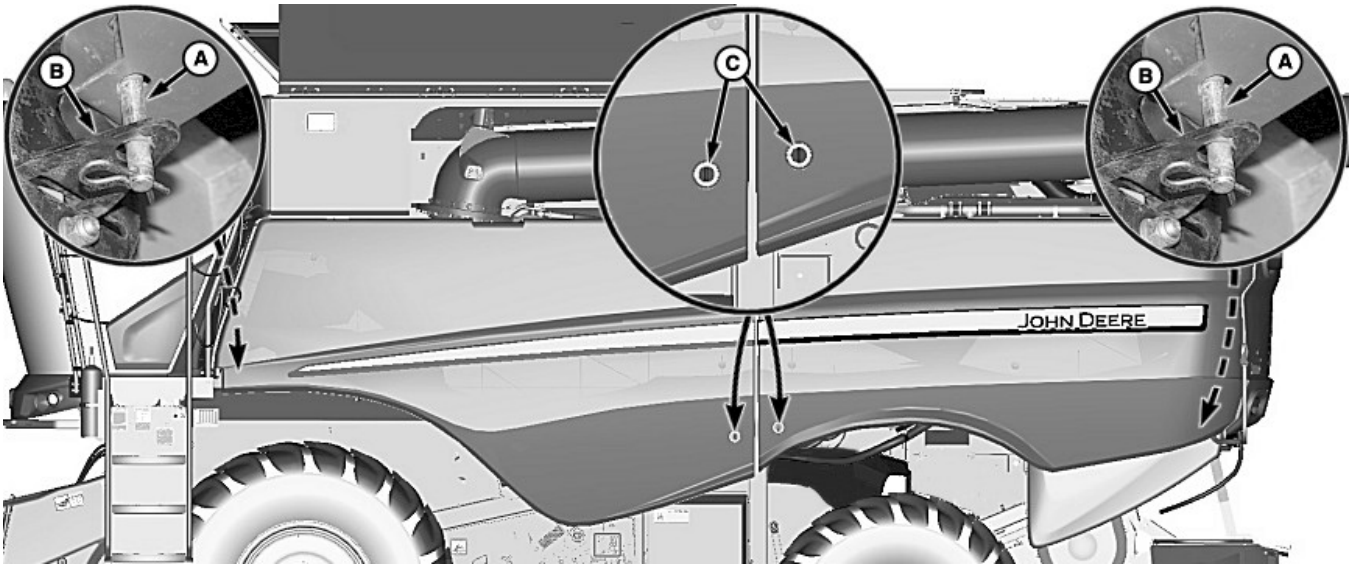
A—Shear Screw
B—Extra Shear Screws

NOTE: Three extra shear screws are provided.

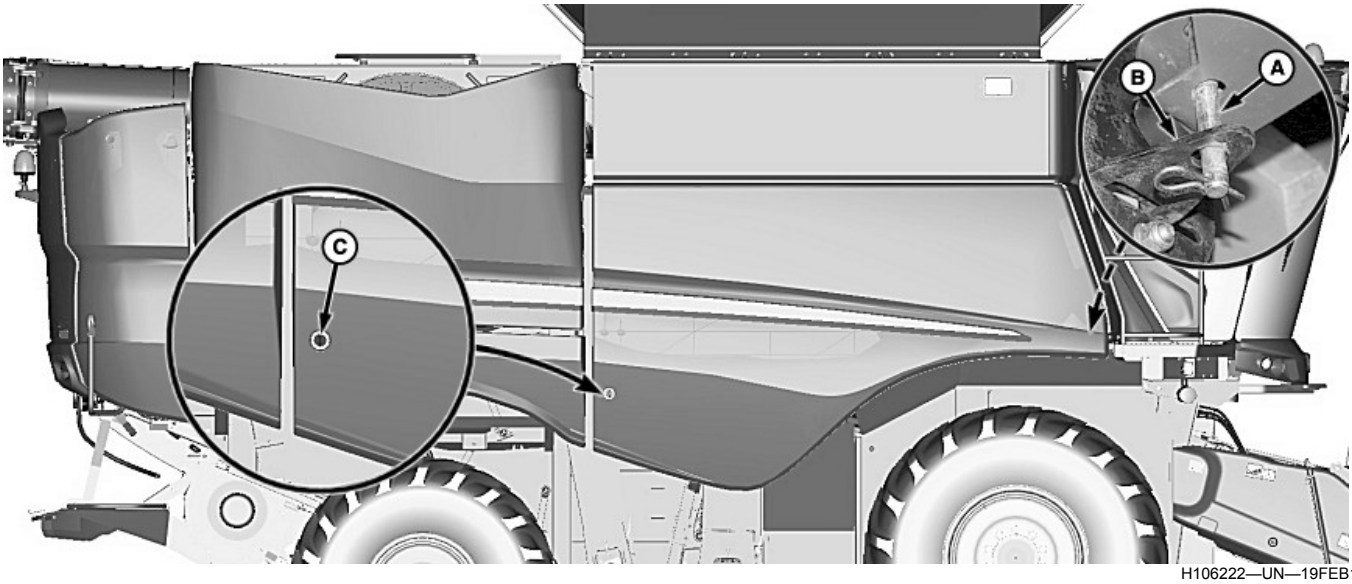
If shear screw (A) breaks, remove and replace with extra shear screw (B).

SS43267,000037A-19-05FEB14

Gull Wing Doors



H114481—UN—08JUN15



H106222—UN—19FEB13

A—Pin
B—Locking Plates
C—Latch

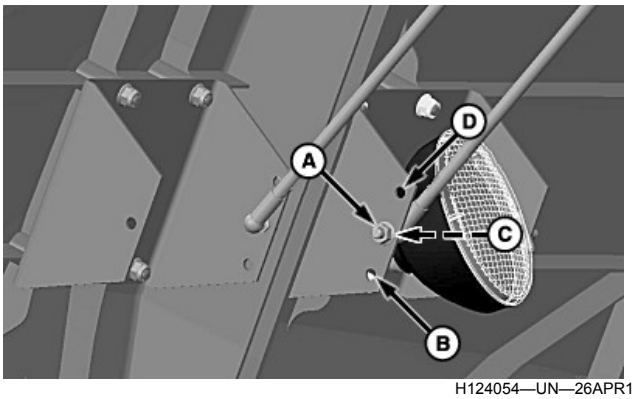
⚠ CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Pinning and latch lever operation is the same on both sides of machine.

1. Remove spring clip, and pin (A) from locking plate (B). Reinstall spring clip onto pin.
2. Turn latch (C) and pull out on the gull wing doors to raise.

OUO6075,0004942-19-26APR18

Gull Wing Door Cylinder Adjustment



H124054—UN—26APR18

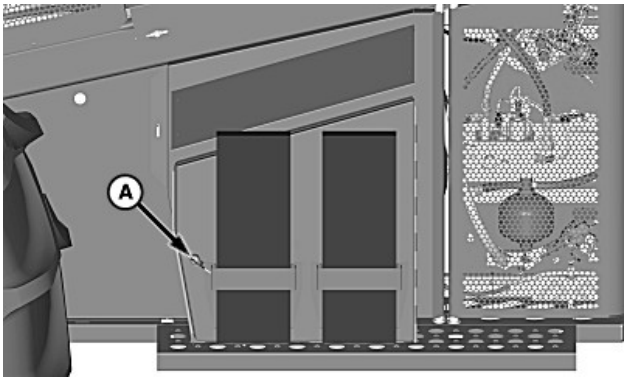
A—Nut
B—Bottom Hole
C—Middle Hole
D—Upper Hole

NOTE: Bottom hole is used to lower the overall height of the gull wing door when in the open position. Upper hole is used to raise the overall height of the gull wing door when in the open position.

Remove nut (A) from the cylinder and move to the desired hole (B—D).

OUO6075,0004943-19-07JUN18

Toolbox (If Equipped)



H116915—UN—14JAN16

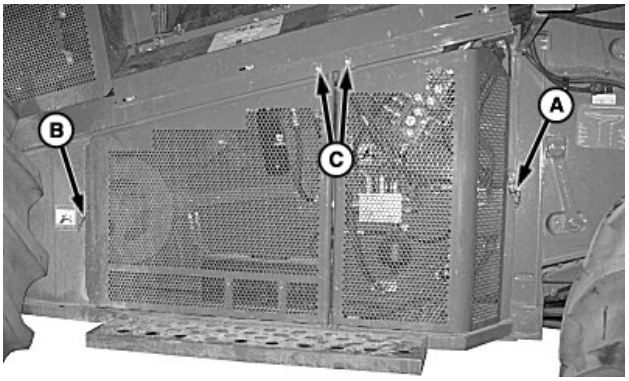
A—Latch

Turn latch (A) to open the toolbox door.

OUO6075,00041E3-19-11APR16

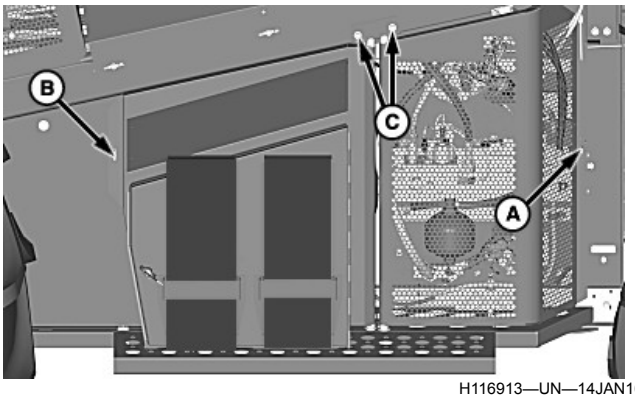
Left-Hand Side Shields

Side Shields (Style A)



H105327—UN—01MAY12

Shields (Without Toolbox)



H116913—UN—14JAN16

Shields (With Toolbox)

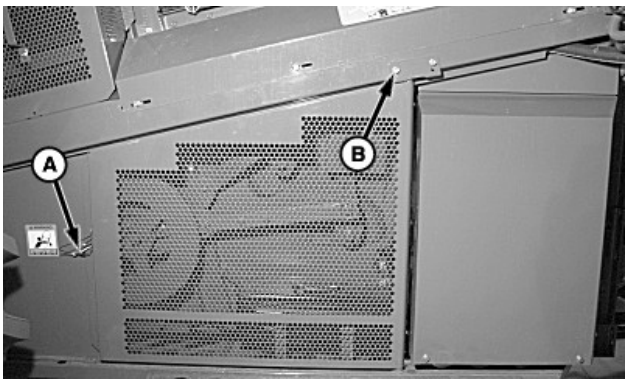
A—Quick-Lock Pin
B—Quick-Lock Pin
C—Cap Screws

CAUTION: Shut OFF engine, set park brake and remove key.

Remove quick-lock pin (A and B) to open shields.

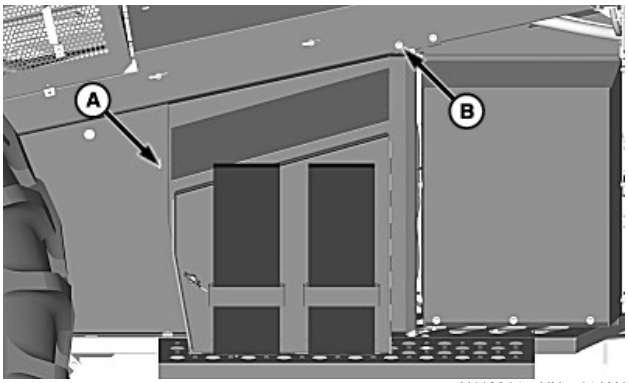
Remove cap screws (C) and lift shields to remove.

Side Shields (Style B)



H96802—UN—09JUN10

Shields (Without Toolbox)



H116914—UN—14JAN16

Shields (With Toolbox)

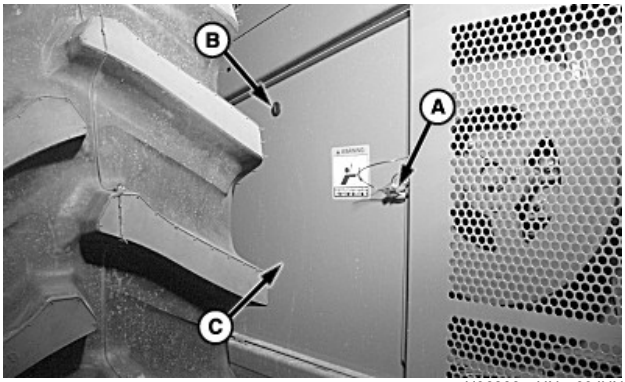
A—Quick-Lock Pin
B—Cap Screws

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

Remove quick-lock pin (A) to open shield.

Remove cap screws (B) and lift shield to remove.

Fan Shield

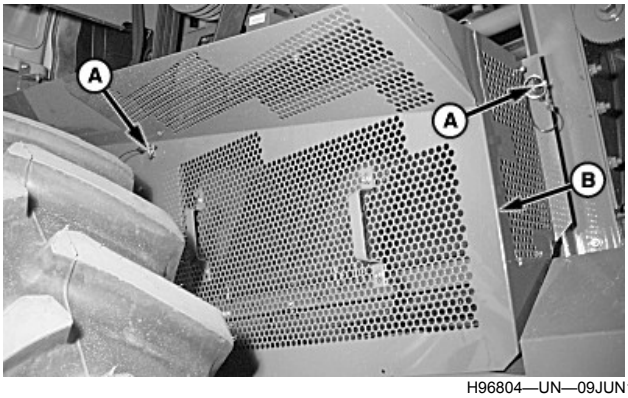


H96803—UN—09JUN10

A—Quick-Lock Pin
B—Latch
C—Shield

Remove quick-lock pin (A) and turn latch (B) to remove shield (C).

Upper Separator Shield

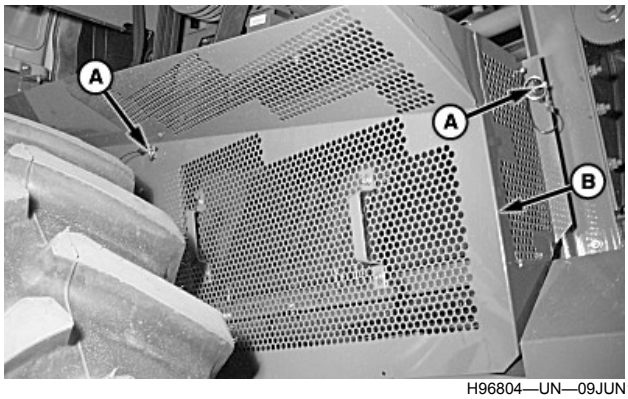


H96804—UN—09JUN10

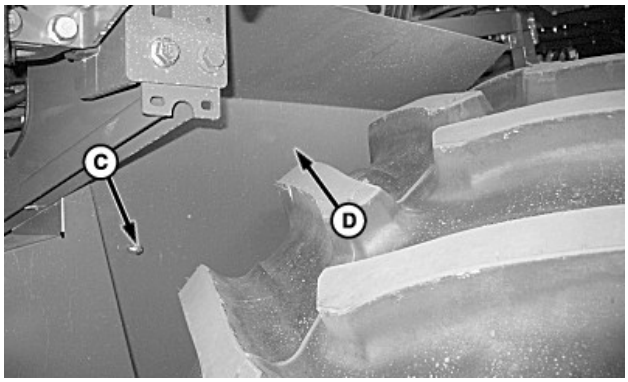
A—Quick-Lock Pins
B—Shield

Remove quick-lock pins (A) and remove shield (B).

Front Separator Shield



H96804—UN—09JUN10



H96805—UN—09JUN10

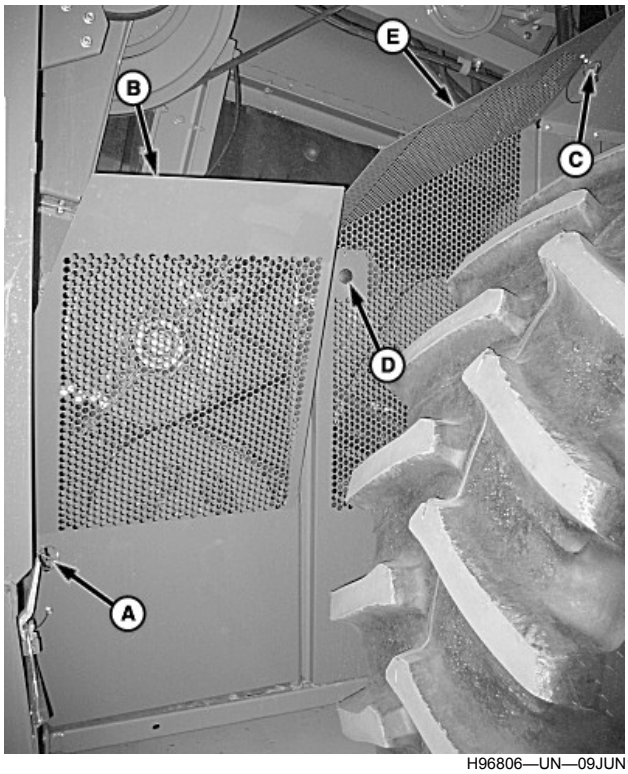
A—Quick-Lock Pins
B—Shield
C—Cap Screw
D—Shield

Remove quick-lock pins (A) and remove shield (B).

Remove cap screw (C) and push front separator shield (D) rearward to remove.

OUO6075,00044A1-19-20DEC16

Right-Hand Side Shields



H96806—UN—09JUN10

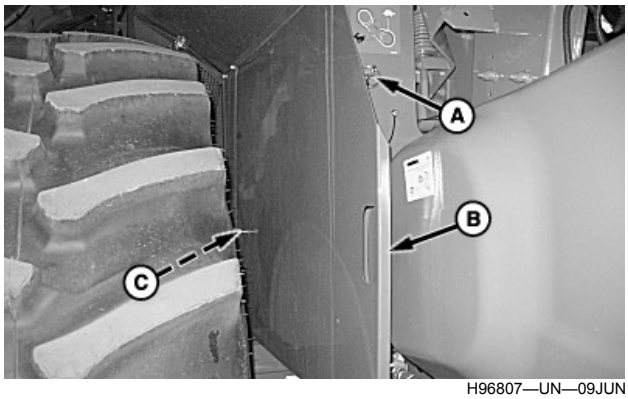
A—Quick-Lock Pin
B—Shield
C—Quick-Lock Pin
D—Latch
E—Shield

CAUTION: Shut OFF engine, set parking brake and remove key.

Rear Shield and Middle Fan Shield— Remove quick-lock pin (A) and open shield (B) to service belts.

Remove quick-lock pin (C) and turn latch (D) to unlock.

Lift and remove rear shield (B) and middle fan shield (E).



H96807—UN—09JUN10

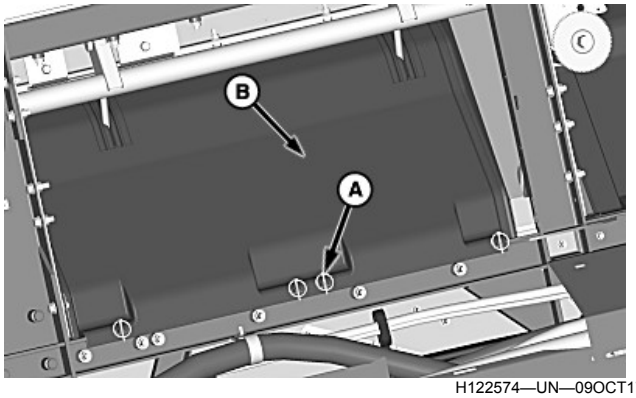
A—Quick-Lock Pin
B—Shield
C—Cap Screw

Front Separator Shield— Remove quick-lock pin (A) and pull shield (B) forward.

Remove cap screw (C) and remove shield.

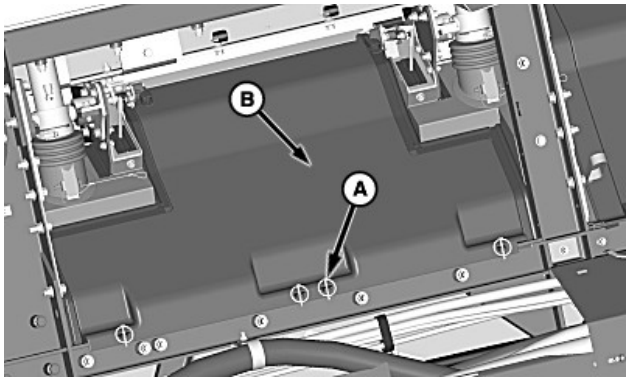
OUO6075,00007C7-19-28SEP10

Separator Covers



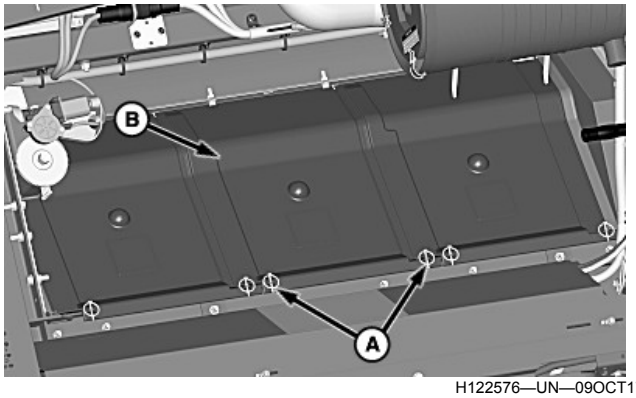
H122574—UN—09OCT17

Threshing Cover (Standard Concave Adjust)



H122575—UN—09OCT17

Threshing Cover (Active Concave Isolation)



H122576—UN—09OCT17

Separator Covers

A—Quick-Lock Pins
B—Covers

CAUTION: Shut OFF engine, set park brake and remove key.

IMPORTANT: To prevent grain loss, verify that separator covers are flush against separator and underneath the edge of the separator. Covers are installed starting from the left-hand side, as facing the machine and working to the right.

Do not lay covers in the hot sun or they become distorted.

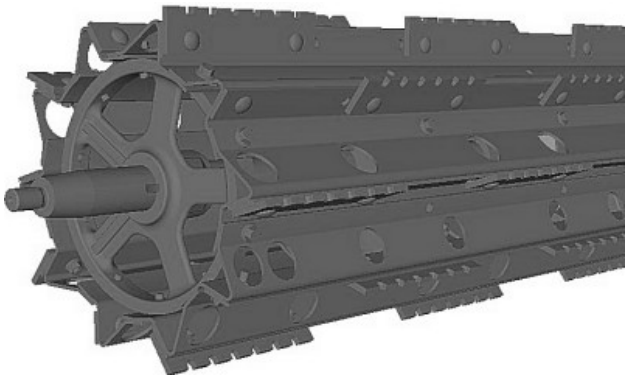
NOTE: One cover on the left-hand side of the machine and two covers on the right-hand side of the machine are used to seal the threshing section. Three covers on both sides of the machine are used to seal the separating section.

Quick-lock pins (A) are used to retain covers (B).

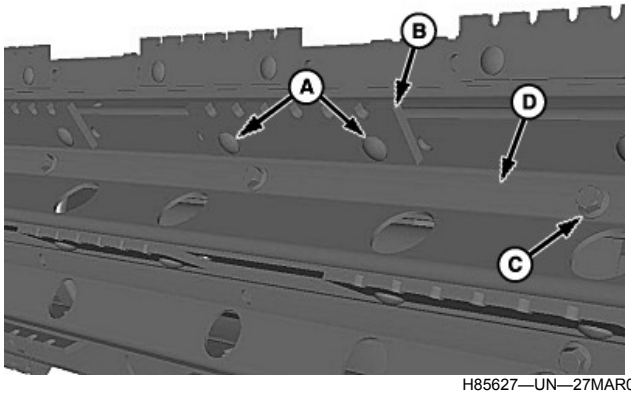
Remove quick-lock pins and remove covers.

OUO6075,00047C3-19-09OCT17

Standard Feed Accelerator Wear Strips—Replacing



H85626—UN—27MAR06



H85627—UN—27MAR06

Feed Accelerator Wings and Wear Strips (Standard)

A—Round Head Cap Screws
B—Feed Accelerator Wear Strip
C—Cap Screws
D—Feed Accelerator Wings

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Wear strips can be reversed for additional wear.

Feed accelerator wings and wear strips can be replaced without removing the feed accelerator. Replace feed accelerator wings and wear strips in sets of two and opposite of each other to maintain proper balance.

NOTE: If feed accelerator is removed from machine, or has been serviced, tighten clamp bolts before securing wings.

Remove round head cap screws (A) and replace feed accelerator wear strips (B) as required. Tighten round head cap screws to specification.

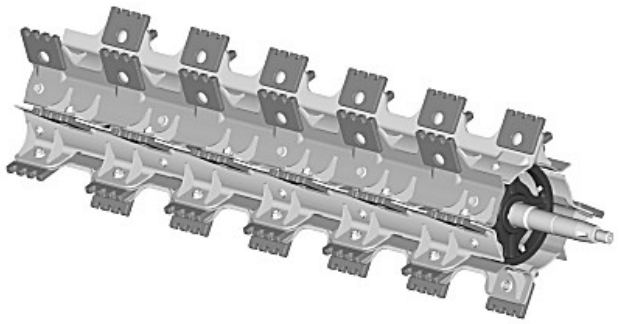
Specification	
Feed Accelerator Wear Strip Round Head Cap Screws—Torque	70 N·m (52 lb-ft)

Remove cap screws (C) and replace feed accelerator wings (D) as required. Tighten cap screws to specification.

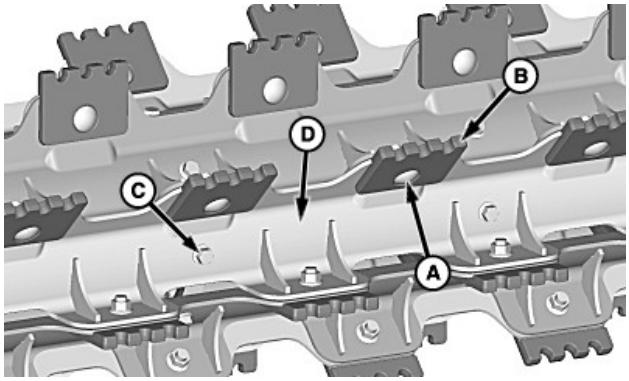
Specification	
Feed Accelerator Wing Cap Screws—Torque	70 N·m (52 lb-ft)

OUO6075,0001726-19-14JAN14

Tough Crop Feed Accelerator Wear Strips—Replacing



H107173—UN—06MAR13



H107174—UN—06MAR13

Feed Accelerator Wings and Wear Strips (Tough Crop)

A—Round Head Cap Screws
B—Feed Accelerator Wear Strip
C—Cap Screws
D—Feed Accelerator Wings

CAUTION: Shut OFF engine, set park brake and remove key.

Feed accelerator wings and wear strips can be replaced without removing the feed accelerator. Replace feed accelerator wings and wear strips in sets of two and opposite of each other to maintain proper balance.

NOTE: If the feed accelerator is removed from the machine, or has been serviced, tighten clamp bolts before securing wings.

Always replace hardware when replacing feed accelerator wear strips.

Remove round head cap screws (A) and replace feed accelerator wear strips (B) as required. Tighten round head cap screws to specification.

Specification

Feed Accelerator Wear Strip
Round Head Cap
Screws—Torque. . . . . 107 N·m (79 lb·ft)

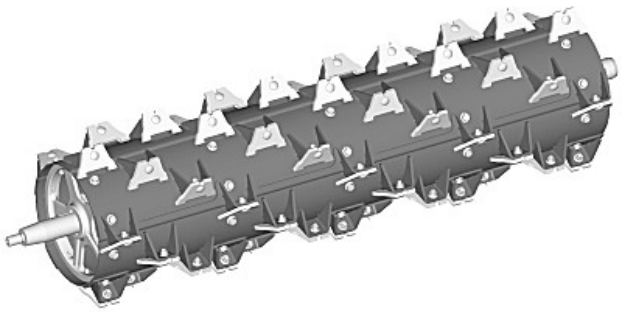
Remove cap screws (C) and replace feed accelerator wings (D) as required. Tighten cap screws to specification.

Specification

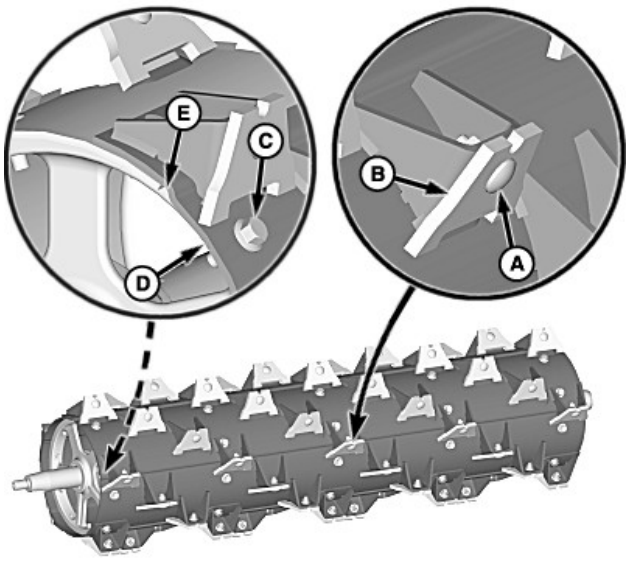
Feed Accelerator Wing Cap
Screws—Torque. . . . . 70 N·m (52 lb·ft)

OUO6075,0004A13-19-09AUG18

Tine Feed Accelerator Wear Strips—Replacing



H102209—UN—15JUN11



H102210—UN—15JUN11

Feed Accelerator Wings and Wear Strips

A—Round Head Cap Screws
B—Feed Accelerator Wear Strip
C—Cap Screws
D—Wing Assembly
E—Overlap Location

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

Feed accelerator wings and wear strips can be replaced without removing the feed accelerator.

Remove round head cap screws (A) and replace feed accelerator wear strips (B) as required. Tighten round head cap screws to specification.

Specification

Feed Accelerator Wear Strip
Round Head Cap
Screws—Torque. . . . . 73 N·m (54 lb.-ft.)

Remove cap screws (C) and replace wing assembly (D) as required.

IMPORTANT: Feed accelerator must be statically balanced. Add washers as needed until feed accelerator is balanced.

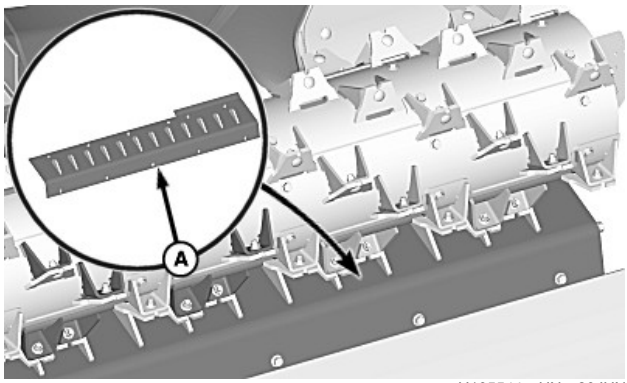
Install wing assembly so it overlaps at location (E) as shown. Tighten cap screws to specification.

Specification

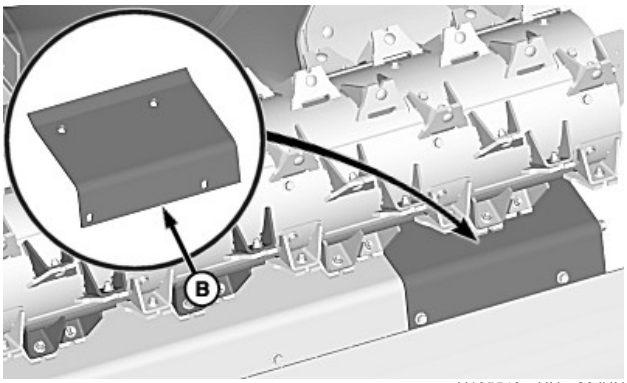
Feed Accelerator Wing
Assembly Cap Screws—Torque. . . . . 73 N·m (54 lb.-ft.)

OUO6075,0001729-19-14JAN14

Tine Feed Accelerator Comb Floor (Rice Machines)



H105544—UN—20JUN12



H105543—UN—20JUN12

A—Comb Floor
B—Smooth Liner Plate

NOTE: Machine is shipped from the factory with the comb floor installed. Comb floor can only be run with the tine feed accelerator.

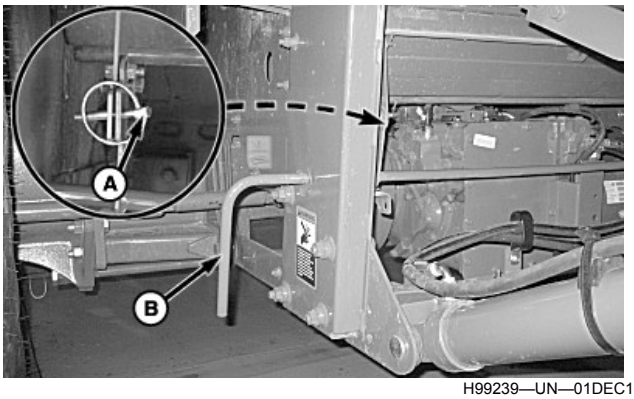
When the comb floor (A) is removed for harvest, the smooth liner plate (B) which was shipped with the machine must be installed (left side of the machine).

Non-Rice Harvest Information

- Corn - Remove comb floor and install smooth liner plate.
- Soybeans - If splits become a concern, remove comb floor and install smooth liner plate.
- Small Grains - Remove the comb floor and install smooth liner plate.

OUO6075,0004557-19-02DEC16

Tine Feed Accelerator Comb Floor (Rice Machines)—Removing



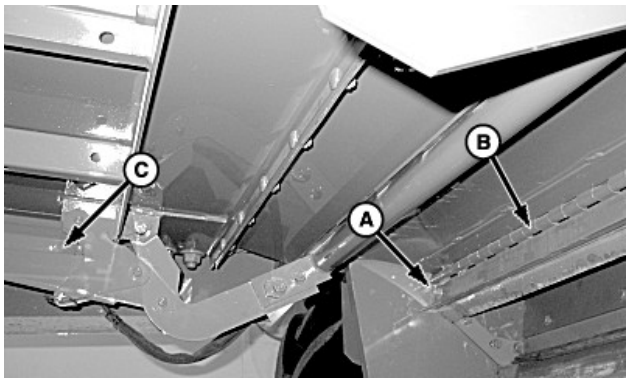
H99239—UN—01DEC10

A—Quick-Lock Pin
B—Lever

CAUTION: Raise feeder house, lower safety stop, shut OFF engine, set park brake and remove key.

Remove quick-lock pin (A) and move lever (B) up to open stone trap.

Feed Plate (Style A)



H86271—UN—10JUL06

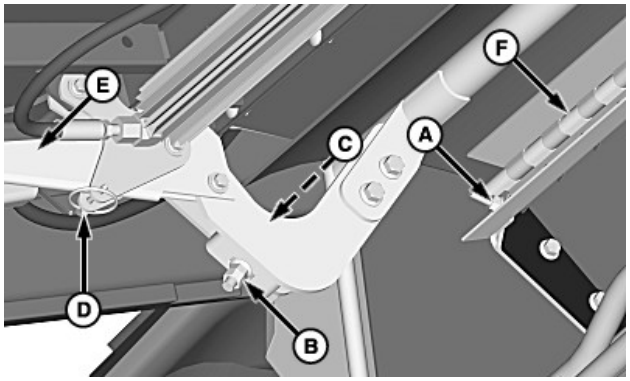
A—Cap Screws and Nuts
B—Feed Plate Assembly
C—Lever

Remove and retain cap screws and nuts (A) on both sides of the machine.

Remove quick-lock pin and move lever (C) down and rearward while removing feed plate assembly (B) at the same time.

Raise lever (C) and retain with previously removed quick-lock pin.

Feed Plate (Style B)



H120117—UN—29NOV16

A—Cap Screws and Nuts
B—Nuts
C—Round Head Bolt
D—Quick-Lock Pin
E—Lever
F—Feed Plate Assembly

Remove and retain cap screws and nuts (A) on both sides of the machine.

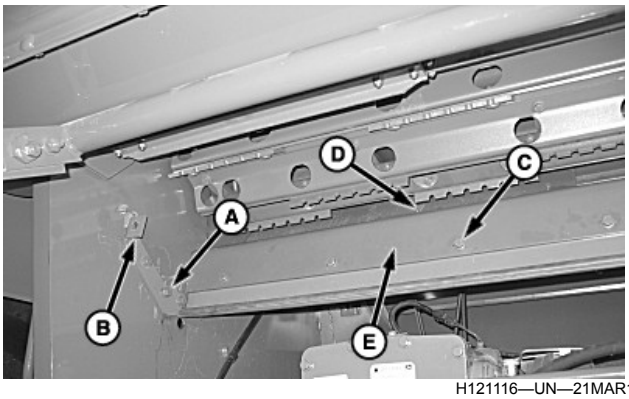
Remove nuts (B) and round head bolt (C) on both sides of the machine.

Remove quick-lock pin (D) and move lever (E) down and rearward while removing feed plate assembly (F) at the same time.

Raise lever (E) and retain with previously removed

round head bolt (C) and retain with previously removed nuts (B) on both sides of the machine.

Install previously removed quick-lock pin (D).



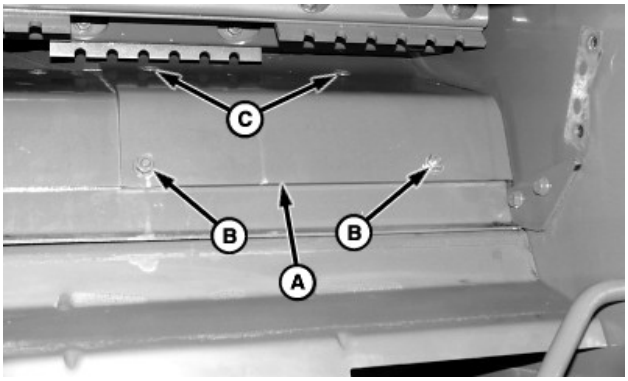
H121116—UN—21MAR17

A—Hardware (2 used)
B—Brackets (2 used)
C—Cap Screws and Nuts (5 used)
D—Plow Bolts
E—Comb Floor

Remove and retain hardware (A) and bracket (B) from both sides of the machine.

Remove and retain cap screws and nuts (C).

Remove and retain plow bolts (D) and remove the comb floor (E).



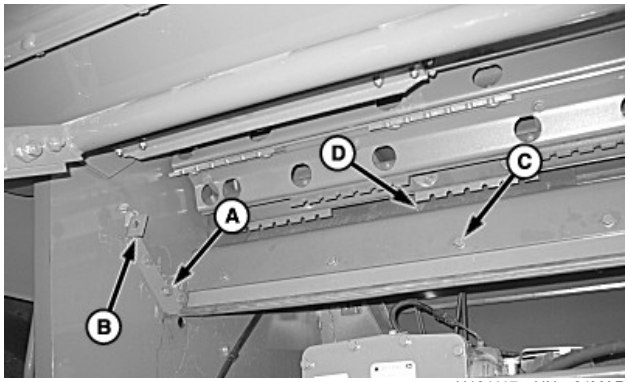
H105545—UN—21JUN12

A—Smooth Liner Plate
B—Cap Screws and Nuts (2 used)
C—Plow Bolts (2 used)

Install smooth liner plate (A) shipped with the machine on the left-hand side.

Install previously removed cap screws and nuts (B).

Install previously removed plow bolts (C).



H121117—UN—21MAR17

A—Hardware (2 used)
B—Brackets (2 used)
C—Cap Screws and Nuts (3 used)
D—Plow Bolts (3 used)

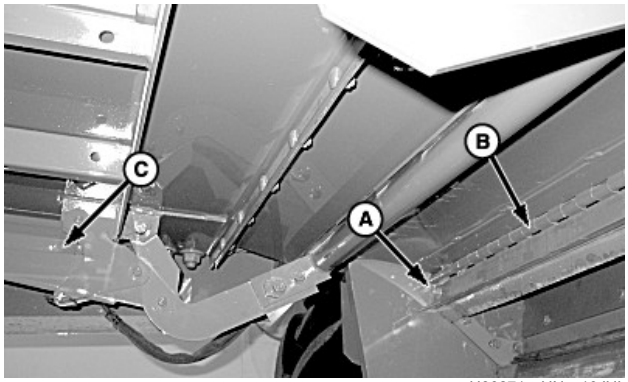
NOTE: Plow bolt must be installed in holes that previously held comb floor to prevent grain loss.

Install previously removed plow bolts (D).

Install previously removed cap screws and nuts (C).

Install previously removed bracket (B) on both sides of the machine and retain with previously removed hardware (A).

Feed Plate (Style A)



H86271—UN—10JUL06

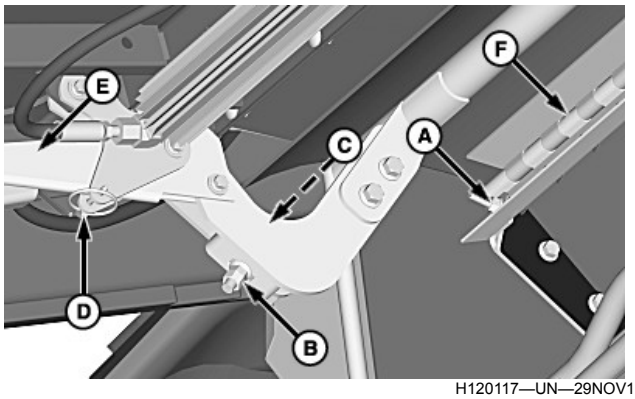
A—Cap Screws and Nuts
B—Feed Plate Assembly
C—Lever

Remove quick-lock pin and move lever (C) down and rearward.

Install previously removed feed plate assembly (B) and retain with previously removed cap screws and nuts (A) on both sides of the machine.

Push lever forward and up to close feed plate door and retain with previously removed quick-lock pin.

Feed Plate (Style B)



H120117—UN—29NOV16

A—Cap Screws and Nuts
B—Nuts
C—Round Head Bolt
D—Quick-Lock Pin
E—Lever
F—Feed Plate Assembly

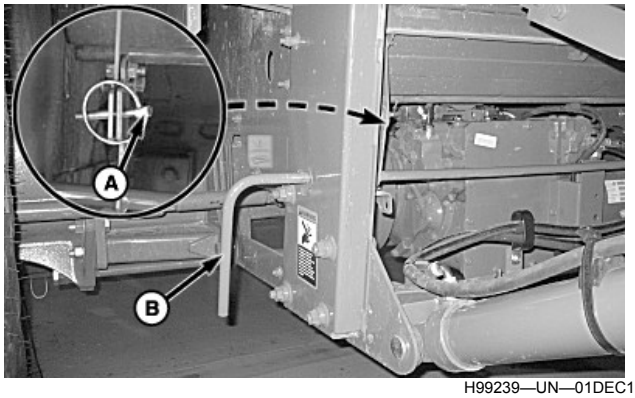
Remove nuts (B) and round head bolt (C) on both sides of the machine.

Remove quick-lock pin (D) and move lever (E) down and rearward.

Install previously removed feed plate assembly (F) and retain with previously removed cap screws and nuts (A) on both sides of the machine.

Raise lever (E) and retain with previously removed round head bolt (C) and retain with previously removed nuts (B) on both sides of the machine.

Install previously removed quick-lock pin (D).



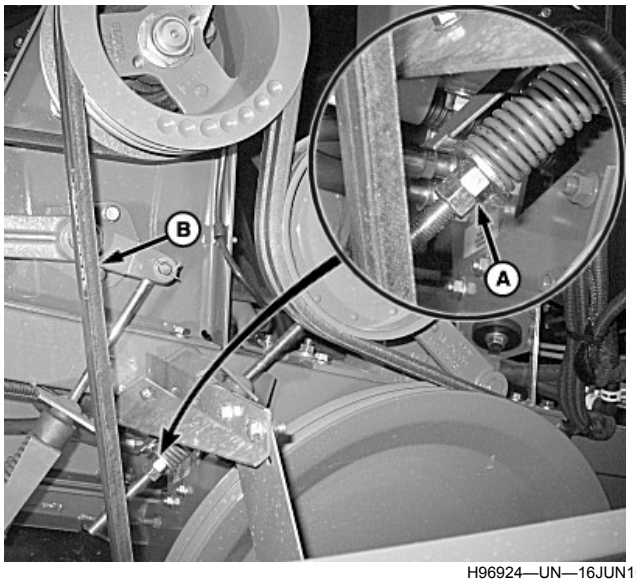
H99239—UN—01DEC10

A—Quick-Lock Pin
B—Lever

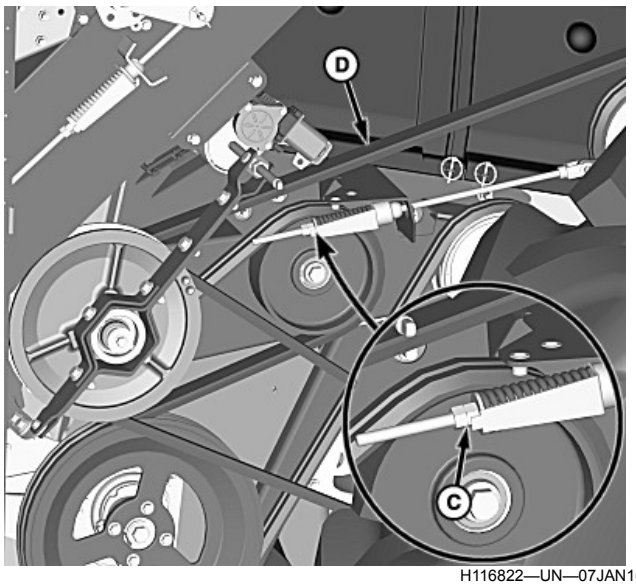
Move lever (B) down to close stone trap and retain with quick-lock pin (A).

OUO6075,00046A7-19-21MAR17

Feed Accelerator Belt—Replacing



H96924—UN—16JUN10



H116822—UN—07JAN16

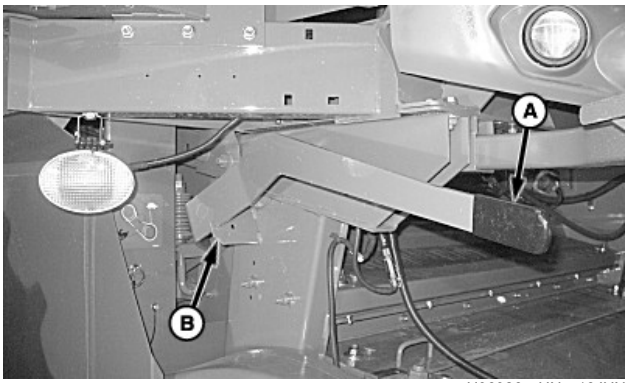
A—Nuts
B—Front Jackshaft Belt
C—Nuts
D—Belt

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nuts (A) to remove tension from the front jackshaft belt (B).

Loosen nuts (C) to remove tension on shoe, fan, and conveyor auger belt (D).

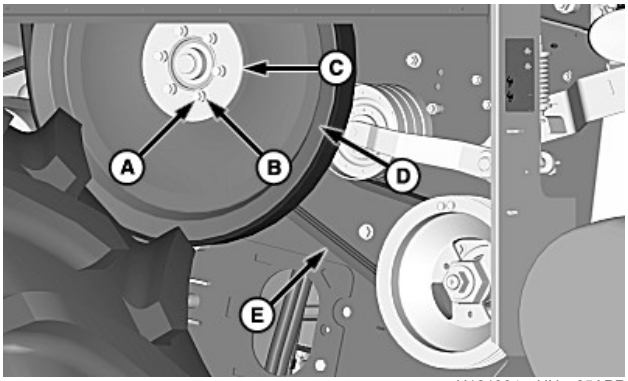
Remove both belts to allow removal of the feed accelerator belt.



H96926—UN—16JUN10

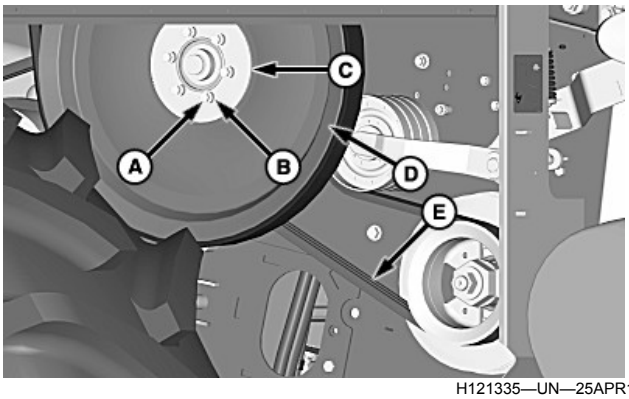
A—Lever
B—Bracket

Push lever (A) up and out of notch in bracket (B) to relieve belt tension from the accelerator belt.



H121334—UN—25APR17

Feed Accelerator Belt (Standard Speed High Capacity)



H121335—UN—25APR17

Feed Accelerator Belt (High-Speed High Capacity)

A—Cap Screw (6 used)
B—Spacer (6 used)
C—Shim (2 used)
D—Sheave
E—Feed Accelerator Belt

Remove cap screws (A), spacers (B), shims (C), and sheave (D).

Remove feed accelerator belt (E) and install replacement belt.

Install sheave, shims, spacers, and retain with cap screws.

Tighten cap screws to specification.

Specification

Cap Screws—Torque. . . . . 70 N·m (52 lb·ft)

Push up lever and into the notch in bracket.

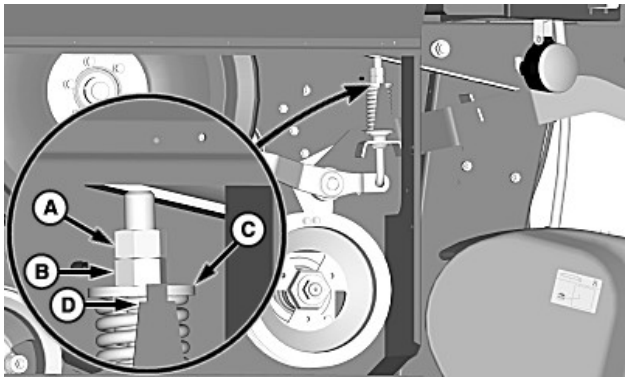
Adjust feed accelerator belt tension so washer is positioned between end of gauge and bottom of step.

Install shoe, fan, and conveyor auger belt and front jackshaft belt.

Adjust tension for belts so washer is positioned between end of gauge and bottom of step.

OUO6075,0004727-19-25APR17

Feed Accelerator Belt—Adjusting



H121336—UN—25APR17

A—Nut
B—Nut
C—Washer
D—Gauge

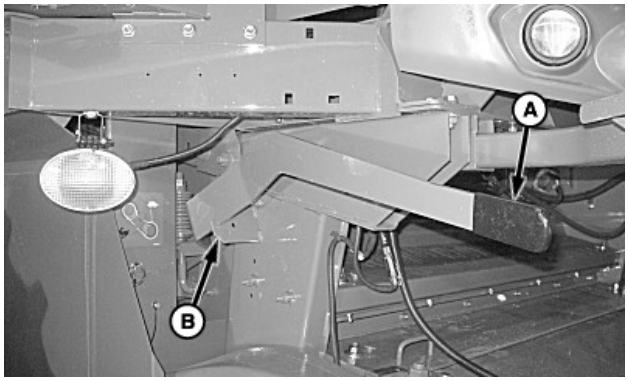
CAUTION: Shut OFF engine, set park brake and remove key.

Feed accelerator belt idler is on the right-hand side of the machine behind the feeder house pivot.

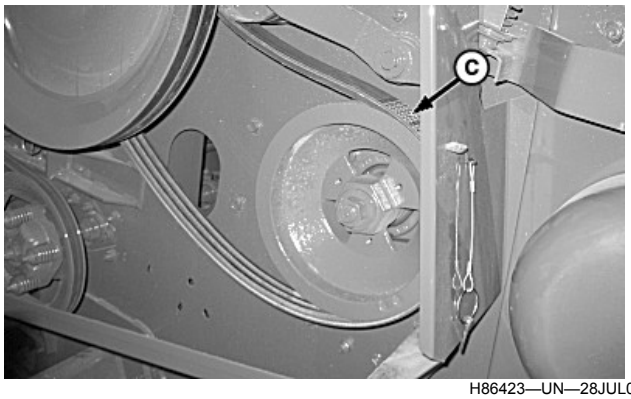
Loosen nut (A) and tighten the nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,0004728-19-25APR17

Standard Speed High Capacity Feed Accelerator—Changing Speed



H96926—UN—16JUN10



H86423—UN—28JUL06

A—Lever
B—Bracket
C—Belt

NOTE: Refer to Crop Settings section for recommended feed accelerator speed settings.

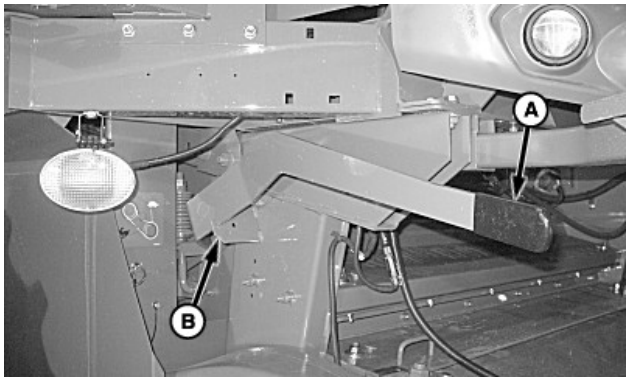
When changing separator speeds make sure to cycle power ON and OFF to recognize new speed range.

To change feed accelerator speed to high speed position:

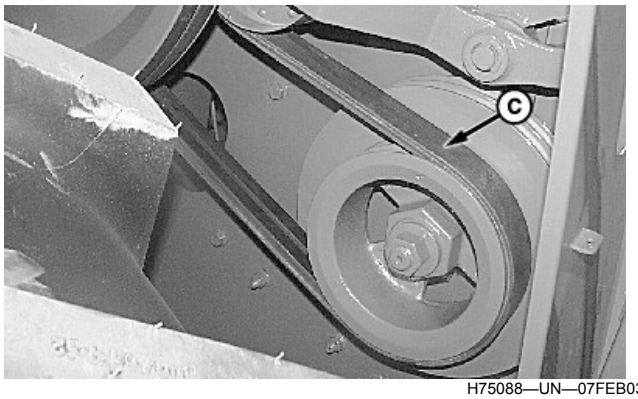
- Push lever (A) up and out of notch in bracket (B) to relieve belt tension.
- Move belt (C) to inside sheave grooves on both sheaves for high speed.
- Push lever up and into notch in bracket to reset belt tension.

OUO6075,00007F2-19-27OCT10

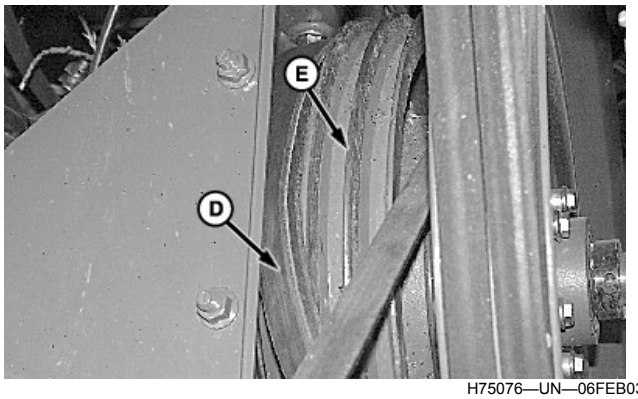
High Speed High Capacity Feed Accelerator —Changing To Slow Speed



H96926—UN—16JUN10



H75088—UN—07FEB03



H75076—UN—06FEB03

A—Lever
B—Bracket
C—Belt
D—Belt
E—Upper Sheave

NOTE: Refer to Crop Settings section for recommended feed accelerator speed settings.

When changing separator speeds make sure to cycle power ON and OFF to recognize new speed range.

To change feed accelerator speed to low speed position:

- Push lever (A) up and out of notch in bracket (B) to relieve belt tension.
- Remove belt (C) from lower sheave and let belt hang freely from upper sheave.

NOTE: Belt must be twisted to fit between upper sheave and sidesheet.

- Remove belt (D) from upper sheave (E) and move to inside sheave for low speed.
- Install belt (C) on inner sheave groove on lower sheave.
- Push lever up and into notch in bracket to reset belt tension.

OUO6075,00007F3-19-14JUN11

Concave Recommendations

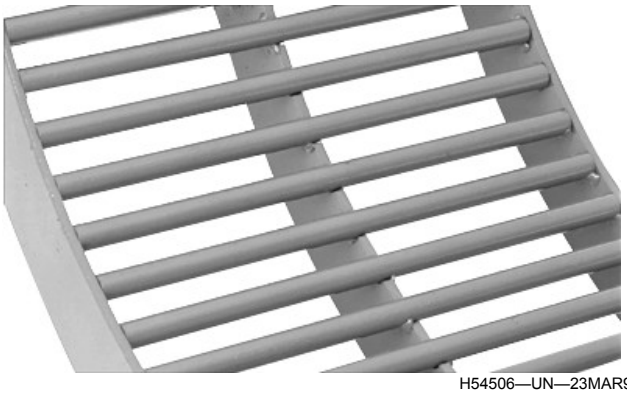
NOTE: For recommended machine settings for various crops, refer to Crop Setting section for further information.

Concave Type	Corn	Soybeans	Wheat Barely Small Grains	Rice	Popcorn Food Corn	Sorghum (Milo) Sunflowers (Confection)	Sunflowers (Oil)	Canola
Small Wire	NR	NR	Best	NR	NR	NR	Average	Best
Large Wire	Good	Good	Good	Best	NR	Best	Best	Good
Round Bar	Best	Best	Average	Good	Best	Average	Best	Average

Best = Provides best level of performance.
Good = Provides a good level of performance.
Average = Provides an average level of performance.
NR = Not recommended.

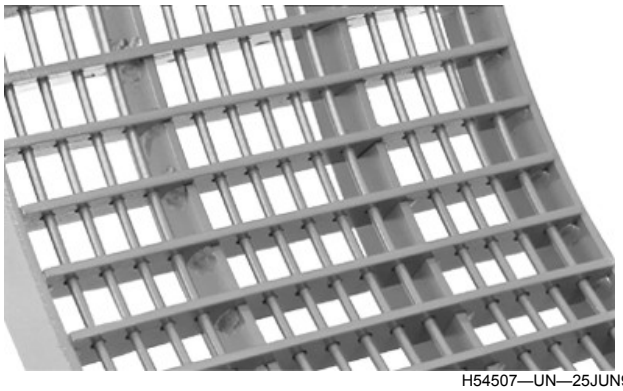
OUO6075,00017E2-19-07MAY14

Concave Types



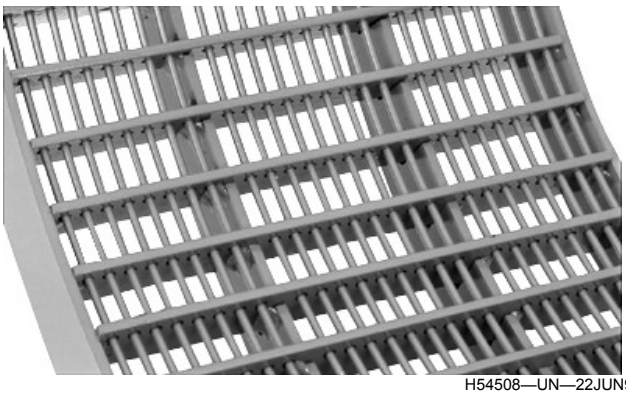
H54506—UN—23MAR99

Round Bar Multi Crop Concave



H54507—UN—25JUN99

Large Wire Concave



H54508—UN—22JUN99

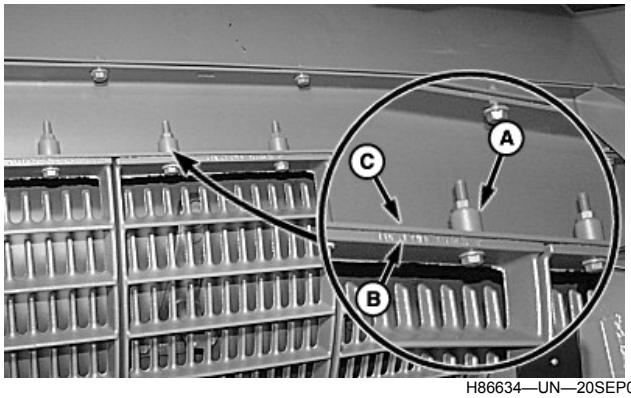
Small Wire Concave

Three different concaves are available for different crop and crop conditions.

- Round bar multi crop concave is used for corn and soybeans.
- Large wire concave is used for rice, soybeans, and grain sorghum.
- Small wire concave is used for small grains.

OUO6075,00007A8-19-02JUN10

Separator Grate Spacers



H86634—UN—20SEP06

A—Spacers
B—Separator Grates
C—Separator Channel

Spacers are installed in storage position (as shown) from factory.

Spacers can be used in corn to reduce bits of cob in the grain tank sample.

IMPORTANT: Spacers should be used in corn and soybeans only. Remove spacers for all other crops (place spacers in storage position as shown).

Remove all separator grate spacers (A) from storage position (as shown) and install between separator grates (B) and separator channel (C).

OUO6075,0000B06-19-03JAN11



H107178—UN—06MAR13

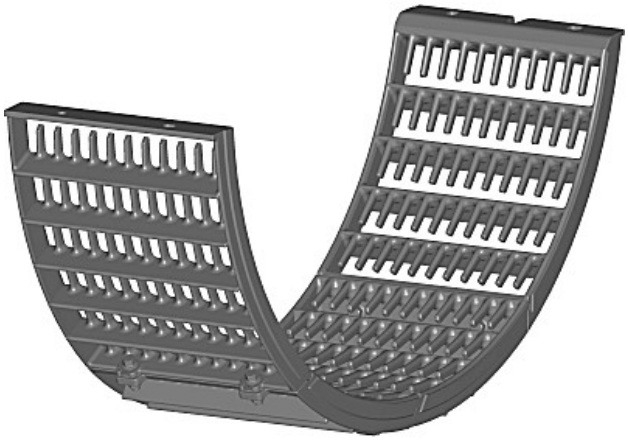
Heavy-Duty Separator Grate

Two different separator grates options are available for the machine.

- Standard Cast Separator Grates - come standard on all machines, except for rice and small tough grain packages.
- Heavy-Duty Separator Grates - are used in tough crop situations. These grates are option on all Variable Stream Rotor machines, but standard on small tough grains, rice, and tough rice packages.

SS43267,00004EB-19-05FEB15

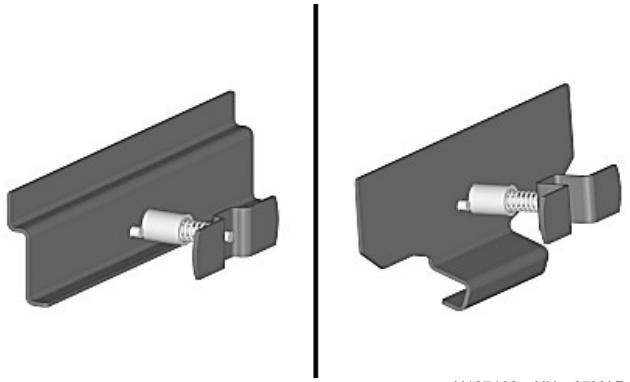
Separator Grate Types



H107177—UN—06MAR13

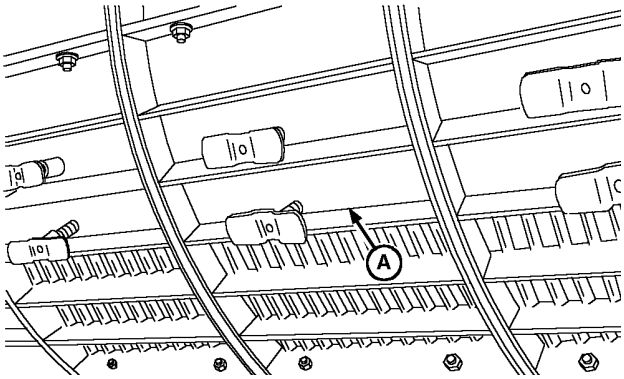
Standard Cast Separator Grate

Separator Grate Covers (If Equipped)



H107180—UN—07MAR13

Standard Cast Grate Covers/Heavy-Duty Grate Covers



H54512—UN—01APR99

A—Separator Grate Covers

Recommended for very dry small grain. Covers (A) are installed on separator grates to help balance chaff load to cleaning shoe.

Standard Cast Grate Covers

- Install two rows (eight covers) on right-hand side and three rows (twelve covers) on left-hand side. Make adjustments as necessary depending on conditions.

Heavy-Duty Grate Covers

- Install one row (four covers) on right-hand side and two rows (eight covers) on left-hand side. Make adjustments as necessary depending on conditions.

OUO6075,0001410-19-08MAR13

Separator Grate Interrupters (If Equipped)



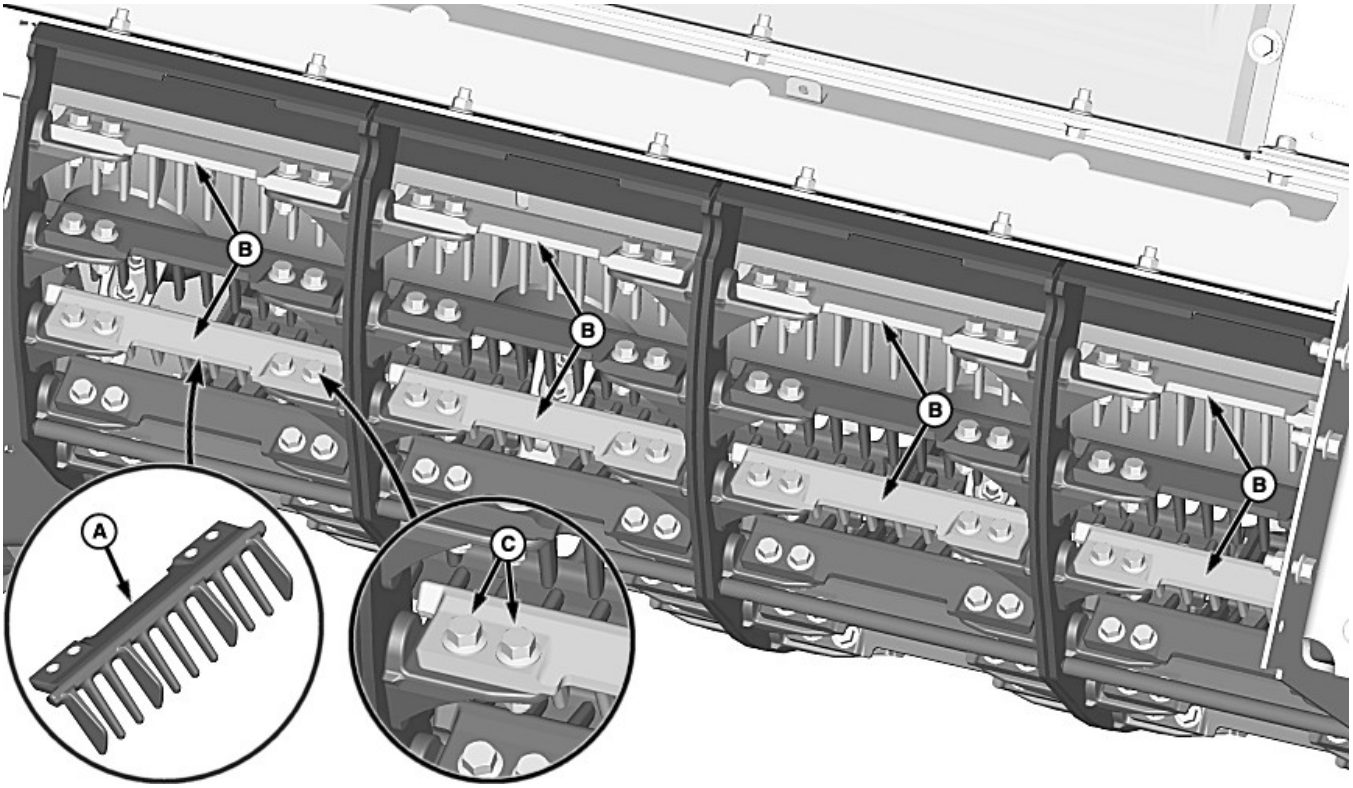
H99873—UN—27JAN11

Separator grate interrupters are used with the heavy-duty separator grates and are located on the right-hand side of the machine, in rows one and three.

These interrupters create a disruption in crop mat flow that allows additional grain to be shaken loose, increasing separator capacity.

OUO6075,00016F7-19-19DEC13

Separator Grate Interrupter Locations (If Equipped)



H99901—UN—21JAN11

A—Separator Grate Interrupters
B—Locations (8 used)
C—Cap Screws and Nuts (32 used)

IMPORTANT: Separator grate interrupters are intended for use on rows one and rows three on right-hand side of separator grates as shown. Installation in other locations may cause interference or a reduction in machine performance.

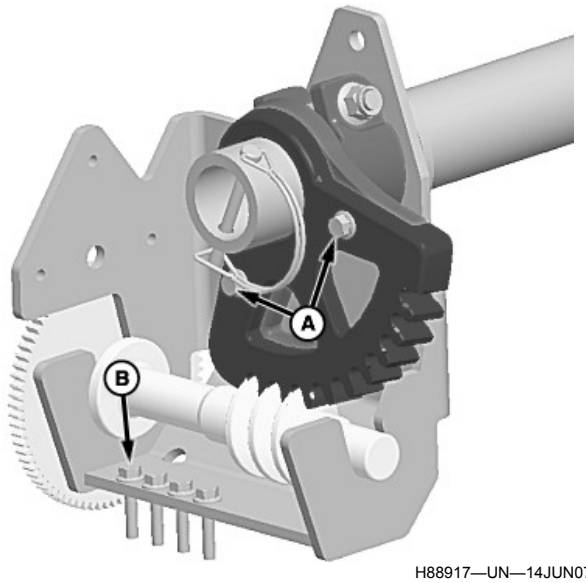
Verify that rotor is free spinning after installation of separator grate interrupters before starting machine or engaging separator.

1. Separator grate interrupters (A) MUST be installed in locations (B) as shown.
2. Retain separator grate interrupters with cap screws and nuts (C).
3. Tighten cap screws to specification.

Specification	
Cap Screws—Torque	73 N·m (54 lb.-ft.)

OUO6075,00016F8-19-19DEC13

Concave Sector Gear Shear Bolts (Standard Concave Adjust)



H88917—UN—14JUN07

A—Shear Bolts
B—Extra Shear Bolts (4 Used)

CAUTION: Shut OFF engine, set park brake and remove key.

Use only John Deere supplied shear bolts (A), see your John Deere dealer for replacement shear bolts.

If shear bolts should break, replace with extra shear bolts (B), which are provided on sector gear bracket.

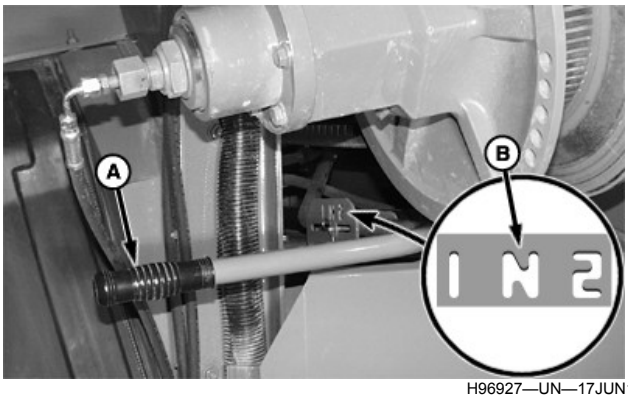
Tighten shear bolts to specification.

Specification

Shear Bolts—Torque. . . . . 15 N·m (133 lb-in.)

OUO6075,0001800-19-13MAY14

Concave Sections (Standard Concave Adjust)—Remove and Install



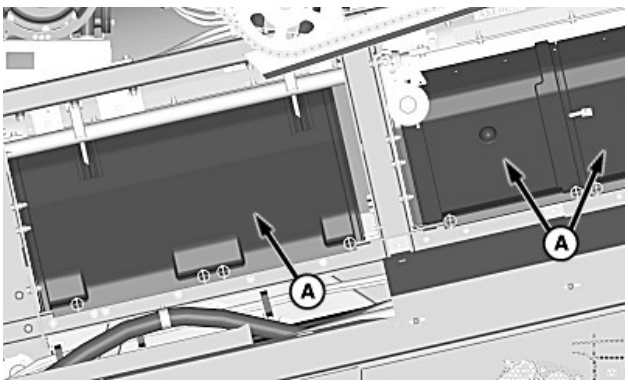
H96927—UN—17JUN10

A—Handle
B—Neutral Position

⚠ CAUTION: Concave sections are heavy and awkward to handle. Another person may be needed to remove and install concave sections.

NOTE: For ease of removal, close concave completely.

1. Move handle (A) to shift the rotor gear case in neutral position (B).

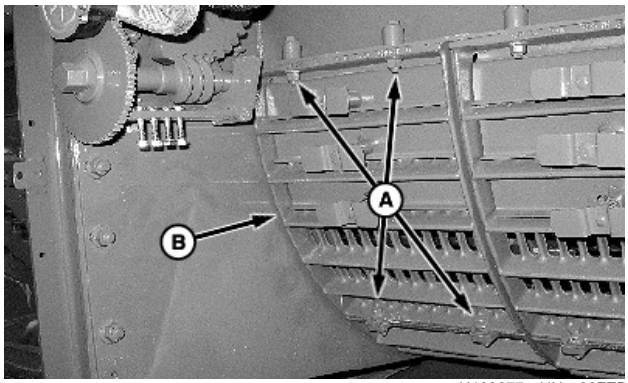


H111238—UN—13MAY14

A—Separator Covers

NOTE: Remove shielding as needed to access separator inspection covers.

2. Remove separator inspection covers (A).

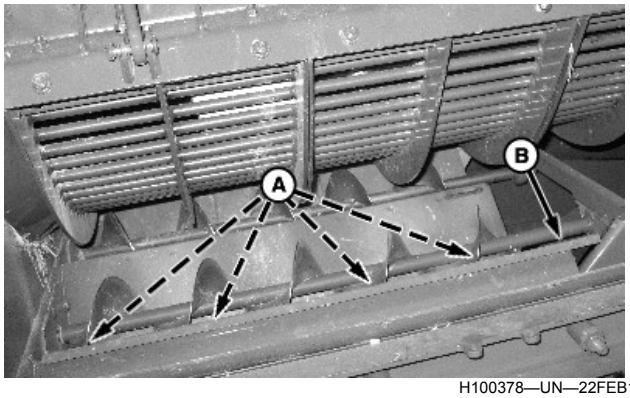


H100377—UN—22FEB11

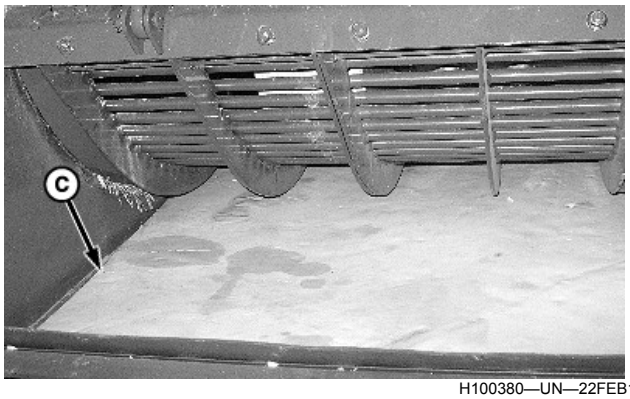
A—Cap Screws
B—Separator Grate

NOTE: Removing separator grate provides access for rotating rotor.

3. Remove cap screws (A) and separator grate (B).



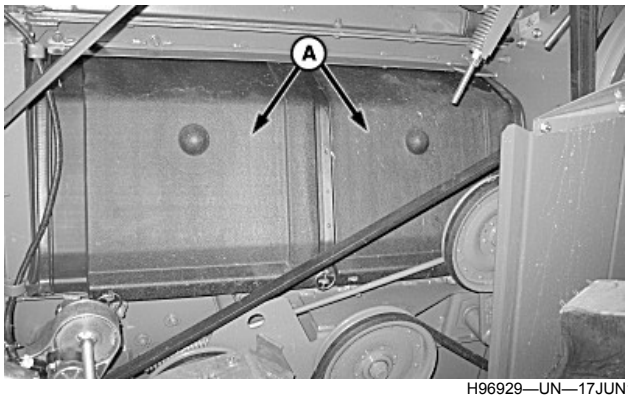
H100378—UN—22FEB11



H100380—UN—22FEB11

A—Cap Screws (4 used)
B—Diverter
C—Cardboard

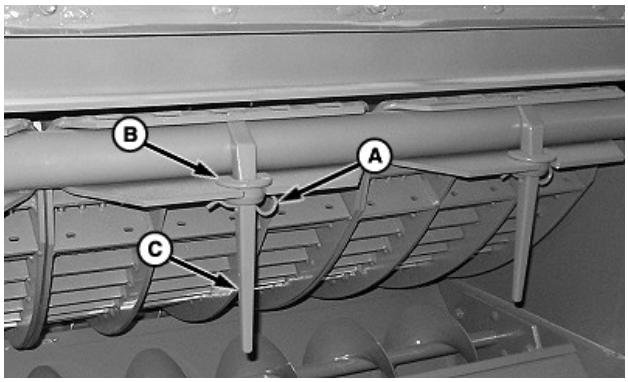
4. Loosen cap screws (A) and remove left-hand sheet metal diverter (B).
5. Place a piece of cardboard (C) or poly over conveyor augers. This provides protection for the augers and allows a smooth surface to remove the concaves.



H96929—UN—17JUN10

A—Separator Cover (2 used)

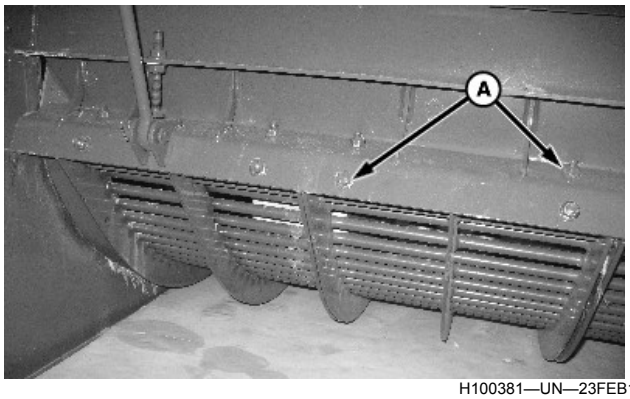
6. Remove shielding as needed to access separator inspection covers.
7. Remove quick-lock pins and front two separator covers (A) on the right-hand side of the machine.



H111561—UN—14JUL14

A—Spring Pin
B—Concave Retainer
C—Handle

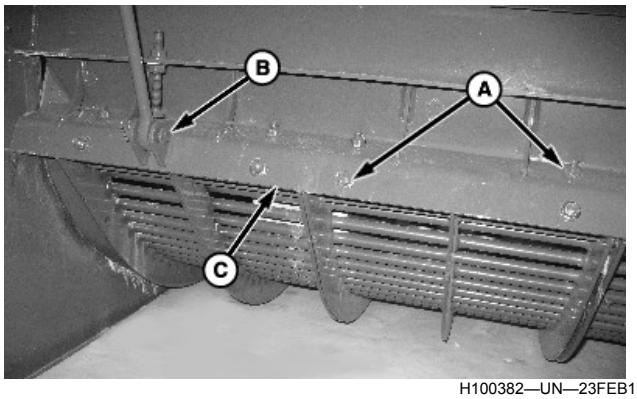
8. Remove spring pin (A) from the concave retainer (B).
9. Lift concave retainer (B) and remove the handle (C) from each concave section.



H100381—UN—23FEB11

A—Cap Screws (12 used)

10. Loosen cap screws (A).

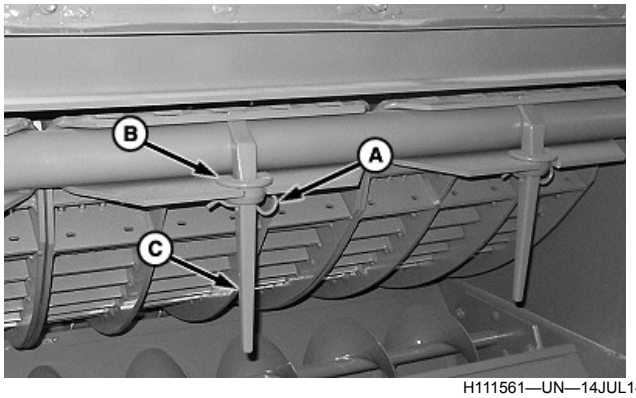


H100382—UN—23FEB11

A—Cap Screws (12 used)
B—Pins (2 used)
C—"Z" Bar

CAUTION: To prevent damage, carefully lower concave onto the auger bed.

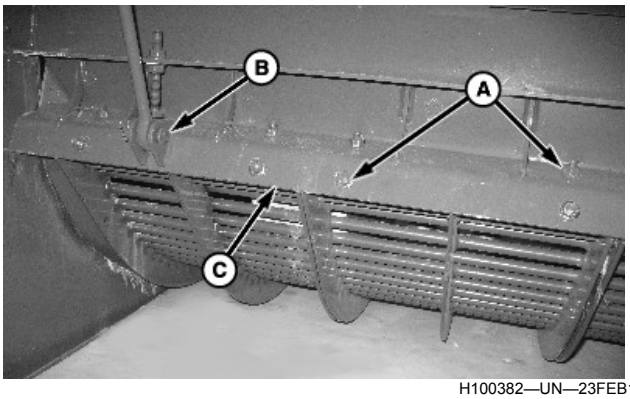
11. Remove cap screws (A).
12. Remove cotter pins, pins (B) and "Z" bar (C).
13. Rotate rotor such that a gap in the threshing element pattern occurs at mid concave.
14. Remove center concave section.
15. Slide rear concave to the center position and remove.
16. Slide front concave to the center position and remove.
17. Inspect wear on concave sections, threshing elements and threshing tines using KXE10110 Clearance Gauge.
18. Install concaves in reverse order.



H111561—UN—14JUL14

A—Spring Pin
B—Concave Retainer
C—Handle

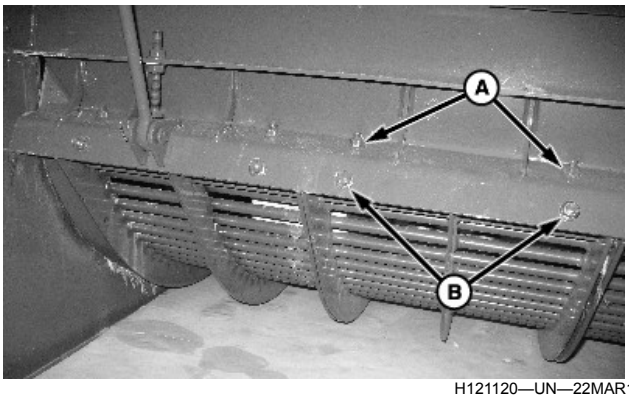
19. Install handle (C), concave retainer (B), and spring pin (A) on concave sections.



H100382—UN—23FEB11

A—Cap Screws (12 used)
B—Pins (2 used)
C—"Z" Bar

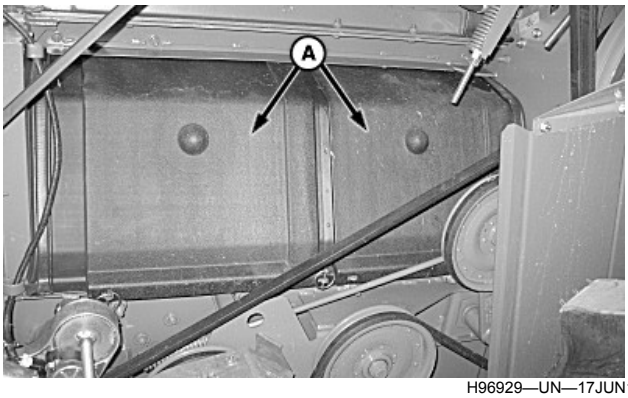
20. Position "Z" bar (C) over end of concaves and install cap screws, but do not tighten.
21. Install pins (B).



H121120—UN—22MAR17

A—Cap Screws (6 used)
B—Cap Screws (6 used)

22. Be sure the ends of concaves fit snug into "Z" bar; then tighten top row of the cap screws (A) first.
23. Tighten bottom row of the cap screws (B) last.
24. Adjust concave level. See Concave Leveling (Standard Concave Adjust) later in this section.

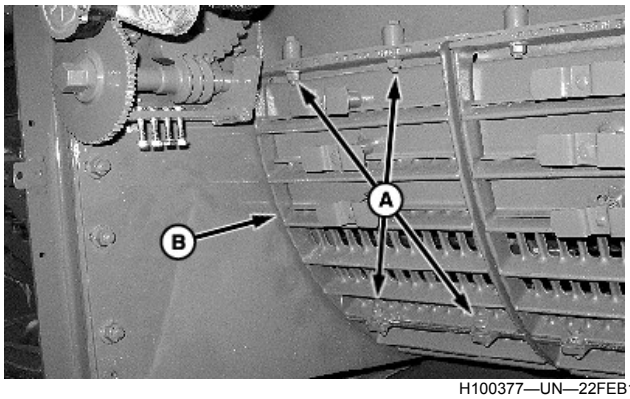


H96929—UN—17JUN10

A—Separator Covers

NOTE: Verify that top edge of separator cover is under clips.

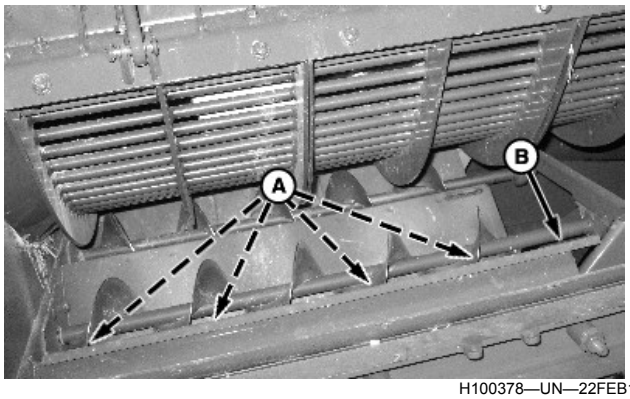
25. Install separator covers (A).
26. Install shielding previously removed to access separator inspection covers.



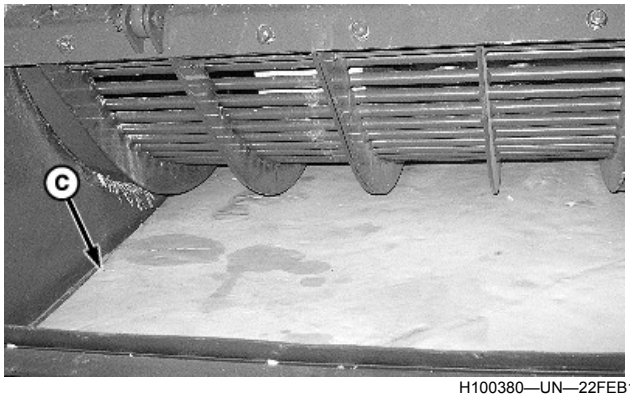
H100377—UN—22FEB11

A—Cap Screws (4 used)
B—Separator Grate

27. Install separator grate (B) and retain with cap screws (A).



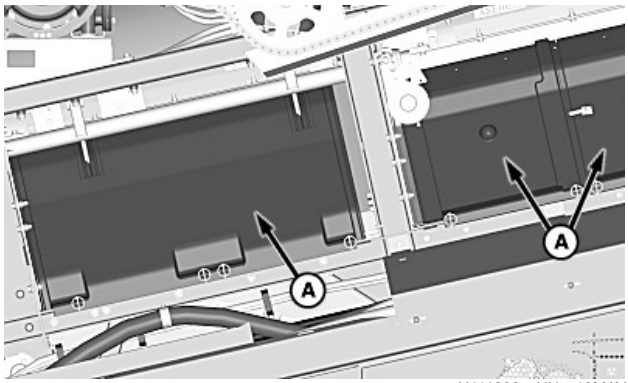
H100378—UN—22FEB11



H100380—UN—22FEB11

A—Cap Screws (4 used)
B—Diverter
C—Cardboard

28. Remove cardboard (C) or poly from conveyor augers.
29. Install diverter (B) to original position and tighten cap screws (A).



H111238—UN—13MAY14

A—Separator Cover

30. Install separator inspection covers (A).
31. Install shielding previously removed to access separator inspection covers.
32. Place rotor drive gear case in desired speed range.

OUO6075,0004605-19-04APR17

Concave Sections (Active Concave Isolation)—Remove and Install



H117012—UN—28MAR16

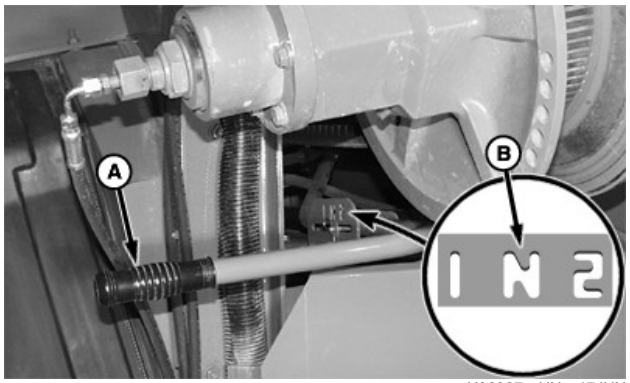
Threshing Clearance Adjust

CAUTION: Concave sections are heavy and awkward to handle. Another person may be needed to remove and install concave sections.

1. Start engine and press threshing clearance adjust switch.
2. To allow easier access to “Z” bar hardware, open threshing clearance to 5.

NOTE: Threshing clearance may need to be increased depending on machine configuration.

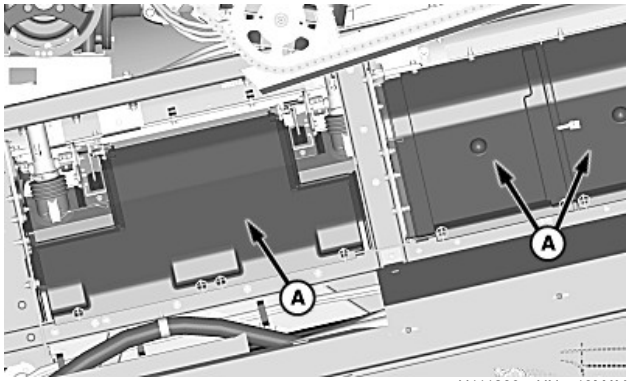
3. Shut OFF engine, set park brake and remove key.



H96927—UN—17JUN10

A—Handle
B—Neutral Position

4. Move handle (A) to shift the rotor gear case in neutral position (B).

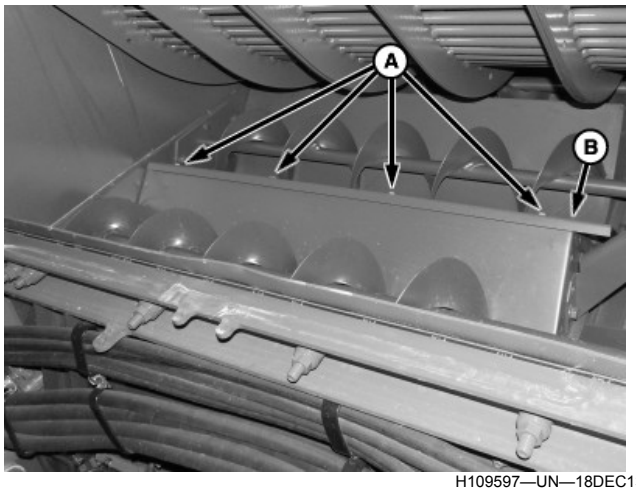


H111239—UN—13MAY14

A—Separator Covers

NOTE: Remove shielding as needed to access separator inspection covers.

5. Remove separator inspection covers (A).

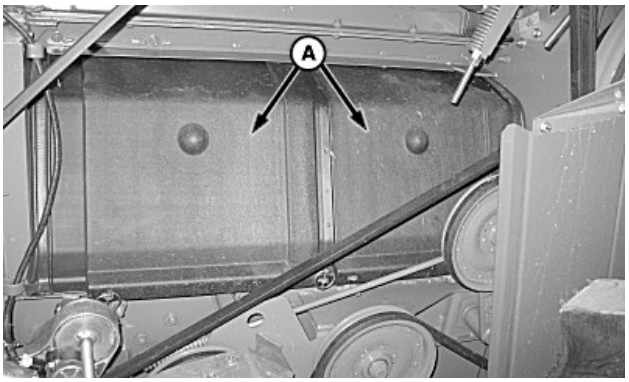


H109597—UN—18DEC13

A—Cap Screws
B—Diverter

6. Loosen cap screws (A) and remove left-hand sheet metal diverter (B).

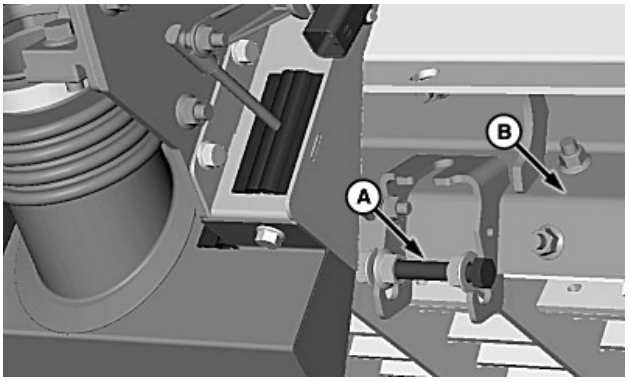
NOTE: Place a piece of cardboard or poly over conveyor augers. This provides protection for the augers and allows a smooth surface to remove the concaves.



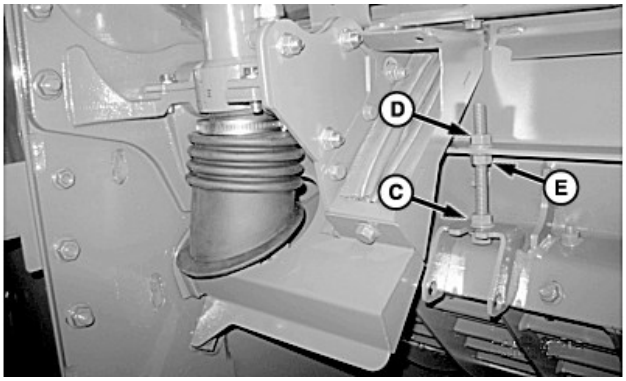
H96929—UN—17JUN10

A—Separator Cover

7. Remove shielding as needed to access separator inspection covers.
8. Remove quick-lock pins and front two separator covers (A) on the right-hand side of the machine.



H109919—UN—27FEB14

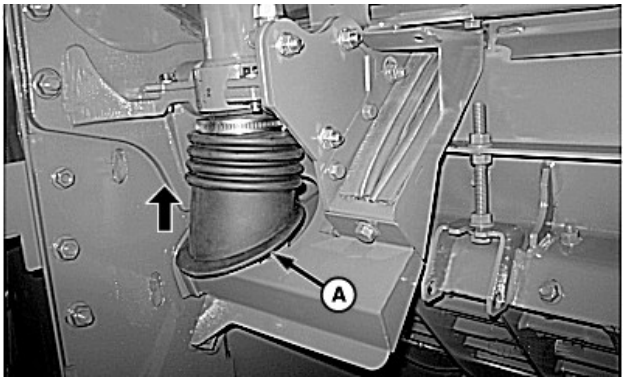


H109920—UN—27FEB14

A—Leveling Cap Screw (2 used)
B—"Z" Bar
C—Nut (2 used)
D—Nut (2 used)
E—Nut (2 used)

9. Remove concave leveling cap screws (A) from the bracket on "Z" bar (B) and install through the rail to hold concave and "Z" bar assembly.
10. Hand tighten nut (C) against "Z" bar bracket and slightly tighten nut (D) against the rail on both sides.

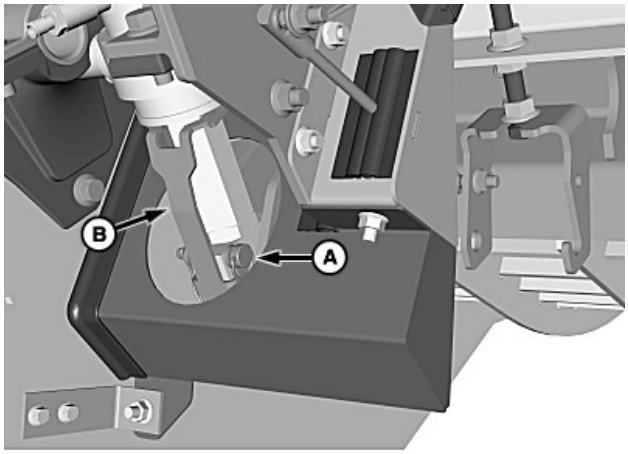
NOTE: Verify that there is adequate space between nut (E) and rail for zeroing adjustments. Do NOT tighten the nut against the rail.



H109276—UN—16OCT13

A—Rubber Seal (2 used)

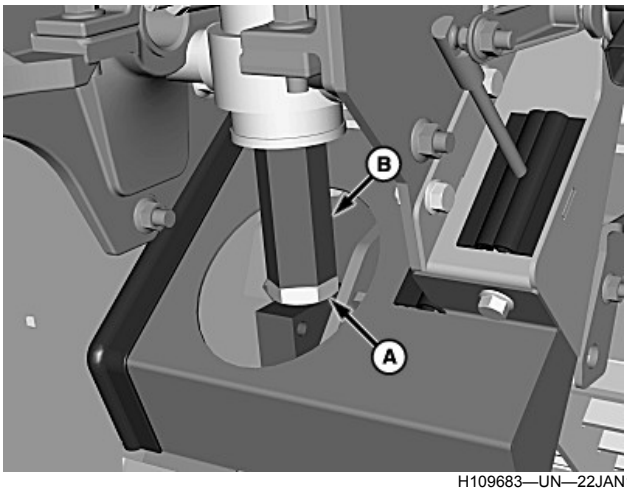
11. Remove base of the rubber seal (A) and lift upward on both cylinders.



H111261—UN—22MAY14

A—Pin (2 used)
B—Cylinder Safety Stop (2 used)

12. Remove pin (A) and cylinder safety stop (B) on both cylinders.

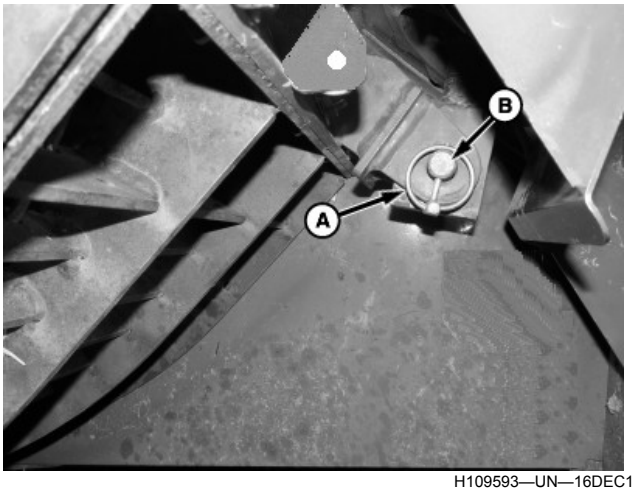


H109683—UN—22JAN14

A—Jam Nut (2 used)
B—Cylinder Stop (2 used)

13. Loosen jam nut (A) from the cylinder stop (B) and lower stop on both cylinder rods.

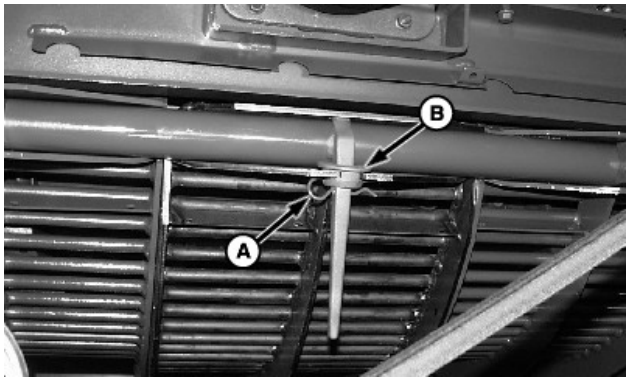
NOTE: Jam nut and stop must be lowered at least 15 mm (19/32 in) from current location.



H109593—UN—16DEC13

A—Quick-Lock Pin (2 used)
B—Pin (2 used)

14. Remove quick-lock pin (A) and pin (B) from the cylinder rod on both sides.

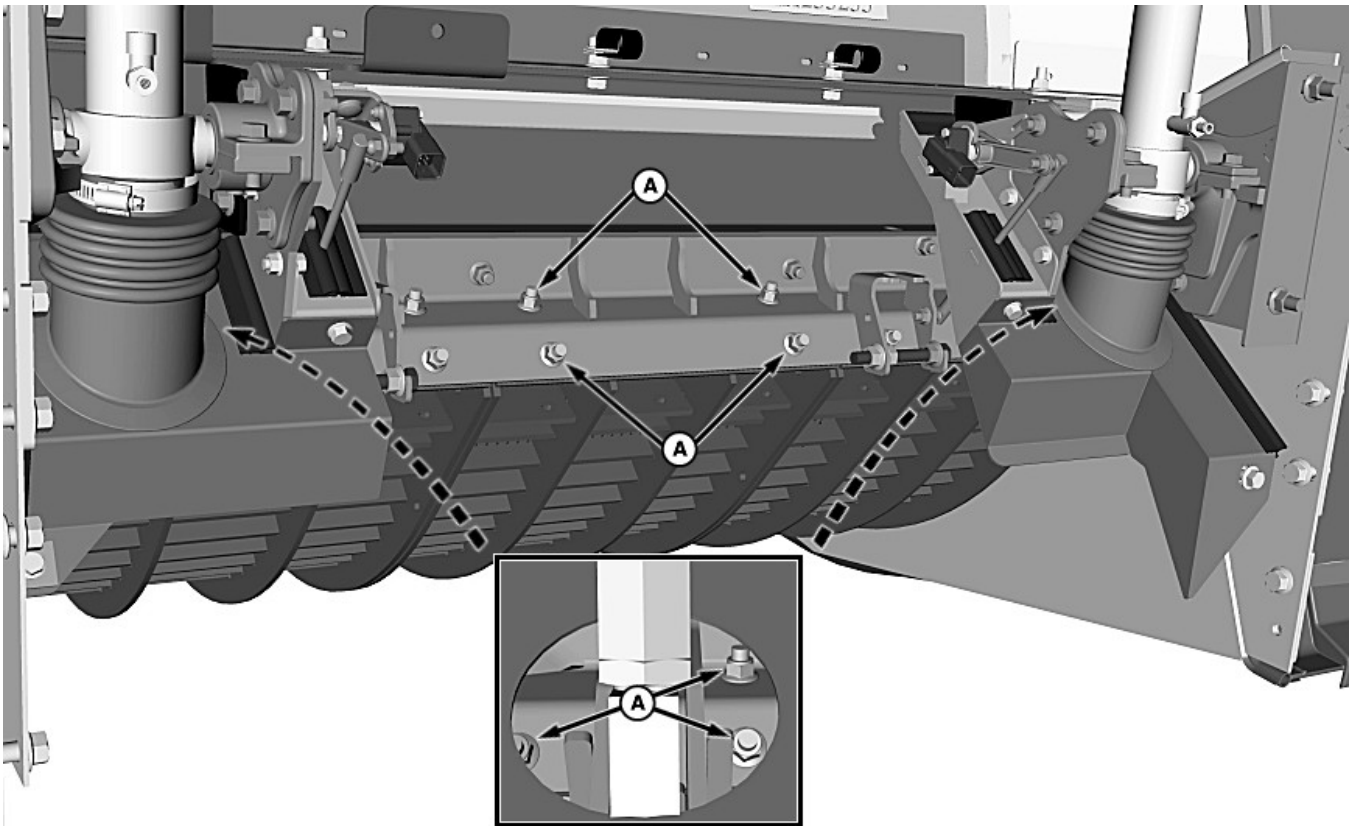


H75040—UN—04FEB03

Concave Retainer

A—Spring Pin
B—Concave Retainer

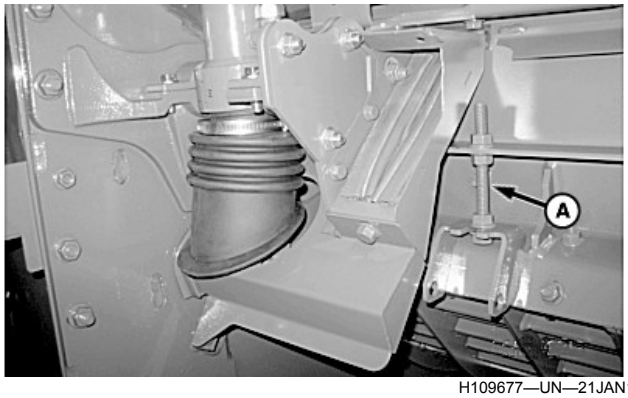
15. Remove spring pin (A) from the concave retainer (B).
16. Lift concave retainer and remove the handle from each concave section.



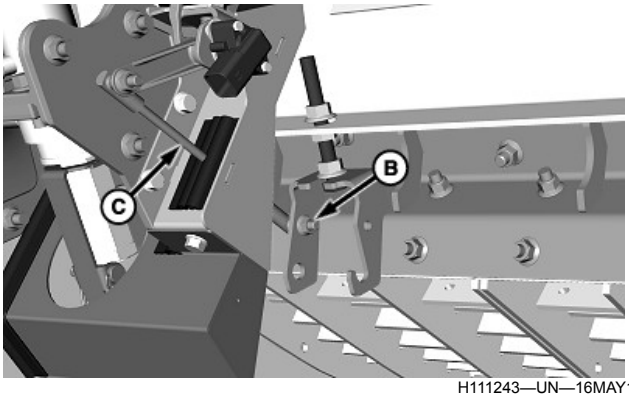
H109599—UN—19DEC13

A—Cap Screw (14 used)

17. Loosen cap screws (A).



H109677—UN—21JAN14



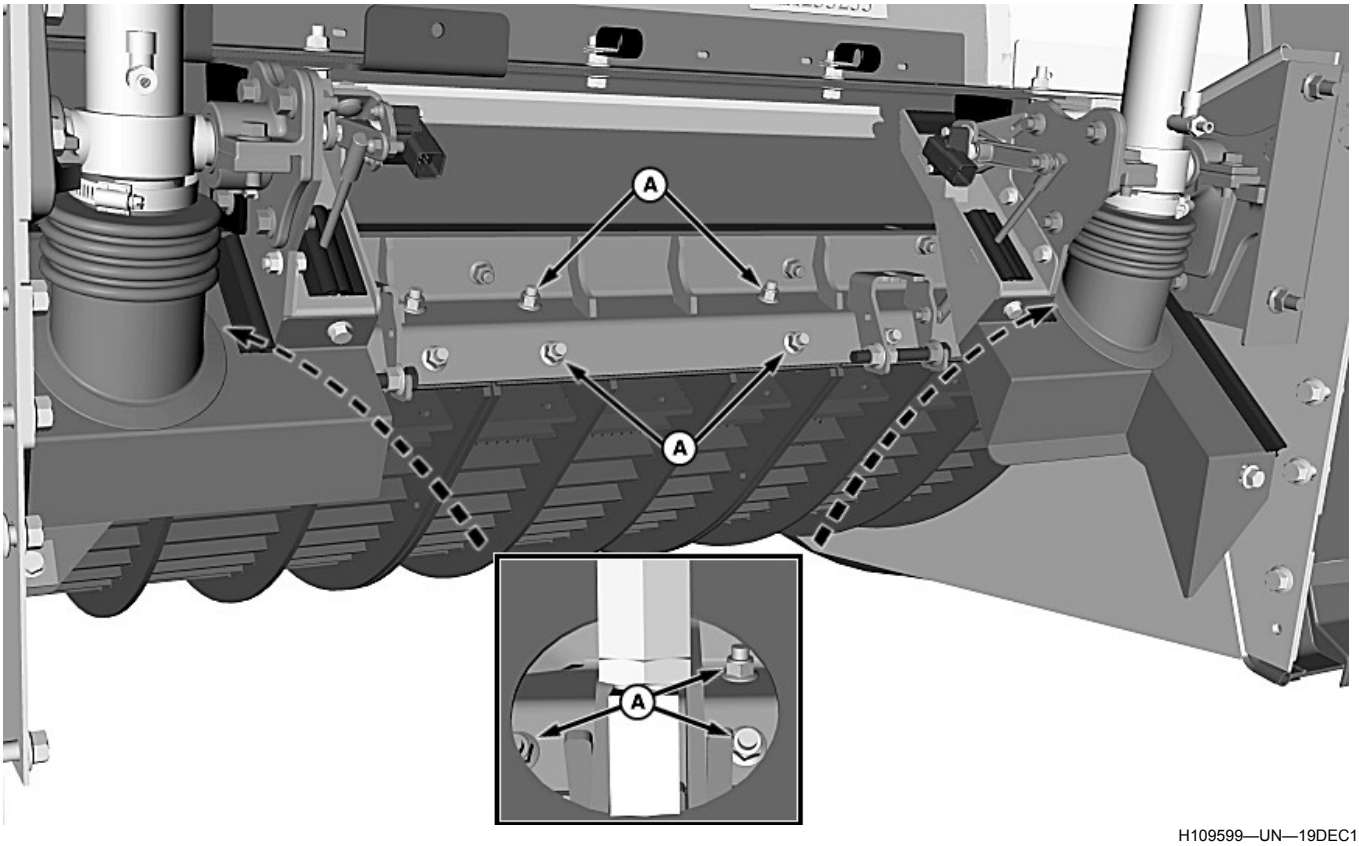
H111243—UN—16MAY14

A—Leveling Cap Screw (2 used)
B—Nut (2 used)
C—Linkage Arm (2 used)

18. Use leveling cap screw (A) to adjust “Z” bar and concaves up approximately 10 mm (13/32 in) or until middle concave can be easily removed.

NOTE: Depending on machine configuration, “Z” bar may need to be removed.

19. If removing “Z” bar, remove nuts (B) and linkage arms (C).



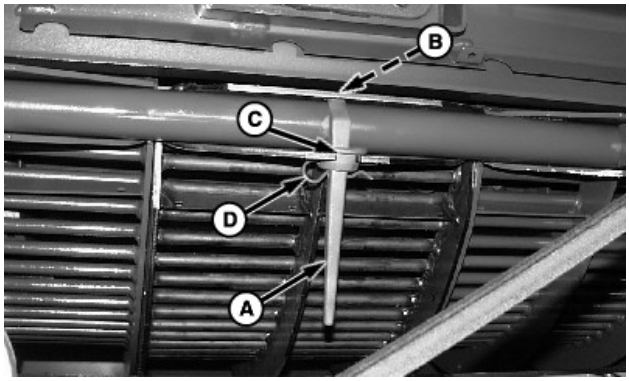
H109599—UN—19DEC13

A—Cap Screw and Nut (14 used)

20. Remove cap screws and nuts (A).

NOTE: Rotate rotor such that a gap in the threshing element pattern occurs at mid concave.

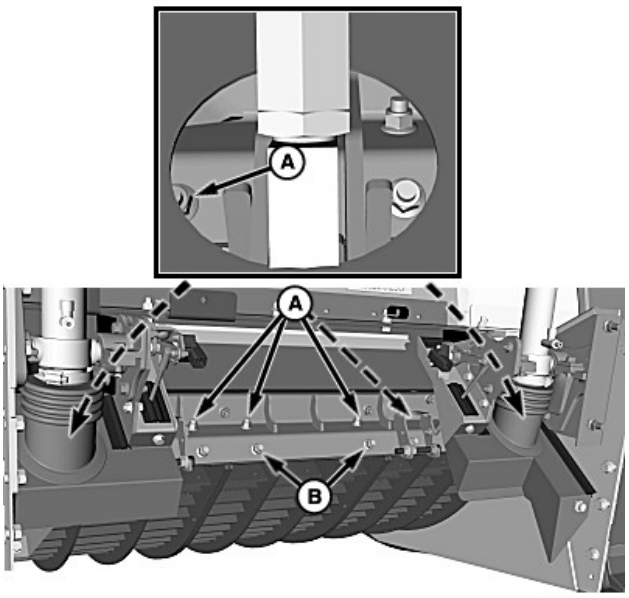
21. Remove center concave section.
22. Slide rear concave to the center position and remove.
23. Slide front concave to the center position and remove.
24. Inspect wear on concave sections, threshing elements and threshing tines using KXE10110 Clearance Gauge.
25. Install concaves in reverse order.



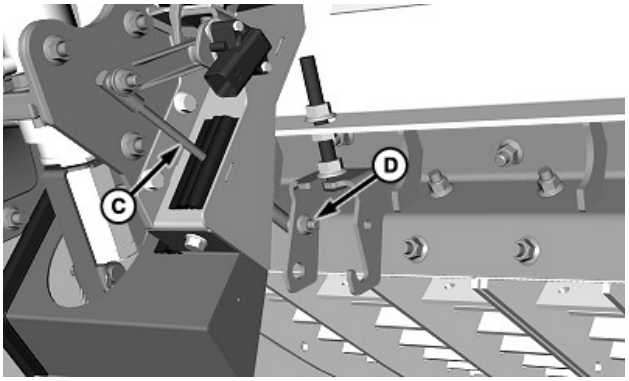
H75041—UN—04FEB03

A—Handle
B—Groove
C—Concave Retainer
D—Spring Pin

26. Install concave handle (A) into groove (B) on concave sections.
27. Install concave retainer (C) and retain with spring pin (D).



H109684—UN—22JAN14



H111244—UN—16MAY14

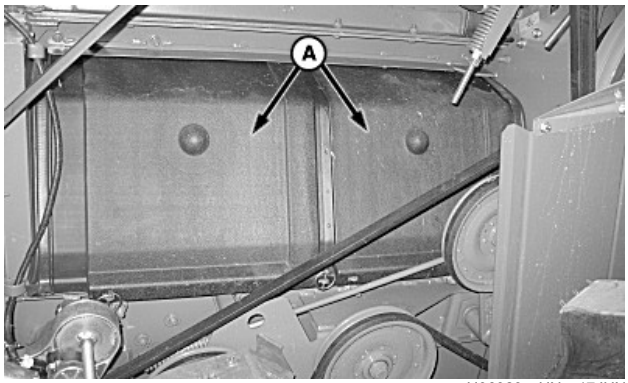
A—Cap Screw and Nut (6 used)
B—Cap Screw and Nut (8 used)
C—Linkage Arm (2 used)
D—Nut (2 used)

NOTE: If "Z" bar was previously removed, install at this time.

28. Using leveling cap screws, lower "Z" bar and concaves approximately 10 mm (13/32 in) or equal distance of amount raised previously.

NOTE: Verify that concave sections are tight against each other with no gaps prior to tightening hardware.

29. Verify ends of concaves fit snug into "Z" bar; then tighten top row of the cap screws and nuts (A) first.
30. Tighten bottom row of the cap screws and nuts (B) last.
31. If "Z" bar was removed, install linkage arms (C) using nuts (D).
32. Adjust concave level. See Concave Leveling (Active Concave Isolation) later in this section.



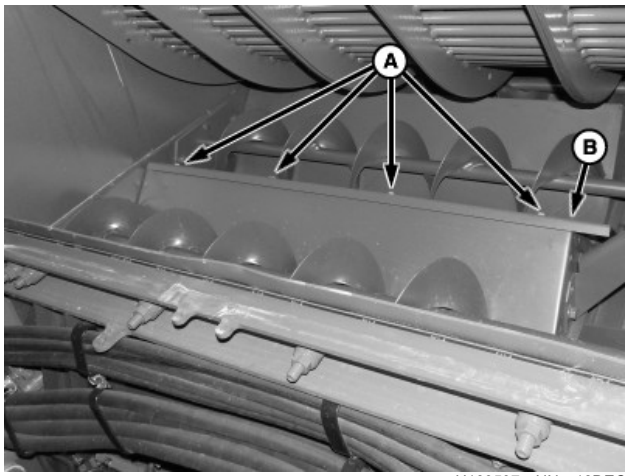
H96929—UN—17JUN10

A—Separator Covers

NOTE: Verify that top edge of separator cover is under clips.

33. Install separator covers (A).
34. Install shielding previously removed to access separator inspection covers.

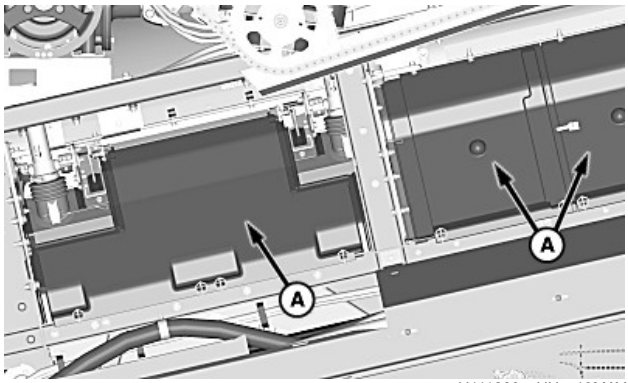
NOTE: Remove cardboard or poly from conveyor augers.



H109597—UN—18DEC13

A—Cap Screw (4 used)
B—Diverter

35. Install diverter (B) to original position and tighten cap screws (A).



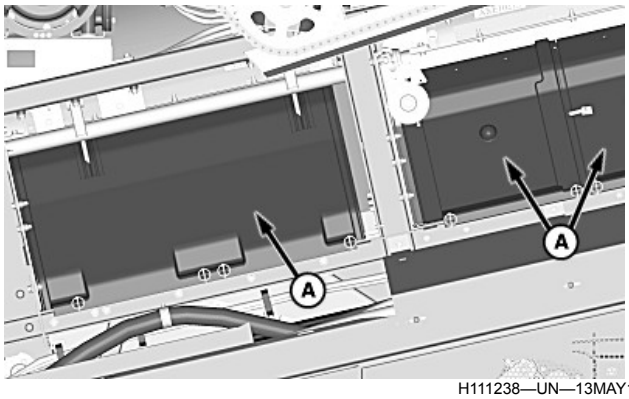
H111239—UN—13MAY14

A—Separator Cover

36. Install separator inspection covers (A).
37. Install shielding previously removed to access separator inspection covers.
38. Shift rotor drive gear case to previous position.

OUO6075,0004606-19-11APR17

Concave Leveling (Standard Concave Adjust)

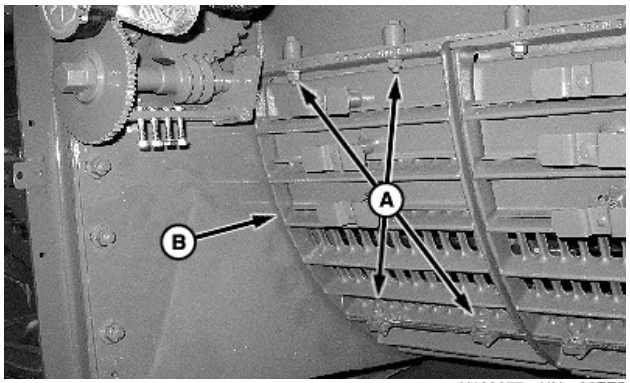


H111238—UN—13MAY14

A—Separator Cover

NOTE: Round bar concave covers (if installed) should be removed prior to beginning concave leveling.

1. Remove shielding as needed to access separator inspection covers.
2. Remove separator inspection covers (A).

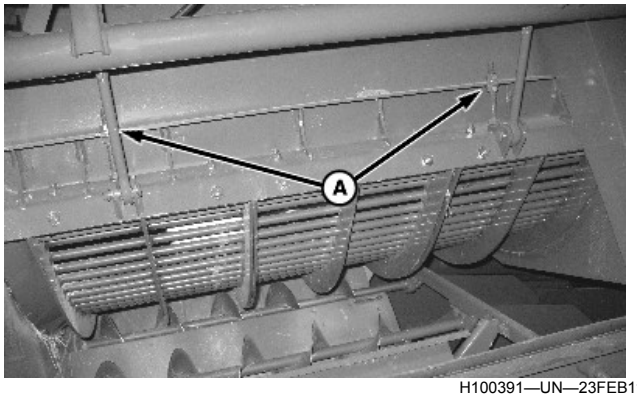


H100377—UN—22FEB11

A—Cap Screw (4 used)
B—Separator Grate

NOTE: Removing separator grate provides access for rotating rotor.

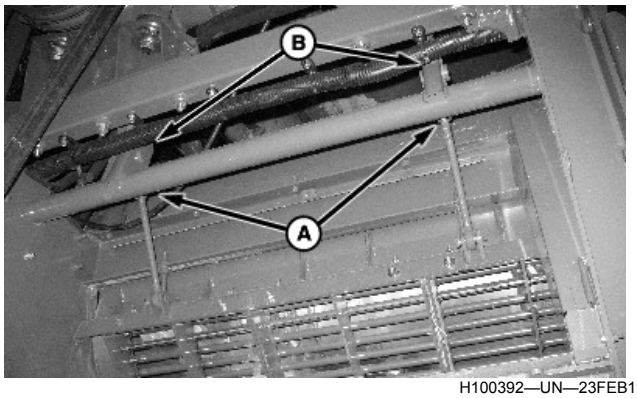
3. Remove cap screws (A) and separator grate (B).



H100391—UN—23FEB11

A—Stop Bolts (2 used)

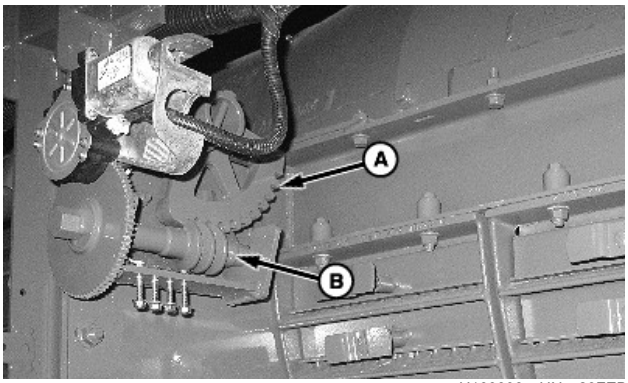
4. Back off stop bolts (A).



H100392—UN—23FEB11

A—Bottom Nut (2 used)
B—Top Nut (2 used)

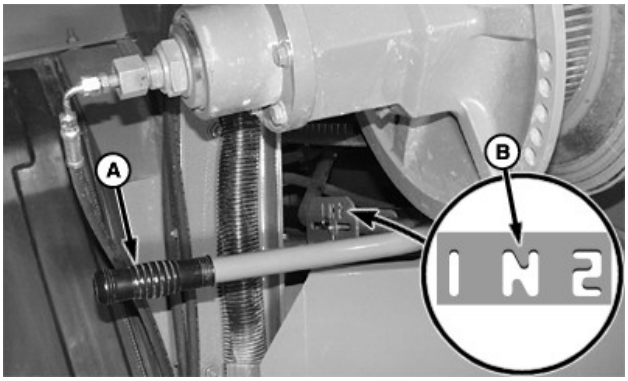
5. Loosen lock nuts (A) and back off nuts (B) five turns each.



H100393—UN—23FEB11

A—Sector Gear
B—Worm Gear

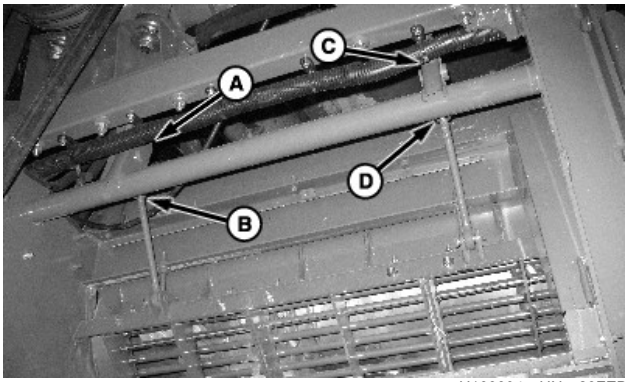
6. Adjust concave to closed position using switch in cab until the worm gear (B) and sector gear (A) are bottomed out in up position.



H96927—UN—17JUN10

A—Handle
B—Neutral Position

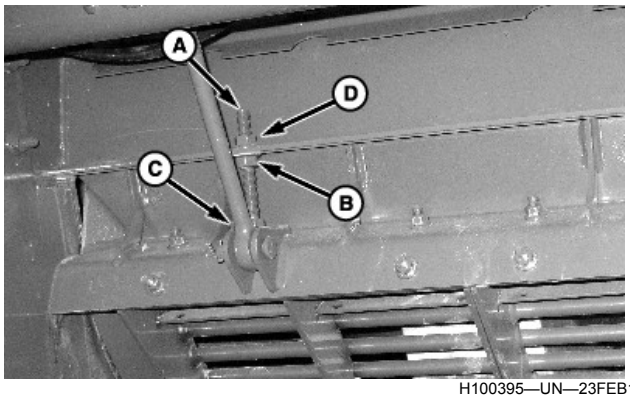
7. Move handle (A) to shift the rotor gear case in neutral position (B).



H100394—UN—23FEB11

A—Front Eyebolt Top Nut
B—Front Eyebolt Bottom Lock Nut
C—Rear Eyebolt Top Nut
D—Rear Eyebolt Bottom Lock Nut

8. Adjust front eyebolt top nut (A) slowly until elements ”tick” concave while rotor is rotating counterclockwise. Back off three complete turns.
9. Adjust rear eyebolt top nut (C) slowly, until elements ”tick” concave while rotor is rotating counterclockwise. Back off three complete turns.
10. Adjust front eyebolt top nut (A) down slowly until elements ”tick” concave. Back off slowly until ”tick” stops. As soon as ”tick” has stopped back off one complete turn and tighten top lock nut.
11. Adjust rear eyebolt top nut (C) down slowly, until elements ”tick” concave. Back off slowly until ”tick” stops. As soon as ”tick” has stopped back off one complete turn and tighten top lock nut.
12. Tighten bottom front concave adjustment nut. Hold front eyebolt top nut (A) with wrench and tighten front eyebolt bottom lock nut (B).
13. Tighten bottom rear concave adjustment nut. Hold rear eyebolt top nut (C) with wrench and tighten rear eyebolt bottom lock nut (D).

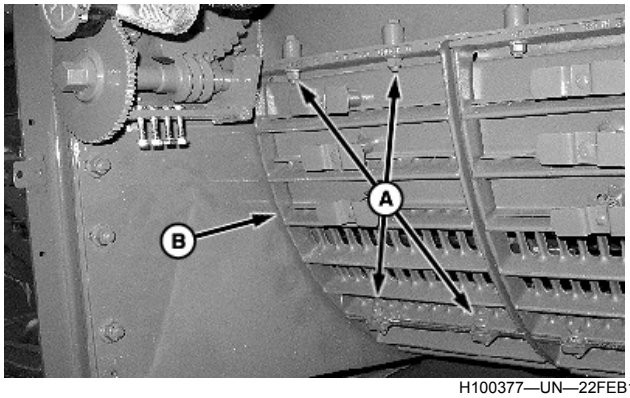


H100395—UN—23FEB11

Stop Bolts

A—Stop Bolt (2 used)
B—Lock Nut
C—Head of Bolt
D—Lock Nut

14. Adjust front and rear concave stop bolt (A) by tightening bottom nut (B) until head of bolt (C) is snug against concave. Tighten top nut (D) while holding bottom nut (B) with wrench.



H100377—UN—22FEB11

A—Cap Screw (4 used)
B—Separator Grate

15. Install separator grate (B) and retain with cap screws (A).

16. Shift rotor drive gear case to previous position.
17. Install previously removed separator inspection covers and shields.
18. Select **Threshing Clearance Calibration (STS Electric)** from inside the cab and follow information shown on the display. See Calibrations Application Help or Operator's Station Help for further information.

OUO6075,0004601-19-28MAR17

Concave Leveling (Active Concave Isolation)



H117012—UN—28MAR16

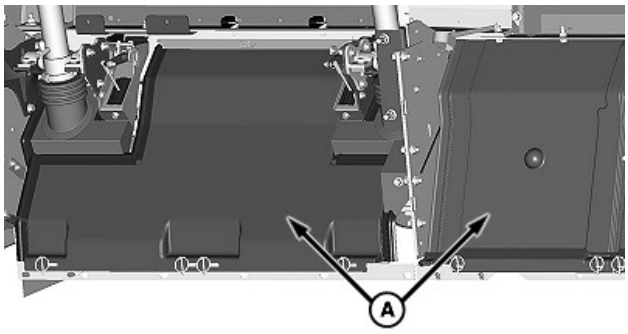
Threshing Clearance Adjust

NOTE: If installed, remove round bar concave covers before beginning concave leveling.

1. Start engine and press threshing clearance adjust switch.
2. Set threshing clearance to 0.

NOTE: If taller dense pack threshing tines or rice threshing elements have replaced grain elements, set threshing clearance to 15.

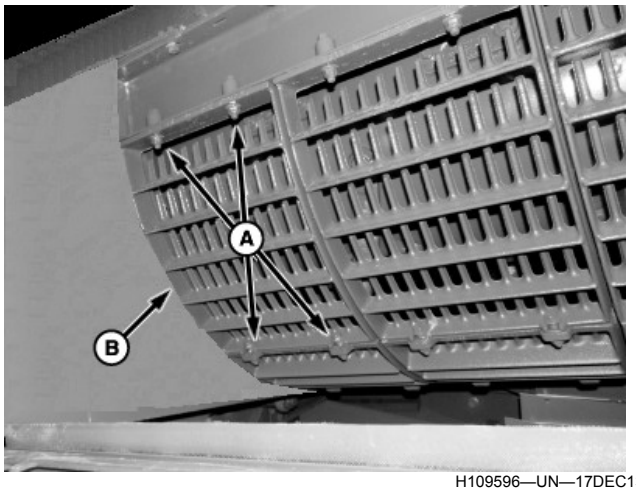
3. Shut OFF engine, set park brake and turn key switch ON.



H113295—UN—23MAR15

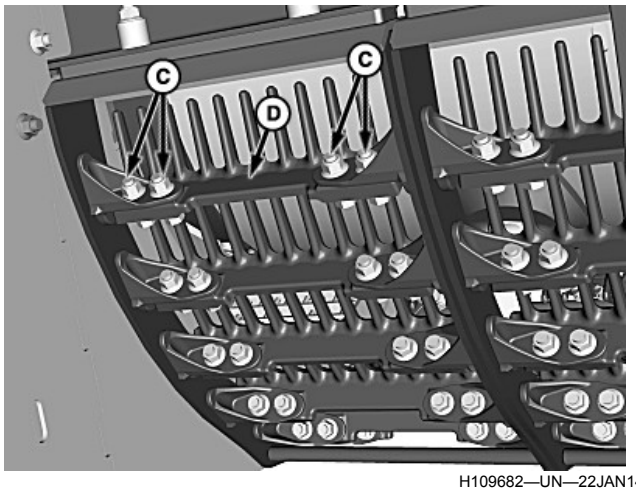
A—Separator Inspection Covers

4. Remove separator inspection covers (A).



H109596—UN—17DEC13

Standard Cast Separator Grates



H109682—UN—22JAN14

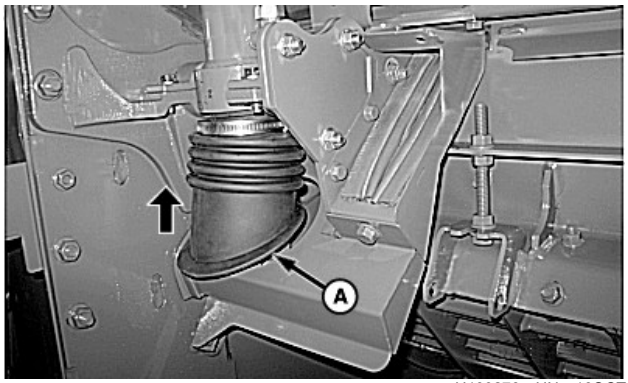
Heavy-Duty Separator Grates

A—Cap Screws (4 used)
B—Separator Grate
C—Cap Screws and Nuts
D—Separator Grate Fingers

NOTE: Removing separator grate provides access for rotating rotor.

5. On machines equipped with the standard separator grates, remove cap screws (A) and separator grate (B).
6. On machines equipped with heavy-duty separator grate fingers, remove cap screws and nuts (C) and finger (D).

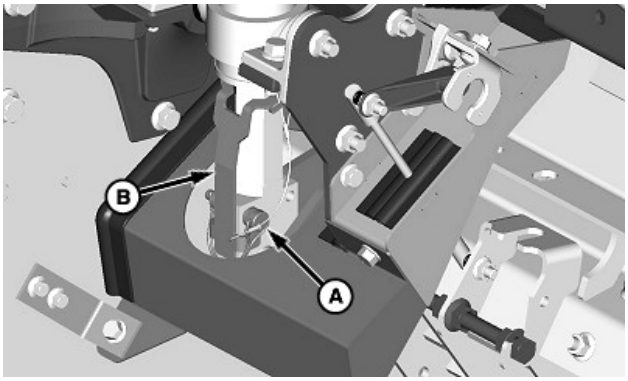
NOTE: It may be necessary to remove two or more separator grate fingers to allow access for rotating rotor.



H109276—UN—16OCT13

A—Rubber Seal (2 used)

7. Remove base of the rubber seal (A) and lift upward on both cylinders.

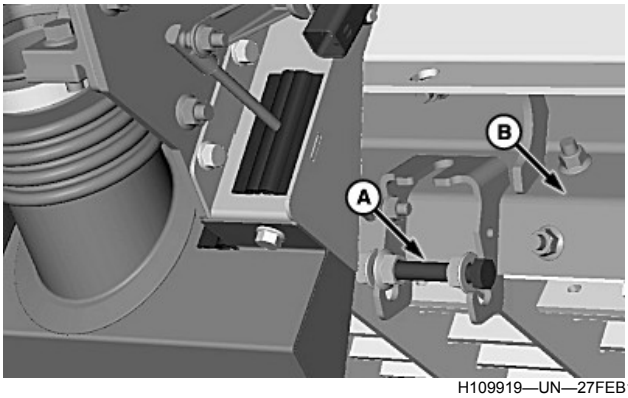


H113060—UN—24FEB15

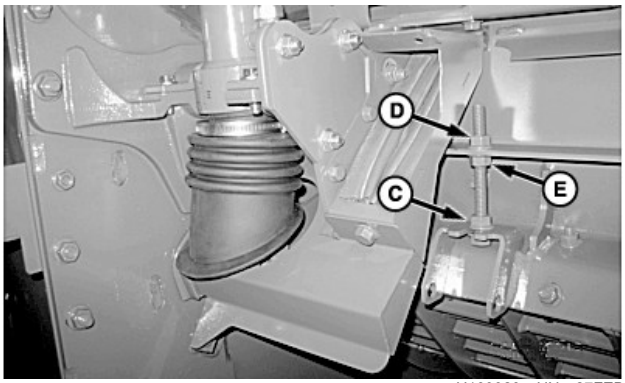
A—Pin (2 used)
B—Cylinder Lock (2 used)

NOTE: Concave may need to be repositioned to remove cylinder lock.

8. Remove pin (A) and cylinder lock (B) on each cylinder.



H109919—UN—27FEB14

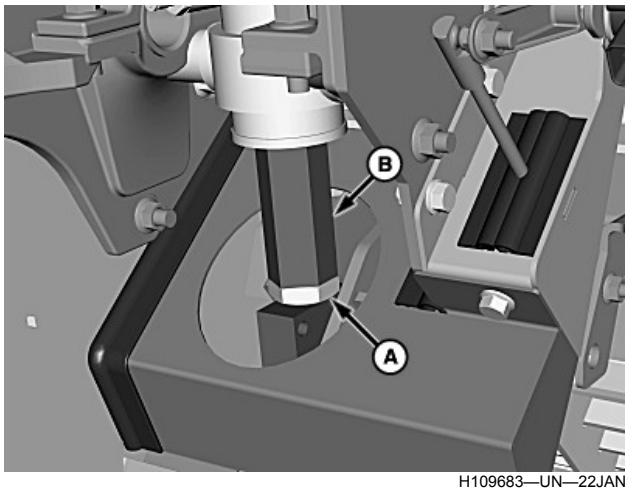


H109920—UN—27FEB14

A—Leveling Cap Screws (2 used)
B—"Z" Bar
C—Nut (2 used)
D—Nut (2 used)
E—Nut (2 used)

9. Remove concave leveling cap screws (A) from the bracket on "Z" bar (B) and install through the rail to hold concave and "Z" bar assembly.
10. Hand tighten nut (C) against "Z" bar bracket and slightly tighten nut (D) against the rail on both sides.

NOTE: Verify that there is adequate space between nut (E) and rail for zeroing adjustments. Do NOT fully tighten the nut against the rail.

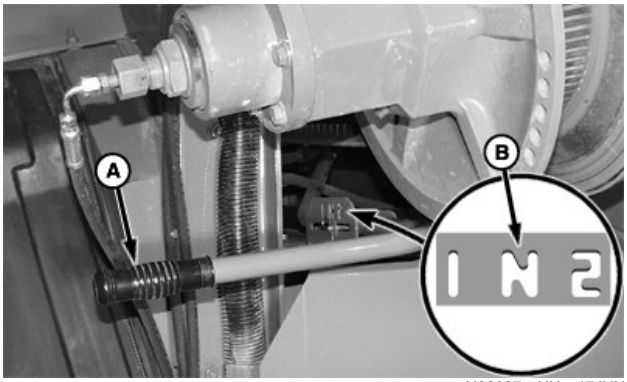


H109683—UN—22JAN14

A—Jam Nut (2 used)
B—Cylinder Stop (2 used)

11. Loosen jam nut (A) from the cylinder stop (B) and lower stop on both cylinder rods.
12. Select **Concave Leveling Calibration** from inside the cab and follow information shown on the display. See Calibrations Application Help or Operator's Station Help for further information.

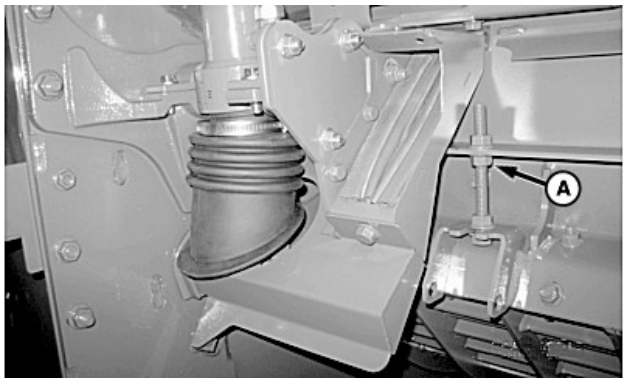
NOTE: Key switch MUST be left ON while performing following steps outside of cab.



H96927—UN—17JUN10

A—Handle
B—Neutral Position

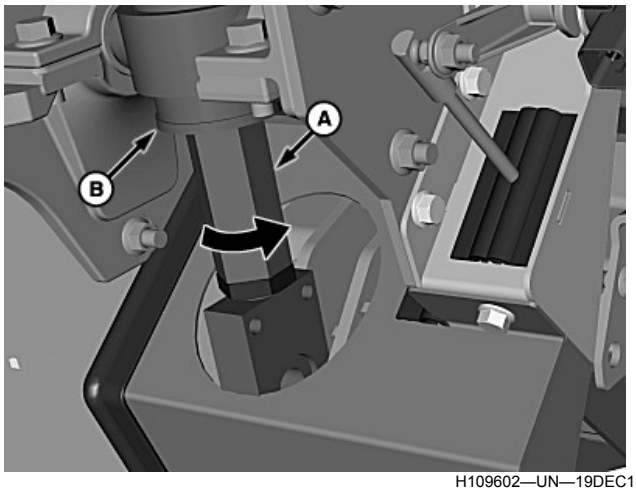
13. Move handle (A) to shift the rotor gear case in neutral position (B).
14. Spin rotor counterclockwise and tighten rear leveling cap screw, pulling concave upward until elements “tick”. Once “ticking” occurs, back off leveling cap screw three complete turns.
15. Spin rotor counterclockwise and tighten front leveling cap screw, pulling concave upward until elements “tick”. Once “ticking” occurs, back off leveling cap screw three complete turns.
16. Continue spinning rotor counterclockwise and tighten rear leveling cap screw, pulling concave upward until elements “tick”. Once “ticking” occurs, back off leveling cap screw one and a half turns.
17. Continue spinning rotor counterclockwise and tighten front leveling cap screw, pulling concave upward until elements “tick”. Once “ticking” occurs, back off leveling cap screw one and a half turns.



H109594—UN—16DEC13

A—Nut 2 (used)

18. Tighten nut (A) against the rail to help lock concaves in position.



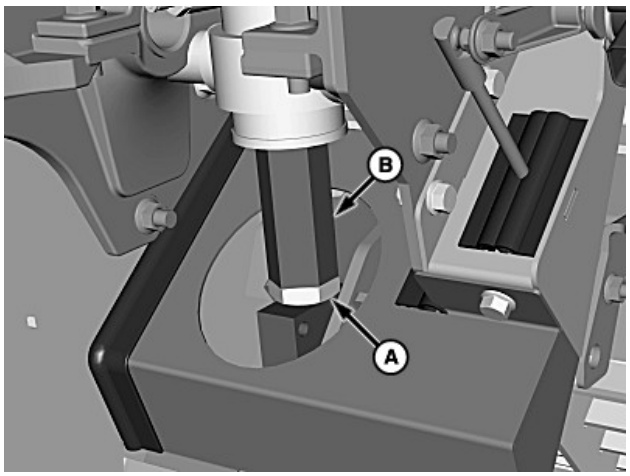
H109602—UN—19DEC13

A—Cylinder Stops (2 used)
B—Cylinder Barrels (2 used)

19. During the calibration, it is critical to adjust the cylinder stops correctly.

NOTE: Do not over tighten cylinder stops.

20. Turn cylinder stops (A) in direction of arrow until hand tight against cylinder barrels (B).



H109683—UN—22JAN14

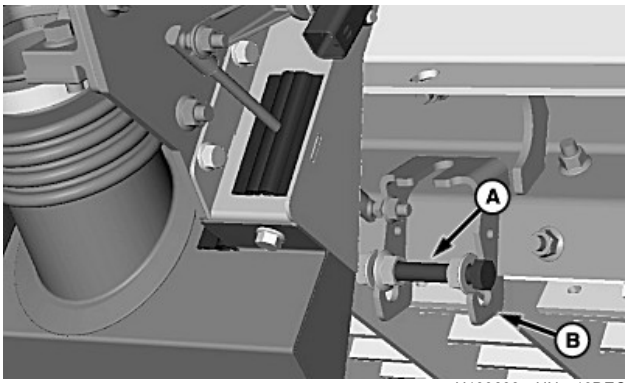
A—Jam Nut (2 used)
B—Cylinder Stop (2 used)

NOTE: Prior to tightening jam nuts (A), index cylinder stops (B) to install cylinder locks in correct position on hex flats of cylinder stops.

21. Tighten jam nut (A) against the cylinder stop (B) on each cylinder.

NOTE: Leveling cap screws MUST remain fastened to “Z” bar bracket and rail.

22. Continue with **Concave Leveling Calibration** until complete.

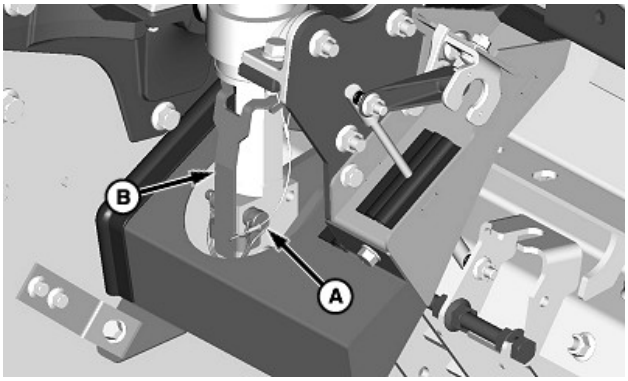


H109603—UN—19DEC13

A—Leveling Cap Screw (2 used)
B—Storage Bracket (2 used)

23. If calibration was accepted, exit **Concave Leveling Calibration**, turn key switch OFF, and remove leveling cap screws (A).
24. Store leveling cap screws in storage brackets (B).
25. Start engine. Calibrate **Threshing Clearance Calibration (Hydraulic)** from inside the cab and follow information shown on the display. See Calibrations Application Help or Operator's Station Help for further information.

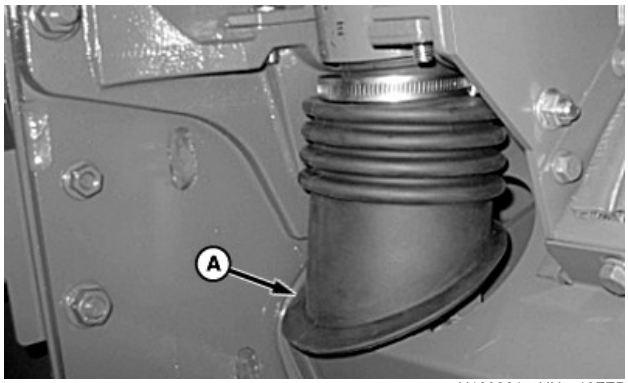
IMPORTANT: A warning message may appear on display stating to abort the calibration because the system has detected a concave zero position that does not match concave leveling position. If this occurs, abort Concave Leveling Calibration, repeat the Concave Leveling procedure, and calibrate Threshing Clearance Calibration (Hydraulic) again.



H113060—UN—24FEB15

A—Pin (2 used)
B—Cylinder Lock (2 used)

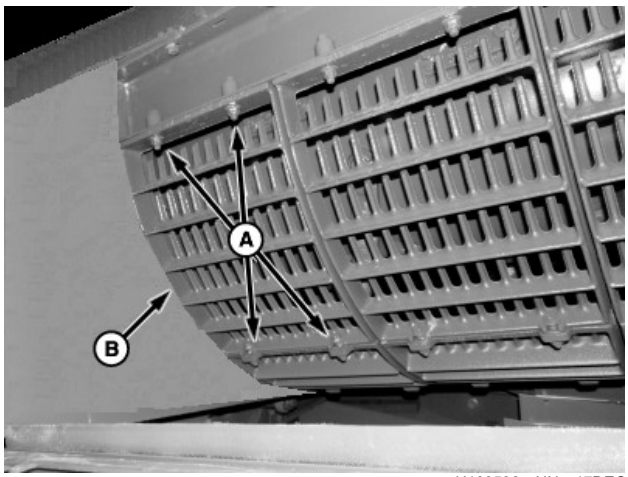
26. Open concave to 35 and install previously removed cylinder locks (B) and pins (A) on each cylinder.



H109821—UN—10FEB14

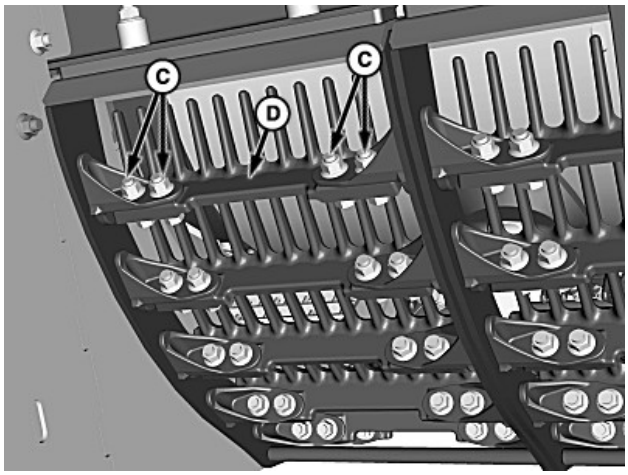
A—Rubber Seal (2 used)

27. Install bottom of the rubber seal (A) on both cylinders.



H109596—UN—17DEC13

Standard Cast Separator Grate



H109682—UN—22JAN14

Heavy-Duty Separator Grate

A—Cap Screws (4 used)
B—Separator Grate
C—Cap Screws and Nuts
D—Separator Grate Fingers

28. On machines equipped with the standard separator

grates, install separator grate (B) using cap screws (A).

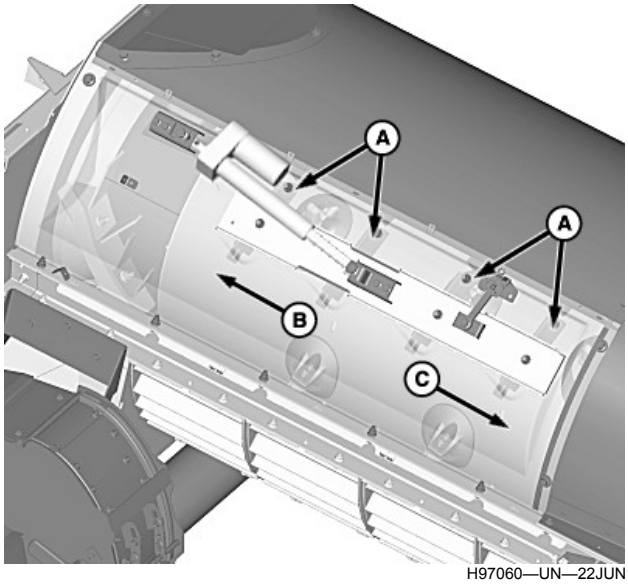
29. On machines equipped with heavy-duty separator grates, install separator grate fingers (D) using cap screws and nuts (C). Tighten to specification.

Specification	
Heavy-Duty Separator Grate Cap Screws and Lock Nuts—Torque	73 N·m (54 lb·ft)

30. Shift rotor drive gear case to previous position.
31. Install previously removed separator inspection covers and shields.

OUO6075,0004600-19-28MAR17

Separator Top Cover Vanes (If Equipped)



H97060—UN—22JUN10

A—Separator Top Cover Vanes
B—Advanced Position
C—Standard Position

Separator top cover vanes (A) are located on the right-hand side of the machine behind the clean grain loading auger.

Separator top cover vanes can be be adjusted to two different positions through software.

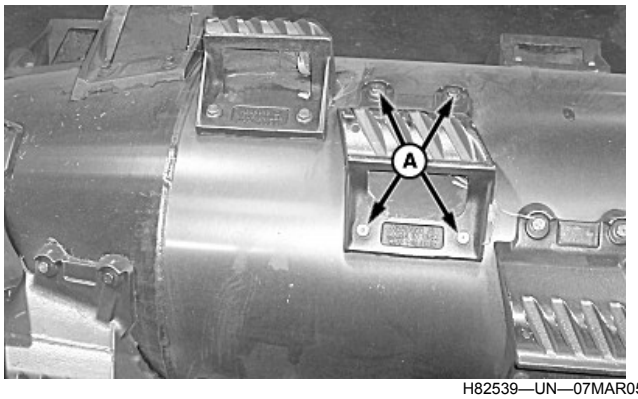
NOTE: Running separator vanes in the advanced position may increase grain losses in certain crop and conditions. Crop dwell time in separator is reduced to improve straw quality.

- (B)—Advanced Position
- (C)—Standard Position

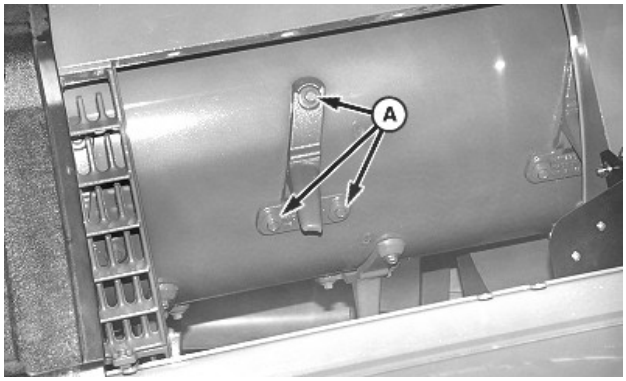
See Residue Management Application Help or Operator's Station Help for further information.

OUO6075,0004392-19-31JAN17

Threshing Elements and Tines (TriStream Rotor)—Remove and Install



H82539—UN—07MAR05



H73898—UN—30OCT02

A—Cap Screw

IMPORTANT: Rotor is a balanced assembly. Elements and tines must be replaced in sets of three to maintain balance. Replacement kits are available through service parts and include new cap screws with pre-applied Threadlock and Sealer. Tines or elements that become loose may result in machine damage.

If tines or elements need to be removed for other than replacement, mark location on tine (s)/element(s) and rotor, prior to removal. Install in same location as removed to maintain balance. Always use new cap screws.

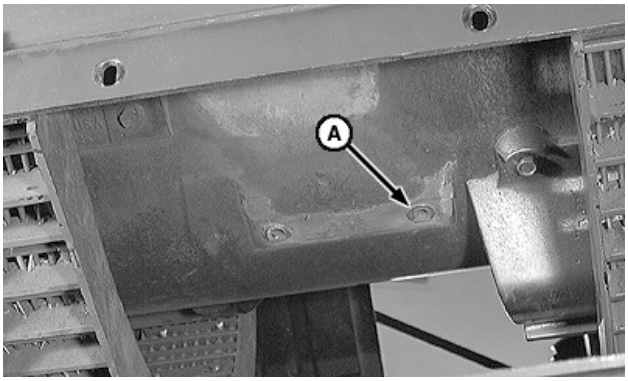
Make sure to clean out tailings and front cross auger if tine replacement is due to broken or damaged tines. Failure to do so before initial start-up may allow broken tines to recirculate and cause tine damage to reoccur.

1. Shut OFF engine, set park brake and remove key.
2. Remove separator grates or concave sections as needed to access rotor.

NOTE: Depending on machine option, refer to the following in this section:

- *Concave Sections (Standard Concave Adjust)—Remove and Install*
- *Concave Sections (Active Concave Isolation)—Remove and Install*

3. Inspect wear on threshing elements and separator tines using KXE10110 Clearance Gauge.
4. Remove cap screws (A) and threshing element or tine.



H54006—UN—18FEB99

A—Threaded Insert

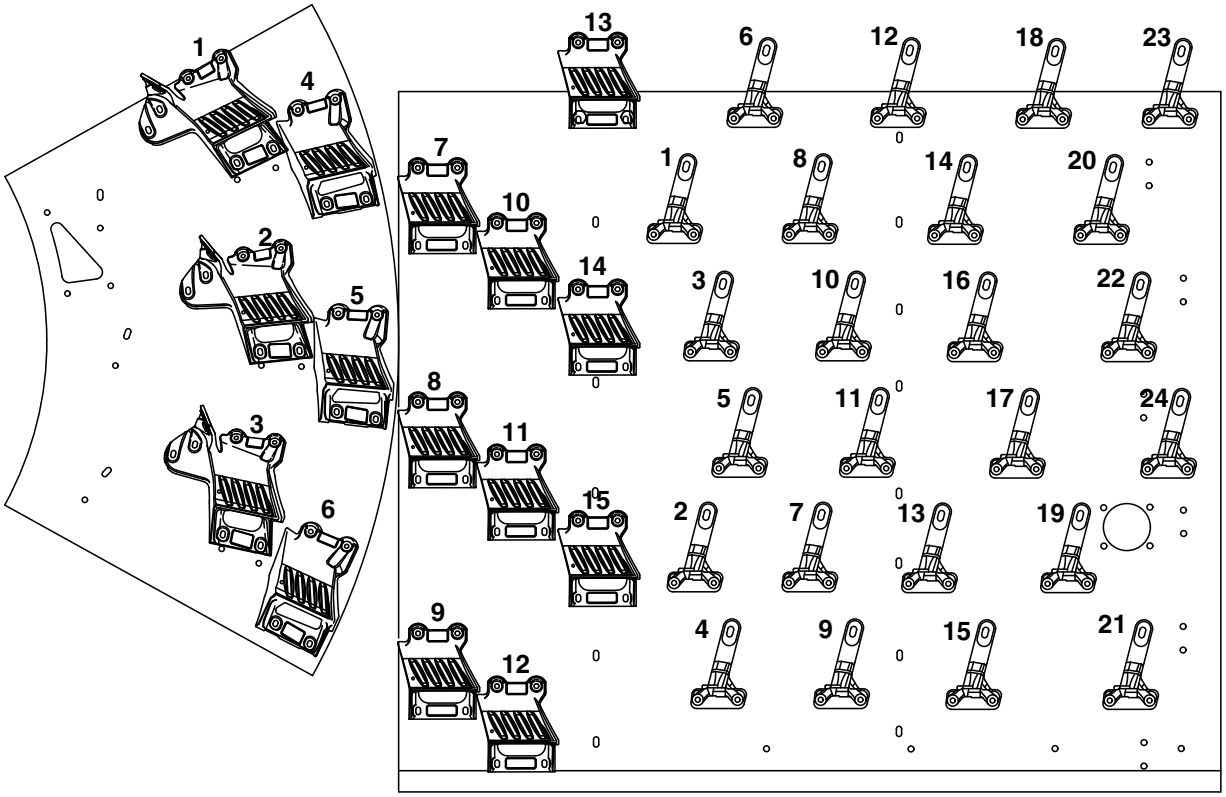
5. Inspect RIVNUT® threaded inserts (A). Replace if damaged.
6. If one element or tine needs replaced, replace all in the group. Example: If element 2 needs to be replaced, replace elements 1 and 3 also.
7. Use Threshing Elements and Separator Tine Location diagram for identifying elements and tines.
8. Tighten cap screws to specification.

Specification	
Threshing Element and Separator Tine Cap Screws—Torque	90 N·m (66 lb.-ft.)

OUO6075,0001804-19-13MAY14

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Threshing Element and Separator Tine Location (TriStream™ Rotor Standard Configuration) (S760 and S770) (Australia and New Zealand Only)

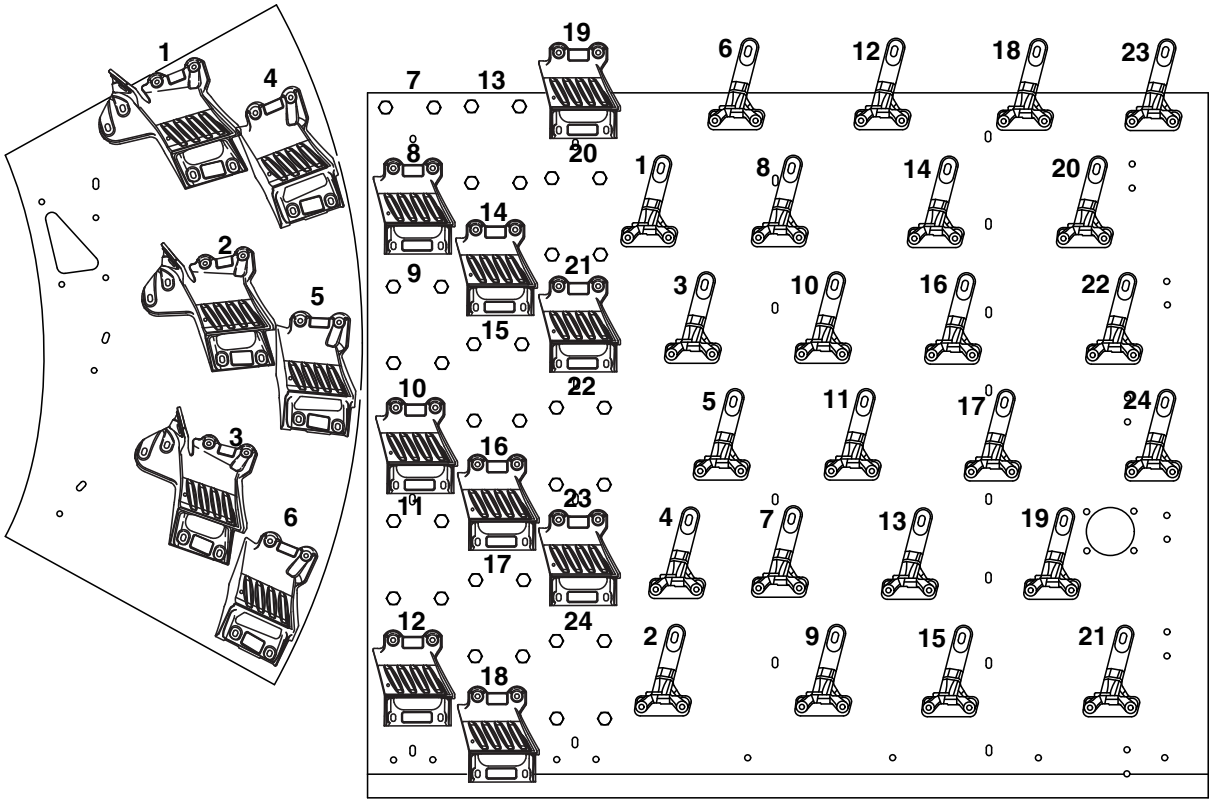


H82365—UN—03FEB05

Threshing Element Groups (Standard Rotor Configuration)	Separator Tine Groups (Standard Rotor Configuration)
Group 1 Elements = 1, 2, 3	**Group 1 Tines =** 1, 4, 5
Group 2 Elements = 4, 5, 6	**Group 2 Tines =** 2, 3, 6
Group 3 Elements = 7, 8, 9	**Group 3 Tines =** 8, 9, 11
Group 4 Elements = 10, 11, 12	**Group 4 Tines =** 7, 10, 12
Group 5 Elements = 13, 14, 15	**Group 5 Tines =** 13, 16, 18
	Group 6 Tines = 14, 15, 17
	Group 7 Tines = 19, 22, 23
	Group 8 Tines = 20, 21, 24

OUO6075,00044A2-19-11NOV16

Threshing Element and Separator Tine Location (TriStream Rotor Tough Grain Configuration)



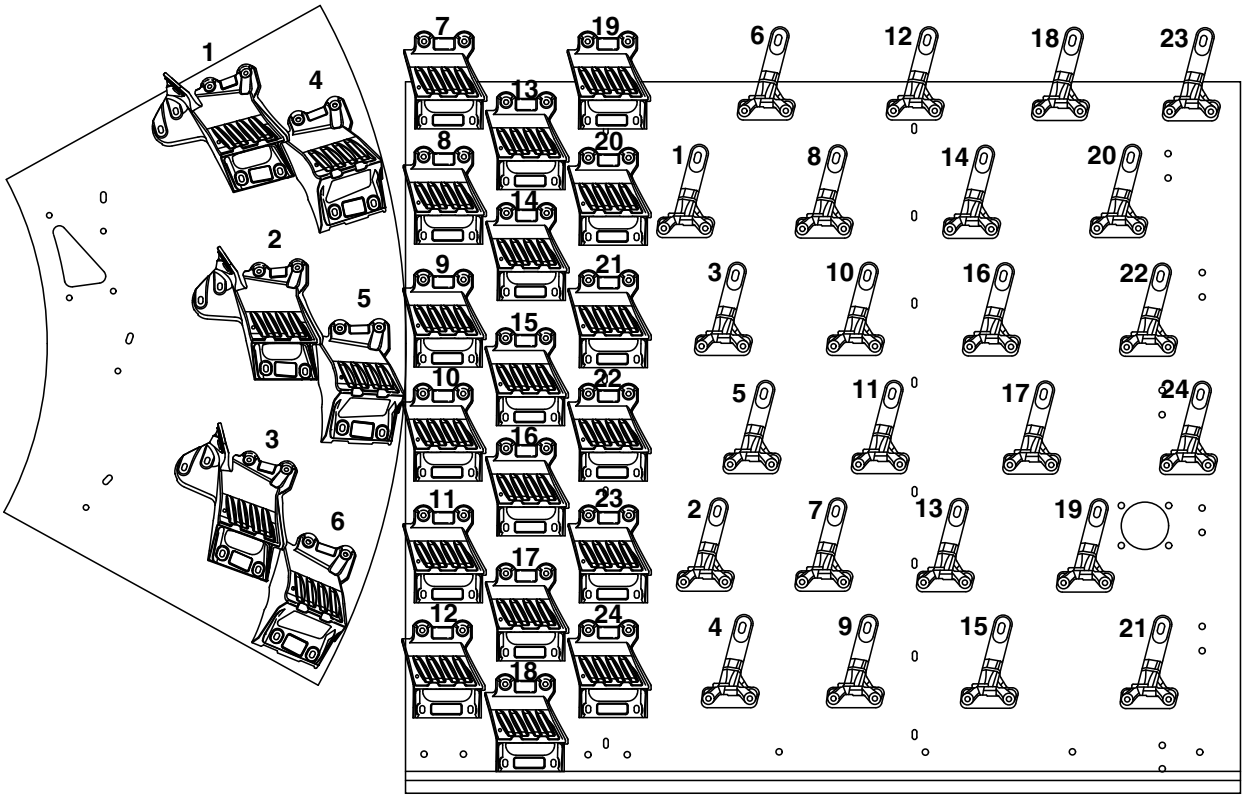
H82830—UN—23MAR05

NOTE: Additional elements can be added to the tough grain configuration in locations with an "O" stamped into the rotor if the dense pack configuration is desired.

Threshing Element Groups (Tough Grain Rotor Configuration)	Separator Tine Groups (Tough Grain Rotor Configuration)
Group 1 Elements = 1, 2, 3	**Group 1 Tines =** 1, 4, 5
Group 2 Elements = 4, 5, 6	**Group 2 Tines =** 2, 3, 6
Group 3 Elements = 8, 10, 12	**Group 3 Tines =** 8, 9, 11
Group 4 Elements = 14, 16, 18	**Group 4 Tines =** 7, 10, 12
Group 5 Elements = 19, 21, 23	**Group 5 Tines =** 13, 16, 18
	Group 6 Tines = 14, 15, 17
	Group 7 Tines = 19, 22, 23
	Group 8 Tines = 20, 21, 24

OUO6075,0000B81-19-22MAR11

Threshing Element and Separator Tine Location (TriStream Rotor Dense Pack Configuration)



H82364—UN—03FEB05

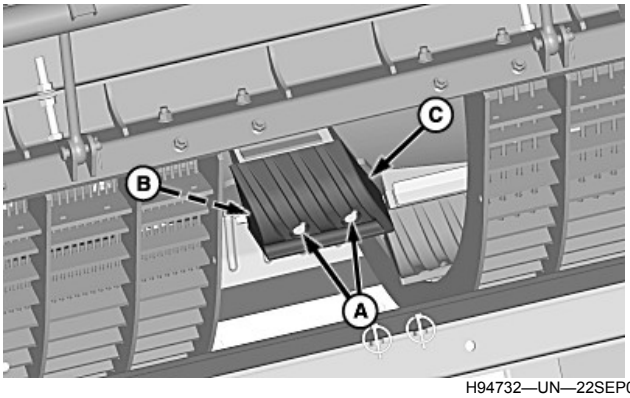
NOTE: Dense pack configuration is field conversion only.

Threshing Element Groups (Dense Pack Rotor Configuration)	Separator Tine Groups (Dense Pack Rotor Configuration)
Group 1 Elements = 1, 2, 3	**Group 1 Tines =** 1, 4, 5
Group 2 Elements = 4, 5, 6	**Group 2 Tines =** 2, 3, 6
Group 3 Elements = 7, 9, 11	**Group 3 Tines =** 8, 9, 11
Group 4 Elements = 8, 10, 12	**Group 4 Tines =** 7, 10, 12
Group 5 Elements = 13, 15, 17	**Group 5 Tines =** 13, 16, 18
Group 6 Elements = 14, 16, 18	**Group 6 Tines =** 14, 15, 17
Group 7 Elements = 19, 21, 23	**Group 7 Tines =** 19, 22, 23
Group 8 Elements = 20, 22, 24	**Group 8 Tines =** 20, 21, 24

OUO6075,0000B80-19-22MAR11

Threshing Elements and Tines (Variable Stream Rotor)—Remove and Install

Threshing Elements



H94732—UN—22SEP09

A—Cap Screws
B—Threaded Strap
C—Threshing Element

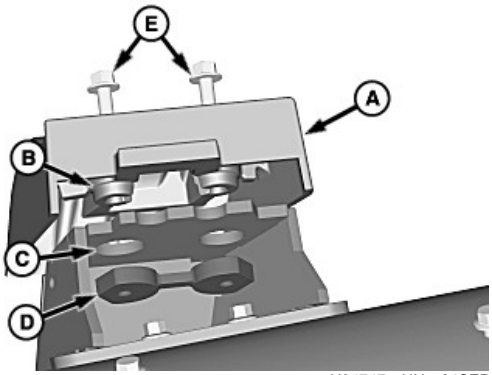
IMPORTANT: Rotor is a balanced assembly. Elements must be replaced in groups of three to maintain balance. When installing more than one kit, do not mix and match elements. Replacement kits are available through service parts and include cap screws with pre-applied Thread Lock and Sealer. Always use supplied cap screws. Elements that become loose may result in machine damage.

1. Shut OFF engine, set park brake and remove key.
2. Remove concave sections as needed to access threshing elements.

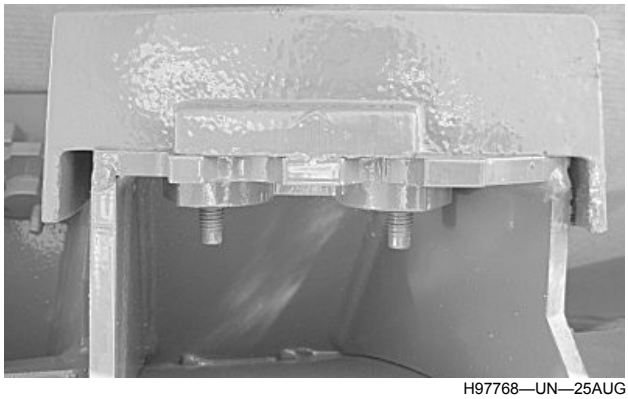
NOTE: Depending on machine option, refer to the following in this section:

- *Concave Sections (Standard Concave Adjust)—Remove and Install*
- *Concave Sections (Active Concave Isolation)—Remove and Install*

3. Inspect wear on threshing elements using KXE10110 Clearance Gauge.
4. Remove and discard cap screws (A) and retain threaded strap (B) from threshing element (C) as needed.

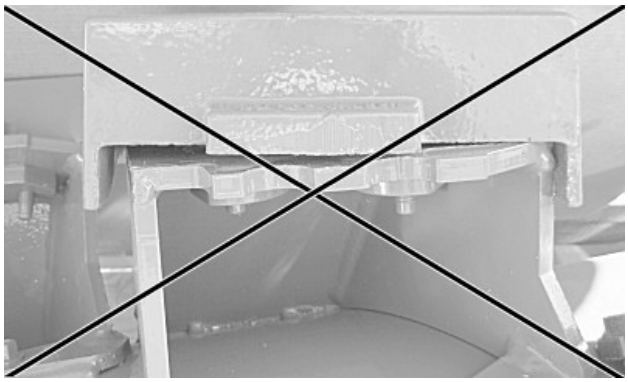


H94747—UN—24SEP09



H97768—UN—25AUG10

Fully Seated



H97769—UN—26AUG10

Not Fully Seated

A—Threshing Element
B—Element Boss
C—Rotor Base Hole
D—Threaded Strap
E—Cap Screws

5. Install replacement threshing element (A) onto rotor base. (Use Threshing Element location diagram to identify threshing elements).

Threshing Element Groups
Group 1 Elements = 1, 2, 3
Group 2 Elements = 4, 5, 6
Group 3 Elements = 7, 8, 9
Group 4 Elements = 10, 11, 12
Group 5 Elements = 13, 14, 15

6. Verify element boss (B) is fully seated through rotor base holes (C).
7. Install previously removed threaded strap (D) and supplied cap screws (E).
8. Tighten cap screws to specification.

Specification

Threshing Elements Cap Screws—Torque. . . . . 87 ± 9 N·m (64 ± 7 lb.-ft.)

IMPORTANT: Verify that elements are seated properly after tightening.

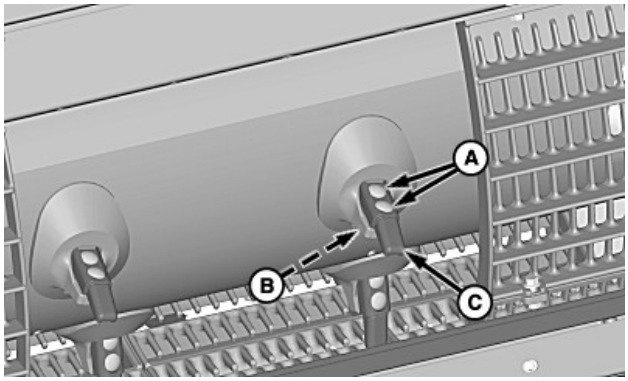
Rice threshing elements are taller than corn/grain threshing elements. Concave level must be adjusted.

9. Adjust concave levelness. (See Concave Leveling in this section).
10. Adjust concave levelness.

NOTE: Depending on machine option, refer to the following in this section:

- *Concave Leveling (Standard Concave Adjust)*
- *Concave Leveling (Active Concave Isolation)*

Separator Tines



H94733—UN—22SEP09

A—Round Head Cap Screws
B—Lock Nuts (2 used)
C—Separator Tines

IMPORTANT: Rotor is a balanced assembly. Tines must be replaced in pairs to maintain balance. When installing more than one kit, do not mix and match tines. Always use supplied cap screws. Tines that become loose may result in machine damage.

1. Remove separator grates as needed to access separator tines.

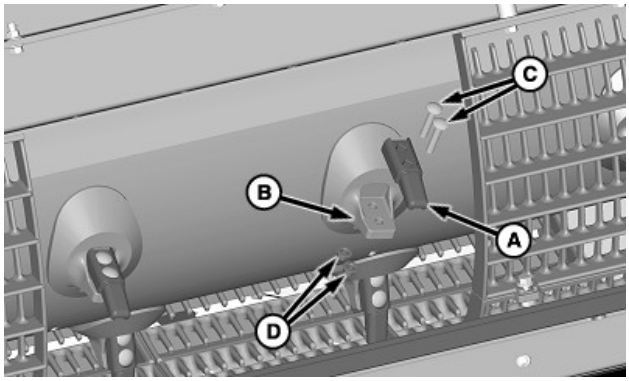
NOTE: Depending on machine option, refer to the following in this section:

- *Concave Sections (Standard Concave Adjust)—Remove and Install*
- *Concave Sections (Active Concave Isolation)—Remove and Install*

2. Inspect wear on separator tines using KXE10110 Clearance Gauge.

NOTE: For ease of removal, shift rotor gear case to neutral position.

3. Remove and discard round head cap screws (A), nuts (B) and separator tines (C) as needed.



H94751—UN—25SEP09

A—Separator Tine
B—Rotor Base
C—Round Head Cap Screws
D—Nuts

IMPORTANT: Separator tines MUST be replaced in pairs to maintain proper balance.

Separator Tine Pairs	
1-2	11-12
3-4	13-14
5-6	15-16
7-8	17-18
9-10	19-20

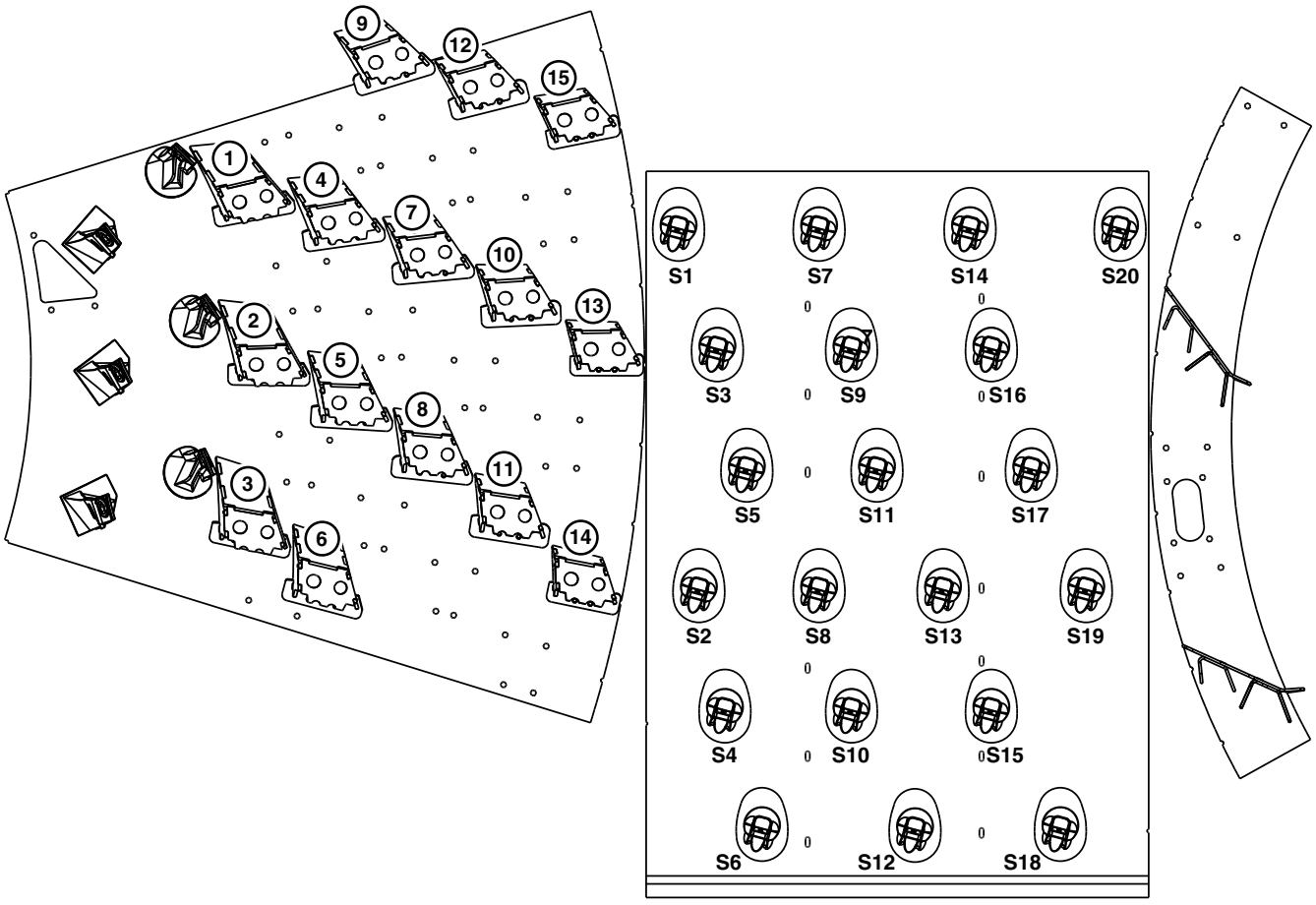
4. Install supplied separator tine (A) onto rotor base (B). (Use Separator Tine location diagram to identify separator tines).
5. Install supplied round head cap screws (C) and retain with nuts (D).
6. Tighten nuts to specification.

Specification

Tine Cap Screws—Torque. . . . . 75 ± 11 N·m (55 ± 8 lb.-ft.)

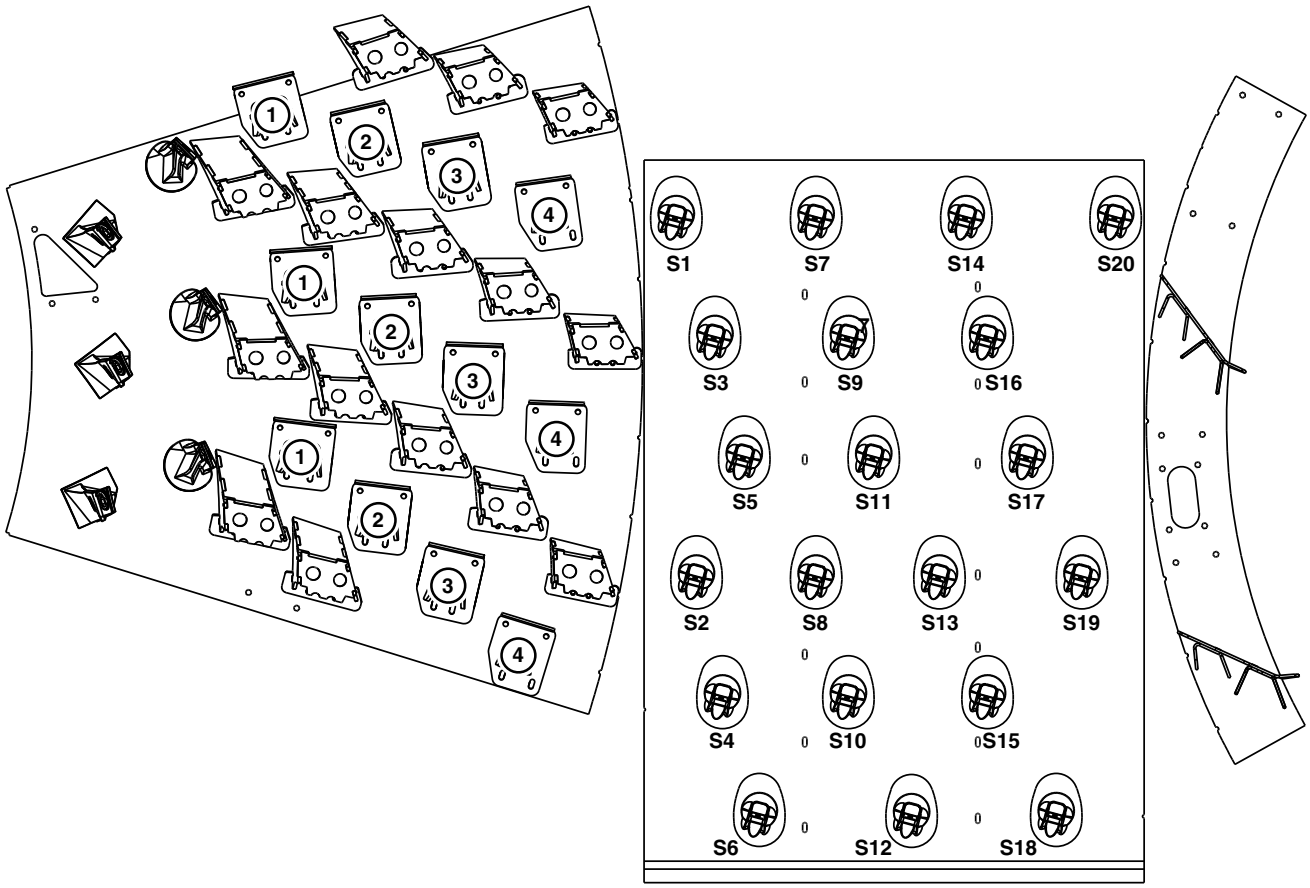
OUO6075,0001805-19-13MAY14

Threshing Element and Separator Tine Location (Variable Stream Rotor Standard Configuration)



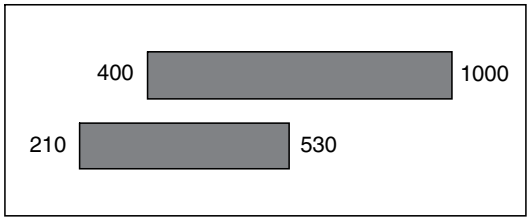
H94731—UN—09MAR10
OUO6075,0000B83-19-07APR11

Threshing Element and Separator Tine Location (Variable Stream Rotor Dense Pack Configuration)

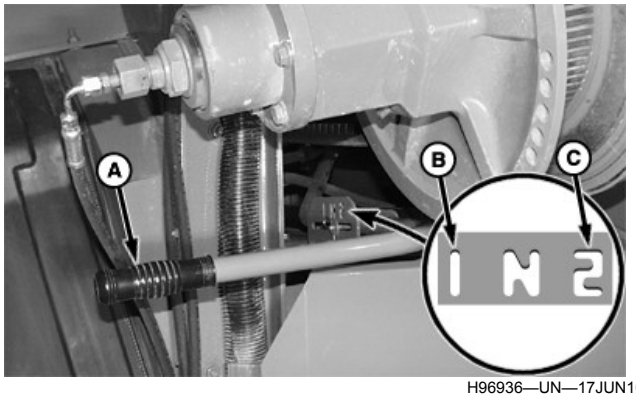


H94748—UN—08MAR10
OUO6075,0000B84-19-07APR11

Posi-Torq™ Separator—Dual-Range



H96715—UN—02JUN10



H96936—UN—17JUN10

A—Handle
B—Low-Speed Position (1)
C—High-Speed Position (2)

CAUTION: Shut OFF engine, set park brake and remove key before shifting Posi-Torq™ separator.

Posi-Torq is a trademark of Deere & Company

NOTE: Use slowest possible speed with large seed crops to prevent damage.

To shift from low to high speed or high to low speed, move handle (A) to detented neutral position.

For low-speed position (B), push handle towards the separator side sheet.

For high-speed position (C), pull handle away from the separator side sheet.

To fully engage drive, it may be necessary to rotate variable sheaves a small amount while moving shift handle.

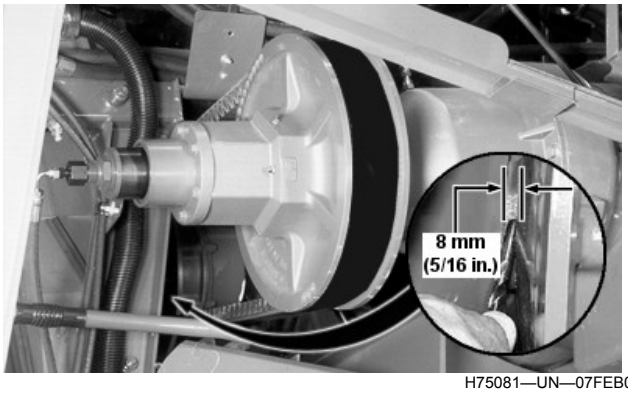
NOTE: Verify that gears are fully engaged.

When changing separator speeds, make sure to cycle power ON and OFF to recognize new speed range.

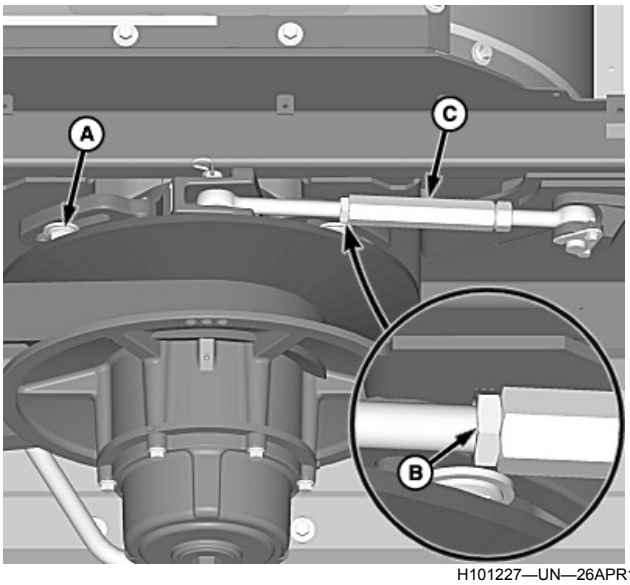
Shift to low speed if operating below 530 rpm for extended periods.

OUO6075,00045D0-19-20MAR17

Separator Drive Sheave Gap—Adjusting



H75081—UN—07FEB03



H101227—UN—26APR11

A—Cap Screw (4 used)
B—Nut
C—Turnbuckle

IMPORTANT: If gap is more than 10 mm (3/8 in), it limits sheave travel. Any of these failures can occur when drive is operated at the high end of the variable drive range:

- **Belt stretch or failure**
- **Bearing or shaft failure**

If gap is less than 6 mm (1/4 in), it limits torque sensing. Any of these failures can occur when drive is operated at the low end of the variable range:

- **Belt failure**
- **Belt slippage**

If unable to obtain high speed while operating at high end of variable drive range or belt slippage occurs while operating at the low end of the variable drive, check for incorrect gap. For best performance, set gap to specification.

Specification

Sheaves—Gap. . . . . 8 mm ± 2 mm (5/16 in ± 1/16 in)

With separator engaged, set separator drive to slowest speed allowing driven sheaves to close.

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen cap screws (A) around gear case.

NOTE: Shift gear case to neutral to properly seat belt between sheaves. Manually rotate sheaves, while adjusting turnbuckle.

Loosen nut (B) and adjust the turnbuckle (C) to obtain the specified gap between the driven sheaves.

Specification

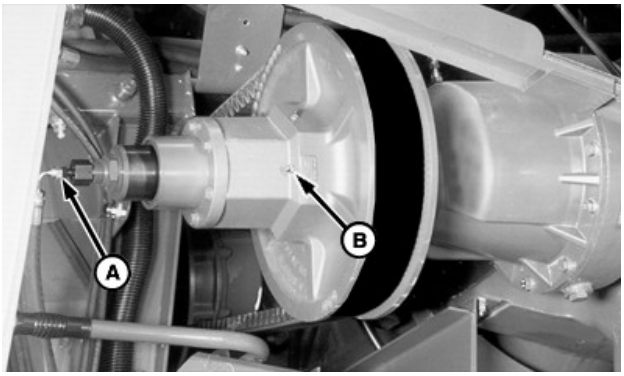
Sheaves—Gap. . . . . 8 mm (5/16 in)

Tighten nut (B) and cap screws (A).

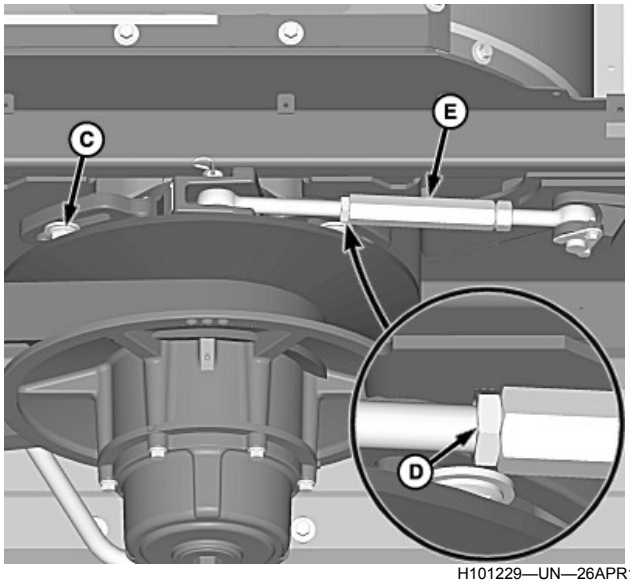
Shift gear case to desired speed range.

OUO6075,00046EA-19-11APR17

Separator Variable Drive Belt—Replacing



H101228—UN—26APR11



H101229—UN—26APR11

A—Hose
B—Plug
C—Cap Screw (4 used)
D—Nut
E—Turnbuckle

With separator engaged, set separator drive to slowest speed allowing driven sheaves to close.

CAUTION: Shut OFF engine, set park brake and remove key.

Shift gear case to neutral position.

Disconnect hose (A) at the rotary hydraulic coupling using two wrenches.

Clean and remove the plug (B) to relieve vacuum in grease cavity.

Pry driver sheaves open.

NOTE: Remove shielding as needed to gain access to the separator variable drive belt.

Loosen cap screws (C) around gear case.

Loosen nut (D) and adjust the turnbuckle (E) to move the gear case and sheave assembly to the left.

Remove and replace belt. Rotate pulleys by hand to seat the belt.

Rotate pulleys and adjust the turnbuckle to obtain the specified gap between the driven sheaves.

Specification

Sheaves—Gap. . . . . 8 mm (5/16 in)

Tighten nut (D) and cap screws (C).

NOTE: Install shielding previously removed to gain access to the separator variable drive belt.

Install plug (B) and hydraulic hose (A) on the driver sheave.

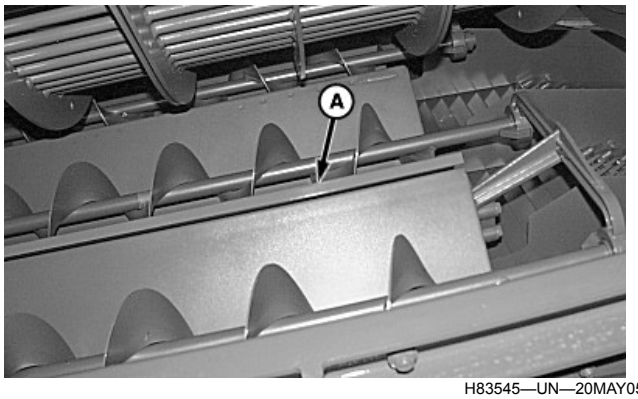
Shift gear case to desired speed range.

Start engine and engage separator. Cycle variable drive through speed range several times. Disengage separator drive.

NOTE: Check sheave gap again after several hours and adjust as required.

OUO6075,00046EB-19-11APR17

Auger Bed Dividers



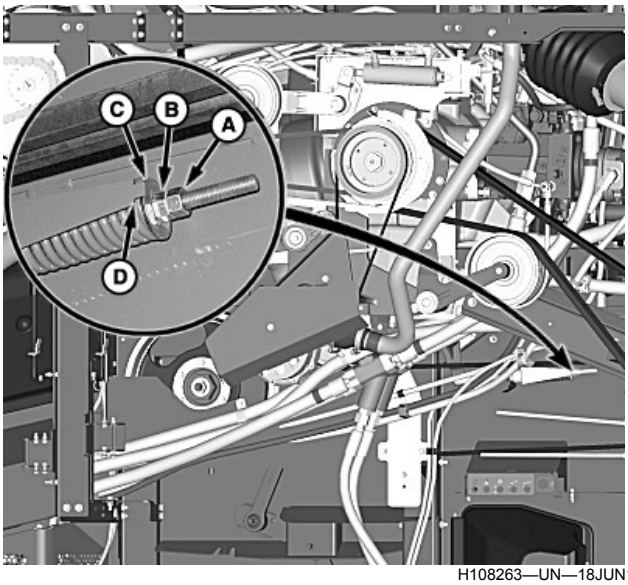
H83545—UN—20MAY05

A—Auger Bed Dividers

To prevent high seed losses or to prevent material building up on one side while harvesting on hillsides, move auger bed dividers (A) in an upwards direction.

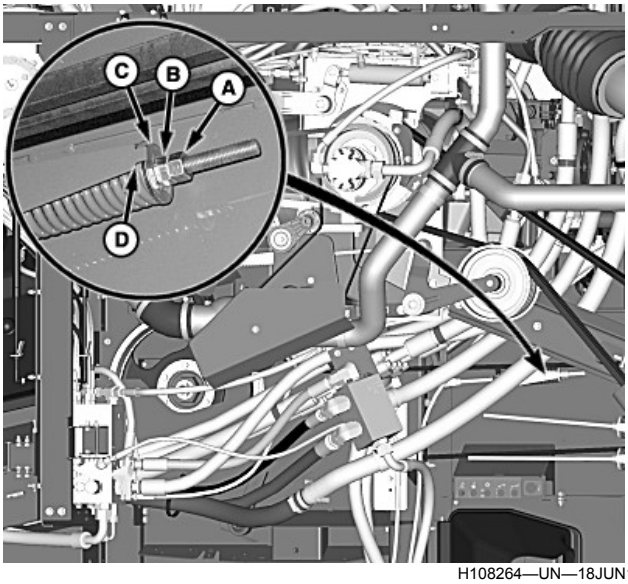
OUO6075,0000755-19-20MAR07

Discharge Beater Belt—Adjusting



H108263—UN—18JUN13

Style A



H108264—UN—18JUN13

Style B

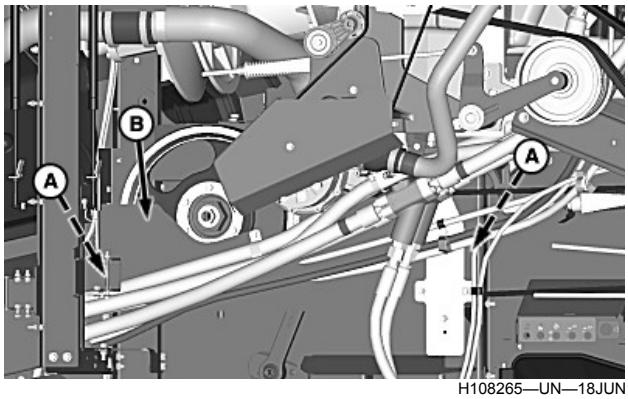
A—Nut
B—Nut
C—Washer
D—Gauge

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nut (A) and tighten the nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

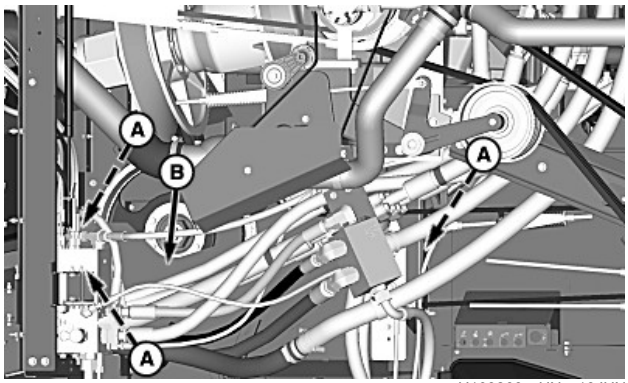
OUO6075,000438F-19-10OCT16

Discharge Beater Belt—Replacing



H108265—UN—18JUN13

Style A



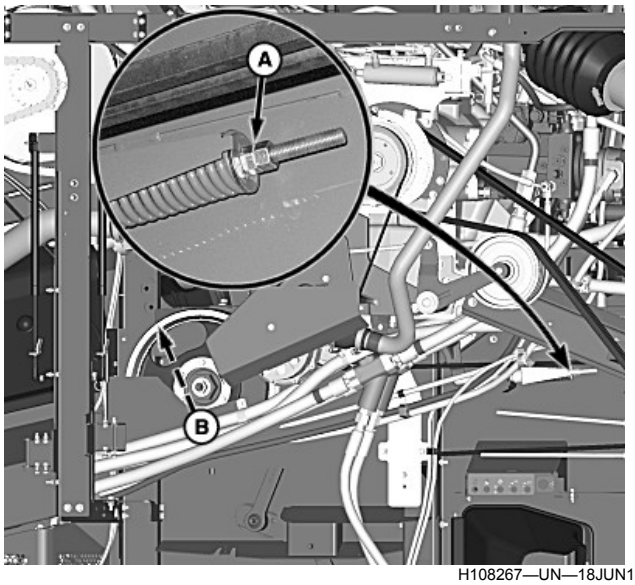
H108266—UN—18JUN13

Style B

A—Cap Screws
B—Shield

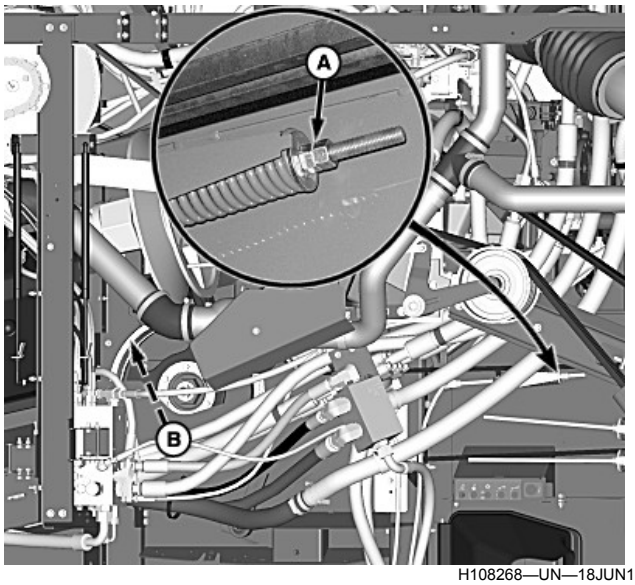
CAUTION: Shut OFF engine, set park brake and remove key.

Remove cap screws (A) and shield (B) from left-hand rear of machine.



H108267—UN—18JUN13

Style A



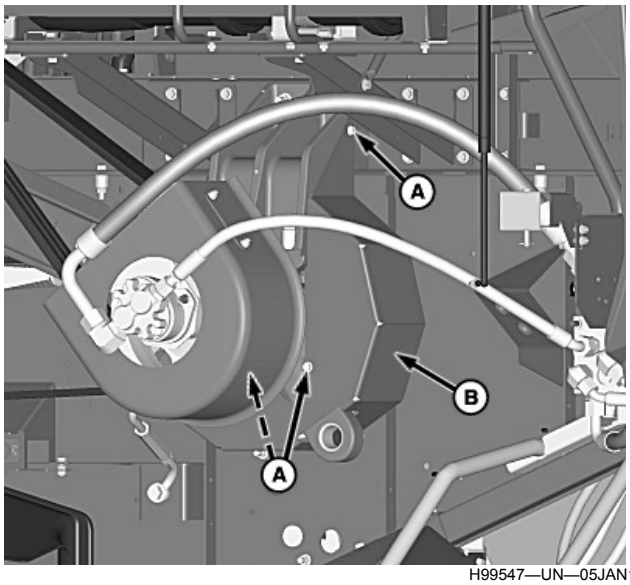
H108268—UN—18JUN13

Style B

A—Nuts
B—Discharge Beater Belt

Loosen nuts (A) and remove belt (B) from sheave.

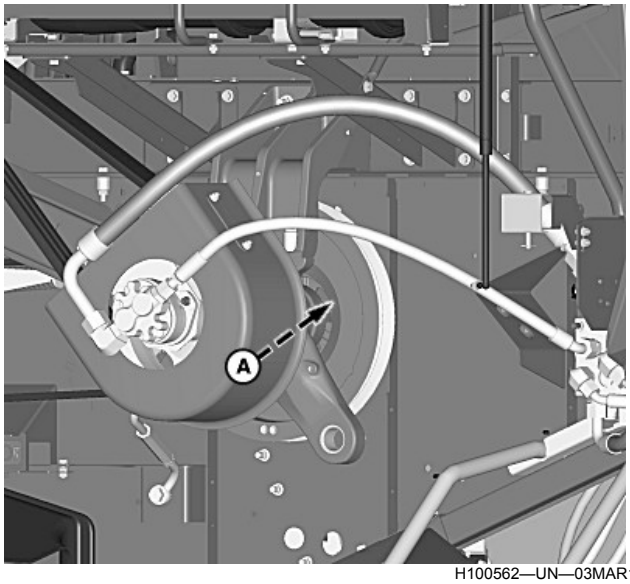
Spreader Equipped Machines



H99547—UN—05JAN11

A—Cap Screws
B—Shield

Remove cap screws (A) and shield (B).



H100562—UN—03MAR11

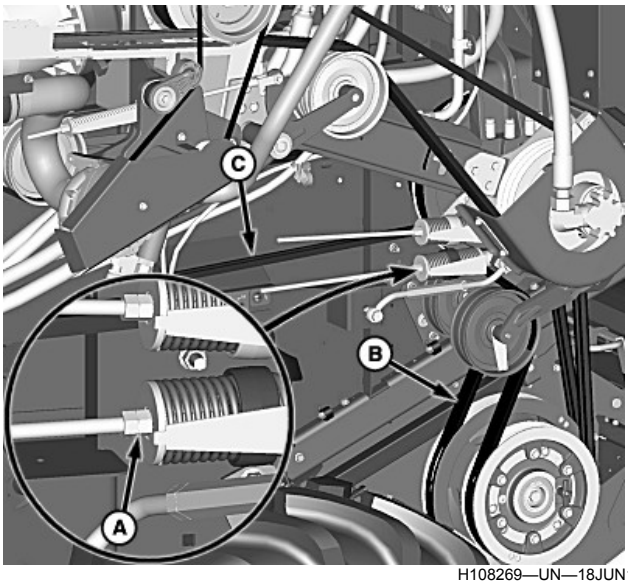
A—Discharge Beater Belt

Remove and discard belt (A) from jackshaft.

Install replacement discharge beater belt onto jackshaft.

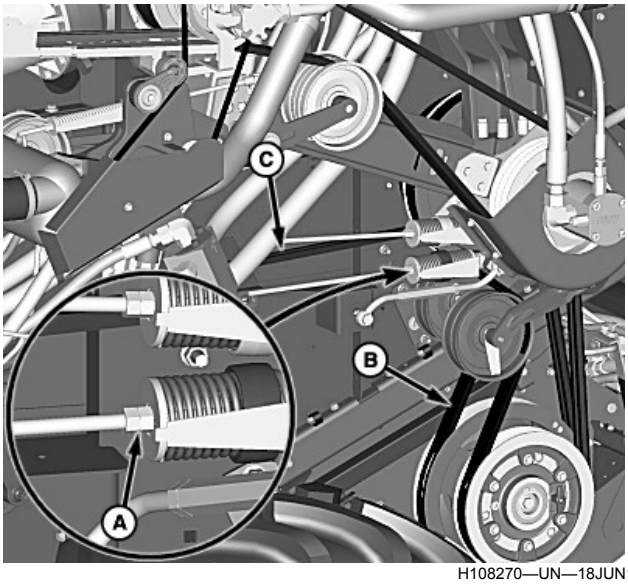
Install previously removed shield and cap screws.

Chopper Equipped Machines



H108269—UN—18JUN13

Style A



H108270—UN—18JUN13

Style B

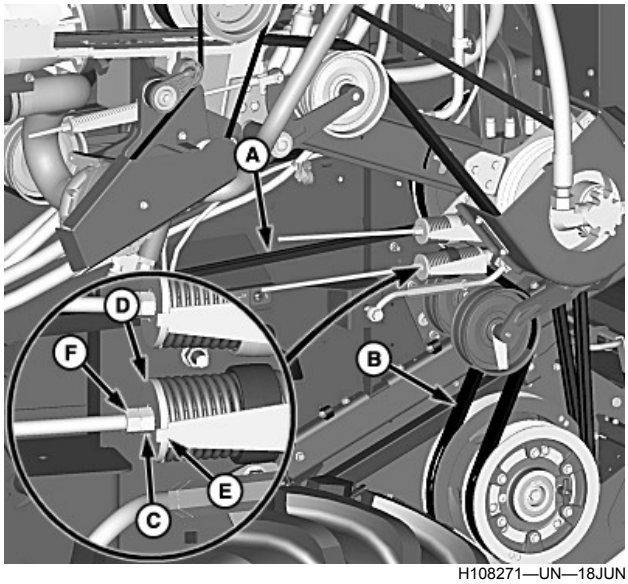
A—Nuts
B—Inner Chopper Drive Belt
C—Discharge Beater Belt

Raise chopper assembly fully with switch on the left-hand side sheet and remove chopper shields.

NOTE: Mark location of tensioner nuts before loosening to aid in reassembly.

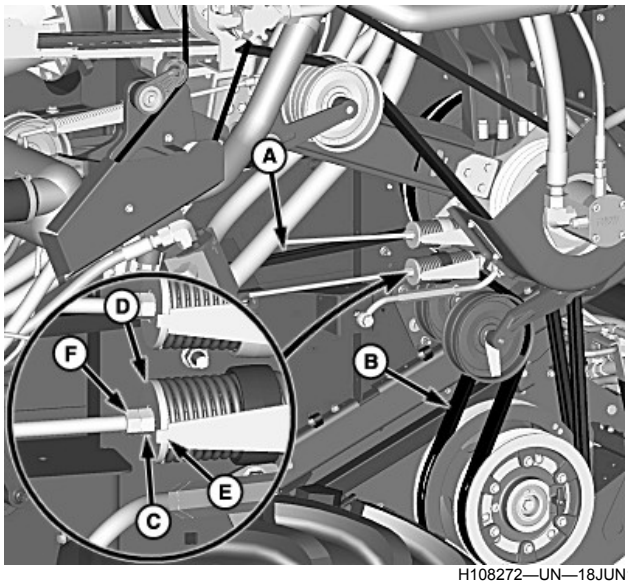
Loosen nuts (A) and remove inner belt (B) from sheave.

Remove and discard belt (C) from chopper jackshaft.



H108271—UN—18JUN13

Style A



H108272—UN—18JUN13

Style B

A—Discharge Beater Belt
B—Inner Chopper Drive Belt
C—Nut
D—Washer
E—Gauge
F—Lock Nut

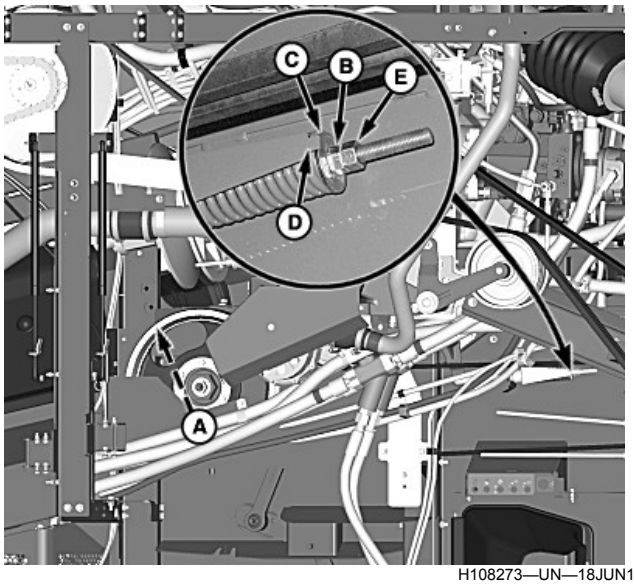
Install replacement discharge beater belt (A) onto chopper jackshaft.

Install inner belt (B) and verify that belt aligns with sheaves.

Lower chopper assembly fully with switch on the left-hand side sheet.

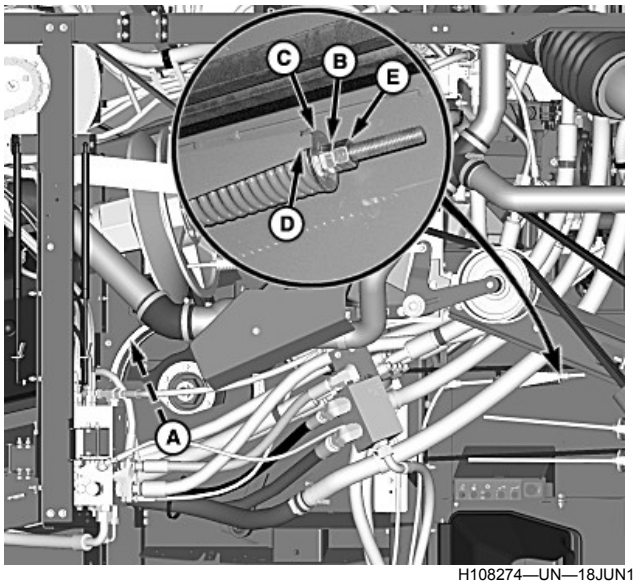
Tighten nut (C) until washer (D) is positioned between end of gauge (E) and bottom of step. Tighten lock nut (F).

Install previously removed chopper shields.



H108273—UN—18JUN13

Style A



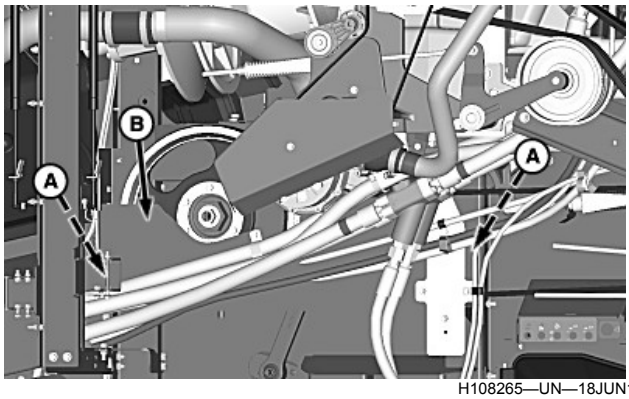
H108274—UN—18JUN13

Style B

A—Discharge Beater Belt
B—Nut
C—Washer
D—Gauge
E—Lock Nut

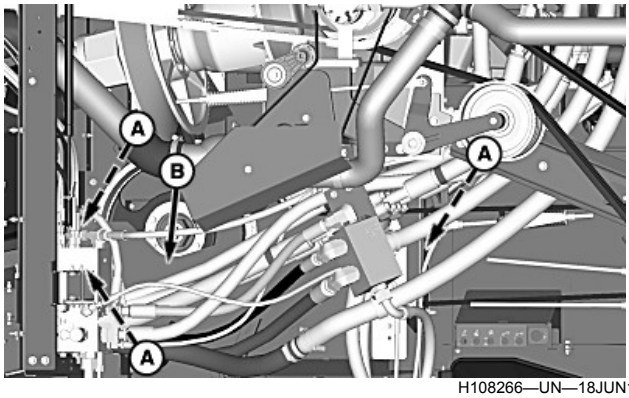
Install discharge beater belt (A) onto sheave.

Tighten nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut (E).



H108265—UN—18JUN13

Style A



H108266—UN—18JUN13

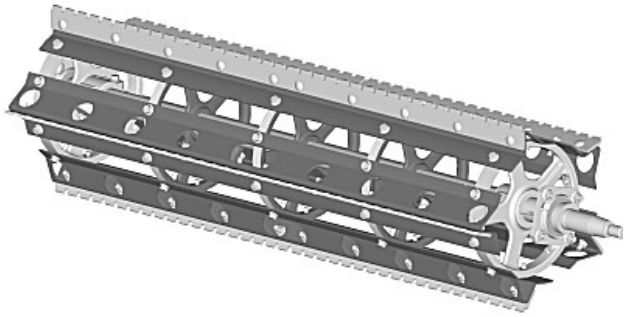
Style B

A—Cap Screws
B—Shield

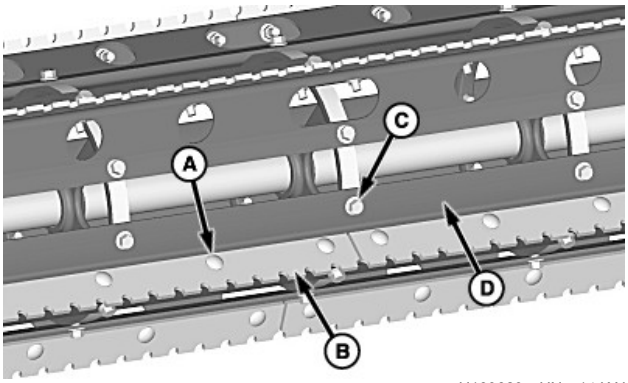
Install shield (B) and retain with cap screws (A).

OUO6075,000438E-19-10OCT16

Discharge Beater Wear Strips—Replacing (5 and 10 Wing Style)



H109628—UN—14JAN14



H109629—UN—14JAN14

A—Round Head Cap Screws
B—Discharge Beater Wear Strip
C—Cap Screws
D—Discharge Beater Wings

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Wear strips can be reversed for additional wear.

Discharge beater wings and wear strips can be replaced without removing the discharge beater.

NOTE: If discharge beater is removed from machine, or has been serviced, tighten clamp bolts before securing wings.

Remove round head cap screws (A) and replace discharge beater wear strips (B) as required. Tighten round head cap screws to specification.

Specification

Discharge Beater Wear Strip
Round Head Cap
Screws—Torque. . . . . 70 N·m (52 lb·ft)

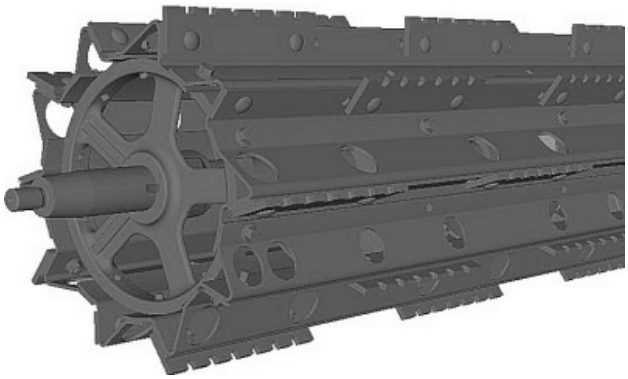
Remove cap screws (C) and replace discharge beater wings (D) as required. Tighten cap screws to specification.

Specification

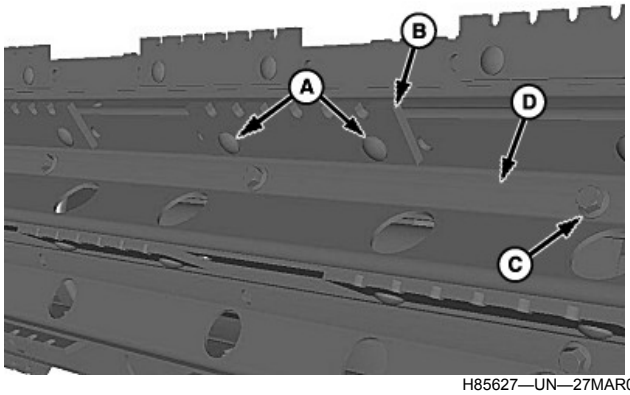
Discharge Beater Wing Cap
Screws—Torque. . . . . 70 N·m (52 lb·ft)

OUO6075,000464E-19-13MAR17

Standard Discharge Beater Wear Strips—Replacing (8 Wing Style)



H85626—UN—27MAR06



H85627—UN—27MAR06

Discharge Beater Wings and Wear Strips (Standard)

A—Round Head Bolts
B—Discharge Beater Wear Strip
C—Cap Screws
D—Discharge Beater Wings

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Wear strips can be reversed for additional wear.

Discharge beater wings and wear strips can be replaced without removing the discharge beater. Replace discharge beater wings in sets of two and opposite of each other to maintain proper balance.

NOTE: If discharge beater is removed from machine, or has been serviced, tighten clamp bolts before securing wings.

Remove round head bolts (A) and replace discharge beater wear strips (B) as required. Tighten round head bolts to specification.

Specification

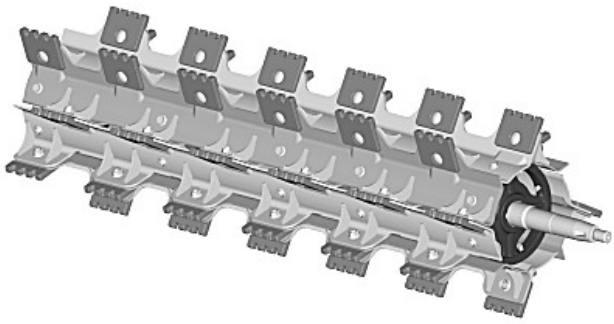
Discharge Beater Wear Strip
Round Head Bolts—Torque. . . . . 70 N·m (52 lb·ft)

Remove cap screws (C) and replace discharge beater wings (D) as required. Tighten cap screws to specification.

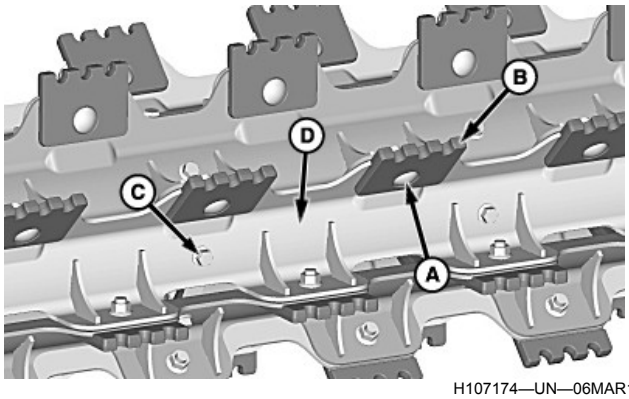
Specification	
Discharge Beater Wing Cap Screws—Torque	70 N·m (52 lb·ft)

OUO6075,000464F-19-20MAR17

Tough Crop Discharge Beater Wear Strip—Replacing



H107173—UN—06MAR13



H107174—UN—06MAR13

Discharge Beater Wings and Wear Strips (Tough Crop)

A—Round Head Cap Screws
B—Discharge Beater Wear Strip
C—Cap Screws
D—Discharge Beater Wings

CAUTION: Shut OFF engine, set park brake and remove key.

Discharge beater wings and wear strips can be replaced without removing the discharge beater. Replace discharge beater wings in sets of two and opposite of each other to maintain proper balance.

NOTE: If the discharge beater is removed from the machine, or has been serviced, tighten clamp bolts before securing wings.

Always replace hardware when replacing discharge beater wear strips.

Remove round head cap screws (A) and replace discharge beater wear strips (B) as required. Tighten round head cap screws to specification.

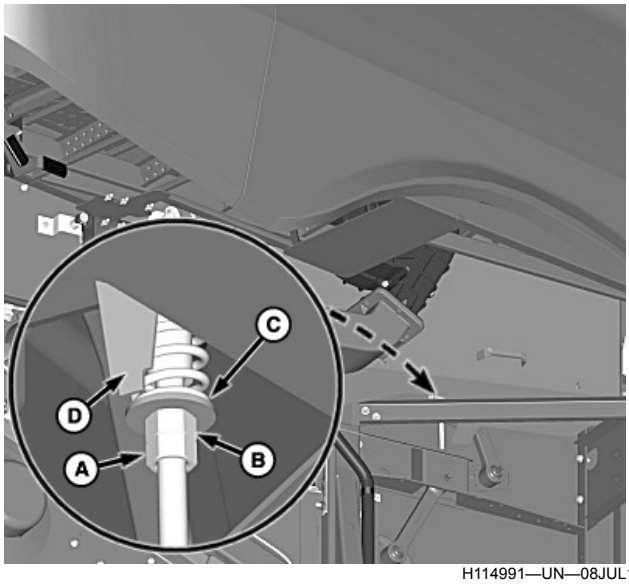
Specification	
Discharge Beater Wear Strip Round Head Cap Screws—Torque	107 N·m (79 lb·ft)

Remove cap screws (C) and replace discharge beater wings (D) as required. Tighten cap screws to specification.

Specification	
Discharge Beater Wing Cap Screws—Torque	70 N·m (52 lb·ft)

OUO6075,0004A14-19-09AUG18

Overshot Beater Belt (If Equipped)—Adjusting



H114991—UN—08JUL15

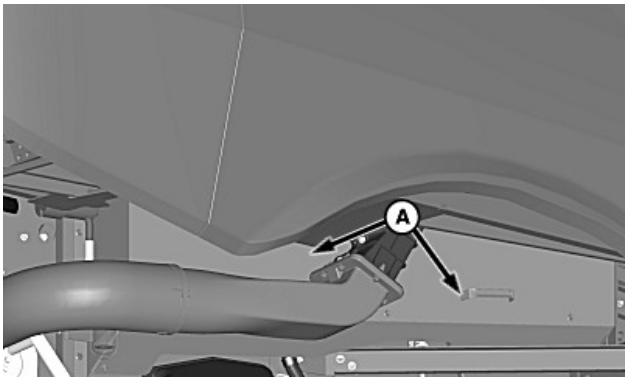
A—Nut
B—Nut
C—Washer
D—Gauge

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nut (A) and tighten the nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,000438D-19-12OCT16

Overshot Beater Belt (If Equipped)—Replacing

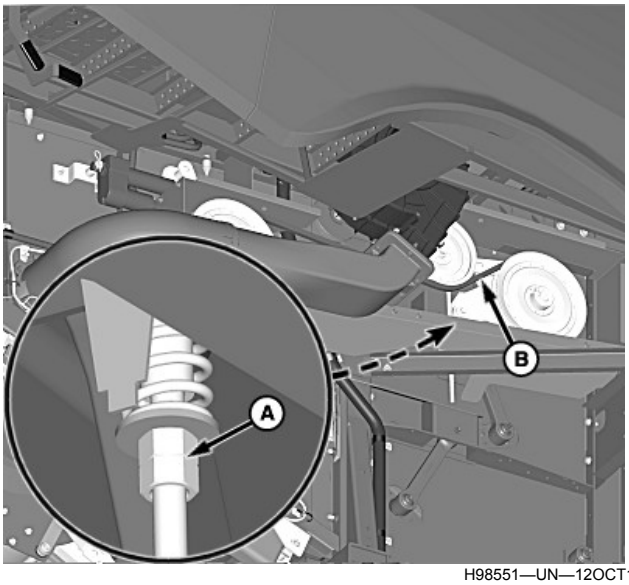


H114992—UN—08JUL15

A—Shields

CAUTION: Shut OFF engine, set park brake and remove key.

Remove cap screws and shields (A) from right-hand rear of machine.



H98551—UN—12OCT10

A—Nuts
B—Overshot Beater Belt

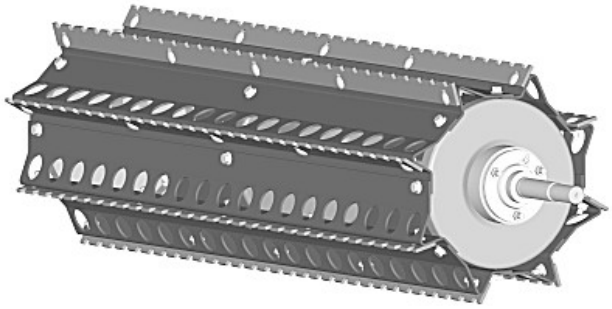
Loosen nuts (A) and remove belt (B) from sheave.

Install replacement belt and adjust the tensioner until washer is positioned between end of gauge and bottom of step. Tighten lock nut.

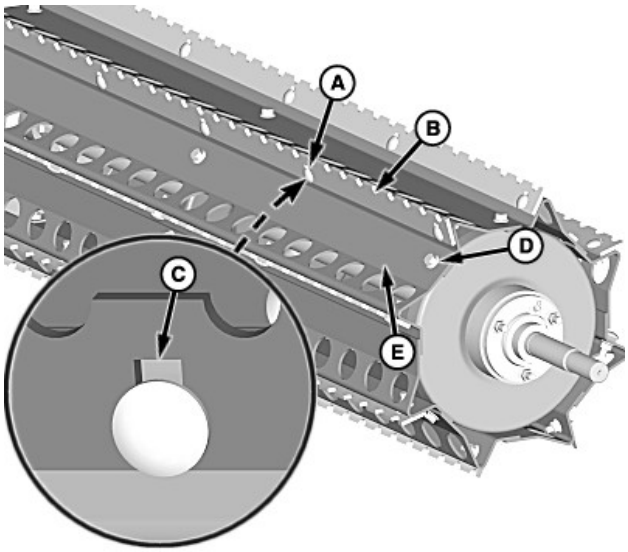
Install shields and retain with cap screws.

OUO6075,0004389-19-12OCT16

Standard Overshot Beater (If Equipped)—Wing Replacing



H98552—UN—12OCT10



H98553—UN—14OCT10

Overshot Beater Wings and Wear Strips (Standard)

A—Round Head Bolts
B—Overshot Beater Wear Strip
C—Notch
D—Cap Screws
E—Overshot Beater Wings

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Wings can be reversed for additional wear.

Overshot beater wings and wear strips can be replaced without removing the overshot beater. Replace overshot beater wings in sets of two and opposite of each other to maintain proper balance.

NOTE: If the overshot beater is removed from machine, or has been serviced, tighten clamp bolts before securing wings. Tighten cap screws to specification.

Remove round head bolts (A) and replace overshot beater wear strips (B) as required.

Adjust overshot beater wear strips outward until at the end of notch (C) as shown.

Tighten round head bolts to specification.

Specification

Overshot Beater Wear Strip
Round Head Bolts—Torque. . . . . 79 N·m (58 lb·ft)

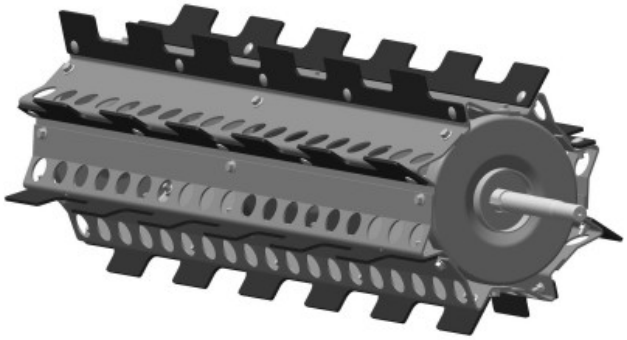
Remove cap screws (D) and replace overshot beater wings (E) as required. Tighten cap screws to specification.

Specification

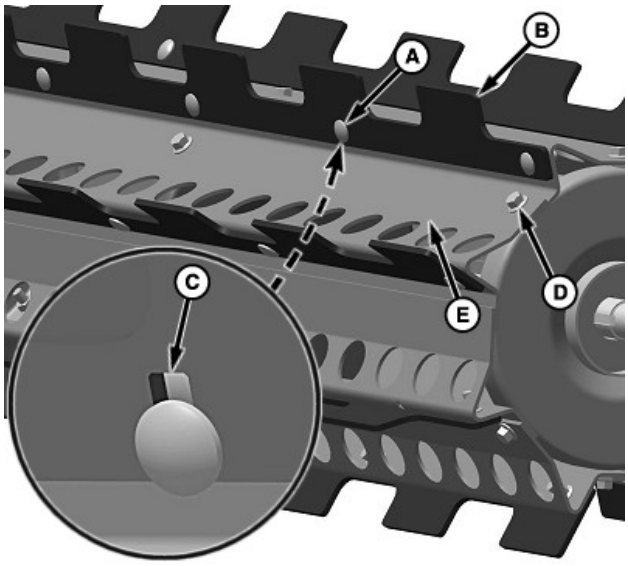
Overshot Beater Wing Cap
Screws—Torque. . . . . 79 N·m (58 lb·ft)

OUO6075,000458F-19-23JAN17

Tough Crop Overshot Beater (If Equipped) —Wing Replacing



H120581—UN—23JAN17



H120582—UN—23JAN17

Overshot Beater Wings and Wear Strips (Tough Crop)

A—Round Head Bolts
B—Overshot Beater Wear Strip
C—Notch
D—Cap Screws
E—Overshot Beater Wings

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Wings cannot be reversed for additional wear.

Overshot beater wings and wear strips can be replaced without removing the overshot beater. Replace overshot beater wings in sets of two and opposite of each other to maintain proper balance.

NOTE: If the overshot beater is removed from machine, or has been serviced, tighten clamp bolts before securing wings. Tighten cap screws to specification.

Remove round head bolts (A) and replace overshot beater wear strips (B) as required.

Adjust overshot beater wear strips outward until at the end of notch (C) as shown.

Tighten round head bolts to specification.

Specification

Overshot Beater Wear Strip
Round Head Bolts—Torque. . . . . 79 N·m (58 lb·ft)

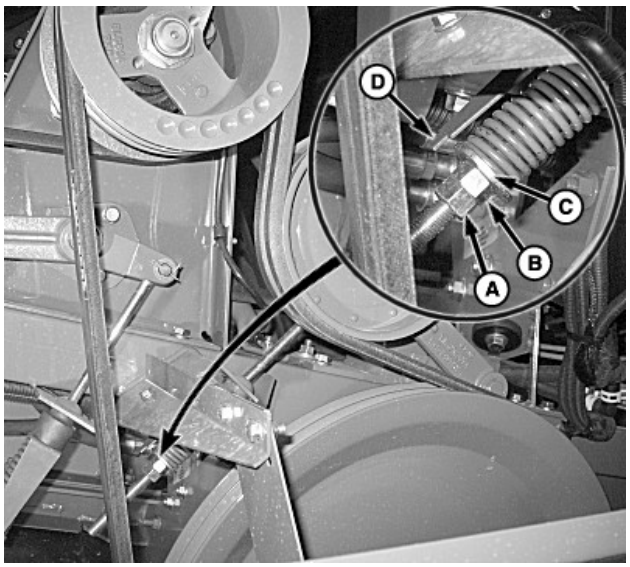
Remove cap screws (D) and replace overshot beater wings (E) as required. Tighten cap screws to specification.

Specification

Overshot Beater Wing Cap
Screws—Torque. . . . . 79 N·m (58 lb·ft)

OUO6075,0004590-19-23JAN17

Countershaft Right-Hand Front Belt—Adjusting



H96938—UN—17JUN10

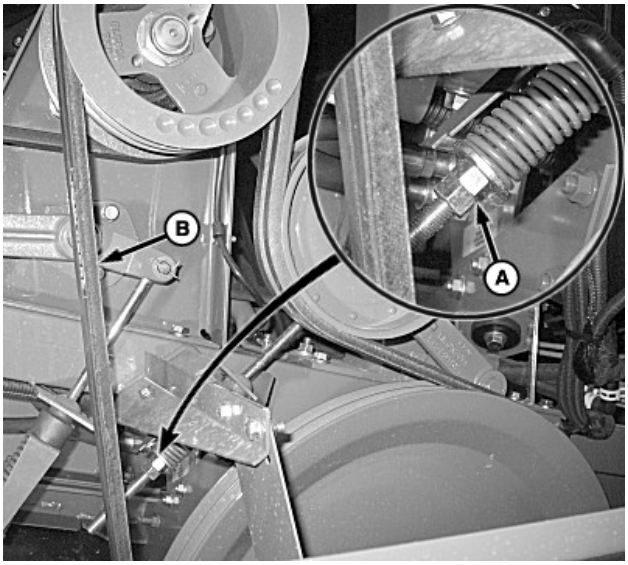
A—Nut
B—Nut
C—Washer
D—Gauge

CAUTION: Shut OFF engine, set parking brake and remove key.

Loosen nut (A) and tighten nut (B) until washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,00007F8-19-17JUN10

Countershaft Right-Hand Front Belt—Replacing



H96924—UN—16JUN10

A—Nuts
B—Right-Hand Front Belt

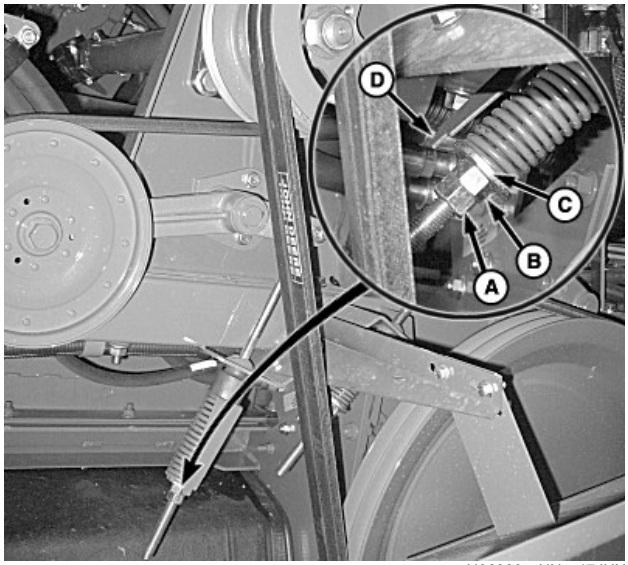
CAUTION: Shut OFF engine, set parking brake and remove key.

Loosen nuts (A) and remove belt (B).

Install replacement belt and adjust tensioner until washer is positioned between end of gauge and bottom of step. Tighten lock nut.

OUO6075,00007F9-19-17JUN10

Countershaft Right-Hand Rear Belt—Adjusting



H96939—UN—17JUN10

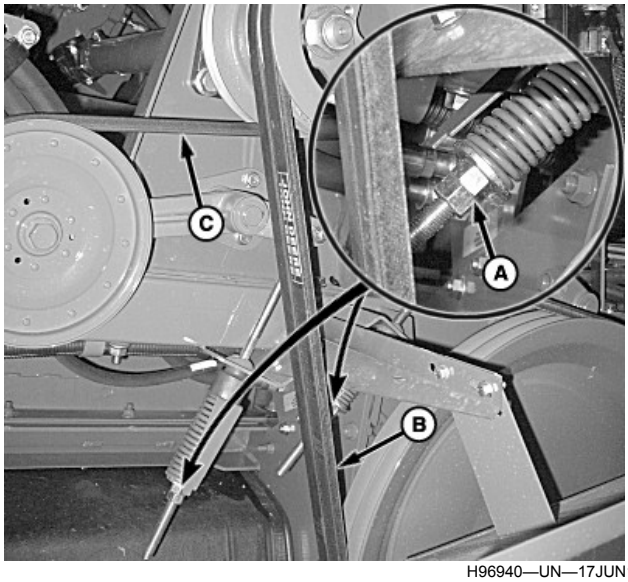
A—Nut
B—Nut
C—Washer
D—Gauge

CAUTION: Shut OFF engine, set parking brake and remove key.

Loosen nut (A) and tighten nut (B) until washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,00007FA-19-17JUN10

Countershaft Right-Hand Rear Belt—Replacing



H96940—UN—17JUN10

A—Nuts
B—Front Countershaft Belt

C—Rear Countershaft Belt

CAUTION: Shut OFF engine, set parking brake and remove key.

Loosen nuts (A) and remove right-hand front countershaft belt (B).

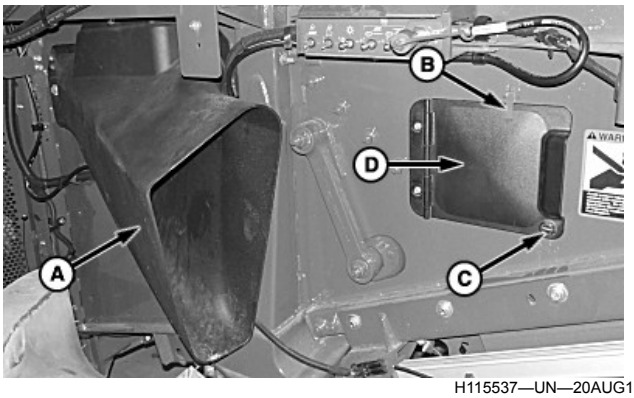
Loosen nuts (A) and remove rear countershaft belt (C).

Install replacement belt and adjust tensioner until washer is positioned between end of gauge and bottom of step.

Install front countershaft belt and adjust tensioner until washer is positioned between end of gauge and bottom of step.

OUO6075,00007FB-19-22JUN10

Cleaning Shoe Air Chutes and Access Door



H115537—UN—20AUG15

A—Air Chute
B—Clip
C—Lock
D—Cleaning Shoe Access Door

CAUTION: Shut OFF engine, set park brake and remove key.

Remove any material found in air chutes (A).

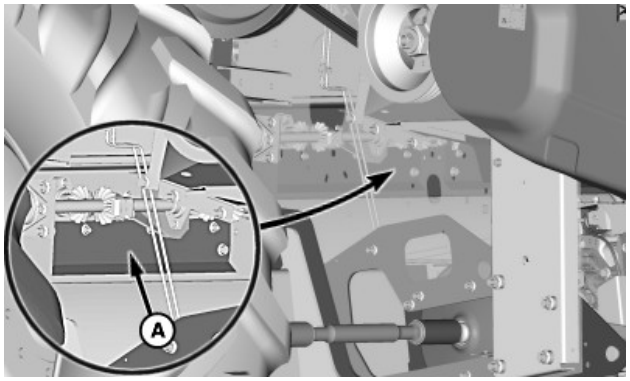
NOTE: Cleaning shoe access door is on the left-hand side of machine only.

Open clip (B) and turn lock (C) to open cleaning shoe access door (D).

Opening access door allows operator to look at cleaning shoe area when adjusting chaffer or sieve or when inspecting cleaning shoe area.

OUO6075,0004121-19-11APR16

Cleaning Shoe Auger Gears—Manual Cleanout Door (If Equipped)



H102538—UN—29JUN11

A—Cleanout Door

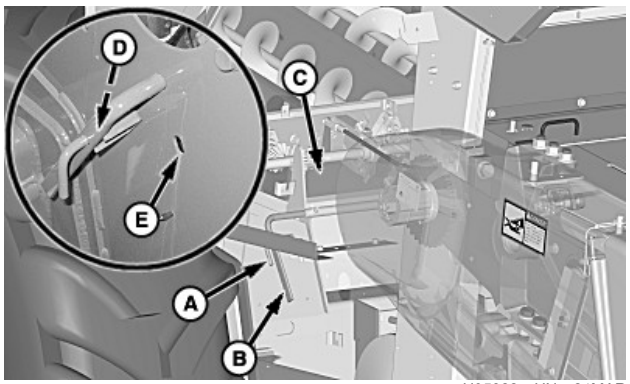
CAUTION: Shut OFF engine, set parking brake and remove key.

Allows operator to clean and inspect the cleaning shoe augers gear area.

Remove cap screws from cleanout door (A) to clean area.

OUO6075,0000CBD-19-29JUN11

Cleaning Shoe Auger Gears—Cleanout Door (If Equipped)



H95822—UN—24MAR10

A—Lock-Out Pin
B—Handle
C—Cleanout Door
D—Closed Position
E—Open Position

CAUTION: Shut OFF engine, set parking brake and remove key.

Allows operator to clean and inspect the cleaning shoe augers gear area.

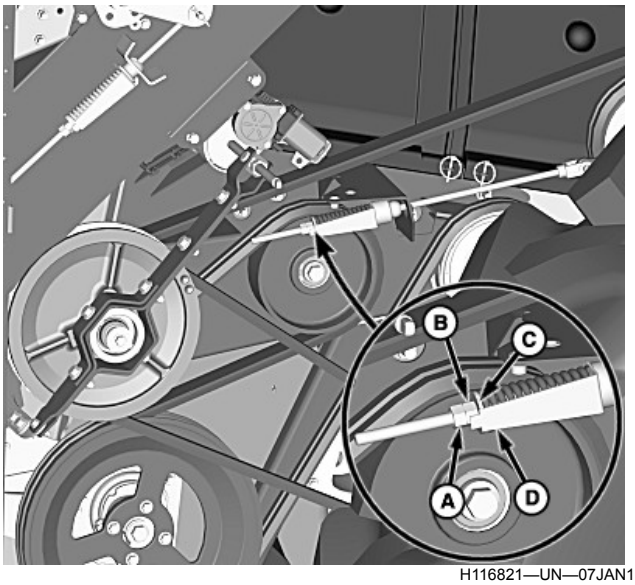
Pull lock-out pin (A) and move handle (B) to open or close cleanout door (C).

Move handle to desired position:

- Closed Position (D)
- Open Position (E)

OUO6075,0000F8B-19-09FEB12

Shoe, Fan, and Conveyor Auger Belt—Adjusting



H116821—UN—07JAN16

Shield Removed for Clarity

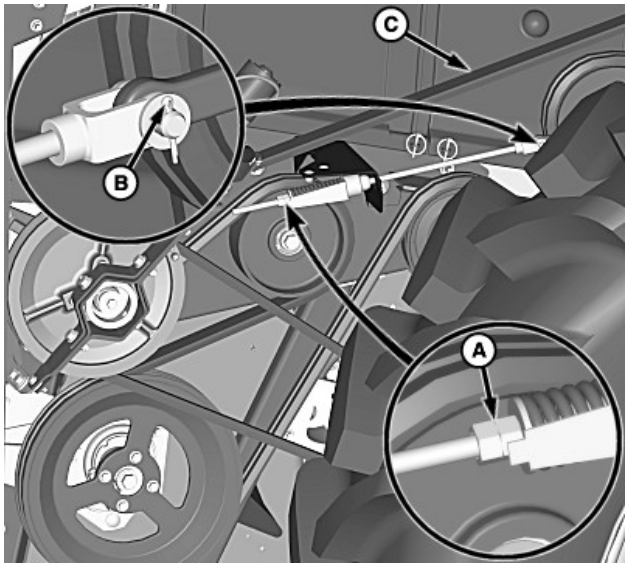
A—Nut
B—Nut
C—Washer
D—Gauge

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

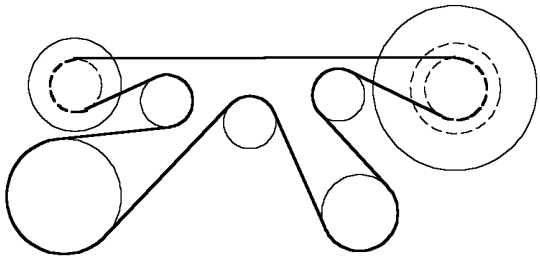
Loosen nut (A) and tighten the nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,00041C4-19-11APR16

Shoe, Fan, and Conveyor Auger Belt—Replacing



H116823—UN—07JAN16



H54683—UN—17MAY99

Belt Routing

A—Nuts
B—Cotter Pin
C—Belt

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

Remove right-hand front countershaft belt and cleaning fan variable drive belts.

Loosen nuts (A) and remove the cotter pin (B) from the tensioning rod.

Remove shoe, fan, and conveyor auger drive belt (C).

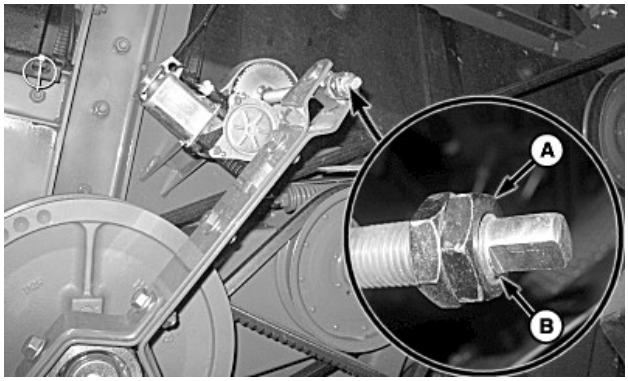
Install replacement belt and adjust the tensioner until washer is positioned between end of gauge and bottom of step.

Assemble tensioning rod and install the cotter pin.

Install front countershaft belt, cleaning fan variable drive belt and adjust tensioners until washer is positioned between end of gauge and bottom of step.

OUO6075,00041C5-19-11APR16

Cleaning Fan Actuator (Without Active Terrain Adjustment™)—Adjusting



H96946—UN—17JUN10

A—Nuts
B—End of Threads

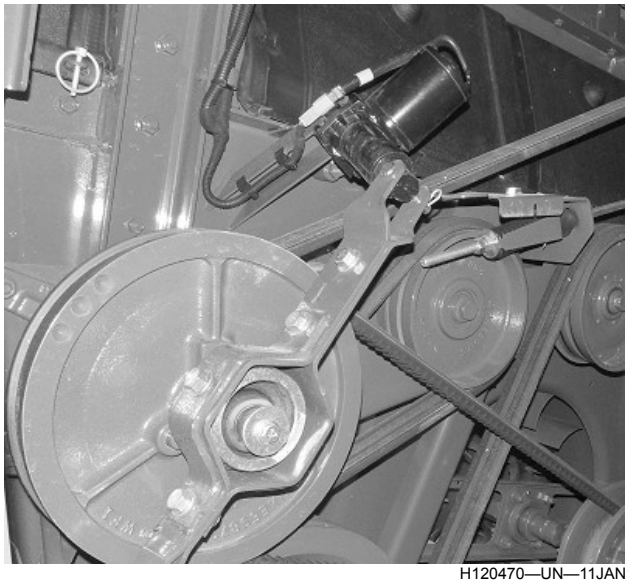
CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Cleaning fan minimum/maximum speed is controlled electronically. Stop nuts ensure drive protection, if there is an improper electronic speed setting. Nuts must be installed as shown.

Verify nuts (A) are jammed together at the end of the threads (B) as shown.

OUO6075,0004580-19-11JAN17

Cleaning Fan Actuator (Active Terrain Adjustment™)—Adjusting

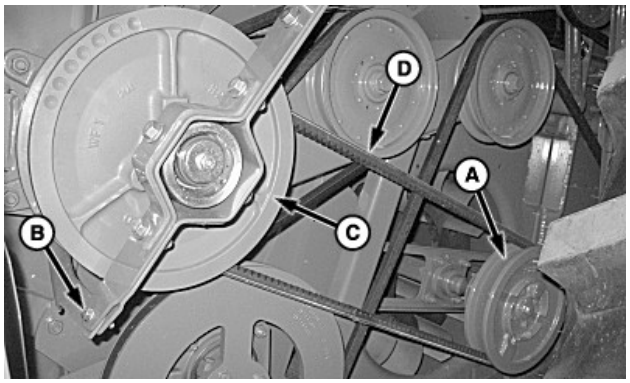


H120470—UN—11JAN17

Cleaning fan minimum/maximum speed is controlled electronically, there is no adjusting needed.

OUO6075,000457F-19-11JAN17

Cleaning Fan Belt (Without Active Terrain Adjustment™)—Replacing



H96945—UN—17JUN10

A—Bottom Sheave
B—Support Arms
C—Upper Sheave
D—Belt

Start machine, engage separator and operate fan at minimum speed.

Disengage separator, shut OFF engine and remove key.

CAUTION: Shut OFF engine, set park brake and remove key.

Wedge bottom sheave (A) to full open position.

Disconnect support arms (B) and swing arms away.

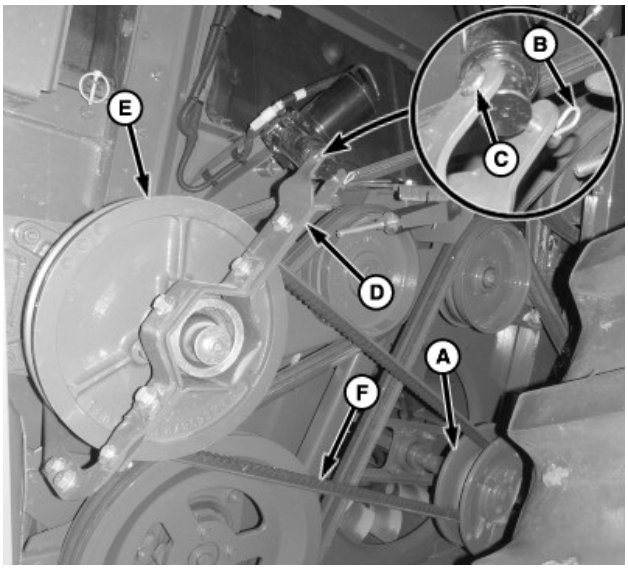
Remove upper sheave (C) and pull belt (D) over lower sheave.

Install replacement belt, remove the wedge, and connect the support arms.

Check adjustment of cleaning fan speed.

OUO6075,000457D-19-11JAN17

Cleaning Fan Belt (Active Terrain Adjustment™)—Replacing



H120469—UN—11JAN17

A—Bottom Sheave
B—Spring Pin
C—Pin
D—Support Arms
E—Upper Sheave
F—Belt

Start machine, engage separator and operate fan at minimum speed.

Disengage separator, shut OFF engine and remove key.

CAUTION: Shut OFF engine, set park brake and remove key.

Wedge bottom sheave (A) to full open position.

Remove spring pin (B) and pin (C) from the actuator motor.

Allow support arms (D) to swing out of the way.

Remove upper sheave (E) and pull belt (F) over lower sheave.

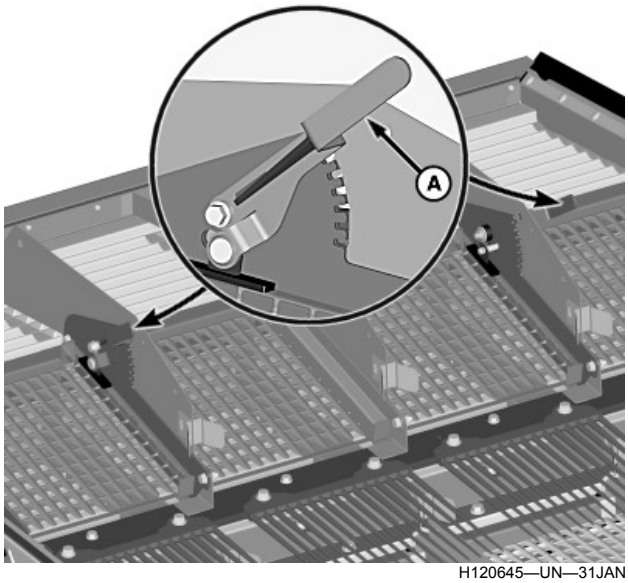
Install replacement belt, remove the wedge, and connect the support arms.

Align support arms with the actuator motor and retain with the previously removed pins.

Check adjustment of cleaning fan speed.

OUO6075,000457E-19-11JAN17

Adjustable Front Chaffer (If Equipped)



H120645—UN—31JAN17

A—Lever

CAUTION: Shut OFF engine, set park brake and remove key to help prevent accidental starting and personal injury.

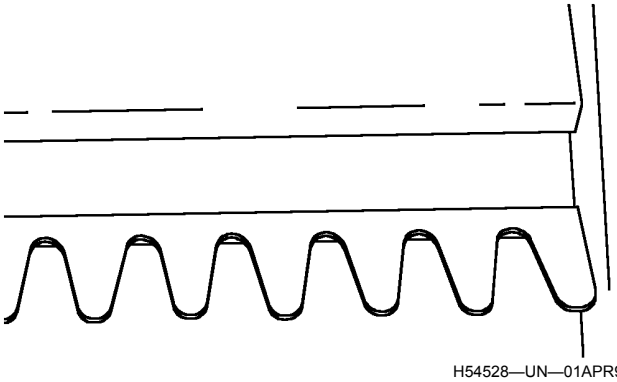
Remove separator covers to access the front chaffer.

Adjust front chaffer to desired position with lever (A).

NOTE: When the lever is fully raised, the front chaffer is fully closed. When the lever is fully lowered, the front chaffer is fully open. One notch is equal to approximately 4 mm (5/32 in).

OUO6075,00045AC-19-02FEB17

Fixed Front Chaffer



H54528—UN—01APR99

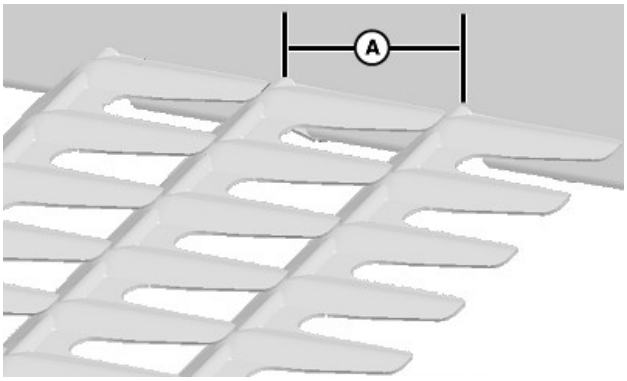
Fixed front chaffer is set at 24 mm (15/16 in).

Crop material that passes through the front chaffer is delivered to the chaffer for further cleaning.

OUO6075,00045AF-19-02FEB17

Chaffer and Sieve—Measuring

Louver Length



H89699—UN—21AUG07

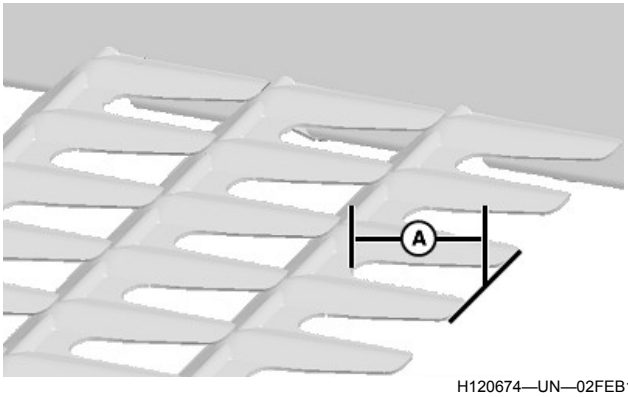
A—Wire-To-Wire

Machines can be equipped with two different types of chaffer and sieves.

- **Premium Corn** chaffer
  - **Chaffer** 41 mm (1-5/8 in)
- **Deep-tooth** chaffer and sieve.
  - **Chaffer** 41 mm (1-5/8 in)
  - **Sieve** 30 mm (1-3/16 in)
- **General-Purpose** chaffer and sieve.
  - **Chaffer** 30 mm (1-3/16 in)
  - **Sieve** 30 mm (1-3/16 in)

Proper way to measure chaffer and sieve louver length is from wire-to-wire (A) as shown. This can be used to determine if a deep-tooth or general-purpose chaffer or sieve is installed.

Sieve Louver Depth



H120674—UN—02FEB17

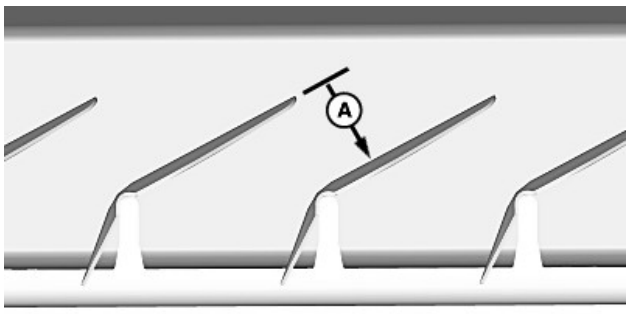
A—Louver Depth

Machines can be equipped with two different types of sieves.

- **Deep-tooth** sieve.
  - **Sieve** 22 mm (7/8 in)
- **General-Purpose** sieve.
  - **Sieve** 10 mm (3/8 in)

Proper way to measure sieve louver depth (A) is from bottom of louver to tip of louver as shown. This can be used to determine if a deep-tooth or general-purpose sieve is installed.

Louver Clearance



H92974—UN—03OCT08

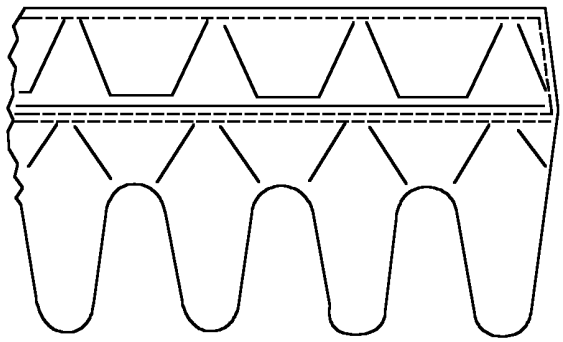
A—Louver-To-Louver

NOTE: Always close the chaffer/sieve louvers past the desired set point and then open the louvers to the desired set point to remove play.

Proper way to measure chaffer and sieve clearance is from louver-to-louver (A) as shown. This can be used to determine if clearance on chaffer and sieve matches with setting shown on armrest display.

OUO6075,0004978-19-22MAY18

General-Purpose Chaffer 30 mm (1-3/16 in)



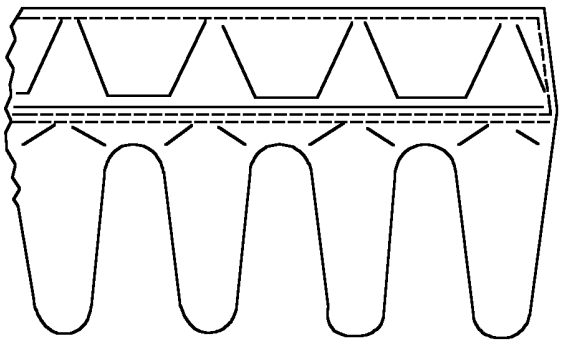
H54526—UN—01APR99

NOTE: Dimension shown is wire-to-wire spacing.

General-purpose chaffer is suitable for corn, soybeans, sorghum, small grains, oil seed crops, grass seed, and many specialty crops. It is recommended for dry conditions and is resistant to “stabbing” of corn tassels and soybean, sunflower, and sorghum stems.

OUO6075,00045B1-19-02FEB17

Deep-Tooth Chaffer 41 mm (1-5/8 in)



H58751—UN—13JUL99

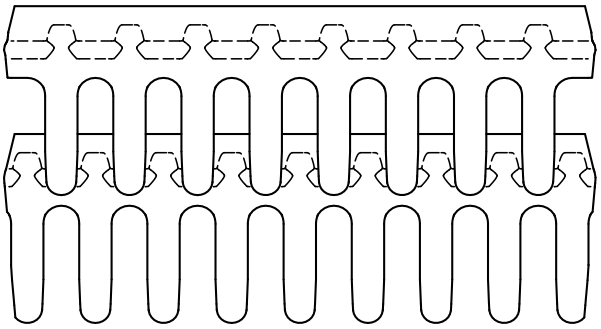
NOTE: Dimension shown is wire-to-wire spacing.

Not recommended for use in small grains, food corn, or popcorn.

Deep-tooth chaffer and deep-tooth sieve provide additional grain separation capacity in high moisture and high yield corn and high-capacity and clean grain sample in corn and soybeans.

OUO6075,000467C-19-20MAR17

Premium Corn Chaffer 41 mm (1-5/8 in)



H124256—UN—17MAY18

NOTE: Dimension shown is wire-to-wire spacing.

Recommended in high-yielding wet corn (+25%) conditions.

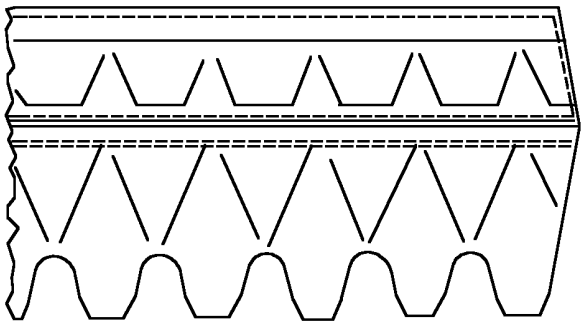
The Premium Corn chaffer has been designed for best performance when harvesting corn. The longer louver design featured on the chaffer provides a larger opening and increased grain-capturing capacity, especially in high-yielding corn or when harvesting on slopes where the larger louver opening of these elements can help to increase cleaning shoe capacity.

Other performance advantages of the Premium Corn chaffer are:

- Reduction of cleaning show losses from rear of machine.
- Reduction of tailings return volume for a higher-quality grain sample reduced cob particles in the grain tank for a cleaner grain sample.
- The Premium Corn design tends to have less material accumulation in wet corn conditions.
- Due to the curved tip of the louver, the Premium Corn chaffer is easier to clean and less likely to be damaged during cleaning. The offset of the louvers causes small plant stems to less likely fall through the element or get stuck in the element.

OUO6075,0004944-19-25MAY18

General Purpose Sieve 30 mm (1-3/16 in)



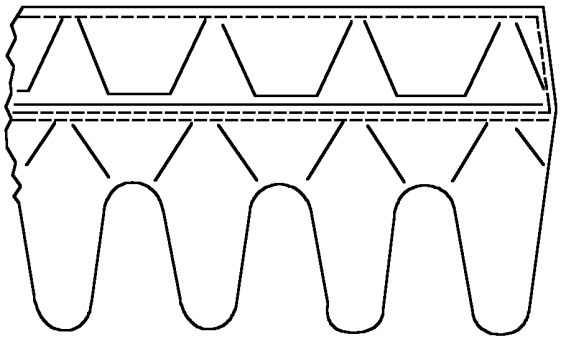
H54527—UN—01APR99

NOTE: Dimension shown is wire-to-wire spacing.

This sieve is suitable for all major crops and many specialty crops.

OUO6075,00045B3-19-03FEB17

Deep-Tooth Sieve 30 mm (1-3/16 in)



H54526—UN—01APR99

NOTE: Dimension shown is wire-to-wire spacing.

Not recommended for use in small grains, food corn, or popcorn.

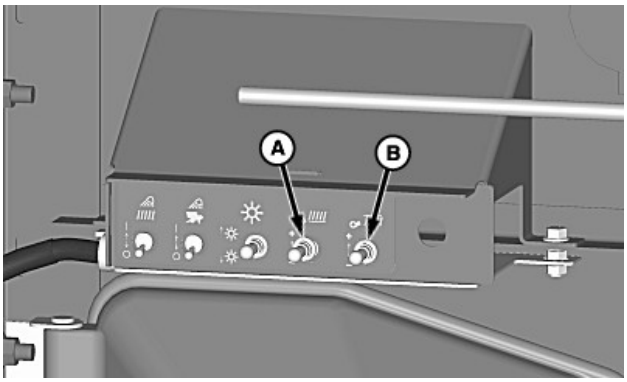
Deep-tooth sieve provides additional grain separation in high-moisture and high-yield corn.

This sieve together with the deep-tooth chaffer provides

high-capacity and clean grain samples in corn and soybeans.

OUO6075,000467D-19-20MAR17

Chaffer/Sieve Adjusting Switch



H97564—UN—14SEP10

A—Chaffer Adjust Switch
B—Sieve Adjust Switch

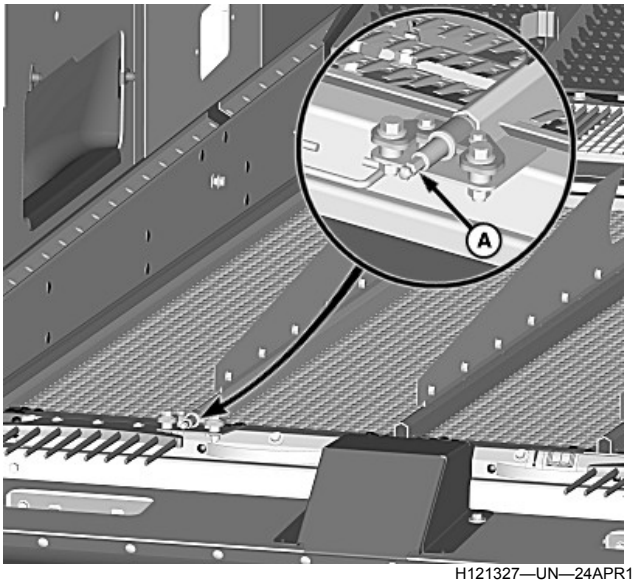
IMPORTANT: Close chaffer/sieve louvers completely to prevent louver damage while removing chaffer/sieve.

Chaffer adjust switch (A) and sieve adjust switch (B) are located on left-hand side of machine.

Chaffer adjust switch and sieve adjust switch allows operator to open or close chaffer and sieve to various positions.

OUO6075,00007DC-19-21MAR11

Dual Zone Adjust Rear Chaffer—Adjusting



H121327—UN—24APR17

A—Adjustment Linkage

CAUTION: Shut OFF engine, set park brake and remove key to help prevent accidental starting and personal injury.

Raise chopper/spreader assembly.

Turn adjustment linkage (A) clockwise to close the chaffer and counterclockwise to open the chaffer.

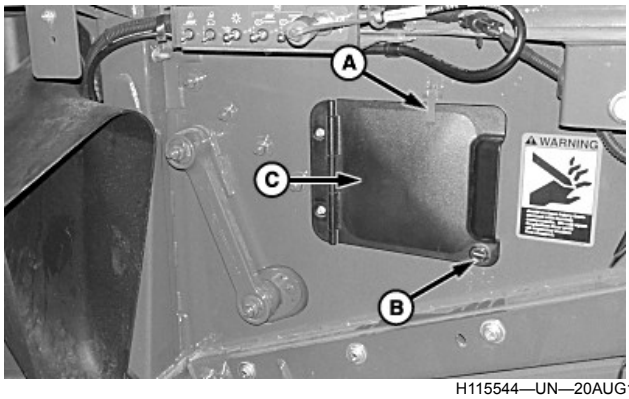
Close chaffer louvers past the desired set point and then open louvers to the desired set point to remove play.

NOTE: See Crop Settings section for recommended Dual Zone Adjust Rear Chaffer settings.

Measure distance between louvers and verify setting.

OUO6075,0004726-19-24APR17

Chaffer/Sieve Elements—Remove and Install



H115544—UN—20AUG15

A—Clip
B—Lock
C—Access Door

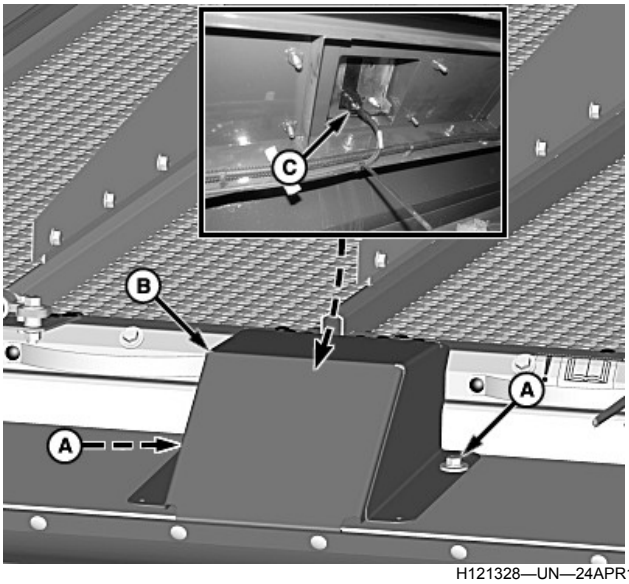
CAUTION: Shut OFF engine, set park brake and remove key to help prevent accidental starting and personal injury.

IMPORTANT: Avoid damage to chaffer/sieve elements. Completely close louvers before removing elements from machine.

NOTE: It is not necessary to remove the chopper or spreader (if equipped) to remove chaffer/sieve elements. Chopper or spreader must be fully raised.

Sieve removal is similar to chaffer removal.

1. Open clip (A) and turn lock (B) to open access door (C).

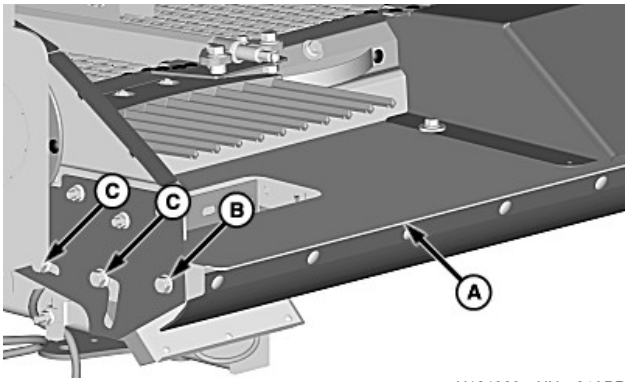


H121328—UN—24APR17

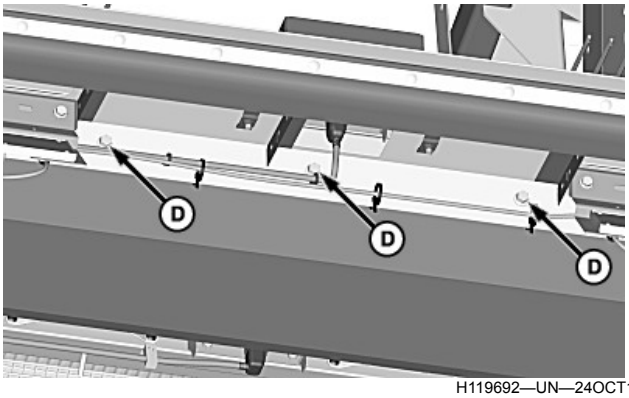
A—Cap Screws
B—Cover
C—Electrical Harness

NOTE: Chaffer motor does not need to be removed.

2. Remove cap screws (A) and cover (B).
3. Disconnect electrical harness (C) from the chaffer motor.



H121329—UN—24APR17

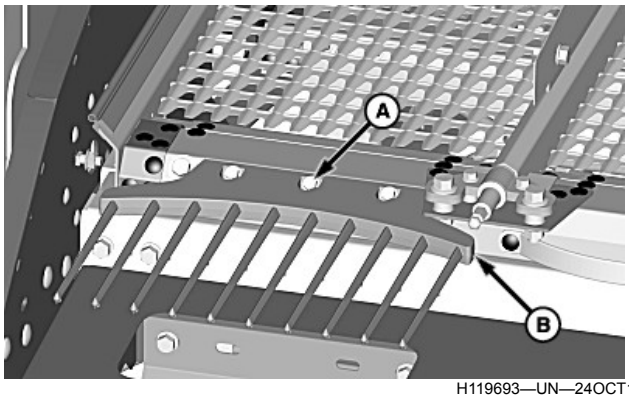


H119692—UN—24OCT16

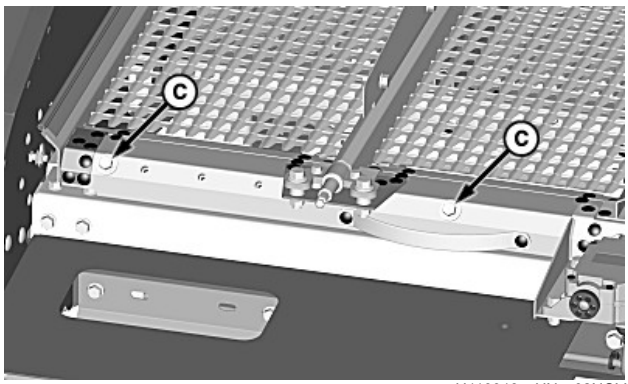
A—Tailboard
B—Cap Screw and Nut
C—Cap Screws
D—Cap Screws and Nuts

NOTE: Tailboard does not need to be removed.

4. **Lower Tailboard (A):**
   a. Remove cap screw and nut (B) from both sides of machine.
   b. Loosen cap screws (C) from both sides of machine.
   c. Remove cap screws and nuts (D) from underneath center of tailboard.
   d. Pull tailboard rearward and lower.



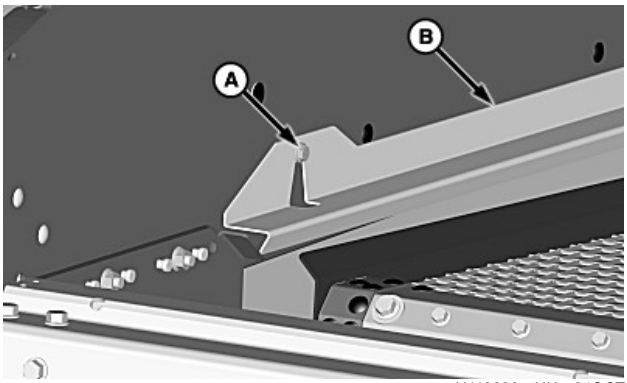
H119693—UN—24OCT16



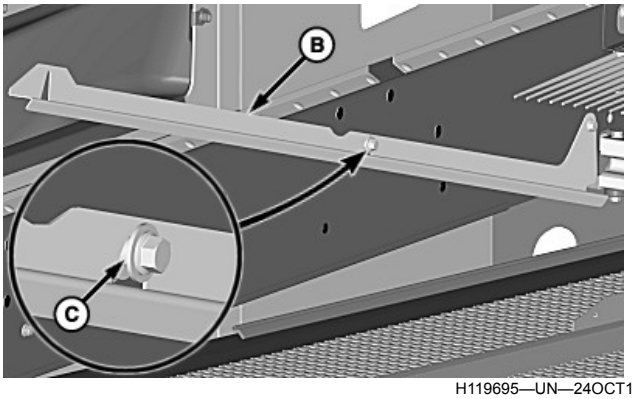
H119913—UN—02NOV16

A—Cap Screws
B—Plastic Fingers
C—Cap Screws (4 used)

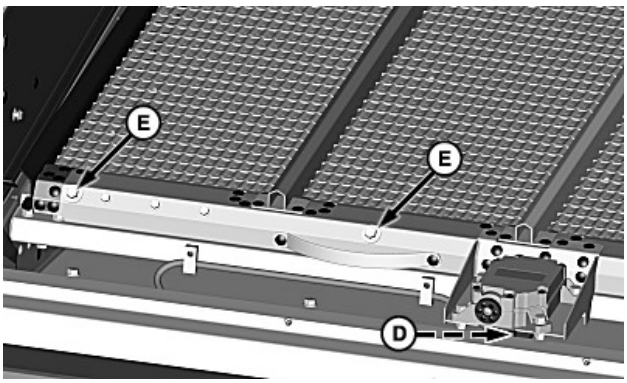
5. **Chaffer Removal:**
   a. Remove cap screws (A) and plastic fingers (B) from both sides of machine.
   b. Remove cap screws (C) from both sides of machine.
   c. Slide chaffer element through rear of machine.
   d. Inspect grain seals on chaffer element and repair or replace as needed.



H119696—UN—24OCT16



H119695—UN—24OCT16



H121020—UN—07MAR17

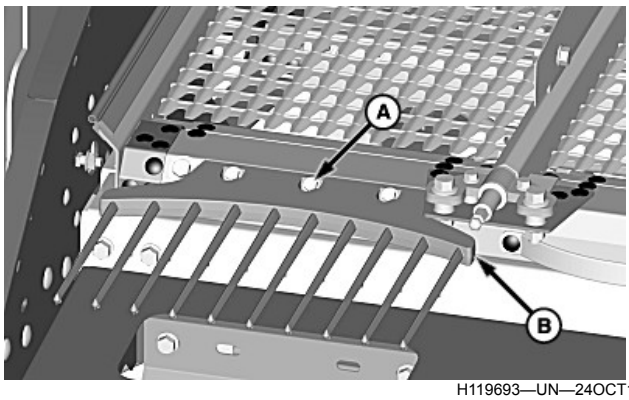
A—Cap Screw
B—Rail
C—Bushing
D—Electrical Harness
E—Cap Screws (4 used)

6. **Sieve Removal:**
   a. Loosen cap screw (A) on both sides of machine.
   b. Lift rail (B) and place over bushing (C).
   c. Disconnect electrical harness (D) from the sieve motor.
   d. Remove cap screws (E) from both sides of machine.
   e. Slide sieve element through rear of machine.
   f. Inspect grain seals on sieve element and repair or replace as needed.

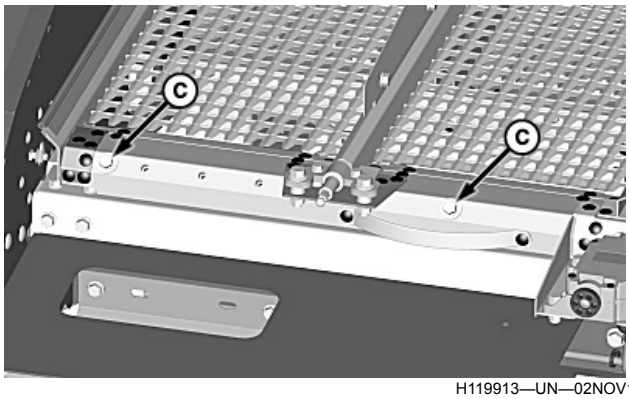
7. **Sieve Installation:**
   a. Install sieve element through rear of machine.
   b. Lower rails and install electrical harness.
   c. Tighten cap screws to specification.

Specification

Sieve Cap Screws—Torque	37 N·m (27 lb·ft)



H119693—UN—24OCT16



H119913—UN—02NOV16

A—Cap Screws
B—Plastic Fingers
C—Cap Screws (4 used)

8. **Chaffer Installation:**
   a. Install chaffer and install electrical harness.
   b. Tighten cap screws (C) to specification.

Specification

Chaffer Cap Screws—Torque	37 N·m (27 lb·ft)

   c. Install plastic fingers (B) on both sides of chaffer.
   d. Tighten cap screws (A) to specification.

Specification

Plastic Finger Cap Screws—Torque	8 N·m (71 lb·in)

9. Raise tailboard and install previously removed hardware.

10. Install previously removed cover and retain with cap screws.
11. Close access door and retain with lock and clip.

OUO6075,0004630-19-24APR17

Chaffer/Sieve/Return Pan Assemblies

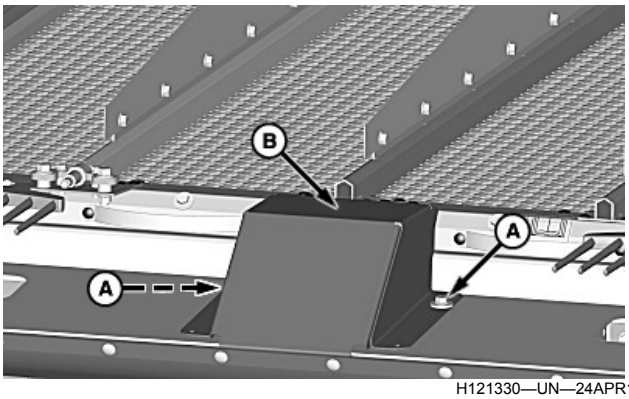
The following assemblies contain non-serviceable structural fasteners and are not repairable:

- Left and Right Chaffer Frame Sides
- Left and Right Sieve Frame Sides
- Return Pan Frame
- Chaffer Element
- Sieve Element

NOTE: The listed assemblies can be replaced through service parts. See your John Deere dealer for more information.

SS43267,0000623-19-11JUN15

Chaffer/Sieve Motor—Manual Adjust



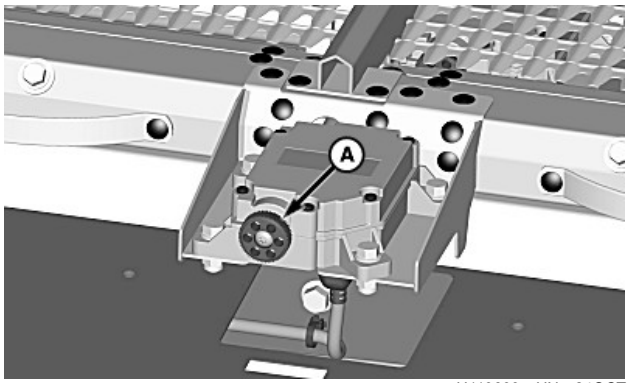
H121330—UN—24APR17

A—Cap Screws
B—Cover

CAUTION: Shut OFF engine, set park brake and remove key to help prevent accidental starting and personal injury.

NOTE: Same manual adjust procedure can be used on the chaffer/sieve motor.

1. Remove cap screws (A) and cover (B).



H119699—UN—24OCT16

A—Knob

IMPORTANT: To prevent adjusting motor damage, do not use a wrench on knob.

2. Use knob (A) to adjust motor. Turn knob clockwise to close and counterclockwise to open chaffer/sieve.

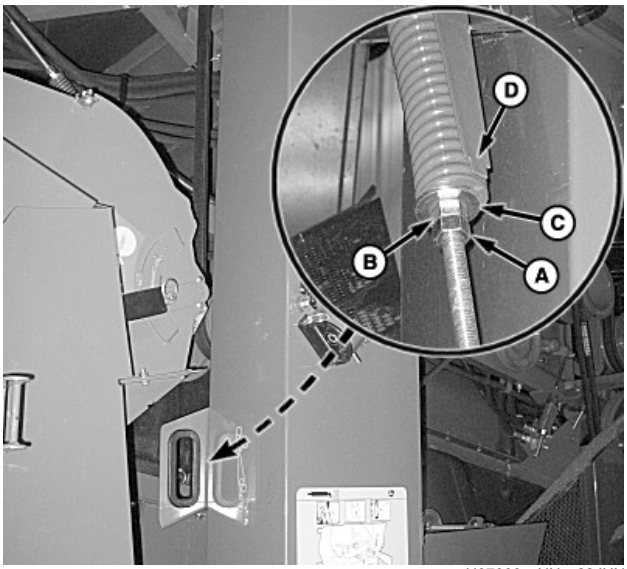
OUO6075,000467E-19-24APR17

Clean Grain Elevator Belt—Adjusting



H97127—UN—27OCT10

Style A



H97030—UN—22JUN10

Style B

A—Nut
B—Nut
C—Washer
D—Gauge

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nut (A) and tighten the nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

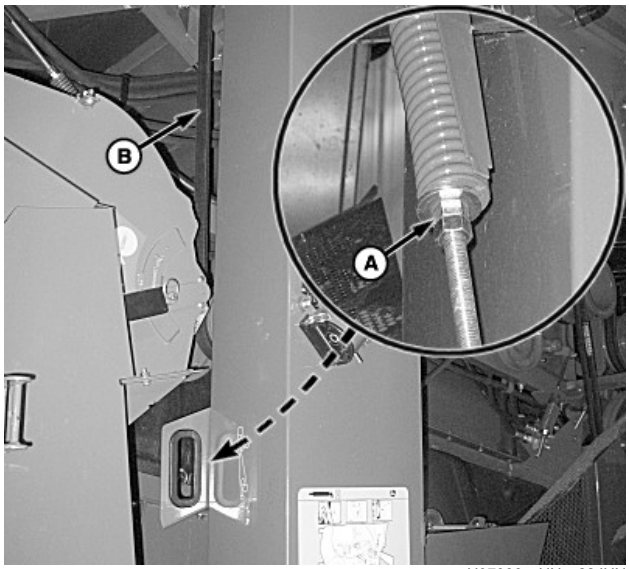
OUO6075,0004385-19-10OCT16

Clean Grain Elevator Belt—Replacing



H97128—UN—27OCT10

Style A



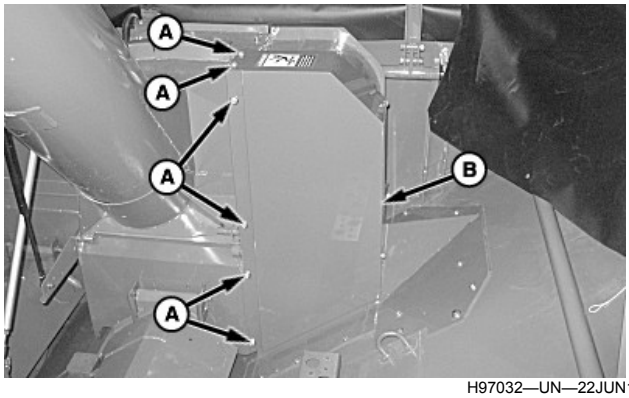
H97033—UN—22JUN10

Style B

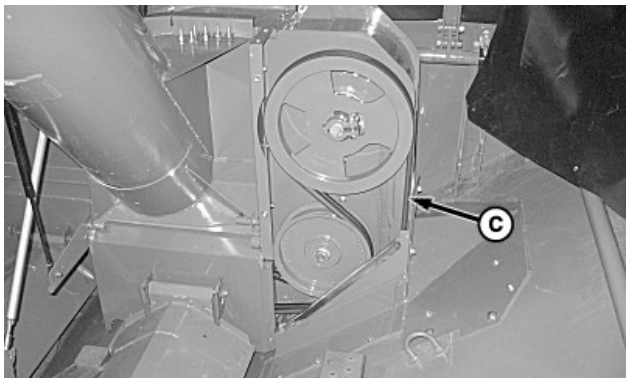
A—Nuts
B—Clean Grain Elevator Belt

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nuts (A) to relieve tension on the clean grain elevator belt (B).



H97032—UN—22JUN10



H97034—UN—22JUN10

A—Cap Screws
B—Cover
C—Clean Grain Elevator Belt

Remove cap screws (A) and cover (B).

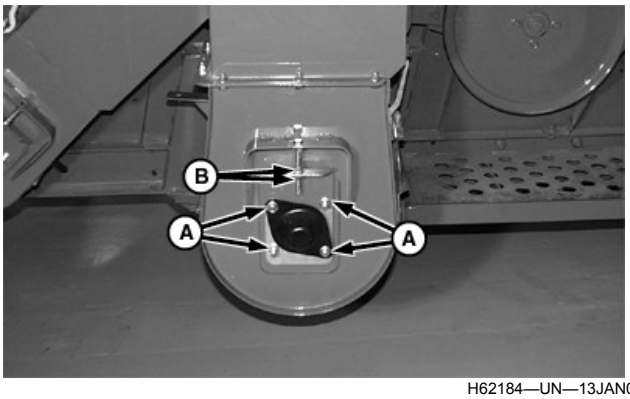
Remove clean grain elevator belt (C) from pulleys.

Install replacement belt and adjust the tensioner until washer is positioned between end of gauge and bottom of step. Tighten lock nut.

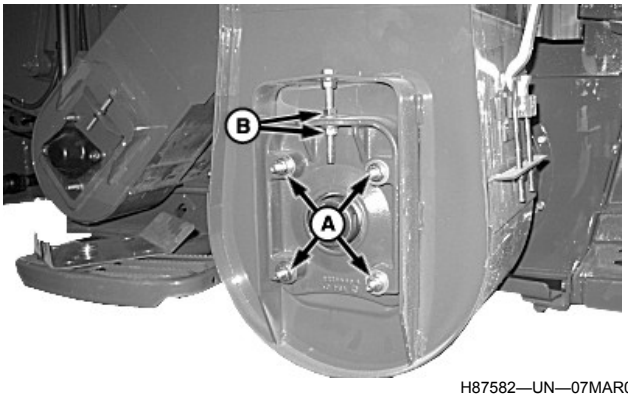
Install previously removed cover and retain with cap screws.

OUO6075,0004384-19-10OCT16

Clean Grain Elevator Conveyor Chain—Adjusting



H62184—UN—13JAN00



H87582—UN—07MAR07

A—Nuts (4 Used)
B—Nuts

Release latch and open lower door.

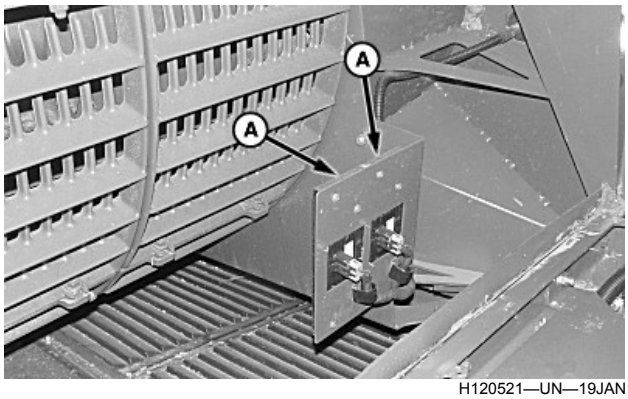
Remove nuts from bearing cover (if equipped).

Loosen nuts (A) and use nuts (B) to adjust chain. Move bearing carrier downward to tighten chain.

Elevator chain is adjusted properly when lower end of chain can be slid side-to-side on sprocket but cannot be pulled away from sprocket. When chain loosens up to 6 mm (1/4 in.) from sprocket, readjust chain. After a period of use, it may be necessary to remove a half link to adjust chain correctly.

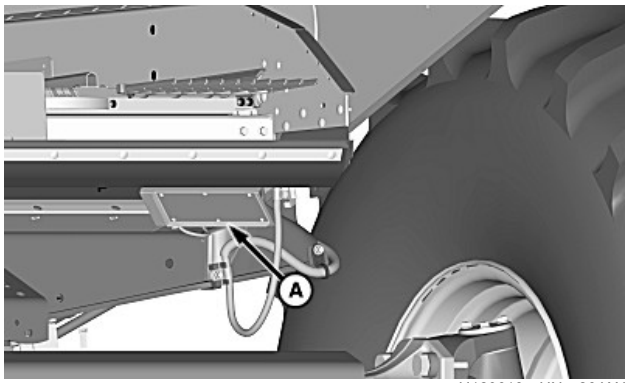
OUO6075,0001048-19-27FEB12

VisionTrak™ Operational Checks



H120521—UN—19JAN17

Separator Sensors



H120618—UN—26JAN17

Right-Hand Shoe Sensor

A—Sensors

NOTE: Two people are required to perform this operational check. One person must remain seated in the operator's seat, while another person taps on the sensors.

Separator sensors are on the left-hand side of the machine underneath the separator covers.

Shoe sensors are at the rear of the machine on the tailboard.

1. Turn key switch to RUN position, but do not start machine.
2. Engage header switch.

NOTE: MUST be in a crop that was previously calibrated. Grain loss calibration value MUST be less than 50.

3. Tap on sensors (A) several times. Person watching VisionTrak™ display should see movement on the shoe loss and separator loss indicators.

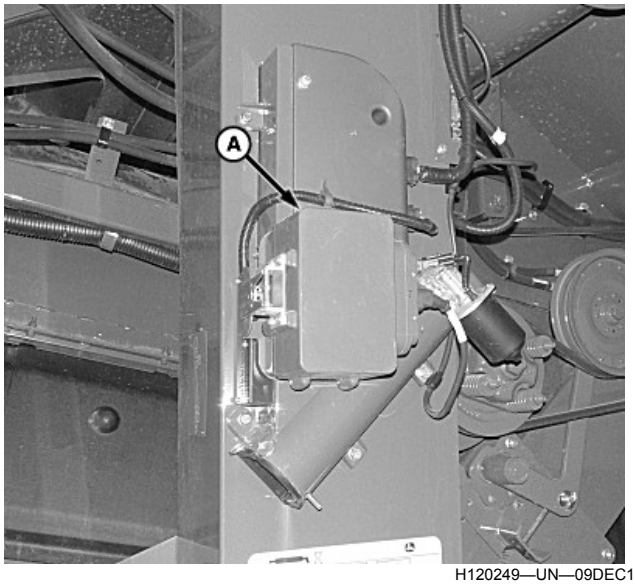
NOTE: Return grain loss calibration value to original value or perform another crop calibration.

VisionTrak is a trademark of Deere & Company

4. Disengage header switch and turn key switch OFF.
5. If VisionTrak™ does not work after these checks, see your John Deere dealer for further information.

OUO6075,000447B-19-26JAN17

ActiveVision™ Clean Grain Elevator Camera (If Equipped)



H120249—UN—09DEC16

A—ActiveVision™ Clean Grain Elevator Camera

CAUTION: Shut OFF engine, set park brake and remove key before servicing or removing camera.

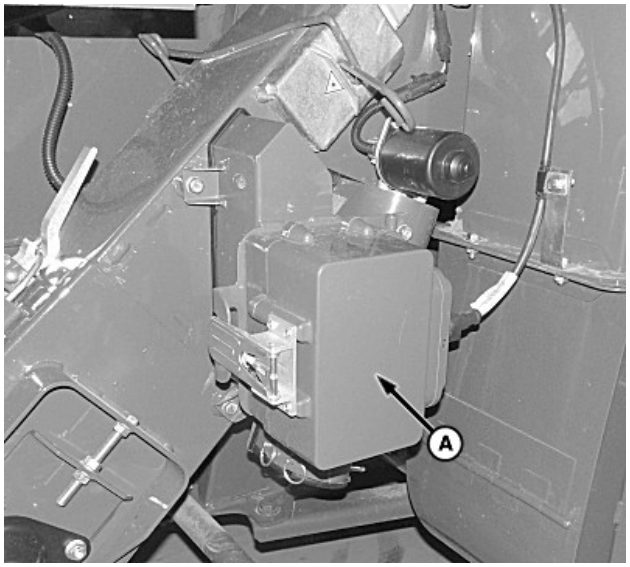
NOTE: Lens debris indicator in the software alerts operator when the camera lens needs to be cleaned as the system functionality may be reduced.

Cleaning frequency varies depending on a number of factors including operating conditions, weather, and crop conditions. Clean camera lens using a soft, moistened cloth.

Open latch and clean the ActiveVision™ clean grain elevator camera (A).

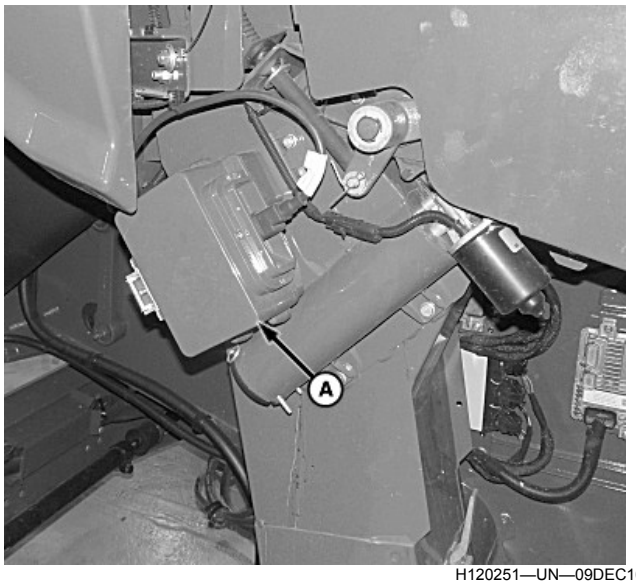
OUO6075,0004566-19-11JAN17

ActiveVision™ Tailings System Camera (If Equipped)



H120250—UN—09DEC16

ActiveVision™ Tailings Elevator Camera (Style A)



H120251—UN—09DEC16

ActiveVision™ Tailings Elevator Camera (Style B)

A—ActiveVision™ Tailings System Camera

CAUTION: Shut OFF engine, set park brake and remove key before servicing or removing camera.

NOTE: Lens debris indicator in the software alerts operator when the camera lens needs to be cleaned as the system functionality may be reduced.

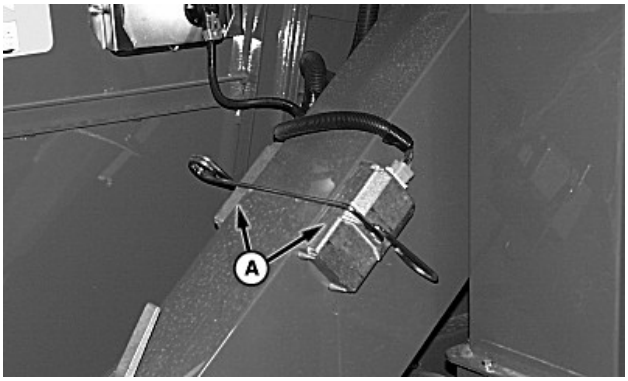
Cleaning frequency varies depending on a number of factors including operating conditions, weather, and crop conditions. Clean camera lens using a soft, moistened cloth.

ActiveVision is a trademark of Deere & Company

Open latch and clean the ActiveVision™ tailings system camera (A).

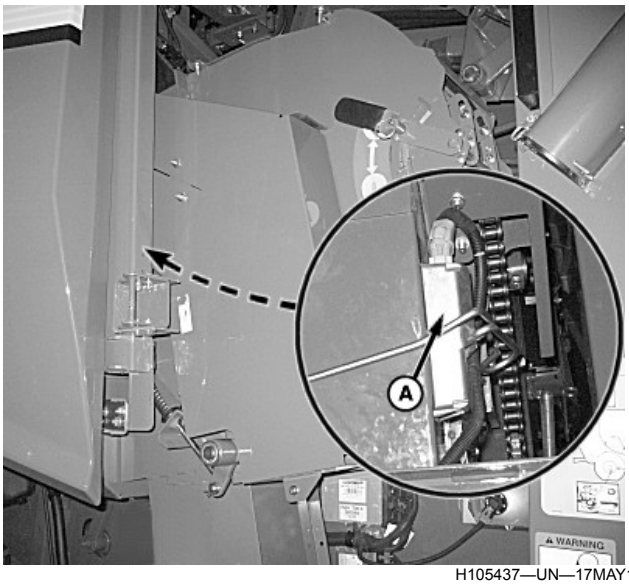
OUO6075,0004567-19-24JAN17

Tailings System Elevator Sensors



H70551—UN—02JAN02

Style A



H105437—UN—17MAY12

Style B

A—Tailings Sensors

If tailings sensor display consistently reads full (all bars lit) when not harvesting or empty (no bars lit) when harvesting, it may indicate that the sensor lens is coated with material or seal under lens has allowed dust to enter.

CAUTION: Tailings sensor is a Class 1 laser product and emits laser radiation when powered. When servicing or removing tailings sensors, use caution and do not view beam directly.

Key switch must be turned OFF and tailings sensor must be unplugged before servicing or removing sensors.

DO NOT operate sensor with lens removed. Accessible laser emission when the lens is in place:

- 850 nm
- 500 nsec pulse width
- ≤ 500 Hz rep rate
- < 90 nJ per pulse
- 43 uW average power
- Class 1 levels (Eye Safe)

Accessible laser emission levels if sensor was operated with lens removed are:

- 850 nm
- 500 nsec pulse width
- ≤ 500 Hz rep rate
- < 380 nJ per pulse
- 188 uW average power
- Class 3R Levels (small potential for eye injury)

1. Remove tailings sensors (A) to inspect and clean lenses if needed.
2. If lenses are clean, remove and check for dust. If dust is found, clean area and reassemble the lens onto the unit making sure that gasket is sealing.
3. Verify that lens is retained with all previously removed screws prior to installation.

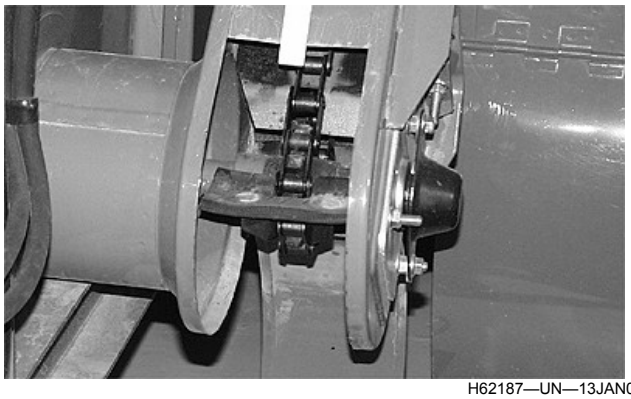
CAUTION: Failure to install plastic cover prior to replacement of sensors on elevator may cause malfunction, incorrect harvest readings, or sensor damage, and could allow for potentially hazardous eye exposure when sensor is removed.

4. Install sensor and test system.
5. If display continues to read full or empty, contact your John Deere dealer.

OUO6075,0004568-19-12DEC16

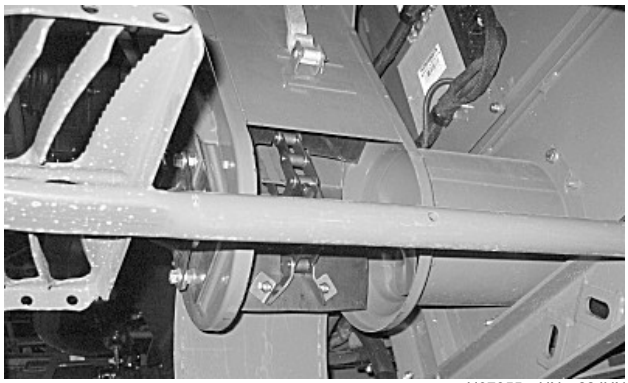
ActiveVision is a trademark of Deere & Company

Tailings System Elevator Paddles



H62187—UN—13JAN00

Style A



H97055—UN—22JUN10

Style B

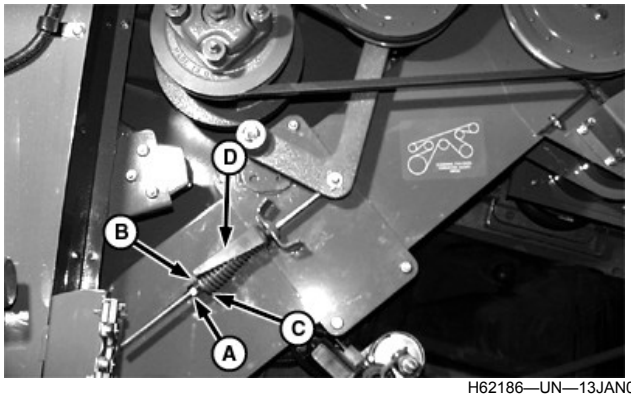
CAUTION: Shut OFF engine, set park brake and remove key.

Check elevator chain occasionally for worn or missing paddles.

In muddy conditions, one steel paddle may be installed in the elevator chain to act as a wiper.

OUO6075,0004382-19-10OCT16

Tailings Elevator Drive Belt—Adjusting (Style A)



H62186—UN—13JAN00

A—Lock Nut
B—Nut
C—Washer
D—Gauge

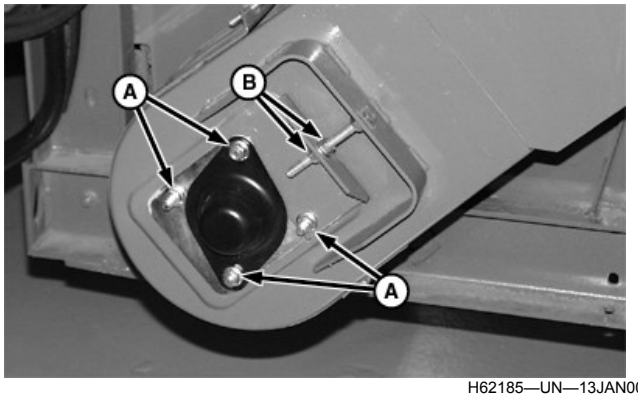
CAUTION: Shut OFF engine, set park brake and remove key.

Loosen lock nut (A).

Tighten nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

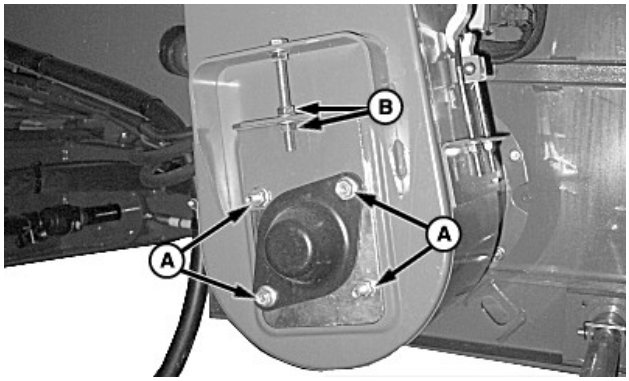
OUO6075,0004381-19-26JAN17

Tailings System Elevator Paddle Chain—Adjusting



H62185—UN—13JAN00

Style A



H97059—UN—22JUN10

Style B

A—Nuts (4 Used)
B—Nuts

CAUTION: Shut OFF engine, set park brake and remove key.

Release latch and open lower door.

Remove nuts from bearing cover.

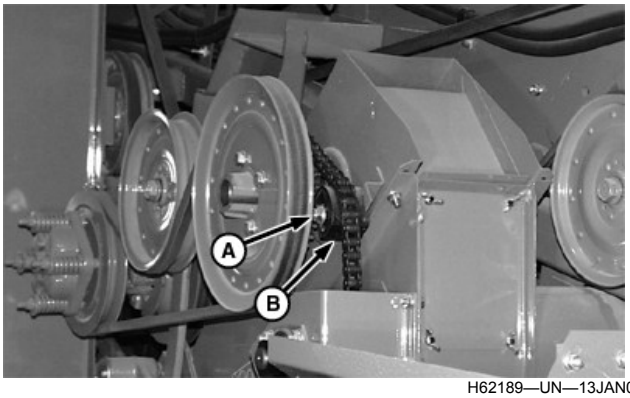
Loosen nuts (A) and use nuts (B) to adjust chain. Move the bearing carrier downward to tighten the chain.

Elevator chain is adjusted properly when lower end of

chain can be slid side-to-side on sprocket but cannot be pulled away from sprocket. When chain loosens up to 6 mm (1/4 in) from sprocket, readjust chain. After a period of use, it may be necessary to remove a half link to adjust tailings elevator chain correctly.

OUO6075,0004380-19-10OCT16

Upper Tailings Auger Drive Chain—Adjusting (Style A)



H62189—UN—13JAN00

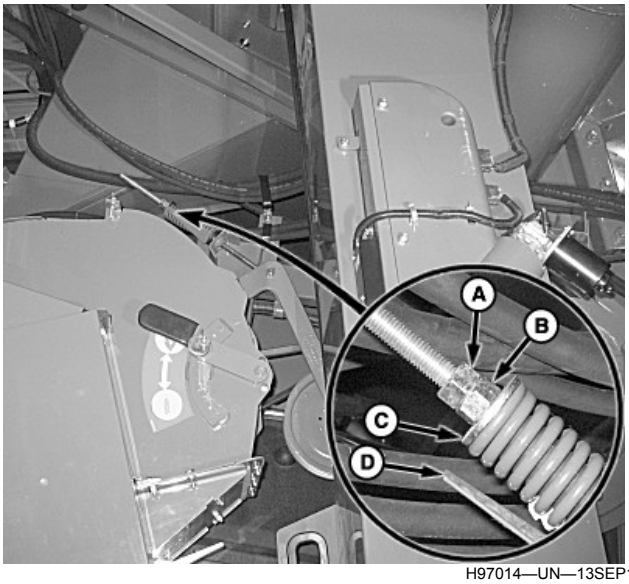
A—Cap Screw
B—Block

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen cap screw (A) and adjust block (B) to tighten chain. Tighten cap screw when chain is tight.

OUO6075,000437F-19-26JAN17

Tailings System Drive Belt—Adjusting (Style B)



H97014—UN—13SEP10

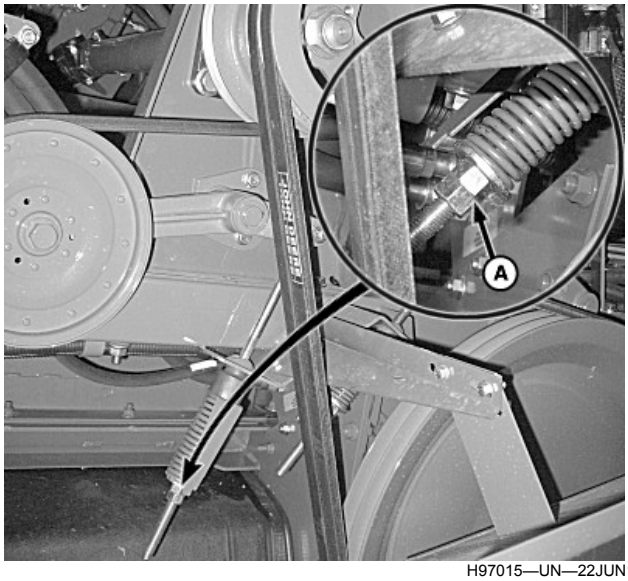
A—Nut
B—Nut
C—Washer
D—Gauge

CAUTION: Shut OFF engine, set park brake and remove key.

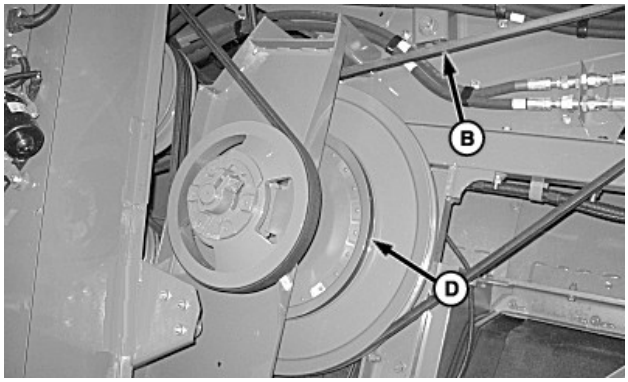
Loosen nut (A) and tighten the nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,0004377-19-26JAN17

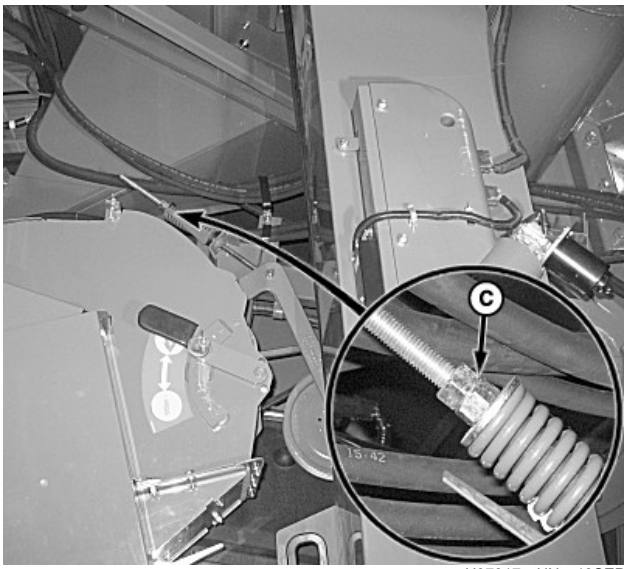
Tailings System Drive Belt—Replacing (Style B)



H97015—UN—22JUN10



H97016—UN—22JUN10



H97017—UN—13SEP10

A—Nuts
B—Rear Countershaft Belt
C—Nuts
D—Tailings System Drive Belt

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nuts (A) and remove rear countershaft belt (B) from pulley.

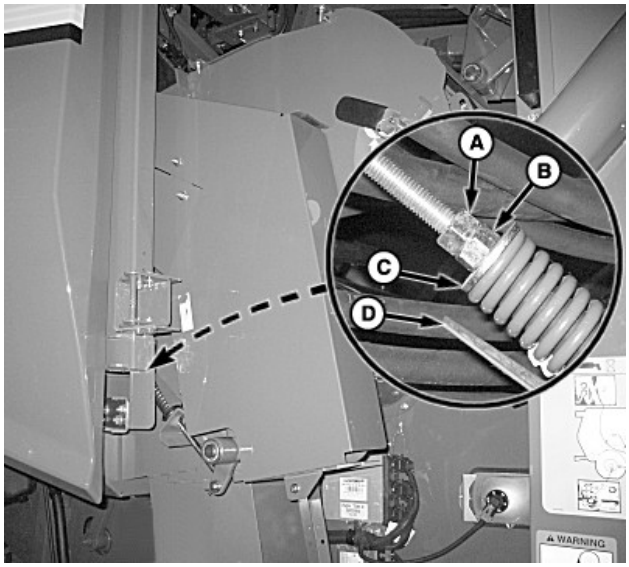
Loosen nuts (C) and remove tailings system drive belt (D).

Install replacement belt and adjust the tensioner until washer is positioned between end of gauge and bottom of step.

Install rear countershaft belt onto pulley and adjust the tensioner until washer is positioned between end of gauge and bottom of step.

OUO6075,0004378-19-26JAN17

Tailings System Drive Chain—Adjusting (Style B)



H105438—UN—17MAY12

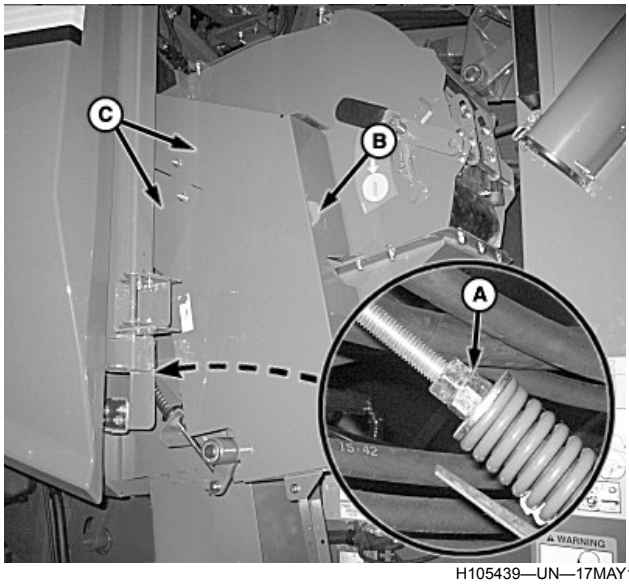
A—Nut
B—Nut
C—Washer
D—Gauge

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nut (A) and tighten the nut (B) until the washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,0004379-19-26JAN17

Tailings System Drive Chain—Replacing (Style B)



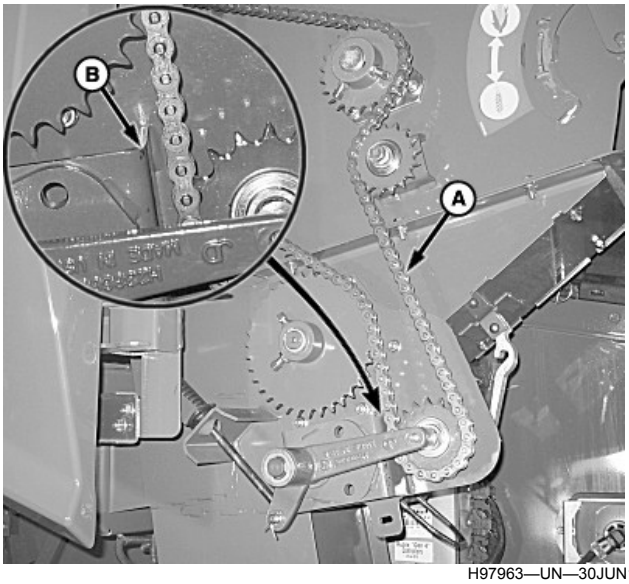
H105439—UN—17MAY12

A—Nuts
B—Shield

C—Shields

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nuts (A) and remove shields (B and C).



H97963—UN—30JUN11

A—Chain
B—Bracket

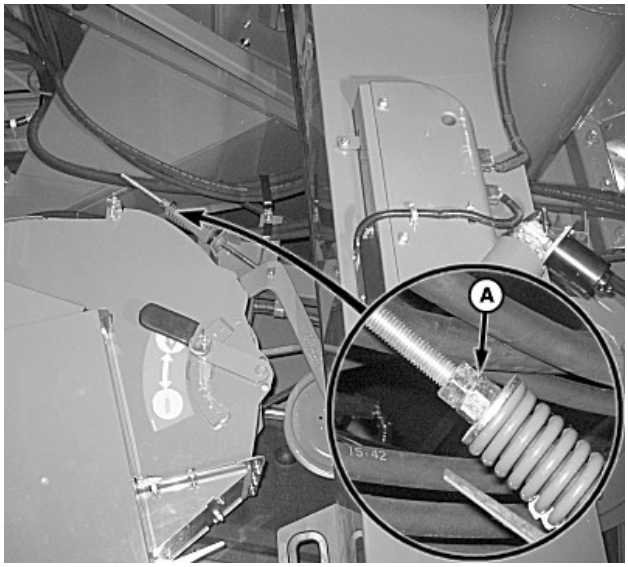
Replace if fully tensioned chain (A) contacts or is less than 3 mm (1/8 in) away from bracket (B).

Install replacement chain and adjust the tensioner until washer is positioned between end of gauge and bottom of step.

Install previously removed shields.

OUO6075,000437A-19-26JAN17

Tailings System Wear Strips and Rasp Bars —Remove and Install (Style B)

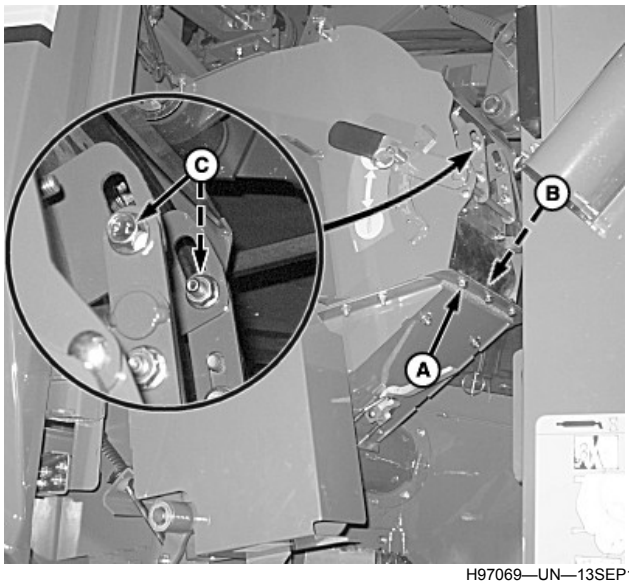


H97073—UN—13SEP10

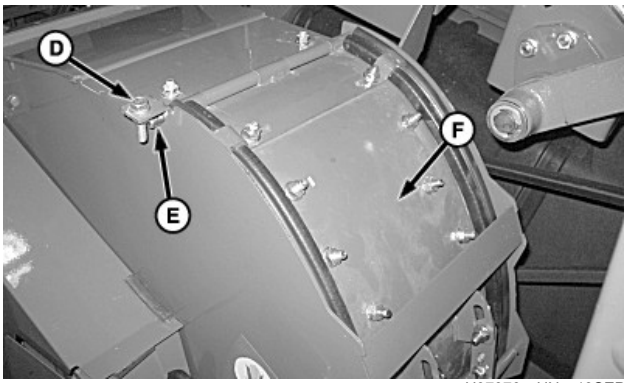
A—Nuts

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nuts (A) to relieve belt tension from the tailings system drive belt.



H97069—UN—13SEP10

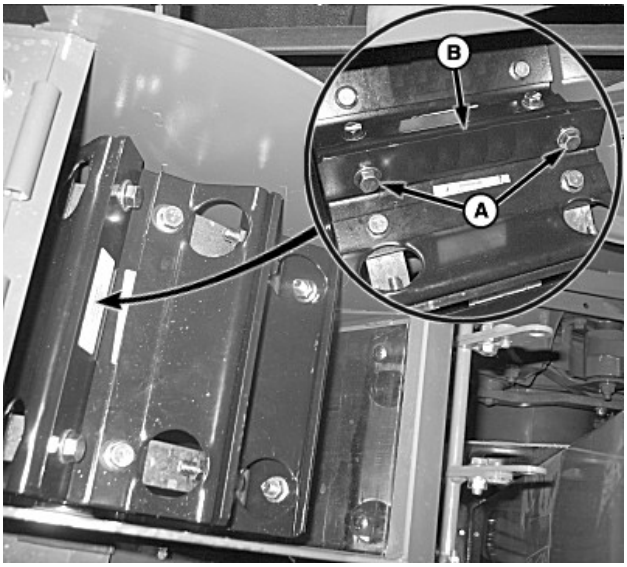


H97070—UN—13SEP10

A—Cap Screws (3 Used)
B—Strap
C—Shoulder Bolts (2 Used)
D—Cap Screw
E—Rod
F—Access Cover

Remove cap screws (A) and strap (B).

Remove shoulder bolts (C), cap screw (D), and rod (E) from access cover (F).



H97072—UN—13SEP10

A—Cap Screws and Nuts
B—Wear Strips

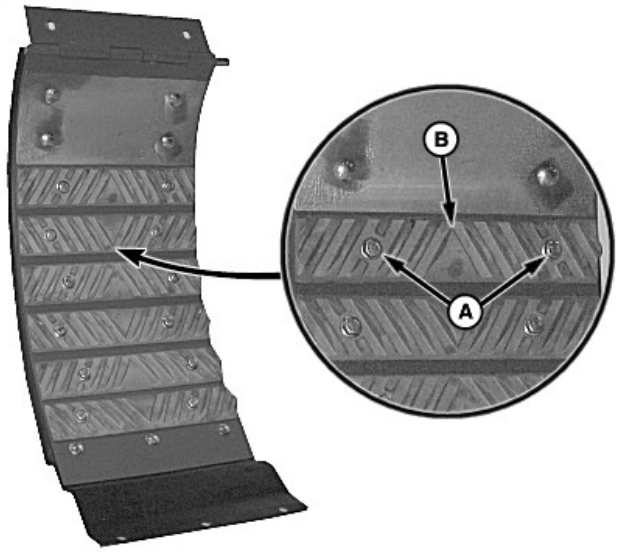
Remove cap screws and nuts (A) from wear strips.

Remove and replace wear strips as needed.

Tighten wear strip cap screws to specification.

Specification

Wear Strip Cap Screws—Torque . . . . . 70 N·m (52 lb·ft)



H97084—UN—23JUN10

A—Cap Screws and Nuts
B—Rasp Bar

Remove cap screws and nuts (A) from rasp bar (B).

Remove and replace rasp bars as needed.

Tighten rasp bar cap screws to specification.

Specification

Rasp Bar Cap Screws—Torque. . . . . 37 N·m ± 7 N·m (27 lb·ft ± 5 lb·ft)

NOTE: Verify that seals on access cover remain in place when installing onto the tailings system.

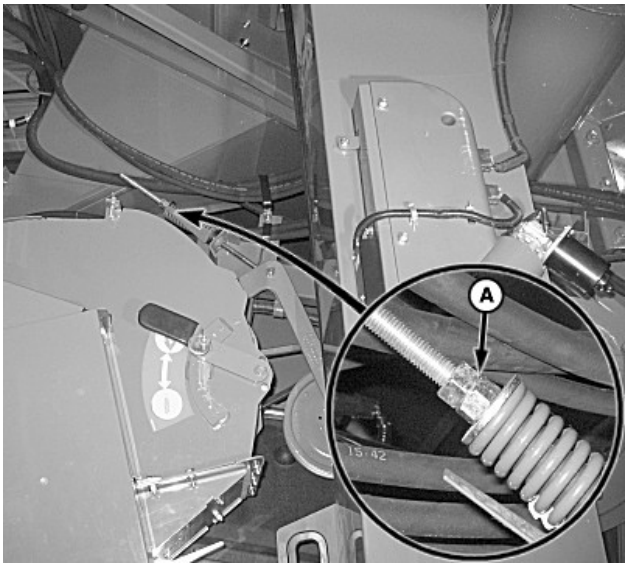
Install access cover and retain with rod and cap screw.

Install shoulder bolts and align rubber piece with holes and install strap and cap screws.

Adjust tailings system drive belt tensioner until washer is positioned between end of gauge and bottom of step.

OUO6075,000437B-19-26JAN17

Tailings System Wear Strips and Rasp Bars —Adjusting (Style B)

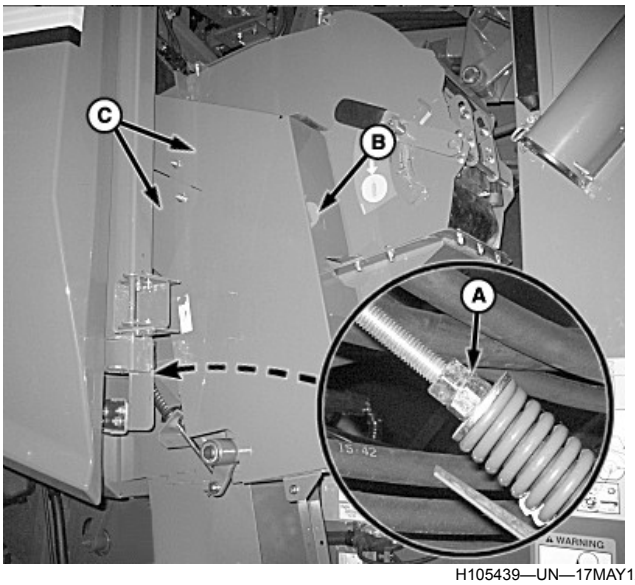


H97073—UN—13SEP10

A—Nuts

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nuts (A) to relieve belt tension from the tailings system drive belt.

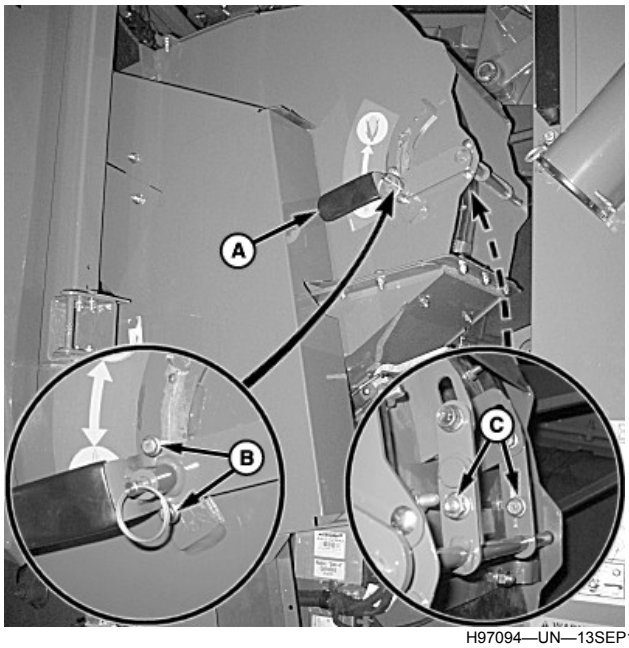


H105439—UN—17MAY12

A—Nuts
B—Shield
C—Shields

Loosen nuts (A) and remove shields (B and C).

Remove drive chain to allow tailings system to turn freely.



H97094—UN—13SEP10

A—Adjustment Handle
B—Cap Screws, M6
C—Cap Screws and Nuts

NOTE: Moving adjustment handle downward zeros the position between wear strips and rasp bars.

Move adjustment handle (A) downward as shown and install cap screws (B) in existing holes.

Loosen cap screws and nuts (C).

Slowly adjust access door while rotating beater until ”ticking” is heard.

Slowly back off until ”ticking” stops and tighten cap screws and nuts.

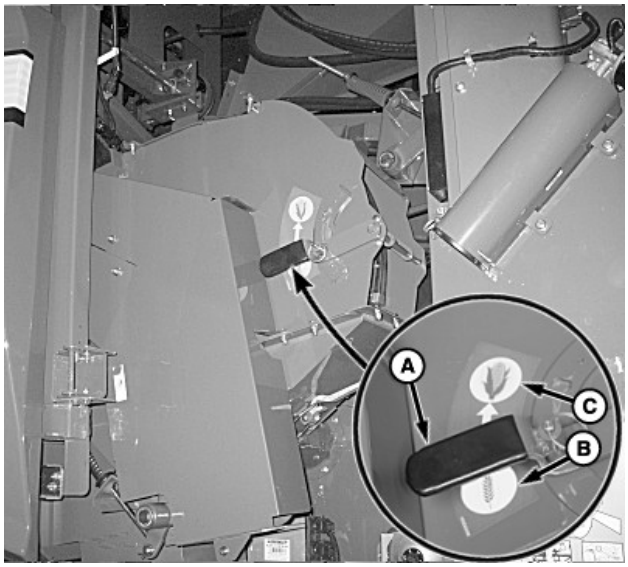
Adjust tailings system drive belt tensioner until washer is positioned between end of gauge and bottom of step.

Install chain and adjust the tensioner until washer is positioned between end of gauge and bottom of step.

Install previously removed shields.

OUO6075,000437C-19-26JAN17

Tailings System Return Concave—Adjusting (Style B)



H97103—UN—13SEP10

A—Crop Selection Handle
B—Small Grain Position
C—Large Grain Position

CAUTION: Shut OFF engine, set park brake and remove key.

IMPORTANT: To prevent personal injury or machine damage do not move crop selection handle when machine is running.

NOTE: See Crop Settings section for recommended tailings system concave position settings.

Small Grain Position (B):

Crop selection handle (A) should be in ”LOWER” position, when harvesting small grain crops.

Large Grain Position (C):

Crop selection handle (A) should be in ”UPPER” position, when harvesting large crops or damage-sensitive crops.

OUO6075,000467F-19-20MAR17

Tailings System Auger Cleanout Door (Style B)



H97095—UN—13SEP10

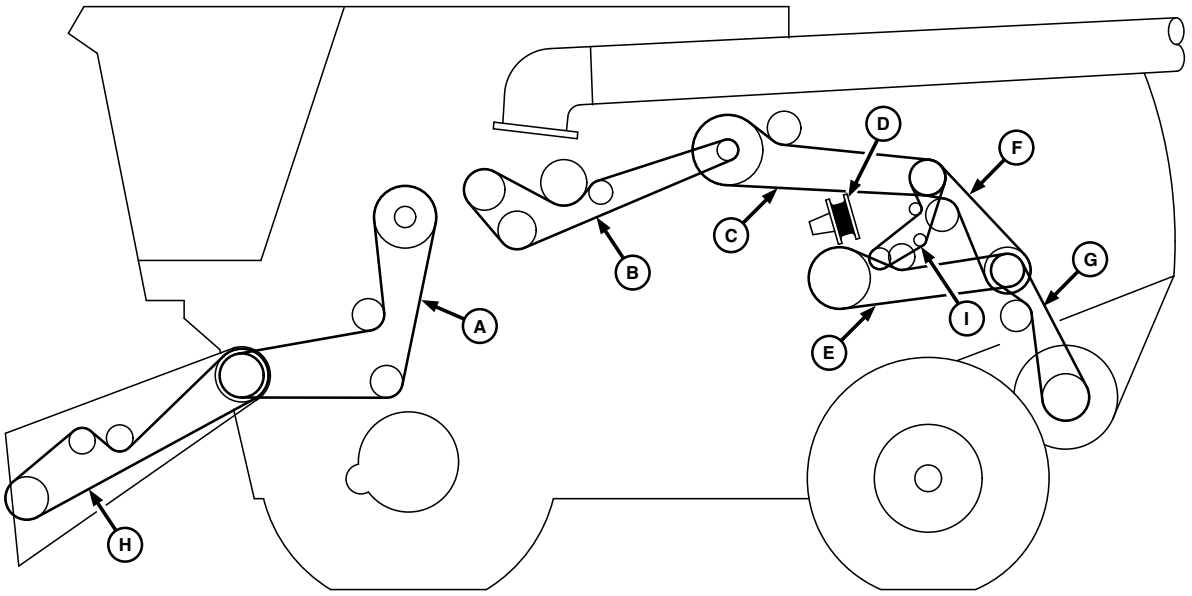
A—Handle

CAUTION: Shut OFF engine, set park brake and remove key.

Use handle (A) to open tailings system auger cleanout door and remove material as needed.

OUO6075,000437E-19-26JAN17

Drive Belts—Left-Hand



H107018—UN—25FEB13

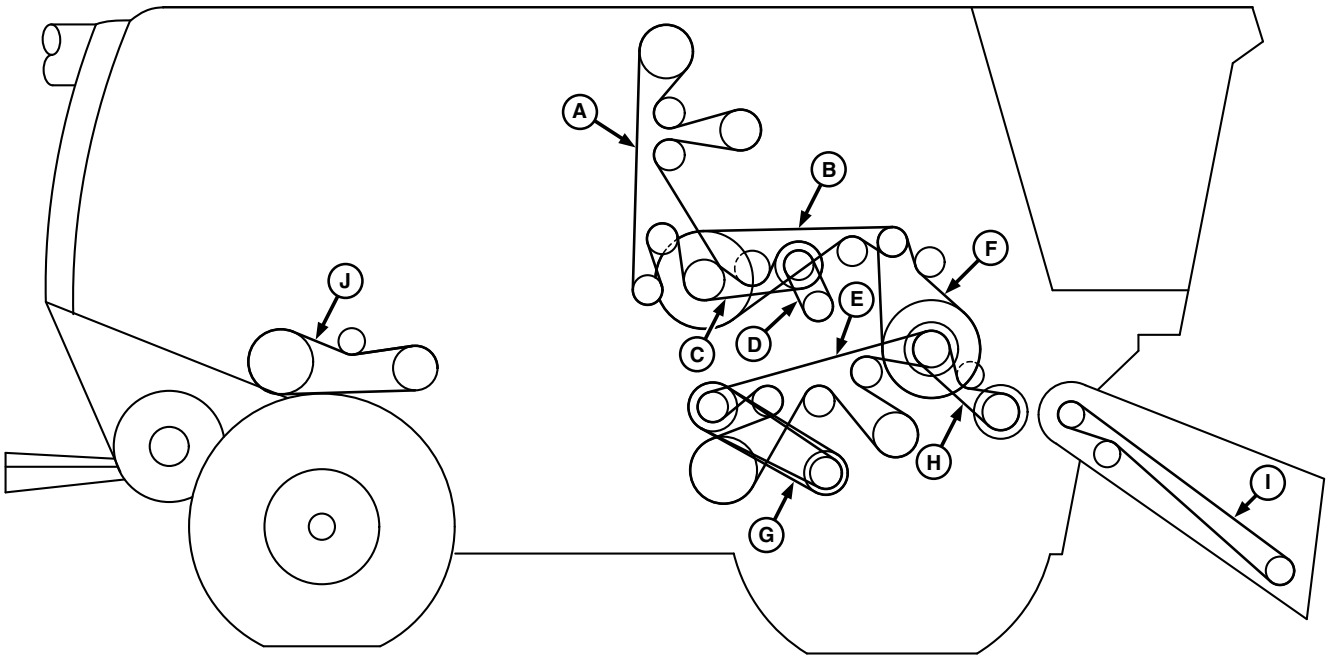
Style A			
A	Header and Reel Pump Standard/High Capacity Belt	F	Countershaft, Discharge Beater and Chopper Belt
B	Unloading Auger System, #60 Roller Chain	G	Straw Chopper Belts
C	Unloading Auger System Belt	H	Fixed Speed Feeder House Drive Belt Feeder House Variable Drive Standard/High Capacity Belt
D	Separator Variable Drive Belt	I	Engine Debris Management Belt (Final Tier 4/Stage V)
E	Discharge Beater Belt (Non-Rice Machine) Discharge Beater Belts (Rice Machine)		

Style B	
A	Header and Reel Pump Standard/High Capacity Belt or CommandTouch™ Multi-Speed Feeder House Drive Belt (Option)
B	Unloading Auger System, #60 Roller Chain (10 572 L (300 bu) Grain Tank) Unloading Auger System, #80 Roller Chain (14 096 L (400 bu) Grain Tank)
C	Unloading Auger System Belt
D	Separator Variable Drive Belt
E	Discharge Beater Belts
F	Countershaft, Discharge Beater and Chopper Belt
G	Straw Chopper Belts
H	Fixed Speed Feeder House Drive Belt Feeder House Variable Drive Standard/High Capacity Belt or CommandTouch™ Multi-Speed Feeder House Drive Belt (Option)
I	Engine Debris Management Belt (Final Tier 4/Stage V)

CommandTouch is a trademark of Deere & Company

OUO6075,00047E1-19-13NOV17

Drive Belts—Right-Hand (Style A)

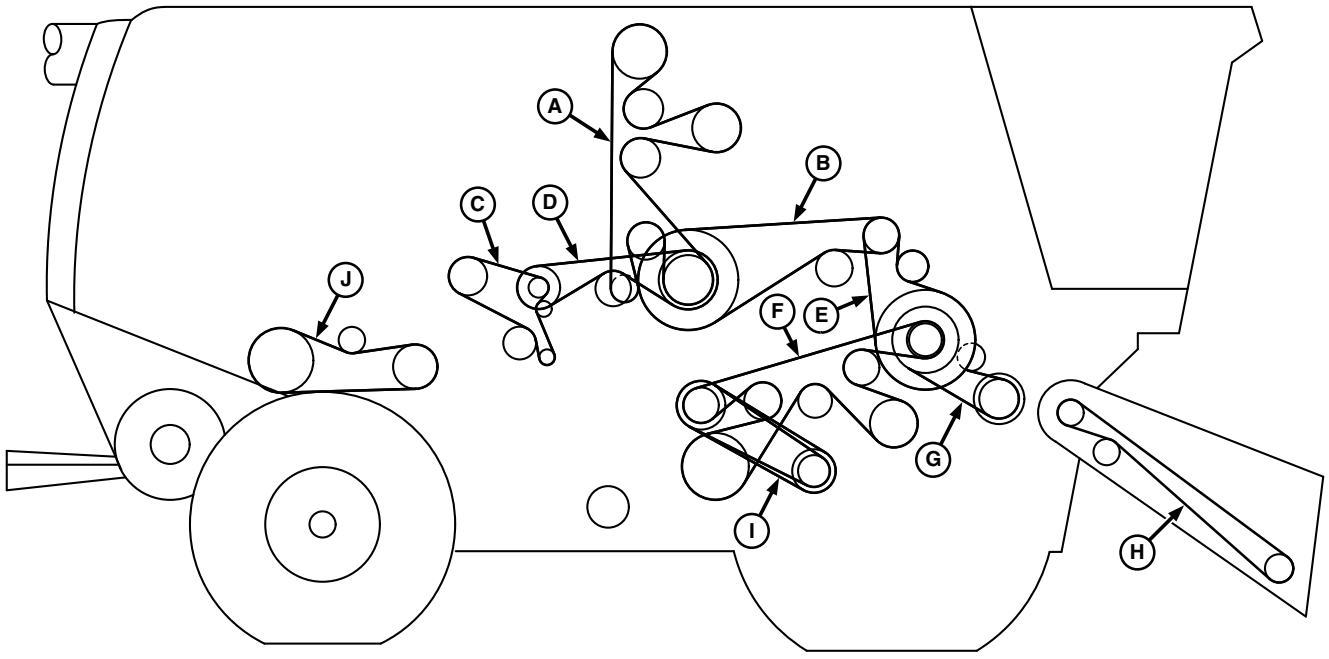


H99322—UN—10DEC10

A—Clean Grain Elevator Belt
B—Rear Right-Hand Jackshaft Belt
C—Tailings Auger and Elevator Belt
D—Tailings Return Auger, #50 Chain
E—Shoe Fan and Conveyor Augers Belt
F—Front Right-Hand Jackshaft Belt
G—Cleaning Fan Variable Belt
H—Feed Accelerator Belt
I—Feeder Conveyor (Chain), #60 Chain
J—Overshot Beater Drive Belt (If Equipped)

OUO6075,0004375-19-26JAN17

Drive Belts—Right-Hand (Style B)



H96904—UN—16JUN10

A—Clean Grain Elevator Belt
B—Rear Right-Hand Jackshaft Belt
C—Tailings Elevator/Upper Auger #60 Roller Chain
D—Tailings System Drive Belt

E—Front Right-Hand Jackshaft Belt
F—Shoe Fan and Conveyor Augers Belt
G—Feed Accelerator Belt
H—Feeder Conveyor (Chain), #60 Chain
I—Cleaning Fan Variable Belt
J—Overshot Beater Drive Belt (Optional)

OUO6075,0004374-19-26JAN17

Feed Accelerator—Unplugging

NOTE: Use Feed Accelerator unplugging tool if available. See your John Deere dealer for further information.

1. Disengage separator.
2. Shut OFF engine, set park brake and remove key.
3. Shift separator drive gear case to low speed.
4. Remove belt tension from feed accelerator drive by pushing lever up and out from the notch in the bracket.
5. Open stone trap door and clean. Leave stone trap door open.
6. Sound horn, start engine, and set engine speed at mid idle.
7. Engage separator to clean out material, discharge beater, and chopper.
8. Disengage separator.
9. Shut OFF engine, set park brake and remove key.
10. Remove feed accelerator access covers and remove crop material from accelerator area. After clearing plug, rotate accelerator one revolution to be sure that it is free.
11. Engage feed accelerator drive by pushing lever up and into the notch in the bracket.
12. Sound horn, start engine, and set engine speed at mid idle.
13. Engage separator. If the plug does not clear, disengage separator and repeat steps 9—13.
14. Shut OFF engine, set park brake and remove key.
15. Close stone trap door and set concave spacing back to original setting. Replace feed accelerator access covers.
16. If initially operating in high speed, shift separator drive gear case and adjust separator speed back to initial setting and resume operation.

OUO6075,00046EC-19-29MAR17

Separator—Unplugging

Disengage separator.

NOTE: Note concave setting and adjust concave to wide open position.

Shut OFF engine, set park brake and remove key.

Shift separator drive gear case to neutral position.

Remove belt tension from feed accelerator drive by pushing lever up and out from the notch in the bracket.

Open stone trap door and clean. Close stone trap door.

Sound horn, start engine, and set engine speed at mid idle.

Engage separator to clean out material from the discharge beater.

Adjust separator variable belt to mid range.

Disengage separator.

Shut OFF engine, set park brake and remove key.

Shift separator drive gear case to low speed.

Sound horn, start engine, and set engine speed at mid idle.

IMPORTANT: To prevent damage to main engine gear case and wet clutch, do not engage separator clutch with a plugged separator more than three times in a period of 3 minutes.

Wait for 1 minute between plugged separator engagements while idling machine.

Engage separator to clear the separator. If the plug does not clear, disengage the separator.

If the separator cannot be power unplugged, it is necessary to remove concaves and grates and remove some straw by hand. After clearing plug, replace concaves and grates.

After separator is unplugged, set concave spacing back to original setting.

Engage feed accelerator drive by pushing lever up and into the notch in the bracket.

If originally operating in high speed, shift separator gear case to high-speed position. Adjust separator speed back to original setting and resume operation.

OUO6075,0004939-19-12APR18

Discharge Beater—Unplugging

NOTE: Use Discharge Beater unplugging tool if available. See your John Deere dealer for further information.

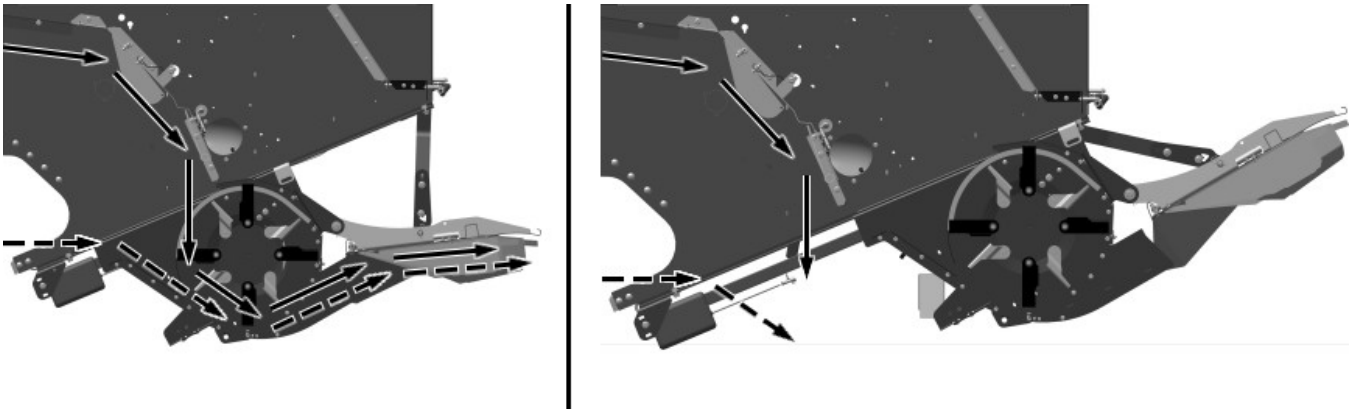
1. Disengage header and separator.

NOTE: Note concave setting and adjust concave to wide open position.

2. Shut OFF engine, set park brake and remove key.
3. Raise straw chopper.
4. Remove covers to access discharge beater area and remove crop material from beater area.
5. Remove shields over the discharge beater drive pulley, so the pulley can be rotated by hand.
6. After clearing plug, rotate beater one revolution to be sure that it is free.
7. Shift separator drive gear case to neutral position.
8. Remove belt tension from feed accelerator drive by pushing lever up and out from the notch in the bracket.
9. Sound horn, start engine, and set engine speed at mid idle.
10. Engage separator to clean out material from discharge beater and chopper.
11. Disengage separator.
12. Shut OFF engine, set park brake and remove key.
13. Shift separator drive gear case to original speed.
14. Engage feed accelerator drive by pushing lever up and into the notch in the bracket.
15. Install all shields previously removed.
16. Lower straw chopper to operating position.
17. Sound horn, start engine, and set engine speed at mid idle.
18. Engage separator.
19. Set concave spacing back to initial setting and resume operation.

OUO6075,00046EE-19-29MAR17

Residue Material Handling Option (Intermediate/Deluxe Residue)



H118032—UN—05APR16

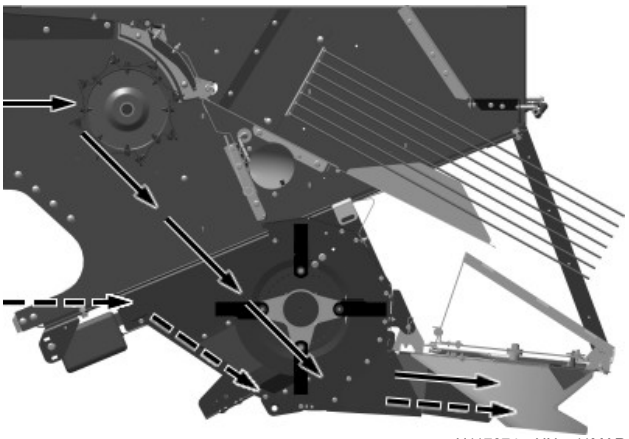
Chopping Intermediate/Deluxe / Windrowing Intermediate/Deluxe

NOTE: Solid arrows represent flow of straw. Dashed arrows represent flow of chaff.

Straw and chaff get laid down together in a windrow.

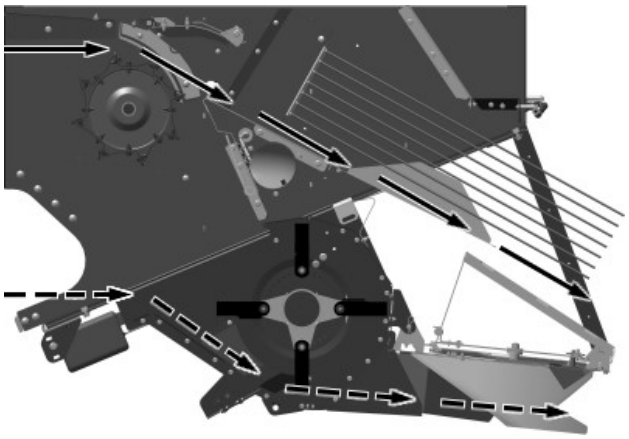
OUO6075,00049BC-19-31MAY18

Residue Material Handling Option (Premium Residue)



H117674—UN—11MAR16

Chopping Premium



H118033—UN—05APR16

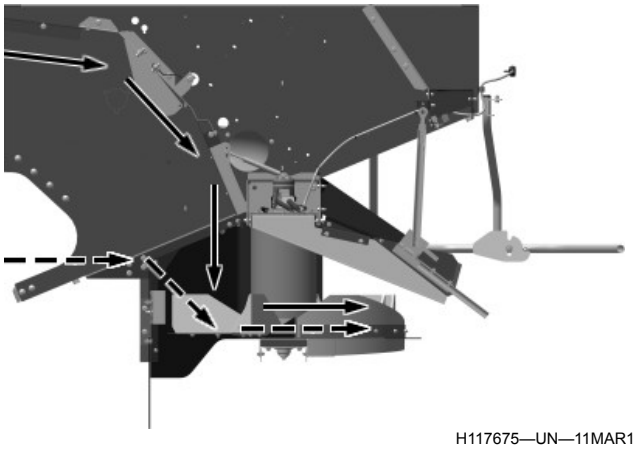
Windrowing Premium

NOTE: Solid arrows represent flow of straw. Dashed arrows represent flow of chaff.

Drop straw and spread chaff capability.

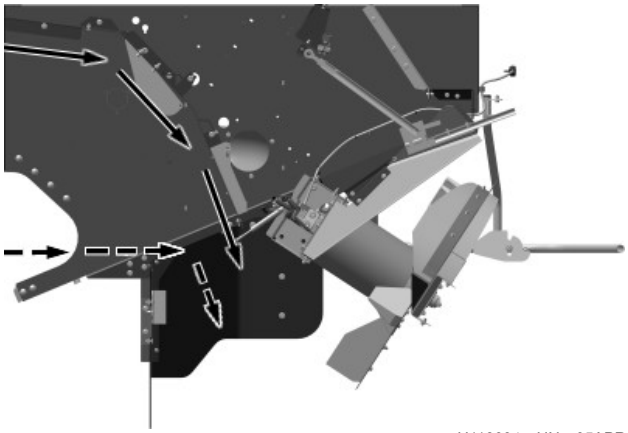
OUO6075,00049BD-19-31MAY18

Residue Material Handling Option (Straw Spreader)



H117675—UN—11MAR16

Spreader Position



H118034—UN—05APR16

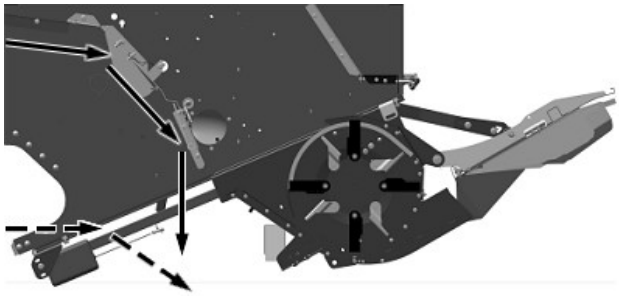
Windrow Position

NOTE: Solid arrows represent flow of straw. Dashed arrows represent flow of chaff.

Material is spread and not chopped

OUO6075,00049BE-19-31MAY18

General Windrowing Information (Intermediate/Deluxe Residue)



H124423—UN—30MAY18

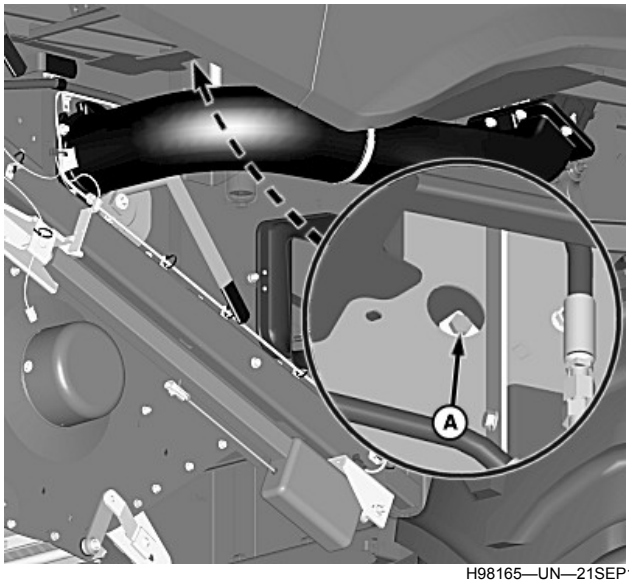
Windrowing Intermediate/Deluxe

NOTE: Solid arrows represent flow of straw. Dashed arrows represent flow of chaff.

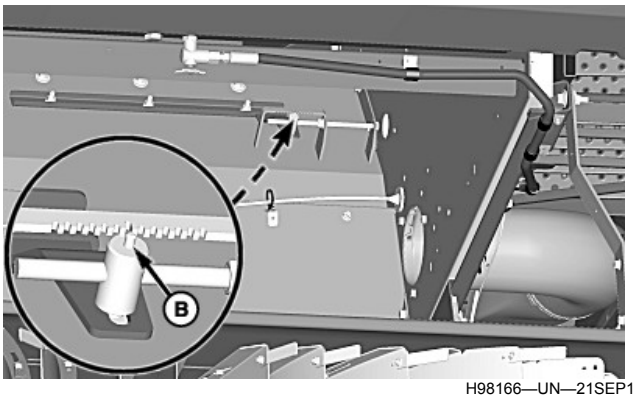
- Raise chopper fully. See Chopper Adjusting switch later in this section.
- Shift chopper drive into neutral position. See Chopper Drive Speeds—Changing later in this section.

OUO6075,00049B9-19-18JUN18

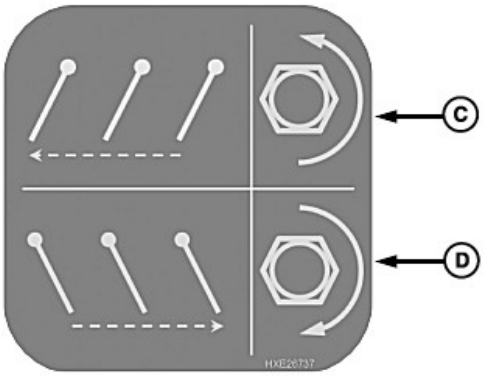
Crop Diverter Vanes—Adjusting



H98165—UN—21SEP10



H98166—UN—21SEP10



H98708—UN—19OCT10

A—Cap Screw
B—Indicator
C—Counterclockwise
D—Clockwise

⚠ CAUTION: Shut OFF engine, set parking brake and remove key.

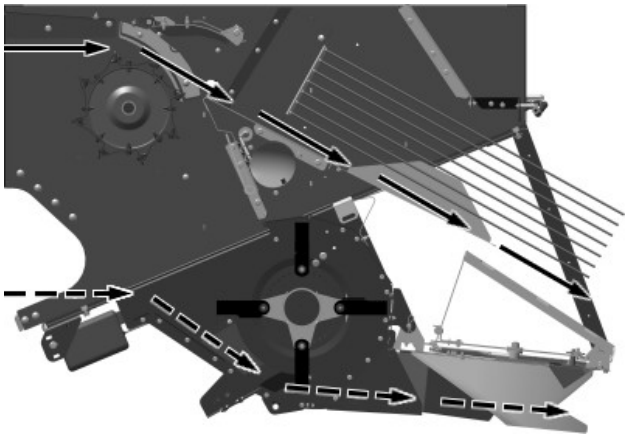
Turning cap screw (A) adjusts indicator (B) and moves crop diverter vanes.

- Counterclockwise (C) - moves vanes towards left-hand side of machine.
- Clockwise (D) - moves vanes towards right-hand side of machine.

NOTE: Adjust vanes until crop material distribution is even across body width.

OUO6075,00009CD-19-17NOV10

General Windrowing Information (Premium Residue)



H118033—UN—05APR16

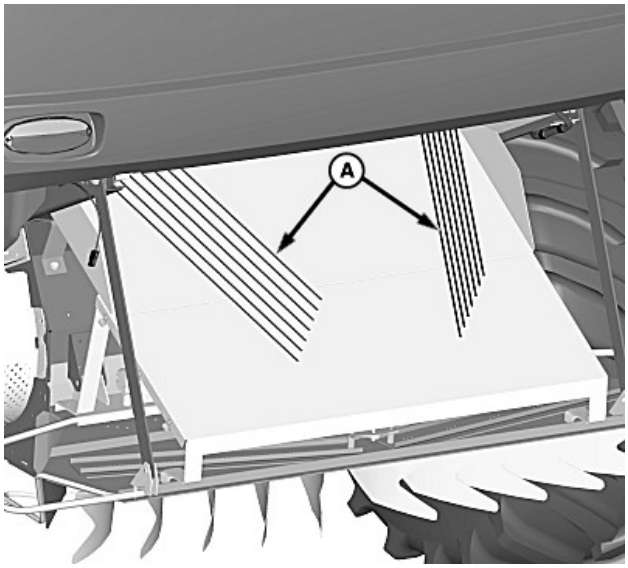
Windrowing Premium

NOTE: Solid arrows represent flow of straw. Dashed arrows represent flow of chaff.

- To windrow straw and spread chaff, open chop-to-drop door (Premium Model). See Residue Management Application Help or Operator's Station Help for further information.
- If harvesting low straw volume crops, lower cob deflector into corn position. See Crop Diverter in this section for further information.

OUO6075,00046FF-19-05APR17

Windrow Convergence Rakes



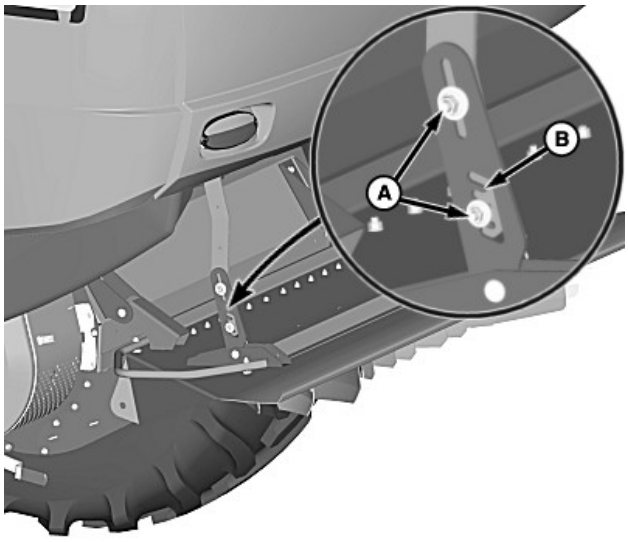
H98368—UN—30SEP10

A—Convergence Rakes

Convergence rakes (A) are used to divert cut straw material into a narrower windrow.

OUO6075,0004700-19-05APR17

Tailboard—Adjusting (Deluxe Residue)



H98131—UN—20SEP10

A—Cap Screws (4 Used)
B—Notches

CAUTION: Shut OFF engine, set park brake and remove key.

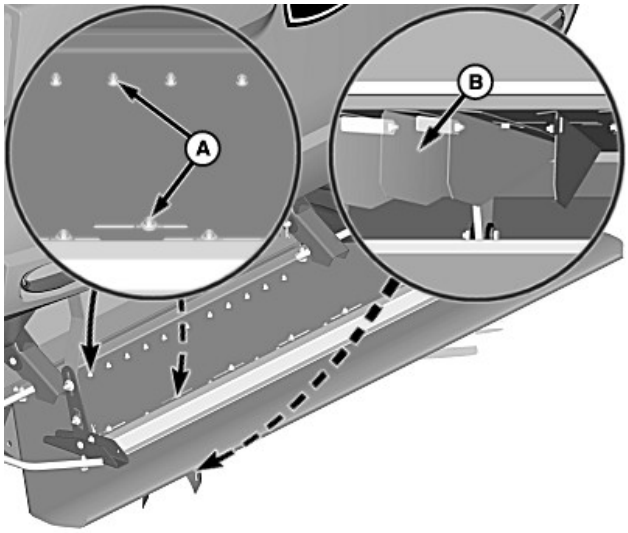
Loosen cap screws (A) on both sides of tailboard.

Adjust tailboard up or down in notches (B) to control straw spread width.

Tighten cap screws on both sides of tailboard to lock into position.

SS43267,000060A-19-04JUN15

Tailboard Vanes (Manual Adjust)—Adjusting (Deluxe Residue)



H98133—UN—20SEP10

A—Nuts
B—Tailboard Vane

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Adjustments can be made to tailboard vanes if factory settings do not produce adequate spread width or even distribution.

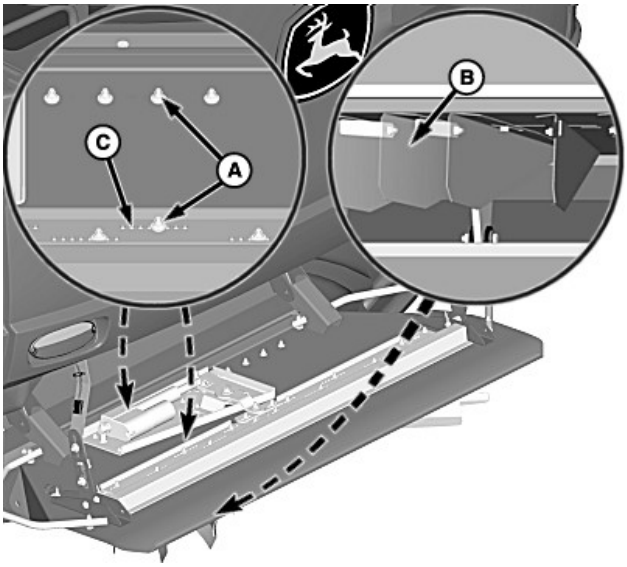
Tailboard vanes are factory set for 9.1 m (30 ft.) platforms.

Loosen nuts (A) and adjust tailboard vane (B) as needed to control distribution of straw spread width. See Tailboard Vanes (Manual Adjust)—Factory Settings later in this section.

Tighten nuts and repeat as needed on remaining tailboard vanes.

SS43267,000060B-19-04JUN15

Tailboard Vanes (Electric Motor)—Adjusting (Deluxe Residue)



H98134—UN—21SEP10

A—Nuts
B—Tailboard Vane
C—Holes

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Adjustments can be made to the tailboard vanes if the factory settings do not produce adequate spread width or even distribution.

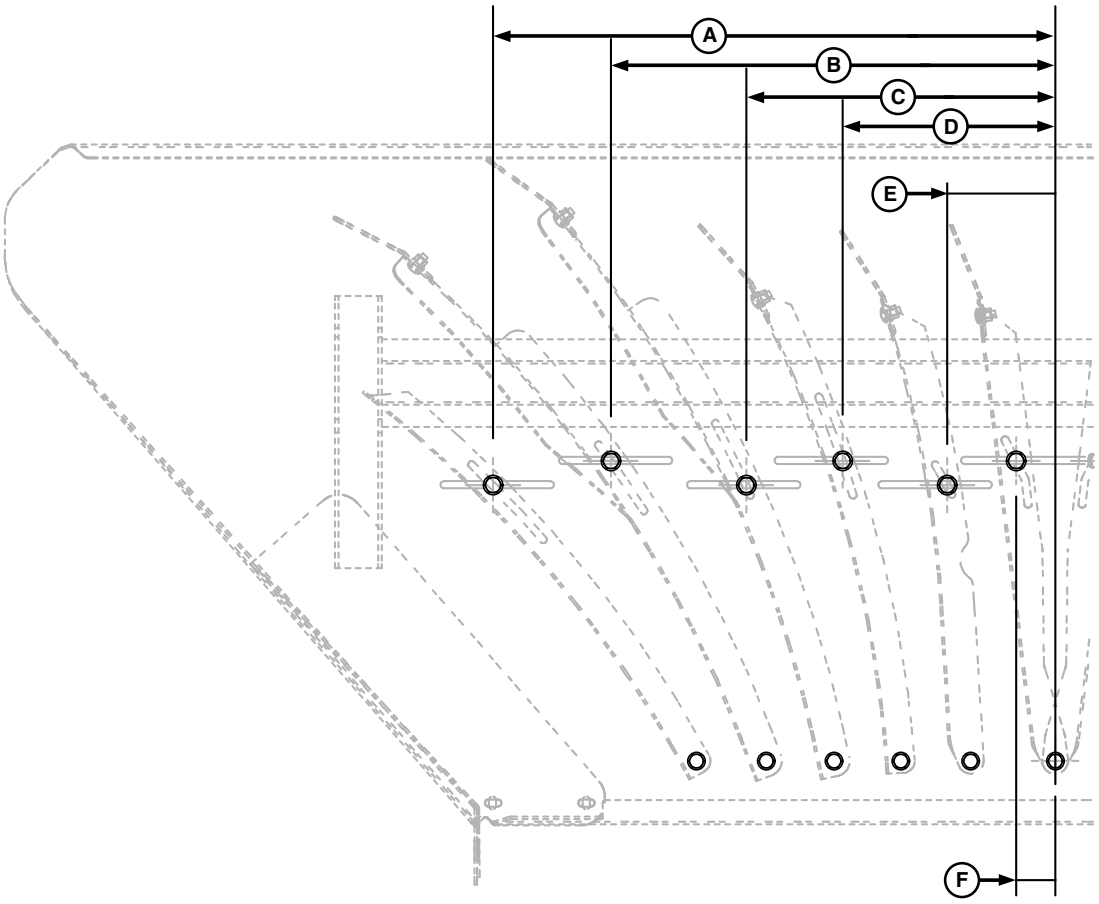
Tailboard vanes are factory set for 9.1 m (30 ft) platforms.

Loosen nuts (A) and adjust the tailboard vane (B) to different holes (C) if needed to control distribution of straw spread width. See Tailboard Vanes (Electrical Adjust)—Factory Settings later in this section.

1. Tighten nuts on tailboard vanes.
2. Loosen nut one complete turn at the front of the tailboard vane.
3. Loosen nut 1-1/2 turns at the rear of the tailboard vane.
4. Verify that the tailboard vane is easily moveable.
5. Repeat as needed on remaining tailboard vanes

OUO6075,0004702-19-05APR17

Tailboard Vanes (Manual Adjust)—Factory Settings (Deluxe Residue)



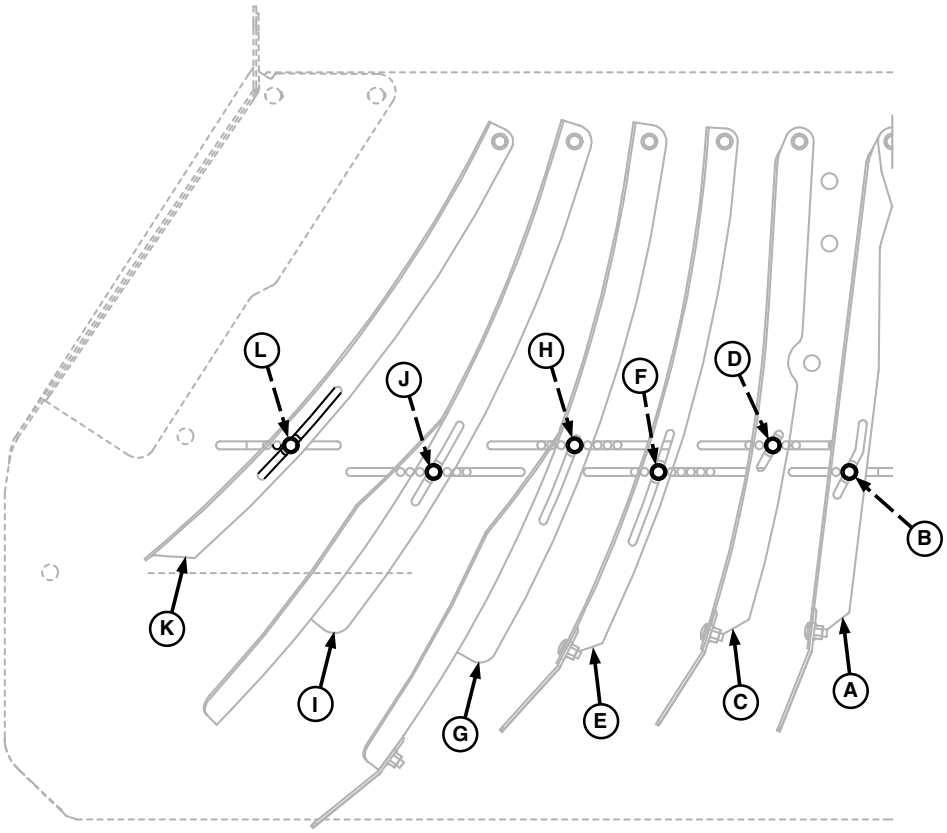
H100407—UN—23FEB11

Tailboard Vane Settings For 9.1 m (30 ft.) Platforms (View From Above Tailboard)

A—693 mm (27.3 in.)
B—548 mm (21.6 in.)
C—382 mm (15 in.)
D—262 mm (10.3 in.)
E—133 mm (5.2 in.)
F—48 mm (1.9 in.)

SS43267,000060D-19-04JUN15

Tailboard Vanes (Electrical Adjust)—Factory Settings (Deluxe Residue)



H100408—UN—23FEB11

Tailboard Vane Settings For 9.1 m (30 ft.) Platforms (View From Below Tailboard)

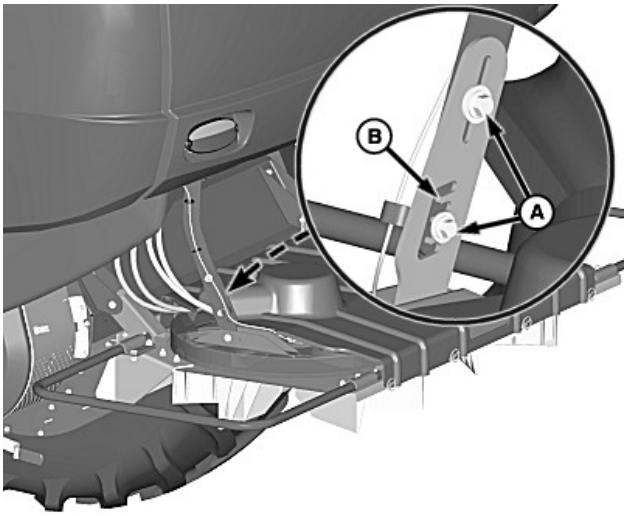
A—Vane 1
B—Second Hole
C—Vane 2
D—Third Hole
E—Vane 3
F—Sixth Hole
G—Vane 4
H—Fifth Hole
I—Vane 5
J—Fourth Hole
K—Vane 6
L—First Hole

NOTE: Hole locations are from center of tailboard outward when adjusting tailboard vanes.

If 7.6 m (25 ft.) spread width pattern is desired, see your John Deere dealer for further information on an optional kit.

SS43267,000060E-19-04JUN15

PowerCast™ Tailboard—Adjusting (Optional)



H98132—UN—20SEP10

A—Cap Screws (4 used)
B—Notches

CAUTION: Do not let anyone stand behind spreading tailboard while it is running. Shut OFF engine, set park brake and remove key before adjusting.

For best performance, PowerCast™ tailboard should always run level or parallel to ground. Depending on tire combinations, it may be necessary to raise or lower tailboard.

Park machine on level ground.

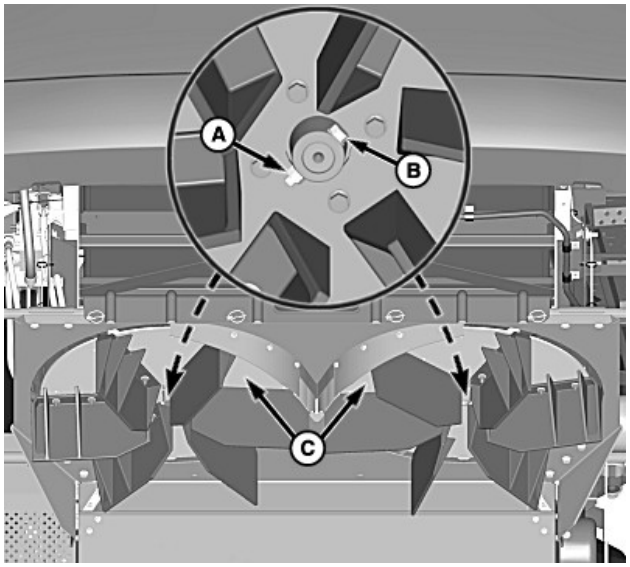
Loosen cap screws (A) on both sides of the PowerCast™ tailboard.

Adjust PowerCast™ tailboard up or down in notches (B) to level the PowerCast™ tailboard.

Tighten cap screws on both sides of the PowerCast™ tailboard to lock into position.

OUO6075,0004701-19-05APR17

PowerCast™ Tailboard Blade—Replacing (Optional)



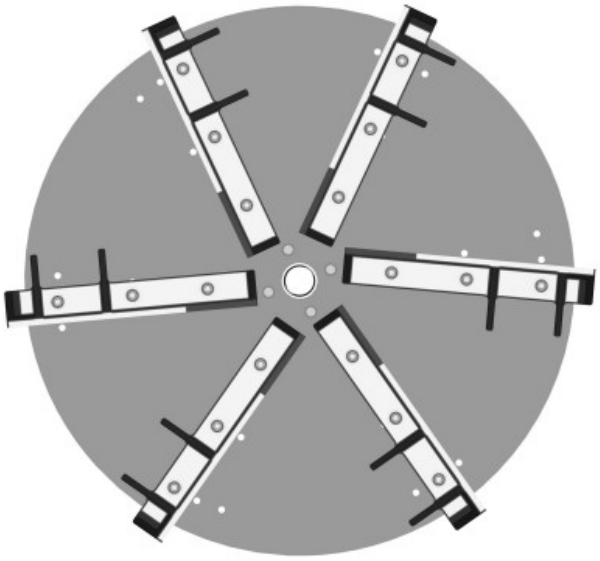
H98170—UN—22SEP10

A—Lock Nut
B—Cap Screw
C—Spreader Disk Assemblies

CAUTION: Disk assemblies weigh approximately 13 kg (29 lb).

IMPORTANT: Disk assemblies are left-handed and right-handed. Mark disk assembly locations before removing.

Remove lock nut (A) and cap screw (B) from spreader disk assemblies (C).



H98171—UN—22SEP10

IMPORTANT: When replacing worn or damaged blades, make sure to replace blades on the opposite sides of the disk at the same time to maintain disk rotational balance.

PowerCast is a trademark of Deere & Company

Blades are oriented in alternating hole patterns to obtain an optimum material spread. Ensure that replacement blades are put back in the same holes as previously removed.

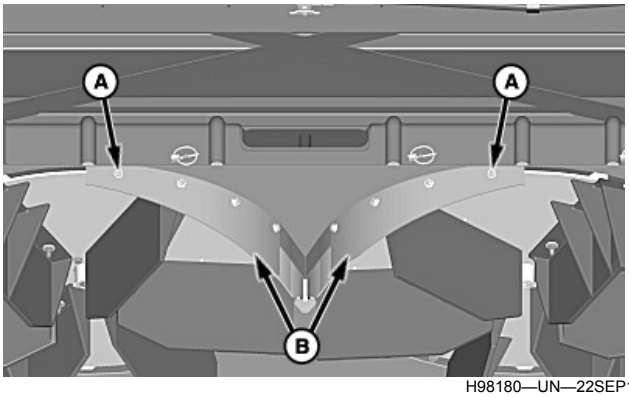
Install replacement blades as needed and tighten hardware to specification.

Specification

Blade Hardware—Torque. . . . . 22 N·m (16 lb·ft)

OUO6075,0004706-19-05APR17

PowerCast™ Tailboard (Optional) Rear Shrouds



H98180—UN—22SEP10

A—Hardware (8 used)
B—Rear Shrouds

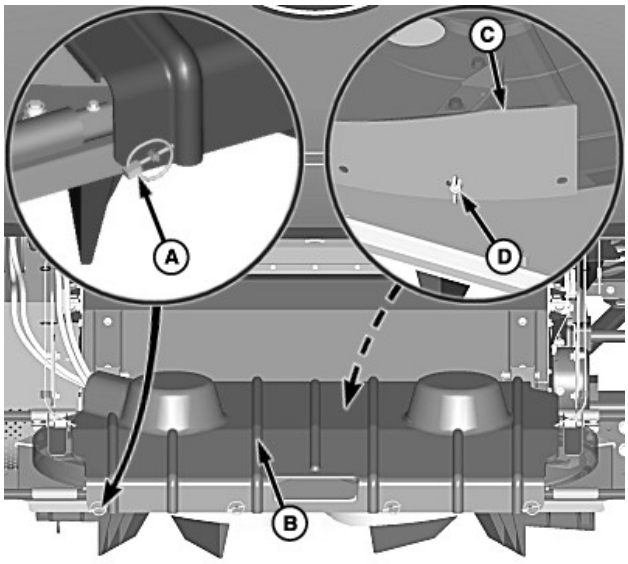
NOTE: Shrouds can be removed to spread more material towards the center of the machine when harvesting in tough or heavy straw conditions.

Front and rear shrouds should always be installed to provide optimal material distribution when harvesting corn.

Field Position

Shrouds are used to manage residue spread width distribution for wider platforms.

Install rear shrouds (B) behind the welded strap as shown and retain with hardware (A).



H98181—UN—22SEP10

A—Quick-Lock Pins
B—Shield
C—Rear Shrouds
D—Wing Nut

Storage Position

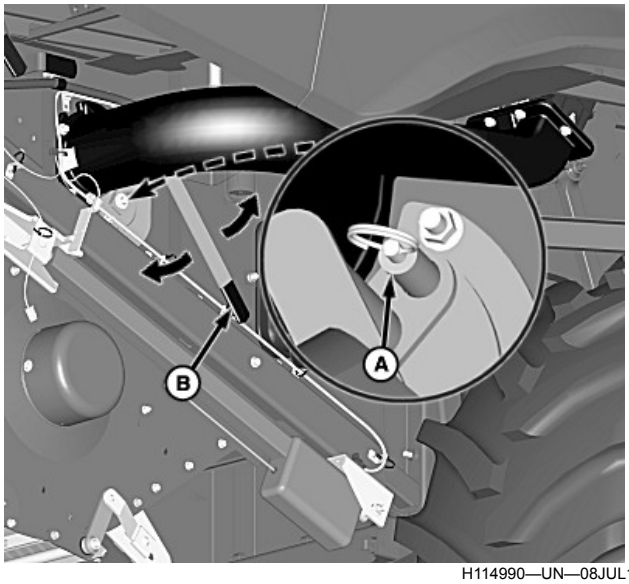
Remove and retain quick-lock pins (A) and shield (B).

Install rear shrouds (C) to weld stud as shown and retain with the wing nut (D).

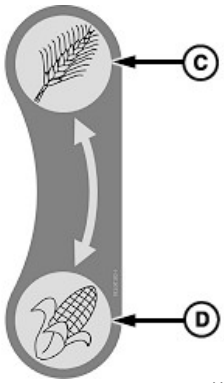
Install previously removed shield and quick-lock pins.

OUO6075,0004707-19-05APR17

Crop Diverter



H114990—UN—08JUL15



H99171—UN—23NOV10

A—Lock-Out Pin
B—Crop Diverter Handle
C—Small Grain Position
D—Large Grain Position

IMPORTANT: To prevent personal injury or machine damage do not move crop diverter handle when machine is running.

Small Grain Position (C):

Pull lockout pin (A) and move crop diverter handle (B) to ”UPPER” position. Crop diverter handle should be placed in ”UPPER” position when servicing cleaning shoe.

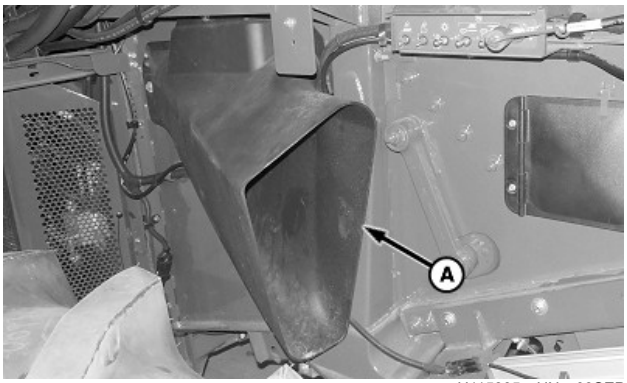
Large Grain Position (D):

NOTE: When harvesting corn or sunflowers, crop diverter handle should be in ”LOWER” position.

Pull lockout pin (A) and move crop diverter handle (B) to ”LOWER” position. Crop diverter protects cleaning shoe from damage by preventing material from being thrown forward.

SS43267,000067D-19-08JUL15

Air Chutes



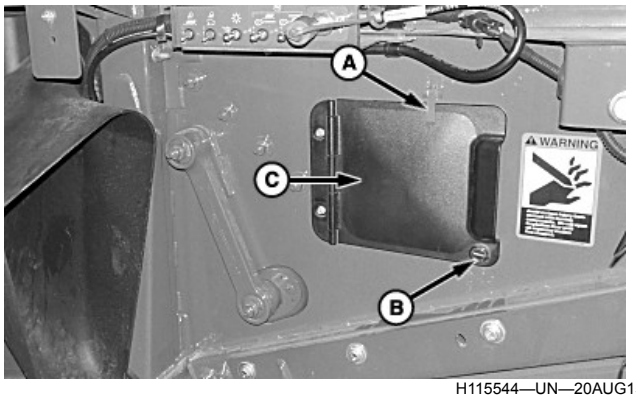
H115835—UN—08SEP15

A—Air Chute

Air chute (A) on both sides of separator side sheet allows cleaning shoe to breathe more freely especially when running on low speed. Depending on harvesting conditions, grain tank quality may be enhanced and feeder house dust reduced.

OUO6075,000417A-19-11APR16

Overshot Beater Floor (If Equipped)—Removing (Premium Residue)



H115544—UN—20AUG15

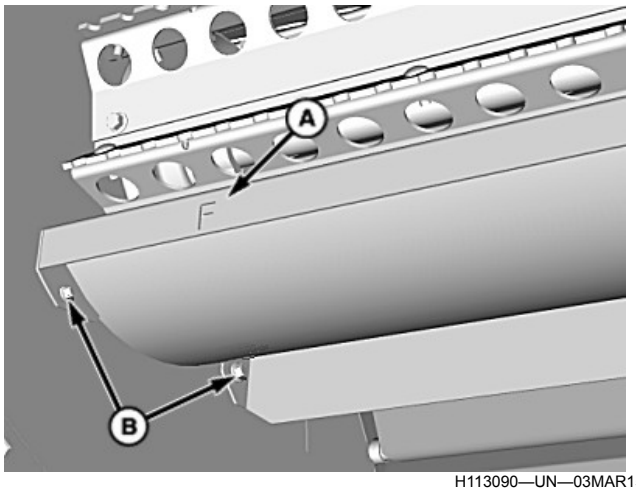
A—Clip
B—Lock
C—Cleaning Shoe Access Door

IMPORTANT: Shut OFF engine, set park brake and remove key.

Tough crop overshot beater wear strips must be replaced with the standard overshot beater wear strips when using the overshot beater floor.

NOTE: Overshot beater floor should be installed for corn/large grain and removed for small grain.

1. Open clip (A) and turn lock (B) to open cleaning shoe access door (C).



H113090—UN—03MAR15

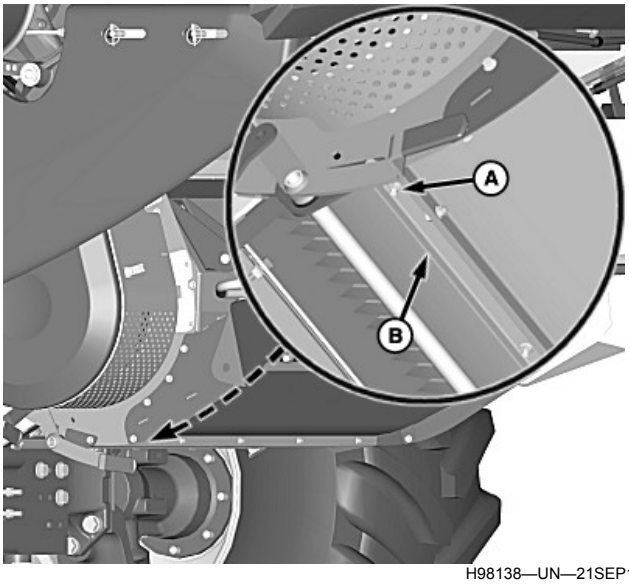
A—Overshot Beater Floor
B—Cap Screws and Nuts

NOTE: Two people are required to remove the overshot beater floor. One person supports the overshot beater floor, while the other person removes the cap screws and nuts.

2. Support overshot beater floor (A) and remove cap screws and nuts (B).

OUO6075,0004597-19-24JAN17

Chopper Controller Bar (Optional)



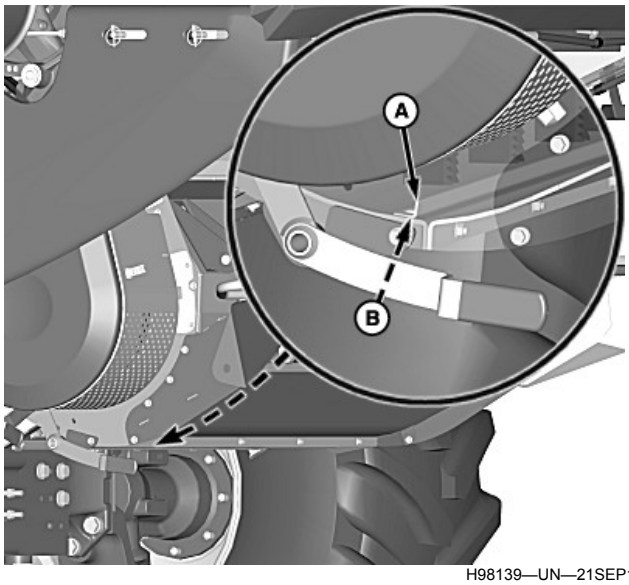
H98138—UN—21SEP10

A—Hardware
B—Controller Bar

IMPORTANT: Controller bar must be removed and placed in storage position when harvesting corn. Failure to remove controller bar can result in chaffer element damage.

Controller bar improves cut quality, distribution, and spread width in tough straw conditions. See your John Deere dealer for further information.

Remove hardware (A) and controller bar (B) from bottom side of chopper.



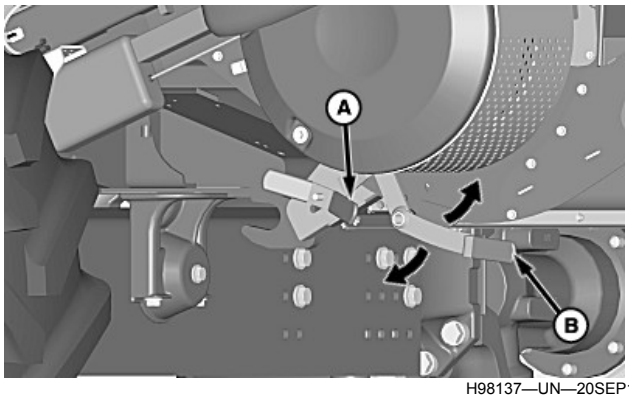
H98139—UN—21SEP10

A—Controller Bar
B—Hardware

Raise chopper fully to install controller bar (A) on inside of chopper as shown and retain with hardware (B).

OUO6075,00009BF-19-21SEP10

Chopper Stationary Knifebank—Adjusting



H98137—UN—20SEP10

Knifebank Engaged Position

A—Wing Nut
B—Handle

CAUTION: Shut OFF engine, set parking brake and remove key.

IMPORTANT: Knifebank must be fully disengaged for corn.

NOTE: Chopper can be run with knives disengaged, however cut quality decreases.

Use position in between to optimize power consumption and achieve satisfactory cut length.

Knives can be adjusted to any position. Position of knives determines cut length of material.

Knifebank Engaged Position:

Loosen wing nut (A) on chopper.

Move adjustment handle (B) downward until knifebank is at top of adjustment slot.

Tighten wing nut to lock knifebank into position.

Knifebank Disengaged Position:

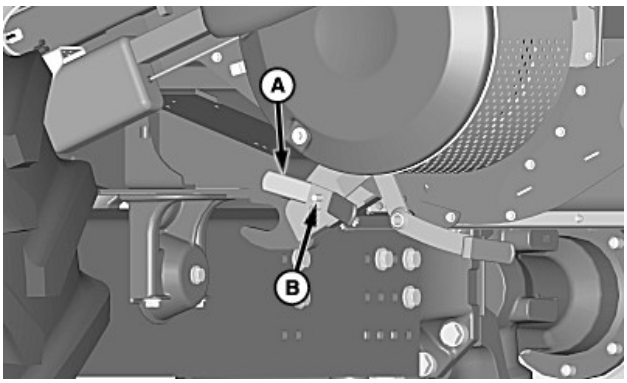
Loosen wing nut (A) on chopper.

Move adjustment handle (B) upward until knifebank is at bottom of adjustment slot.

Tighten wing nut to lock knifebank into position.

OUO6075,00009C1-19-21SEP10

Chopper Stationary Knife Blades—Replacing



H98140—UN—21SEP10

A—Wing Nut
B—Tension Rod

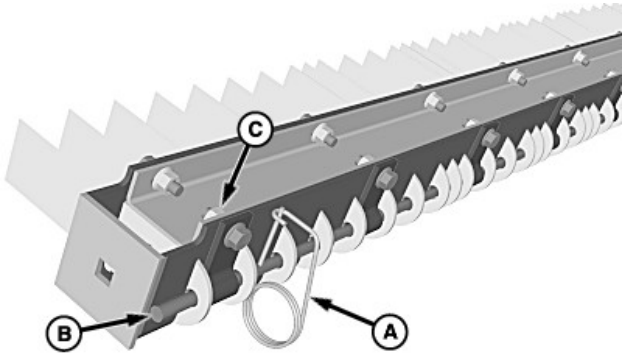
CAUTION: Shut OFF engine, set parking brake and remove key. Knife blades are sharp.

Loosen wing nut (A) on chopper.

Move adjustment handle upward until knifebank is at bottom of adjustment slot.

NOTE: Retain bushing at outer ends of knifebank for later assembly.

Support knifebank and remove tension rod (B) by pushing out right side of machine.



H82430—UN—14FEB05

A—Pin
B—Retaining Rod
C—Lock Nuts

Remove pin (A) from retaining rod (B).

Loosen lock nuts (C) on clips holding retaining rod.

Slide retaining rod until it clears knives that need to be replaced.

Reverse knives for additional usage or replace knives if worn on both sides.

Align retaining rod with knives.

Tighten lock nuts on clips and install pin.

NOTE: Reposition bushing at outer ends of knifebank.

Install knifebank assembly and slide tension rod from right side of machine.

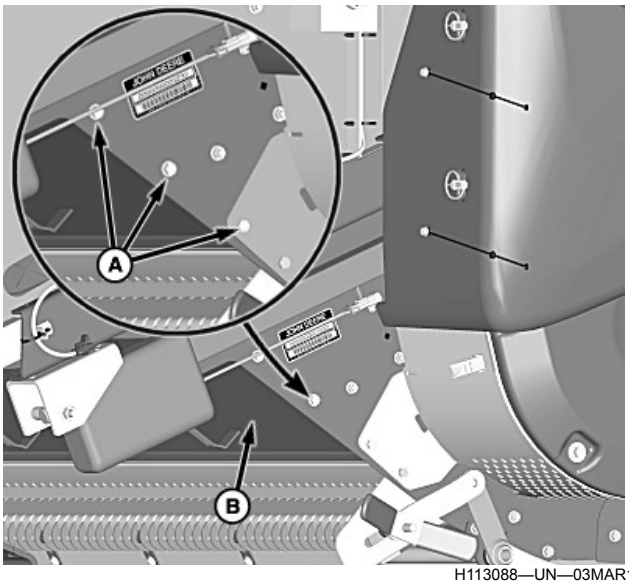
Install wing nut and adjust knifebank to desired position.

IMPORTANT: Knifebank must be fully disengaged for corn.

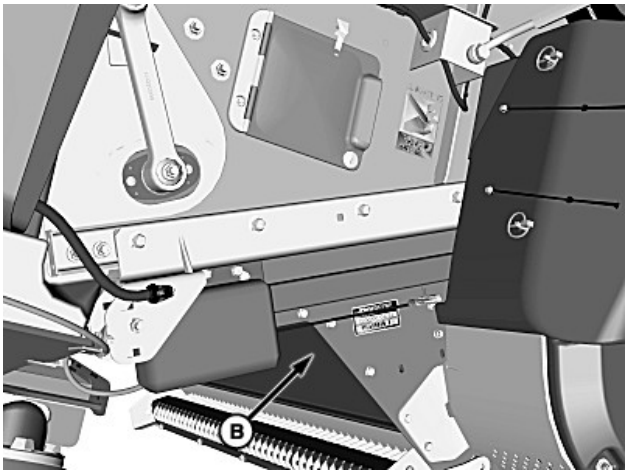
Tighten wing nut to lock knifebank into position.

OUO6075,00009C0-19-21SEP10

Chopper Access Door



H113088—UN—03MAR15



H113086—UN—02MAR15

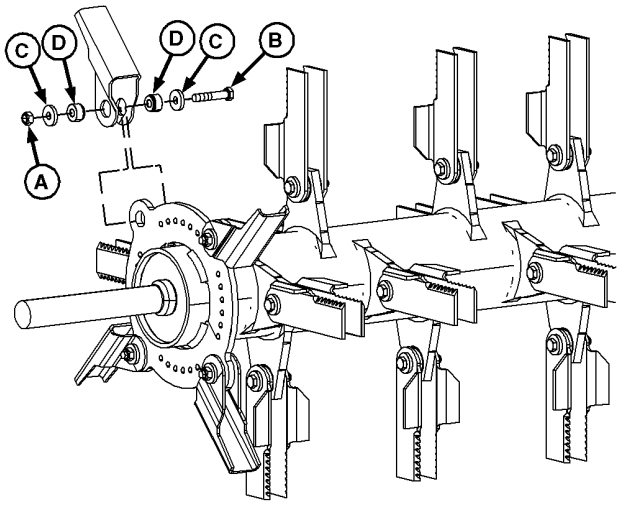
A—Cap Screws
B—Access Door

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

Remove cap screws (A) from both sides of chopper to remove access door (B).

SS43267,0000533-19-03MAR15

Fine Cut Chopper Blades—Replacing and Configuration



H87281—UN—01AUG07

A—Lock Nut
B—Cap Screw
C—Washers
D—Bushings

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Rotor shown illustrates blade replacement examples for both scoop and paddle blades. Always maintain original factory provided blade pattern.

Outer Blades

NOTE: If removing blades or bushings for inspection purposes, be certain to reinstall blades on SAME support from which they were removed. This must be done to maintain balance. It is a good practice to mark each blade before removal.

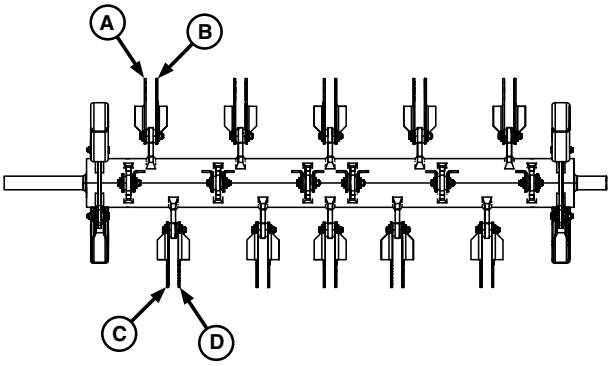
Install new cap screws and lock nuts in the same direction as it was removed when installing or replacing blades.

Remove lock nut (A), cap screw (B), washers (C), and bushings (D).

NOTE: Inspect and replace bushings if worn. Replace lock nuts and cap screws with new hardware.

Replace blades and bushings. Install cap screw, washers, and lock nut. Tighten nut to specification.

Specification	
Chopper Blade Lock Nut—Torque	65 N·m (48 lb·ft)



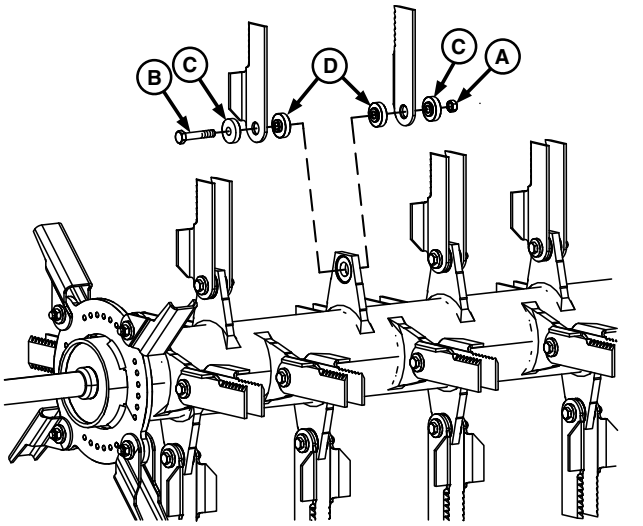
H107307—UN—22MAR13

A—D—Paddle Blades

Blade Configuration

IMPORTANT: Chopper balance MUST be maintained. Replace BOTH blades on single support and BOTH blades on opposite support (180 degrees). Four blades MUST be installed to replace one broken blade, or all blades can be replaced at one time. This MUST be done to maintain balance.

If the blade (A) is broken, replace blades (A—D).



H98142—UN—21SEP10

A—Lock Nut
B—Cap Screw
C—Bushings
D—Bushings

Inner Blades

NOTE: If removing blades or bushings for inspection purposes, be certain to reinstall blades on SAME support from which they were removed. This must be done to maintain balance. It is a good practice to mark each blade before removal.

Install new cap screws and lock nuts in the same direction as it was removed when installing or replacing blades.

Remove lock nut (A) and cap screw (B).

Remove and inspect bushings (C and D).

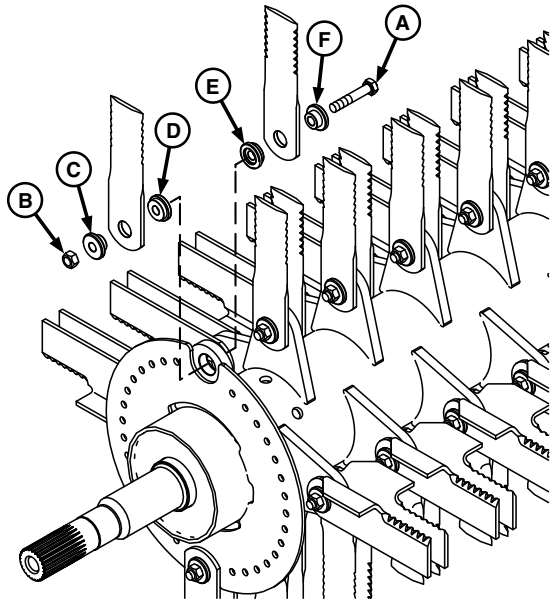
NOTE: Inspect and replace bushings if worn. Replace lock nuts and cap screws with new hardware.

Replace blades and bushings. Install cap screw and lock nut. Tighten nut to specification.

Specification	
Chopper Blade Lock Nut—Torque	65 N·m (48 lb·ft)

OUO6075,0004928-19-29MAR18

Extra Fine Cut Chopper Blades—Replacing and Configuration



H99000—UN—12NOV10

A—Lock Nut
B—Cap Screw
C—Bushing
D—Bushing
E—Bushing
F—Bushing

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Rotor shown illustrates blade replacement examples for both paddle and straight blades. Always maintain original factory provided blade pattern.

Outer Blades

NOTE: If removing blades or bushings for inspection purposes, be certain to reinstall blades on SAME support from which they were removed. This must be done to maintain balance. It is a good practice to mark each blade before removal.

Install new cap screws and lock nuts in the same direction as it was removed when installing or replacing blades.

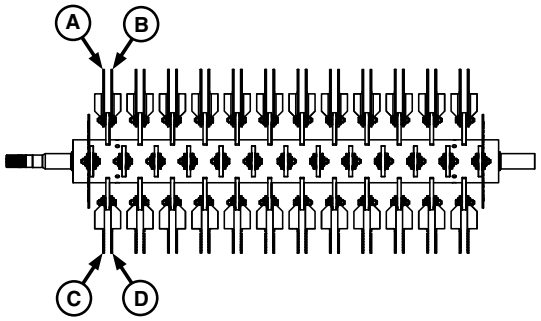
Remove lock nut (A), cap screw (B), and bushings (C, D, E, F).

NOTE: Inspect and replace bushings if worn. Replace lock nuts and cap screws with new hardware.

Replace blades and bushings. Install cap screw, washer, bushings, and lock nut. Tighten nut to specification.

Specification

Chopper Blade Lock Nut—Torque. . . . . 65 N·m (48 lb·ft)



H107308—UN—22MAR13

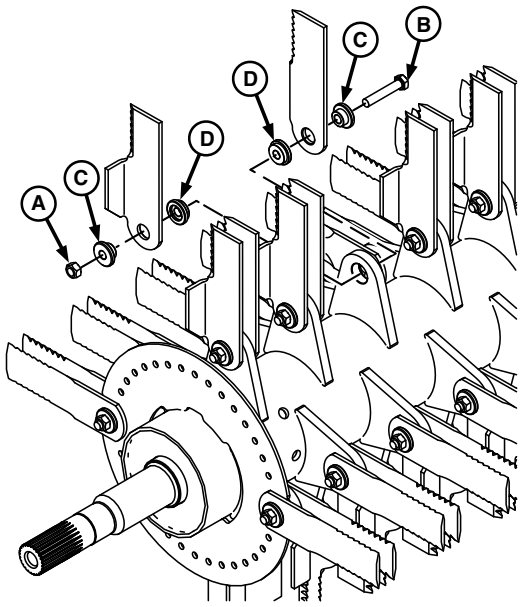
A—D—Paddle Blades

Blade Configuration

IMPORTANT: Chopper balance MUST be maintained. Replace BOTH blades on single support and BOTH blades on opposite support (180 degrees). Four blades MUST be installed to replace one broken blade, or all blades can be replaced at one time. This MUST be done to maintain balance.

If the blade (A) is broken, replace blades (A—D).

IMPORTANT: Verify clearance between rotor blades and stationary knives, by rotating rotor by hand, before running chopper.



H99002—UN—12NOV10

A—Lock Nut
B—Cap Screw
C—Bushings
D—Bushings

Inner Blades

NOTE: If removing blades or bushings for inspection purposes, be certain to reinstall blades on SAME support from which they were removed. This must be done to maintain balance. It is a good practice to mark each blade before removal.

Install new cap screws and lock nuts in the same direction as it was removed when installing or replacing blades.

Remove lock nut (A) and cap screw (B).

Remove and inspect bushings (C and D).

NOTE: Inspect and replace bushings if worn. Replace lock nuts and cap screws with new hardware.

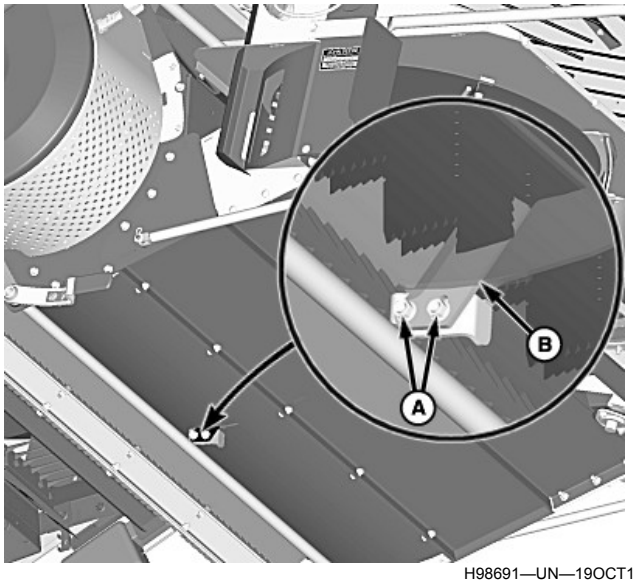
Replace blades and bushings. Install cap screw and lock nut. Tighten nut to specification.

Specification

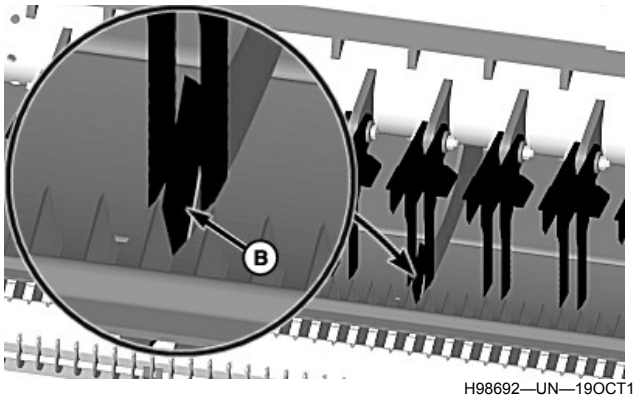
Chopper Blade Lock Nut—Torque. . . . . 65 N·m (48 lb·ft)

OUO6075,0004929-19-29MAR18

Middle Splitter Knife—Replacing (Advanced PowerCast™ Tailboard)



H98691—UN—19OCT10



H98692—UN—19OCT10

A—Hardware
B—Middle Splitter Knife

⚠ CAUTION: Shut OFF engine, set park brake and remove key. Knife blade is sharp.

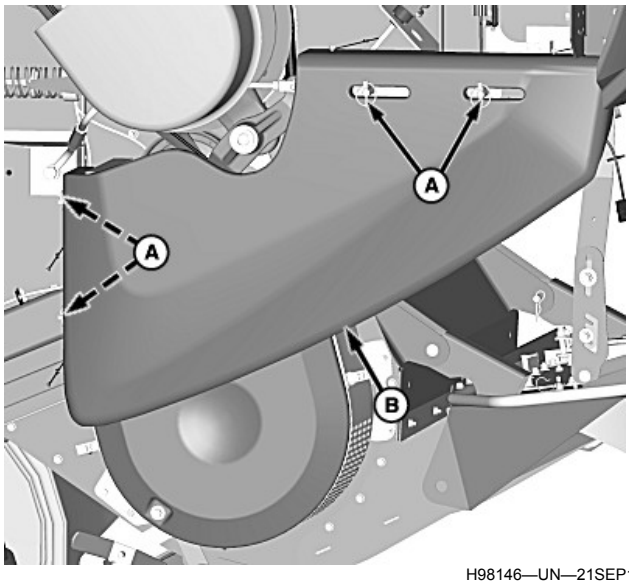
Remove hardware (A) and discard middle splitter knife (B).

NOTE: Knife must be seated against the middle splitter so no gap exists.

Replace middle splitter knife and install previously removed hardware.

OUO6075,00046FE-19-05APR17

Chopper Blades—Centering

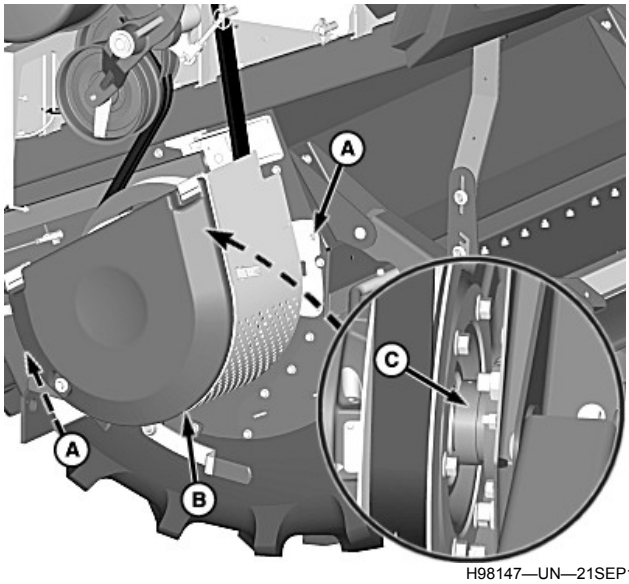


H98146—UN—21SEP10

A—Quick-Lock Pins
B—Shield

⚠ CAUTION: Shut OFF engine, set parking brake and remove key.

Raise chopper fully and remove quick-lock pins (A) and shield (B).

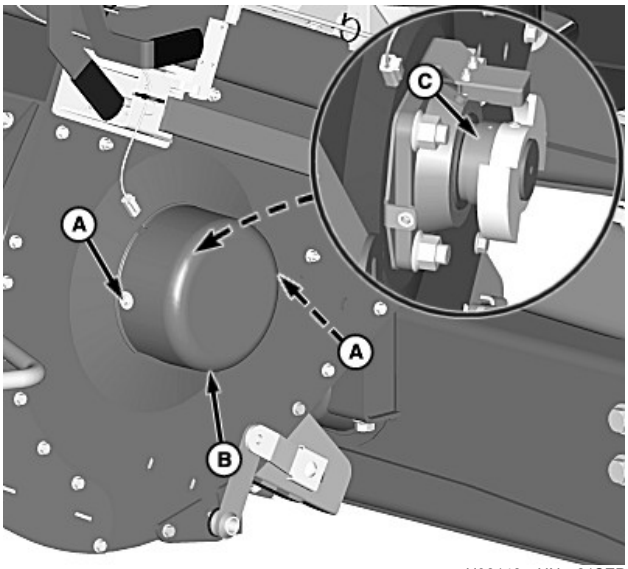


H98147—UN—21SEP10

A—Cap Screws (4 Used)
B—Shield
C—Locking Collar

Remove cap screws (A) and shield (B).

Loosen set screw and locking collar (C) on left-hand side.

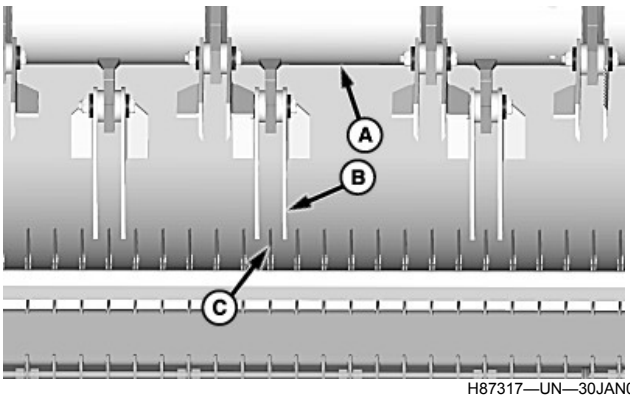


H98148—UN—21SEP10

A—Cap Screws (2 Used)
B—Bearing Cover
C—Locking Collar

Remove cap screws (A) and bearing cover (B).

Loosen set screw and locking collar (C) on right-hand side.



H87317—UN—30JAN07

A—Chopper Rotor
B—Rotor Blades
C—Stationary Knives

Position chopper rotor (A) right or left to ensure all rotor blades (B) clear stationary knives (C).

Tighten locking collars on both sides in direction of rotation and retain with set screws.

Install bearing cover on right-hand side and chopper shields on left-hand side.

OUO6075,00009C4-19-21SEP10

Chopper Adjusting Switch



H97565—UN—14SEP10

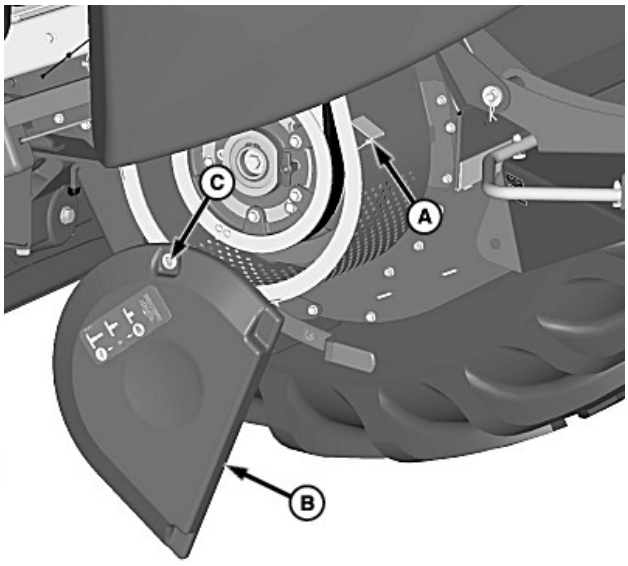
A—Chopper Switch

Chopper adjust switch (A) is located on left-hand side of machine.

Chopper adjust switch allows operator to raise or lower chopper to various positions.

OUO6075,00009C6-19-21SEP10

Chopper Drive Speeds—Changing



H105440—UN—18MAY12

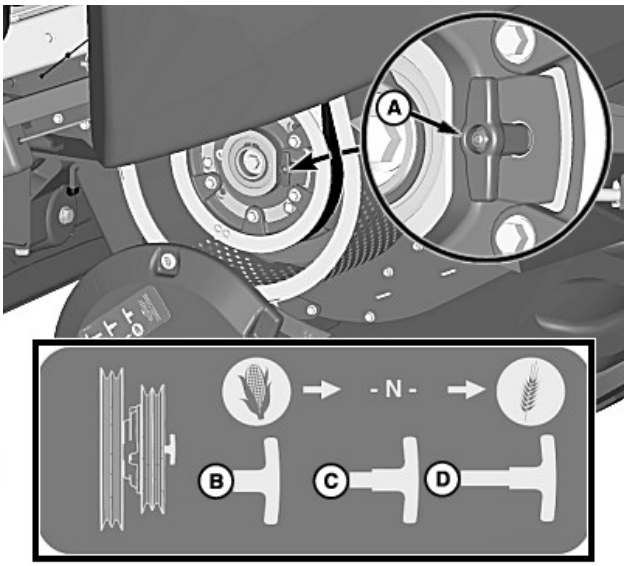
A—Latch
B—Shield
C—Pivot

CAUTION: Shut OFF engine, set parking brake and remove key.

Release latch (A) and rotate shield (B) on pivot (C).

Slow Speed Position:

NOTE: It may be necessary to rotate sheave a small amount while moving shifter handle.



H105441—UN—18MAY12

A—Shifter Handle
B—Slow Speed Position
C—Neutral Position
D—High Speed Position

Move shifter handle (A) to position (B).

- Corn

Neutral Position:

NOTE: It may be necessary to rotate sheave a small amount while moving shifter handle.

Move shifter handle (A) to position (C).

High Speed Position:

NOTE: It may be necessary to rotate sheave a small amount while moving shifter handle.

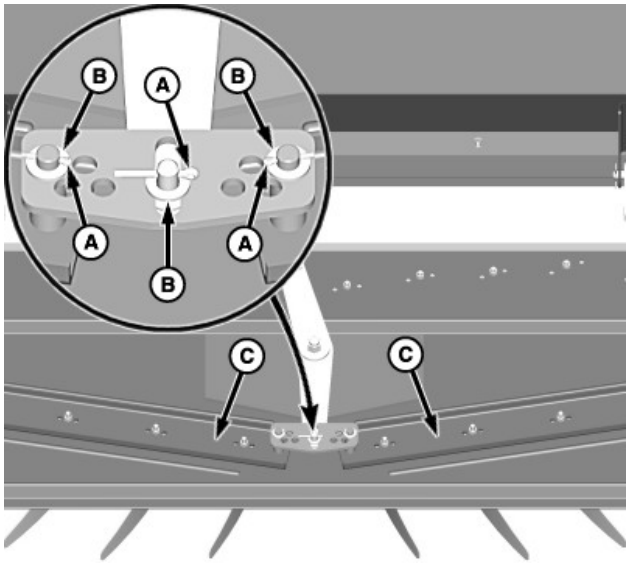
Move shifter handle (A) to position (D).

- Grain

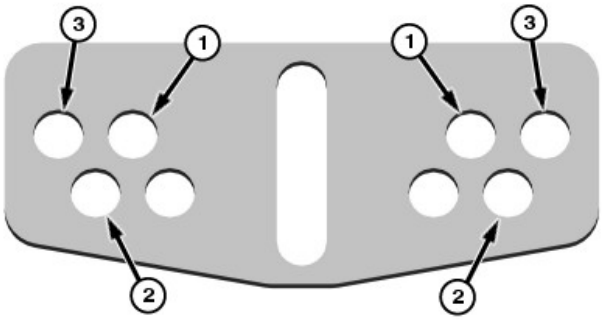
Close shield and retain with latch.

OUO6075,000113F-19-18MAY12

Tailboard Vanes—Adjusting (Intermediate/ Premium Residue)



H98656—UN—19OCT10



H98657—UN—19OCT10

A—Cotter Pins
B—Washers
C—Slide Guides

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Adjustments can be made to tailboard vanes if factory settings do not produce adequate spread width or even distribution.

Tailboard vanes are factory set for 9.1 m (30 ft) platforms.

Remove and retain cotter pins (A) and washers (B).

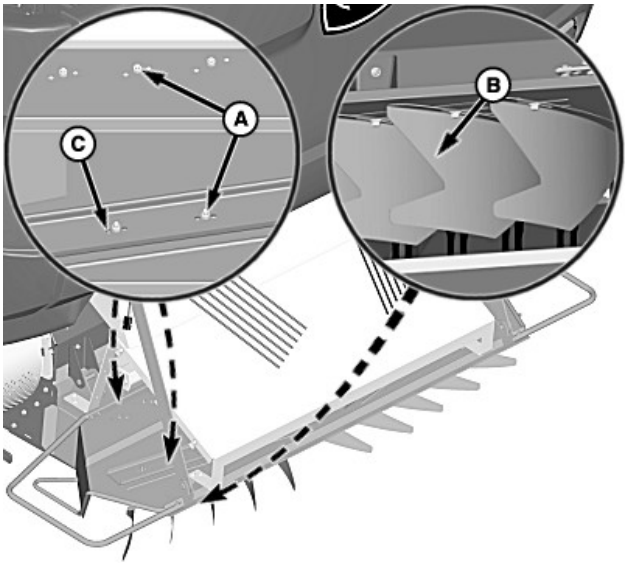
Adjust slide guides (C) to desired holes in the adjustment plate.

- Hole 1: 6.7 m (22 ft) Header Position
- Hole 2: 7.6 m (25 ft) Header Position
- Hole 3: 9.1 m (30 ft) Header Position

Install previously removed washers and cotter pins.

OUO6075,00041D9-19-11APR16

Tailboard Vanes (Electric Motor)—Adjusting (Intermediate/Premium Residue)



H98365—UN—30SEP10

A—Nuts
B—Tailboard Vane
C—Holes

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Adjustments can be made to the tailboard vanes if the factory settings do not produce adequate spread width or even distribution.

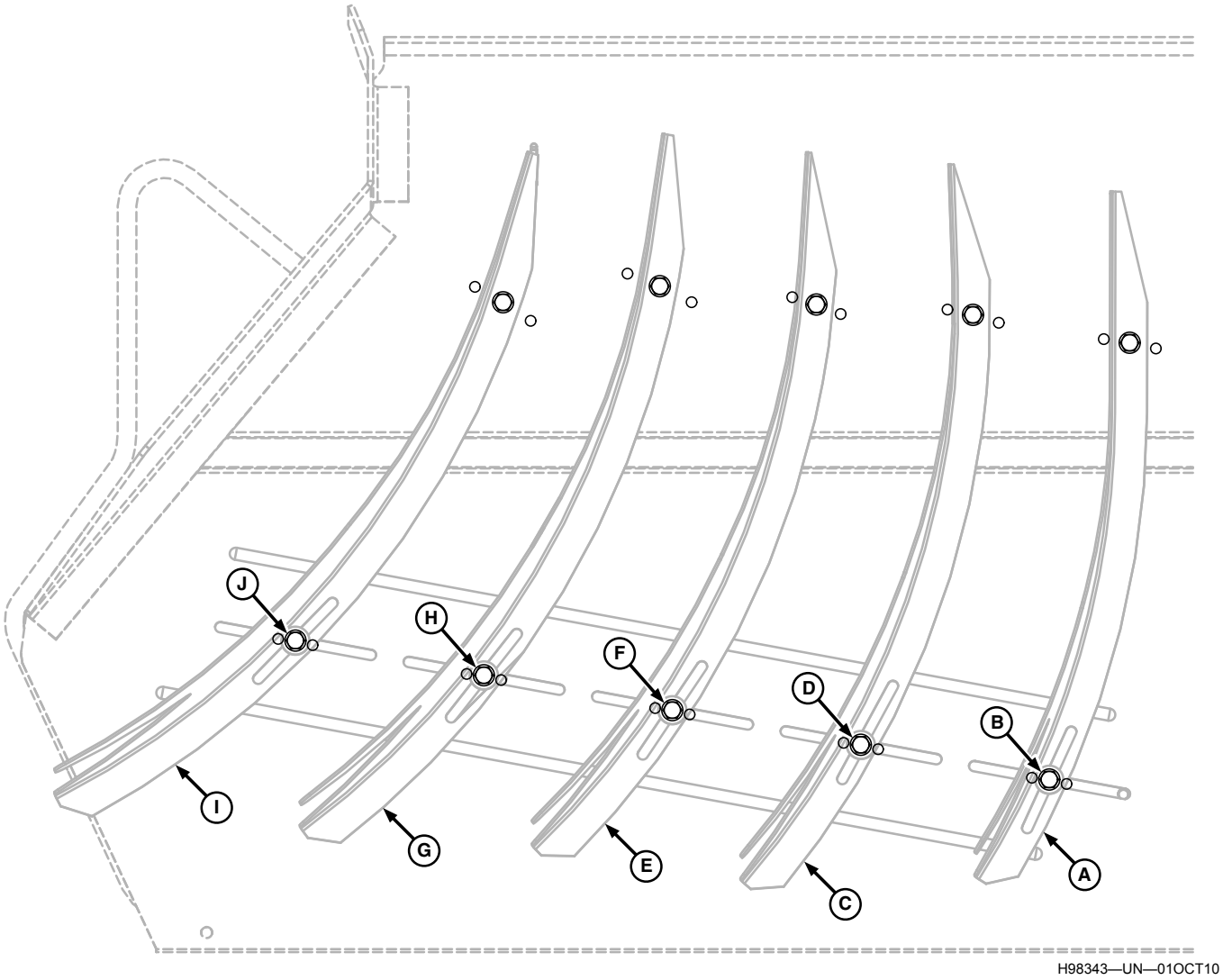
Tailboard vanes are factory set for 9.1 m (30 ft) platforms.

Loosen nuts (A) and adjust the tailboard vane (B) to different holes (C) if needed to control distribution of straw spread width. See Tailboard Vanes (Electrical Adjust)—Factory Settings later in this section.

1. Tighten nuts on tailboard vanes.
2. Loosen nut one complete turn at the front of the tailboard vane.
3. Loosen nut 1-1/2 turns at the rear of the tailboard vane.
4. Verify that the tailboard vane is easily moveable.
5. Repeat as needed on remaining tailboard vanes

OUO6075,0004703-19-05APR17

Tailboard Vanes (Electrical Adjust)—Factory Settings (Intermediate/Premium Residue)



H98343—UN—01OCT10

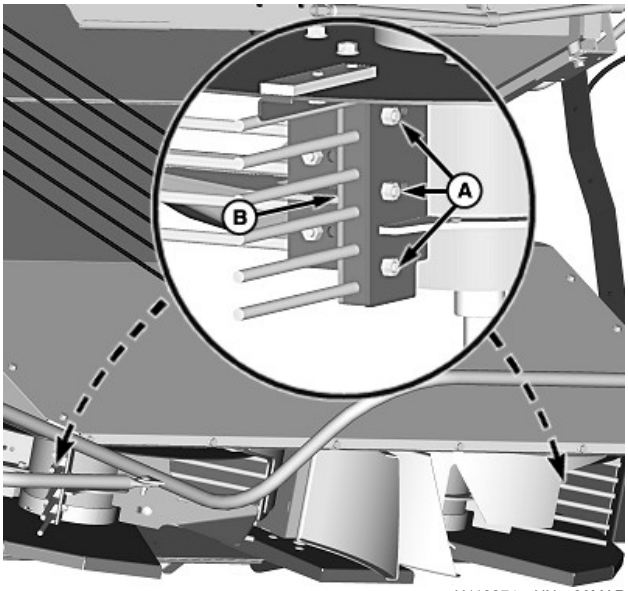
Tailboard Vane Settings For 9.1 m (30 ft) Platforms (View From Below Tailboard)

A—Vane 1
B—Middle Hole
C—Vane 2
D—Middle Hole
E—Vane 3
F—Middle Hole
G—Vane 4
H—Middle Hole
I—Vane 5
J—Middle Hole

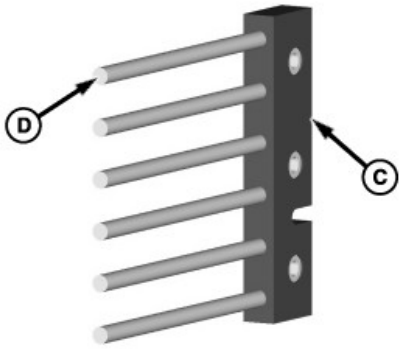
NOTE: Hole locations are from center of tailboard outward when adjusting tailboard vanes.

OUO6075,00041DB-19-21MAR16

Advanced PowerCast Spreader Disks—Replacing



H113274—UN—26MAR15



H98694—UN—19OCT10

A—Hardware
B—Bracket
C—Rubber Support
D—Fingers

⚠ CAUTION: Shut OFF engine, set parking brake and remove key.

Remove hardware (A) and bracket (B).

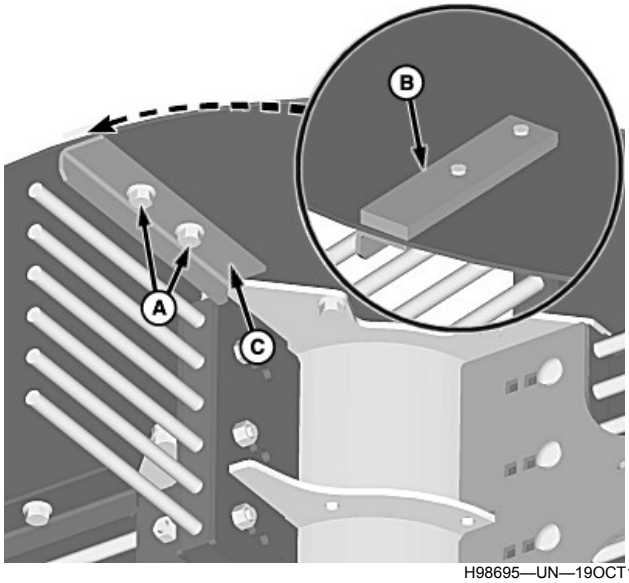
Inspect and replace rubber support (C) and fingers (D) as needed. See your John Deere dealer for replacement parts.

IMPORTANT: Replace all rubber supports to maintain disk rotational balance.

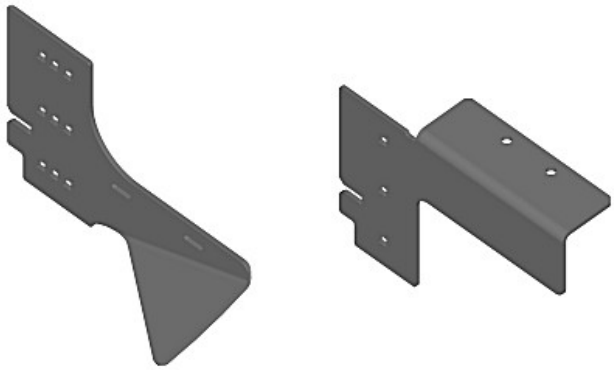
Install replacement rubber support and fingers as needed.

Ensure that rubber support and bracket are put back in the same holes as previously removed.

Tighten hardware and repeat as needed on remaining disk blades.



H98695—UN—19OCT10



H102241—UN—23JUN11

Small Grain Paddle / Corn Paddle

A—Cap Screws
B—Plate
C—Paddle Brackets

Remove cap screws (A) from plate (B).

Inspect and replace paddle bracket (C) as needed. See your John Deere dealer for replacement parts.

IMPORTANT: Replace all paddle brackets to maintain disk rotational balance.

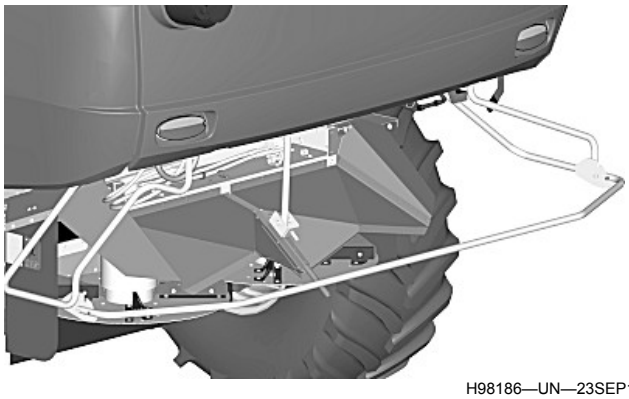
Install replacement paddle bracket as needed.

Tighten hardware and repeat as needed on remaining disk blades.

NOTE: Remove small grain paddles and install corn paddles as needed for crop being harvested.

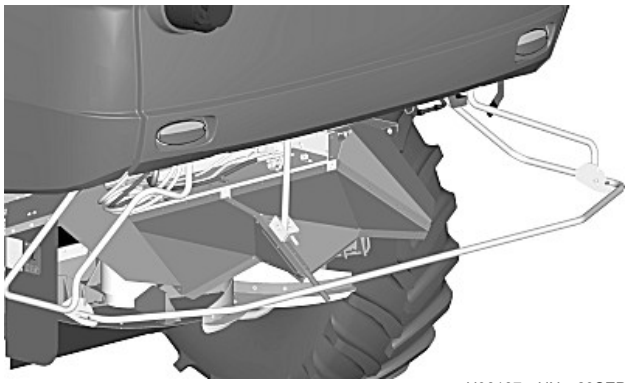
SS43267,0000592-19-26MAR15

Spreader (General Information)



H98186—UN—23SEP10

Single Speed Spreader



H98187—UN—23SEP10

Dual Speed Spreader

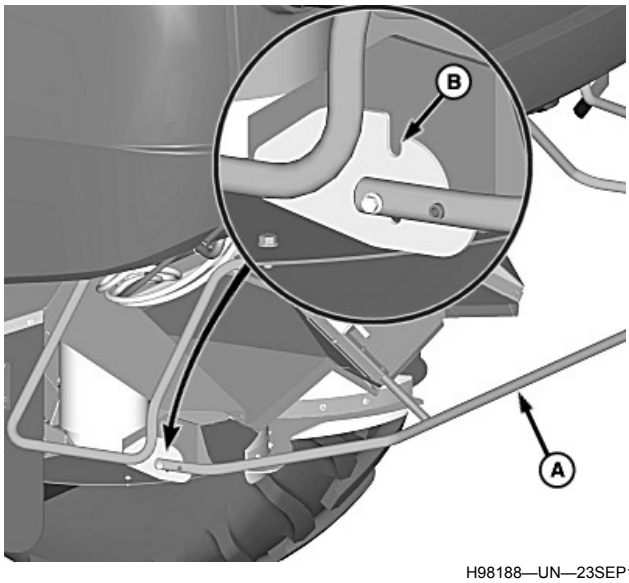
CAUTION: Do not let anyone stand behind the spreader while it is running. Shut OFF engine, set park brake and remove key before adjusting spreader.

Before performing service or maintenance on the raised spreader, fully insert lockout pin into place.

NOTE: See Residue Management Application Help or Operator's Station Help for further information.

OUO6075,000436E-19-19DEC16

Spreader—Windrow Position



H98188—UN—23SEP10

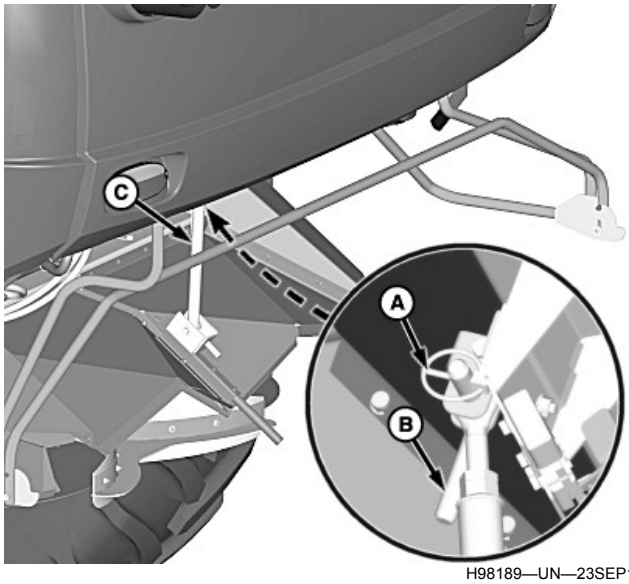
A—Spreader Hoop
B—Notch

CAUTION: Shut OFF engine, set park brake and remove key. Before performing service or maintenance on the raised spreader, fully insert lockout pin into place.

IMPORTANT: Spreader hoop MUST always be in the "down" position as shown when operating.

NOTE: Spreader can be rotated upward to allow material to discharge into a windrow pattern.

Raise spreader hoop (A) until it aligns with notch (B) when accessing or raising spreader to windrow position.

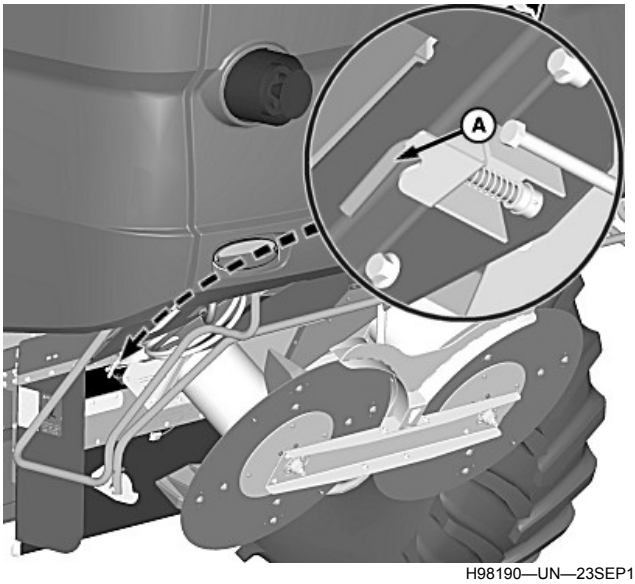


H98189—UN—23SEP10

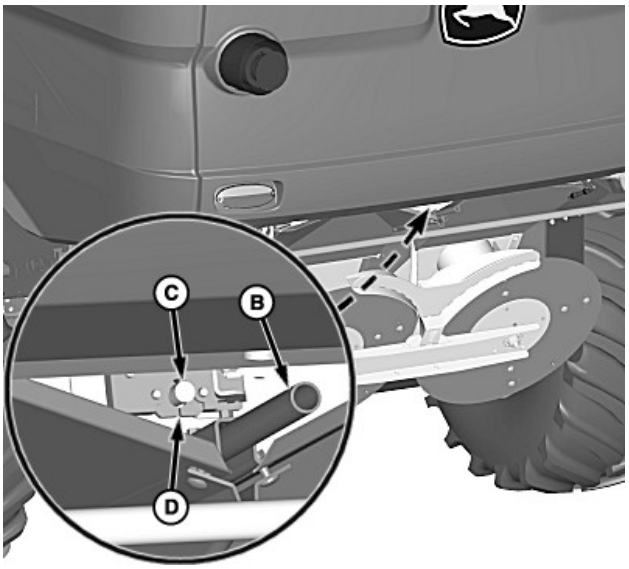
A—Quick-Lock Pin
B—Pin
C—Support Tube

Remove quick-lock pin (A) from pin (B) and lower support tube (C).

NOTE: Place pin back into storage position and retain with quick-lock pin.



H98190—UN—23SEP10



H98191—UN—23SEP10

A—Pin
B—Handle
C—Pin
D—Latch Assembly

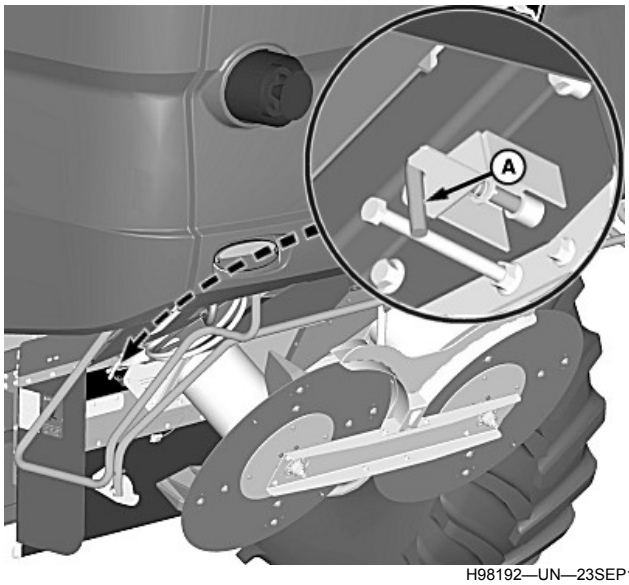
Pull pin (A) to fully raise the spreader.

Raise spreader with handle (B) until the pin (C) fully engages with latch assembly (D).

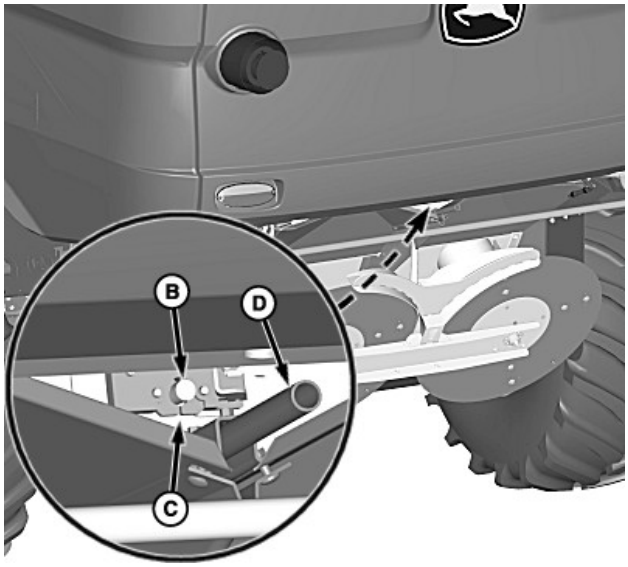
NOTE: Set Spreader speed to zero. See Residue Management Application Help or Operator's Station Help for further information.

OUO6075,000436F-19-19DEC16

Spreader—Lowering



H98192—UN—23SEP10



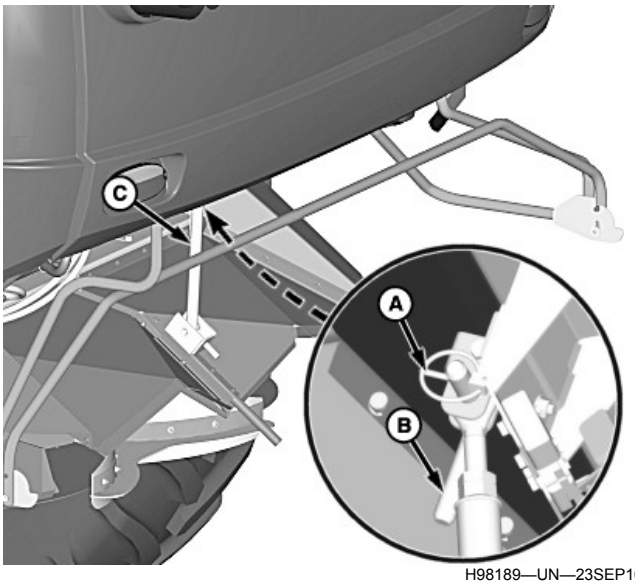
H98193—UN—23SEP10

A—Pin
B—Pin
C—Latch Assembly
D—Handle

CAUTION: Shut OFF engine, set park brake and remove key.

Rotate and place pin (A) onto the bracket to unlock the spreader.

Release pin (B) from latch assembly (C) and lower spreader with handle (D).



H98189—UN—23SEP10

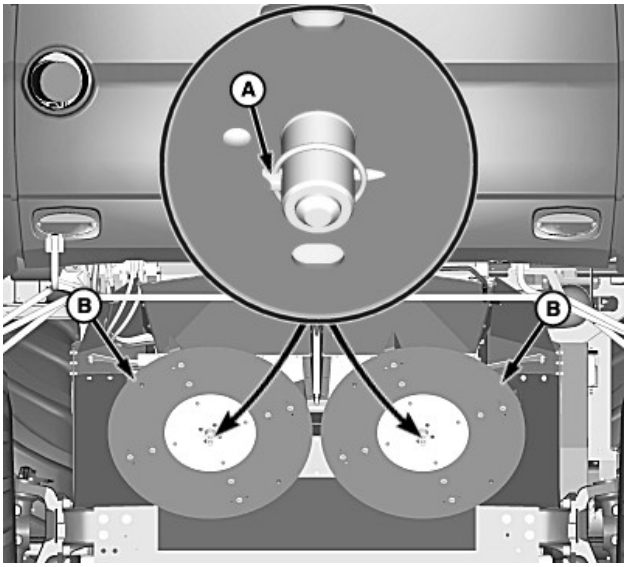
A—Quick-Lock Pin
B—Pin
C—Support Tube

Raise support tube (C) until it aligns with hole and retain with pin (B) and quick-lock pin (A).

NOTE: Increase spreader speed until desired spread width is reached. See Residue Management Application Help or Operator's Station Help for further information.

OUO6075,0004370-19-19DEC16

Spreader Disks (Single Speed)—Replacing



H98194—UN—23SEP10

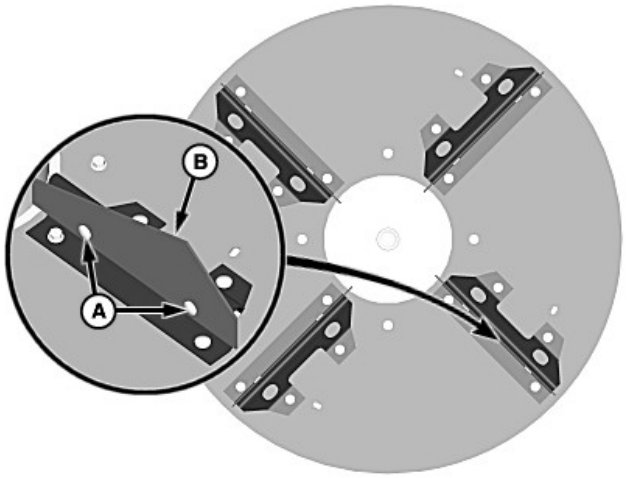
A—Quick-Lock Pin
B—Disk Assemblies

⚠ CAUTION: Disk assemblies weigh approximately 25 kg (55 lb).

IMPORTANT: Disk assemblies are left-handed and right-handed. Mark disk assembly locations before removing.

NOTE: Disk assemblies can be removed for service or to provide additional clearance under spreader.

Remove quick-lock pins (A) and disk assemblies (B).



H98197—UN—23SEP10

A—Hardware
B—Blade

IMPORTANT: When replacing worn or damaged blades, make sure to replace blades on opposite sides of disk at the same time to maintain disk rotational balance.

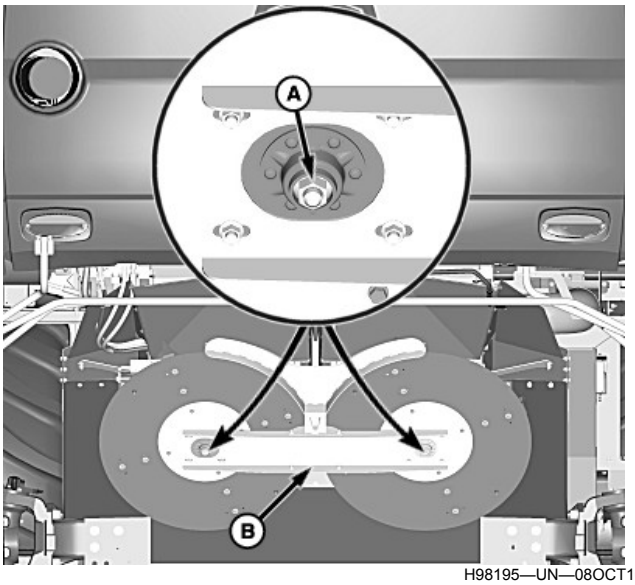
Blades are oriented in alternating hole patterns to obtain an optimum material spread. Ensure that replacement blades are put back in the same holes as previously removed.

Remove hardware (A) and blade (B).

Install replacement blades as needed and tighten hardware.

OUO6075,00009D5-19-23SEP10

Spreader Disks (Dual Speed)—Replacing



H98195—UN—08OCT10

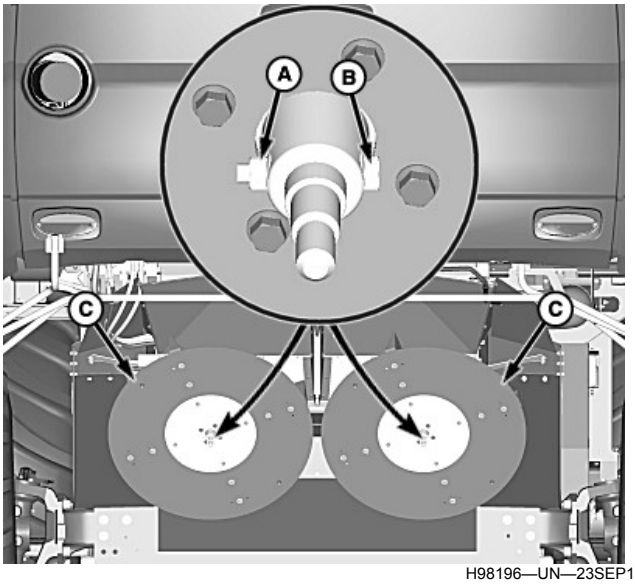
A—Nut
B—Support Shroud

⚠ CAUTION: Disk assemblies weigh approximately 25 kg (55 lb).

IMPORTANT: Disk assemblies are left-handed and right-handed. Mark disk assembly locations before removing.

NOTE: Disk assemblies can be removed for service or to provide additional clearance under spreader.

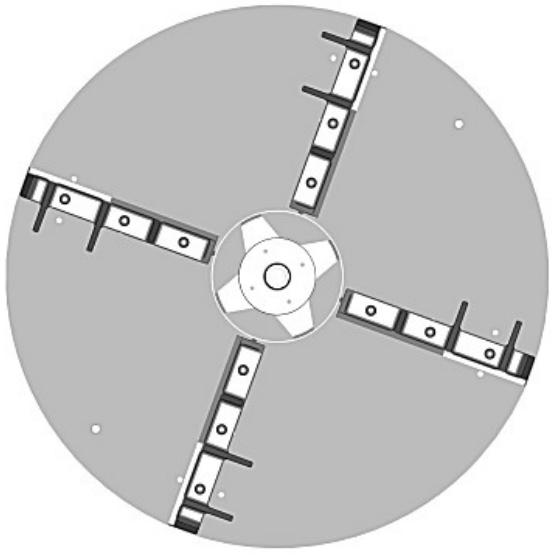
Remove nuts (A) and support shroud (B).



H98196—UN—23SEP10

A—Nut
B—Cap Screw
C—Disk Assemblies

Remove nuts (A) and cap screws (B) from disk assemblies (C).



H98198—UN—23SEP10

IMPORTANT: When replacing worn or damaged blades, make sure to replace blades on opposite sides of disk at the same time to maintain disk rotational balance.

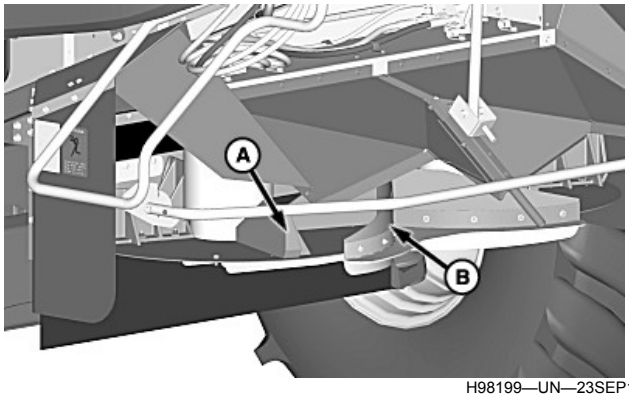
Blades are oriented in alternating hole patterns to obtain an optimum material spread. Ensure that replacement blades are put back in the same holes as previously removed.

Install replacement blades as needed and tighten hardware to specification.

Specification	
Blade Hardware—Torque	22 N·m (16 lb.-ft.)

OUO6075,00009D6-19-23SEP10

Wide Spread Straw Spreader (Optional)



H98199—UN—23SEP10

A—Blades
B—Shrouds

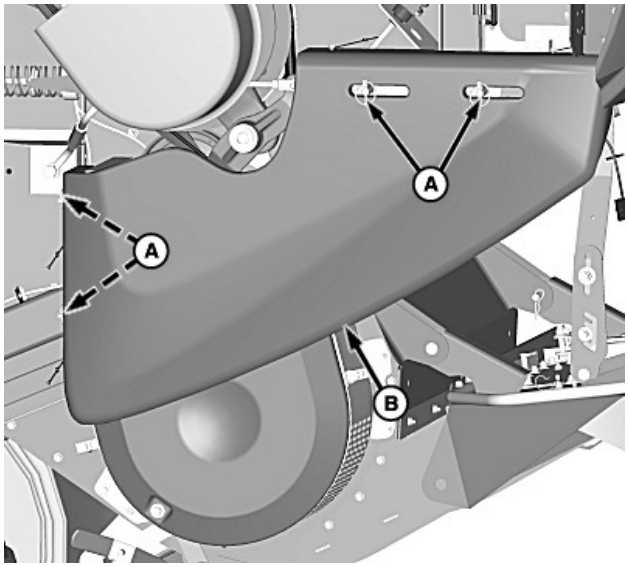
⚠ CAUTION: Do not let anyone stand behind spreader while it is running. Shut OFF engine, set parking brake and remove key before adjusting spreader.

NOTE: Shrouds should be removed when harvesting with headers smaller than 9.1 m (30 ft.) or corn heads smaller than 12 rows to provide optimal material distribution.

When straw spreader blades (A) and shrouds (B) are installed, it increases spread width and provides better material distribution for larger headers. See your John Deere dealer for further information.

OUO6075,00009D9-19-28MAR11

Chopper Drive Belt Tension—Adjusting



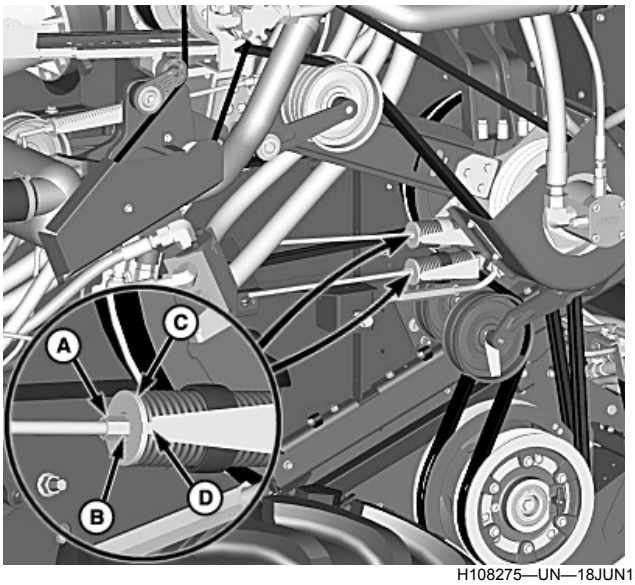
H98146—UN—21SEP10

A—Quick-Lock Pins
B—Shield

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Lower chopper fully to properly tension belts.

Remove quick-lock pins (A) and shield (B).



H108275—UN—18JUN13

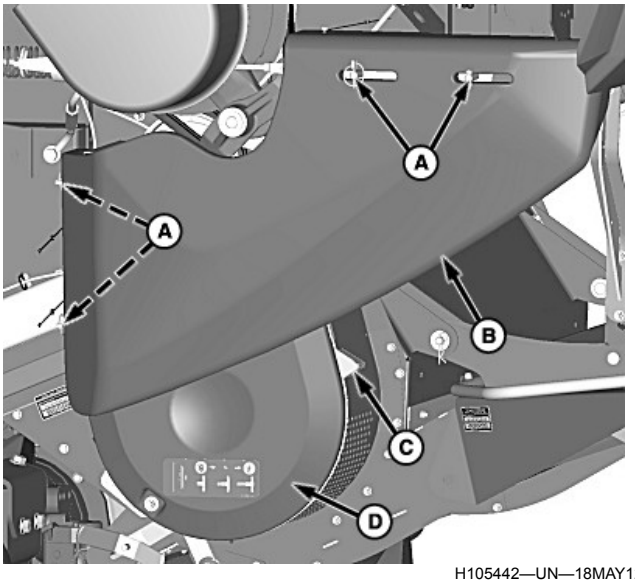
A—Lock Nut
B—Nut
C—Washer
D—Gauge

Loosen lock nut (A) and tighten nut (B) until washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

Install shield and retain with quick-lock pins.

OUO6075,00013DF-19-18JUN13

Chopper Belt—Replacing



H105442—UN—18MAY12

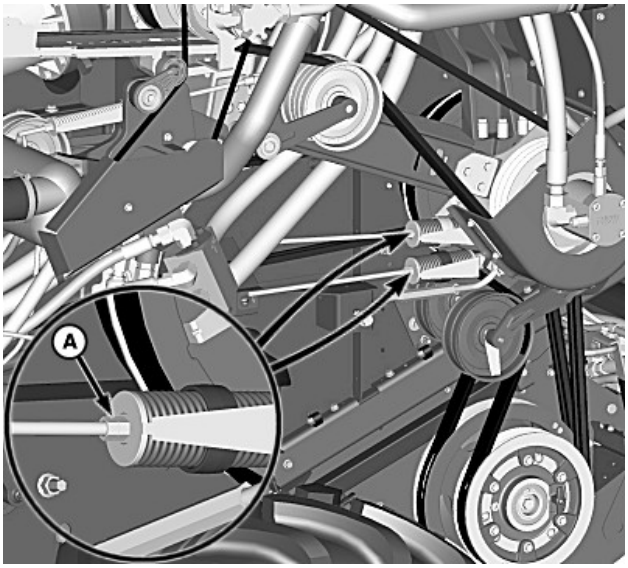
A—Quick-Lock Pins
B—Shield
C—Latch
D—Shield

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Chopper should be moved to middle position for easier belt installation.

Remove quick-lock pins (A) and shield (B).

Release latch (C) and rotate shield (D) to open.

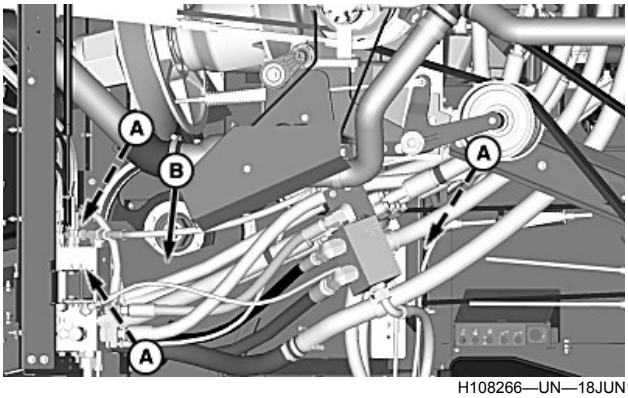


H108276—UN—18JUN13

A—Nuts

NOTE: Mark location of tensioner nuts before loosening to aid in reassembly.

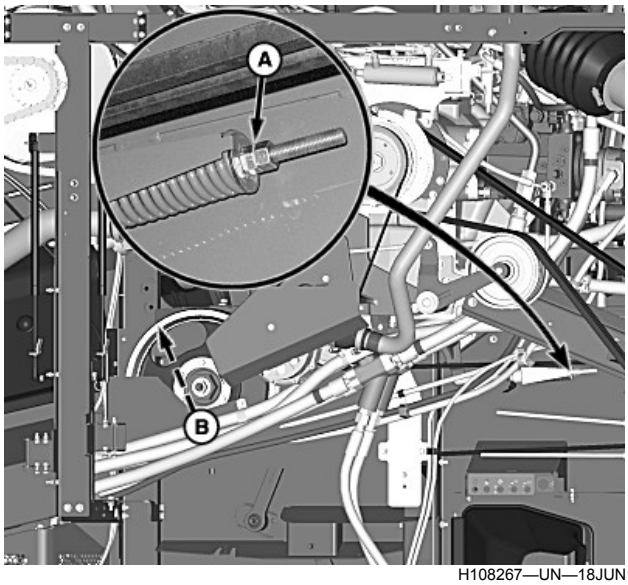
Loosen nuts (A) to relieve belt tension.



H108266—UN—18JUN13

A—Cap Screws
B—Shield

Remove cap screws (A) and shield (B).

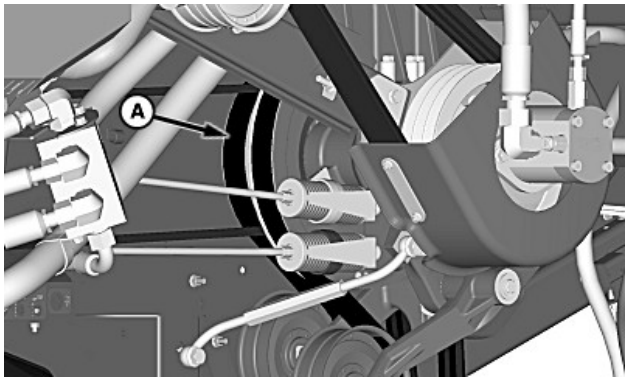


H108267—UN—18JUN13

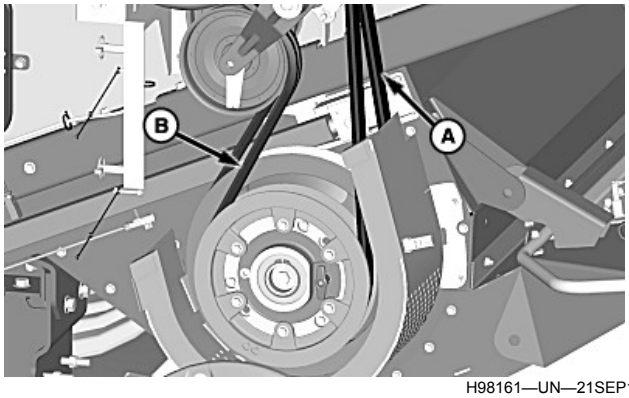
A—Nuts
B—Discharge Beater Belt

Loosen nuts (A) to relieve belt tension from discharge beater belt (B).

Inner Chopper Belt:



H107035—UN—26FEB13



H98161—UN—21SEP10

A—Inner Chopper Drive Belt
B—Outer Chopper Drive Belt

NOTE: Turn belt so it fits between sheave and sidesheet.

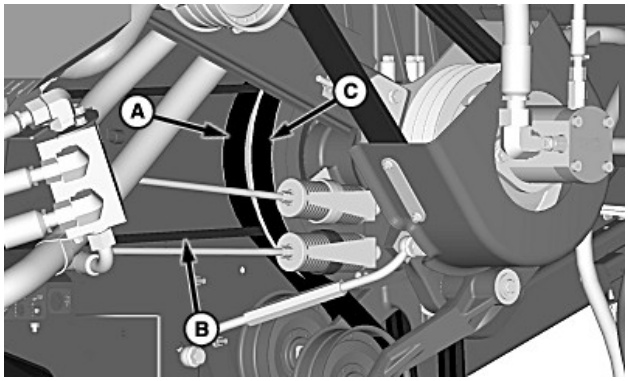
Remove inner chopper drive belt (A) from upper sheaves.

Remove outer chopper drive belt (B) from lower sheaves.

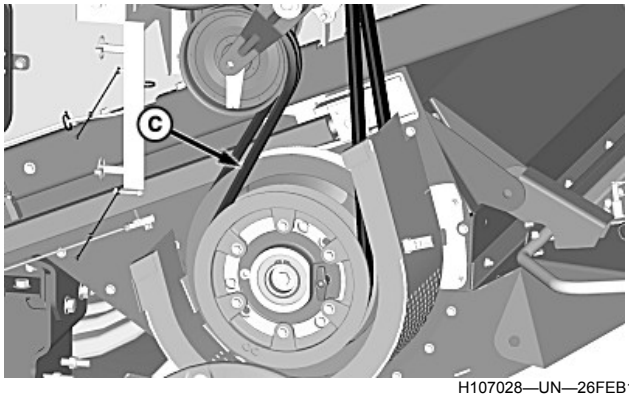
Remove inner chopper drive belt from lower sheaves.

Install replacement belt in reverse order.

Outer Chopper Belt:



H107027—UN—26FEB13



H107028—UN—26FEB13

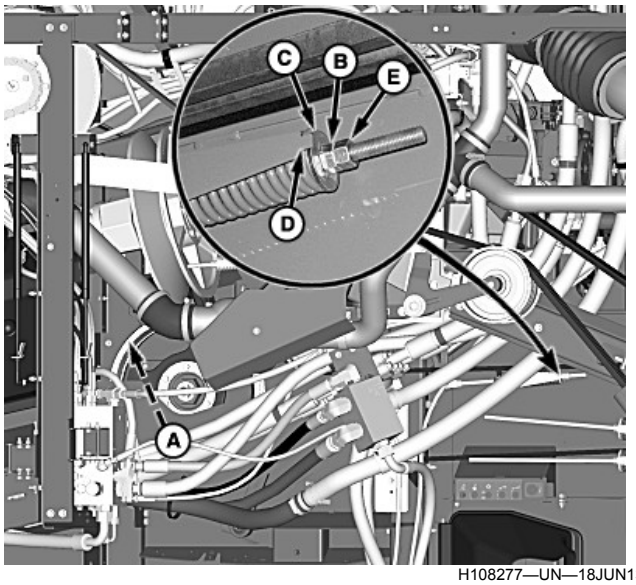
A—Inner Chopper Drive Belt
B—Discharge Beater Belt
C—Outer Chopper Drive Belt

NOTE: Turn belts so they fit between sheave and sidesheet.

Remove inner chopper drive belt (A) and discharge beater belt (B) from upper sheaves.

Remove outer chopper drive belt (C) from upper and lower sheaves.

Install replacement belt in reverse order.

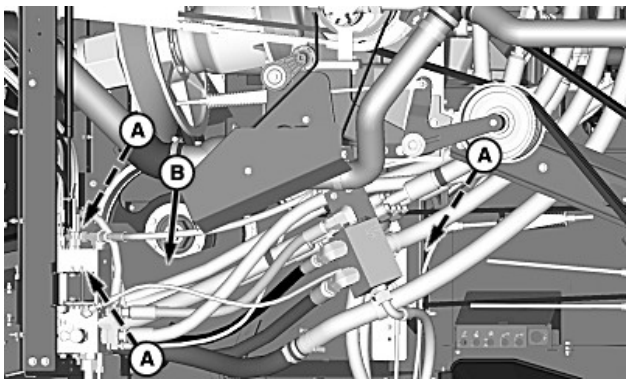


H108277—UN—18JUN13

A—Discharge Beater Belt
B—Nut
C—Washer
D—Gauge
E—Lock Nut

Install discharge beater belt (A) onto sheave.

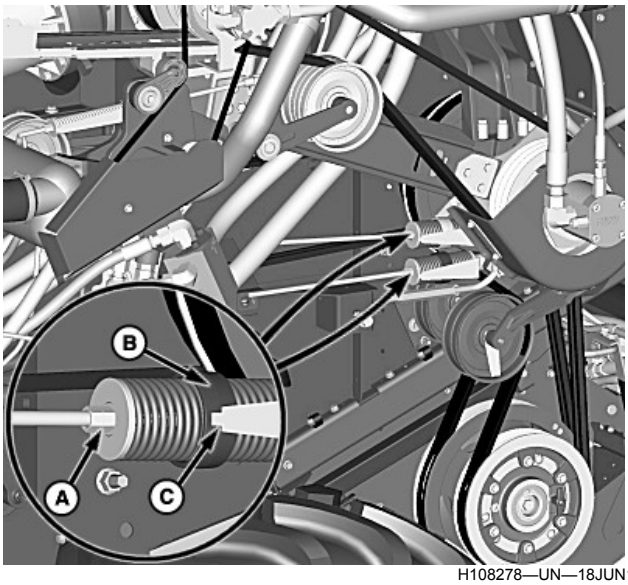
Tighten nut (B) until washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut (E).



H108266—UN—18JUN13

A—Cap Screws
B—Shield

Install shield (B) and retain with cap screws (A).

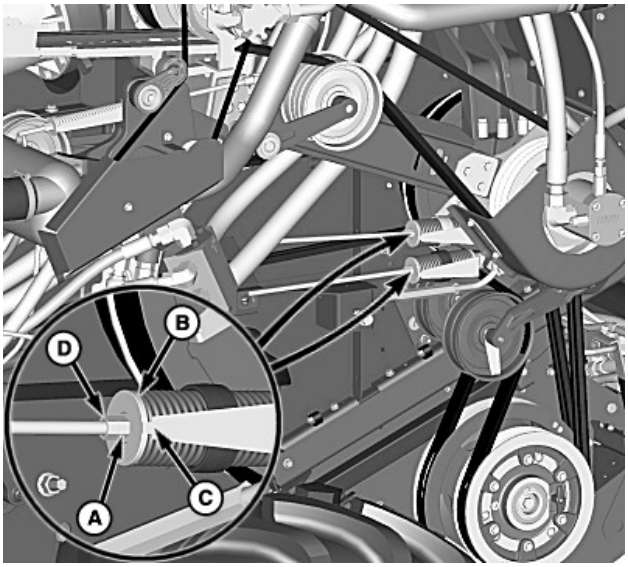


H108278—UN—18JUN13

A—Nuts
B—Spring Guide
C—Gauge

Lower chopper to middle position.

Tighten nuts (A) until spring guide (B) is at end of gauge (C) as shown.



H108279—UN—18JUN13

A—Nut
B—Washer
C—Gauge
D—Lock Nut

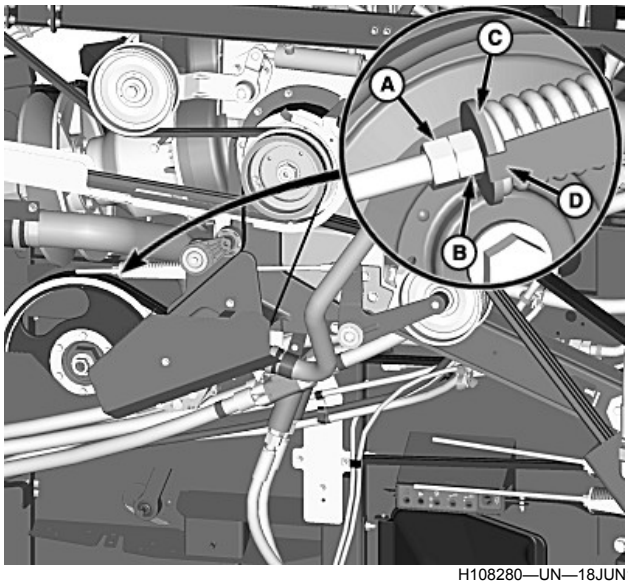
Lower chopper completely to properly tension belt.

Tighten nut (A) until washer (B) is positioned between end of gauge (C) and bottom of step. Tighten lock nut (D).

Install shield and retain with quick-lock pins.

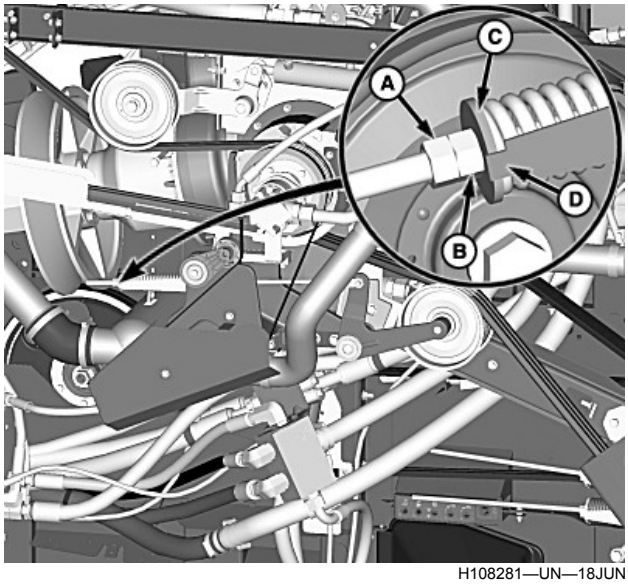
OUO6075,00013E0-19-18JUN13

Chopper Jackshaft Belt—Adjusting



H108280—UN—18JUN13

Style A



H108281—UN—18JUN13

Style B

A—Lock Nut
B—Nut
C—Washer
D—Gauge

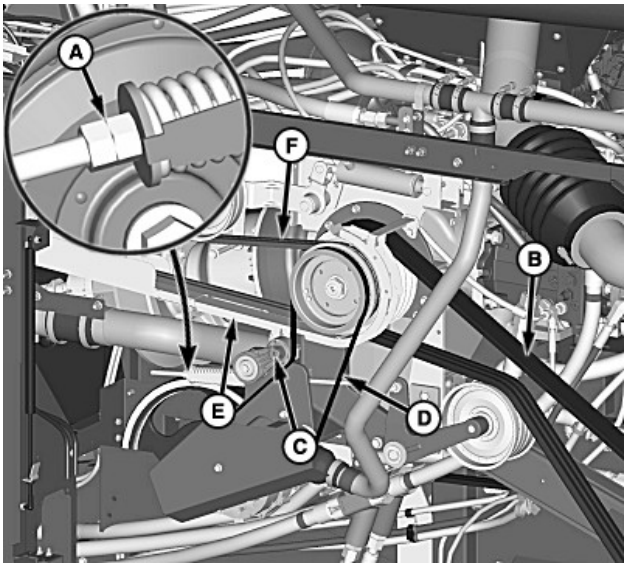
CAUTION: Shut OFF engine, set park brake and remove key.

Chopper jackshaft belt is located on the left-hand side above the chopper.

Loosen lock nut (A) and tighten nut (B) until washer (C) is positioned between end of gauge (D) and bottom of step. Tighten lock nut.

OUO6075,000436A-19-10OCT16

Chopper Jackshaft Belt—Replacing (Style A)



H108282—UN—18JUN13

A—Nuts
B—Chopper Jackshaft Belt
C—Tensioner Arm
D—Engine Debris Management Belt (If Equipped)
E—Belt Trap
F—Unloading Auger Drive Belts

CAUTION: Shut OFF engine, set park brake and remove key.

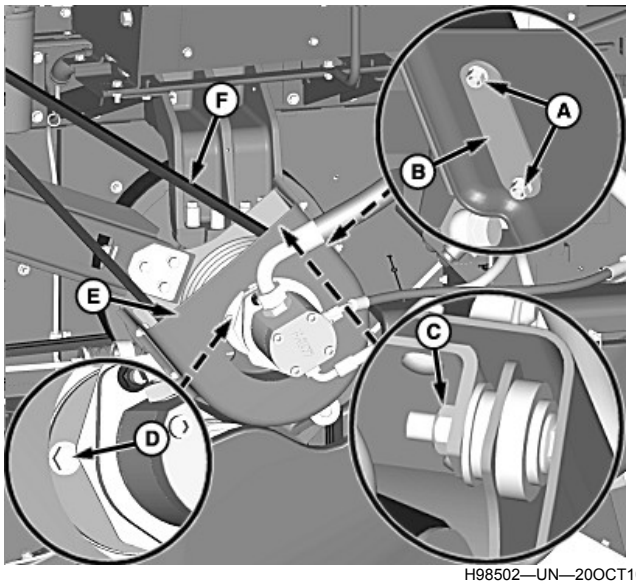
Loosen nuts (A) to relieve belt tension from the chopper jackshaft belt (B).

Use breaker bar to relieve tension from the tensioner arm (C) to remove engine debris management belt (D).

Remove cap screws from the belt trap (E).

Remove and retain unloading auger drive belts (F).

With Hydraulic Pump



H98502—UN—20OCT10

A—Hardware
B—Strap
C—Nut
D—Cap Screw (2 used)
E—Shield
F—Chopper Jackshaft Belt

Remove hardware (A) and strap (B) on both sides of shield.

Remove nut (C) from the pump assembly bracket.

NOTE: Verify that washers and isolator remain in place when removing. Install previously removed nut to retain washers and isolators in place when assembly is removed.

Remove cap screws (D) from pump assembly.

Remove shield (E) and pump assembly bracket.

Support the shield and the pump assembly bracket out of the way.

Remove jackshaft belt (F) from upper and lower sheaves.

Install replacement belt in reverse order.

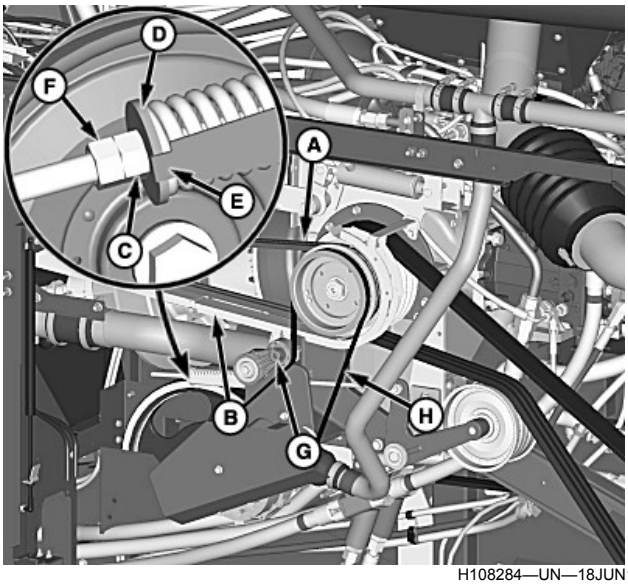
Align pump assembly with sheave and tighten cap screws to specification.

Specification	
Cap Screws—Torque	80 N·m (59 lb·ft)

NOTE: Align shaft key on pump assembly with keyway in sheave. Verify that washers and isolators remain in place on the pump assembly bracket.

Install shield and pump assembly bracket and retain with nut.

Install strap on both sides of shield and retain with hardware.



H108284—UN—18JUN13

A—Unloading Auger Drive Belts
B—Belt Trap
C—Nut
D—Washer
E—Gauge
F—Lock Nut
G—Tensioner Arm
H—Engine Debris Management Belt (If Equipped)

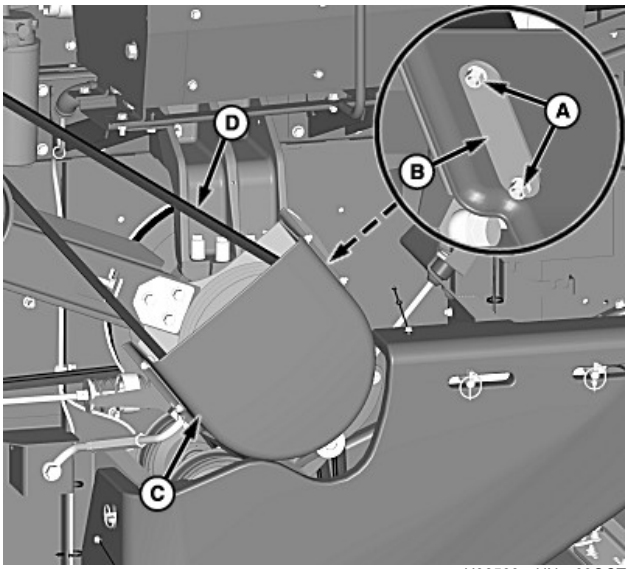
Install unloading auger drive belts (A).

Install belt trap (B) and retain with cap screws.

Tighten nut (C) until washer (D) is positioned between end of gauge (E) and bottom of step. Tighten lock nut (F).

Use breaker bar to relieve tension from the tensioner arm (G) to install engine debris management belt (H).

Without Hydraulic Pump



H98500—UN—08OCT10

A—Hardware
B—Strap
C—Shield
D—Chopper Jackshaft Belt

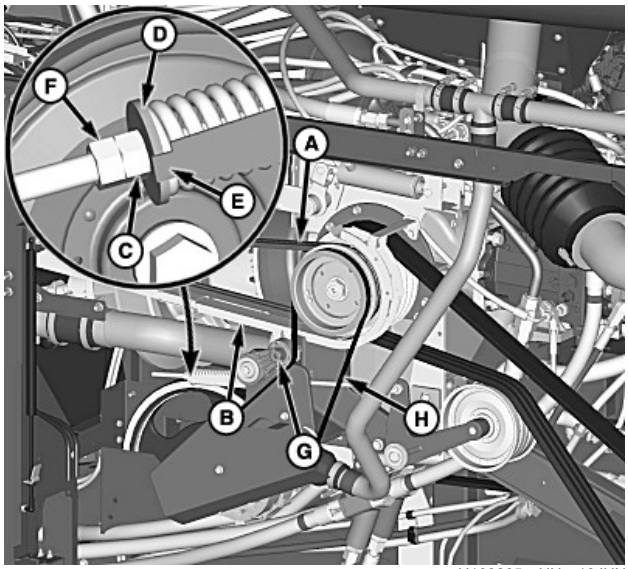
Remove hardware (A) and strap (B) on both sides of shield (C).

Remove jackshaft belt (D) from upper and lower sheaves.

Install replacement belt in reverse order.

Align shield with the bracket holes.

Install strap on both sides of shield and retain with hardware.



H108285—UN—18JUN13

A—Unloading Auger Drive Belts
B—Belt Trap
C—Nut
D—Washer
E—Gauge
F—Lock Nut
G—Tensioner Arm
H—Engine Debris Management Belt (If Equipped)

Install unloading auger drive belts (A).

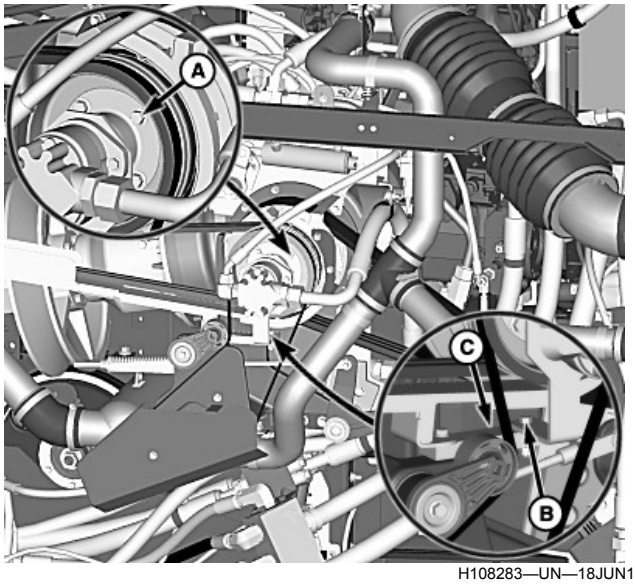
Install belt trap (B) and retain with cap screws.

Tighten nut (C) until washer (D) is positioned between end of gauge (E) and bottom of step. Tighten lock nut (F).

Use breaker bar to relieve tension from the tensioner arm (G) to install engine debris management belt (H).

OUO6075,0004680-19-11APR17

Chopper Jackshaft Belt—Replacing (Style B)



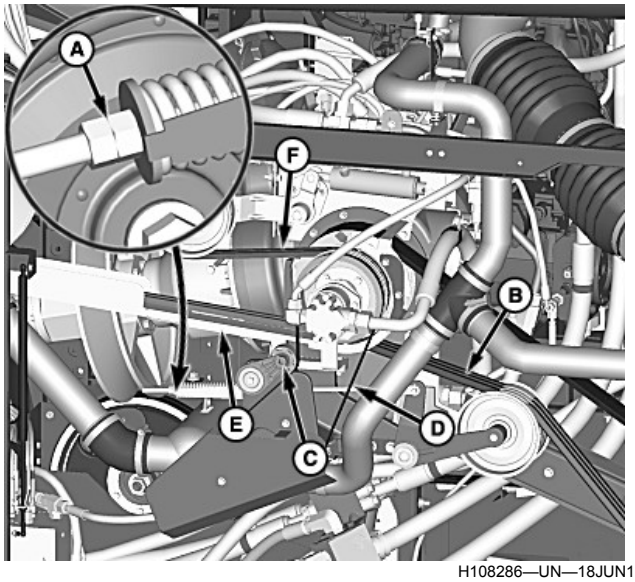
H108283—UN—18JUN13

A—Cap Screw (4 used)
B—Hardware
C—Isolator Strap

CAUTION: Shut OFF engine, set park brake and remove key.

Remove cap screws (A) and hardware (B) from isolator strap (C).

Remove pump assembly and support out of the way.



H108286—UN—18JUN13

A—Nuts
B—Chopper Jackshaft Belt
C—Tensioner Arm
D—Engine Debris Management Belt (If Equipped)
E—Belt Trap
F—Unloading Auger Drive Belts

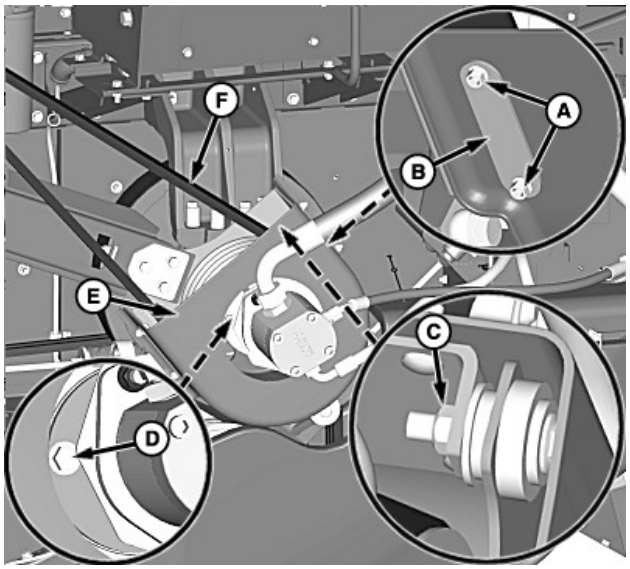
Loosen nuts (A) to relieve belt tension from the chopper jackshaft belt (B).

Use breaker bar to relieve tension from the tensioner arm (C) to remove engine debris management belt (D).

Remove cap screws from the belt trap (E).

Remove and retain unloading auger drive belts (F).

With Hydraulic Pump



H98502—UN—20OCT10

A—Hardware
B—Strap
C—Nut
D—Cap Screw (2 used)
E—Shield
F—Chopper Jackshaft Belt

Remove hardware (A) and strap (B) on both sides of shield.

Remove nut (C) from the pump assembly bracket.

NOTE: Verify that washers and isolator remain in place when removing. Install previously removed nut to retain washers and isolators in place when assembly is removed.

Remove cap screws (D) from pump assembly.

Remove shield (E) and pump assembly bracket.

Support the shield and the pump assembly bracket out of the way.

Remove jackshaft belt (F) from upper and lower sheaves.

Install replacement belt in reverse order.

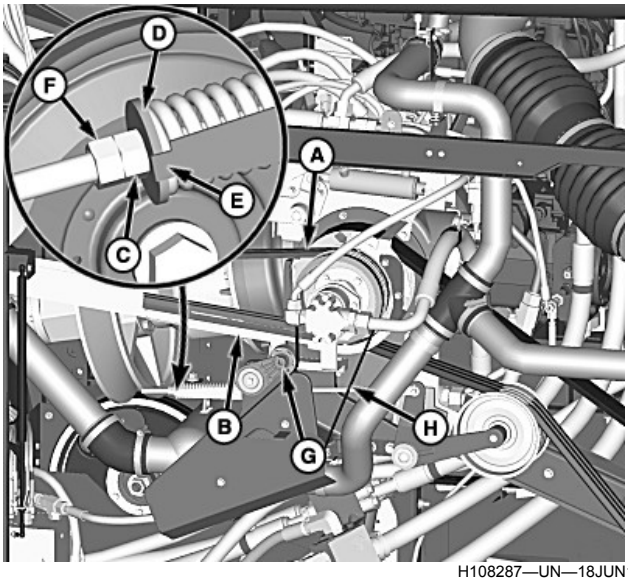
Align pump assembly with sheave and tighten cap screws to specification.

Specification	
Cap Screws—Torque	80 N·m (59 lb·ft)

NOTE: Align shaft key on pump assembly with keyway in sheave. Verify that washers and isolators remain in place on the pump assembly bracket.

Install shield and pump assembly bracket and retain with nut.

Install strap on both sides of shield and retain with hardware.



H108287—UN—18JUN13

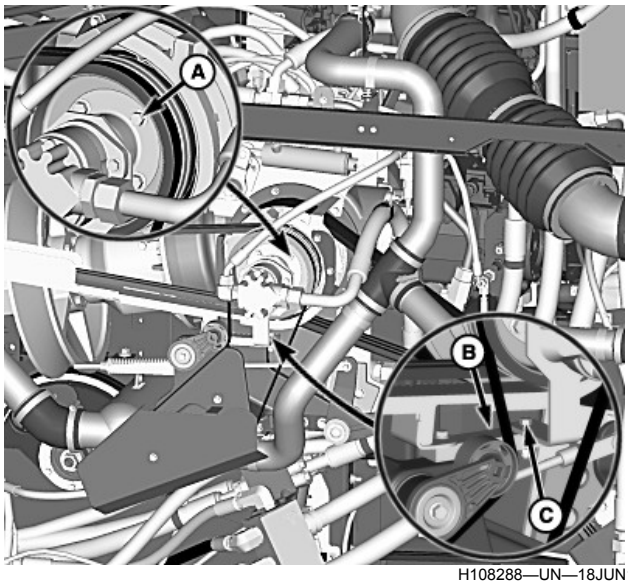
A—Unloading Auger Drive Belts
B—Belt Trap
C—Nut
D—Washer
E—Gauge
F—Lock Nut
G—Tensioner Arm
H—Engine Debris Management Belt (If Equipped)

Install unloading auger drive belts (A).

Install belt trap (B) and retain with cap screws.

Tighten nut (C) until washer (D) is positioned between end of gauge (E) and bottom of step. Tighten lock nut (F).

Use breaker bar to relieve tension from the tensioner arm (G) to install engine debris management belt (H).



H108288—UN—18JUN13

A—Cap Screw (4 used)
B—Isolator Strap
C—Hardware

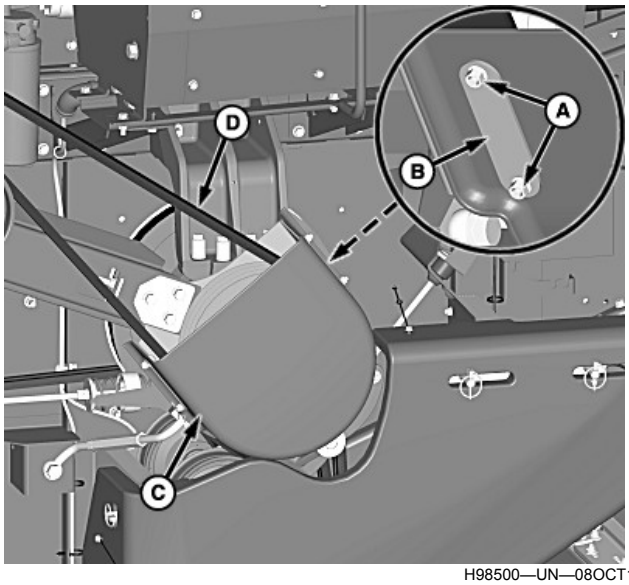
Align pump assembly with sheave and tighten cap screws (A) to specification.

Specification

Cap Screws—Torque. . . . . 80 N·m (59 lb·ft)

Install isolator strap (B) and retain with hardware (C).

Without Hydraulic Pump



H98500—UN—08OCT10

A—Hardware
B—Strap
C—Shield
D—Chopper Jackshaft Belt

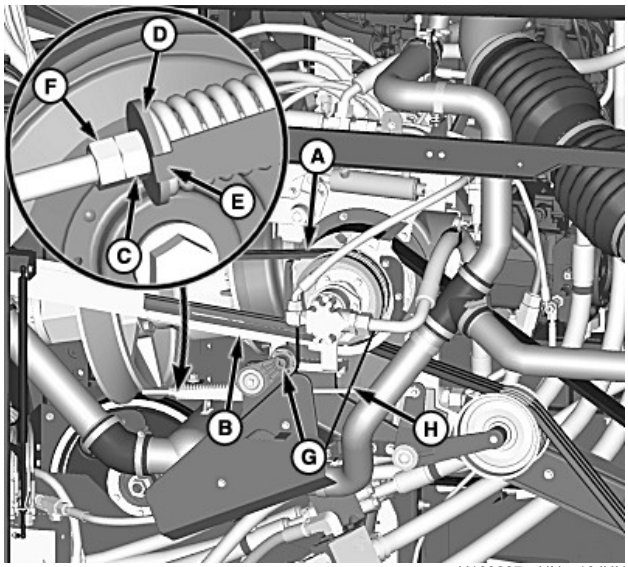
Remove hardware (A) and strap (B) on both sides of shield (C).

Remove jackshaft belt (D) from upper and lower sheaves.

Install replacement belt in reverse order.

Align shield with the bracket holes.

Install strap on both sides of shield and retain with hardware.



H108287—UN—18JUN13

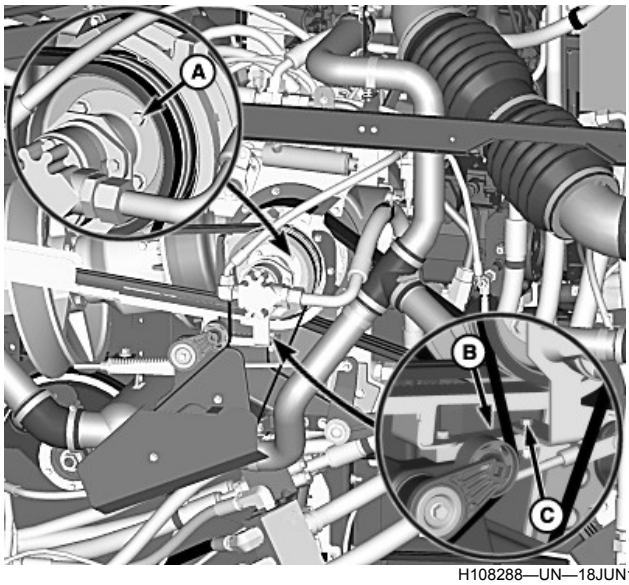
A—Unloading Auger Drive Belts
B—Belt Trap
C—Nut
D—Washer
E—Gauge
F—Lock Nut
G—Tensioner Arm
H—Engine Debris Management Belt (If Equipped)

Install unloading auger drive belts (A).

Install belt trap (B) and retain with cap screws.

Tighten nut (C) until washer (D) is positioned between end of gauge (E) and bottom of step. Tighten lock nut (F).

Use breaker bar to relieve tension from the tensioner arm (G) to install engine debris management belt (H).



H108288—UN—18JUN13

A—Cap Screw (4 used)
B—Isolator Strap
C—Hardware

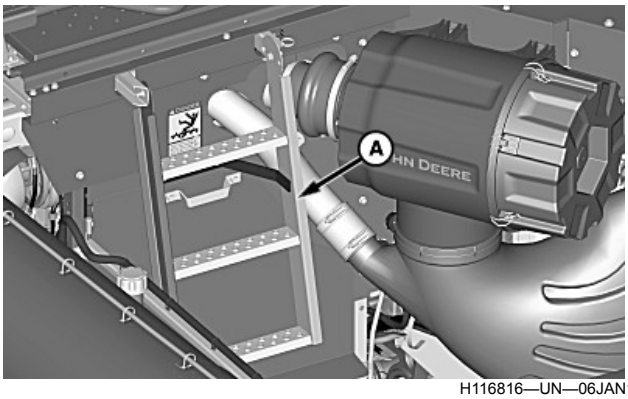
Align pump assembly with sheave and tighten cap screws (A) to specification.

Specification	
Cap Screws—Torque	80 N·m (59 lb·ft)

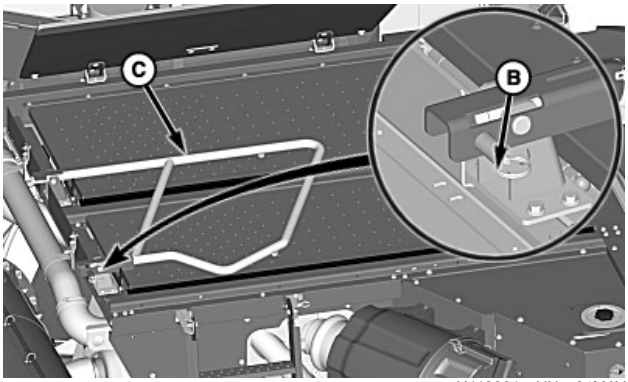
Install isolator strap (B) and retain with hardware (C).

OUO6075,0004681-19-11APR17

Grain Tank/Engine Ladder



H116816—UN—06JAN16



H118331—UN—04MAY16

A—Ladder
B—Lockout Pin
C—Handrail

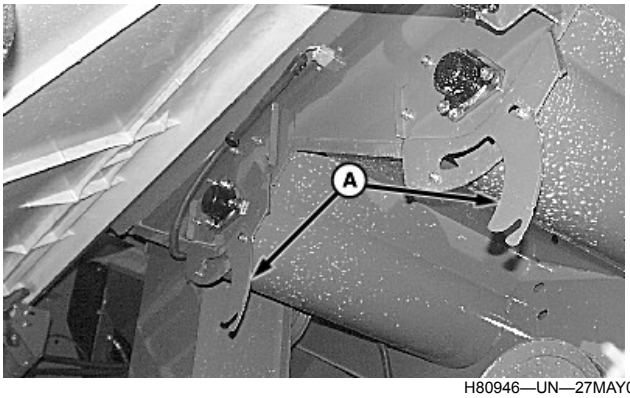
CAUTION: Shut OFF engine, set park brake and remove key.

Use ladder (A) to access grain tank.

Pull lockout pin (B) and rotate handrail (C) up until handrail locks into place.

OUO6075,00041C2-19-04MAY16

Grain Tank Drain Holes



H80946—UN—27MAY04

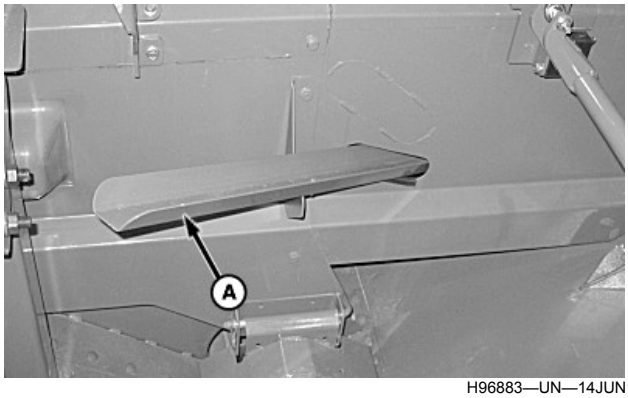
A—Drain Hole Doors

Grain tank drain hole doors (A) are on the right-hand end of both cross augers and must be opened during storage or for cleaning grain tank.

Loosen cap screws and slide doors away from drain holes.

OUO6075,0004360-19-07OCT16

Grain Tank Sample Trough



H96883—UN—14JUN10



H96884—UN—14JUN10

A—Sample Trough
B—Door

Grain tank sample trough (A) allows operator to take a sample of the harvested crop from the loading auger without entering the grain tank.

With machine full of the harvested crop, move multi-function lever to neutral position and set the park brake.

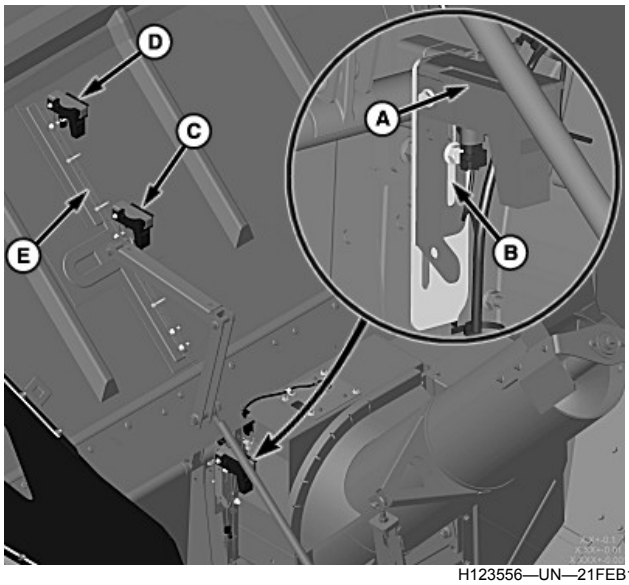
Disengage header, but leave separator engaged.

CAUTION: Do not have a second person check for a grain tank sample.

Open door (B). Lower end of the grain tank trough spills off a sample of the harvested crop.

OUO6075,0004361-19-10JAN17

Grain Tank Fill Sensors—Adjusting



H123556—UN—21FEB18

A—3/4 Full Sensor
B—Slot
C—3/4 Full Sensor (Optional Location)
D—4/4 Full Sensor
E—Holes

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Header drive must be engaged for the buzzer to sound.

Grain Tank 3/4 Full Sensor:

3/4 full sensor (A) is on the front side of the clean grain loading auger or on the right-hand grain tank cover. If operating in low flow crop conditions, grain tank sensor (C) can be moved to bottom hole on right-hand grain tank cover.

Adjust sensor by moving it higher or lower in slot (B) or holes (E) to adjust switch "trip" point. The higher the sensor is positioned, the fuller the grain tank is when the buzzer sounds.

Grain tank 3/4 full icon appears on display when grain reaches the sensor.

When grain tank is 3/4 full, beacon lights illuminate to provide a signal to the grain cart operator that grain tank is nearly full.

Grain Tank 4/4 Full Sensor:

Grain tank 4/4 full sensor (D) is on the right-hand grain tank extension or grain tank cover.

Grain tank 4/4 full icon appears on display when grain reaches the sensor.

Adjust sensor by moving it higher or lower in holes (E) to adjust switch "trip" point. The higher the sensor is positioned, the fuller the grain tank is when the buzzer sounds.

OUO6075,00048B8-19-21FEB18

Grain Tank Covers (If Equipped)—Operating



H96897—UN—15JUN10



H115016—UN—22MAR16

Folding Button

CAUTION: Grain tank covers must be closed and antenna retained with hook on cab roof before transporting machine on roadway. Avoid contact with low hanging power lines and tree limbs.

IMPORTANT: Grain tank must be empty before folding grain tank covers.

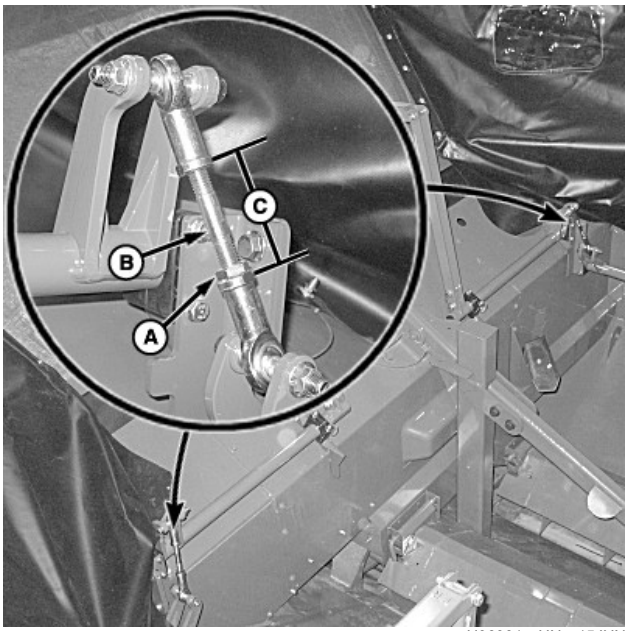
NOTE: Grain tank covers must be opened all the way in order to engage separator.

Clean grain loading auger rises when grain tank covers are opened. Auger swings down when covers are closed.

Press folding button on navigation bar. See Folding Application Help or Operator's Station Help for further information on raising or lowering grain tank covers.

OUO6075,0004373-19-25JAN17

Grain Tank Covers (If Equipped)—Adjusting



H96901—UN—15JUN10

A—Nut
B—Bolt
C—Nominal Distance, 64 mm (2-1/2 in.)

NOTE: Only adjust turnbuckles on left-hand side of machine. Turnbuckles on right-hand side of machine are not adjustable.

Raise grain tank covers fully.

Loosen nut (A) and adjust bolt (B) until a nominal distance (C) is achieved between turnbuckle ends as shown.

NOTE: Increasing turnbuckle distance increases clearance between left cover and front/rear covers.

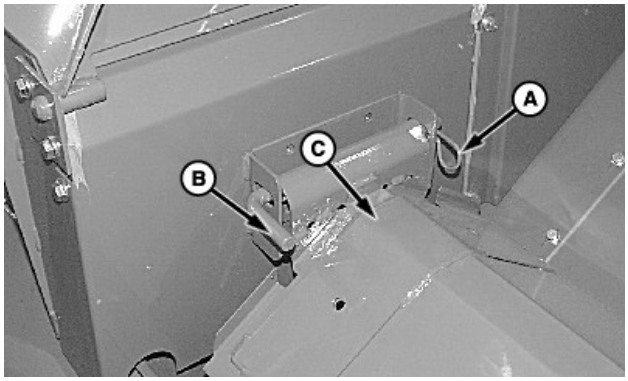
Decreasing turnbuckle distance decreases clearance between left cover and front/rear covers.

Tighten nut when distance is achieved.

Repeat as needed on remaining turnbuckle.

OUO6075,00007F0-19-21OCT10

Grain Tank Cross Auger Covers



H80947—UN—27MAY04

A—Locking Pins
B—Pins
C—Auger Covers

CAUTION: Shut OFF engine, set parking brake and remove key.

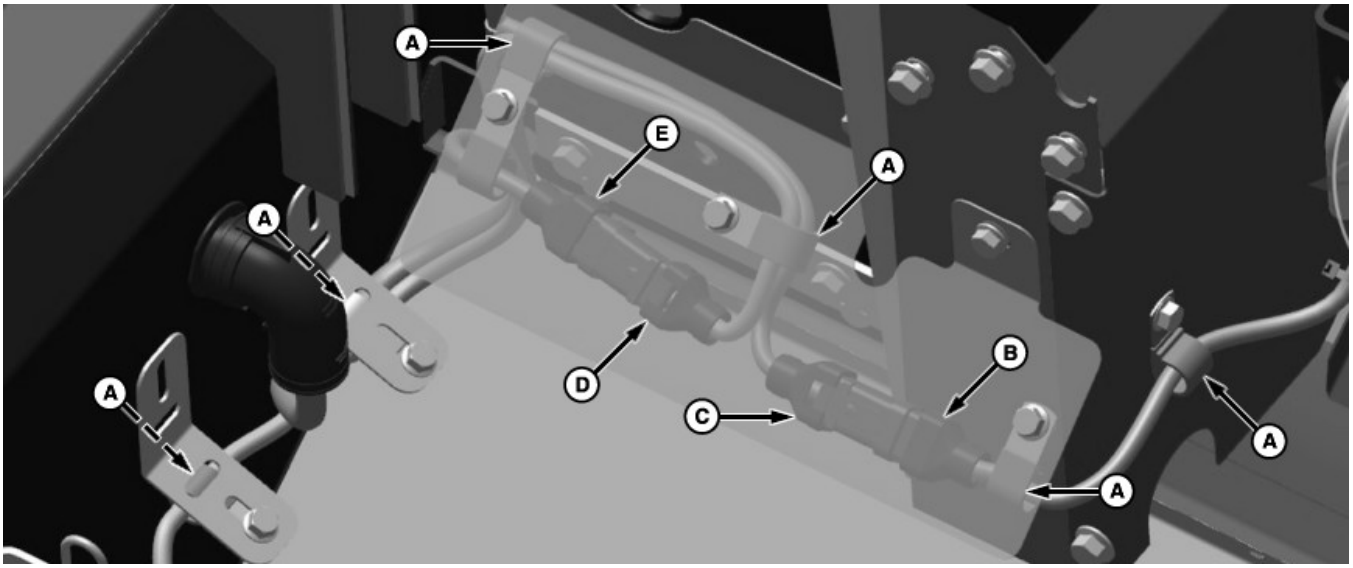
Remove locking pins (A) and pins (B) holding ends of auger cover (C) to grain tank. Hold cover in desired position and install previously removed pins and locking pins.

Covers should be level and mounted so each cover is the same distance from auger over entire length.

NOTE: Set auger covers to top position for all crops.

OUO6075,0000A46-19-27OCT10

ActiveYield™ (If Equipped) Cross Auger Covers—Removing



H115578—UN—25AUG15

A—Clamps
B—Rear Cross Auger Connector (Female Connector)
C—Grain Tank Connector (Male Connector)
D—Front Cross Auger Connector (Male Connector)
E—Grain Tank Connector (Female Connector)

CAUTION: Shut OFF engine, set park brake and remove key.

IMPORTANT: Use extra care when removing and installing auger covers. Do not stand on, drop or allow objects to fall onto sensors.

NOTE: In certain crop conditions and speciality crops, cross auger covers need to be removed.

ActiveYield™ system MUST be disabled when cross auger covers are removed. See Calibrations Application Help or Operator's Station Help for further information.

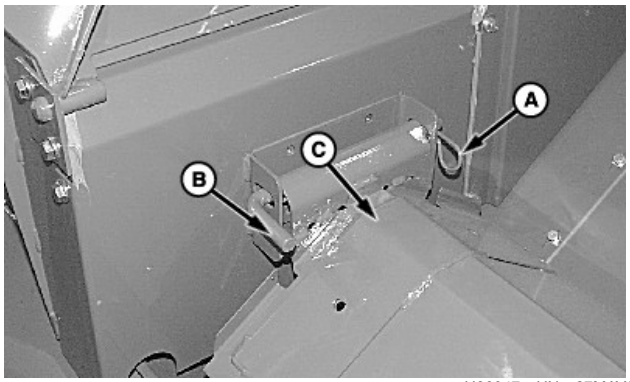
Remove wiring harnesses from clamps (A) as needed.

Disconnect rear cross auger connector (B) from the grain tank connector (C).

Disconnect front cross auger connector (D) from the grain tank connector (E).

Connect grain tank connectors (C and E) together and retain with clamps as needed.

IMPORTANT: Connect harnesses together to enable yield monitoring even if ActiveYield™ is disabled. Retain harnesses with clamps to prevent contact with cross augers.



H80947—UN—27MAY04

A—Locking Pin (4 used)
B—Pin (4 used)
C—Auger Cover (2 used)

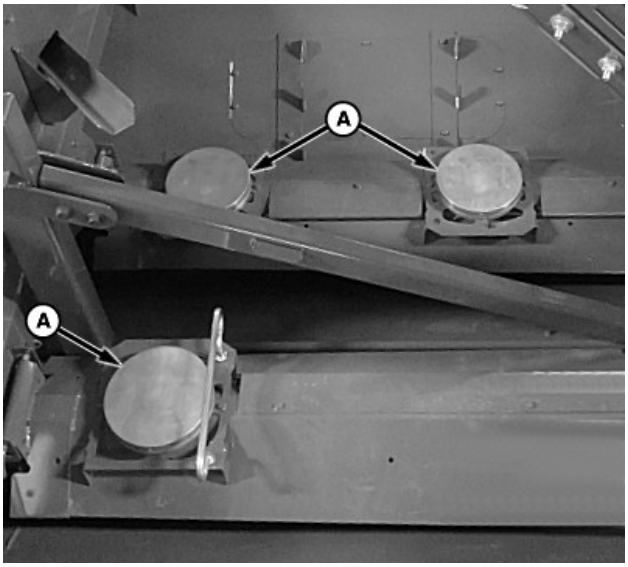
Remove locking pin (A) and pin (B) from both ends of auger cover (C).

Remove auger cover from the machine and repeat on remaining auger cover.

OUO6075,00045F7-19-22FEB17

ActiveYield is a trademark of Deere & Company

ActiveYield™ (If Equipped) Sensor Locations



H115545—UN—20AUG15

A—Sensors

IMPORTANT: Do not stand on, drop or allow objects to fall onto sensors as damage could occur.

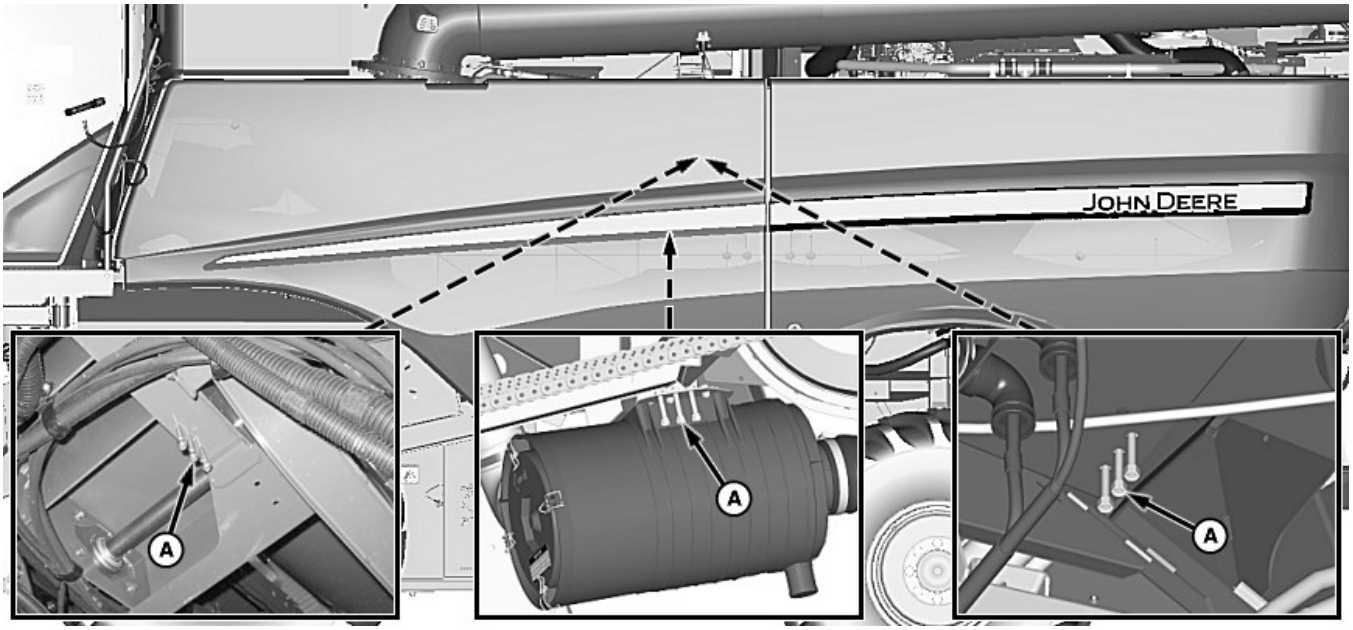
NOTE: Two sensors are on the front cross auger cover and one sensor is on the rear cross auger cover.

ActiveYield™ uses sensors (A) located in the grain tank on the cross auger covers to measure mass of harvested grain.

OUO6075,00045F8-19-22FEB17

ActiveYield is a trademark of Deere & Company

Shear Bolt Location



H111120—UN—17APR14

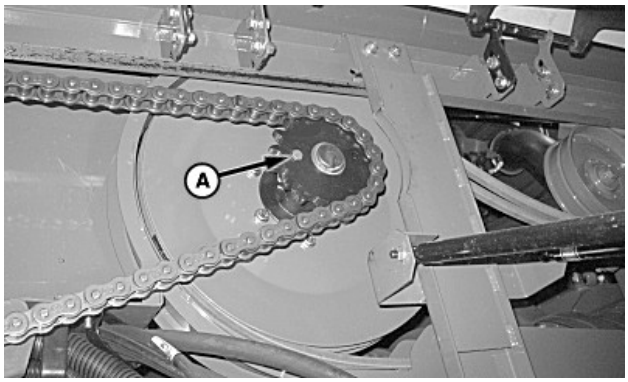
A—Shear Bolt (3 Used)

NOTE: Three extra shear bolts are provided. Locations vary depending on engine size, engine emission levels, and grain tank unload rate.

If unloading auger drive shear bolt breaks, remove and replace with extra shear bolt (A) from location shown.

OUO6075,00017C7-19-17APR14

Unloading Auger Drive Shear Bolt



H96888—UN—14JUN10

A—Shear Bolt

CAUTION: Shut OFF engine, set park brake and remove key.

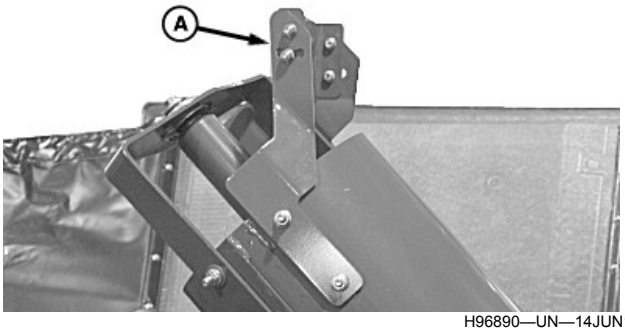
Use only John Deere supplied shear bolt (A) (cap screw through hub), see your John Deere dealer for replacement shear bolts.

Extra shear bolts are provided on machine. Refer to Shear Bolt Location in this section for further information.

IMPORTANT: Do not install a tire inner tube or a sack to end of unloading auger. Any restriction at end of auger can cause damage to unloading auger system and could cause shear bolt failure.

OUO6075,00017C6-19-16APR14

Grain Tank Loading Auger Deflector



H96890—UN—14JUN10

A—Deflector

CAUTION: Shut OFF engine, set park brake and remove key.

Position deflector (A) as needed.

Counterclockwise rotation:

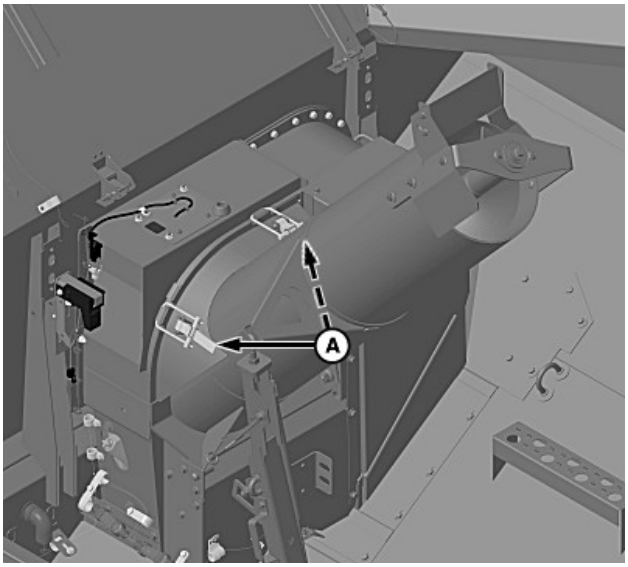
- Windy conditions when harvesting crops like grass seed or rape.
- Corn—Grain tank fills to the left and to the rear.

Clockwise rotation:

- Grain—Grain tank fills to the right and to the front.

OUO6075,0004362-19-07OCT16

Grain Tank Loading Auger (Grain Tank Extensions)—Folding



H123557—UN—21FEB18

A—Clamps

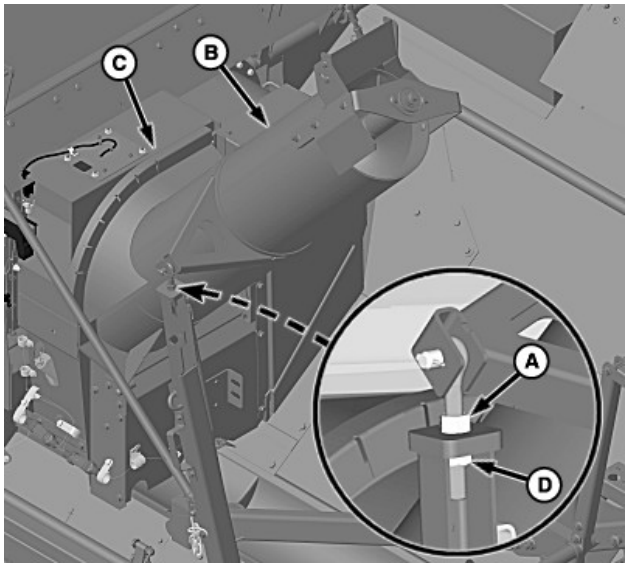
CAUTION: Grain tank loading auger is heavy. Use extra care when raising or lowering auger.

Overall height of the machine is reduced by 0.5 m (1-1/2 ft) when grain tank extensions are lowered.

Hold the top of the auger and release clamps (A). Lower auger onto cross auger cover.

OUO6075,00048B9-19-21FEB18

Grain Tank Loading Auger (Grain Tank Covers)—Adjusting



H123558—UN—21FEB18

A—Nut
B—Grain Tank Loading Auger
C—Transition Housing
D—Nut

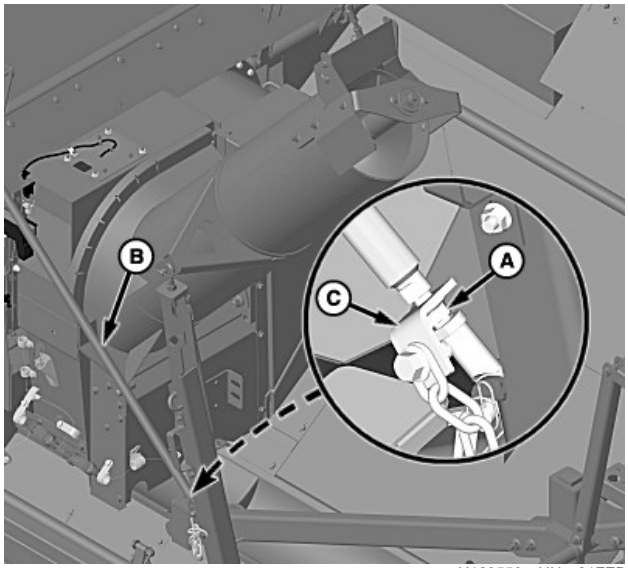
CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Verify that the grain tank covers are fully raised.

Adjust nut (A) until grain tank loading auger (B) contacts transition housing (C).

Adjust nut (A) an extra 1/2 turn and tighten the nut (D) to lock the eyebolt in place.

NOTE: This keeps the loading auger housing tight against the transition housing making sure the loading auger is fully engaged to the driver on the gearbox.



H123559—UN—21FEB18

A—Nut
B—Turnbuckle
C—Bracket

Loosen nut (A) and adjust the turnbuckle (B) until a slight amount of resistance is felt on the turnbuckle.

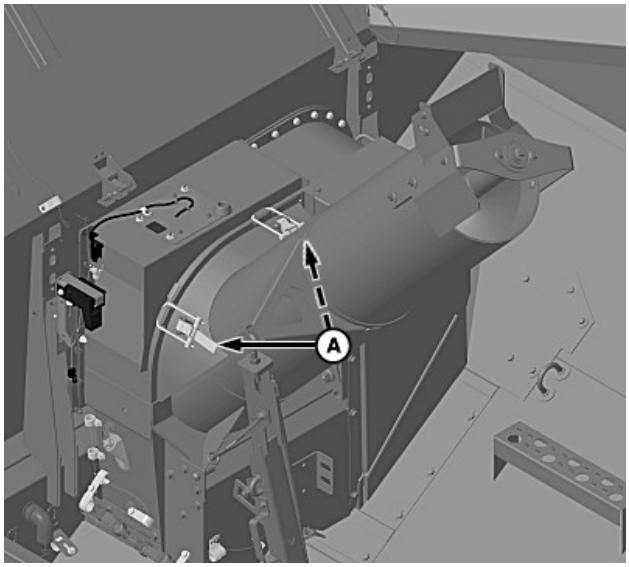
NOTE: Lengthen or shorten the turnbuckle to increase or decrease the gap between the loading auger housing and the transition housing.

The pin at the end of the turnbuckle should rotate freely when properly adjusted.

Verify that bracket (C) faces towards the front of the machine and tighten nut (A) to lock the turnbuckle (B) in place.

OUO6075,00048BA-19-22FEB18

Mass Flow Sensor Plate (Grain Tank Extensions)—Cleaning



H123557—UN—21FEB18

A—Clamps

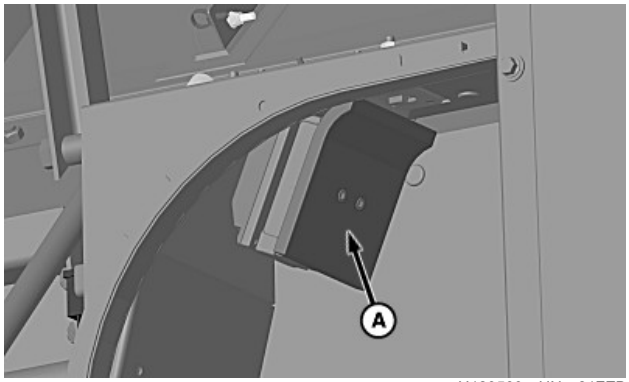
CAUTION: Shut OFF engine, set park brake and remove key.

Grain tank loading auger is heavy. Use extra care when raising or lowering auger.

Remove the grain tank sample trough (if equipped).

Hold the top of the grain tank loading auger and release clamps (A).

Lower grain tank loading auger.



H123560—UN—21FEB18

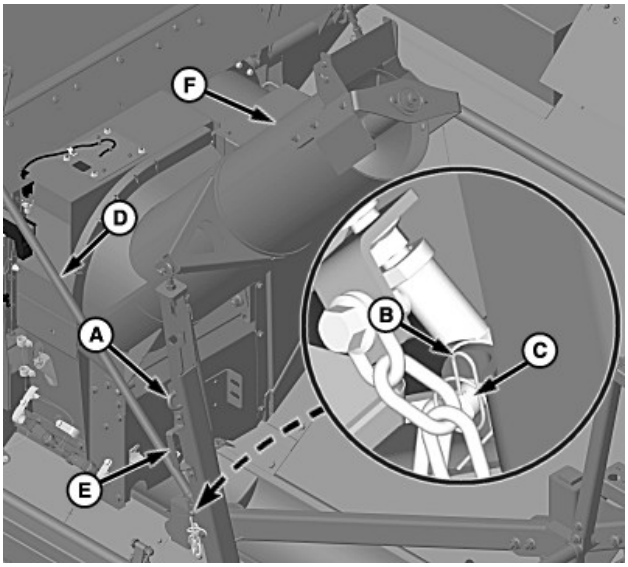
A—Mass Flow Sensor Plate

Clean the mass flow sensor plate (A).

Raise the grain tank loading auger fully against the transition housing and retain with clamps.

OUO6075,00048BB-19-22FEB18

Mass Flow Sensor Plate (Grain Tank Covers)—Cleaning



H123561—UN—21FEB18

A—Pin
B—Quick-Lock Pin
C—Pin
D—Turnbuckle
E—Handle
F—Grain Tank Loading Auger

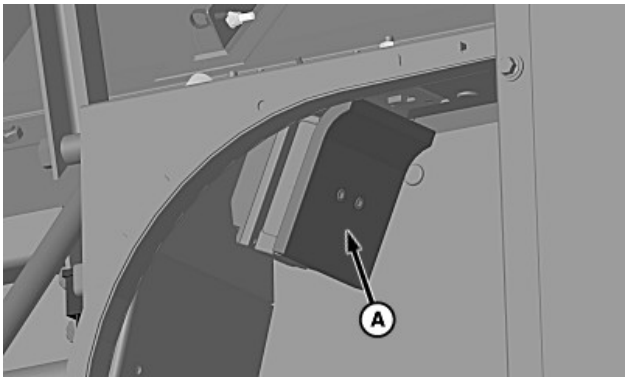
CAUTION: Shut OFF engine, set park brake and remove key.

DO NOT pull or remove pin (A) to lower grain tank loading auger. Removing pin could result in personal injury or machine damage.

Grain tank loading auger is heavy. Use extra care when raising or lowering auger.

Remove quick-lock pin (B) and pin (C) from turnbuckle (D).

Use the handle (E) to help in lowering the grain tank loading auger (F).



H123560—UN—21FEB18

A—Mass Flow Sensor Plate

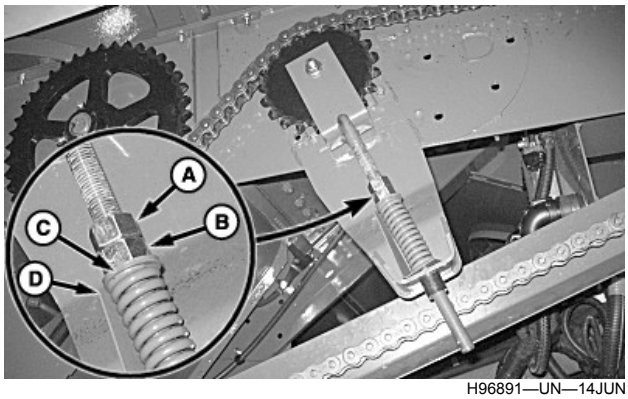
Clean the mass flow sensor plate (A).

Raise the grain tank loading auger fully against the transition housing.

Align the turnbuckle with the hole and retain with pin and quick-lock pin.

OUO6075,00048BC-19-23FEB18

Unloading Auger Drive Chain—Adjusting



H96891—UN—14JUN10

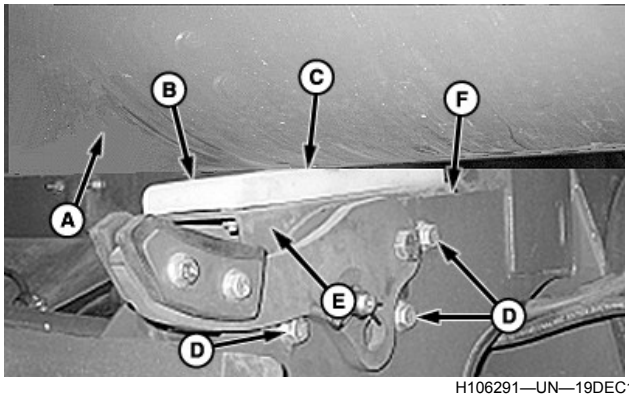
A—Nut
B—Nut
C—Washer
D—End of Gauge

CAUTION: Shut OFF engine, set park brake and remove key.

Loosen nut (A). Tighten nut (B) until the washer (C) aligns with end of gauge (D). Tighten lock nut.

OUO6075,0004364-19-07OCT16

Unloading Auger Cradle Support—Adjusting



H106291—UN—19DEC12

A—Unloading Auger
B—Wear Plate
C—Location
D—Cap Screws
E—Cradle Support
F—Grain Tank Plate

CAUTION: Shut OFF engine, set park brake and remove key.

1. Swing unloading auger to storage or transport position.

NOTE: No gap should exist between the unloading auger (A) and the wear plate (B) at location (C) when adjusted properly.

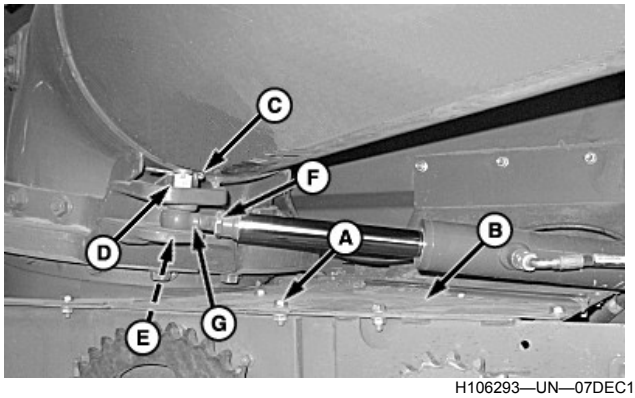
2. If a gap exists between the unloading auger and the wear plate, loosen cap screws (D) and adjust cradle support (E) vertically until wear plate contacts lower surface of unloading auger.

NOTE: Top surface of cradle support (E) MUST be parallel with top of the grain tank plate (F).

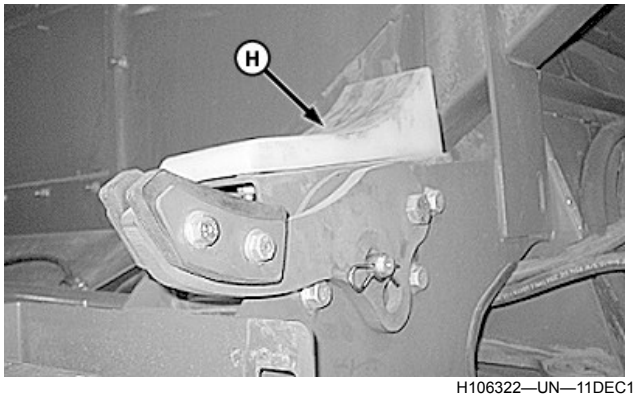
3. Tighten cap screws when cradle is adjusted.

OUO6075,0004367-19-07OCT16

Unloading Auger Position—Adjusting



H106293—UN—07DEC12



H106322—UN—11DEC12

A—Cap Screws (8 Used)
B—Cover
C—Cotter Pin
D—Nut and Washer
E—Pin
F—Nut
G—Eyebolt
H—Wear Plate

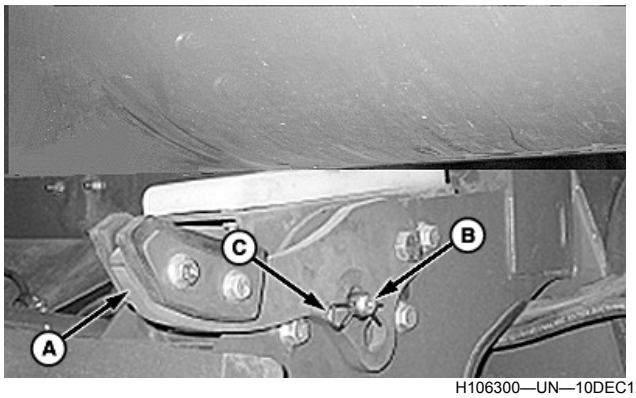
CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Unloading auger MUST contact wear plate when adjusted properly.

1. Remove cotter pin (C), nut, and washer (D) and pin (E).
2. Loosen nut (F) and adjust eyebolt (G) until unloading auger lightly contacts wear plate surface (H).
3. Install previously removed hardware and cover after unloading auger is adjusted.

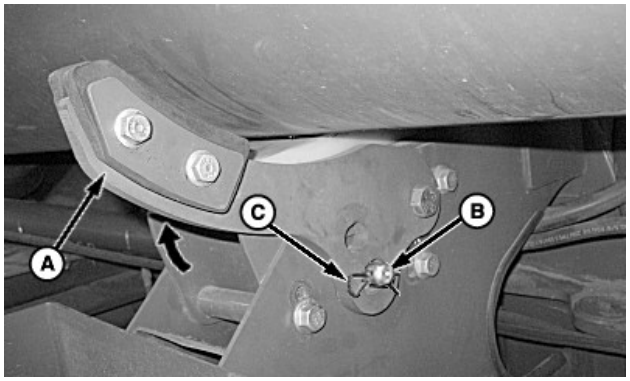
OUO6075,0004368-19-02DEC16

Unloading Auger Lock Arm Positions



H106300—UN—10DEC12

Field Position



H106292—UN—10DEC12

Storage Position/Transport Position

A—Lock Arm
B—Pin
C—Spring Pin

CAUTION: Shut OFF engine, set park brake and remove key.

Field Position

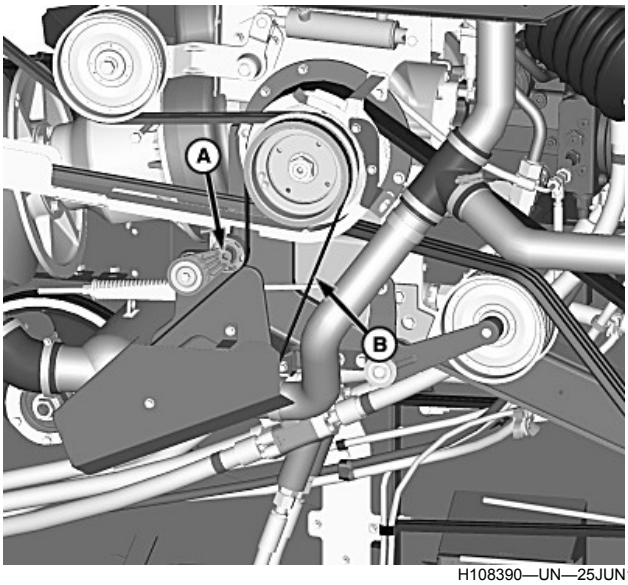
Lower lock arm (A) as shown and install pin (B) and retain with spring pin (C).

Storage/Transport Position

Raise lock arm (A) as shown and install pin (B) and retain with spring pin (C).

OUO6075,0004369-19-20DEC16

Unloading Auger Drive Belt—Replacing (Style A)



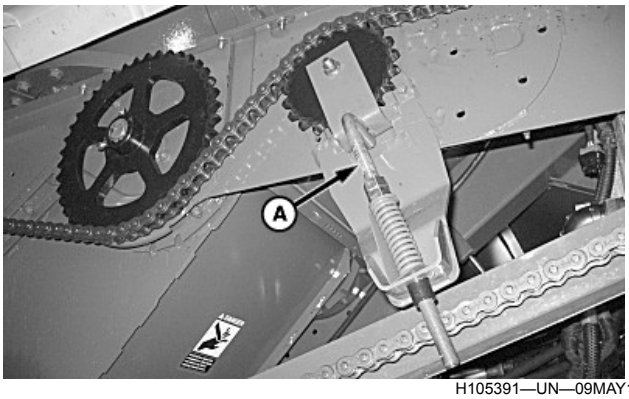
H108390—UN—25JUN13

A—Tensioner Arm
B—Engine Debris Management Belt (If Equipped)

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Verify that unloading auger hydraulic cylinder is disengaged and retracted.

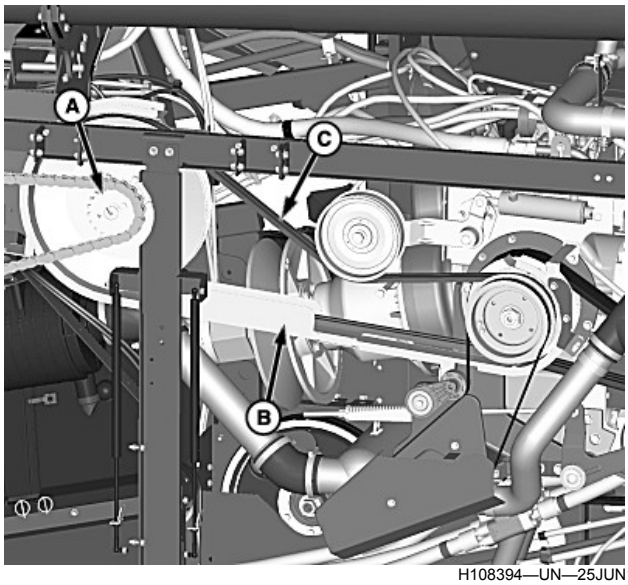
Use breaker bar to relieve tension from the tensioner arm (A) to remove engine debris management belt (B).



H105391—UN—09MAY12

A—Tensioner

Loosen tensioner (A) on the unloading auger drive chain.



H108394—UN—25JUN13

A—Sprocket
B—Belt Trap
C—Belts

Remove chain from sprocket (A).

Remove cap screws from the belt trap (B).

Remove belt trap and belts (C).

Install replacement belts and previously removed belt trap.

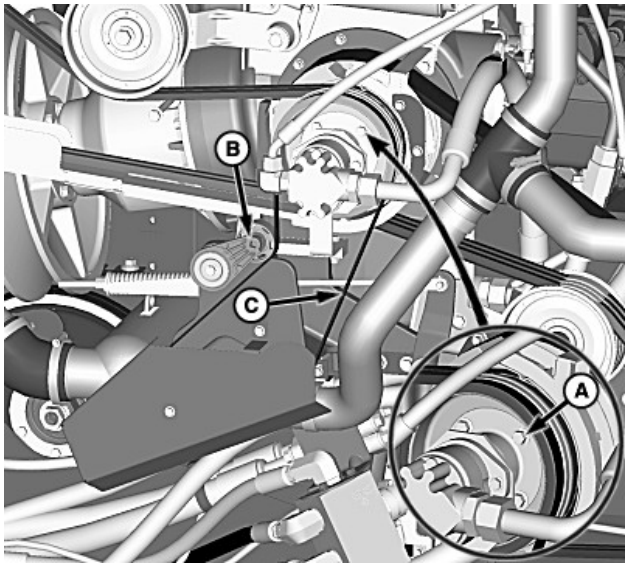
Use breaker bar to relieve tension from the tensioner arm to install engine debris management belt.

Install shield and retain with cap screws.

Install drive chain and adjust the tensioner until washer aligns with end of gauge.

OUO6075,0004365-19-26JAN17

Unloading Auger Drive Belt—Replacing (Style B)



H108393—UN—25JUN13

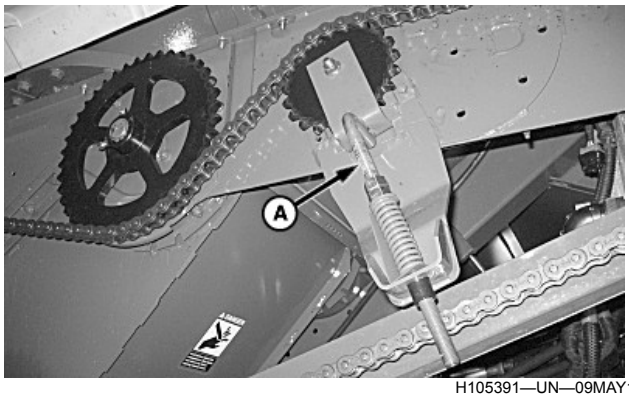
A—Cap Screws
B—Tensioner Arm
C—Engine Debris Management Belt (If Equipped)

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: Verify that unloading auger hydraulic cylinder is disengaged and retracted.

Remove cap screws (A) and support pump assembly out of the way.

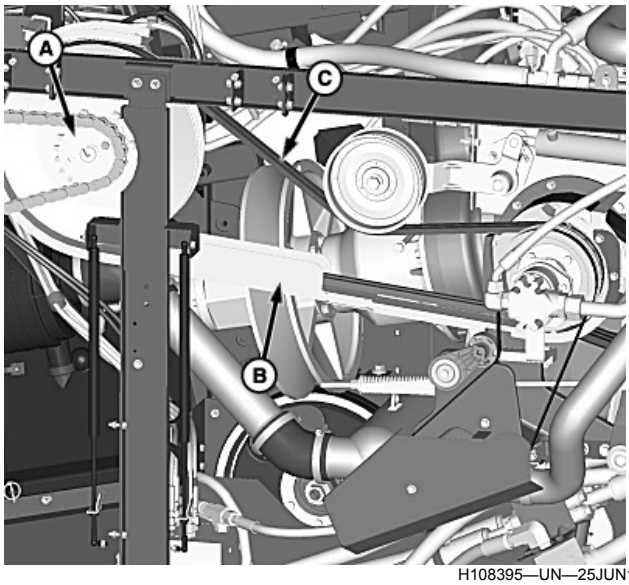
Use breaker bar to relieve tension from the tensioner arm (B) to remove engine debris management belt (C).



H105391—UN—09MAY12

A—Tensioner

Loosen tensioner (A) on the unloading auger drive chain.



H108395—UN—25JUN13

A—Sprocket
B—Belt Trap
C—Belts

Remove chain from sprocket (A).

Remove cap screws from the belt trap (B).

Remove belt trap and belts (C).

Install replacement belts and previously removed belt trap.

Install pump assembly and tighten cap screws to specification.

Specification

Cap Screws—Torque	80 N·m (59 lb·ft)

Use breaker bar to relieve tension from the tensioner arm to install engine debris management belt.

Install shield and retain with cap screws.

Install drive chain and adjust the tensioner until washer aligns with end of gauge.

OUO6075,0004366-19-26JAN17

Welding Near Electronic Control Units



TS953—UN—15MAY90

IMPORTANT: Do not jump-start engines with arc welding equipment. Currents and voltages are too high and may cause permanent damage.

1. Disconnect the negative (-) battery cable(s).
2. Disconnect the positive (+) battery cable(s).
3. Connect the positive and negative cables together. Do not attach to vehicle frame.
4. Clear or move any wiring harness sections away from welding area.
5. Connect welder ground close to welding point and away from control units.
6. After welding, reverse Steps 1—5.

DX,WW,ECU02-19-14AUG09

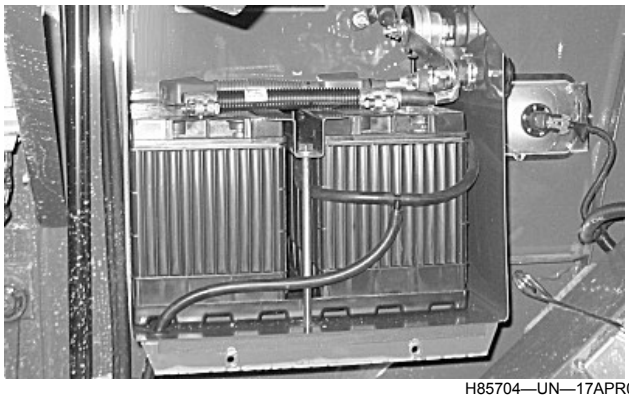
Keep Electronic Control Unit Connectors Clean

IMPORTANT: Do not open control unit and do not clean with a high-pressure spray. Moisture, dirt, and other contaminants may cause permanent damage.

1. Keep terminals clean and free of foreign debris. Moisture, dirt, and other contaminants may cause the terminals to erode over time and not make a good electrical connection.
2. If a connector is not in use, put on the proper dust cap or an appropriate seal to protect it from foreign debris and moisture.
3. Control units are not repairable.
4. Since control units are the components LEAST likely to fail, isolate failure before replacing by completing a diagnostic procedure. (See your John Deere dealer.)
5. The wiring harness terminals and connectors for electronic control units are repairable.

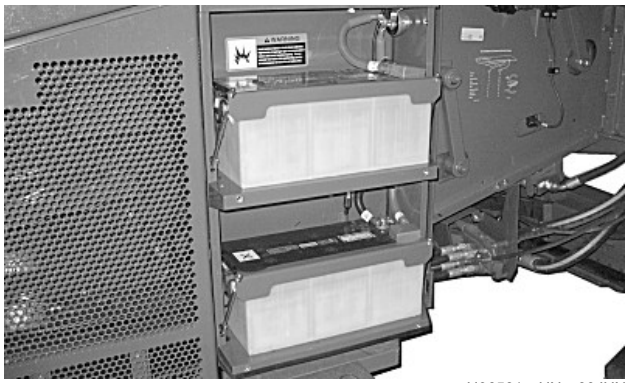
DX,WW,ECU04-19-11JUN09

Observe Electrical Precautions



H85704—UN—17APR06

Style A



H96581—UN—30JUN10

Style B

CAUTION: Machine must be on a flat surface to accurately check fluid levels. Battery fluid level should be visible at the top of each fill port covering the plates in each cell.

Keep all sparks and flames away from batteries as gas given off by electrolyte is explosive. To avoid sparks, connect ground cable last and disconnect it first. To avoid shocks and burns, turn battery disconnect switch OFF before servicing any part of the electrical system or when removing batteries.

OUO6075,0004356-19-07OCT16

Basic Electrical Component Handling / Precautions for Vehicles Equipped with Computer Controlled Systems

- Never disconnect the batteries while the key switch is on and the engine is running.

  Why: This can cause electrical voltage spikes that can damage electronic components.

- Do not connect jumper cables while the key switch is on.

Why: This can cause electrical voltage spikes that can damage electronic components.

- Disconnect batteries prior to recharging (if possible)
  Why: Electrical loads in the machine can slow the recharging process. Battery chargers can cause electrical voltage spikes that can damage electronic components.

- Never jump start the machine with a voltage higher than the machine is designed to operate on
  Why: This can damage electronic components

- Do not connect or disconnect electrical connectors while the key switch is on or the machine is running.
  Why: This can cause computer system errors from interrupting a computer program while it is running and electrical voltage spikes that are produced can damage electronic components.

- Do not apply power or ground to any component as a test unless specifically instructed to do so.
  Why: Connecting the wrong voltage to the wrong point of an electronic system can cause electronic component failures.

- When welding on the machine, make sure to connect ground lead to the parts being welded. For maximum protection disconnect all electronic controllers before welding.

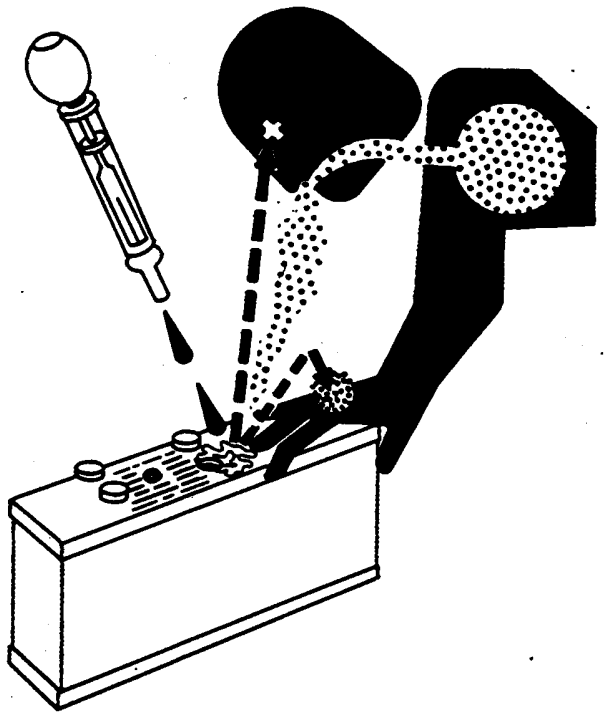
  Why: The high currents associated with welding can damage wiring harnesses that are involved in the ground path. Welding can also cause electrical voltage spikes that can damage electronic components.

KC01776,00003CF-19-19MAR01

Handling Batteries Safely



TS204—UN—15APR13



TS203—UN—23AUG88

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove grounded (-) battery clamp first and replace grounded clamp last.

Sulfuric acid in battery electrolyte is poisonous and strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid hazards by:

- Filling batteries in a well-ventilated area
- Wearing eye protection and rubber gloves
- Avoiding use of air pressure to clean batteries
- Avoiding breathing fumes when electrolyte is added
- Avoiding spilling or dripping electrolyte
- Using correct battery booster or charger procedure.

If acid is spilled on skin or in eyes:

1. Flush skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush eyes with water for 15—30 minutes. Get medical attention immediately.

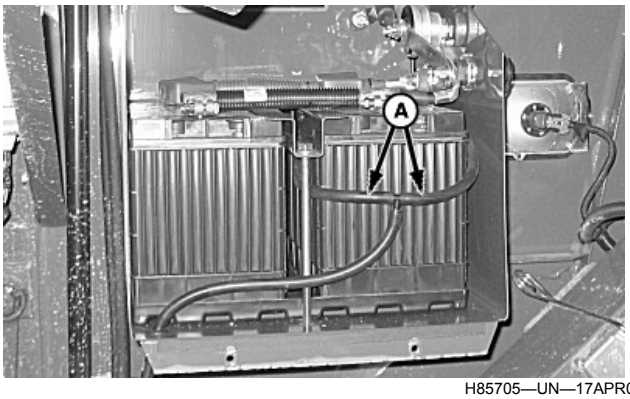
If acid is swallowed:

1. Do not induce vomiting.
2. Drink large amounts of water or milk, but do not exceed 2 L (2 qt.).
3. Get medical attention immediately.

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. **Wash hands after handling.**

DX,WW,BATTERIES-19-02DEC10

Batteries—Safe Installation



H85705—UN—17APR06

Style A



H96586—UN—30JUN10

Style B

A—Vent Tubes

CAUTION: Machine must be on a flat surface to accurately check fluid levels. Battery fluid level should be visible at the top of each fill port covering the plates in each cell.

Avoid serious injury or death from explosions. High levels of hydrogen gas can accumulate if the battery box is not vented properly. Always reinstall the vent tubes (A) after performing service or maintenance on the batteries or the battery box. Verify that the ventilation hoses are not bent or kinked.

Replacement batteries must have a ventilation fitting suited for ventilation hose attachment. See your John Deere dealer for replacement batteries equipped with ventilation fittings.

If ventilation tubes are not attached to the battery then the battery lid must remain off whenever the machine engine is running or whenever the batteries are being charged with an external charger.

OUO6075,0004357-19-15DEC16

Battery Cables—Connecting

CAUTION: BATTERIES ARE NEGATIVE GROUNDED ONLY. Always connect battery ground strap to negative (-) posts of battery. Connect starter cable to positive (+) post of battery. Reversed polarity in battery or alternator connections results in permanent damage to electrical system. Connect ground strap to negative (-) terminal last.

IMPORTANT: Batteries must have same terminal locations.

When connecting batteries:

Turn off all switches and accessories. Clean battery posts and terminals.

QUICKLY TAP ground strap to negative post. Arcing must not occur. If arcing occurs, DO NOT MAKE CONNECTION. Check to see if battery position is reversed.

If arcing still occurs, check again that all switches and accessories are off. Then check for shorts, broken wires and loose or corroded connections.

Connect negative (-) battery ground straps.

OUO6075,00007D7-19-19MAR07

Batteries—Charging

Keep battery fully charged, especially during cold weather. Failure to keep battery fully charged, above 12.50 volts, may result in reduced battery life.

CAUTION: Never charge a frozen battery. Thaw at room temperature before connecting to battery charger. Only charge batteries in a well ventilated area. Disconnect both cables from battery terminals when charging batteries in combine.

IMPORTANT: If batteries are not fully charged electrolyte may freeze.

Determine which battery needs to be charged.

Disconnect both battery cables and connect charger positive cable to "+" terminal and charger negative cable to "-" terminal.

Follow instructions provided with charger. Always charge batteries with a 12-volt charger.

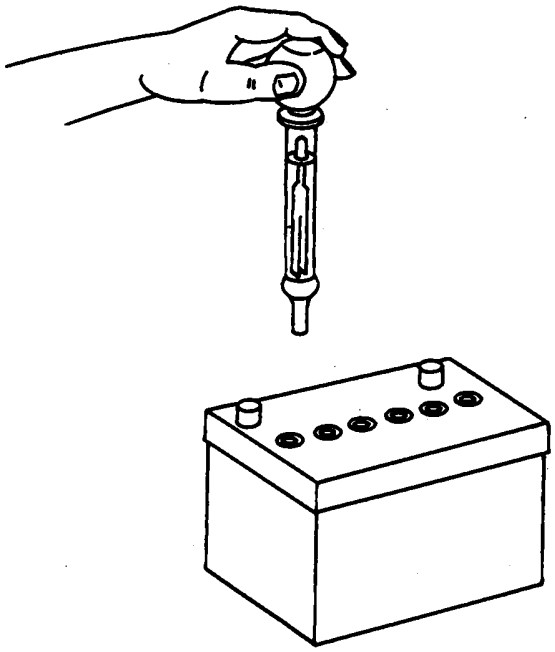
OUO6075,00007D8-19-19MAR07

Batteries—Checking Specific Gravity

CAUTION: Batteries must be on a flat surface to accurately check fluid levels. Battery fluid level should be visible at the top of each fill port covering the plates in each cell.

Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.



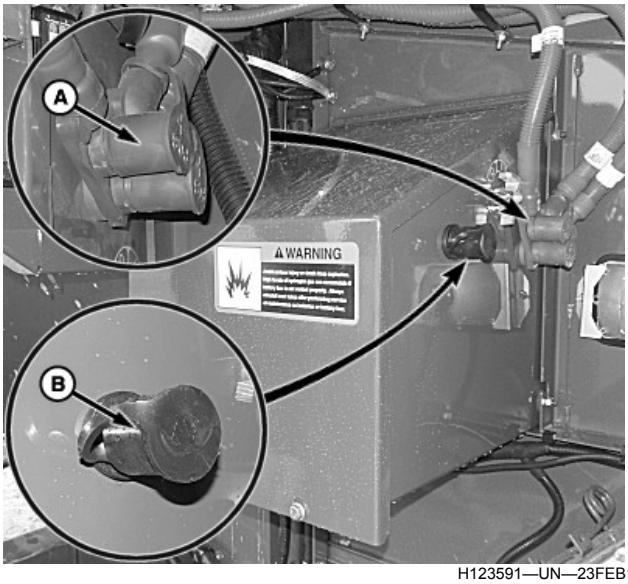
TS182—UN—23AUG88

Check specific gravity of electrolyte in each cell with a battery hydrometer to determine battery condition. Charge battery if reading is below 1.225. Replace battery if difference between cells is more than 0.050.

Always correct specific gravity reading for electrolyte temperature variation. Add 0.004 for every 10°F above 80°F. (Add 0.007 for every 10°C above 27°C.) Subtract at same rate if electrolyte temperature is below 80°F (27°C). Corrected specific gravity of a fully charged battery is 1.265 — 1.280.

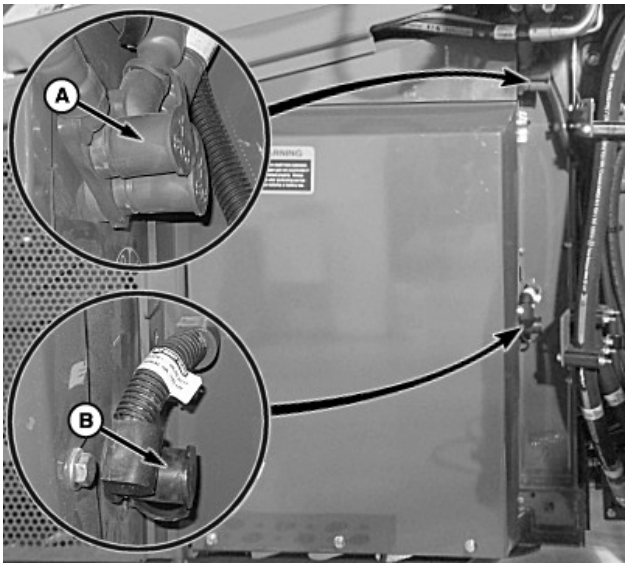
OUO6075,00007D9-19-19MAR07

Batteries—Connecting Booster



H123591—UN—23FEB18

Style A



H123369—UN—08FEB18

Style B

A—Positive (+) Post
B—Negative (-) Post

Cold weather starting can be easier by connecting an additional 12 V battery in parallel.

⚠ CAUTION: Gas given off by batteries is explosive. Avoid sparks near batteries.

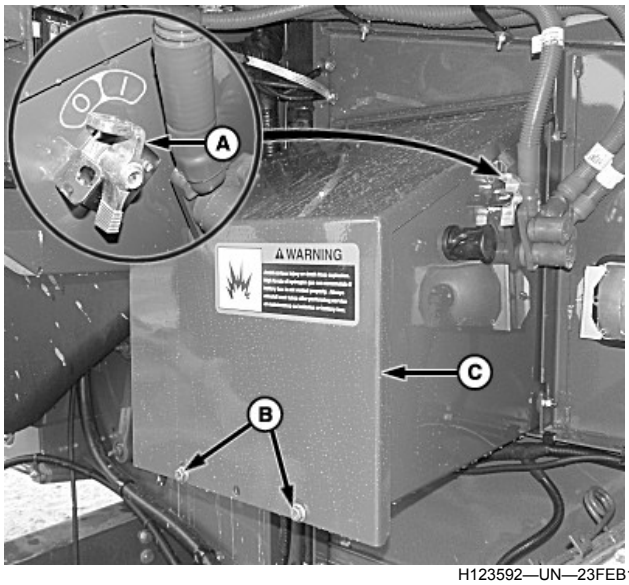
IMPORTANT: Never connect jumper cables with the key switch or battery disconnect switch ON. Never jump-start with more than 12 V.

Remove protective caps from posts.

First jumper cable must first be connected to positive (+) post of the booster battery. Connect other end to positive (+) post (A) of the machine battery. Second jumper cable must first be connected to negative (-) post of the booster battery. Connect other end to negative (-) post (B) of the machine battery.

OUO6075,000489E-19-23FEB18

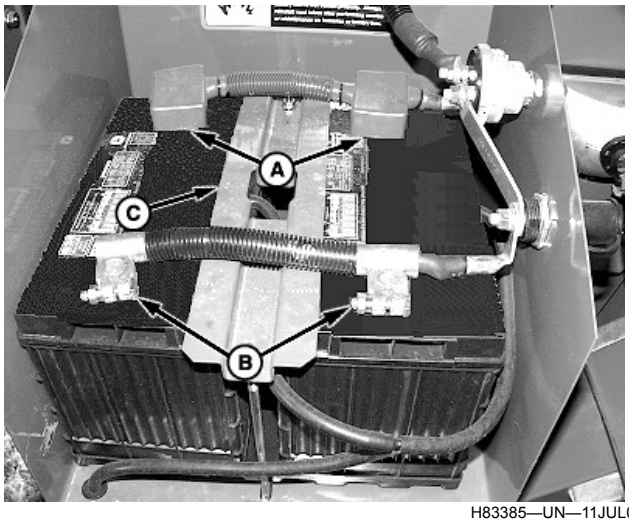
Batteries—Removing and Installing (Style A)



H123592—UN—23FEB18

A—Battery Disconnect Switch
B—Cap Screws
C—Cover

1. Turn battery disconnect switch (A) counterclockwise to OFF position.
2. Remove cap screws (B) and cover (C) to access batteries.



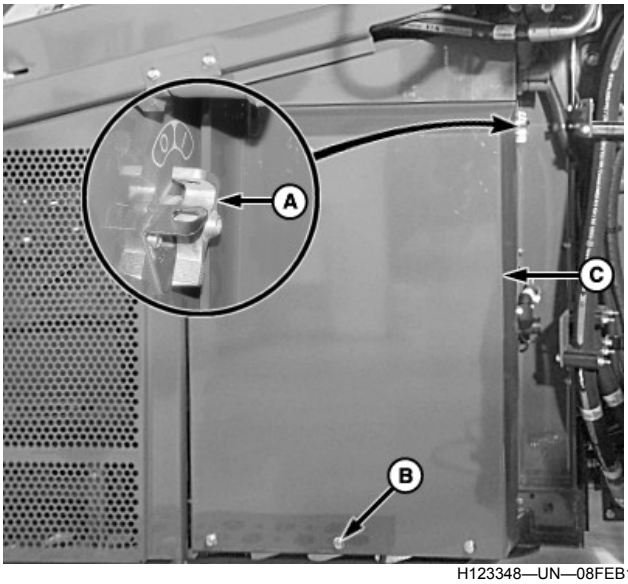
H83385—UN—11JUL05

A—Positive Cable
B—Negative Cable
C—Clamp

3. Disconnect negative (-) cable (B) from batteries and negative jump-start post.
4. Disconnect positive (+) cable (A) and positive jump-start post.
5. Remove clamp (C) and battery vent tubes.
6. Clean batteries and battery mounting area.
7. Install batteries in the battery box and on the plastic tray.
8. Clean battery cables and posts and reconnect battery vent tubes.
9. Loosely install the clamp (C).
10. Attach positive (+) cable (A) and positive jump-start post.
11. Attach negative (-) cable (B) and negative jump-start post.
12. Tighten battery clamp.
13. Install cover and retain with previously removed cap screws.
14. Turn battery disconnect switch clockwise to ON position.

OUO6075,000489F-19-23FEB18

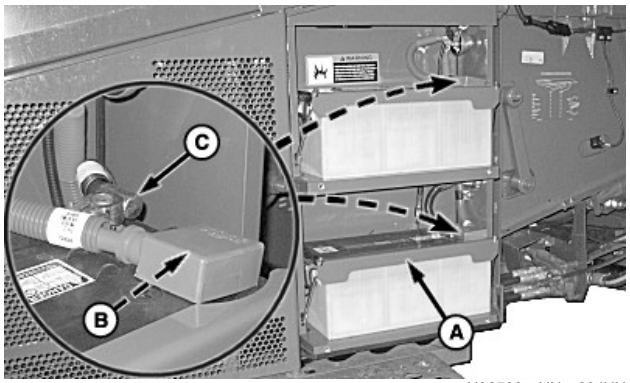
Batteries—Removing and Installing (Style B)



H123348—UN—08FEB18

A—Battery Disconnect Switch
B—Cap Screws (9 used)
C—Cover

1. Turn battery disconnect switch (A) counterclockwise to OFF position.
2. Remove cap screws (B) and cover (C) to access batteries.



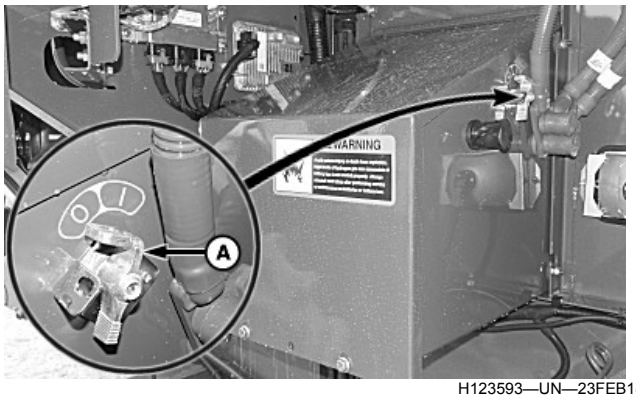
H96583—UN—30JUN10

A—Clamp
B—Positive Cable
C—Negative Cable

3. Remove clamp (A) and battery vent tubes.
4. Disconnect positive (+) cable (B) and negative (-) cable (C).
5. Clean batteries and battery mounting area.
6. Install batteries in the battery box.
7. Clean battery cables, posts, and reconnect battery vent tubes.
8. Attach positive (+) cable and negative (-) cable.
9. Install and tighten the battery clamp.
10. Install cover and retain with previously removed cap screws.
11. Turn battery disconnect switch clockwise to ON position.

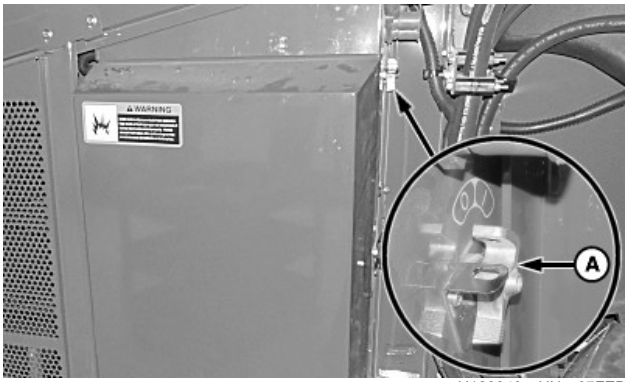
OUO6075,0004898-19-07FEB18

Battery Disconnect Switch



H123593—UN—23FEB18

Style A



H123349—UN—07FEB18

Style B

A—Battery Disconnect Switch

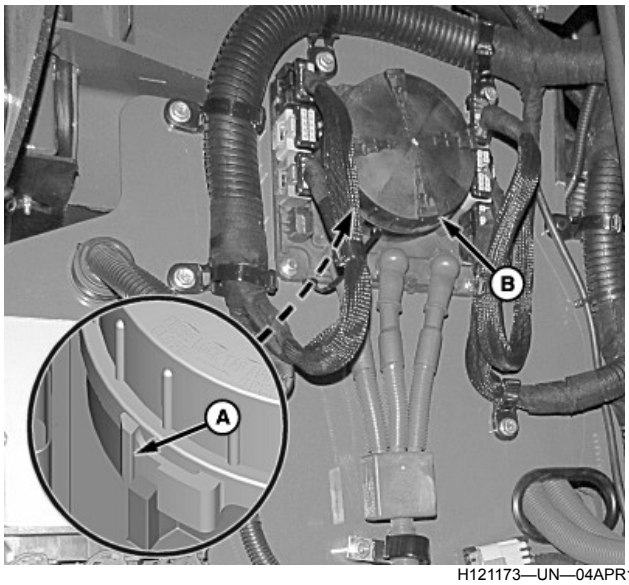
IMPORTANT: Final Tier 4/Stage V: Do not disconnect battery for at least 90 seconds after machine is shut OFF. Selective Catalyst Reduction (SCR) system automatically purges lines of Diesel Exhaust Fluid (DEF) during this time, immediately after machine is shut OFF. If adequate time is not allowed for lines to be purged, any fluid remaining in lines can crystallize and plug lines. In freezing weather, fluid will freeze and possibly burst lines.

NOTE: Turn battery disconnect switch OFF if machine is stored longer than 25 days. If storage period is longer than 90 days, remove negative lead to batteries to minimize load to batteries.

Turn battery disconnect switch (A) clockwise to turn ON machine electrical system or turn switch counterclockwise to turn OFF machine electrical system.

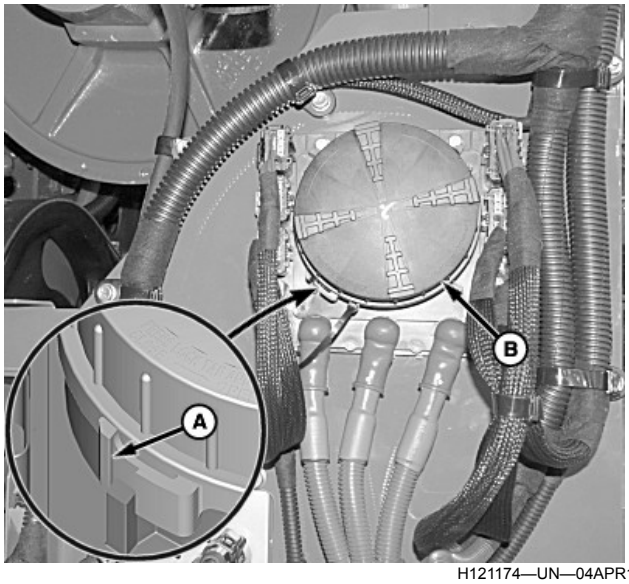
OUO6075,0004899-19-23FEB18

Machine Fuse Center



H121173—UN—04APR17

Style A



H121174—UN—04APR17

Style B

A—Lock Tab
B—Cover

NOTE: Fuse center is on the right-hand side or the left-hand side depending on the machine model.

Spare fuses and fuse puller are located underneath cover.

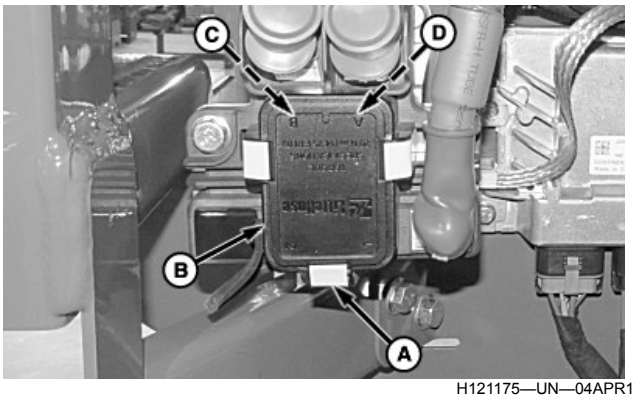
Press lock tab (A) and turn cover (B) counterclockwise to open fuse center.

- F1—F2 Not Used
- F3—(15A) (cc# 0642), Control Unit RC2 Power 1
- F6—(15A) (cc# 0652), Control Unit RC2 Power 2
- F7—(30A) (cc# 0342), Control Unit RC1 Power 1

- F8—Not Used
- F9—(30A) (cc# 0362), Right Power Module 1 (RPM1) Power 5
- F11—(20A) (cc# 0332), Right Power Module 1 (RPM1) Power 3
- F12—(20A) (cc# 0322), Right Power Module 1 (RPM1) Power 2
- F13—F14 Not Used
- F15—(20A) (cc# 0352), Right Power Module 1 (RPM1) Power 4
- F16—Not Used
- F17—(30A) (cc# 0912), Moisture Sensor
- F18—(25A) (cc# 0372), Control Unit RC1 Power 2
- F19—F26 Not Used
- F27—(30A) (cc# 0152), Control Unit LC1 Power 2
- F28—F30 Not Used
- F31—(10A) (cc# 0012), Unswitched Battery Power
- F32—(30A) (cc# 0142), Left Power Module 1A (LPM1A) Power 4
- F33—Not Used
- F34—(30A) (cc# 0112), Left Power Module 1A (LPM1A) Power 1
- F35—Not Used
- F36—(30A) (cc# 0312), Right Power Module 1 (RPM1) Power 1
- F37—F38 Not Used
- F39—(10A) (cc# 4972), Control Unit SSU/XSC Unswitched Power
- F40—F42 Not Used
- F43—(25A) (cc# 5222), Control Unit ECU Power 3
- F44—(30A) (cc# 0712), Left Power Module 2B (LPM2B) Power 1
- F45—(20A) (cc# 0122), Left Power Module 1A (LPM1A) Power 2
- F46—(30A) (cc# 0132), Left Power Module 1A (LPM1A) Power 3
- F47—Not Used
- F48—(25A) (cc# 5012), Control Unit ECU Power 1
- F49—F50 Not Used
- F51—(30A) (cc# 0162), Control Unit LC1 Power 1
- F52—Not Used
- F54—(10A) (cc# 0422), Control Unit PTP Power
- F55—(25A) (cc# 5022), Control Unit ECU Power 2
- F56—(15A) (cc# 5042), Fuel Transfer Pump
- F57—(30A) (cc# 0222), Left Power Module 2B (LPM2B) Power 2
- F58—F62 Not Used
- F63—(15A) (cc# 5062), Dosing Pump Power
- F64—(20A) (cc# 0212), Left Power Module 2A (LPM2A) Power 1
- F67—Not Used
- F68—(25A) (cc# 0172), Left Power Module 1A (LPM1A) Power 5
- F69—(30A) (cc# 0972), Flex Residue Chopper Power 2
- F70—F71 Not Used
- F73—(30A) (cc# 0252), Control Unit LC2 Power 1
- F74—(30A) (cc# 0972), Flex Residue Chopper Power 1
- F75—F77 Not Used
- F78—(30A) (cc# 0242), Control Unit LC2 Power 1
- F79—Not Used
- F80—(30A) (cc# 0722), Left Power Module 2B (LPM2B) Power 2

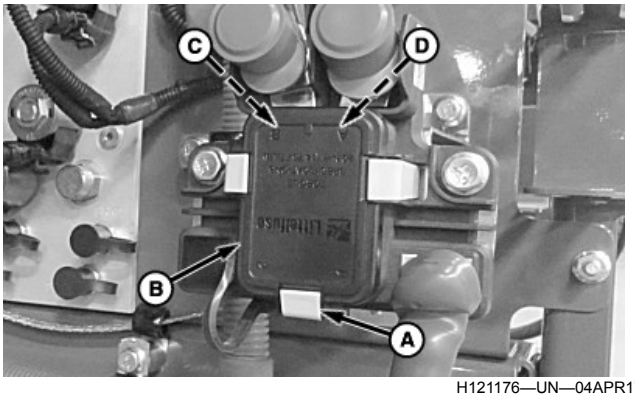
OUO6075,0004683-19-04APR17

Inline Fuses



H121175—UN—04APR17

Style A



H121176—UN—04APR17

Style B

A—Latch (3 used)
B—Cover
C—F82—Inline Fuse
D—F92—Inline Fuse

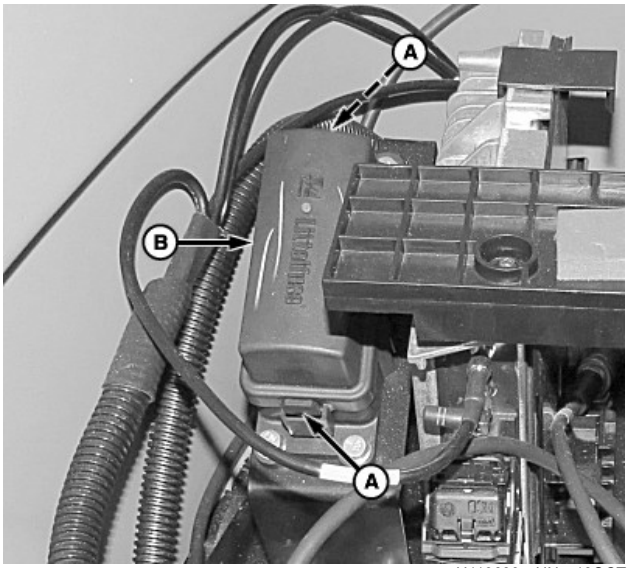
NOTE: Inline fuses are on the right-hand side or the left-hand side depending on the machine model.

Open latches (A) and remove cover (B) to access inline fuses.

- F82—Inline Fuse, (125A) (cc# 8002), Control Unit CAB
- F92—Inline Fuse, (125A) (cc# 8912), Cab Fuse Center

OUO6075,00046FD-19-04APR17

Cab Fuse Center



H119639—UN—13OCT16

A—Lock Tabs
B—Cover

NOTE: Fuse center is located inside the cab within the control unit enclosure which is underneath the armrest console on the cab floor.

Press lock tabs (A) and remove cover (B) to open fuse center.

- F801—(15A) (cc# 8262), ARMC Power
- F802—(10A) (cc# 8802), Server-Monitor Power
- F803—(15A) (cc# 8302), SCL Power
- F804—(15A) (cc# 8072), PDU Power
- F805—(15A) (cc# 8152), Receiver Power
- F806—(15A) (cc# 8162), Miscellaneous Cab Power
- F807—(10A) (cc# 8192), ATC Power
- F808—(20A) (cc# 8082), Recirculation Fan Power 1
- F809—(20A) (cc# 8182), Recirculation Fan Power 2
- F810—(20A) (cc# 8172), Seat Power
- F811—(20A) (cc# 8092), Accessory Power
- F812—(15A) (cc# 8242), Auxiliary Power Outlets
- F813—(20A) (cc# 8252), Auxiliary Power Strip
- F814—(20A) Not Used
- F815—(20A) (cc# 8622), Front Wiper Power
- F816—(10A) (cc# 8312), Radio Power
- F817—(7.5A) (cc# 8322), Armrest APO Power
- F818—(5A) (cc# 0006), Wakeup Power
- F819—(5A) (cc# 8112), USB Charger Power

OUO6075,00045AD-19-31JAN17

Video Safety

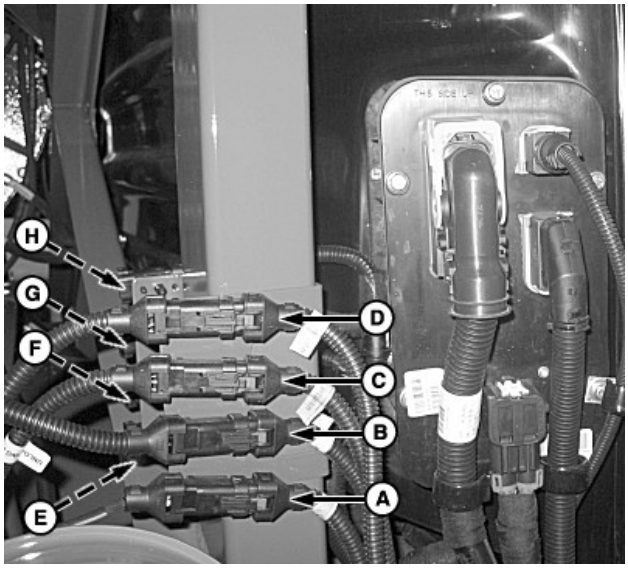
CAUTION: Do not rely on a camera for collision avoidance or bystander detection. To avoid possible injury or death to operator or others, always remain alert and aware of surroundings when operating machine. Read and understand Avoid Backover Accidents in Safety section.

IMPORTANT:

- **Correctly understand whether camera or video application is ”mirrored”.**
- **Mount camera in a sturdy and secure location.**
- **Understand camera's field of view.**
- **Keep camera properly serviced.**
- **Keep camera lens clean.**

OUO6075,00013B2-19-31JAN13

Video Interface Capability



H119626—UN—12OCT16

A—Video Input 1 (Armrest)
B—Video Input 2 (Armrest)
C—Video Input 3 (Armrest)
D—Video Input 4 (Armrest)
E—Video Input 1 (Optional Display)
F—Video Input 2 (Optional Display)
G—Video Input 3 (Optional Display)
H—Video Input 4 (Optional Display)

Machine is equipped with eight camera video inputs which are located at the right-hand side of operator’s station.

Video input (A—D) feeds video signals to the server which then go to the armrest display.

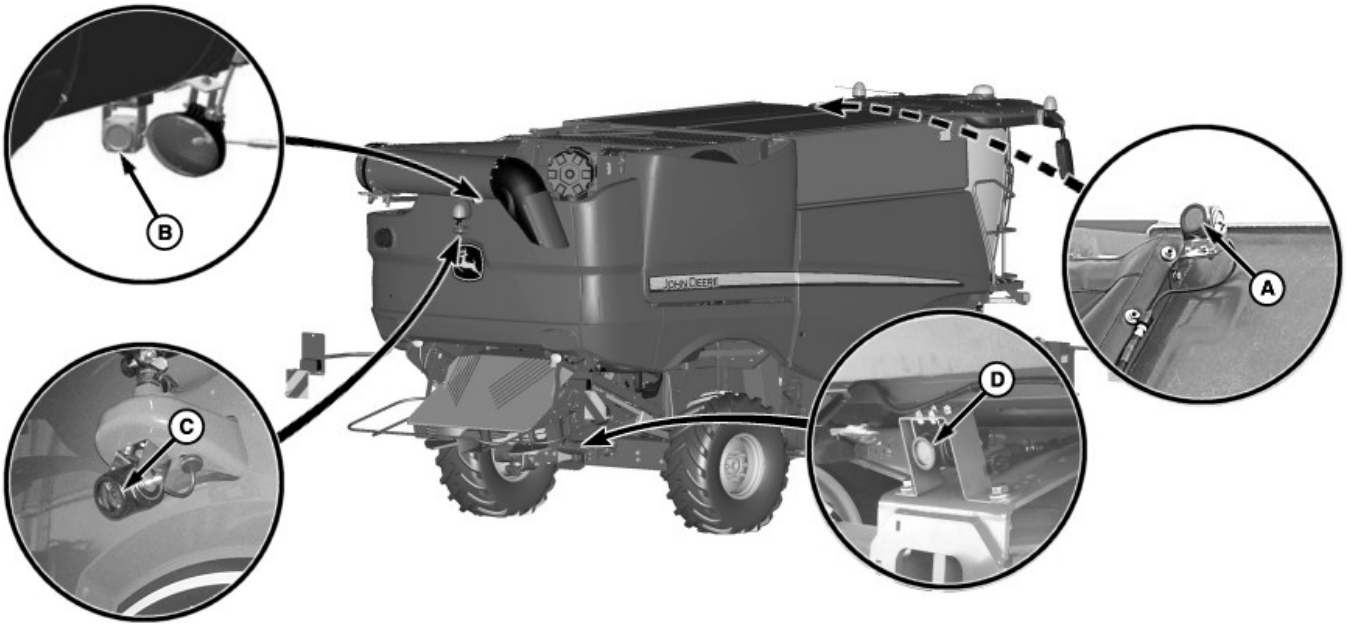
Video input (E—H) feeds video signals to the optional GreenStar™ 3 2630 Display.

See your John Deere dealer for further information on video-compatible camera solutions.

OUO6075,0004684-19-20MAR17

GreenStar is a trademark of Deere & Company

Adjust Cameras (If Equipped)



H116367—UN—25NOV15

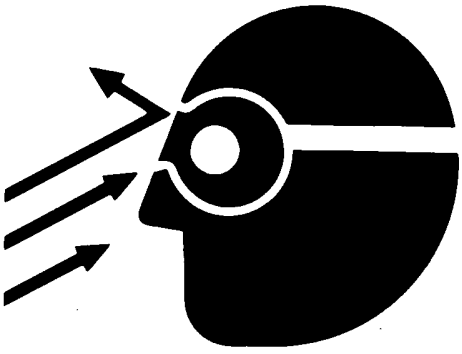
A—Grain Tank Camera
B—Unloading Auger Camera
C—Rear View Camera
D—Hitch Camera

NOTE: Camera styles may vary from what is shown. See your John Deere dealer or qualified service provider for further information.

If machine is equipped with cameras (A—D), adjust cameras as needed.

OUO6075,00041A7-19-28JAN16

Safety Rules When Replacing Halogen Bulbs



TS266—UN—23AUG88



H59774—UN—30AUG99

A—Halogen Bulb

CAUTION: Halogen bulbs (A) contain gas under pressure. Handling a bulb improperly could cause it to shatter into flying fragments. To avoid possible injury:

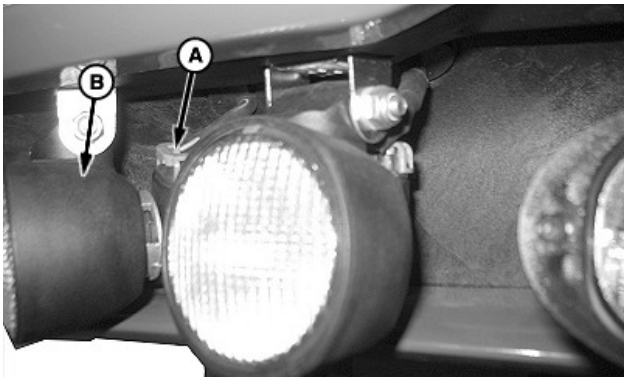
- **Turn light switch OFF and allow bulb to cool before changing bulbs. Leave switch OFF until bulb change is complete.**
- **Wear eye protection when changing bulb.**
- **Handle bulb by its base. Wear protective gloves or avoid touching light bulb surface.**
- **Use a clean cloth and alcohol to remove any fingerprints from glass bulb before installing. Skin oil deposited on bulb will cause overheating and premature failure.**
- **Do not drop or scratch bulb.**
- **Keep moisture away from bulb.**
- **Do not operate bulb outside of its enclosure.**

Bulb has a high internal pressure and if cracked or broken it could explode and cause injury.

- **Place used bulb in new bulb carton and dispose of properly. Keep out of reach of children.**

OUO6075,0001356-19-12DEC12

Cab Headlight Bulb—Replacing



H96621—UN—25MAY10



H96622—UN—25MAY10

A—Connector
B—Headlight Assembly
C—Bulb Assembly

CAUTION: Raise feeder house and lower safety stop before replacing or adjusting headlights.

Disconnect wiring harness connector (A) from headlight assembly (B).

Rotate light housing toward outside of cab.

Turn bulb assembly (C) counterclockwise and remove.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Replace bulb.

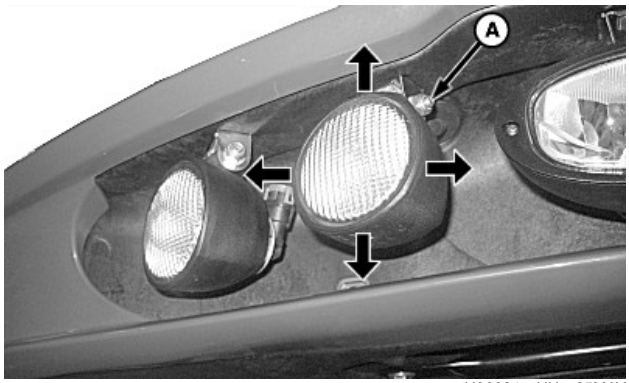
Push in bulb assembly and turn clockwise to install into housing.

Rotate light housing to previous operating position and connect wiring harness.

Repeat on remaining lights as needed.

OUO6075,0000784-19-04NOV10

Cab Headlights—Adjusting



H96624—UN—25MAY10

A—Cap Screw

CAUTION: Raise feeder house and lower safety stop before replacing or adjusting headlights.

NOTE: Light assemblies can be adjusted as needed to achieve correct lighting angles.

Vertical Adjustment: Loosen cap screw (A). Rotate light assembly up or down to desired position and tighten cap screw. Repeat on remaining lights as needed.

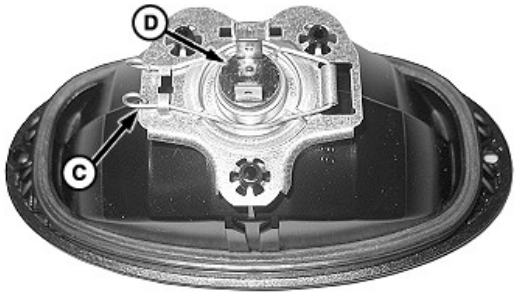
Horizontal Adjustment: Rotate light assembly left or right to desired position. Repeat on remaining lights as needed.

OUO6075,0001052-19-27FEB12

Cab Halogen Light Bulb—Replacing



H96625—UN—25MAY10



H96626—UN—25MAY10

A—Screws
B—Face Plate Lens
C—Clip
D—Bulb Assembly

CAUTION: Raise feeder house and lower safety stop before replacing or adjusting headlights.

Remove screws (A) and face plate lens (B) from housing.

Squeeze clips (C) to remove bulb assembly (D).

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Remove and replace bulb.

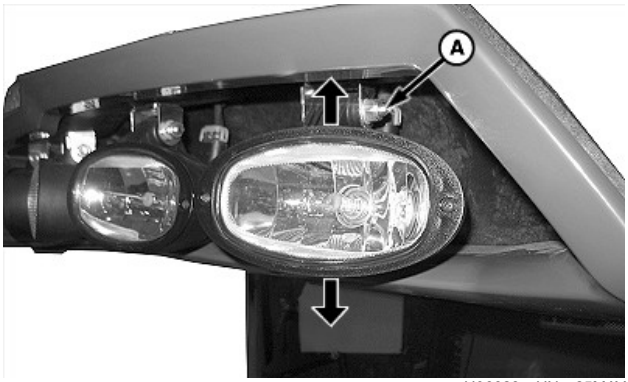
Attach bulb assembly using clips on light bulb base.

Align face plate lens with connector inside housing and retain with screws.

Repeat on remaining lights as needed.

OUO6075,0000787-19-04NOV10

Cab Halogen Lights—Adjusting



H96628—UN—25MAY10

A—Cap Screw

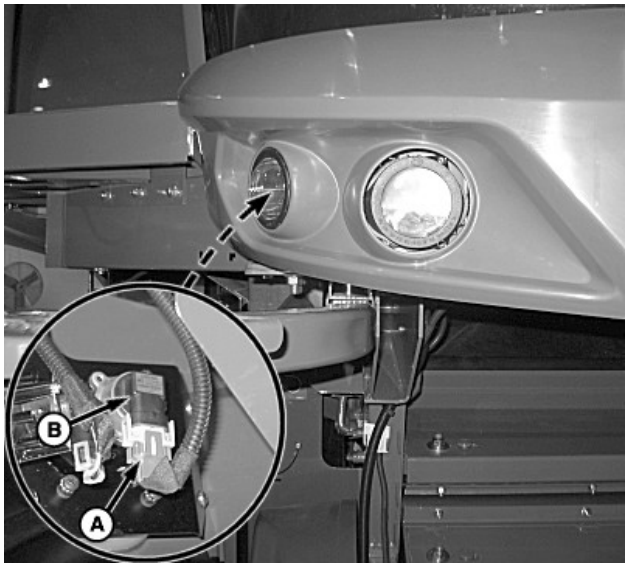
CAUTION: Raise feeder house and lower safety stop before replacing or adjusting headlights.

NOTE: Light assemblies can be adjusted as needed to achieve correct lighting angles.

Loosen cap screw (A). Rotate light assembly up or down to desired position and tighten cap screw. Repeat on remaining lights as needed.

OUO6075,0001053-19-27FEB12

Fascia Light Bulb (If Equipped)—Replacing



H98976—UN—02NOV10

A—Connector
B—Bulb Assembly

CAUTION: Lower feeder house fully before replacing or adjusting headlights.

Disconnect wiring harness connector (A) from bulb assembly (B).

Turn bulb assembly counterclockwise and remove.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

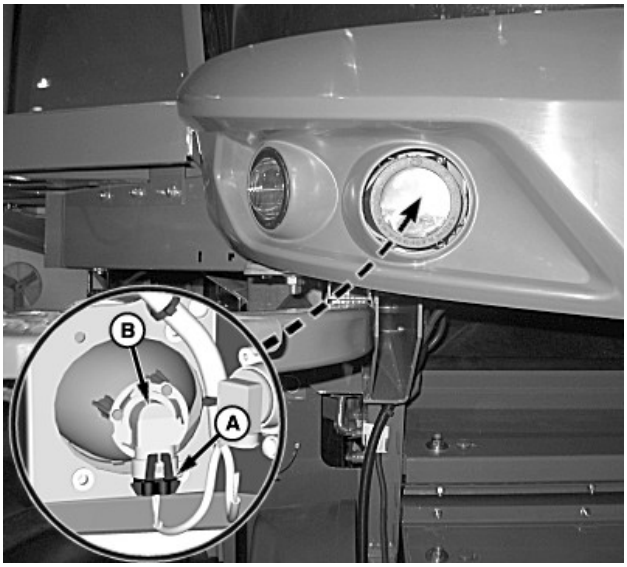
Remove and replace bulb.

Push in bulb assembly and turn clockwise to install into housing and connect wiring harness.

Repeat on remaining lights as needed.

OUO6075,0000A6F-19-04NOV10

Lower Driving Light Bulb (If Equipped)—Replacing



H96629—UN—02NOV10

A—Connector
B—Bulb Assembly

CAUTION: Lower feeder house fully before replacing or adjusting headlights.

Disconnect wiring harness connector (A) from bulb assembly (B).

Turn bulb assembly counterclockwise and remove.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

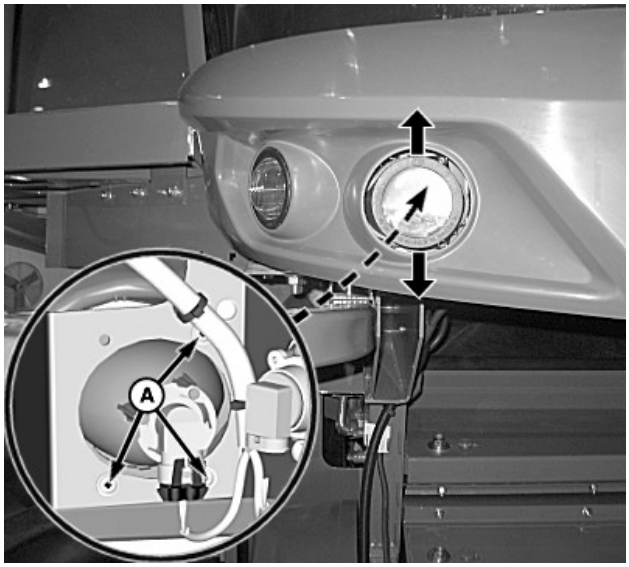
Remove and replace bulb.

Push in bulb assembly and turn clockwise to install into housing and connect wiring harness.

Repeat on remaining lights as needed.

OUO6075,0000A70-19-04NOV10

Lower Driving Light Bulb (If Equipped)—Adjusting



H98977—UN—02NOV10

A—Screws

CAUTION: Lower feeder house fully before replacing or adjusting headlights.

NOTE: Light assemblies can be adjusted as needed to achieve correct lighting angles.

Adjust screws (A) to rotate light assembly up or down to desired position and tighten screws. Repeat on remaining lights as needed.

OUO6075,0001054-19-27FEB12

Light Emitting Diode (LED) Lights (Optional)—Replacing

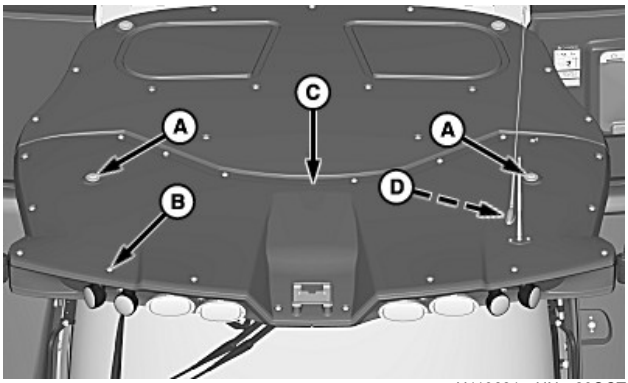


H119680—UN—20OCT16

A—Light Emitting Diode (LED) Lights

CAUTION: Raise feeder house and lower safety stop before replacing or adjusting headlights.

Light Emitting Diode (LED) lights (A) are on both sides of cab as shown.



H119681—UN—20OCT16

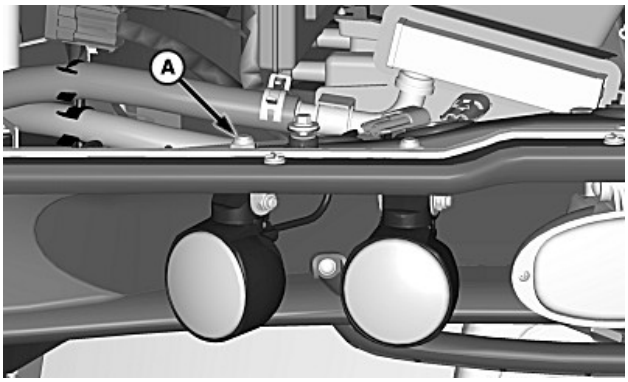
A—Cap Screw and Washer (2 used)
B—Cap Screw and Washer (19 used)
C—Cab Roof
D—Antenna

NOTE: Remove GreenStar™ position receiver if equipped.

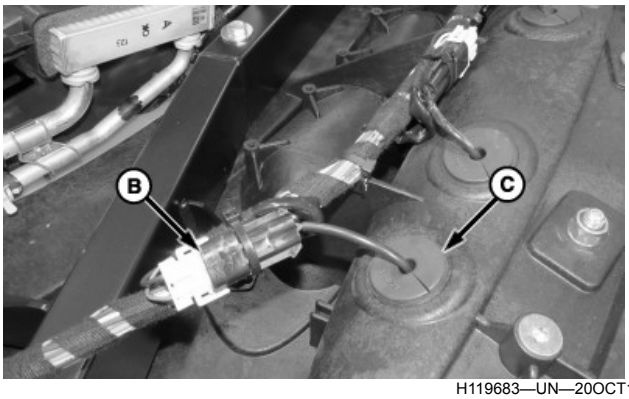
Remove cap screws and washers (A and B).

Lift front left-hand side of cab roof (C) and disconnect the antenna (D).

Remove front portion of cab roof.



H119701—UN—25OCT16



H119683—UN—20OCT16

A—Cap Screw and Nut
B—Connector
C—Grommet

Remove cap screw and nut (A).

Unplug wiring harness connector (B) and remove grommet (C).

Remove and discard light assembly.

Install light assembly in reverse order.

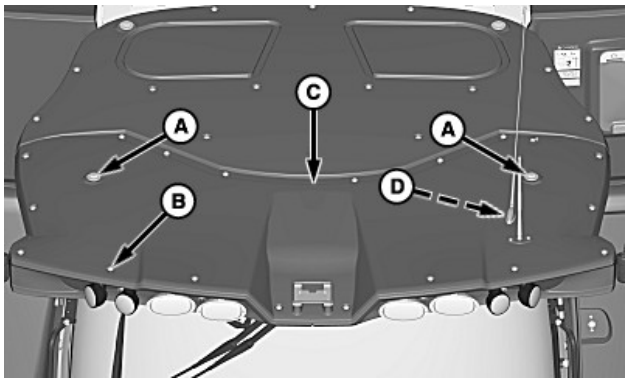
Tighten cap screw and nut to specification.

Specification

Nut—Torque. . . . . 30 N·m (22 lb·ft)

Rotate light housing to previous operating position.

Repeat on remaining lights as needed.



H119681—UN—20OCT16

A—Cap Screw and Washer (2 used)
B—Cap Screw and Washer (19 used)
C—Cab Roof
D—Antenna

Connect antenna (D) and install the cab roof (C).

Install cap screws (B) and tighten to specification.

Specification

Cap Screws—Torque. . . . . 6 N·m (53 lb·in)

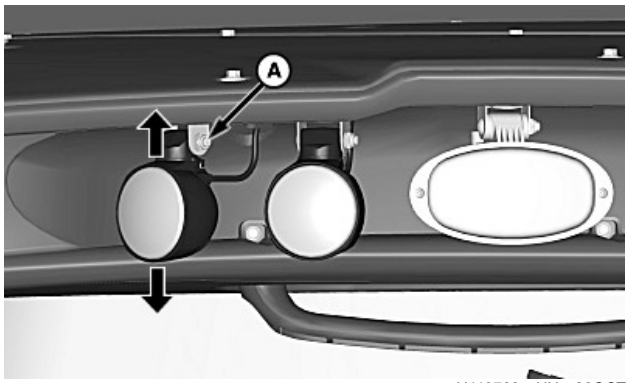
Install cap screws (A) and tighten to specification.

Specification

Cap Screws—Torque. . . . . 10 N·m (89 lb·in)

OUO6075,000435E-19-30JAN17

Light Emitting Diode (LED) Lights (Optional)—Adjusting



H119703—UN—26OCT16

A—Cap Screw

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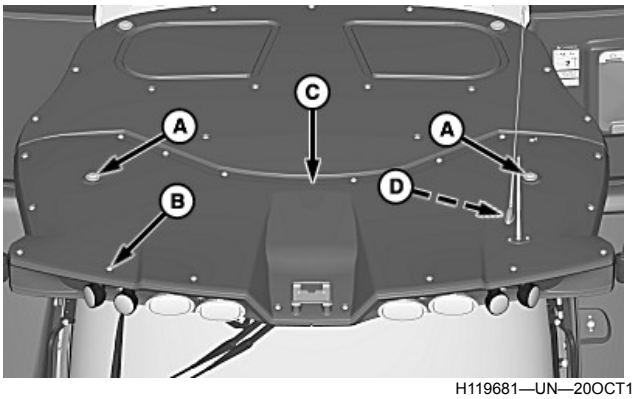
CAUTION: Raise feeder house and lower safety stop before replacing or adjusting headlights.

NOTE: Light assemblies can be adjusted as needed to achieve correct lighting angles.

Vertical Adjustment

Loosen cap screw (A). Rotate light assembly up or down to desired position and tighten cap screw. Repeat on remaining lights as needed.

Horizontal Adjustment



H119681—UN—20OCT16

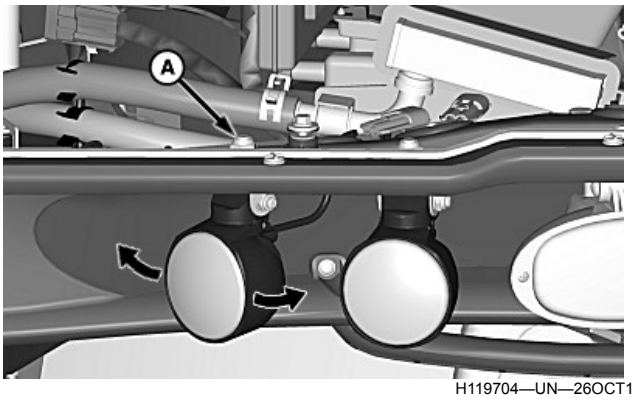
A—Cap Screw and Washer (2 used)
B—Cap Screw and Washer (19 used)
C—Cab Roof
D—Antenna

NOTE: Remove GreenStar™ position receiver if equipped.

Remove cap screws and washers (A and B).

Lift front left-hand side of cab roof (C) and disconnect the antenna (D).

Remove front portion of cab roof.



H119704—UN—26OCT16

A—Cap Screw and Nut

Loosen cap screw and nut (A).

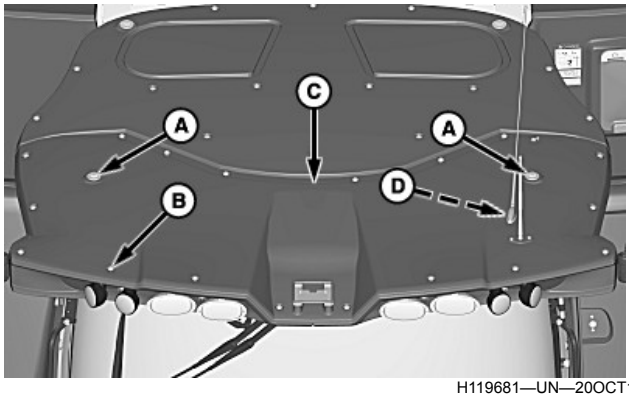
Rotate light assembly left or right to desired position.

Tighten cap screw and nut to specification.

Specification

Nut—Torque. . . . . 30 N·m (22 lb·ft)

Repeat on remaining lights as needed.



H119681—UN—20OCT16

A—Cap Screw and Washer (2 used)
B—Cap Screw and Washer (19 used)
C—Cab Roof
D—Antenna

Connect antenna (D) and install the cab roof (C).

Install cap screws (B) and tighten to specification.

Specification

Cap Screws—Torque. . . . . 6 N·m (53 lb·in)

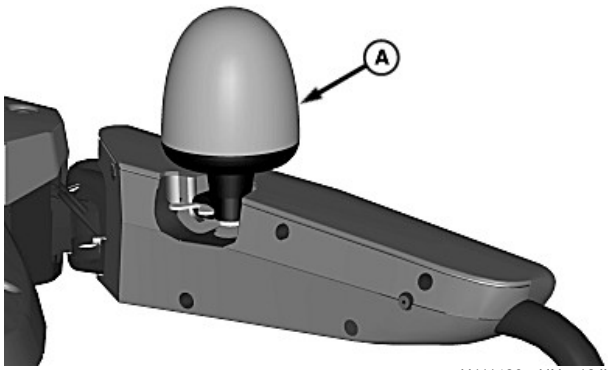
Install cap screws (A) and tighten to specification.

Specification

Cap Screws—Torque. . . . . 10 N·m (89 lb·in)

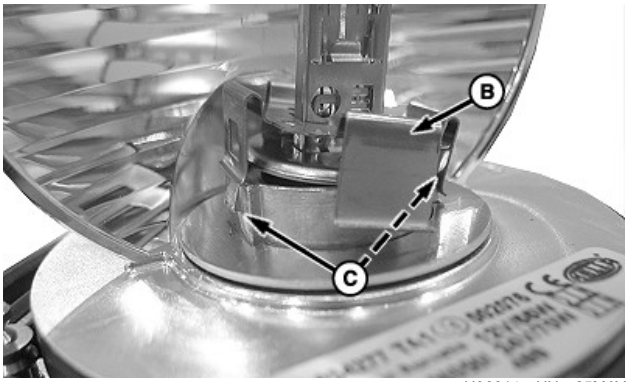
OUO6075,000435F-19-30JAN17

Replace Beacon Lights (Style A)

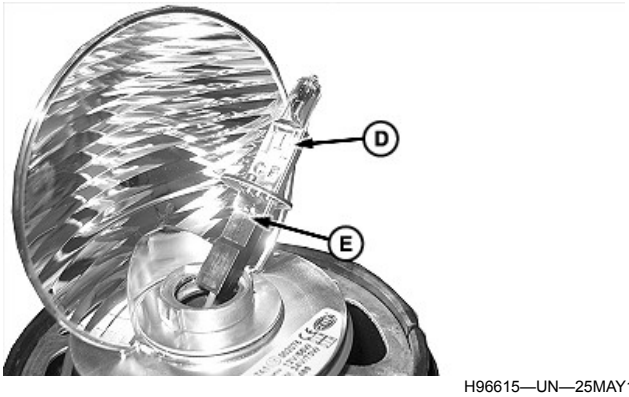


H111426—UN—12JUN14

GreenStar is a trademark of Deere & Company



H96614—UN—25MAY10



H96615—UN—25MAY10

A—Lens
B—Clip
C—Locking Tab
D—Bulb Assembly
E—Connector

⚠ CAUTION: Raise feeder house and lower safety stop before replacing beacon lights.

Push down on lens (A) and turn counterclockwise to remove.

Pry clip (B) from locking tab (C).

Remove bulb assembly (D) from connector (E).

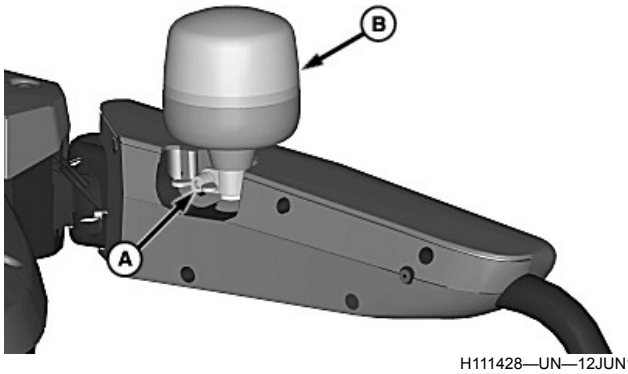
NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Replace bulb and install in reverse order.

Repeat on remaining lights as needed.

OUO6075,0004582-19-18JAN17

Replace Beacon Light (Style B)



H111428—UN—12JUN14

A—Wing Nut
B—Beacon Light

⚠ CAUTION: Raise feeder house and lower safety stop before replacing beacon lights.

NOTE: Light emitting diodes are required to meet local and government regulations for road transport height requirements depending on certain tire sizes.

Loosen wing nut (A) and remove beacon light (B) from the electrical outlet.

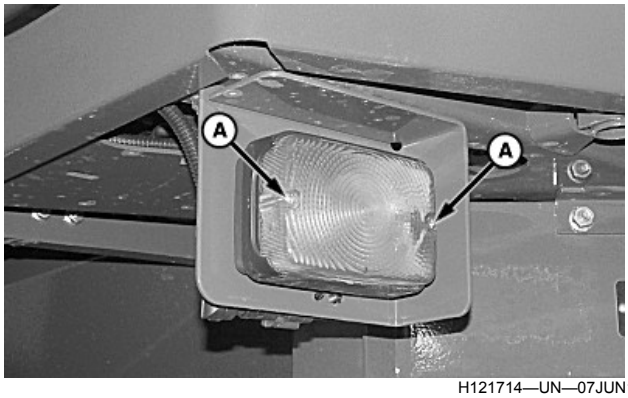
Remove and replace beacon light assembly.

Push down on beacon light assembly to ensure that there is good connection with the electrical outlet and tighten the wing nut.

Repeat on remaining lights as needed.

OUO6075,000478B-19-28JUN17

Warning Lights—Replacing



H121714—UN—07JUN17
Right-Hand Front Warning Light

A—Bulb Assembly

Remove screws (A) from lens cover.

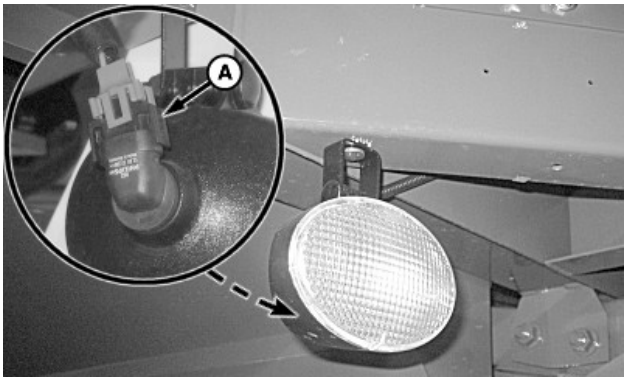
Remove light bulb by pushing in and turning counterclockwise.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Install bulb and lens cover in reverse order.

OUO6075,000475A-19-27JUN17

Discharge Lights, Auxiliary Field Lights, Access Door Work Lights, Stubble Lights, Grain Tank and Unloading Auger Light—Replacing



H96617—UN—25MAY10

Right-Hand Stubble Light

A—Connector

Disconnect wiring harness connector (A) from bulb assembly.

Turn bulb assembly counterclockwise and remove.

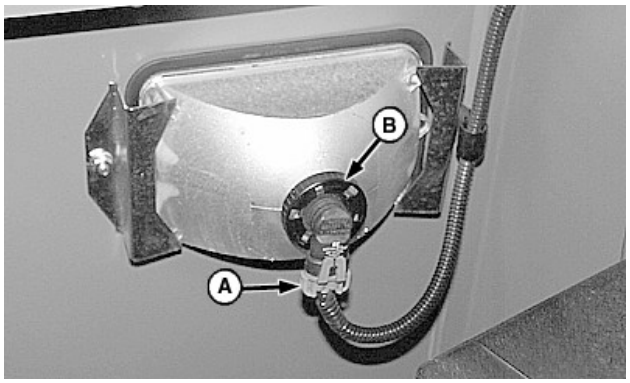
Remove and replace bulb.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Push in bulb assembly and turn clockwise to install into housing and connect wiring harness.

OUO6075,0000781-19-04NOV10

Side Finder Lights and Cleaning Shoe Lights—Replacing



H57680—UN—28MAY99

A—Connector
B—Retainer Ring

Disconnect wiring harness connector (A) from bulb assembly.

Push in and twist retainer ring (B) counterclockwise and remove.

Remove and replace bulb.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Install bulb assembly in reverse order and connect wiring harness.

OUO6075,0000782-19-04NOV10

Warning Lights—Replacing



H69242—UN—12JUL01

A—Lens Cover

Pry off lens cover (A).

Remove bulb by pushing in and turning counterclockwise.

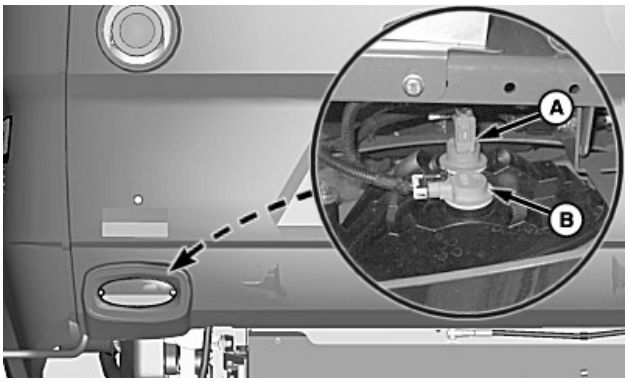
Remove and replace bulb.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Install bulb and lens cover in reverse order.

OUO6075,0000A80-19-04NOV10

Rear Hazard Lights and Marker/Brake Lights—Replacing



H105998—UN—16JAN13

A—Hazard Light
B—Marker/Brake Light

Turn bulb of hazard light (A) or marker/brake light (B) counterclockwise and remove.

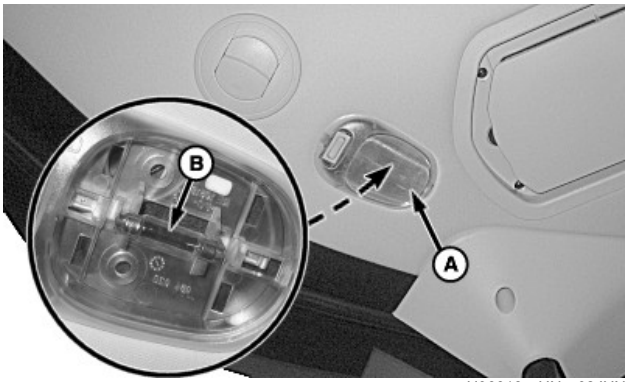
Remove and replace bulb.

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Push in bulb assembly and turn clockwise to install into housing.

OUO6075,00012C9-19-23OCT12

Cab Interior Light—Replacing



H96618—UN—02JUN10

A—Lens Cover
B—Bulb

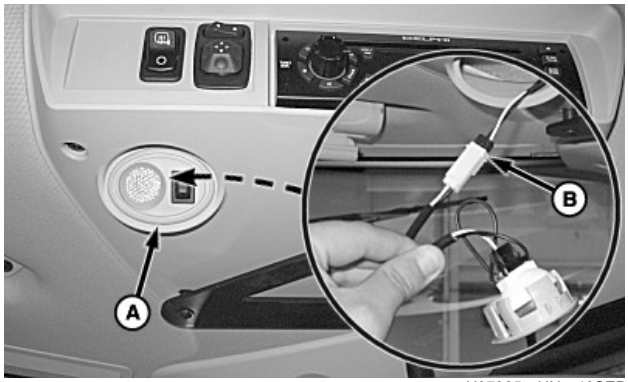
Remove lens cover (A) and replace bulb (B).

NOTE: Replacement light bulbs are sensitive to skin contact. Wear protective gloves or avoid touching light bulb surface.

Install bulb and lens cover in reverse order.

OUO6075,0000783-19-04NOV10

Map Light—Replacing



H97965—UN—13SEP10

A—Map Light Assembly
B—Connector

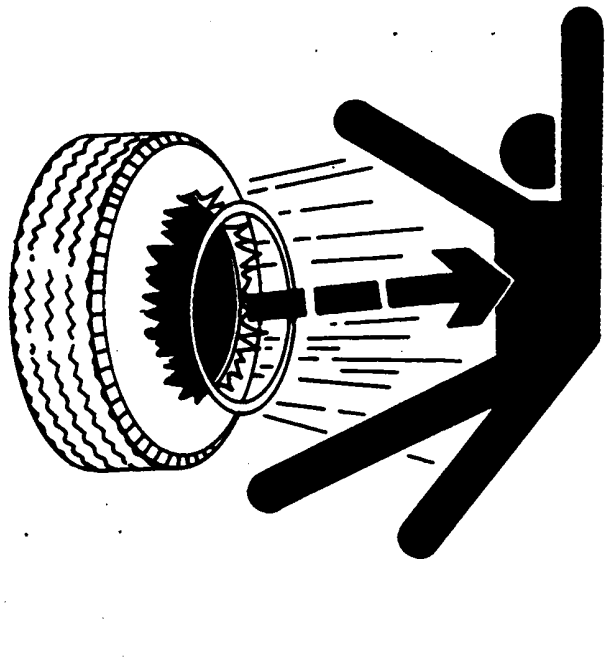
Remove map light assembly (A) and disconnect wiring harness connector (B).

Remove and replace map light assembly.

Install and orient map light assembly in reverse order as shown.

OUO6075,00009AF-19-13SEP10

Service Tires Safely



TS211—UN—15APR13

CAUTION: Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.

DX,RIM1-19-27OCT08

Roadway Transport with Header Attached

Observe national and local laws regarding operation of the combine on public roadways.

Roadway transport in Germany must be approved by your local TUEV to achieve a road permission.

Apply for allowance at your dealership or at manufacturing factory.

OUO6075,0004673-19-16MAR17

Care and Service of Tires

IMPORTANT: Installing tires that do not meet original equipment tire specifications may cause machine malfunction. Consult your dealer or tire supplier for guidance.

Use of substandard tires or larger than recommended tires will void warranty and may decrease stability, affect steering, result in premature tire failure, or cause other durability or safety issues.

Check tires daily for damage or noticeably low pressure.

At least every 100 hours of operation, check tire pressure. If tires contain liquid ballast, use a special air-water gauge and measure with valve stem at bottom.

A small puncture in a tubeless tire can be temporarily repaired without dismounting the tire, thus avoiding down time during a busy season.

Protect tires from exposure to sunlight, petroleum products, and chemicals.

Drive carefully. Try to avoid rocks and sharp objects.

IMPORTANT: A permanent repair should be made as soon as possible to prevent further tire damage.

NOTE: Tire information and specifications are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice. See the online Combine Ag Sales Manual or your John Deere dealer for further information on Tire Pressure Charts.

Tire pressures listed in charts may differ from the tire pressures shown on the side of the tires.

Header compatibility and specified inflation pressures are based on front axle load of a coarse grain configuration.

Load varies based on configuration. This may not reflect the worst case scenario. Consult your local tire dealer if in doubt.

Not all tires are available on all machines or at all manufacturing facilities.

Onboard Air Compressor (if equipped) - not recommended to inflate tires on the machine or run air tools.

OUO6075,0004635-19-20MAR17

Front Tire Pressure (Single Tire Level Land Configuration) (Corn Heads)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700 Series Corn Heads are compatible for 600 Series Corn Heads.

Front Tire Size (Load Index)	Model	No Head/ Trans-port[a]	706C 706C-SM	708C 708C-SM	712C	712C-SM	708FC[b] 708FC-SM[b]	712FC[b] 712FC-SM[bc]	716C 718C	716C-SM 718C-SM
		Air Pressure kPa (psi)								
800/65R32 R1W (172A8)	S760	159 (23)	234 (34)	283 (41)	NR	NR	NR	NR	NR	NR
800/70R38 R1W (173A8)	S760	117 (17)	179 (26)	200 (29)	200 (29)	NR	NR	NR	NR	NR
	S770	117 (17)	NR	200 (29)	NR	NR	NR	NR	NR	NR
IF800/70R38 CFO R1W (187A8/B)	S760	159 (23)	159 (23)	159 (23)	159 (23)	NR	207 (30)	NR	NR	NR
	S770	159 (23)	NR	159 (23)	159 (23)	159 (23)	221 (32)	283 (41)	200 (29)	NR
	S780 S790	159 (23)	NR	NR	179 (26)	200 (29)	241 (35)	283 (41)	241 (35)	262 (38)
IF800/70R38 CFO+ TL CEREXBIB2 (187A8)	S760	117 (17)	117 (17)	117 (17)	131 (19)	NR	193 (28)	NR	NR	NR
	S770	117 (17)	NR	117 (17)	131 (19)	152 (22)	207 (30)	262 (38)	159 (23)	NR
	S780 S790	117 (17)	NR	NR	152 (22)	152 (22)	228 (33)	262 (38)	193 (28)	200 (29)
LSW800/55R46 R1W (190D)	S760	138 (20)	179 (26)	200 (29)	241 (35)	NR	241 (35)	NR	NR	NR
	S770	138 (20)	NR	200 (29)	241 (35)	262 (38)	262 (38)	303 (44)	283 (41)	NR
	S780 S790	138 (20)	NR	NR	283 (41)	283 (41)	283 (41)	303 (44)	317 (46)	NR
IF900/60R32 CFO R1 (182B)	S760	117 (17)	138 (20)	159 (23)	179 (26)	NR	NR	NR	NR	NR
	S770	117 (17)	NR	159 (23)	179 (26)	179 (26)	NR	NR	221 (32)	NR
	S780 S790	117 (17)	NR	NR	221 (32)	221 (32)	NR	NR	NR	NR
IF900/65R32 CFO R2 (191A8)	S760	103 (15)	117 (17)	138 (20)	159 (23)	NR	221 (32)	NR	NR	NR
	S770	103 (15)	NR	138 (20)	159 (23)	179 (26)	241 (35)	283 (41)	200 (29)	NR
	S780 S790	103 (15)	NR	NR	179 (26)	200 (29)	241 (35)	283 (41)	241 (35)	262 (38)
LSW1100/45R46 R1W (195D)	S760	103 (15)	117 (17)	117 (17)	138 (20)	NR	179 (26)	NR	NR	NR
	S770	103 (15)	NR	117 (17)	138 (20)	138 (20)	179 (26)	241 (35)	159 (23)	NR
	S780 S790	103 (15)	NR	NR	159 (23)	159 (23)	200 (29)	241 (35)	179 (26)	200 (29)
IF1250/50R32 CFO R1W (201B)	S760	83 (12)	103 (15)	103 (15)	117 (17)	NR	138 (20)	NR	NR	NR
	S770	83 (12)	NR	103 (15)	117 (17)	117 (17)	138 (20)	159 (23)	138 (20)	NR
	S780 S790	83 (12)	NR	NR	117 (17)	138 (20)	138 (20)	179 (26)	138 (20)	159 (23)

Front Tire Size (Load Index)	Model	No Head/ Trans-port[a]	706C 706C-SM	708C 708C-SM	712C	712C-SM	708FC[b] 708FC-SM[b]	712FC[b] 712FC-SM[bc]	716C 718C	716C-SM 718C-SM
		Air Pressure kPa (psi)								
680/85R32 AC70G TL (178A8)	S760	145 (21)	200 (29)	241 (35)	283 (41)	NR	NR	NR	NR	NR
	S770	145 (21)	NR	241 (35)	283 (41)	324 (47)	NR	NR	400 (58)	NR
	S780 S790	200 (29)	NR	NR	400 (58)	400 (58)	NR	NR	400 (58)	NR
680/85R32 CHO AC70G TL (178A8)	S760	145 (21)	200 (29)	200 (29)	241 (35)	NR	NR	NR	NR	NR
	S770	145 (21)	NR	200 (29)	241 (35)	241 (35)	NR	NR	324 (47)	NR
	S780 S790	200 (29)	NR	NR	283 (41)	283 (41)	NR	NR	400 (58)	NR
VF 710/70R42 CFO HC3000 TL (190B)	S760	159 (23)	159 (23)	159 (23)	200 (29)	NR	241 (35)	NR	NR	NR
	S770	159 (23)	NR	200 (29)	241 (35)	241 (35)	241 (35)	283 (41)	283 (41)	NR
	S780 S790	159 (23)	NR	NR	283 (41)	283 (41)	241 (35)	283 (41)	317 (46)	317 (46)
800/65R32 AC70N TL (178A8)	S760	165 (24)	241 (35)	283 (41)	283 (41)	NR	NR	NR	NR	NR
	S770	165 (24)	NR	283 (41)	324 (47)	324 (47)	NR	NR	400 (58)	NR
800/70R32 CHO SFT TL (175A8)	S760	124 (18)	145 (21)	165 (24)	200 (29)	NR	NR	NR	NR	NR
	S770	145 (21)	NR	165 (24)	200 (29)	200 (29)	NR	NR	NR	NR
	S780 S790	145 (21)	NR	NR	241 (35)	NR	NR	NR	NR	NR
800/70R38 SFT TL (181A8)	S760	83 (12)	165 (24)	165 (24)	200 (29)	NR	NR	NR	NR	NR
	S770	103 (15)	NR	165 (24)	200 (29)	241 (35)	NR	NR	283 (41)	NR
	S780 S790	103 (15)	NR	NR	283 (41)	283 (41)	NR	NR	NR	NR
900/60R32 SFT TL (176A8)	S760	117 (17)	241 (35)	241 (35)	241 (35)	NR	NR	NR	NR	NR
	S770	159 (23)	NR	241 (35)	241 (35)	283 (41)	NR	NR	NR	NR
	S780 S790	159 (23)	NR	NR	NR	NR	NR	NR	NR	NR
900/60R38 SFT TL (181A8)	S760	103 (15)	159 (23)	159 (23)	200 (29)	NR	NR	NR	NR	NR
	S770	103 (15)	NR	200 (29)	241 (35)	241 (35)	NR	NR	283 (41)	NR
	S780 S790	117 (17)	NR	NR	283 (41)	283 (41)	NR	NR	NR	NR

C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head
FC-SM = Folding Corn Head with StalkMaster™
NR = Indicates a non-recommended combination.

StalkMaster is a trademark of Deere & Company
[a] *Indicates road transport configuration (no header, no grain in tank).*
[b] *Pressure specified for Folding Corn Head (FC) tires are adequate for both road transport and field use.*
[c] *712FC-SM not recommended with this configuration.*

OUO6075,00048E6-19-10MAY18

Front Tire Pressure (Dual Tire Level Land Configuration) (Corn Heads)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700 Series Corn Heads are compatible for 600 Series Corn Heads.

Front Tire Size (Load Index)	Model	No Head/ Trans-port[a]	706C 706C-SM	708C 708C-SM	712C	712C-SM	708FC[b] 708FC-SM[b]	712FC[b] 712FC-SM[bc]	716C 718C	716C-SM 718C-SM
		Air Pressure kPa (psi)								
520/85R42 R1 Duals (157A8)	S760	117 (17)	179 (26)	179 (26)	200 (29)	NR	NR	NR	NR	NR
	S770	117 (17)	NR	179 (26)	200 (29)	200 (29)	NR	NR	200[d] (29)[d]	NR
520/85R42 R2 Duals (165A8)	S760	117 (17)	179 (26)	179 (26)	200 (29)	NR	NR	NR	NR	NR
	S770	117 (17)	NR	179 (26)	200 (29)	200 (29)	NR	NR	248 (36)	NR
	S780 S790	138 (20)	NR	NR	248 (36)	248 (36)	NR	NR	303 (44)	331 (48)
IF520/85R42 CFO R1W Duals (169B)	S760	117 (17)	117 (17)	138 (20)	138 (20)	NR	179 (26)	NR	NR	NR
	S770	117 (17)	NR	138 (20)	138 (20)	138 (20)	200 (29)	241 (35)	159 (23)	NR
	S780 S790	117 (17)	NR	NR	159 (23)	159 (23)	221 (32)	262 (38)	179 (26)	221 (32)
VF520/85R42 CFO+ TL CEREXBIB2 Duals (177A8)	S760	152 (22)	117 (17)	117 (17)	117 (17)	NR	138 (20)	NR	NR	NR
	S770	159 (23)	NR	117 (17)	117 (17)	131 (19)	159 (23)	159 (23)	172 (25)	NR
	S780 S790	159 (23)	NR	NR	131 (19)	152 (23)	159 (23)	179 (26)	193 (28)	207 (30)
580/85R42 R1W Duals (166A8)	S760	103 (15)	145 (21)	159 (23)	159 (23)	NR	200 (29)	NR	NR	NR
	S770	103 (15)	NR	159 (23)	159 (23)	179 (26)	200 (29)	NR	200 (29)	NR
	S780 S790	103 (15)	NR	NR	179 (26)	200 (29)	200 (29)	NR	200 (29)	228 (33)
650/85R38 R1W Duals (173A8)	S760	103 (15)	124 (18)	145 (21)	145 (21)	NR	159 (23)	NR	NR	NR
	S770	103 (15)	NR	145 (21)	159 (23)	159 (23)	159 (23)	207 (30)	159 (23)	NR
	S780 S790	103 (15)	NR	NR	159 (23)	159 (23)	159 (23)	207 (30)	200 (29)	200 (29)

C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head
FC-SM = Folding Corn Head with StalkMaster™
NR = Indicates a non-recommended combination.

StalkMaster is a trademark of Deere & Company
[a]Indicates road transport configuration (no header, no grain in tank).
[b]Pressure specified for Folding Corn Head (FC) tires are adequate for both road transport and field use.
[c]712FC-SM not recommended with this configuration.
[d]718C not recommended with this configuration.

OUO6075,00048E7-19-10MAY18

Front Tire Pressure (Single Tire HillMaster™ Configuration) (Corn Heads)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700 Series Corn Heads are compatible for 600 Series Corn Heads.

Front Tire Size (Load Index)	Model	No Head/Transport[a]	706C 706C-SM 708C 708C-SM	712C 712C-SM 716C 716C-SM 718C 718C-SM
		Air Pressure bar (psi)		
680/85R32 AC70G TL (178A8)	S780 HM	2.00 (29)	2.83 (41)	NR
680/85R32 CHO AC70G TL (178A8)	S780 HM	2.00 (29)	2.41 (35)	NR
IF680/85R32 CFO TL CEREXBIB (179A8)	S780 HM	1.17 (17)	1.72 (25)	NR
IF800/70R32 CFO+ TL CEREXBIB2 (185A8)	S780 HM	1.17 (17)	1.59 (23)	NR
800/70R32 CHO SFT TL (175A8)	S780 HM	1.45 (21)	1.65 (24)	NR
C = Corn Head C-SM = Corn Head with StalkMaster™ HM = HillMaster™ NR = Indicates a non-recommended combination.				

StalkMaster is a trademark of Deere & Company
HillMaster is a trademark of Deere & Company
[a] *Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048E8-19-10MAY18

Front Tire Pressure (Single Tire Level Land Configuration) (Belt Pickup / Platforms / Drapers)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700D and 700FD Series Drapers are compatible for 600D and 600FD Series Drapers.

Front Tire Size (Load Index)	Model	No Head/ Trans-port[a]	615 BPU	618R/F 620R/F 622R/F	625R/F 630R/F 622X	635F	725D 625X	730D 730FD 630X	735D 735FD 635X	740D[b] 740FD[b] 640X[b]	745FD[b]
		Air Pressure kPa (psi)									
800/65R32 R1W (172A8)	S760	159 (23)	234 (34)	234 (34)	283 (41)	NR	NR	NR	NR	NR	NR
800/70R38 R1W (173A8)	S760	117 (17)	179 (26)	200 (29)	200 (29)	NR	200 (29)	200 (29)	NR	NR	NR
	S770	117 (17)	179 (26)	200 (29)	NR	NR	NR	NR	NR	NR	NR
IF800/70R38 CFO R1W (187A8/B)	S760	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	179 (26)	NR	NR
	S770	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	179 (26)	179 (26)	NR
	S780 S790	159 (23)	159 (23)	NR	179 (26)	200 (29)	179 (26)	200 (29)	200 (29)	221 (32)	241 (35)
IF800/70R38 CFO+ TL CEREXBIB2 (187A8)	S760	117 (17)	117 (17)	117 (17)	131 (19)	131 (19)	131 (19)	131 (19)	152 (22)	NR	NR
	S770	117 (17)	117 (17)	117 (17)	131 (19)	152 (22)	131 (19)	131 (19)	152 (22)	152 (22)	NR
	S780 S790	117 (17)	117 (17)	NR	152 (22)	152 (22)	152 (22)	152 (22)	159 (23)	172 (25)	193 (28)
LSW800/55R46 R1W (190D)	S760	138 (20)	179 (26)	200 (29)	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)	NR	NR
	S770	138 (20)	179 (26)	221 (32)	262 (38)	241 (35)	241 (35)	241 (35)	262 (38)	283 (41)	NR
	S780 S790	138 (20)	221 (32)	NR	283 (41)	283 (41)	283 (41)	283 (41)	303 (44)	303 (44)	317 (46)
IF900/60R32 CFO R1 (182B)	S760	117 (17)	138 (20)	159 (23)	159 (23)	179 (26)	179 (26)	200 (29)	221 (32)	NR	NR
	S770	117 (17)	138 (20)	179 (26)	179 (26)	179 (26)	179 (26)	200 (29)	221 (32)	221 (32)	NR
	S780 S790	117 (17)	159 (23)	NR	221 (32)	221 (32)	221 (32)	221 (32)	241 (35)	NR	NR
IF900/65R32 CFO R2 (191A8)	S760	103 (15)	117 (17)	138 (20)	159 (23)	159 (23)	159 (23)	179 (26)	179 (26)	NR	NR
	S770	103 (15)	117 (17)	138 (20)	159 (23)	159 (23)	159 (23)	179 (26)	179 (26)	200 (29)	NR
	S780 S790	103 (15)	138 (20)	NR	179 (26)	200 (29)	200 (29)	200 (29)	221 (32)	221 (32)	241 (35)
LSW1100/45R46 R1W (195D)	S760	103 (15)	117 (17)	117 (17)	138 (20)	138 (20)	138 (20)	138 (20)	138 (20)	NR	NR
	S770	103 (15)	117 (17)	117 (17)	138 (20)	138 (20)	138 (20)	138 (20)	138 (20)	159 (23)	NR
	S780 S790	103 (15)	138 (20)	NR	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	179 (26)	179 (26)
IF1250/50R32 CFO R1W (201B)	S760	83 (12)	83 (12)	103 (15)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	83 (12)	83 (12)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR

Front Tire Size (Load Index)	Model	No Head/ Trans-port[a]	615 BPU	618R/F 620R/F 622R/F	625R/F 630R/F 622X	635F	725D 625X	730D 730FD 630X	735D 735FD 635X	740D[b] 740FD[b] 640X[b]	745FD[b]
		Air Pressure kPa (psi)									
	S780 S790	83 (12)	103 (15)	NR	117 (17)	117 (17)	117 (17)	138 (20)	138 (20)	138 (20)	138 (20)
680/85R32 AC70G TL (178A8)	S760	145 (21)	200 (29)	283 (41)	283 (41)	283 (41)	283 (41)	324 (47)	324 (47)	NR	NR
	S770	145 (21)	200 (29)	283 (41)	283 (41)	283 (41)	283 (41)	324 (47)	324 (47)	400 (58)	NR
	S780 S790	200 (29)	283 (41)	NR	324 (47)	400 (58)	400 (58)	400 (58)	400 (58)	400 (58)	400 (58)
680/85R32 CHO AC70G TL (178A8)	S760	145 (21)	200 (29)	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)	324 (47)	NR	NR
	S770	145 (21)	200 (29)	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)	324 (47)	324 (47)	NR
	S780 S790	200 (29)	200 (29)	NR	241 (35)	283 (41)	283 (41)	324 (47)	324 (47)	324 (47)	324 (47)
VF 710/70R42 CFO HC3000 TL (190B)	S760	159 (23)	159 (23)	200 (29)	200 (29)	241 (35)	200 (29)	241 (35)	241 (35)	NR	NR
	S770	159 (23)	159 (23)	200 (29)	200 (29)	241 (35)	241 (35)	241 (35)	241 (35)	283 (41)	NR
	S780 S790	159 (23)	200 (29)	NR	241 (35)	283 (41)	283 (41)	283 (41)	283 (41)	317 (46)	317 (46)
800/65R32 AC70N TL (178A8)	S760	165 (24)	200 (29)	283 (41)	283 (41)	324 (47)	283 (41)	283 (41)	324 (47)	NR	NR
	S770	165 (24)	241 (35)	283 (41)	283 (41)	324 (47)	324 (47)	324 (47)	324 (47)	400 (58)	NR
800/70R32 CHO SFT TL (175A8)	S760	124 (18)	145 (21)	165 (24)	165 (24)	200 (29)	200 (29)	200 (29)	200 (29)	NR	NR
	S770	145 (21)	145 (21)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	241 (35)	NR	NR
	S780 S790	145 (21)	165 (24)	NR	241 (35)	241 (35)	241 (35)	241 (35)	NR	NR	NR
800/70R38 SFT TL (181A8)	S760	83 (12)	165 (24)	200 (29)	200 (29)	241 (35)	200 (29)	241 (35)	241 (35)	NR	NR
	S770	103 (15)	165 (24)	200 (29)	200 (29)	241 (35)	241 (35)	241 (35)	283 (41)	NR	NR
	S780 S790	103 (15)	200 (29)	NR	241 (35)	283 (41)	283 (41)	283 (41)	NR	NR	NR
900/60R32 SFT TL (176A8)	S760	117 (17)	159 (23)	241 (35)	241 (35)	241 (35)	241 (35)	283 (41)	283 (41)	NR	NR
	S770	159 (23)	159 (23)	241 (35)	241 (35)	241 (35)	241 (35)	283 (41)	283 (41)	NR	NR
	S780 S790	159 (23)	241 (35)	NR	283 (41)	NR	NR	NR	NR	NR	NR
900/60R38 SFT TL (181A8)	S760	103 (15)	159 (23)	200 (29)	200 (29)	241 (35)	241 (35)	241 (35)	241 (35)	NR	NR
	S770	103 (15)	159 (23)	200 (29)	241 (35)	241 (35)	241 (35)	241 (35)	283 (41)	NR	NR
	S780 S790	117 (17)	200 (29)	NR	283 (41)	283 (41)	283 (41)	283 (41)	NR	NR	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
NR = Indicates a non-recommended combination.

[a] *Indicates road transport configuration (no header, no grain in tank).*
[b] *Use of 800/900 single tires with 740D, 740FD, 745FD, and 640X heads may lead to excessive play in feeder house.*

OUO6075,00048E9-19-24APR18

Front Tire Pressure (Dual Tire Level Land Configuration) (Belt Pickup / Platforms / Drapers)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700D and 700FD Series Drapers are compatible for 600D and 600FD Series Drapers.

Front Tire Size (Load Index)	Model	No Head/ Trans-port[a]	615 BPU	618R/F 620R/F 622R/F	625R/F 630R/F 622X	635F	725D 625X	730D 730FD 630X	735D 735FD 635X	740D[b] 740FD[b] 640X[b]	745FD[b]
		Air Pressure kPa (psi)									
520/85R42 R1 Duals (157A8)	S760	117 (17)	159 (23)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR	NR
	S770	117 (17)	179 (26)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR	NR
520/85R42 R2 Duals (165A8)	S760	117 (17)	179 (26)	179 (26)	200 (29)	200 (29)	200 (29)	200 (29)	228 (33)	NR	NR
	S770	117 (17)	179 (26)	179 (26)	200 (29)	200 (29)	200 (29)	200 (29)	228 (33)	248 (36)	NR
	S780 S790	138 (20)	200 (29)	NR	228 (33)	248 (36)	248 (36)	248 (36)	276 (40)	276 (40)	303 (44)
IF520/85R42 CFO R1W Duals (169B)	S760	117 (17)	117 (17)	117 (17)	138 (20)	138 (20)	138 (20)	138 (20)	159 (23)	NR	NR
	S770	117 (17)	117 (17)	117 (17)	138 (20)	138 (20)	138 (20)	138 (20)	159 (23)	159 (23)	NR
	S780 S790	117 (17)	138 (20)	NR	159 (23)	159 (23)	159 (23)	159 (23)	179 (26)	179 (26)	179 (26)
VF520/85R42 CFO+ TL CEREXBIB2 Duals (177A8)	S760	152 (22)	117 (17)	117 (17)	131 (19)	138 (20)	138 (20)	138 (20)	152 (22)	NR	NR
	S770	159 (23)	117 (17)	117 (17)	138 (20)	138 (20)	138 (20)	138 (20)	152 (22)	152 (22)	NR
	S780 S790	159 (23)	131 (19)	NR	152 (22)	152 (22)	152 (22)	172 (25)	172 (25)	172 (25)	193 (28)
580/85R42 R1W Duals (166A8)	S760	103 (15)	145 (21)	145 (21)	159 (23)	159 (23)	159 (23)	179 (26)	179 (26)	NR	NR
	S770	103 (15)	145 (21)	145 (21)	159 (23)	159 (23)	159 (23)	179 (26)	179 (26)	179 (26)	NR
	S780 S790	103 (15)	159 (23)	NR	179 (26)	179 (26)	179 (26)	200 (29)	200 (29)	200 (29)	200 (29)
650/85R38 R1W Duals (173A8)	S760	103 (15)	124 (18)	145 (21)	145 (21)	159 (23)	145 (21)	145 (21)	159 (23)	NR	NR
	S770	103 (15)	124 (18)	145 (21)	145 (21)	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)	NR
	S780 S790	103 (15)	145 (21)	NR	159 (23)	159 (23)	159 (23)	159 (23)	200 (29)	200 (29)	200 (29)

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
NR = Indicates a non-recommended combination.

[a] *Indicates road transport configuration (no header, no grain in tank).*
[b] *Use of 800/900 single tires with 740D, 740FD, 745FD, and 640X heads may lead to excessive play in feeder house.*

OUO6075,00048EA-19-24APR18

Front Tire Pressure (Single Tire HillMaster™ Configuration) (Belt Pickup / Platforms / Drapers)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700D and 700FD Series Drapers are compatible for 600D and 600FD Series Drapers.

Front Tire Size (Load Index)	Model	No Head/ Transport[a]	615 BPU	618R/F	620R/F 622R/F 625R/F 622X	630R/F 725D 625X	730D 630X	635F 735D 635X	740D 640X
		Air Pressure bar (psi)							
680/85R32 AC70G TL (178A8)	S780 HM	2.00 (29)	2.00 (29)	2.00 (29)	2.83 (41)	2.83 (41)	3.24 (47)	NR	NR
680/85R32 CHO AC70G TL (178A8)	S780 HM	2.00 (29)	2.00 (29)	2.00 (29)	2.83 (41)	2.83 (41)	2.83 (41)	NR	NR
IF680/85R32 CFO TL CEREXBIB (179A8)	S780 HM	1.17 (17)	1.52 (22)	1.52 (22)	1.72 (25)	2.00 (29)	2.28 (33)	NR	NR
IF800/70R32 CFO+ TL CEREXBIB2 (185A8)	S780 HM	1.17 (17)	1.38 (20)	1.38 (20)	1.59 (23)	1.72 (25)	1.93 (28)	NR	NR
800/70R32 CHO SFT TL (175A8)	S780 HM	1.45 (21)	1.45 (21)	1.45 (21)	1.65 (24)	2.00 (29)	2.00 (29)	NR	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
X = Extendable Platform
HM = HillMaster™
NR = Indicates a non-recommended combination.

HillMaster is a trademark of Deere & Company
[a] *Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048EB-19-19APR18

Rear Tire Pressure (Two-Wheel Drive Axle Level Land Configuration) (Corn Heads)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700 Series Corn Heads are compatible for 600 Series Corn Heads.

Rear Tire Size (Load Index)	Model	No Head/ Trans-port[a]	706C 706C-SM	708C 708C-SM	712C	712C-SM	708FC[b] 708FC-SM[b]	712FC[b] 712FC-SM[bc]	716C 718C	716C-SM 718C-SM
		Air Pressure kPa (psi)								
600/70R28 R1W (161A8 / 164A8)	S760	317 (46)	179 (26)	179 (26)	159 (23)	NR	221 (32)	NR	NR	NR
	S770	317 (46)	NR	179 (26)	159 (23)	159 (23)	221 (32)	159 (23)	145 (21)	NR
23.1R26 R1 (166A8)	S760	359 (52)	179 (26)	179 (26)	165 (24)	NR	207 (30)	NR	NR	NR
	S770	359 (52)	NR	179 (26)	165 (24)	165 (24)	207 (30)	165 (24)	138 (20)	NR
VF520/80R26 CFO R1W (168A8)	S760	283 (41)	152 (22)	152 (22)	138 (20)	NR	165 (24)	NR	NR	NR
	S770	283 (41)	NR	152 (22)	138 (20)	138 (20)	165 (24)	165 (24)	117 (17)	NR
620/75R26 R1W (166A8)	S760	317 (46)	200 (29)	200 (29)	159 (23)	NR	200 (29)	NR	NR	NR
	S770	317 (46)	NR	200 (29)	159 (23)	145 (21)	200 (29)	159 (23)	145 (21)	NR
VF620/70R26 CFO+ TL CEREXBIB2 (173A8)	S760	179 (26)	117 (17)	117 (17)	117 (17)	NR	117 (17)	NR	NR	NR
	S770	179 (26)	NR	117 (17)	117 (17)	117 (17)	138 (20)	138 (20)	117 (17)	NR
	S780 S790	262 (38)	NR	NR	138 (20)	117 (17)	138 (20)	117 (17)	117 (17)	117 (17)
VF620/75R26 R1W (172B)	S760	179 (26)	179 (26)	159 (23)	138 (20)	NR	117 (17)	NR	NR	NR
	S770	179 (26)	NR	159 (23)	138 (20)	138 (20)	138 (20)	138 (20)	117 (17)	NR
	S780 S790	241 (35)	NR	NR	200 (29)	200 (29)	200 (29)	200 (29)	159 (23)	159 (23)
VF620/70R26 CFO TL TM3000 (173A8)	S760	179 (26)	117 (17)	117 (17)	117 (17)	NR	117 (17)	NR	NR	NR
	S770	179 (26)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	255 (37)	NR	NR	138 (20)	138 (20)	138 (20)	138 (20)	117 (17)	117 (17)
VF620/75R26 CFO (172A8)	S760	159 (23)	117 (17)	117 (17)	117 (17)	NR	117 (17)	NR	NR	NR
	S770	159 (23)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	221 (32)	NR	NR	138 (20)	117 (17)	138 (20)	117 (17)	117 (17)	117 (17)
750/65R26 R1W (169A8)	S760	255 (37)	159 (23)	145 (21)	124 (18)	NR	159 (23)	NR	NR	NR
	S770	255 (37)	NR	145 (21)	124 (18)	124 (18)	159 (23)	124 (18)	124 (18)	NR
	S780 S790	331 (48)	NR	NR	159 (23)	159 (23)	200 (29)	159 (23)	145 (21)	145 (21)
LSW710/60R30 R1W (177D)	S760	200 (29)	117 (17)	103 (15)	103 (15)	NR	138 (20)	NR	NR	NR

Rear Tire Size (Load Index)	Model	No Head/ Transport[a]	706C 706C-SM	708C 708C-SM	712C	712C-SM	708FC[b] 708FC-SM[b]	712FC[b] 712FC-SM[bc]	716C 718C	716C-SM 718C-SM
		Air Pressure kPa (psi)								
	S770	200 (29)	NR	103 (15)	103 (15)	103 (15)	138 (20)	117 (17)	83 (12)	NR
	S780 S790	262 (38)	NR	NR	117 (17)	117 (17)	179 (26)	159 (23)	117 (17)	103 (15)
VF750/65R26 R1W (177B)	S760	138 (20)	138 (20)	138 (20)	117 (17)	NR	103 (15)	NR	NR	NR
	S770	138 (20)	NR	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	103 (15)	NR
	S780 S790	159 (23)	NR	NR	159 (23)	159 (23)	159 (23)	159 (23)	138 (20)	138 (20)
VF750/65R26 CFO+ TL CEREXBIB2 (180A8)	S760	138 (20)	117 (17)	117 (17)	117 (17)	NR	117 (17)	NR	NR	NR
	S770	138 (20)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	179 (26)	NR	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)
VF710/65R26 R2 (177D)	S760	159 (23)	159 (23)	159 (23)	138 (20)	NR	138 (20)	NR	NR	NR
	S770	159 (23)	NR	159 (23)	138 (20)	117 (17)	138 (20)	117 (17)	117 (17)	NR
	S780 S790	179 (26)	NR	NR	179 (26)	179 (26)	200 (29)	179 (26)	159 (23)	159 (23)
500/85R24 IMP SFT TL (177A8 / 181A8)	S760	317 (46)	200 (29)	200 (29)	200 (29)	NR	200 (29)	200 (29)	NR	NR
	S770	317 (46)	NR	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	400 (58)	NR	NR	241 (35)	241 (35)	283 (41)	241 (35)	200 (29)	200 (29)
500/80R28 IMP SFT TL (176A8 / 182A8)	S760	317 (46)	200 (29)	200 (29)	200 (29)	NR	200 (29)	200 (29)	NR	NR
	S770	317 (46)	NR	200 (29)	200 (29)	179 (26)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	400 (58)	NR	NR	241 (35)	200 (29)	241 (35)	200 (29)	200 (29)	200 (29)

C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head
FC-SM = Folding Corn Head with StalkMaster™
NR = Indicates a non-recommended combination.

StalkMaster is a trademark of Deere & Company

[a] *Indicates road transport configuration (no header, no grain in tank). All road transport shall be done at this pressure (unless Folding Corn Head is installed).*

[b] *Pressure specified for Folding Corn Head (FC) tires are adequate for both road transport and field use.*

[c] *712FC-SM not recommended with this configuration.*

OUO6075,00048EC-19-10MAY18

Rear Tire Pressure (Four-Wheel Drive Axle Level Land Configuration) (Corn Heads)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700 Series Corn Heads are compatible for 600 Series Corn Heads.

Rear Tire Size (Load Index)	Model	No Head/ Trans-port[a]	706C 706C-SM	708C 708C-SM	712C	712C-SM	708FC[b] 708FC-SM[b]	712FC[b] 712FC-SM[bc]	716C 718C	716C-SM 718C-SM
		Air Pressure kPa (psi)								
600/70R28 R1W (161A8 / 164A8)	S760	317 (46)	200 (29)	179 (26)	159 (23)	NR	283 (41)	NR	NR	NR
	S770	317 (46)	NR	179 (26)	159 (23)	159 (23)	283 (41)	179 (26)	179 (26)	NR
23.1R26 R1 (166A8)	S760	359 (52)	179 (26)	179 (26)	165 (24)	NR	NR	NR	NR	NR
	S770	359 (52)	NR	179 (26)	165 (24)	165 (24)	241 (35)	179 (26)	138 (20)	NR
VF520/80R26 CFO R1W (168A8)	S760	283 (41)	159 (23)	159 (23)	138 (20)	NR	NR	NR	NR	NR
	S770	283 (41)	NR	159 (23)	138 (20)	138 (20)	165 (24)	165 (24)	117 (17)	NR
620/75R26 R1W (166A8)	S760	359 (52)	200 (29)	200 (29)	179 (26)	NR	NR	NR	NR	NR
	S770	359 (52)	NR	200 (29)	179 (26)	179 (26)	241 (35)	200 (29)	179 (26)	NR
	S780 S790	359 (52)	NR	NR	241 (35)	200 (29)	283 (41)	241 (35)	200 (29)	200 (29)
VF620/70R26 CFO+ TL CEREXBIB2 (173A8)	S760	207 (30)	117 (17)	117 (17)	117 (17)	NR	NR	NR	NR	NR
	S770	207 (30)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	269 (39)	NR	NR	138 (20)	138 (20)	159 (23)	138 (20)	117 (17)	117 (17)
VF620/75R26 R1W (172B)	S760	159 (23)	179 (26)	159 (23)	138 (20)	NR	159 (23)	NR	NR	NR
	S770	159 (23)	NR	159 (23)	138 (20)	138 (20)	159 (23)	138 (20)	138 (20)	NR
	S780 S790	221 (32)	NR	NR	221 (32)	200 (29)	221 (32)	179 (26)	179 (26)	159 (23)
VF620/70R26 CFO TL TM3000 (173A8)	S760	200 (29)	138 (20)	117 (17)	117 (17)	NR	NR	NR	NR	NR
	S770	200 (29)	NR	117 (17)	117 (17)	117 (17)	117 (17)	138 (20)	117 (17)	NR
	S780 S790	255 (37)	NR	NR	138 (20)	138 (20)	159 (23)	138 (20)	138 (20)	138 (20)
VF620/75R26 CFO (172A8)	S760	179 (26)	117 (17)	117 (17)	117 (17)	NR	117 (17)	NR	NR	NR
	S770	179 (26)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	241 (35)	NR	NR	117 (17)	200 (29)	138 (20)	117 (17)	117 (17)	117 (17)
750/65R26 R1W (169A8)	S760	331 (48)	179 (26)	179 (26)	159 (23)	NR	179 (26)	NR	NR	NR
	S770	331 (48)	NR	179 (26)	159 (23)	159 (23)	179 (26)	159 (23)	145 (21)	NR
	S780 S790	331 (48)	NR	NR	159 (23)	159 (23)	221 (32)	179 (26)	159 (23)	145 (21)

Rear Tire Size (Load Index)	Model	No Head/ Transport[a]	706C 706C-SM	708C 708C-SM	712C	712C-SM	708FC[b] 708FC-SM[b]	712FC[b] 712FC-SM[bc]	716C 718C	716C-SM 718C-SM
		Air Pressure kPa (psi)								
LSW710/60R30 R1W (177D)	S760	283 (41)	159 (23)	138 (20)	117 (17)	NR	159 (23)	NR	NR	NR
	S770	283 (41)	NR	138 (20)	117 (17)	117 (17)	159 (23)	138 (20)	117 (17)	NR
	S780 S790	283 (41)	NR	NR	138 (20)	117 (17)	179 (26)	159 (23)	117 (17)	117 (17)
VF750/65R26 R1W (177B)	S760	159 (23)	200 (29)	200 (29)	159 (23)	NR	159 (23)	NR	NR	NR
	S770	159 (23)	NR	200 (29)	159 (23)	159 (23)	159 (23)	159 (23)	138 (20)	NR
	S780 S790	159 (23)	NR	NR	159 (23)	159 (23)	179 (26)	159 (23)	138 (20)	138 (20)
VF750/65R26 CFO+ TL CEREXBIB2 (180A8)	S760	138 (20)	117 (17)	117 (17)	117 (17)	NR	117 (17)	NR	NR	NR
	S770	138 (20)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	179 (26)	NR	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)
VF710/65R26 R2 (177D)	S760	200 (29)	241 (35)	241 (35)	200 (29)	NR	159 (23)	NR	NR	NR
	S770	200 (29)	NR	241 (35)	200 (29)	200 (29)	159 (23)	200 (29)	159 (23)	NR
	S780 S790	200 (29)	NR	NR	200 (29)	200 (29)	221 (32)	200 (29)	179 (26)	159 (23)
500/85R24 IMP SFT TL (177A8 / 181A8)	S760	359 (52)	241 (35)	241 (35)	200 (29)	NR	NR	NR	NR	NR
	S770	359 (52)	NR	241 (35)	200 (29)	200 (29)	241 (35)	200 (29)	200 (29)	NR
	S780 S790	400 (58)	NR	NR	241 (35)	241 (35)	283 (41)	241 (35)	241 (35)	241 (35)
500/80R28 IMP SFT TL (176A8 / 182A8)	S760	317 (46)	200 (29)	200 (29)	200 (29)	NR	NR	NR	NR	NR
	S770	317 (46)	NR	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	359 (52)	NR	NR	241 (35)	241 (35)	241 (35)	241 (35)	283 (41)	200 (29)

C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head
FC-SM = Folding Corn Head with StalkMaster™
NR = Indicates a non-recommended combination.

StalkMaster is a trademark of Deere & Company

[a]Indicates road transport configuration (no header, no grain in tank). All road transport shall be done at this pressure (unless Folding Corn Head is installed).

[b]Pressure specified for Folding Corn Head (FC) tires are adequate for both road transport and field use.

[c]712FC-SM not recommended with this configuration.

OUO6075,00048ED-19-10MAY18

Rear Tire Pressure (Two-Wheel Drive Axle HillMaster™ Configuration) (Corn Heads)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700 Series Corn Heads are compatible for 600 Series Corn Heads.

Rear Tire Size (Load Index)	Model	No Head/ Transport[a]	706C 706C-SM	708C 708C-SM	712C 712C-SM 716C 716C-SM 718C 718C-SM
		Air Pressure bar (psi)			
500/85R24 IMP SFT TL (177A8 / 181A8)	S780 HM	4.00 (58)	2.41 (35)	2.41 (35)	NR

C = Corn Head
C-SM = Corn Head with StalkMaster™
HM = HillMaster™
NR = Indicates a non-recommended combination.

StalkMaster is a trademark of Deere & Company
HillMaster is a trademark of Deere & Company
[a]*Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048EE-19-10MAY18

Rear Tire Pressure (Four-Wheel Drive Axle HillMaster™ Configuration) (Corn Heads)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700 Series Corn Heads are compatible for 600 Series Corn Heads.

Rear Tire Size (Load Index)	Model	No Head/ Transport[a]	706C 706C-SM	708C 708C-SM	712C 712C-SM 716C 716C-SM 718C 718C-SM
		Air Pressure bar (psi)			
500/85R24 IMP SFT TL (177A8 / 181A8)	S780 HM	4.00 (58)	2.83 (41)	2.41 (35)	NR

C = Corn Head
C-SM = Corn Head with StalkMaster™
HM = HillMaster™
NR = Indicates a non-recommended combination.

StalkMaster is a trademark of Deere & Company
HillMaster is a trademark of Deere & Company
[a]*Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048EF-19-10MAY18

Rear Tire Pressure (Two-Wheel Drive Axle Level Land Configuration) (Belt Pickup / Platforms / Drapers)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700D and 700FD Series Drapers are compatible for 600D and 600FD Series Drapers.

Rear Tire Size (Load Index)	Model	No Head/ Trans-port[a]	615 BPU	618R/F 620R/F 622R/F 625R/F 630R/F 622X	635F	725D 625X	730D 630FD 630X	735D 635FD 635X	740D 640FD 640X	645FD
		Air Pressure kPa (psi)								
600/70R28 R1W (161A8 / 164A8)	S760	317 (46)	200 (29)	200 (29)	179 (26)	179 (26)	159 (23)	159 (23)	NR	NR
	S770	317 (46)	200 (29)	200 (29)	179 (26)	179 (26)	159 (23)	159 (23)	159 (23)	NR
23.1R26 R1 (166A8)	S760	359 (52)	193 (28)	179 (26)	179 (26)	165 (24)	165 (24)	165 (24)	NR	NR
	S770	359 (52)	193 (28)	179 (26)	179 (26)	165 (24)	165 (24)	165 (24)	165 (24)	NR
VF520/80R26 CFO R1W (168A8)	S760	283 (41)	179 (26)	159 (23)	138 (20)	138 (20)	138 (20)	138 (20)	NR	NR
	S770	283 (41)	179 (26)	159 (23)	138 (20)	138 (20)	138 (20)	138 (20)	138 (20)	NR
620/75R26 R1W (166A8)	S760	317 (46)	200 (29)	179 (26)	179 (26)	159 (23)	159 (23)	159 (23)	NR	NR
	S770	317 (46)	200 (29)	179 (26)	179 (26)	159 (23)	159 (23)	159 (23)	145 (21)	NR
VF620/70R26 CFO+ TL CEREXBIB2 (173A8)	S760	179 (26)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	179 (26)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	262 (38)	159 (23)	NR	138 (20)	138 (20)	138 (20)	138 (20)	117 (17)	117 (17)
VF620/75R26 R1W (172B)	S760	179 (26)	179 (26)	179 (26)	179 (26)	138 (20)	138 (20)	138 (20)	NR	NR
	S770	179 (26)	179 (26)	179 (26)	179 (26)	138 (20)	138 (20)	138 (20)	138 (20)	NR
	S780 S790	241 (35)	NR	NR	221 (32)	221 (32)	200 (29)	200 (29)	179 (26)	179 (26)
VF620/70R26 CFO TL TM3000 (173A8)	S760	179 (26)	138 (20)	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	179 (26)	138 (20)	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	255 (37)	179 (26)	NR	138 (20)	159 (23)	138 (20)	138 (20)	138 (20)	138 (20)
VF620/75R26 CFO (172A8)	S760	159 (23)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	159 (23)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	221 (32)	NR	NR	138 (20)	138 (20)	138 (20)	117 (17)	117 (17)	117 (17)
750/65R26 R1W (169A8)	S760	255 (37)	159 (23)	159 (23)	159 (23)	145 (21)	145 (21)	124 (18)	NR	NR
	S770	255 (37)	159 (23)	159 (23)	159 (23)	145 (21)	145 (21)	124 (18)	124 (18)	NR

Rear Tire Size (Load Index)	Model	No Head/ Trans-port[a]	615 BPU	618R/F 620R/F 622R/F 625R/F 630R/F 622X	635F	725D 625X	730D 630FD 630X	735D 635FD 635X	740D 640FD 640X	645FD
		Air Pressure kPa (psi)								
	S780 S790	331 (48)	200 (29)	NR	200 (29)	159 (23)	159 (23)	159 (23)	159 (23)	159 (23)
LSW710/60R30 R1W (177D)	S760	200 (29)	117 (17)	117 (17)	103 (15)	103 (15)	103 (15)	103 (15)	NR	NR
	S770	200 (29)	117 (17)	117 (17)	103 (15)	103 (15)	103 (15)	103 (15)	103 (15)	NR
	S780 S790	262 (38)	159 (23)	NR	138 (20)	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)
VF750/65R26 R1W (177B)	S760	138 (20)	159 (23)	159 (23)	138 (20)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	138 (20)	159 (23)	159 (23)	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	159 (23)	221 (32)	NR	221 (32)	179 (26)	159 (23)	159 (23)	159 (23)	159 (23)
VF750/65R26 CFO+ TL CEREXBIB2 (180A8)	S760	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	179 (26)	117 (17)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)
VF710/65R26 R2 (177D)	S760	159 (23)	179 (26)	179 (26)	179 (26)	138 (20)	138 (20)	138 (20)	NR	NR
	S770	159 (23)	179 (26)	179 (26)	179 (26)	138 (20)	138 (20)	138 (20)	138 (20)	NR
	S780 S790	179 (26)	262 (38)	NR	262 (38)	200 (29)	200 (29)	200 (29)	200 (29)	179 (26)
500/85R24 IMP SFT TL (177A8 / 181A8)	S760	317 (46)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	NR	NR
	S770	317 (46)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	400 (58)	283 (41)	NR	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)
500/80R28 IMP SFT TL (176A8 / 182A8)	S760	317 (46)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	NR	NR
	S770	317 (46)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	400 (58)	283 (41)	NR	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)	200 (29)

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
NR = Indicates a non-recommended combination.

[a] *Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048F0-19-01MAY18

Rear Tire Pressure (Four-Wheel Drive Axle Level Land Configuration) (Belt Pickup / Platforms / Drapers)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700D and 700FD Series Drapers are compatible for 600D and 600FD Series Drapers.

Rear Tire Size (Load Index)	Model	No Head/ Trans-port[a]	615 BPU	618R/F 620R/F 622R/F 625R/F 630R/F 622X	635F	725D 625X	730D 630FD 630X	735D 635FD 635X	740D 640FD 640X	645FD
		Air Pressure kPa (psi)								
600/70R28 R1W (161A8 / 164A8)	S760	317 (46)	200 (29)	200 (29)	200 (29)	179 (26)	179 (26)	179 (26)	NR	NR
	S770	317 (46)	200 (29)	200 (29)	200 (29)	179 (26)	179 (26)	179 (26)	179 (26)	NR
23.1R26 R1 (166A8)	S760	359 (52)	207 (30)	193 (28)	193 (28)	165 (24)	165 (24)	165 (24)	NR	NR
	S770	359 (52)	207 (30)	193 (28)	193 (28)	165 (24)	165 (24)	165 (24)	165 (24)	NR
VF520/80R26 CFO R1W (168A8)	S760	283 (41)	179 (26)	179 (26)	138 (20)	138 (20)	138 (20)	138 (20)	NR	NR
	S770	283 (41)	179 (26)	179 (26)	138 (20)	138 (20)	138 (20)	138 (20)	138 (20)	NR
620/75R26 R1W (166A8)	S760	359 (52)	241 (35)	241 (35)	228 (33)	200 (29)	200 (29)	200 (29)	NR	NR
	S770	359 (52)	241 (35)	241 (35)	228 (33)	200 (29)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	359 (52)	283 (41)	NR	228 (33)	200 (29)	200 (29)	200 (29)	200 (29)	179 (26)
VF620/70R26 CFO+ TL CEREXBIB2 (173A8)	S760	207 (30)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	207 (30)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	269 (39)	159 (23)	NR	138 (20)	138 (20)	138 (20)	138 (20)	138 (20)	117 (17)
VF620/75R26 R1W (172B)	S760	159 (23)	200 (29)	200 (29)	159 (23)	159 (23)	159 (23)	138 (20)	NR	NR
	S770	159 (23)	200 (29)	200 (29)	159 (23)	159 (23)	159 (23)	138 (20)	138 (20)	NR
	S780 S790	221 (32)	NR	NR	221 (32)	241 (35)	221 (32)	200 (29)	200 (29)	200 (29)
VF620/70R26 CFO TL TM3000 (173A8)	S760	200 (29)	138 (20)	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	200 (29)	138 (20)	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	255 (37)	200 (29)	NR	159 (23)	159 (23)	159 (23)	159 (23)	138 (20)	117 (17)
VF620/75R26 CFO (172A8)	S760	179 (26)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	179 (26)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	241 (35)	NR	NR	138 (20)	138 (20)	138 (20)	138 (20)	117 (17)	117 (17)
750/65R26 R1W (169A8)	S760	331 (48)	200 (29)	200 (29)	200 (29)	159 (23)	159 (23)	159 (23)	NR	NR

Rear Tire Size (Load Index)	Model	No Head/ Trans-port[a]	615 BPU	618R/F 620R/F 622R/F 625R/F 630R/F 622X	635F	725D 625X	730D 630FD 630X	735D 635FD 635X	740D 640FD 640X	645FD
		Air Pressure kPa (psi)								
	S770	331 (48)	200 (29)	200 (29)	200 (29)	159 (23)	159 (23)	159 (23)	159 (23)	NR
	S780 S790	331 (48)	200 (29)	NR	200 (29)	179 (26)	159 (23)	159 (23)	159 (23)	159 (23)
LSW710/60R30 R1W (177D)	S760	283 (41)	159 (23)	159 (23)	138 (20)	138 (20)	138 (20)	117 (17)	NR	NR
	S770	283 (41)	159 (23)	159 (23)	138 (20)	138 (20)	138 (20)	117 (17)	117 (17)	NR
	S780 S790	283 (41)	159 (23)	NR	138 (20)	138 (20)	138 (20)	138 (20)	117 (17)	117 (17)
VF750/65R26 R1W (177B)	S760	159 (23)	221 (32)	221 (32)	221 (32)	159 (23)	159 (23)	159 (23)	NR	NR
	S770	159 (23)	221 (32)	221 (32)	221 (32)	159 (23)	159 (23)	159 (23)	159 (23)	NR
	S780 S790	159 (23)	221 (32)	NR	221 (32)	179 (26)	179 (26)	159 (23)	159 (23)	159 (23)
VF750/65R26 CFO+ TL CEREXBIB2 (180A8)	S760	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR	NR
	S770	138 (20)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	NR
	S780 S790	179 (26)	117 (17)	NR	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)	117 (17)
VF710/65R26 R2 (177D)	S760	200 (29)	262 (38)	262 (38)	262 (38)	221 (32)	221 (32)	221 (32)	NR	NR
	S770	200 (29)	262 (38)	262 (38)	262 (38)	221 (32)	221 (32)	221 (32)	221 (32)	NR
	S780 S790	200 (29)	283 (41)	NR	262 (38)	221 (32)	221 (32)	221 (32)	221 (32)	200 (29)
500/85R24 IMP SFT TL (177A8 / 181A8)	S760	359 (52)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	NR	NR
	S770	359 (52)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	400 (58)	317 (46)	NR	283 (41)	283 (41)	241 (35)	241 (35)	241 (35)	241 (35)
500/80R28 IMP SFT TL (176A8 / 182A8)	S760	317 (46)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	NR	NR
	S770	317 (46)	241 (35)	241 (35)	200 (29)	200 (29)	200 (29)	200 (29)	200 (29)	NR
	S780 S790	359 (52)	283 (41)	NR	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)	241 (35)

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
NR = Indicates a non-recommended combination.

[a] *Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048F1-19-01MAY18

Rear Tire Pressure (Two-Wheel Drive Axle HillMaster™ Configuration) (Belt Pickup / Platforms / Drapers)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700D and 700FD Series Drapers are compatible for 600D and 600FD Series Drapers.

Rear Tire Size (Load Index)	Model	No Head/ Transport[a]	615 BPU	618R/F 620R/F 622R/F	625R/F 630R/F 622X	635F	725D 625X	730D 630X	735D 635X 740D 640X
		Air Pressure bar (psi)							
500/85R24 IMP SFT TL (177A8 / 181A8)	S780 HM	4.00 (58)	2.83 (41)	2.83 (41)	2.41 (35)	NR	2.41 (35)	2.00 (29)	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
X = Extendable Platform
HM = HillMaster™
NR = Indicates a non-recommended combination.

HillMaster is a trademark of Deere & Company
[a] *Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048F2-19-05APR18

Rear Tire Pressure (Four-Wheel Drive Axle HillMaster™ Configuration) (Belt Pickup / Platforms / Drapers)

IMPORTANT: All road transportation MUST be done at pressure shown in No Head/Transport column. Improper pressure during transport may decrease vehicle stability. Proper pressure results in better fuel economy and longer tire life.

NOTE: See Care and Service of Tires in this section for further information.

Tire pressures and recommended configurations shown for 700D and 700FD Series Drapers are compatible for 600D and 600FD Series Drapers.

Rear Tire Size (Load Index)	Model	No Head/ Transport[a]	615 BPU	618R/F 620R/F 622R/F	625R/F 630R/F 622X	635F	725D 625X	730D 630X	735D 635X 740D 640X
		Air Pressure bar (psi)							
500/85R24 IMP SFT TL (177A8 / 181A8)	S780 HM	4.00 (58)	2.83 (41)	2.83 (41)	2.41 (35)	NR	2.41 (35)	2.00 (29)	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
X = Extendable Platform
HM = HillMaster™
NR = Indicates a non-recommended combination.

HillMaster is a trademark of Deere & Company
[a] *Indicates road transport configuration (no header, no grain in tank).*

OUO6075,00048F3-19-05APR18

Front and Rear Tire Information

It will be necessary to recalibrate system if tires or final drives are changed from what was originally shipped from the factory. Verify that correct tire code is entered into memory.

IMPORTANT: When changing drive wheels, tire radius may also change. CAB control unit MUST be set to new tire radius. See your John Deere dealer for further information.

Failure to calibrate system will result in inaccurate Harvest Monitor Yields.

For additional information shown below on front and rear tires, see your John Deere dealer for further information.

Front Tires:

- Tire Sizes
- Header Compatibility
- Row Spacings
- Wheel Spacers
- Axle Spacers
- Wheel Offsets

Rear Tires:

- Tire Sizes
- Axle Types
- Spindle Types
- Axle Positions
- Front to Rear Height Differences

OUO6075,0001113-19-11APR12

Drive Wheel Starter Stud



H97547—UN—06AUG10

If a wheel is removed, thread wheel starter stud (HXE16110) into axle, then install wheel. This stud can also be used for duals.

OUO6075,00007CC-19-06AUG10

Drive Wheel Bolt Torque



H124190—UN—15MAY18

Torque Sequence

Each time drive wheels are repositioned or replaced, torque wheel bolts to specification and in a criss/cross pattern.

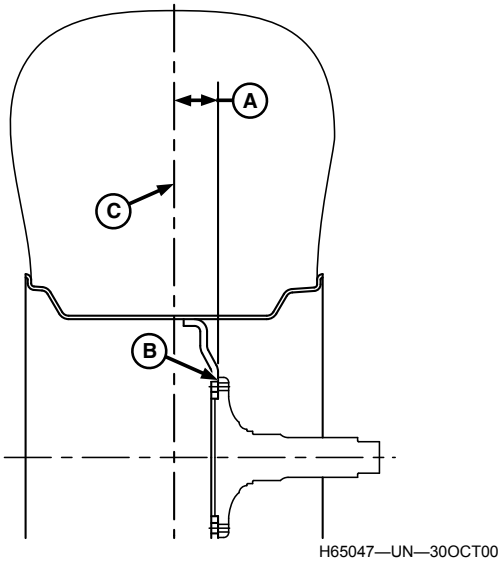
Specification

Wheel Bolts—Torque (dry). . . . . 710 N·m (524 lb·ft)

After the first hour of operation and again after every 10 hours of operation, torque wheel bolts to specification until 50 hours of operation is complete. Torque wheel bolts every 100 hours thereafter.

OUO6075,0004918-19-29MAY18

Front Drive Wheel Offset



H65047—UN—30OCT00

Single Wheel

A—Dimension
B—Spindle Surface
C—Tire Centerline

CAUTION: Avoid serious injury or death resulting from final drive failure and loss of drive wheel during transport or field operation. Do not exceed maximum wheel offset.

IMPORTANT: Use only John Deere supplied wheels, tires, and spacers. Use of non-John Deere components not meeting specification voids the warranty.

Do not use clamp-on style duals. They do not meet John Deere specification.

Wheel offset distance severely affects life of final drive parts. When installing drive wheels, ensure that offset dimension (A) measured from spindle surface (B) to centerline (C) is within specification.

Maximum Wheel Offset — Specification

Single Wheel—Distance. . . . . 114.3 mm (4-1/2 in.)

OUO6075,0004919-19-07MAR18

Preparing Dual Wheels for Transport or Service

CAUTION: Do not attempt to operate machine in the field with outer dual wheels removed. Machine damage can occur.

Only move machine short distances with outer duals removed. Before moving machine reduce machine weight by removing header and emptying grain tank.

IMPORTANT: If machine must be transported without outer wheels in place, 5 socket head cap screws and 15 wheel bolts MUST be installed and tightened to specification before lowering front axle to ground. Segmented spacers are omitted for road transport, loading, and unloading.

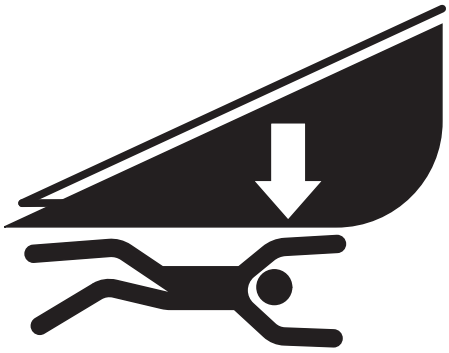
When preparing dual wheels for transport, outer wheels can be removed to reduce transport width.

Refer to the following directions whenever the front wheels (outer and inner) need removed or installed on a dual wheel machine. Inner wheel cannot be removed without first removing outer wheel.

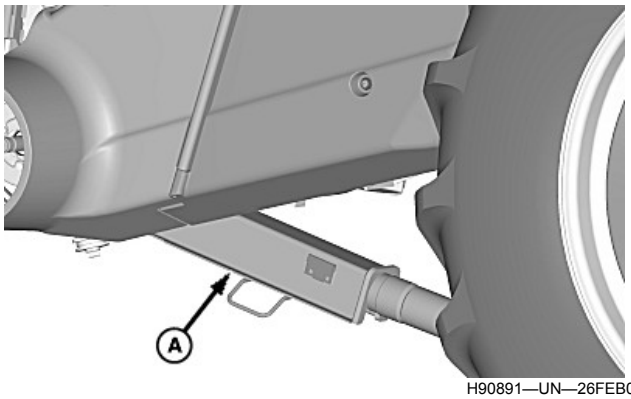
Pay close attention to ”CAUTION” statements as they address your safety, the safety of others and safe operations of the machine.

OUO6075,000491A-19-23MAY18

Remove Front Wheels



H121063—UN—14MAR17



H90891—UN—26FEB08

A—Safety Stop

CAUTION: Grain tank MUST be empty and header attachment removed.

1. Park machine on flat, solid, and level surface.

CAUTION: To avoid injury or death, raise feeder house and lower safety stop. Some assembly requires you to work underneath the feeder house.

Without safety stop engaged, feeder house can suddenly lower, causing serious crushing injury or death.

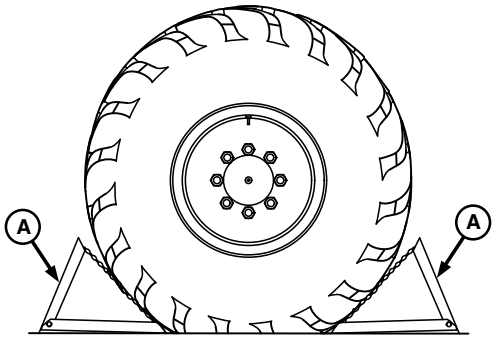
2. **Manual Feeder House Fore/Aft Tilt**

   Raise feeder house completely and lower safety stop (A) onto hydraulic cylinder rod.

   Hydraulic Feeder House Fore/Aft Tilt

   Raise feeder house completely and tilt hydraulic feeder house fore/aft tilt frame fully forward and lower safety stop (A) onto hydraulic cylinder rod.

3. Shut OFF engine, set park brake and remove key.

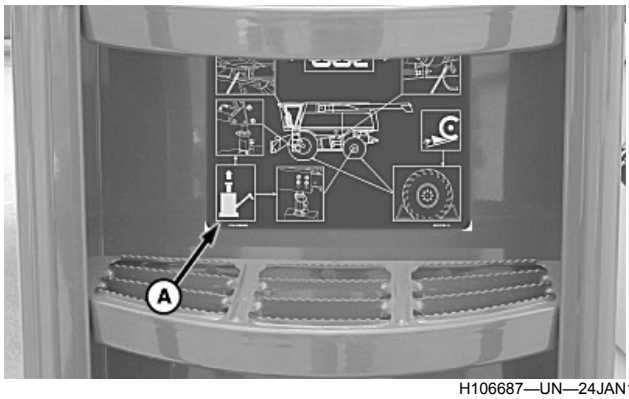


H118221—UN—18APR16

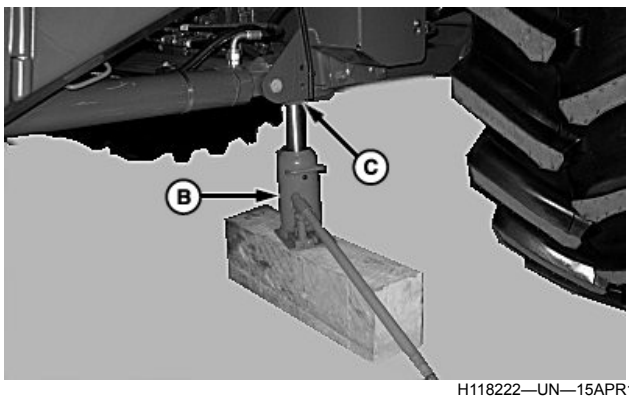
A—Blocks

CAUTION: Block both sides of tires to prevent movement while raising machine.

4. Block front and rear of tires as shown using blocks (A).
5. With front tires on ground, loosen wheel bolts one full turn, but do not remove at this time.



H106687—UN—24JAN13



H118222—UN—15APR16

A—Decal
B—Jack
C—Jack Pocket

CAUTION: Jack MUST have a minimum lifting capacity of 10 886 kg (24 000 lb).

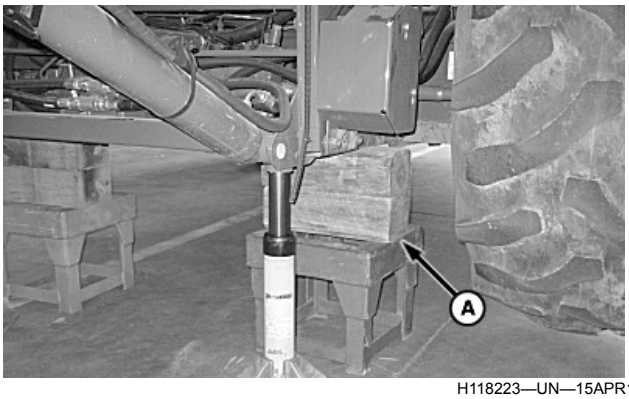
Do not raise machine at any location other than at the jack pockets.

Do not place objects between the jack and the jack pocket. They may cause machine instability. If the jack does not have enough travel length, place block on ground.

Wood blocks must be in good condition to support machine weight.

NOTE: Approved jack pocket locations can be found on decal (A) on the cab ladder.

6. Align jack (B) with the jack pocket (C) on the front axle and raise machine.



H118223—UN—15APR16

A—Blocks

CAUTION: To help prevent personal injury caused by unexpected movement of the machine, be sure that machine is stable after blocking.

Do not support machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work on a machine that is supported solely by a jack.

Wood blocks must be in good condition to support machine weight.

Be sure that the front axle rests on blocking before attempting to remove wheels.

7. Position solid blocking (A) underneath the front axle. Lower machine onto blocking, making sure that no load shift is seen or felt.



H124273—UN—15MAY18

A—Wheel Bolt (20 used)
B—Segmented Spacer (5 used)
C—Wheel
D—Wheel Spacer (if required)

8. **Single Wheel Configuration:**

CAUTION: Wheels are heavy and are difficult to handle. To avoid personal injury, two people are needed to remove the wheel.

a. Remove **four** wheel bolts (A) and segmented spacer (B).

b. Repeat steps as needed for remaining segment spacers and wheels bolts.

c. Remove wheel (C) away from machine.

d. Remove wheel spacer (D) (if required) from the drive hub.

e. Repeat steps as needed on the opposite side of the machine.



H124224—UN—14MAY18

A—Wheel Bolt (20 used)
B—Segmented Spacer (5 used)
C—Socket Head Cap Screw (5 used)
D—Oversized Hole (5 used)
E—Outer Wheel Assembly

9. **Dual Wheel Configuration (Outer Wheel):**

CAUTION: Wheels are heavy and are difficult to handle. When handling wheels, off-centered weight can suddenly shift making wheel handling awkward and the wheel difficult to control. To avoid personal injury, two people are needed to remove the wheel.

a. Remove **four** wheel bolts (A) and segmented spacer (B).

b. Install **one** socket head cap screw (C) through the oversized hole (D) to retain inner wheel in place.

CAUTION: To avoid personal injury, socket head cap screws MUST be installed to prevent inner wheel from coming off when removing outer wheel.

c. Repeat steps as needed for remaining segment spacers and wheels bolts.

d. Remove outer wheel assembly (E) away from machine.

e. Repeat steps as needed on the opposite side of the machine.

IMPORTANT: If machine must be transported without outer wheels in place, 5 socket head cap screws and 15 wheel bolts MUST be installed and tightened to specification before lowering front axle to ground. Segmented spacers are omitted for road transport, loading, and unloading.



H124225—UN—14MAY18

A—Socket Head Cap Screw (5 used)
B—Inner Wheel Assembly

10. **Dual Wheel Configuration (Inner Wheel):**

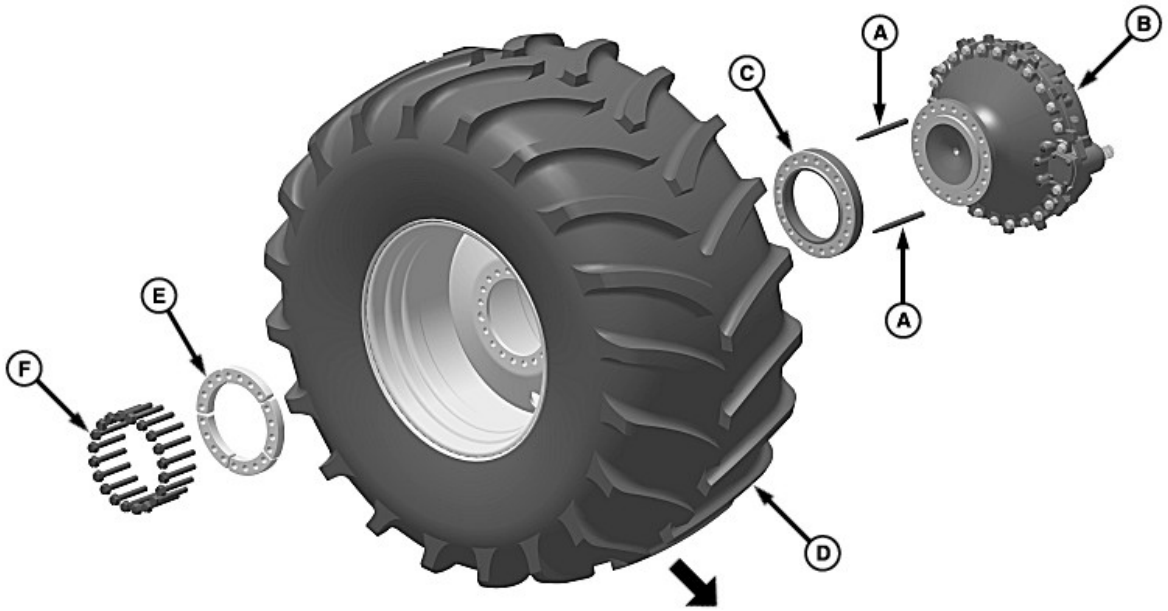
a. Remove socket head cap screws (A).

b. Remove inner wheel assembly (B) away from machine.

c. Repeat steps as needed on the opposite side of the machine.

OUO6075,0004915-19-23MAY18

Install Front Wheels



H124196—UN—14MAY18

A—Pilot Stud (2 used)
B—Drive Hub
C—Wheel Spacer (if required)
D—Wheel
E—Segmented Spacer (5 used)
F—Wheel Bolt (20 used)

1. **Single Wheel Configuration:**

⚠ CAUTION: Wheels are heavy and are difficult to handle. To avoid personal injury, two people are needed to install the wheel.

NOTE: Pilot stud HXE16110 is recommended to help guide wheels into position.

a. Install pilot studs (A) in top and bottom holes of the drive hub (B). Stud threads must bottom out in holes.

b. Install wheel spacer (C) (if required) onto the drive hub.

IMPORTANT: Install tire as directed or machine will NOT be drivable.

c. Position the wheel (D) so the tire cleats point towards the front and downward.

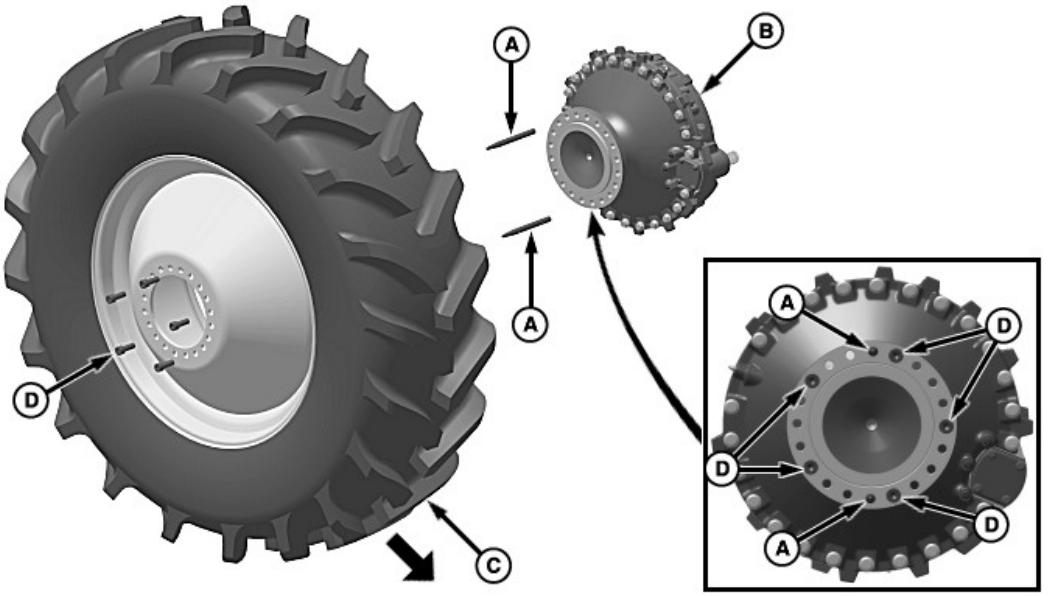
d. Align holes in the rim with pilot studs.

e. Install wheel onto the drive hub.

IMPORTANT: Start wheel bolts by hand to help prevent damage to bolts.

f. Install segmented spacers (E) and retain with wheel bolts (F).

IMPORTANT: Install all wheel bolts and segmented spacers BEFORE lowering front axle to ground.



H124461—UN—08JUN18

A—Pilot Stud (2 used)
B—Drive Hub
C—Wheel
D—Socket Head Cap Screw (5 used)

2. **Dual Wheel Configuration (Inner Wheel):**

CAUTION: Wheels are heavy and are difficult to handle. When handling wheels, off-centered weight can suddenly shift making wheel handling awkward and the wheel difficult to control. To avoid personal injury, two people are needed to install the wheel.

NOTE: Pilot stud HXE16110 is recommended to help guide wheels into position.

a. Install pilot studs (A) in top and bottom holes of the drive hub (B). Stud threads must bottom out in holes.

IMPORTANT: Install tire as directed or machine will NOT be drivable.

b. Position the wheel (C) so the tire cleats point towards the front and downward.

c. Align holes in the rim with pilot studs.

d. Install wheel onto the drive hub.

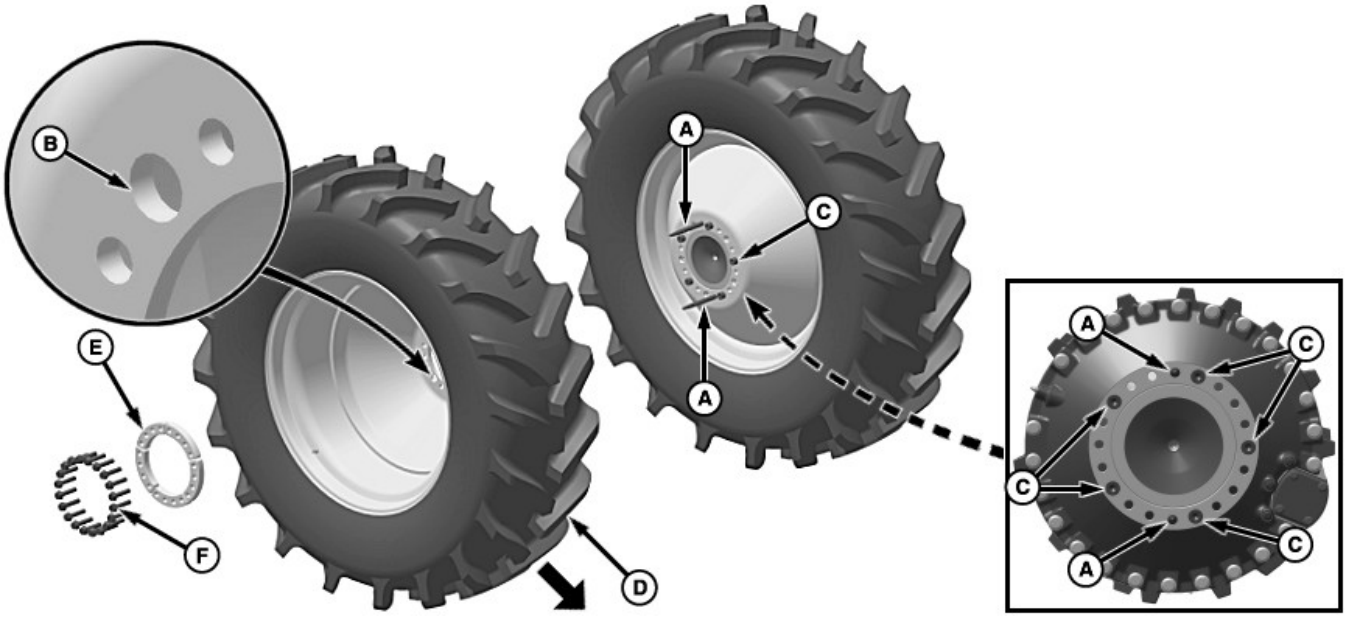
e. Install socket head cap screws (D) so that they are equally spaced from each other.

f. Tighten socket head cap screws to specification using an M17 hex bit socket.

Specification

Socket Head Cap Screws—Torque (dry)	450 N·m (332 lb·ft)

IMPORTANT: If machine must be transported without outer wheels in place, 5 socket head cap screws and 15 wheel bolts MUST be installed and tightened to specification before lowering front axle to ground. Segmented spacers are omitted for road transport, loading, and unloading.



H124201—UN—14MAY18

A—Pilot Stud (2 used)
B—Oversized Hole (5 used)
C—Socket Head Cap Screw (5 used)
D—Wheel
E—Segmented Spacer (5 used)
F—Wheel Bolt (20 used)

3. **Dual Wheel Configuration (Outer Wheel):**

CAUTION: Wheels are heavy and are difficult to handle. When handling wheels, off-centered weight can suddenly shift making wheel handling awkward and the wheel difficult to control. To avoid personal injury, two people are needed to install the wheel.

IMPORTANT: Install tire as directed or machine will NOT be drivable.

a. Position the wheel so the tire cleats point towards the front and downward.

b. Align holes in the rim with pilot studs (A).

IMPORTANT: Verify that the oversized holes are aligned with the socket head cap screws. Inner and outer rims are flush with each other.

c. Align oversized holes (B) with previously installed socket head cap screws (C).

d. Install wheel (D) onto the drive hub.

e. Remove **one** socket head cap screw through the oversized hole.

f. Align **one** segmented spacer (E) with **four** rim holes.

IMPORTANT: Start wheel bolts by hand to help prevent damage to bolts.

g. Install **four** wheel bolts (F) through segmented spacer and into the rim holes.

h. Repeat steps as needed for remaining segment spacers and wheels bolts.

IMPORTANT: Install all wheel bolts and segmented spacers BEFORE lowering front axle to ground.

NOTE: Retain socket head cap screws for future use when removing and installing wheels. Store the socket head cap screws in the toolbox.



H124190—UN—15MAY18

Torque Sequence

4. Tighten wheel bolts to specification using a criss/cross pattern.

Specification	
Wheel Bolts—Torque (dry)	710 N·m (524 lb·ft)

5. Remove pilot studs and replace with wheel bolts.
6. Tighten remaining wheel bolts to specification.

Specification

Wheel Bolts—Torque (dry). . . . . 710 N·m (524 lb·ft)

7. Repeat steps on the opposite side of machine and lower to ground.

   After the first hour of operation and again after every 10 hours of operation, torque wheel bolts to specification until 50 hours of operation is complete. Torque wheel bolts every 100 hours thereafter.

8. Check tire pressure and inflate as needed. See Care and Service of Tires in this section for tire inflation pressure.

OUO6075,0004916-19-08JUN18

Rear Wheel Bolt Torque



H96809—UN—09JUN10

Each time a rear wheel is removed, torque wheel bolts to specification.

Specification

M16 Wheel Bolts (Regular Duty Two-Wheel Drive)—Torque. . . . . 315 N·m (230 lb·ft)

M22 Wheel Bolts (Extra Heavy-Duty Two-Wheel Drive)—Torque. . . . . 710 N·m (524 lb·ft)

M22 Wheel Bolts (Four-Wheel Drive)—Torque. . . . . 710 N·m (524 lb·ft)

After the first hour of operation and again after every 10 hours of operation, torque wheel bolts to specification until 50 hours of operation is completed. Torque wheel bolts every 100 hours thereafter.

NOTE: Refer to decal on the tire for proper torque sequence.

OUO6075,00042E4-19-02JUN16

Using Liquid Weight



H96809—UN—09JUN10

CAUTION: Installing liquid weight (ballast) requires special equipment and training.

IMPORTANT: Cover rim completely with solution to avoid corrosion, but NEVER fill any tire more than 90 percent full. More solution would leave too little air space to absorb shocks. Damage to tire could occur.

A solution of water and calcium chloride provides a safe and economical ballast. Used properly, it will not damage tires, tubes or rims.

Use calcium chloride to prevent water from freezing. A mixture of 1.6 kg (3-1/2 lb) of calcium chloride per 3.8 L (1 gal) will not freeze solid above -45°C (-50°F).

NOTE: Use of alcohol as liquid ballast is not recommended. Calcium chloride solution is heavier and more economical.

Fill tubeless tires at least to valve level (minimum 75 percent full). Less solution would expose part of rim, possibly causing corrosion. Tube-type tires may be filled to any level below 90 percent.

OUO6075,00007D0-19-10JUN10

Ballast Requirements (S760)

NOTE: Ballast requirements shown for 700 Series Corn Heads, 700D Series Drapers, and 700FD Series Flex Drapers are compatible for 600 Series Corn Heads, 600D Series Drapers and 600FD Series Flex Drapers.

Ballast requirements vary based on configuration.

Ballast requirements based off standard Corn Pricing configuration, 133 L (35 gal) fuel in tank, and full grain tank. This may not reflect all scenarios.

Tires requiring fluid must be filled to 75%.

	Normal (Slopes of 15% or less)				Extremely Hilly (Slopes greater than 15%)			
	Two-Wheel Drive		Four-Wheel Drive		Two-Wheel Drive		Four-Wheel Drive	
	Fluid Required		Fluid Required		Fluid Required		Fluid Required	
Header	No	Yes	No	Yes	No	Yes	No	Yes
706C	0	0	0	0	0	0	0	0
706C-SM	0	0	0	0	0	0	0	0
708C	0	0	0	0	0	0	0	0
708C-SM	0	0	0	0	0	0	0	0
708FC	NR	1, 2, 3, 4, 5, 6	NR	1, 2, 3, 4, 5, 6, 7	NR	NR	NR	NR
712C	0	0	0	0	NR	2, 3, 4, 5, 6	NR	1, 2, 3, 4, 5, 6, 7
615 BPU	0	0	0	0	0	0	0	0
618R & F	0	0	0	0	0	0	0	0
620R & F	0	0	0	0	0	0	0	0
622R & F	0	0	0	0	0	0	0	0
625R & F	0	0	0	0	0	0	0	0
630R & F	0	0	0	0	4, 5, 6	1, 2, 3, 7	0	0
635F	0	0	0	0	NR	4, 5, 6	NR	1, 2, 3, 4, 5, 6,
725D	0	0	0	0	NR	4, 5, 6	NR	1, 2, 3, 4, 5, 6
730D	0	0	0	0	NR	NR	NR	NR
735D	4, 6	1, 2, 3, 5, 7	0	0	NR	NR	NR	NR
730FD	0	0	0	0	NR	NR	NR	2, 4, 5, 6
735FD	1, 2, 3, 4, 5, 6	7	0	0	NR	NR	NR	NR
622X	0	0	0	0	NR	4, 5, 6	NR	1, 2, 3, 4, 5, 6
625X	0	0	0	0	NR	4, 5, 6	NR	1, 2, 3, 4, 5, 6
630X	0	0	0	0	NR	NR	NR	NR
635X	1, 2, 3, 4, 5, 6	7	0	0	NR	NR	NR	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
C = Corn Head
C-SM = Corn Head with StalkMaster™

0 = No ballast required for any rear tire option.
1 = 600/70R28 rear tires.
2 = 23.1R26 rear tires.
3 = 620/75R26 (or 620/70R26) rear tires.
4 = 750/65R26 rear tires.
5 = 710/65R26 rear tires.
6 = 710/60R30 rear tires.
7 = 520/80R26 (or 500/85R24 or 500/80R28) rear tires.
NR = Not recommended since machine with header cannot be properly ballasted.

StalkMaster is a trademark of Deere & Company

OUO6075,00048FA-19-10MAY18

Ballast Requirements (S770)

NOTE: Ballast requirements shown for 700 Series Corn Heads, 700D Series Drapers, and 700FD Series Flex Drapers are compatible for 600 Series Corn Heads, 600D Series Drapers and 600FD Series Flex Drapers.

Ballast requirements vary based on configuration.

Ballast requirements based off standard Corn Pricing configuration, 133 L (35 gal) fuel in tank, and full grain tank. This may not reflect all scenarios.

Tires requiring fluid must be filled to 75%.

	Normal (Slopes of 15% or less)				Extremely Hilly (Slopes greater than 15%)			
	Two-Wheel Drive		Four-Wheel Drive		Two-Wheel Drive		Four-Wheel Drive	
	Fluid Required		Fluid Required		Fluid Required		Fluid Required	
Header	No	Yes	No	Yes	No	Yes	No	Yes
708C	0	0	0	0	0	0	0	0
708C-SM	0	0	0	0	1, 2, 3, 4, 5, 6	7	0	0
712C	0	0	0	0	NR	4, 5, 6	NR	1, 2, 3, 4, 5, 6
712C-SM	0	0	0	0	NR	NR	NR	4, 5, 6
708FC	NR	1, 2, 3, 4, 5, 6	NR	1, 2, 3, 4, 5, 6, 7	NR	NR	NR	NR
712FC	NR	1, 2, 3, 4, 5, 6	NR	1, 2, 3, 4, 5, 6, 7	NR	NR	NR	NR
716C	NR	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	7	NR	NR	NR	NR
718C	NR	4	NR	1, 2, 3, 4, 5, 6	NR	NR	NR	NR
615 BPU	0	0	0	0	0	0	0	0
618R & F	0	0	0	0	0	0	0	0
620R & F	0	0	0	0	0	0	0	0
622R & F	0	0	0	0	0	0	0	0
625R & F	0	0	0	0	0	0	0	0
630R & F	0	0	0	0	NR	1, 2, 3, 4, 5, 6	0	0
635F	0	0	0	0	NR	4, 5	NR	1, 2, 3, 4, 5, 6
725D	0	0	0	0	NR	4	NR	1, 2, 3, 4, 5, 6
730D	1, 2, 3, 4, 5, 6	7	0	0	NR	NR	NR	NR
735D	NR	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 6	7	NR	NR	NR	NR
740D	NR	2, 3, 4, 5, 6	4, 5, 6	1, 2, 3, 7	NR	NR	NR	NR
730FD	0	0	0	0	NR	NR	NR	4, 5, 6
735FD	1, 3, 4, 5, 6	2, 7	0	0	NR	NR	NR	NR
740FD	NR	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	7	NR	NR	NR	NR
622X	0	0	0	0	NR	4, 5	NR	1, 2, 3, 4, 5, 6
625X	0	0	0	0	NR	4	NR	1, 2, 3, 4, 5, 6
630X	1, 2, 3, 4, 5, 6	7	0	0	NR	NR	NR	NR
635X	NR	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	7	NR	NR	NR	NR
640X	NR	1, 2, 3, 4, 5, 6	1, 2, 3, 4, 5, 6	7	NR	NR	NR	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head

0 = No ballast required for any rear tire option.
1 = 600/70R28 rear tires.
2 = 23.1R26 rear tires.
3 = 620/75R26 (or 620/70R26) rear tires.
4 = 750/65R26 rear tires.
5 = 710/65R26 rear tires.
6 = 710/60R30 rear tires.
7 = 520/80R26 (or 500/85R24 or 500/80R28) rear tires.
NR = Not recommended since machine with header cannot be properly ballasted.

StalkMaster is a trademark of Deere & Company

OUO6075,00048FB-19-10MAY18

Ballast Requirements (S780 and S790)

NOTE: Ballast requirements shown for 700 Series Corn Heads, 700D Series Drapers, and 700FD Series Flex Drapers are compatible for 600 Series Corn Heads, 600D Series Drapers and 600FD Series Flex Drapers.

Ballast requirements vary based on configuration.

Ballast requirements based off standard Corn Pricing configuration, 133 L (35 gal) fuel in tank, and full grain tank. This may not reflect all scenarios.

Tires requiring fluid must be filled to 75%.

	Normal (Slopes of 15% or less)				Extremely Hilly (Slopes greater than 15%)			
	Two-Wheel Drive		Four-Wheel Drive		Two-Wheel Drive		Four-Wheel Drive	
	Fluid Required		Fluid Required		Fluid Required		Fluid Required	
Header	No	Yes	No	Yes	No	Yes	No	Yes
712C	0	0	0	0	2, 4	1, 3, 5	0	0
712C-SM	0	0	0	0	NR	2, 3, 4	NR	1, 2, 3, 4, 5
708FC	NR	1, 2, 3, 4, 5	NR	1, 2, 3, 4, 5	NR	NR	NR	NR
712FC	NR	1, 2, 3, 4, 5	NR	1, 2, 3, 4, 5	NR	NR	NR	NR
712FC-SM	NR	1, 2, 3, 4, 5	NR	1, 2, 3, 4, 5	NR	NR	NR	NR
716C	0	0	0	0	NR	NR	NR	NR
716C-SM	0	0	0	0	NR	NR	NR	NR
718C	0	0	0	0	NR	NR	NR	NR
718C-SM	NR	1, 2, 3, 4, 5	NR	1, 2, 3, 4, 5	NR	NR	NR	NR
615 BPU	0	0	0	0	0	0	0	0
625R & F	0	0	0	0	0	0	0	0
630R & F	0	0	0	0	0	0	0	0
635F	0	0	0	0	NR	1, 2, 3, 4, 5	2, 3, 4	1, 5
725D	0	0	0	0	NR	1, 2, 3, 4, 5	2, 3, 4	1, 5
730D	0	0	0	0	NR	NR	NR	2, 3, 4
735D	0	0	0	0	NR	NR	NR	NR
740D	0	0	0	0	NR	NR	NR	NR
730FD	0	0	0	0	NR	2, 3, 4	NR	1, 2, 3, 4, 5
735FD	0	0	0	0	NR	NR	NR	2, 3, 4
740FD	0	0	0	0	NR	NR	NR	NR
745FD	0	0	0	0	NR	NR	NR	NR
622X	0	0	0	0	NR	1, 2, 3, 4, 5	2, 3, 4	1, 5
625X	0	0	0	0	NR	1, 2, 3, 4, 5	2, 3, 4	1, 5
630X	0	0	0	0	NR	NR	NR	2, 3, 4
635X	0	0	0	0	NR	NR	NR	NR
640X	0	0	0	0	NR	NR	NR	NR

BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
C = Corn Head
C-SM = Corn Head with StalkMaster™
FC = Folding Corn Head
FC-SM = Folding Corn Head with StalkMaster™

0 = No ballast required for any rear tire option.
1 = 620/75R26 (or 23.1R26 or 620/70R26) rear tires.
2 = 750/65R26 rear tires.
3 = 710/65R26 rear tires.
4 = 710/60R30 rear tires.
5 = 500/85R24 (or 500/80R28) rear tires.
NR = Not recommended since machine with header cannot be properly ballasted.

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OUO6075,00048FC-19-10MAY18

Ballast Requirements (S780 HillMaster™)

NOTE: Ballast requirements shown for 700 Series Corn Heads and 700D Series Drapers are compatible for 600 Series Corn Heads and 600D Series Drapers.

Ballast requirements vary based on configuration.

Ballast requirements based off standard Corn Pricing configuration, 133 L (35 gal) fuel in tank, and full grain tank. This may not reflect all scenarios.

Tires requiring fluid must be filled to 75%.

	Normal (Slopes of 15% or less)				Extremely Hilly (Slopes greater than 15%)			
	Two-Wheel Drive		Four-Wheel Drive		Two-Wheel Drive		Four-Wheel Drive	
	Fluid Required		Fluid Required		Fluid Required		Fluid Required	
Header	No	Yes	No	Yes	No	Yes	No	Yes
706C	0	0	0	0	0	0	0	0
706C-SM	0	0	0	0	0	0	0	0
708C	0	0	0	0	0	0	0	0
708C-SM	0	0	0	0	0	0	0	0
615 BPU	0	0	0	0	0	0	0	0
618R & F	0	0	0	0	0	0	0	0
620R & F	0	0	0	0	0	0	0	0
622R & F	0	0	0	0	0	0	0	0
625R & F	0	0	0	0	0	0	0	0
630R & F	0	0	0	0	0	0	0	0
725D	0	0	0	0	NR	1	0	0
730D	0	0	0	0	NR	NR	NR	1
622X	0	0	0	0	NR	1	0	0
625X	0	0	0	0	NR	1	0	0
630X	0	0	0	0	NR	NR	NR	0

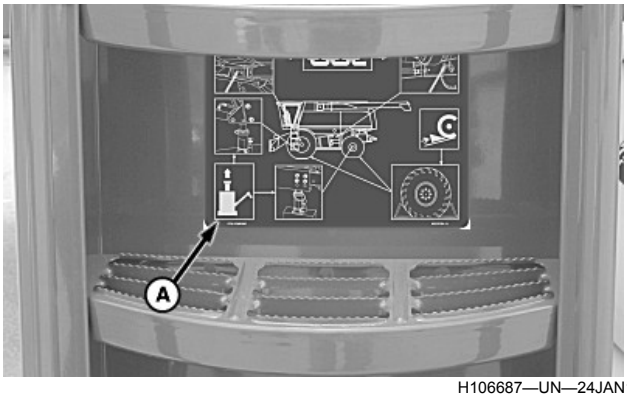
BPU = Belt Pickup Platform
R = Rigid Platform
F = Flex Platform
D = Draper Platform
FD = Flex Draper Platform
X = Extendable Platform
C = Corn Head
C-SM = Corn Head with StalkMaster™

0 = No ballast required for any rear tire option.
1 = 500/85R24 rear tires.
NR = Not recommended since machine with header cannot be properly ballasted.

StalkMaster is a trademark of Deere & Company

OUO6075,00048FD-19-10MAY18

Jack Pocket Locations Decal



H106687—UN—24JAN13

A—Jack Pocket Locations Decal

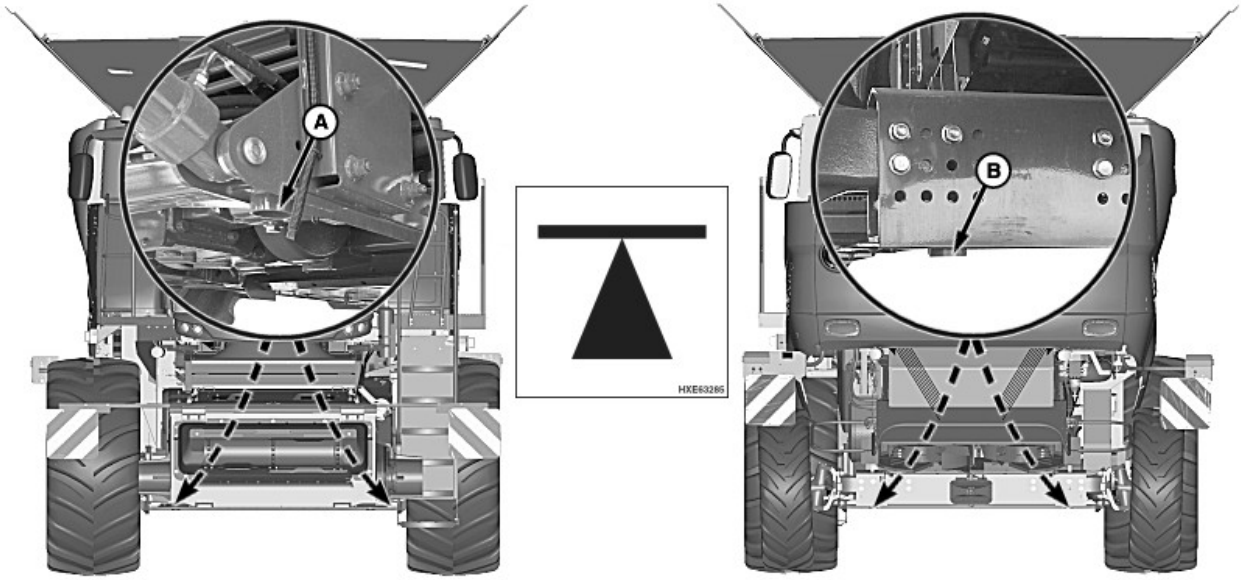
CAUTION: Always empty grain tank before raising machine.

Block both sides of tires to prevent machine movement.

Jack pocket locations decal (A) is located on cab ladder. Decal shows correct locations for raising machine using proper jacks.

OUO6075,0001392-19-24JAN13

Jack Pocket Locations



H105883—UN—24JAN13

A—Front Pocket Locations

B—Rear Pocket Locations

CAUTION: Always empty grain tank before raising machine.

Block both sides of tires to prevent machine movement.

NOTE: Jack pocket locations are located on both sides of machine at front and rear.

Do not raise machine at any other location than those with a jack pocket.

OUO6075,00011DA-19-21MAR16

Roadway Transport with Header Attached

Observe national and local laws regarding operation of the combine on public roadways.

This combine can be approved for roadway transport in Germany with a Geringhoff 8-row folding header and a Kemper 8-row folding header. Roadway transport in Germany must be approved by your local TUEV to achieve a road permission.

Apply for allowance at your dealership or at manufacturing factory.

OUO6075,000431D-19-29JUN16

Driving Machine on Roads



H115016—UN—22MAR16

Folding Button

CAUTION: Avoid power line entanglement. Grain tank covers must be closed before transporting machine.

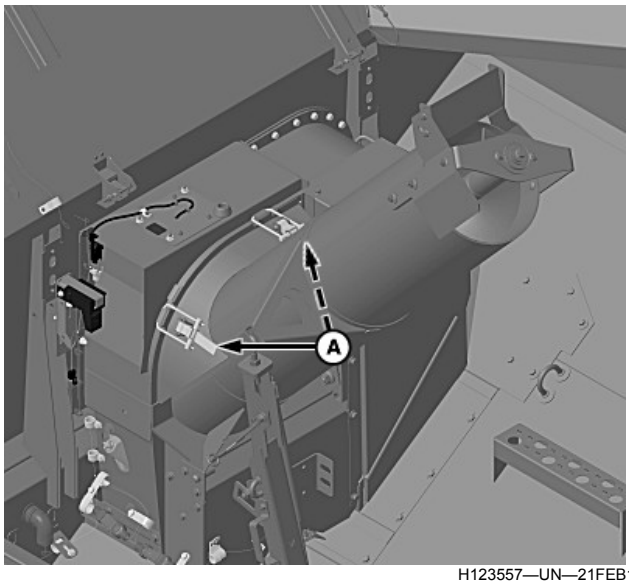
IMPORTANT: Verify that grain tank is unloaded before transporting machine on road.

Verify that folding unloading auger and folding grain tank covers are fully folded before driving machine.

1. Press folding button on navigation bar. See Folding Application Help or Operator's Station Help for further information.

   The following items must be folded to the transport position:

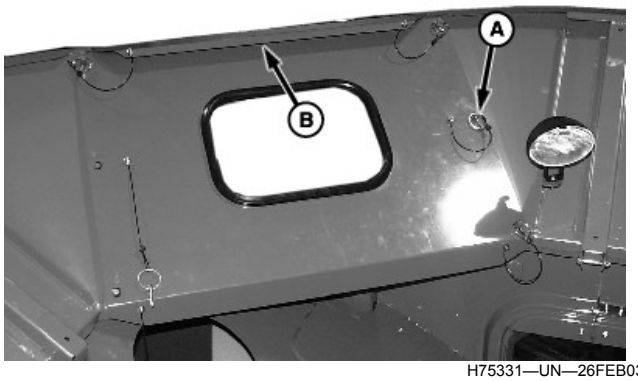
   - Unloading Auger
   - Grain Tank Covers (If Equipped)



H123557—UN—21FEB18

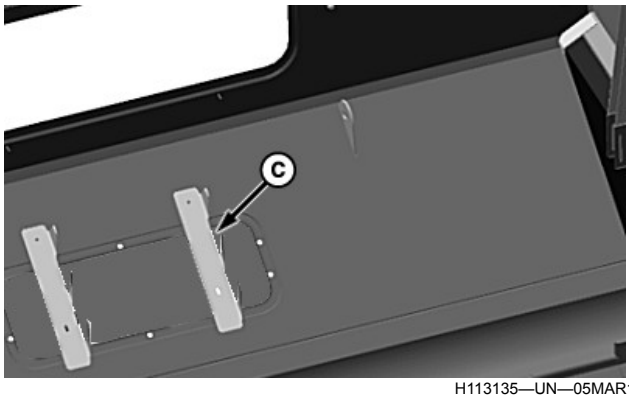
A—Clamps

2. **Manual Fold Clean Grain Auger (If Equipped):** Release clamps (A) and lower auger.



H75331—UN—26FEB03

Front Grain Tank Extension Shown



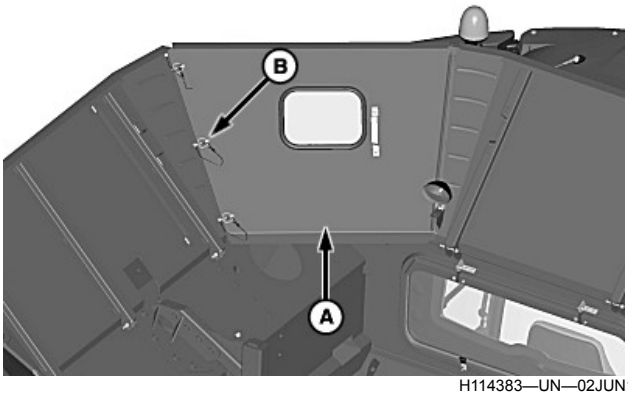
H113135—UN—05MAR15

A—Quick-Lock Pins
B—Grain Tank Corner Extensions
C—Storage Rack

3. **116 L/s (3.3 bu/s) Unload Rate Grain Tank Extensions (If Equipped):** Remove quick-lock pins (A) from the grain tank corner extensions (B). Store corner grain tank extensions in the storage rack (C). Fold grain tank extensions in the following order:

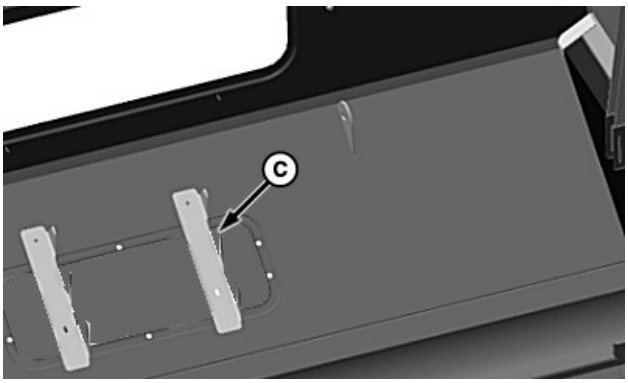
a. Fold front grain tank extension and rear grain tank extension.

b. Fold left-hand grain tank extension and right-hand grain tank extension.



H114383—UN—02JUN15

Front Grain Tank Extension



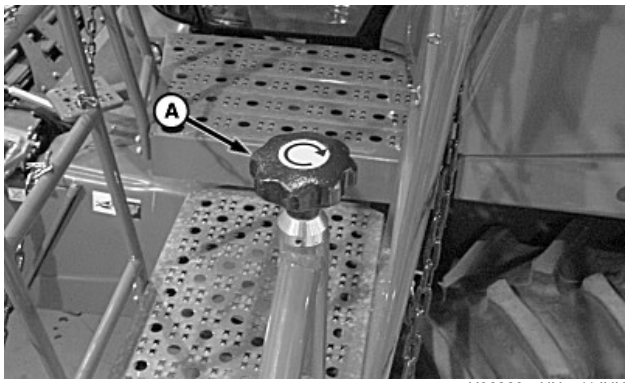
H114384—UN—02JUN15

A—Grain Tank Corner Extensions
B—Quick-Lock Pins
C—Storage Rack

4. **134 L/s (3.8 bu/s) Unload Rate Grain Tank Extensions (If Equipped):** Remove quick-lock pins (B) from the grain tank corner extensions (A). Store corner grain tank extensions storage rack (C). Fold grain tank extensions in the following order:

   a. Fold front grain tank extension and rear grain tank extension.

   b. Fold left-hand grain tank extension and right-hand grain tank extension.



H96869—UN—11JUN10

A—Handle

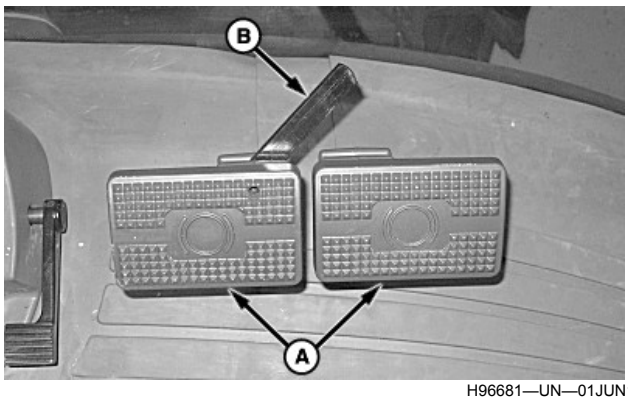
CAUTION: Swing ladder to the full forward position to reduce machine width and to orient marker/hazard light toward oncoming motorists.

IMPORTANT: Travel at a reasonable speed for road or field conditions. Never transport on the road with grain in the tank.

Follow local regulations for equipment size, lighting, and marking before driving on public roadways.

5. Use handle (A) to unlock ladder and swing fully forward.

6. Fold radio antenna down and retain with hook (if equipped). If the hook is not available, retain the antenna to cab roof with tape.



H96681—UN—01JUN10

A—Pedals
B—Lock

7. Lock brake pedals together with lock (B) when driving on roads. Leave pedals (A) unlocked for field operation.

CAUTION: Use seat belt whenever operating machine or riding as an observer.

8. Fasten seat belt.

CAUTION: Sound horn before starting engine to clear people away from machine.

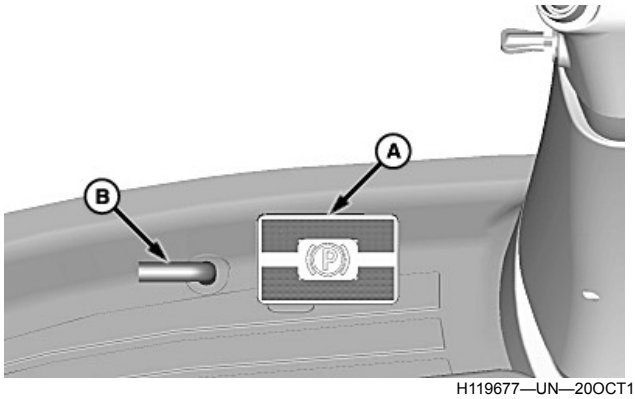
9. Sound horn and start engine. Use cold weather starting aid if needed.



H116348—UN—19DEC16

Header Raise/Lower Switch

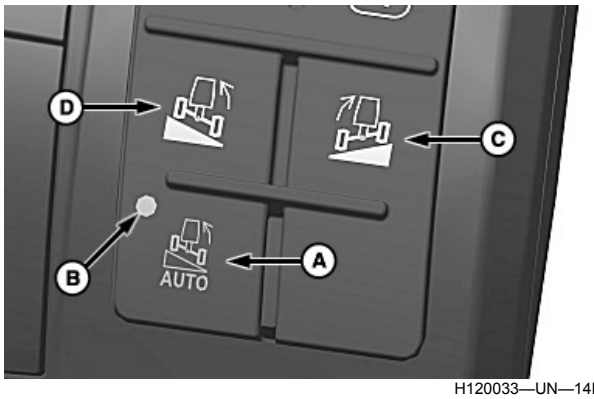
10. Raise header with the header switch.



H119677—UN—20OCT16

A—Park Brake
B—Pedal

11. **Mechanical Shift Transmission:** Disengage park brake (A) with pedal (B).



H120033—UN—14NOV16

HillMaster™ Switches

A—Automatic Leveling Control Switch
B—Indicator Light
C—Manual Tilt Right Switch
D—Manual Tilt Left Switch

12. **HillMaster™ Machines:**

CAUTION: Avoid loss of control during road transport and serious injury or death. Never transport machine on a roadway with HillMaster™ leveling system in automatic mode. Never attempt to manually tilt machine while transporting on a roadway.

a. Move machine to level ground.

NOTE: Road transport disconnect switch in field position.

b. Press automatic leveling control switch (A) for **5 seconds** or until indicator light (B) flashes.

c. Push and hold manual tilt right switch (C) to tilt the machine chassis to the right.

d. Push and hold manual tilt left switch (D) to tilt the machine chassis to the left.



H117022—UN—28MAR16

Road Transport Disconnect

NOTE: After transporting machine, press road transport disconnect switch for 2 seconds allowing indicator light to turn OFF and allowing desired switch functions to operate.

13. Engage road transport disconnect switch.



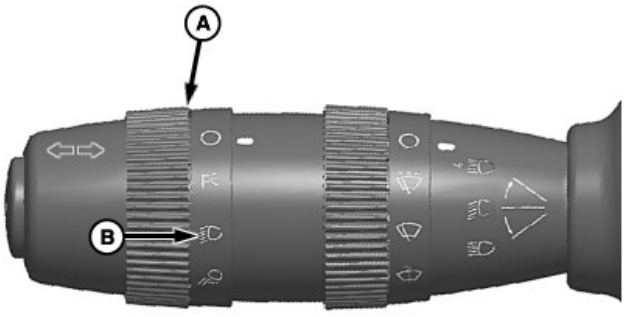
H117885—UN—29MAR16

Hazard Light

CAUTION: When transporting on a road or highway, marker/hazard lights and tail lights on both sides provide a warning to operators of vehicles approaching from the front and rear. These lights must be turned ON when driving machine on public roadways. Swing cab ladder fully forward to orient marker/hazard lights towards oncoming motorists. Do not operate marker/hazard lights if prohibited by law.

14. Turn beacon/hazard light switch ON for both daytime and nighttime road travel. Warning lights automatically operate when hazard lights are ON.

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H96014—UN—22JUN11

A—Selection Switch
B—Road Lights Switch

15. Use selection switch (A) to turn ON road lights (B) for nighttime travel.

NOTE: Turn signal indicators on corner post display illuminate to indicate a turn.

16. Use turn signals as needed. They are not self-canceling.



H117021—UN—28MAR16

Engine Speed (Fast Speed)

17. Press engine speed switch for maximum engine speed.

NOTE: For field operation, select a gear according to working conditions.

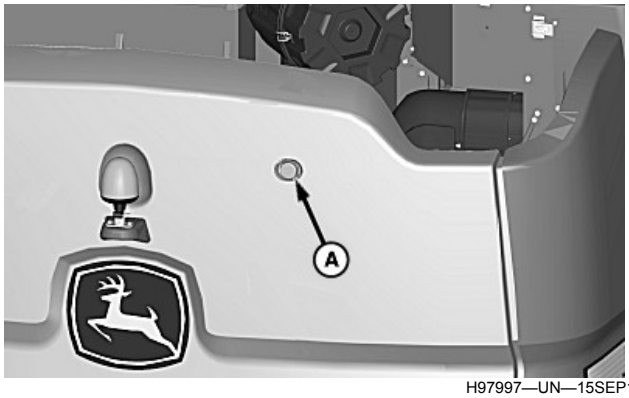
18. **Mechanical Shift Transmission:** Engage third gear for road travel.

CAUTION: If transporting machine with header attached, travel at a reasonable speed to ensure adequate braking performance and control of machine.

19. Slowly move the multi-function lever forward or rearward. When coming to the top of a hill, pull back on the multi-function lever before starting down the other side.

OUO6075,00048BD-19-12APR18

Back-Up Alarm



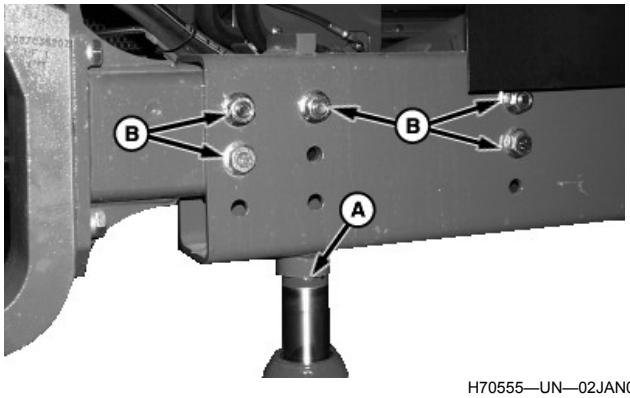
H97997—UN—15SEP10

A—Back-Up Alarm

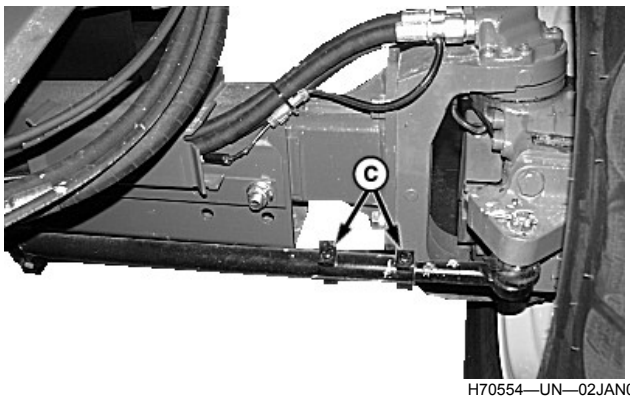
If multi-function lever is moved rearward while engine is running, back-up alarm (A) sends an acoustical signal to warn others around the machine that the operator is backing up.

OUO6075,00016AC-19-22NOV13

Transporting Machine on a Trailer



H70555—UN—02JAN02



H70554—UN—02JAN02

A—Jack Pocket
B—Cap Screw (5 used)
C—Cap Screws

NOTE: See Driving Machine on Roads earlier in this section for additional information that MUST be done before transporting machine on a trailer.

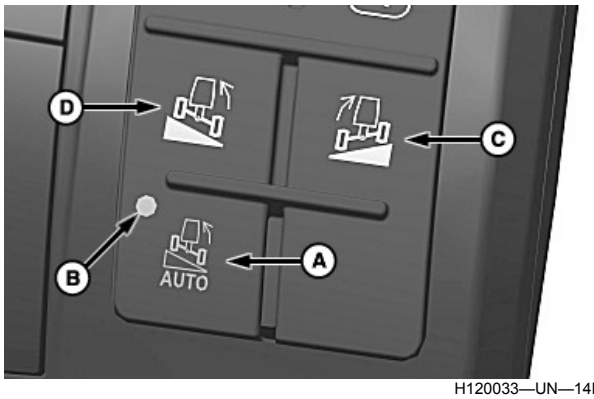
See Ground Drive and Rear Axle section for additional information that MUST be done when removing dual wheels (if equipped).

1. Remove header and outside dual wheels (if equipped).

NOTE: After transporting machine, adjust rear axle spacing to previous width.

2. Locate jack pocket (A) on the rear axle and raise machine.
3. Remove cap screws (B) from rear axle.
4. Remove cap screws (C) from tie rod.
5. Adjust rear axle to narrowest position. Repeat steps as needed on the opposite side.
6. Install previously removed hardware and tighten to specification.

Specification	
Axle Cap Screws—Torque	620 N·m (460 lb·ft)
Tie Rod Cap Screws (With 2 Cap Screws)—Torque	62 N·m (46 lb·ft)
Tie Rod Cap Screws (With 3 Cap Screws)—Torque	126 N·m (93 lb·ft)



H120033—UN—14NOV16

HillMaster™ Switches

A—Automatic Leveling Control Switch
B—Indicator Light
C—Manual Tilt Right Switch
D—Manual Tilt Left Switch

7. **HillMaster™ Machines:**

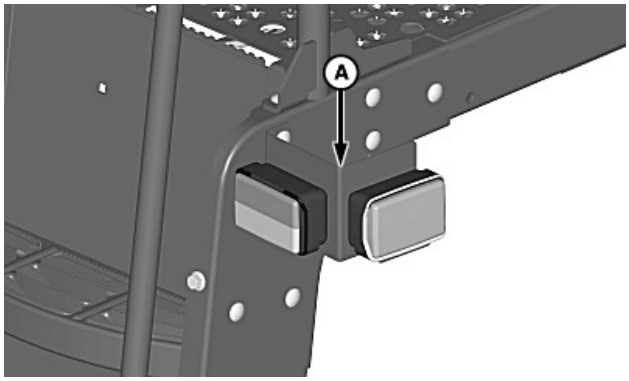
⚠ CAUTION: Never drive machine on a trailer with HillMaster™ leveling system in automatic mode. Never attempt to manually tilt machine while on trailer.

a. Move machine to level ground.

NOTE: Road transport disconnect switch in field position.

b. Press automatic leveling control switch (A) for **5 seconds** or until indicator light (B) flashes.
c. Push and hold manual tilt right switch (C) to tilt the machine chassis to the right.
d. Push and hold manual tilt left switch (D) to tilt the machine chassis to the left.

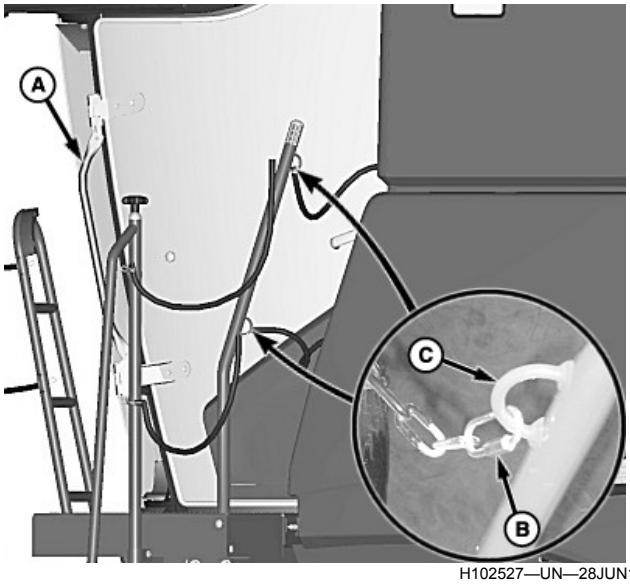
8. Drive machine on trailer and move the multi-function lever to neutral position.
9. **Dual Ladder Landing Configuration:** Lower feeder house onto trailer to allow ladder landing to be swung to transport position.
10. Shut OFF engine, set park brake and remove key.
11. Fold radio antenna down and retain with hook (if equipped). If the hook is not available, retain the antenna to cab roof with tape.



H121713—UN—07JUN17

A—Light Bracket

12. **Single Tire Configuration:** Disconnect wiring harness and remove light bracket (A).



H102527—UN—28JUN11

A—Handrail
B—Chain Link

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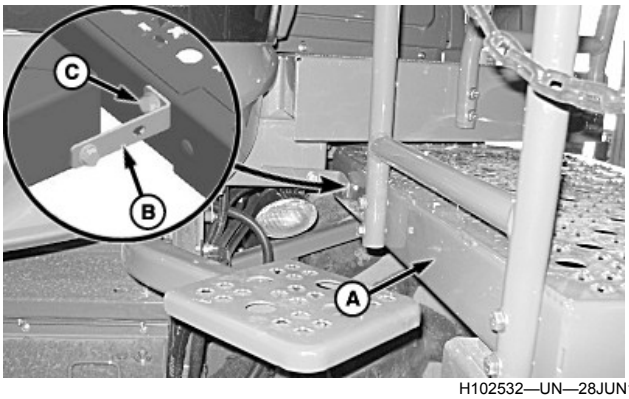
C—Handrail Loops

13. **Single Tire Configuration:** Remove and retain the cab handrail (A).

IMPORTANT: Possible injury to you or others can occur from falling. Be careful when disconnecting safety chains and dismounting ladder landing.

NOTE: Assemble chain back onto existing loops on ladder handrail and loops on the grain tank. This shortens the chain and prevents it from damaging the composite panels.

14. **Single Tire Configuration:** Disconnect and retain closure chain link (B) from handrail loops (C).

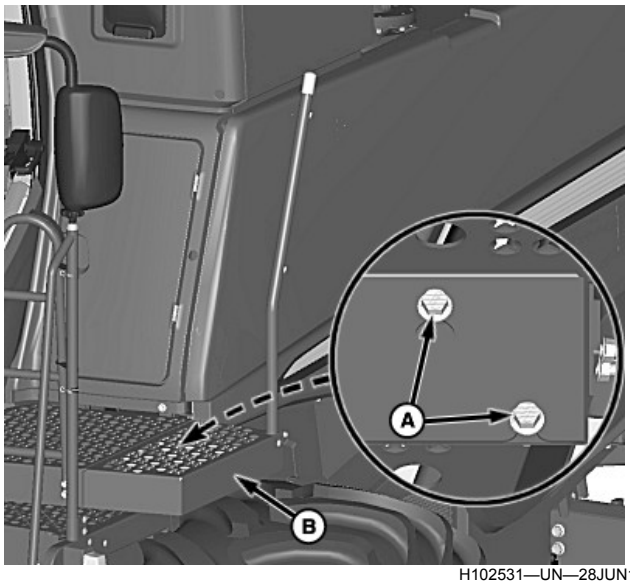


H102532—UN—28JUN11

A—Ladder Landing
B—Shipping Bracket
C—Cap Screw

NOTE: Cab ladder must be swung past innermost detent position to allow ladder landing to contact shipping bracket.

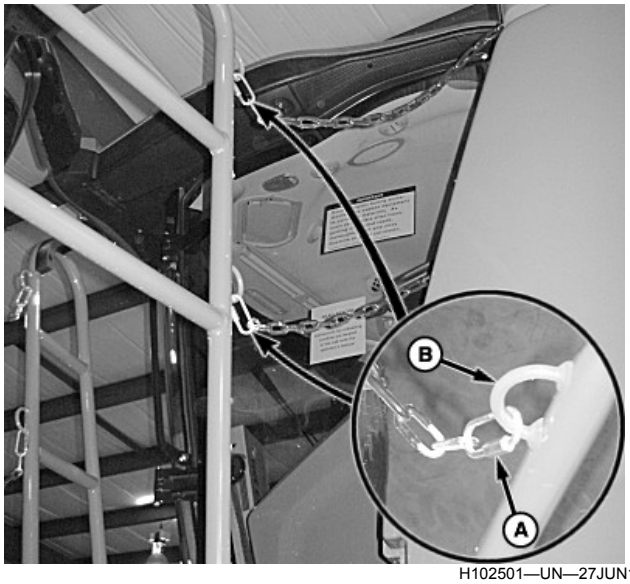
15. **Single Tire Configuration:** Swing ladder landing (A) to transport position until it contacts shipping bracket (B) and install cap screw (C).



H102531—UN—28JUN11

A—Cap Screw (5 used)
B—Ladder Landing

16. **Single Tire Configuration:** Loosen cap screws (A) and remove ladder landing (B).



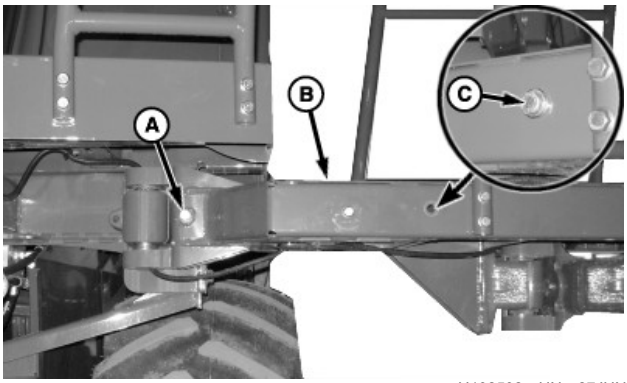
H102501—UN—27JUN11

A—Chain Link
B—Handrail Loop

IMPORTANT: Possible injury to you or others can occur from falling. Be careful when disconnecting safety chains and dismounting ladder landing.

NOTE: Assemble chain back onto existing loops on the grain tank. This shortens the chain and prevents it from damaging the composite panels.

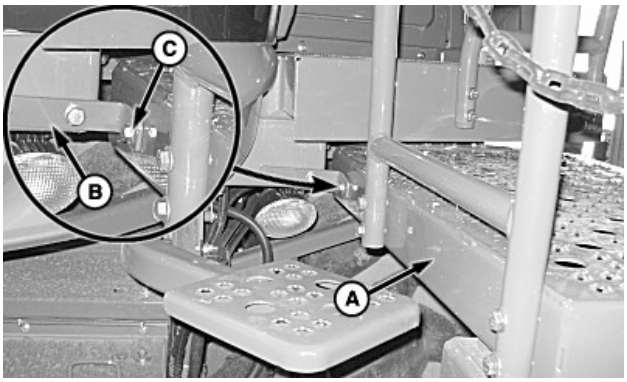
17. **Dual Tire Configuration:** Disconnect and retain closure chain link (A) from the handrail loop (B) on both sides of handrail.



H102502—UN—27JUN11

A—Cap Screw
B—Ladder Landing
C—Cap Screw

18. **Dual Tire Configuration:** Remove cap screw (A) and swing ladder landing (B) to transport position.
19. **Dual Tire Configuration:** Install previously removed cap screw (C) in storage position as shown.



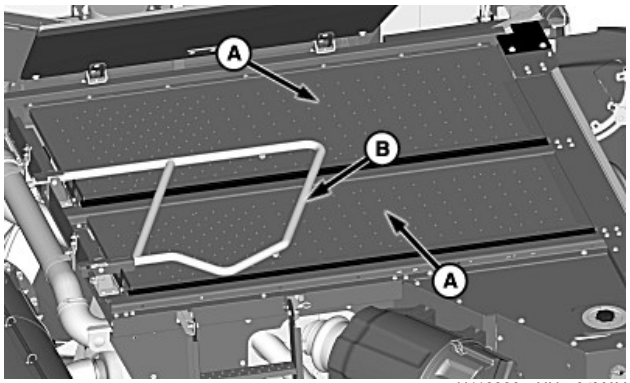
H102503—UN—28JUN11

A—Ladder Landing
B—Shipping Bracket
C—Cap Screw

IMPORTANT: Feeder house MUST be lowered onto trailer to avoid contact between the ladder landing and the feeder house driveshaft when ladder is swung forward.

NOTE: Cab ladder must be swung past innermost detent position to allow ladder landing to contact shipping bracket.

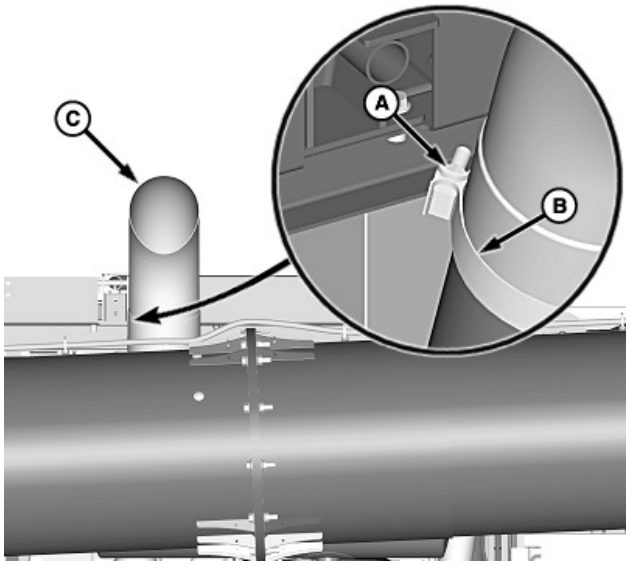
20. **Dual Tire Configuration:** Swing ladder landing (A) to transport position until it contacts shipping bracket (B) and install cap screw (C).



H118330—UN—04MAY16

A—Engine Access Covers
B—Handrail

21. Lower engine access covers (A) and handrail (B) to lock covers into place.



H121534—UN—16MAY17

A—Nut
B—Clamp
C—Muffler Extension

CAUTION: To reduce the risk of electrical shock by overhead power lines, no portion of the machine should exceed a height of 4 m (13 ft 1 in).

Allow exhaust system and components to cool before removing muffler extension and installing exhaust cap.

22. **Tier 2/Stage II Engines:** Loosen nut (A) on clamp (B).

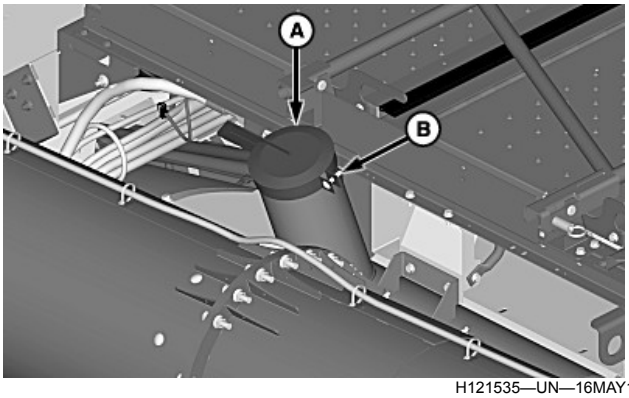
NOTE: Muffler extension MUST be removed when transporting machine on a trailer to reduce overall machine height. Retain muffler extension for future field use.

After transporting, install muffler extension and tighten clamp hardware to specification.

Specification

Clamp Hardware—Torque. . . . . 80 N·m (59 lb·ft)

23. **Tier 2/Stage II Engines:** Remove and retain muffler extension (C).



H121535—UN—16MAY17

A—Exhaust Cap
B—Nut

24. **Tier 2/Stage II Engines:** Install exhaust cap (A) as shown.

25. **Tier 2/Stage II Engines:** Tighten nut (B) to specification.

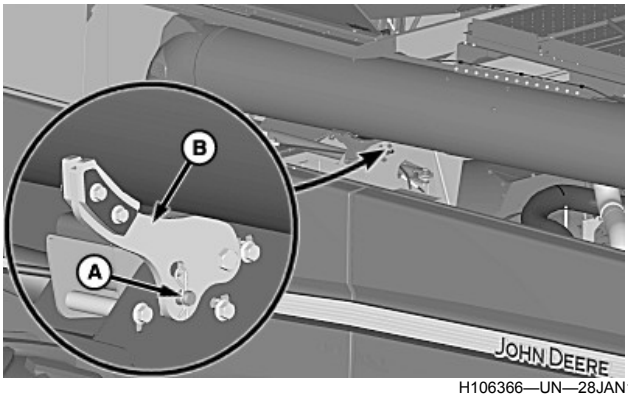
Specification

Nut—Torque. . . . . 20 N·m (177 lb·in)

26. **Tier 2/Stage II Engines:** Tape exhaust cap closed to prevent damage to turbocharger.



TS249—UN—23AUG88

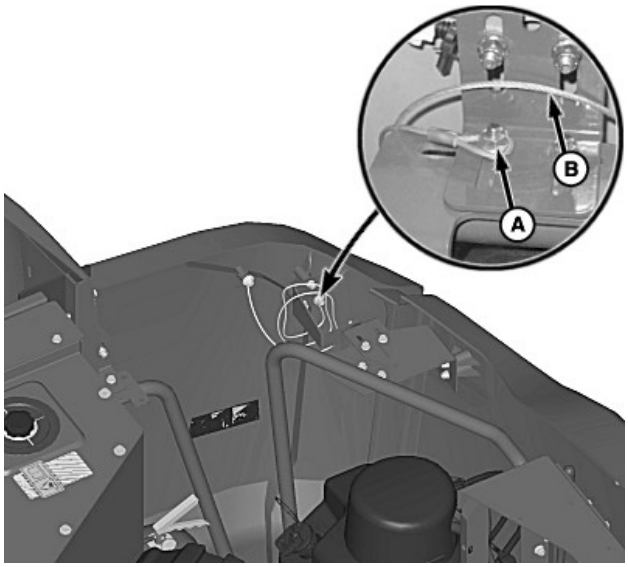


H106366—UN—28JAN13

A—Spring Pin and Pin
B—Unloading Auger Lock Arm

CAUTION: Possible injury or death to you or others can occur from falling. Use a ladder or equivalent with an appropriate load rating to access location when installing unloading auger retaining hardware. Do not attempt to access location from the engine platform.

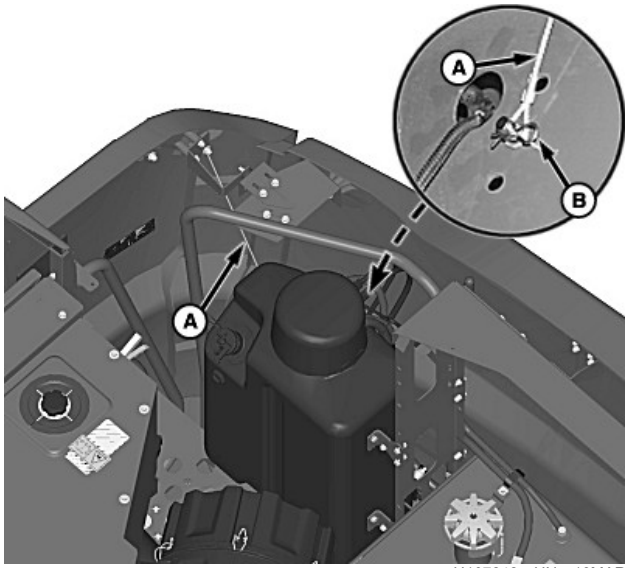
27. **Unloading Auger Lock Arm:**
    a. Remove and retain the spring pin and pin (A).
    b. Raise unloading auger lock arm (B) until holes align.
    c. Install previously removed pin and spring pin.



H107241—UN—18MAR13

A—Hardware
B—Cable

28. Loosen hardware (A) and remove cable (B) from storage position.



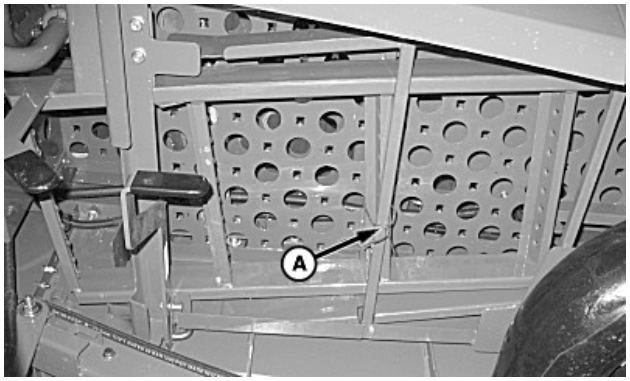
H107242—UN—18MAR13

A—Cable
B—Spring Pin

NOTE: Verify that cable is installed on inside portion of handrail.

Adjust pin to different positions if cable does not reach.

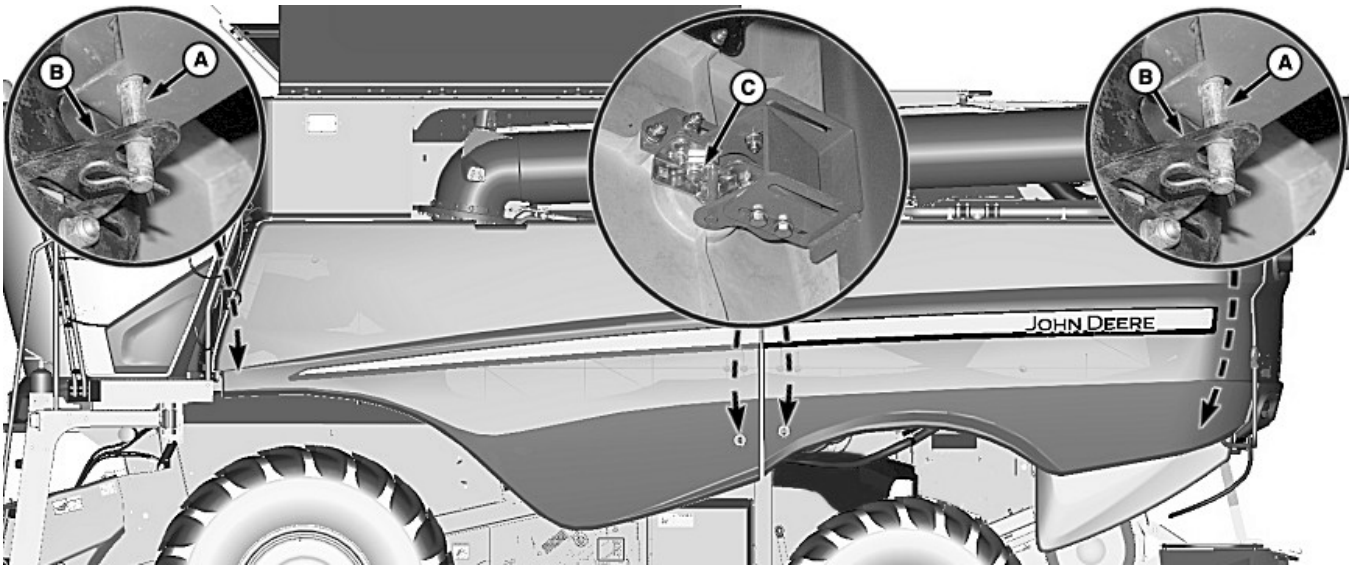
29. Install cable (A) over pin and retain with spring pin (B).



H97171—UN—29JUN10

A—Platform

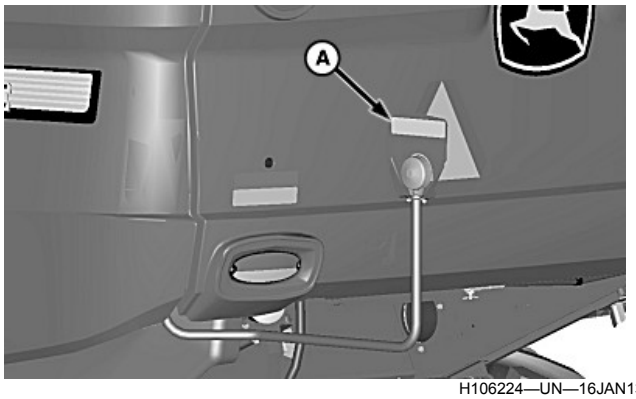
30. Tie the ladder extension to platform (A) using wire.



H114482—UN—08JUN15

A—Pins
B—Locking Plates
C—Latches

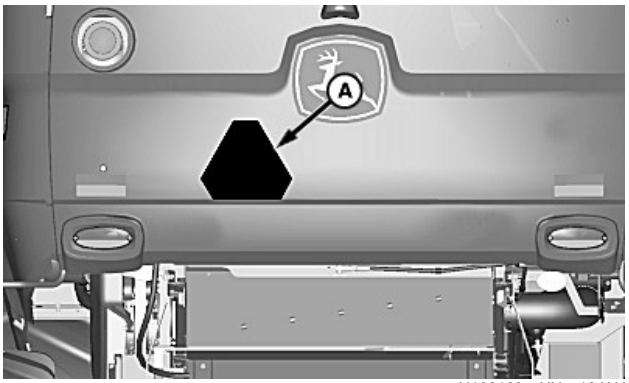
31. Install pins (A) through locking plates (B) and retain with spring pins at front and rear corners of the left-hand gull wing doors. Repeat on the opposite side of machine.
32. Use wire to tie the gull wing doors at latches (C). Repeat on the opposite side of machine.



H106224—UN—16JAN13

A—Hazard Lights

33. Swing left-hand and right-hand hazard lights (A) (if equipped) rearward as shown.



H106169—UN—16JAN13

A—Slow Moving Vehicle Emblem

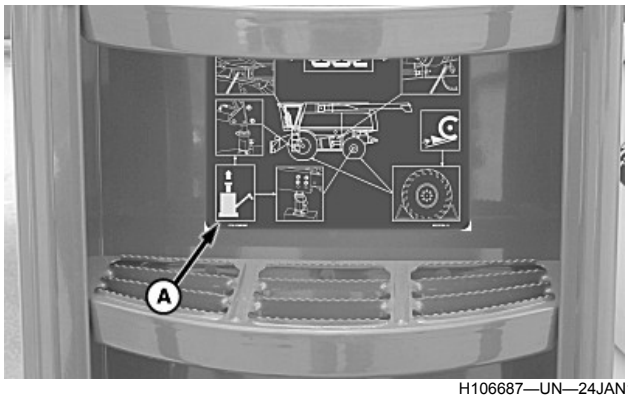
34. Cover up slow moving vehicle emblem (A) if equipped.

IMPORTANT: Fasten machine to trailer with chains.

35. Fasten machine to trailer with chains (see Machine Tie Down Locations Decal on cab ladder for tie-down information).

OUO6075,000491C-19-21MAY18

Machine Tie Down Locations Decal



H106687—UN—24JAN13

A—Machine Tie Down Locations Decal

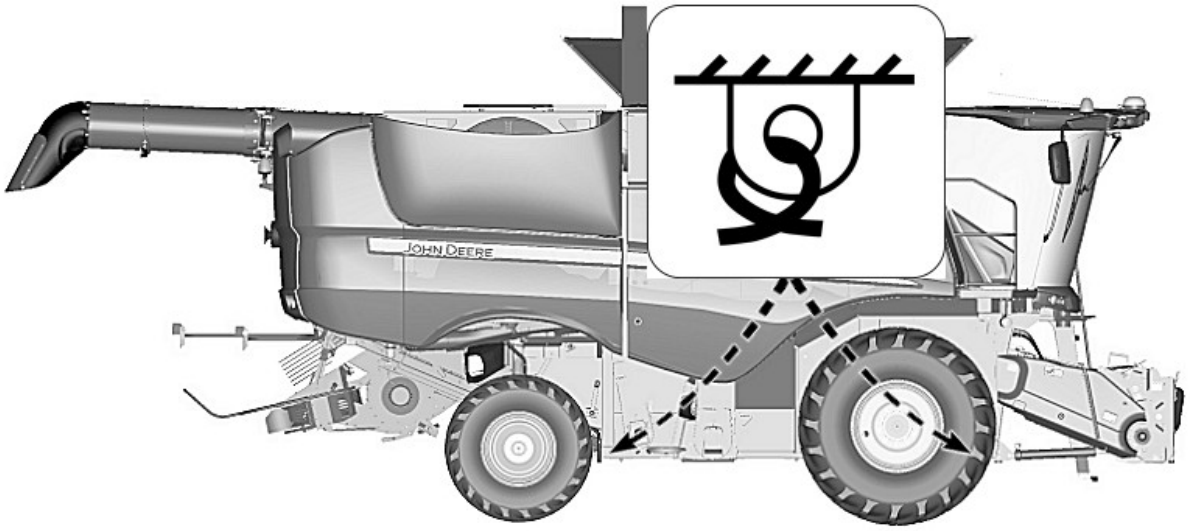
CAUTION: Always empty grain tank before raising machine.

NOTE: Machine tie down locations are on both sides of machine at front and rear.

Machine tie down locations decal (A) is located on cab ladder. Decal shows correct locations for fastening machine with chains.

OUO6075,0001393-19-24JAN13

Machine Tie Down Locations



H105885—UN—24OCT12

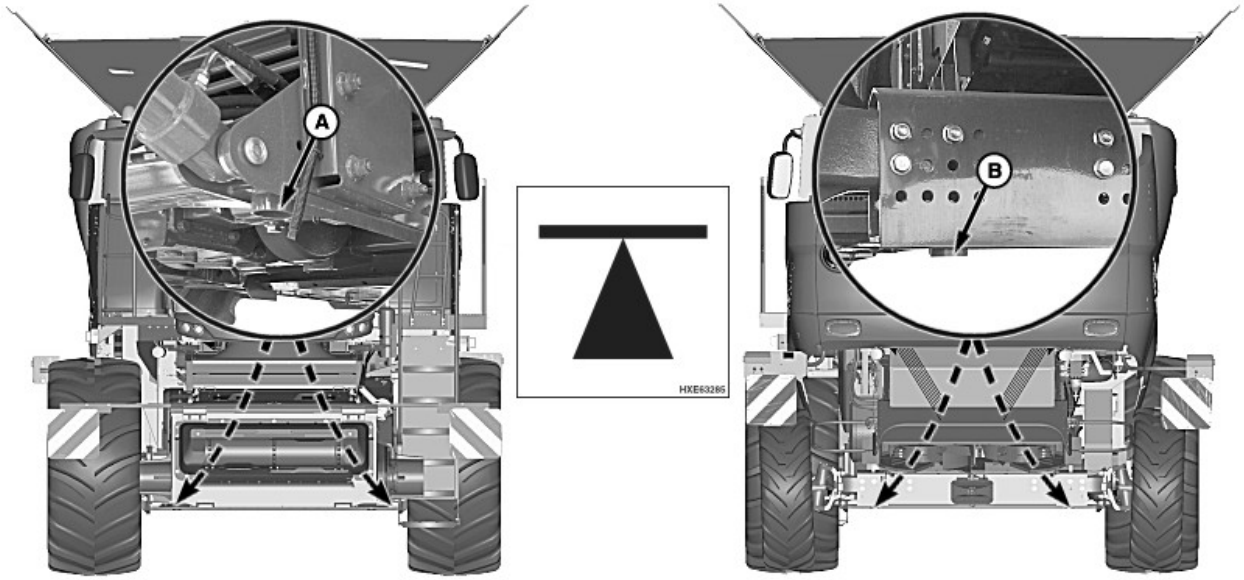
CAUTION: Always empty grain tank before transporting machine.

NOTE: Machine tie down locations are located on both sides of machine at front and rear.

Use provided locations shown on machine to properly tie down machine.

OUO6075,00011DC-19-10FEB16

Jack Pocket Locations



H105883—UN—24JAN13

A—Front Pocket Locations

B—Rear Pocket Locations

CAUTION: Always empty grain tank before raising machine.

Block both sides of tires to prevent machine movement.

NOTE: Jack pocket locations are located on both sides of machine at front and rear.

Do not raise machine at any other location than those with a jack pocket.

When towing, refer to Towing Machine in this section.

OUO6075,00011DA-19-21MAR16

OUO6075,0004318-19-24JUN16

Transport Information

CAUTION: To reduce the risk of electrical shock by overhead cables, no portion of machine should exceed a height of 4 m (13 ft 1 in). Grain tank cover must be closed and radio antenna turned to horizontal position before transporting machine.

Avoid electrical line entanglement. Grain tank cover must be closed and radio antenna turned to horizontal position before transporting machine.

Check local governmental regulations regarding driving or towing equipment on public roads. Use auxiliary lights and devices available from your John Deere dealer to warn other road users.

Machine can be transported on a flat bed truck or by towing.

Towing Machine (Mechanical Shift Transmission Machines)

NOTE: For push-button shift transmission machines and ProDrive™ transmission machines, see Transmission Application Help or Operator's Station Help for further information.

CAUTION: Do not tow machine with wire rope. If rope breaks, the whipping action could cause bodily injury.

Avoid electrical line entanglement. Grain extensions must be lowered and radio antenna lowered before transporting.

Check local governmental regulations regarding driving or towing equipment on public roads. Use auxiliary lights and devices available from your John Deere dealer to warn other roadway users.

Do not tow machine except in an emergency for a short distance at 8 km/h (5 mph). To tow machine, proceed as follows:

- Empty grain tank and remove header.
- Swing unloading auger back. Fold grain tank extensions.
- Swing ladder forward and fold down radio antenna.

ProDrive is a trademark of Deere & Company

- Disengage park brake.

CAUTION: Do not remove couplers. When couplers are removed, brakes are disabled.

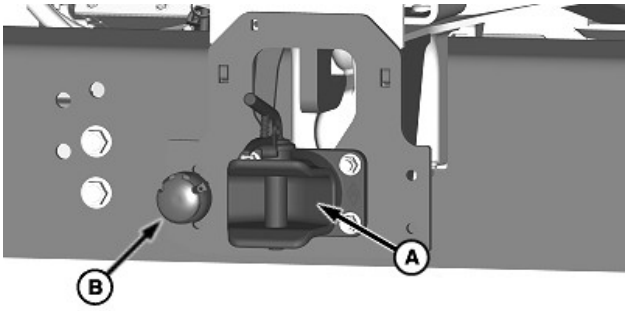
- Place gearshift lever and multi-function lever in neutral position.
- Tow machine in a forward direction by attaching a chain around the main axle. Be certain chain does not damage any hydraulic lines. Have driver in the operator's seat to steer and brake the machine.
- Turn warning lights ON, unless prohibited by law.
- Travel at a safe and reasonable speed, not to exceed 8 km/h (5 mph).

CAUTION: Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use hand signals or turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that are damaged or lost.

OUO6075,000447D-19-31JAN17

Manual Trailer Hitch—Attaching (Standard)



H118213—UN—14APR16

A—Hitch
B—Electrical Connector

CAUTION: Shut OFF engine, set park brake and remove key before hooking up trailer.

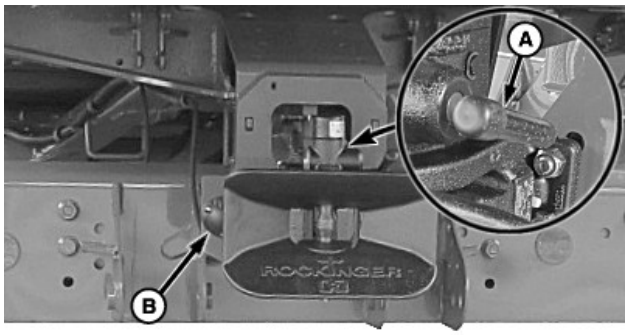
Fully raise the chopper.

Attach trailer to hitch (A) and secure with the trailer hitch pin.

Connect trailer electrical harness to electrical connector (B).

OUO6075,00042C1-19-29JUN16

Semi-Automatic Trailer Hitch—Attaching (Optional)



H111228—UN—12MAY14

A—Handle
B—Electrical Connector

CAUTION: Shut OFF engine, set park brake and remove key before hooking up trailer.

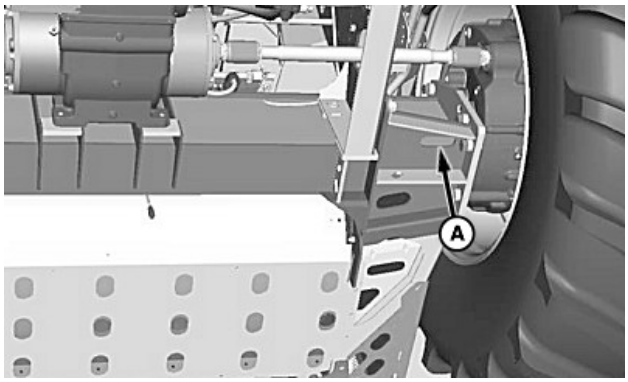
Fully raise the chopper.

Raise handle (A) to open lock pin and attach trailer to the machine. When the trailer hitch aligns with the lock pin, handle lowers automatically locking trailer hitch in place.

Connect trailer electrical harness to electrical connector (B).

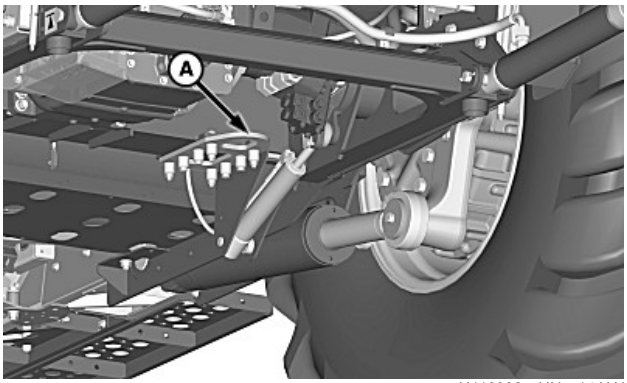
OUO6075,000431B-19-29JUN16

Front Tow Hook



H102206—UN—14JUN11

Front Tow Hook (Level Land Machine)



H116908—UN—14JAN16

Front Tow Hook (HillMaster™ Machine)

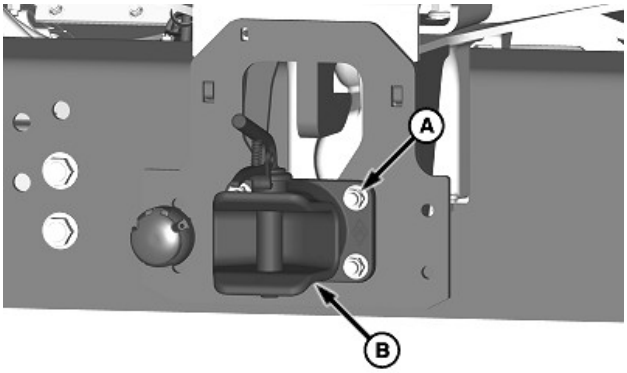
A—Hook

Tow or pull machine out of mud in a forward direction if necessary by attaching a chain to hook (A) on the front axle. Be certain chain will not damage any hydraulic lines.

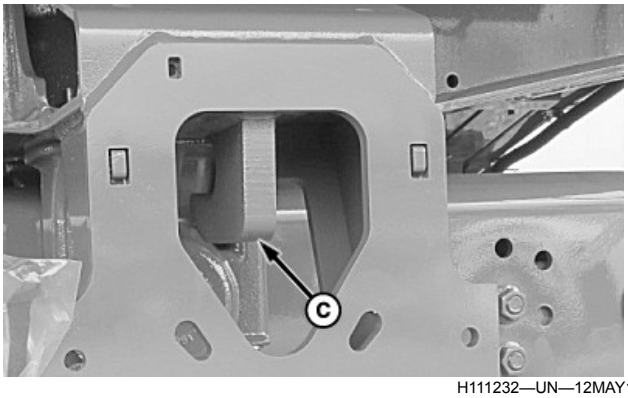
OUO6075,00044D1-19-14NOV16

Rear Tow Hook

Manual Trailer Hitch



H118216—UN—14APR16



H111232—UN—12MAY14

A—Cap Screw and Nut (4 used)
B—Trailer Hitch
C—Hook

CAUTION: Do not pull out machine by trailer hitch. Only use supplied tow hook. Always use a suitable chain. Do not exceed the breaking strength. Do not mix chain with tow straps or ropes. Energy stored in towing device could cause serious bodily injury if it breaks.

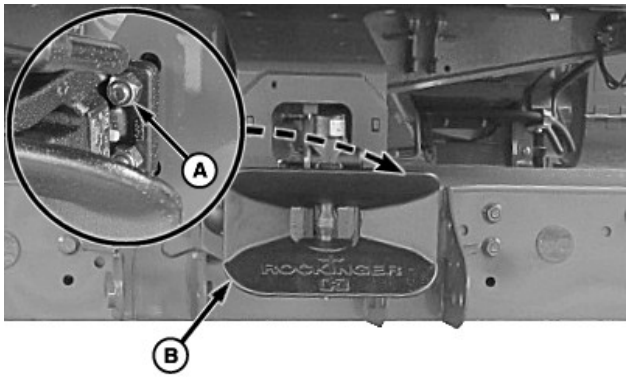
Remove cap screws and nuts (A) from trailer hitch (B).

Secure chain to hook (C) and pull out machine. Do not use this hook for pulling a trailer.

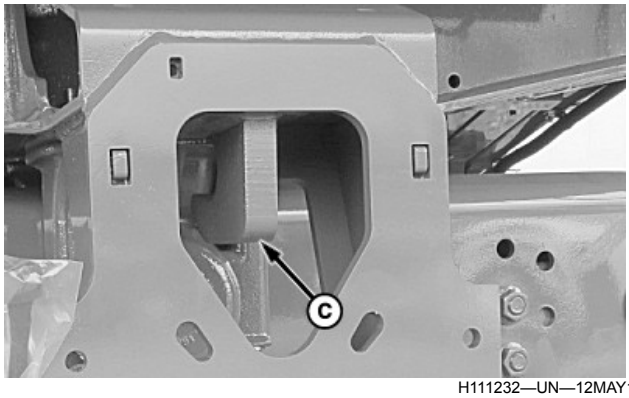
Install trailer hitch and retain with cap screws and nuts. Tighten hardware to specification.

Specification	
Trailer Hitch Hardware—Torque	205 N·m (151 lb·ft)

Semi-Automatic Trailer Hitch



H111231—UN—12MAY14



H111232—UN—12MAY14

A—Cap Screw and Nut (4 used)
B—Trailer Hitch
C—Hook

CAUTION: Do not pull out machine by trailer hitch. Only use supplied tow hook. Always use a suitable chain. Do not exceed the breaking strength. Do not mix chain with tow straps or ropes. Energy stored in towing device could cause serious bodily injury if it breaks.

Remove cap screws and nuts (A) from trailer hitch (B).

Secure chain to hook (C) and pull out machine. Do not use this hook for pulling a trailer.

Install trailer hitch and retain with cap screws and nuts. Tighten hardware to specification.

Specification	
Trailer Hitch Hardware—Torque	205 N·m (151 lb·ft)

OUO6075,00042C2-19-29JUN16

Harvesting Hints

Operation at Low Temperatures

IMPORTANT: When operating in cold temperatures, verify that proper grade diesel fuel is being used. Warmer grade diesel fuel will gel in fuel lines, fuel filters, and fuel tank. Fuel system requires servicing if diesel fuel gels. See Fuels and Lubricants section for further information.

Combine functions can degrade in low temperatures where snow and ice are present. Special care MUST be taken to ensure that minimal snow is ingested in combine. If snow is ingested, areas such as chaffer, cleaning fan, separator concaves, and separator grates can become obstructed. Operation with these areas obstructed could cause machine damage and significant repairs or result in functional performance degradation. Consult your John Deere dealer prior to operating in cold temperatures.

OUO6075,0004574-19-31JAN17

Harvesting Tips

Adjust machine to crop being harvested and to field conditions.

Select a ground speed that does not overload machine. Engine must be at full rpm to keep separator at full speed. Select a ground speed for slower travel, but do not slow engine speed.

If concave is set too close for harvested crop, straw will be excessively ground up requiring more horsepower to thresh the crop.

If concave is set too wide for harvested crop, it will not be completely threshed.

After concave is adjusted properly, adjust separator speed to achieve maximum threshing with the least amount of crop damage. If crop damage does occur, do not widen concave clearance. Instead reduce feed accelerator speed. Concave spacing in these crops has very little effect on seed damage.

Crops such as edible beans and peas are easily cracked and can require the use of a slower feed accelerator drive. When harvesting edible beans and peas keep machine full to provide enough material to cushion the crop against cracking.

For potential improvements in straw quality consider that the following can help improve straw quality depending on conditions:

- Slowing feeder house chain speed
- Slowing feed accelerator speed
- Slowing rotor speed
- Opening concave
- Reducing threshing elements
- Installing round bar concaves

For improved performance in sidehill conditions consider, raising auger bed dividers, installing tall chaffer dividers available from your John Deere dealer, and/or improve chaff and grain distribution by installing separator grate covers (if equipped). Each of these can improve chaff and grain distribution to the cleaning shoe that will help improve the machines performance in sidehill conditions.

When using a cutting platform, cut crop as high as possible without loss of low heads. Adjust reel position and speed for even feeding. Keep cutterbar in register and guards in alignment for clean cutting.

When harvesting corn, keep corn head only as low as necessary for ears. Keep it centered in the rows to prevent ear loss.

When using a belt pickup, keep windrow centered so material is fed evenly into feeder house. Grain heads must be lying in one direction. Operate machine so heads are picked up first.

When harvesting soybeans with a row-crop head, keep header as low as possible. When harvesting crops such as milo or sunflowers, operate header just low enough to cut the heads from the stalks.

Adjust chaffer openings to pass grain or seed to the lower sieve in the first two-thirds of the chaffer without admitting too much coarse material.

Use as much air as possible without blowing over clean grain and seed. Heavy crops require more air than light seed crops.

SS43267,00004E6-19-03FEB15

Activation Button Mode Combinations

NOTE: Press and hold activation buttons 1, 2, or 3 on the multi-function lever for 2 seconds to enter desired modes into memory.

A few common modes are shown below, but many combinations exist.

Control Modes Enabled	Activation Button 1	Activation Button 2	Activation Button 3
Height Resume	Height Resume		
Height Resume, Height Sensing	Height Resume	Height Sensing	
Height Resume, HydraFlex™ Height Sensing	Height Resume	HydraFlex™ Height Sensing	
Height Resume, Height Sensing, HydraFlex™ Height Sensing [a]	Height Resume	Height Sensing	HydraFlex™ Height Sensing
Height Resume, Height Sensing, HydraFlex™ Height Sensing [b]	Height Resume	Height Sensing	HydraFlex™ Height Sensing
Height Resume, Height Sensing, Active Header Float	Height Resume	Height Sensing	Active Header Float
Height Resume, HydraFlex™ Height Sensing, Active Header Float	Height Resume	HydraFlex™ Height Sensing	Active Header Float
Height Resume, Active Header Float	Height Resume		Active Header Float
Height Sensing	Height Sensing		
HydraFlex™ Height Sensing	HydraFlex™ Height Sensing		
Height Sensing, HydraFlex™ Height Sensing [a]	Height Sensing		HydraFlex™ Height Sensing
Height Sensing, HydraFlex™ Height Sensing [b]	Height Sensing		HydraFlex™ Height Sensing
Height Sensing, HydraFlex™ Height Sensing, Active Header Float [a]	Height Sensing, HydraFlex™ Height Sensing		Active Header Float
Height Sensing, Active Header Float	Height Sensing		Active Header Float
HydraFlex™ Height Sensing, Active Header Float	HydraFlex™ Height Sensing		Active Header Float
Active Header Float	Active Header Float		
Reel Position Resume	Reel Position Resume		
Deck Plate Position Resume	Deck Plate Position Resume		
Hydraulic Feeder House Fore/Aft Tilt (If Equipped)	Hydraulic Feeder House Fore/Aft Tilt		
Cutterbar Fore/Aft Position [c]	Cutterbar Fore/Aft Position		

HydraFlex is a trademark of Deere & Company
[a]See your John Deere dealer to enable Height Sensing and HydraFlex Height Sensing, requires 600F or 600FD with auxiliary height sensors or 600D with gauge wheels.
[b]Default mode with 600D platform if gauge wheels are unpinned during calibration, requires 600D with gauge wheels.
[c]European 600X Header Platforms.

OUO6075,000493A-19-30MAY18

Change Tire Radius Code

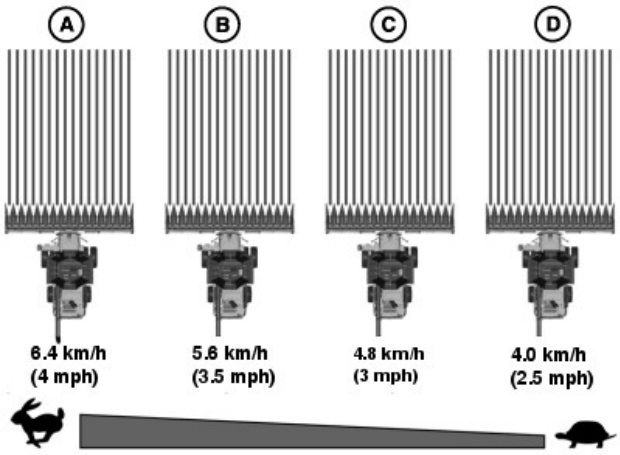
It will be necessary to recalibrate system if tires or final drives are changed from what was originally shipped from the factory. Verify that correct tire code is entered into memory.

IMPORTANT: When changing drive wheels, tire radius may also change. CAB control unit MUST be set to new tire radius. See your John Deere dealer for further information.

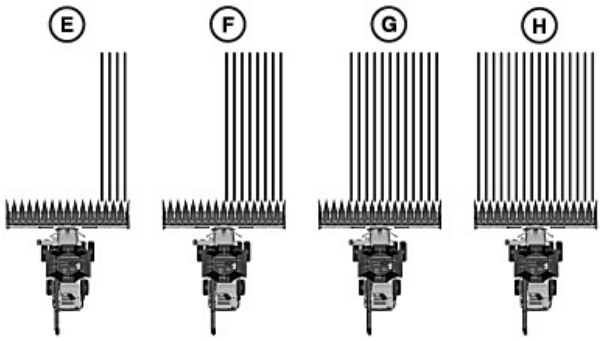
Failure to calibrate system will result in inaccurate Harvest Monitor Yields.

OUO6075,0001111-19-11APR12

Single Point Yield Calibration Or Multi-Point Yield Calibration



H105056—UN—19MAR12



H105057—UN—19MAR12

A—Load 1
B—Load 2
C—Load 3
D—Load 4
E—Minimum Flow
F—Medium Flow
G—Medium Flow
H—Maximum Flow

NOTE: Varying machine ground speed is the best way to vary the flow rate.

The best way to keep the flow rate constant is to monitor the VisionTrak™ display and adjust machine ground speed accordingly.

Single Point Yield Calibration

Single point yield calibration is performed when one or up to three calibration loads are collected.

This type of calibration is suggested when the harvested field has a fairly consistent yield and machine is operated at a constant ground speed with little flow variation.

To collect a calibration load, harvest approximately 2722 kg (6000 lb) at the maximum harvest speed.

Running one or two additional loads is not required, but it may allow the system to average the overall error.

Multi-Point Yield Calibration

Multi-point yield calibration is used when the harvested field is expected to have varying yields or machine is operated at varying speeds with varying grain flows.

This type of calibration collects each calibration load at each expected flow condition.

For each calibration load, harvest approximately 2722 kg (6000 lb).

Run at least **four** calibration loads over various ground speeds (A—D) or at different cut widths to simulate four different flow rates (E—H).

OUO6075,000430B-19-16JUN16

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Crop Settings

Alfalfa / Barley

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Alfalfa	Barley
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	32 Tooth
Feed Accelerator Speed ***(B)* (J)****	High	High
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	600—800	700—950
Threshing Clearance	0—5	5—22
Concave Type (North America) ***(F)****	Small Wire	Small Wire
Concave Type (Europe) ***(F)****	Small/Small/Large	Small/Small/Large
Separator Grate Covers ***(D)****	Use As Required	Use As Required
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	550—700	850—1100
Adjustable Front Chaffer (If Equipped) (mm)	5—10	24
Chaffer Clearance (mm)	10—20	13—18
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	1—4	6—9
Tailings System Concave Position (If Equipped)	Grain	Grain
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,0004985-19-30MAY18

Canola / Chickpeas

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Canola	Chickpeas
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	32 Tooth	26 Tooth
Feed Accelerator Speed ***(B)* (J)****	High	Low
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	350—550 ***(L)****	400—600
Threshing Clearance	15—40	18—24
Concave Type (North America) ***(F)****	Small Wire	Round Bar/Large Wire
Concave Type (Europe) ***(F)****	Small/Small/Large	Round Bar/Large Wire
Separator Grate Covers ***(D)****	Use As Required	Use As Required
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	600—900	800—1100
Adjustable Front Chaffer (If Equipped) (mm)	5—10	24
Chaffer Clearance (mm)	10—14	15—20
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	2—5	6—10
Tailings System Concave Position (If Equipped)	Corn	Corn
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,0004986-19-05JUN18

Corn (Dry) / Corn (Wet)

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Corn Dry	Corn Wet
Feeder House Drum Position	Up	Up
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	26 Tooth
Feed Accelerator Speed ***(B)* (J)****	Low ***(C)****	Low
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	250—450	350—500
Threshing Clearance	20—35	20—35
Concave Type (North America) ***(F)****	Round Bar	Round Bar
Concave Type (Europe) ***(F)****	Round Bar	Round Bar
Separator Grate Covers ***(D)****	None	None
Separator Grate Spacers	Installed	Installed
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	900—1300	1000—1300
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	15—20 (Premium Corn) 15—20 (Deep-Tooth) 17—22 (General-Purpose)	16—21 (Premium Corn) 16—21 (Deep-Tooth) 18—22 (General-Purpose)
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	10—14 (Deep-Tooth) 11—15 (General-Purpose)	10—14 (Deep-Tooth) 11—15 (General-Purpose)
Tailings System Concave Position (If Equipped)	Corn	Corn
Crop Diverter	Corn	Corn
Knife Bank Engagement	Disengaged Only	Disengaged Only
Chopper Speed	Low	Low

OUO6075,0004994-19-29MAY18

Corn Cob Mix / Edible Beans

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Corn Cob Mix (H)* (M)*	Edible Beans
Feeder House Drum Position	Up	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)***	26 Tooth	22 Tooth ***(P)****
Feeder House Conveyor Chain (Europe) ***(A)* (B)***	26 Tooth	22 Tooth ***(P)****
Feed Accelerator Speed ***(B)* (J)****	Low	Low ***(C)****
Feed Accelerator Wear Strips (North America)	Serrated	Backswept Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Backswept Serrated
Threshing Speed (rpm) ***(B)* (E)****	450—650	300—500 ***(L)****
Threshing Clearance	15—30	15—30
Concave Type (North America) ***(F)****	Large Wire ***(K)****	Round Bar/Large Wire
Concave Type (Europe) ***(F)****	Large Wire ***(K)****	Round Bar/Large Wire
Separator Grate Covers ***(D)****	None	None
Separator Grate Spacers	Either	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Advanced
Fan Speed (rpm)	1000—1300	800—1100
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	22	14 - 18
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	Removed	6—10
Tailings System Concave Position (If Equipped)	Corn	Corn
Crop Diverter	Corn	Grain
Knife Bank Engagement	Disengaged Only	Allowed
Chopper Speed	Low	High

OUO6075,0004987-19-29MAY18

Flax / Grass Seed

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Flax	Grass Seed
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	32 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	32 Tooth
Feed Accelerator Speed ***(B)* (J)****	High	High
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	800—1000	500—850 ***(N)****
Threshing Clearance	0—10	12—25
Concave Type (North America) ***(F)****	Small Wire	Small Wire
Concave Type (Europe) ***(F)****	Small Wire	Small/Small/Large
Separator Grate Covers ***(D)****	Use As Required	Use As Required
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	700—1050	350—600 ***(I)****
Adjustable Front Chaffer (If Equipped) (mm)	24	5—10
Chaffer Clearance (mm)	8—15	12—18
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	5—10	5—12
Tailings System Concave Position (If Equipped)	Grain	Grain
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,0004988-19-29MAY18

Guar (Cluster Beans) / Lentils

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Guar (Cluster Beans)	Lentils
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	26 Tooth
Feed Accelerator Speed ***(B)* (J)****	Low	Low
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	500—700	350—500
Threshing Clearance	10—15	7—12
Concave Type (North America) ***(F)****	Round Bar	Round Bar/Large Wire
Concave Type (Europe) ***(F)****	Round Bar	Small/Small/Large
Separator Grate Covers ***(D)****	None	Use As Required
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	650—750	800—1000
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	10—15	12—18
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	6—10	3—10
Tailings System Concave Position (If Equipped)	Corn	Corn
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,0004989-19-29MAY18

Lupins / Millet

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Lupins	Millet
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)***	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)***	26 Tooth	26 Tooth
Feed Accelerator Speed ***(B)* (J)***	Low	High
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	400—600	400—500
Threshing Clearance	12—18	10—15
Concave Type (North America) ***(F)****	Round Bar/Large Wire	Small Wire
Concave Type (Europe) ***(F)****	Round Bar/Large Wire	Small/Small/Large
Separator Grate Covers ***(D)****	Use As Required	None
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	900—1100	600—750
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	15—20	10—12
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	4—8	4—6
Tailings System Concave Position (If Equipped)	Corn	Grain
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,000498A-19-29MAY18

Mustard / Navy Beans

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Mustard	Navy Beans
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)***	26 Tooth	22 Tooth ***(P)****
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	22 Tooth ***(P)****
Feed Accelerator Speed ***(B)* (J)****	High	Low ***(C)****
Feed Accelerator Wear Strips (North America)	Serrated	Backswept Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Backswept Serrated
Threshing Speed (rpm) ***(B)* (E)****	600—900	300—350 ***(L)****
Threshing Clearance	10—20	15—30
Concave Type (North America) ***(F)****	Small Wire	Round Bar
Concave Type (Europe) ***(F)****	Small/Small/Large	Round Bar
Separator Grate Covers ***(D)****	Use As Required	None
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Advanced
Fan Speed (rpm)	500—800	800—1100
Adjustable Front Chaffer (If Equipped) (mm)	5—10	24
Chaffer Clearance (mm)	10—14	14—18
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	2—5	6—10
Tailings System Concave Position (If Equipped)	Grain	Corn
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,000498B-19-29MAY18

Oats / Peas

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Oats	Peas
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	32 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	32 Tooth	26 Tooth
Feed Accelerator Speed ***(B)* (J)****	High	Low
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	600—900	300—400
Threshing Clearance	15—25	15—30
Concave Type (North America) ***(F)****	Small Wire	Round Bar/Large Wire
Concave Type (Europe) ***(F)****	Small/Small/Large	Round Bar/Large Wire
Separator Grate Covers ***(D)****	Use As Required	None
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Advanced
Fan Speed (rpm)	750—900	850—1050
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	18—22	16—20
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	6—10	6—11
Tailings System Concave Position (If Equipped)	Grain	Corn
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,000498C-19-29MAY18

Popcorn / Rape Seed (Dry)

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Popcorn	Rape Seed (Dry)
Feeder House Drum Position	Up	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	32 Tooth
Feed Accelerator Speed ***(B)* (J)****	Low	Low
Feed Accelerator Wear Strips (North America)	Smooth	Serrated Tough Crop
Feed Accelerator Wear Strips (Europe) ***(G)****	Smooth	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	210—310	400—700 ***(L)****
Threshing Clearance	15—25	20—40
Concave Type (North America) ***(F)****	Round Bar	Small Wire
Concave Type (Europe) ***(F)****	Round Bar	Small/Small/Large
Separator Grate Covers ***(D)****	None	Use As Required
Separator Grate Spacers	Installed	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	900—1100	620—800
Adjustable Front Chaffer (If Equipped) (mm)	24	5—10
Chaffer Clearance (mm)	14—18	11—14
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	6—8	3—6
Tailings System Concave Position (If Equipped)	Corn	Corn
Crop Diverter	Corn	Grain
Knife Bank Engagement	Disengaged Only	Allowed
Chopper Speed	Low	High

OUO6075,000498D-19-05JUN18

Rape Seed (Green) / Rice

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Rape Seed (Green)	Rice
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	32 Tooth	32 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	32 Tooth	32 Tooth
Feed Accelerator Speed (North America) ***(B)* (J)****	Low	High
Feed Accelerator Speed (Europe) ***(B)* (J)****	High	High
Feed Accelerator Wear Strips (North America)	Serrated Tough Crop	Tine
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Tine
Threshing Speed (rpm) ***(B)* (E)****	500—800 ***(L)****	700—1000 ***(N)****
Threshing Clearance	20—40	15—25
Concave Type (North America) ***(F)****	Small Wire	Large Wire
Concave Type (Europe) ***(F)****	Small/Small/Large	Large Wire
Separator Grate Covers ***(D)****	Use As Required	None
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	700—850	700—900
Adjustable Front Chaffer (If Equipped) (mm)	5—10	24
Chaffer Clearance (mm)	11—14	16—20
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	4—8	5—10
Tailings System Concave Position (If Equipped)	Corn	Corn
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,000498E-19-05JUN18

Rye / Safflower

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Rye	Safflower
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	26 Tooth
Feed Accelerator Speed ***(B)* (J)****	High	Low
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	700—900	300—400
Threshing Clearance	13—26	15—25
Concave Type (North America) ***(F)****	Small Wire	Small Wire
Concave Type (Europe) ***(F)****	Small/Small/Large	Small/Small/Large
Separator Grate Covers ***(D)****	Use As Required	Use As Required
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	750—950	550—750
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	16—18	14—16
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	6—10	4—7
Tailings System Concave Position (If Equipped)	Grain	Corn
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,000498F-19-29MAY18

Sorghum / Soybeans

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Sorghum	Soybeans
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	26 Tooth
Feed Accelerator Speed ***(B)* (J)****	Low	Low
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	550—700	450—650
Threshing Clearance	10—25	15—30
Concave Type (North America) ***(F)****	Round Bar/Large Wire	Round Bar/Large Wire
Concave Type (Europe) ***(F)****	Round Bar/Large Wire	Round Bar/Large Wire
Separator Grate Covers ***(D)****	Use As Required	None
Separator Grate Spacers	In Storage Position	Either
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	900—1100	800—1050
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	14—17	14—18 (General-Purpose) 13—17 (Deep-Tooth)
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	5—8	6—10 (General-Purpose) 5—9 (Deep-Tooth)
Tailings System Concave Position (If Equipped)	Corn	Corn
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,0004990-19-29MAY18

Sunflower / Triticale

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Sunflower	Triticale
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	26 Tooth	32 Tooth
Feed Accelerator Speed ***(B)* (J)****	Low	High
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	200—400	850—1000
Threshing Clearance	25—40	18—24
Concave Type (North America) ***(F)****	Round Bar/Large Wire	Small Wire
Concave Type (Europe) ***(F)****	Round Bar/Large Wire	Small/Small/Large
Separator Grate Covers ***(D)****	Use As Required	Use As Required
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Advanced	Standard
Fan Speed (rpm)	650—850	750—1000
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	10—15	16—18
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	3—10	6—10
Tailings System Concave Position (If Equipped)	Corn	Grain
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,0004991-19-29MAY18

Wheat Difficult / Wheat Normal

NOTE: Various crop settings shown are for average conditions. Varying crop and field conditions may require slightly different settings.
** Refer to Footnotes Description Page later in this section for more detailed information.*

	Wheat Difficult	Wheat Normal
Feeder House Drum Position	Down	Down
Feeder House Conveyor Chain (North America) ***(A)* (B)****	26 Tooth	26 Tooth
Feeder House Conveyor Chain (Europe) ***(A)* (B)****	32 Tooth	32 Tooth
Feed Accelerator Speed ***(B)* (J)****	High	High
Feed Accelerator Wear Strips (North America)	Serrated	Serrated
Feed Accelerator Wear Strips (Europe) ***(G)****	Serrated Tough Crop	Serrated Tough Crop
Threshing Speed (rpm) ***(B)* (E)****	800—1000	750—950
Threshing Clearance	3—15	8—16
Concave Type (North America) ***(F)****	Small Wire	Small Wire
Concave Type (Europe) ***(F)****	Small/Small/Large	Small/Small/Large
Separator Grate Covers ***(D)****	Use As Required	Use As Required
Separator Grate Spacers	In Storage Position	In Storage Position
Top Cover Transport Vanes ***(O)**** (If Equipped)	Standard	Standard
Fan Speed (rpm)	900—1250	900—1250
Adjustable Front Chaffer (If Equipped) (mm)	24	24
Chaffer Clearance (mm)	13—18	13—18
Dual Zone Adjust Rear Chaffer Clearance (mm)	5 Level 10 Sidehill	5 Level 10 Sidehill
Sieve Clearance (mm)	3—8	3—8
Tailings System Concave Position (If Equipped)	Grain	Grain
Crop Diverter	Grain	Grain
Knife Bank Engagement	Allowed	Allowed
Chopper Speed	High	High

OUO6075,0004992-19-29MAY18

Footnotes Description Page

(A)* *For poor feeding straw crops due to high volume, green, or windrowed conditions, the 32-tooth drive sprocket is recommended.*

(B)* *For improved straw quality in dry crops and grain quality, use lower speed. For dry, brittle sunflowers a 15-tooth drive sprocket can be used.*

(C)* *For improved grain quality, use slow down kit to 320 rpm.*

(D)* *In shoe overloading conditions in dry crops, with small wire concaves, initially install two rows on right side and three rows on left side of the separator grates. With large wire concaves, initially install three rows on right side and two rows on left side of separator grates. Adjust number and pattern as required by condition.*

(E)* *15 elements is the standard configuration. In most conditions 15 elements will require less power leading to higher capacity, less shoe load, and less straw damage. An additional 9 element locations (Dense Pack) are available on tough crop rotors which can be used in tough material handling conditions.*

(F)* *For improvement in threshing, grain tank sample, and chaff load distribution in small grain, first install concave covers in front concave. Additional covers can be added to other concaves as needed.*

(G)* *Recommendations other than Serrated Tough Crop will require conversion of Feed Beater.*

(H)* *Tailings sump cover recommended.*

(I)* *Cleaning fan slow down kit may be required.*

(J)* *For increased material handling use High speed.*

(K)* *Wires may be removed for increased cob capture.*

(L)* *Discharge paddles can be installed for improved material handling in rotor if using TriStream™ Rotor.*

(M)* *Utilize Corn Cob Mix separator grates.*

(N)* *In extremely tough material handling conditions, threshing tines may be installed in place of threshing elements (threshing performance may be reduced).*

(O)* *Advanced setting may be used for improved straw quality and/or material handling. Note: Separator loss may increase when advanced.*

(P) Available through service parts.*

OUO6075,0001365-19-13DEC12

Concave Recommendations

Concave Type	Corn	Soybeans	Wheat Barely Small Grains	Rice	Popcorn Food Corn	Sorghum (Milo) Sunflowers (Confection)	Sunflowers (Oil)	Canola
Small Wire	NR	NR	Best	NR	NR	NR	Average	Best
Large Wire	Good	Good	Good	Best	NR	Best	Best	Good
Round Bar	Best	Best	Average	Good	Best	Average	Best	Average

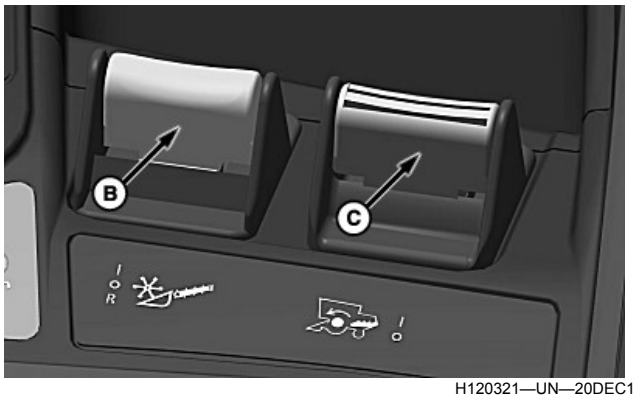
Best = Provides best level of performance.
Good = Provides a good level of performance.
Average = Provides an average level of performance.
NR = Not recommended.

OUO6075,00017DE-19-07MAY14

Power Shutdown Procedure



H95321—UN—02NOV10



H120321—UN—20DEC16

A—Key Switch
B—Header Engage Switch
C—Separator Engage Switch

NOTE: A power shutdown is used to determine the machines performance in the threshing and separating areas by taking a "snap-shot" of the material in the separator. This is valuable in determining where the losses behind the machine are generated and what adjustments can be made to correct the condition.

Verify that crop condition and material intake is similar for each shutdown.

1. Locate engine speed indicator on corner post display and threshing speed readout on armrest display.
2. Lock brake pedals together.
3. Operate machine at optimized throughput levels in desired crop.
4. Move steering wheel forward for free motion (both hands needed).
5. Press low idle engine speed switch on armrest.
6. Depress brake pedals.
   a. **Non-ProDrive™ machines:** Fully depress brake pedals (quickly pulls engine speed down by loading propulsion system).
   b. **ProDrive™ machines:** Lightly depress brake pedals (ProDrive™ attempts to repower and will downshift changing machine dynamics if brakes are fully depressed).
7. As engine speed drops to near low idle speed (1200 rpm), **quickly disengage header (B) and separator engage (C) switches on armrest.**
8. Quickly move the multi-function lever to neutral position.

9. Allow engine to cool for a minute.
10. Turn key switch (A) to shut OFF engine, set park brake and remove key.
11. Inspect for excessive grain damage, kernels left on the cobs, and free grain loss before making any adjustments.
12. Decide what adjustments are needed. Open threshing clearance and engage separator (avoids undue stress to cylinder drive area during cleanout).
13. Adjust machine to desired settings and continue harvesting.
14. Repeat this procedure and verify grain quality and losses behind machine.
15. Once acceptable loss levels are attained, calibrate VisionTrak™ Monitor and continue to harvest.

OUO6075,0004571-19-10JAN17

VisionTrak is a trademark of Deere & Company

Payable Moisture and Density Chart

Crop	Standard Moisture (%)	Crop Density (lbs/bushel)	Crop Density (kg/bushel)
Alfalfa	12.0	60	27
Barley	14.0	48	22
Barley (Winter) [a]	14.5	48	22
Barley (Spring) [a]	14.5	48	22
Canola	10.0	52	24
Chickpeas [a]	12.0	61	27
Corn (Dry or Wet)	15.0	56	25
Edible Beans	14.5	60	27
Flax	7.0	56	25
Grass Seeds	12.0	22	10
Lentils	10.5	60	27
Lupins [a]	12.0	53	24
Millet	11.0	50	23
Mustard	8.0	60	27
Navy Beans	14.5	62	28
Oats	14.0	32	15
Oats [a]	15.0	32	15
Peas	10.5	60	27
Peas [a]	12.0	60	27
Popcorn	14.0	60	27
Popcorn [a]	15.5	60	27
Rape Seed (Dry or Wet) [a]	10.0	52	24
Rice	14.0	45	20
Rye	14.0	56	25
Safflower	6.0	45	20
Sorghum	13.0	56	25
Soybeans	13.0	60	27
Sunflower	14.0	29	11
Sunflower [a]	9.0	20	11
Triticale [a]	14.5	58	26
Wheat (Spring)	13.0	60	27
Wheat (Winter)	13.0	60	27

[a] *European crop listing only.*

OUO6075,0000E89-19-22MAR12

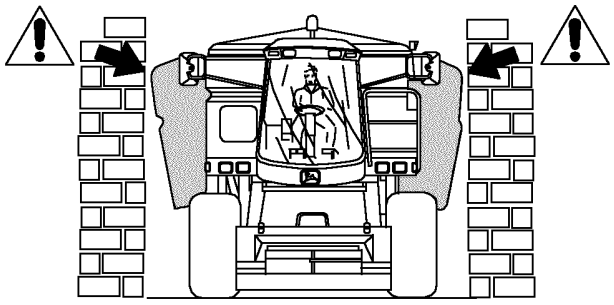
Standard Weights Chart

Unit	Weight (lb)	Weight (kg)
Barrels	162.0	73.5
Sacks	100.0	45.4
Hundred Weight	100.0	45.4
Pounds (lb)	1.0	0.454
Kilograms (kg)	2.204	1.0
Metric Tons	2204.0	1000.0
Tons	2000.0	907.0

OUO6075,0000435-19-15APR10

HillMaster™ Leveling System (If Equipped)

HillMaster™ System (General Information)



ZX 002438

ZX002438—UN—16JUN95

CAUTION: HillMaster™ must only be used in the field. Before driving on public roads, machine must be lowered to transport position, so maximum height is less than 4.0 m.

Care must be taken when turning machine on slopes. Follow these precautions when turning machine on slopes in order to avoid loss of stability and potential rollover of machine:

- **Never turn machine faster than leveling system can keep machine level.**
- **Always turn uphill and never downhill.**
- **Do not move onto steeper grades once maximum tilt limit indicator appears on display.**

Avoid crushing injuries. Always lower the leveling system before getting underneath the machine for service or adjustments. Shut OFF engine, set park brake and remove key.

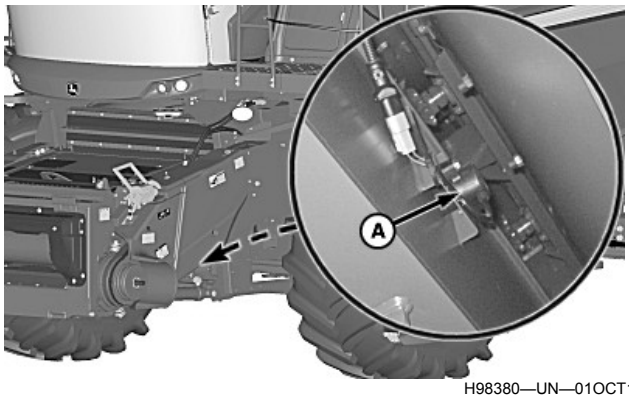
IMPORTANT: Before actuating manual leveling control switch, verify that parking brake is released.

Do not park machine too close to other machines or building walls. This is important as machine may tilt due to internal loss of oil pressure when parked for long periods of time. This may cause damage to the machine and adjacent machines or walls.

Standard final drives are mounted to the pivoting carrier plates on the front axle. Hydraulic cylinders are used to pivot the carrier plates up and down to tilt the machine. Separator remains level as machine moves over uneven ground.

System is operated manually using HillMaster™ tilt left and right buttons or in automatic mode.

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H98380—UN—01OCT10

Tilt Sensor Located on Front Axle

A—Tilt Sensor

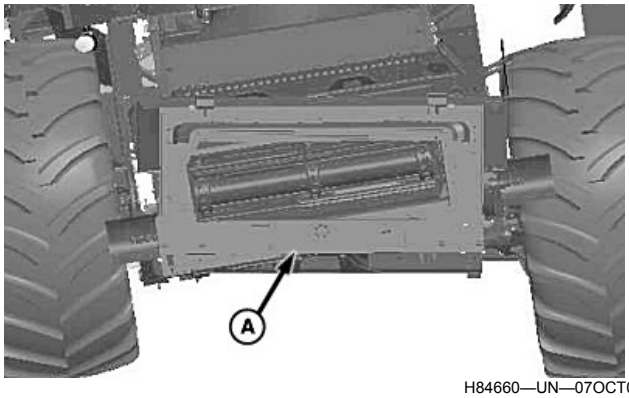
In automatic mode, tilt sensor (A) levels the body of the machine and remains level as the machine moves across the field.

As field slope changes, a pitch sensor measures the angle of tilt and provides a signal to the control unit. At the appropriate time and angle of tilt, the control circuit sends an electronic signal to the right or left tilt solenoid on the tilt leveling control valve.

NOTE: Sensor keeps the separator level within one degree during field operation. When operating on rough or irregular ground, separator level position may exceed this one degree for a short time.

Tilt system keeps separator level on slopes up to 15%. If operated on slopes greater than 15%, maximum tilt limit indicator appears on display.

Lateral Tilt Operation



H84660—UN—07OCT05

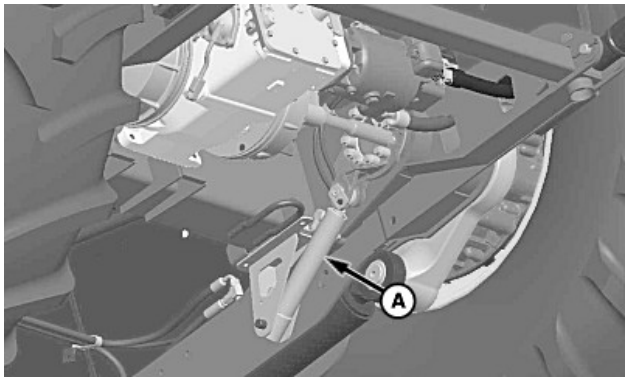
A—Feeder House

Lateral tilt assists in keeping the header parallel with the ground as the machine separator tilts to stay level. The system uses a specially equipped feeder house (A) that enables the header to tilt left and right.

HillMaster™ along with the lateral tilt function allows header to tilt left and right ± 9 degrees. Both systems allow the header to cut properly on slopes up to 15%.

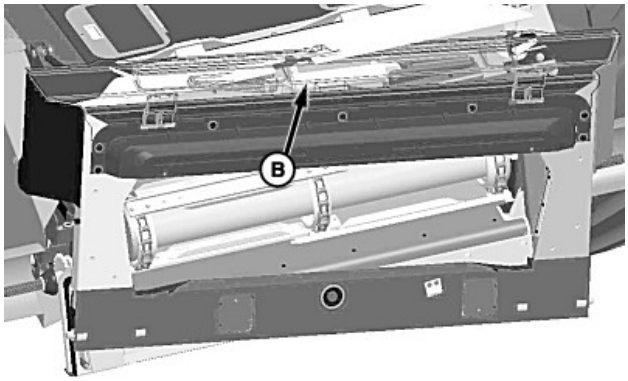
The tilt system uses a double-acting primary/secondary

cylinder arrangement to tilt header with respect to the chassis.



H84613—UN—04OCT05

Primary Cylinder Located on Left-Hand Side



H84661—UN—07OCT05

Header Tilt Secondary Cylinder

A—Header Tilt Primary Cylinder
B—Header Tilt Secondary Cylinder

The header tilt primary cylinder (A) is connected between the front axle and the left final drive carrier plate. The header tilt secondary cylinder (B) is on top of the feeder house and connects the tilt frame to the feeder house. During normal operation, the header automatically stays parallel to ground as separator tilts left or right staying level.

NOTE: Areas around the feeder house tilt frame need cleaned regularly to prevent buildup of material, which could limit full tilt travel.

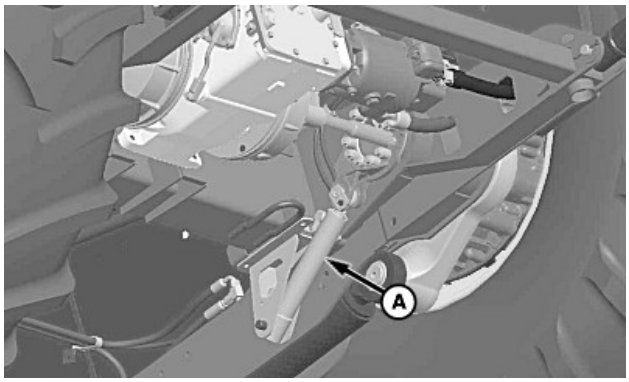
Operator can override automatic header leveling feature by using the lateral tilt switches on the multi-function lever. When the lateral tilt switches are pressed, oil from the main hydraulic valve block is added or removed from the header tilt circuit, allowing it to move independently of the feeder house and chassis.

For automatic operation, the header must be equipped with sensors and calibrated prior to the first use.

Enable the lateral tilt system through the software. System is activated by pressing activation buttons 1, 2 or 3 on the multi-function lever.

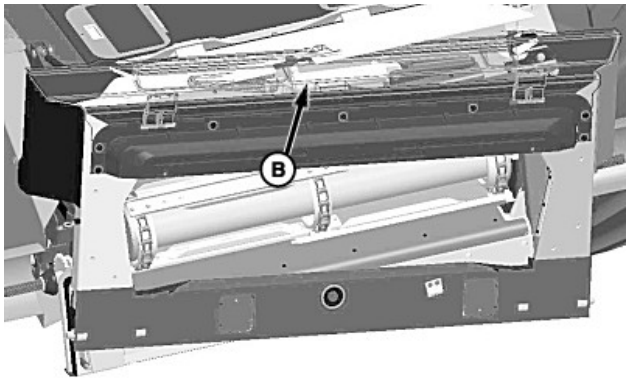
Signals from sensors at both left and right ends are processed and the appropriate hydraulic control valve is energized to level header with respect to ground.

Header Tilt Cylinders



H84613—UN—04OCT05

Primary Cylinder Located on Left-Hand Side



H84661—UN—07OCT05

Header Tilt Secondary Cylinder

A—Header Tilt Primary Cylinder
B—Header Tilt Secondary Cylinder

The header angle is determined by a primary/secondary cylinder arrangement. The primary cylinder (A) is connected between the chassis and the left final drive carrier plate. The secondary cylinder (B) is connected between the feeder house and the tilt frame.

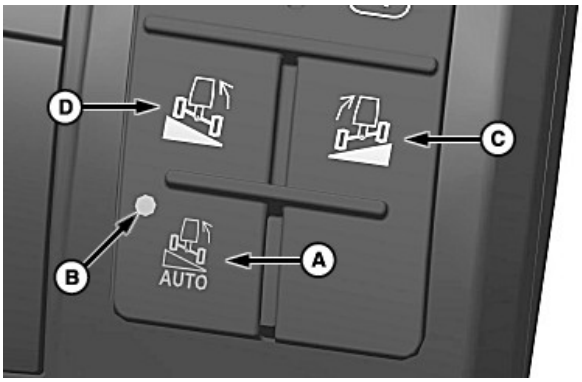
Rod ends of the primary and secondary cylinders are connected to each other and the piston ends of the primary and secondary cylinders are connected to each other. As the left leveling cylinder extends and retracts, the left final drive carrier plate pivots up and down and extends or retracts the header tilt primary cylinder. Movement of the primary cylinder extends and retracts the secondary cylinder.

As the primary cylinder extends through the movement of the final drive carrier plate, oil flows from the rod end of the primary cylinder to the rod end of the secondary cylinder. This causes the secondary cylinder to retract. Oil from the base end of the secondary cylinder flows to the base end of the primary cylinder to fill the additional volume created as the primary cylinder was extended.

When the primary cylinder is retracted by movement of the final drive carrier plate, the opposite occurs.

OUO6075,00044CC-19-10JAN17

HillMaster™ Daily Operation Preparations



H120033—UN—14NOV16

HillMaster™ Switches

A—Automatic Leveling Control Switch
B—Indicator Light
C—Manual Tilt Right Switch
D—Manual Tilt Left Switch

CAUTION: Do not attempt to operate HillMaster™ machine unless all of the following operational checks are completed successfully. If one or more of the following checks fail (separator does not tilt or time to reach full tilt is excessive), contact your John Deere dealer for assistance.

Before operating HillMaster™ machine the following three operational checks must be performed (daily).

System Requirements:

- Engine is running.
- Road transport disconnect switch in field position.
- Press automatic leveling control switch (A) to activate automatic leveling system.
- Indicator light (B) turns ON indicating setting is in automatic mode.

Check One: Push and hold manual tilt right switch (C) for approximately 20 seconds to tilt the machine chassis to the right.

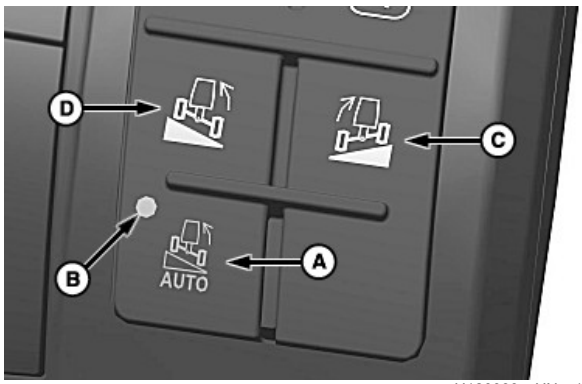
Check Two: Push and hold manual tilt left switch (D) for approximately 20 seconds to tilt the machine chassis to the left.

NOTE: Time required to bring machine from maximum left tilt position to maximum right tilt position is approximately 5—7 seconds.

Check Three: Press and hold manual tilt left switch until machine is tilted fully to the left. Push and hold manual tilt right switch until the machine chassis is tilted fully to the right.

OUO6075,00044CD-19-25JAN17

HillMaster™ Leveling Control Switches



H120033—UN—14NOV16

HillMaster™ Switches

A—Automatic Leveling Control Switch
B—Indicator Light
C—Manual Tilt Right Switch
D—Manual Tilt Left Switch

Automatic Leveling

Automatic leveling control switch (A) allows the machine separator to automatically level itself as machine moves over rolling ground.

System Requirements:

- Engine is running.
- Road transport disconnect switch in field position.

1. Press automatic leveling control switch to activate automatic leveling system.
2. Indicator light (B) turns ON indicating setting is in automatic mode.
3. Display shows position of machine chassis body graphically.

A pitch sensor is used to sense the slope of the machine as it moves across the field.

NOTE: With the automatic leveling control system activated, manual tilt switches can be used to overcome automatic functions (machine may be tilted manually left or right).

Manual Leveling

Manual tilt switches allow the machine chassis to be tilted left or right manually as machine moves over rolling ground.

System Requirements:

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- Engine is running.
- Road transport disconnect switch in field position.

NOTE: Push-Button Shift Transmission Machines: Push manual tilt right switch (C) or manual tilt left switch (D) to enable HillMaster™ mode. Push park brake switch to disengage park brake.

Push and hold manual tilt right switch (C) to tilt the machine chassis to the right.

Push and hold manual tilt left switch (D) to tilt the machine chassis to the left.

NOTE: When manual desired tilt switch is released, automatic mode takes over and levels machine chassis automatically.

Display shows position of machine chassis body graphically.

A pitch sensor is used to sense the slope of the machine as it moves across the field.

NOTE: With the automatic leveling control system activated, manual tilt switches can be used to overcome automatic functions (machine may be tilted manually left or right).

Road Transport Position

CAUTION: Avoid loss of control during road transport and serious injury or death. Never transport machine on the roadway with HillMaster™ in automatic mode. Never attempt to manually tilt machine while transporting on a roadway.

The following lockouts the HillMaster™ leveling system and ensures that leveling system does not shift during road transport.

System Requirements:

- Engine is running.
- Road transport disconnect switch in field position.

1. Move machine to level ground.
2. Press automatic leveling control switch for **5 seconds** or until indicator light (B) flashes.
3. Push and hold manual tilt right switch (C) to tilt the machine chassis to the right.
4. Push and hold manual tilt left switch (D) to tilt the machine chassis to the left.

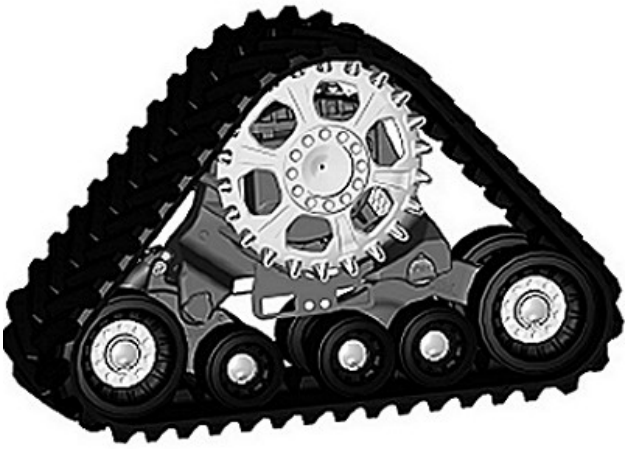
Machine is now in neutral position and can be driven on roadway.

OUO6075,0004941-19-12APR18

HillMaster is a trademark of Deere & Company

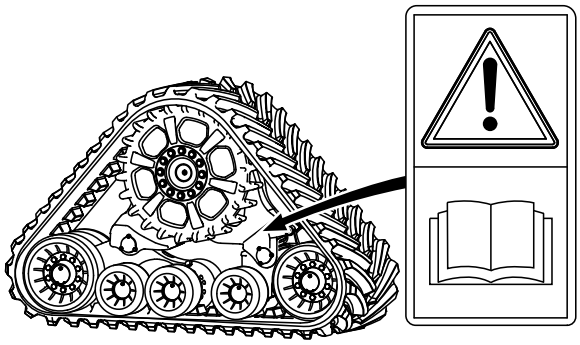
John Deere Tracks (If Equipped)

Machine Photo



H122227—UN—10AUG17
OUO6041,0000C1B-19-25AUG17

Operator's Manual

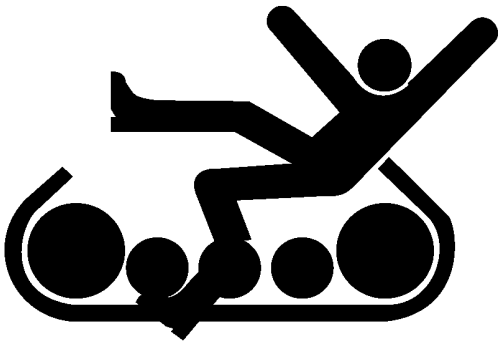


H122407—UN—03OCT17

This operator's manual contains all important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.

OUO6041,0000CE6-19-13NOV17

Safe Track Operating Practices



H48148—UN—12DEC96

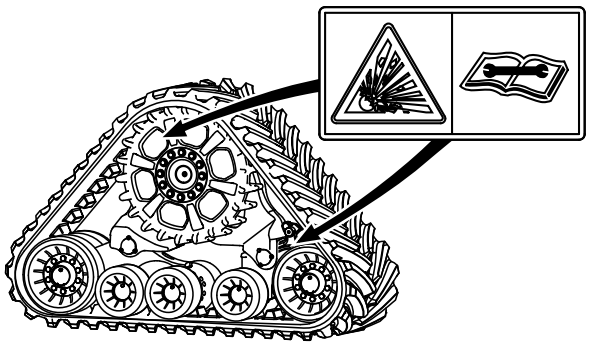
DO NOT stand near tracks when machine is running.

Safe operating practices of track drive machines are no different from wheel drive machines.

ALWAYS refer to your Combine Operator's Manual, and review Safety section before operating machine. The Combine Operator's Manual details safe operating practices that must be followed to protect you and others from accidental death and/or injury.

OUO6075,00014B9-19-03DEC13

Accumulator

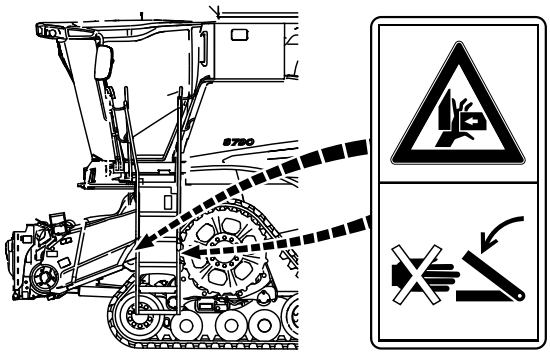


H122408—UN—03OCT17

To avoid injury from machine movement and exposure to fluid under pressure, see dealer for instruction on relieving pressure before servicing hydraulic system.

OUO6041,0000CE5-19-13NOV17

Cab/Platform Access Ladder

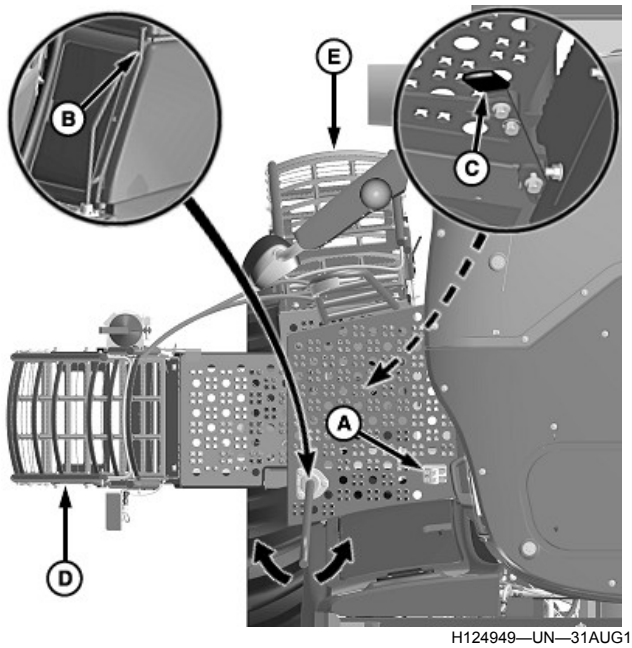


H124936—UN—05SEP18

To avoid injury from crushing, keep hands and fingers away from this area.

OUO6041,0000DBA-19-06SEP18

Cab Ladder Positions (60.9 cm (24 in) Wide Tracks)



H124949—UN—31AUG18

A—Pedal
B—Handle
C—Handle
D—Position (Field)
E—Position (Roadway Driving)

CAUTION: Avoid injury or death. Do not ride or attempt to climb front or rear ladders while machine is moving.

Ladder can be positioned from the ladder landing by stepping on pedal (A) and turning handle (B) simultaneously. Turn the handle in either direction to swing the ladder assembly.

Ladder can be positioned from the ground using handle (C).

If the ladder latch appears loose, clean out latch pin area. Do not use oil or grease in this area.

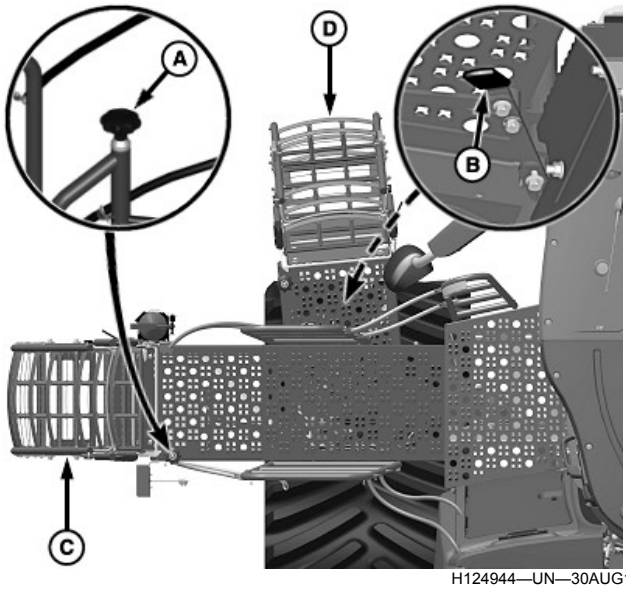
Swing ladder forward or rearward and lock into these different positions:

- **Position (D):** For the normal operating field conditions.
- **Position (E):** For transporting the machine on public roadways.

CAUTION: Avoid accidents. Always place ladder in the folded position (up position) and swing ladder to position (E) before transporting on public roadways to reduce machine width and to position marker/hazard light towards oncoming motorists.

OUO6075,0004A21-19-11SEP18

Cab Ladder Positions (76.2 cm (30 in) and 91.4 cm (36 in) Wide Tracks)



H124944—UN—30AUG18

A—Handle
B—Lever
C—Position (Field)
D—Position (Roadway Driving)

CAUTION: Avoid injury or death. Do not ride or attempt to climb front or rear ladders while machine is moving.

Ladder can be positioned from ground or from the ladder landing using handle (A) or lever (B).

If the ladder latch appears loose, clean out latch pin area. Do not use oil or grease in this area.

Swing ladder forward or rearward and lock into these different positions:

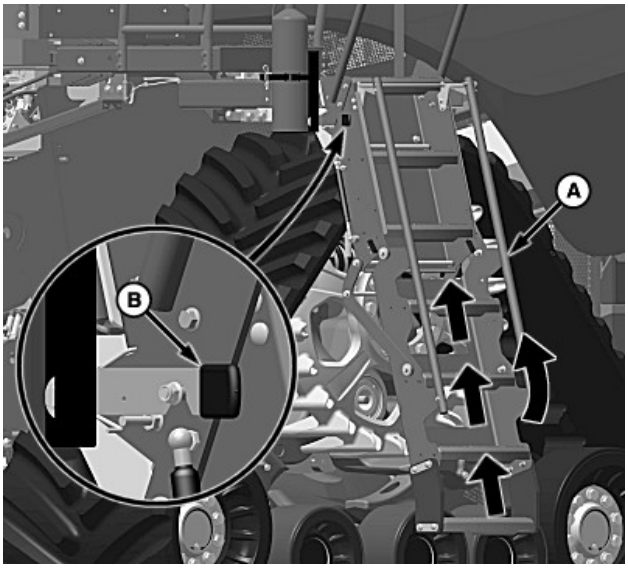
- **Position (C):** For the normal operating field conditions.
- **Position (D):** For transporting the machine on public roadways.

CAUTION: Avoid accidents. Always place ladder in the folded position (up position) and swing ladder to position (D) before transporting on public roadways to reduce machine width and to position marker/hazard light towards oncoming motorists.

OUO6075,0004A22-19-11SEP18

Cab Ladder Positions (Fold/Unfold from Ground)

Fold Ladder



H124945—UN—30AUG18

A—Handrail (2 used)
B—Locking Lever

CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

Push up on handrails (A) to raise ladder in the up position until locking lever (B) latches.

Unfold Ladder



H124946—UN—30AUG18

A—Locking Lever
B—Handrail (2 used)

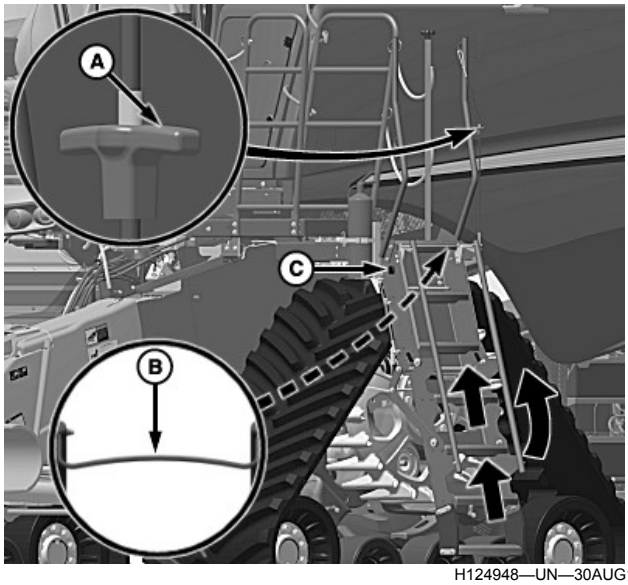
CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

Push up on locking lever (A) and pull down on handrails (B) to lower ladder in the down position.

OUO6075,0004A23-19-06SEP18

Cab Ladder Positions (Fold/Unfold from Cab Landing)

Fold Ladder



H124948—UN—30AUG18

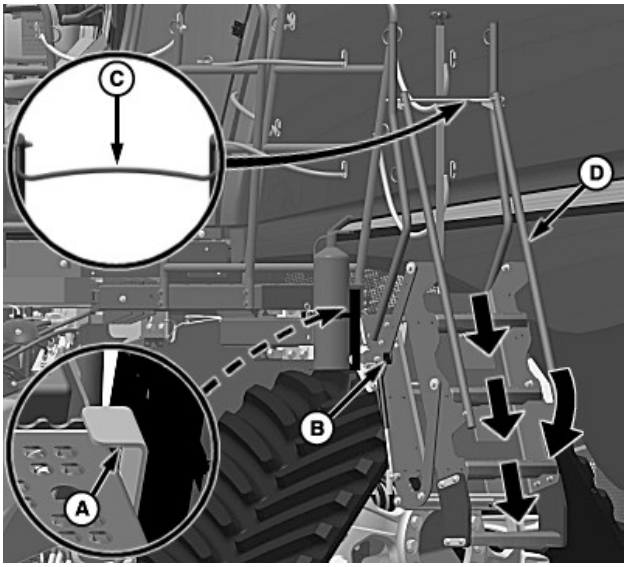
A—Handle
B—Crossbar

C—Locking Lever

CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

1. Pull up on handle (A) until crossbar (B) can be reached.
2. Continue to pull up on crossbar to raise the ladder until locking lever (C) latches and secures the ladder in the up position.

Unfold Ladder



H124947—UN—30AUG18

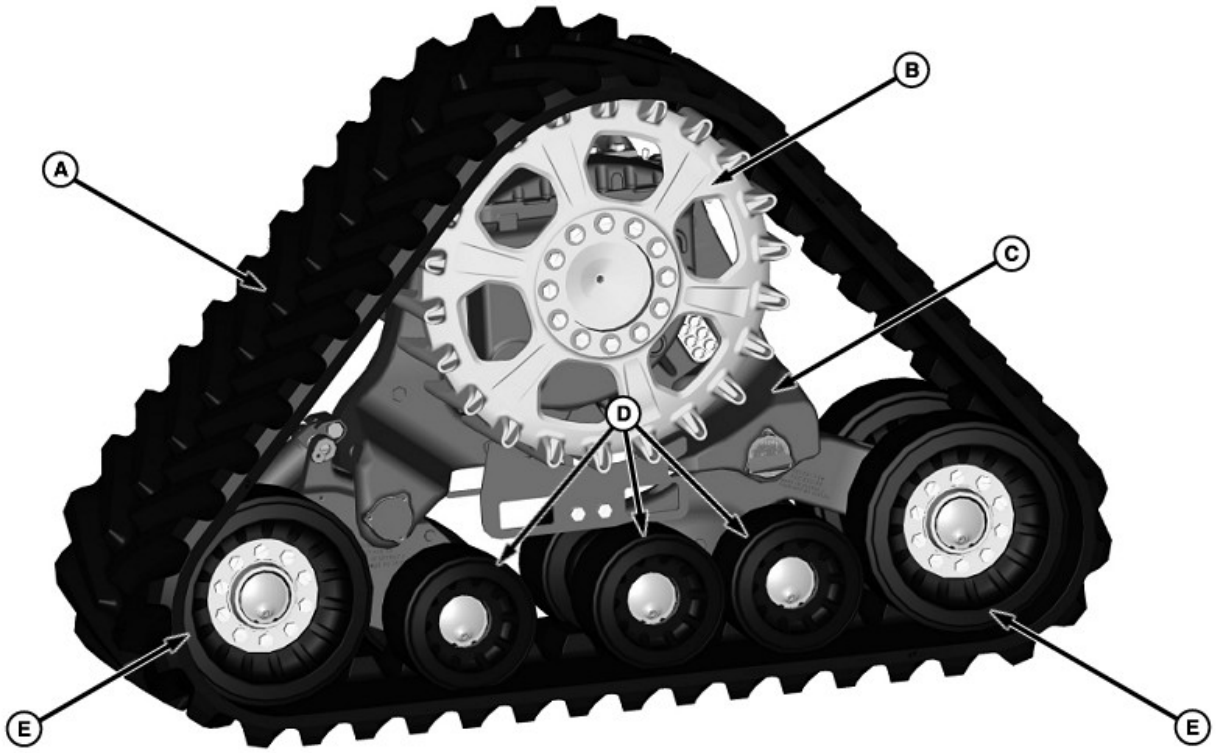
A—Pedal
B—Locking Lever
C—Crossbar
D—Ladder

CAUTION: Avoid injury to you or others. Keep hands away from moving components while folding or unfolding the ladder. Always use the handrails to fold or unfold the ladder.

1. Push down on pedal (A) to unlatch the locking lever (B).
2. Push down on crossbar (C) until it can be reached with your foot.
3. Continue to press down on the crossbar to lower the ladder (D) all the way down.

OUO6075,0004A24-19-06SEP18

Track Components

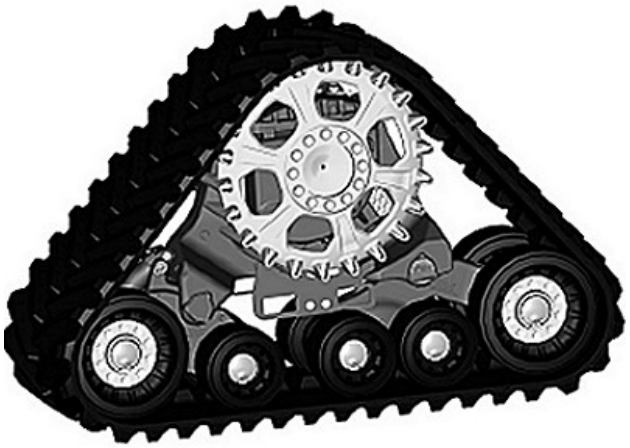


H122226—UN—10AUG17

A—Rubber Track Belt
B—Drive Wheel
C—Main Frame
D—Bogie Wheels
E—Idler Wheels

OUO6041,0000C2E-19-10AUG17

Track Features and Benefits



H122227—UN—10AUG17

Features and benefits of tracks:

- Compaction – reduces compaction
- Flotation – increased flotation in adverse conditions
- Ride Quality– rubberized idlers and bogies cushion ride
- Low Maintenance – zero grease points
- Auto Tension - efficient absorption of impacts or ingestion of debris
- Integrated Track – continuous rubber track minimizes surface damage
- Positive Drive – gently spreads torque on the rubber belt with low rolling resistance
- Speed –equal speed as tires

Tracks are installed on the left-hand and right-hand side of the front axle instead of the normal drive wheels.

Weight force is transmitted from the main frame to the idler wheels and bogie wheels.

Idler wheels and bogie wheels along with the suspension system compensate for uneven ground terrain. This results in even ground pressure over the entire track area.

OUO6041,0000C2F-19-11JAN18

Operate Track Machines

IMPORTANT: High-speed road travel increases tread wear rates and builds excessive heat, which can reduce drive lug life. See Road Transport Speeds later in this section for further information. Road travel should be avoided prior to completing the break-in period, particularly on asphalt roads. If road travel is necessary with new tracks, reduce transport speed and apply dry lubricant to drive lugs to aid in the proper belt conditioning.

NOTE: Driving a machine with tracks is the same as driving a machine with tires. Therefore, instructions on how to drive a combine is given in the Combine Operator's Manual.

There are no differences between operating machines with tracks versus machines with wheels. All controls and shift functions remain the same as a machine with wheels.

Machine behavior on paved roads is similar to behavior of the machine with wheels. On non-paved, poor roads and in field, the machine compensates for uneven ground and is not prone to bounce compared to a machine with wheels.

Refer to Combine Operator's Manual for operational information not related to tracks.

Maximizing Track Life

IMPORTANT: Avoid track and track system component damage, pre-condition tracks.

- **Pre-condition the tracks before driving machine on the road for first time. See Belt Care and Conditioning Break-In for further information.**
- **Avoid traveling at high speeds with a new set of tracks and wheels, especially during the first 100 hours.**

Debris buildup can cause fire from increased friction. Remove debris from the buildup points between track and machine frame.

Avoid operating track in grease, oil, or other petroleum chemicals. Avoid spilling these materials on track and wheels during service.

Track carcasses are designed to exceed tread wear out, so long as integrity of carcass is maintained. It is critical to keep moisture out of the steel carcass and to avoid situations where localized cable overloading could occur. Track machine owners are advised to follow these guidelines to achieve maximum track life and avoid operational problems, all of which results in lower cost per operating hour:

- **Minimize roading. Excessive road travel can increase track wear up to 15 times field wear rates**
  - Minimize transport weight during road transport.
  - Reduce maximum travel speed especially during high ambient conditions.
- **Use correct operational techniques**
  - Avoid skidding and tread bar scrubbing on hard surfaces to reduce track wear.
  - Use care when crossing ditches or transitions while making turns. Diagonal crossing of ditches causes track to become unsupported in the center and with idler hitting opposite embankment, can cause momentary loss of tension that can drop center section down and outside drive or idler wheels, making derailing a much higher risk if in a turn.
  - Do not exceed side operating slope of 10 degrees or fore/aft operating slope of 22 degrees.
- **Maintain correct track tension**
  - Under-tension causes rapid wear on tracks and inside surface of belt due to slippage and potentially cause material buildup.
  - Over-tension adds extra load and stress to undercarriage bearings, internal track cables, and track frame.
- **Keep irregular material out of tracks**

  Sharp hard material inside the track is primary reason for localized track tears and subsequent entry points for moisture into the track carcass.

OUO6041,0000C30-19-14MAY18

Road Transport Speeds

NOTE: Maximum allowed road time to maximize rubber belt/wheels life.

Without Header Attached (All Belt Widths)

Ambient Temperature		Speed				
		25	30	35	40	km/h
°C	°F	15	18	21	25	mph
0	32	>5.0				Hours
5	41					
10	50					
15	59					
20	68	>5.0			4.5	
25	77	>5.0	4.5		4.0	
30	86	4.0		3.5		
35	95	3.5		3.0		
40	104	3.0	2.5		2.0	

With Header Attached (60.9 cm (24 in) Track)

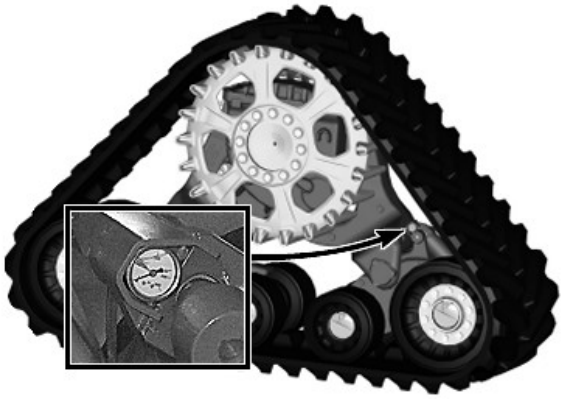
Ambient Temperature		Speed				
		25	30	35	40	km/h
°C	°F	15	18	21	25	mph
0	32	>5.0			1.5	Hours
5	41					
10	50					
15	59	>5.0	4.5		1.0	
20	68	4.5	4.0			
25	77	4.0	3.5			
30	86	3.5	3.0			
35	95	3.0	2.5			
40	104	2.5	2.0	1.5		

With Header Attached (76.2 cm (30 in) Track and 91.4 cm (36 in) Track)

Ambient Temperature		Speed				
		25	30	35	40	km/h
°C	°F	15	18	21	25	mph
0	32	>5.0			1.0	Hours
5	41	>5.0		4.5		
10	50			1.0		
15	59	>5.0	4.5			
20	68	4.5	4.0		0.5	
25	77	4.0	3.5			
30	86	3.5	3.0			
35	95	3.0	2.5			
40	104	2.5	1.5			

OUO6075,0004872-19-14JUN18

Track Tensioning System



H122229—UN—15AUG17

IMPORTANT: Check tension cylinder pressure prior to using the machine.

Nitrogen Pressure

Hydraulic cylinder has an internal nitrogen accumulator which comes pre-charged from the factory. Pressure does not need to be checked unless there is a sudden drop in hydraulic pressure with no sign of fluid loss. See your John Deere dealer for further information.

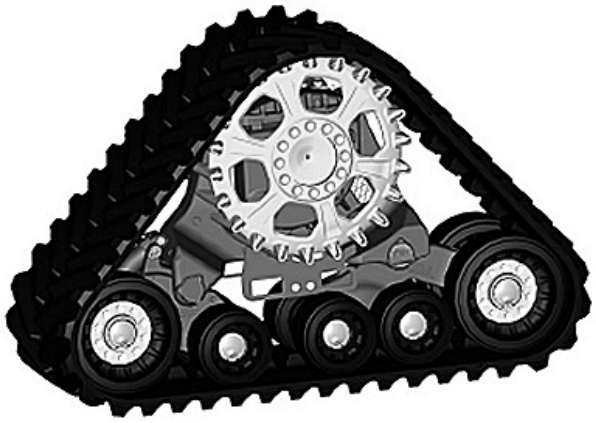
Hydraulic Pressure

Hydraulic pressure gauge is located above the front idler wheels at location shown. Gauge is used to provide a quick visual check to verify that pressure is within recommended operating range.

If pressure is outside of these ranges it must be adjusted. If pressure is too low, this indicates that there is a leak somewhere in the hydraulic system and a closer inspection must be performed. See your John Deere dealer for further information.

OUO6041,0000C31-19-10MAY18

Cleaning Tracks



H122230—UN—15AUG17

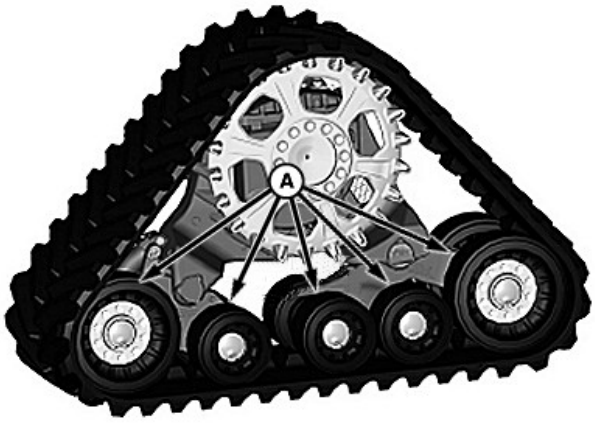
IMPORTANT: Tracks must be cleaned immediately after operation in wet and muddy conditions.

Always keep drive wheel and mainframe clear of dirt and debris.

Mainframe and wheel areas must be cleaned periodically to prevent buildup of dirt and debris. Buildup can cause premature wear on rubber track belt, bogie wheels, and idler wheels.

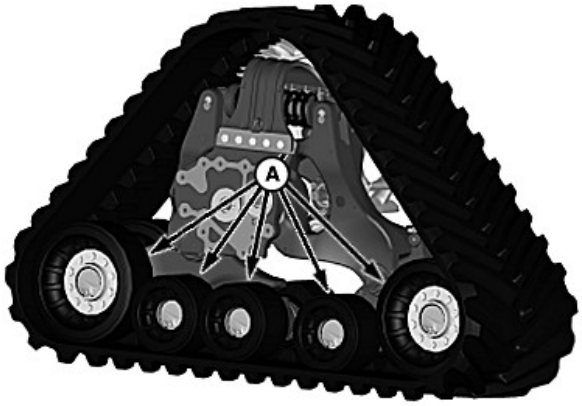
OUO6041,0000C32-19-15AUG17

Track Cleanout Areas



H122231—UN—15AUG17

Outside View



H122232—UN—15AUG17

Inside View

A—Mainframe and Wheel Areas

Mainframe and wheel areas (A) must be cleaned periodically to prevent buildup of dirt and debris. Buildup can cause premature wear on rubber track belt, bogie wheels, and idler wheels.

OUO6041,0000C33-19-16AUG17

Service Interval Chart

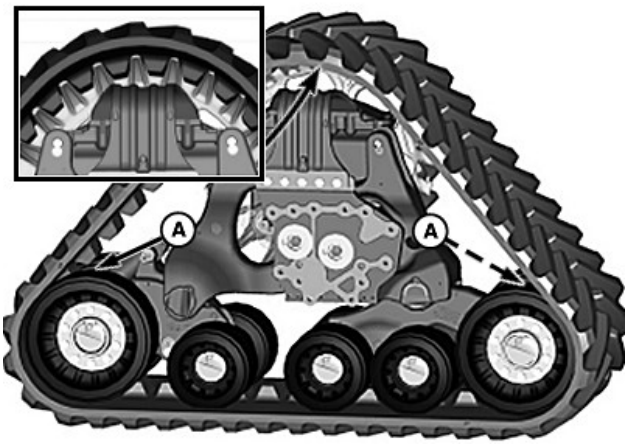
IMPORTANT: Service times are for average conditions. Service more often if machine is used in extreme conditions.

Service	First 10 Hours	Every 10 Hours	First 100 Hours	Every 400 Hours	Every 1000 Hours
Clean Dirt and Debris From Drive Wheels		•			
Clean Dirt and Debris From Mainframe		•			
Check Bogie Hubs Oil Level				•	
Check Idler Hubs Oil Level				•	
Check Pressure Settings			•	•	
Check Belt Tracking			•	•	
Check Bolt Torque	•		•	•	
Check Idler Wheel and Sprocket Bolt Torque	•		•	•	
Change Bogie Hubs Oil					•
Change Idler Hubs Oil					•
Swap Belts Left/Right [a]					•

[a] *Belt swap only required based on traction lug wear.*

OUO6075,0004A25-19-06SEP18

Belt Care and Conditioning Break-In



H122233—UN—16AUG17

A—Front and Rear Drive Wheel Areas

CAUTION: Shut OFF engine, set park brake and remove key.

NOTE: The following break-in procedure is for a modular track system after installation of a new track system, or installation of a new track belt. Prior to operating machine, dry lubricant must be applied to drive lugs of the rubber track belt to aid in the proper belt conditioning.

Pour one cup of dry lubricant to front and rear drive wheel areas (A) as shown.

Move machine forward or in reverse to spread dry lubricant over drive lug teeth.

Verify that guide/drive lugs have the dry lubricant on all surfaces.

Always expose new or clean track to dry and dusty soil conditions as soon as possible.

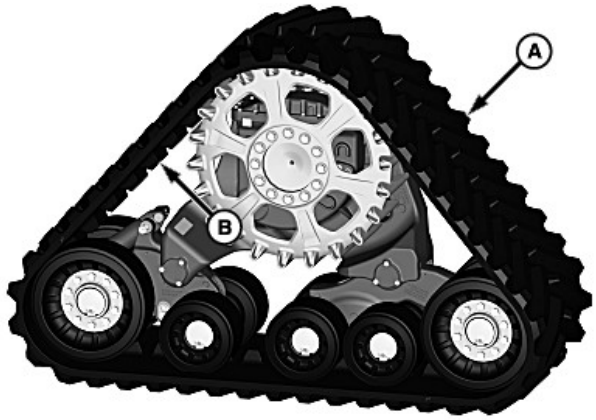
Run machine for approximately 10 hours after installation.

Check hydraulic pressure on the track tensioning system and adjust as needed.

Check track module hardware torque and retighten as needed.

OUO6041,0000C34-19-11OCT17

Track Replacement Criteria



H124521—UN—15JUN18

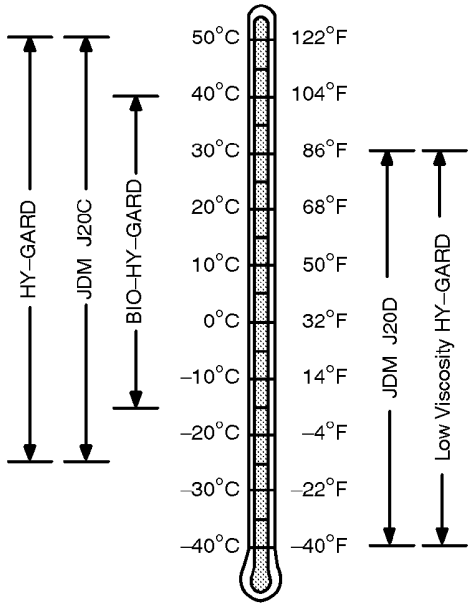
A—Tread Bar
B—Drive Lugs

To prevent damages and/or loss of performance, tracks must be replaced when one of the following criteria is reached:

- Tread bar height (A) is less than 12 mm (0.5 in) for traction tracks
- More than three tread bars are missing in a row
- More than three consecutive drive lugs (B) are missing
- Wear on drive lugs is more than 50%
- De-tracking occurs due to worn-out or missing drive lugs
- Main cables are broken on more than a third (1/3) of the width of the track
- Main cables are visible on the inside surface of the track
- Sprocket is skipping teeth due to missing/worn drive lugs

OUO6041,0000D63-19-15JUN18

Hydraulic Oil



TS1660—UN—10OCT97

Use oil viscosity based on the expected air temperature range during the period between oil changes.

The following oils are preferred:

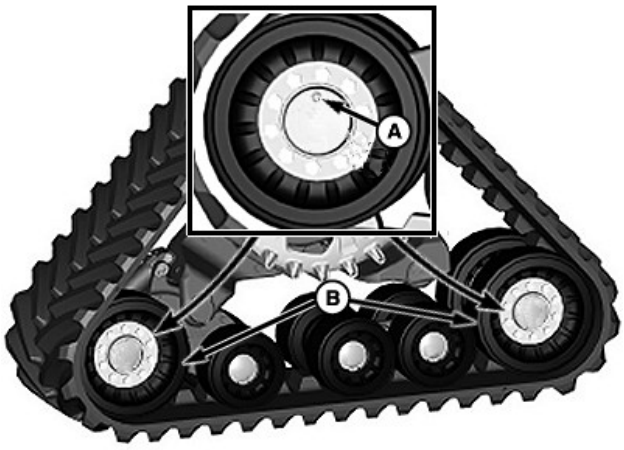
- John Deere Hy-Gard™
- John Deere Low Viscosity Hy-Gard™

Other oils may be used if they meet one of the following:

- John Deere Standard JDM J20C
- John Deere Standard JDM J20D

OUCC002,0005875-19-13JUN18

Check Oil



H122663—UN—25OCT17

A—Drain Plug (2 used)
B—Idler Hub (2 used)

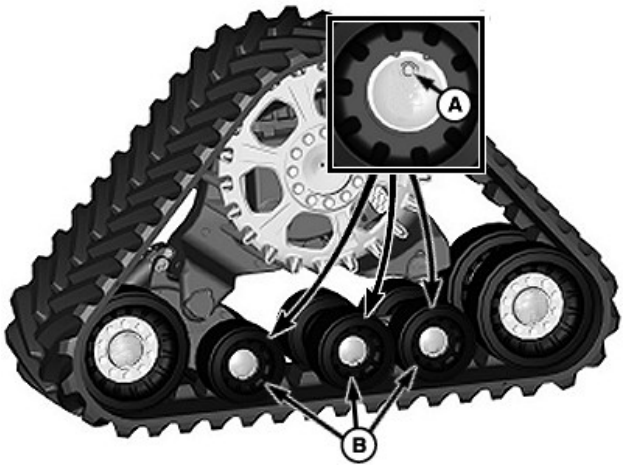
CAUTION: Avoid burn injury. Wear protective gloves or allow components time to cool. Bogie wheels, idler wheels, and rubber track belt normally operate at high temperatures and can be hot to touch.

NOTE: Check oil ONLY on the outer idler hub since the oil sump is common between the outer and inner idler hubs.

Clean area around drain plugs before removing.

Catch any oil in a clean container.

1. Drive the machine forward or backward so the drain plug (A) on the outer idler hub (B) is at the top.
2. Remove drain plug and verify that the oil level is at the bottom of the hole opening. Add oil as required.
3. Install drain plug.
4. Repeat steps for the other idler hubs.



H122664—UN—25OCT17

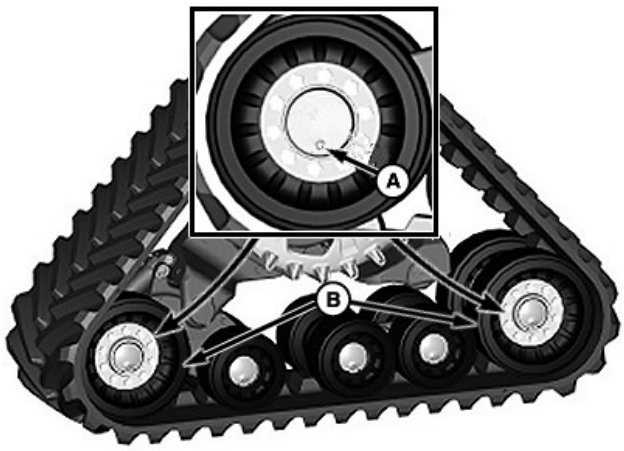
A—Drain Plug (3 used)
B—Bogie Hub (3 used)

NOTE: Check oil ONLY on the outer bogie hub since the oil sump is common between the outer and inner bogie hubs.

5. Drive the machine forward or backward so the drain plug (A) on the outer bogie hub (B) is at the top.
6. Remove drain plug and verify that the oil level is at the bottom of the hole opening. Add oil as required.
7. Install drain plug.
8. Repeat steps for the other bogie hubs.

OUO6041,0000C7B-19-18APR18

Change Oil



H122234—UN—24OCT17

A—Drain Plug (2 used)
B—Idler Hub (2 used)

CAUTION: Avoid burn injury. Wear protective gloves or allow components time to cool. Bogie wheels, idler wheels, and rubber track belt normally operate at high temperatures and can be hot to touch.

NOTE: Change oil ONLY on the outer idler hubs since the oil sump is common between the outer and inner idler hubs.

Clean area around the drain plugs before removing.

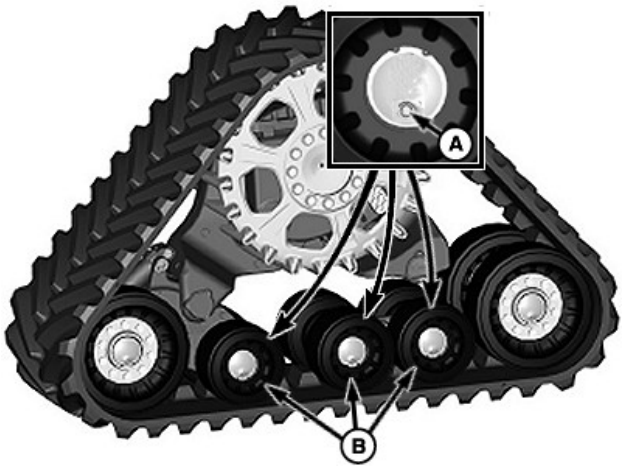
Catch any oil in a clean container.

1. Drive the machine forward or backward so the drain plug (A) on the outer idler hub (B) is at the bottom.
2. Remove drain plug and drain oil.
3. Drive the machine forward or backward so the idler drain plug (A) is at the top.
4. Fill to specification using Hy-Gard™ oil.

Specification	
Idler Hub—Capacity	1300 mL (44 oz)

5. Install drain plug.
6. Repeat steps for the other idler hub.

Hy-Gard is a trademark of Deere & Company



H122253—UN—24OCT17

A—Drain Plug (3 used)
B—Bogie Hub (3 used)

NOTE: Change oil ONLY on the outer bogie hubs since the oil sump is common between the outer and inner bogie hubs.

7. Drive the machine forward or backward so the drain plug (A) on the outer bogie hub (B) is at the bottom.
8. Remove drain plug and drain oil.
9. Drive the machine forward or backward so the bogie drain plug (A) is at the top.
10. Fill to specification using Hy-Gard™ oil.

Specification	
Bogie Hubs—Capacity	1300 mL (44 oz)

11. Install drain plug.
12. Repeat steps for the other bogie hubs.

OUO6041,0000C35-19-11JUL18

Specifications

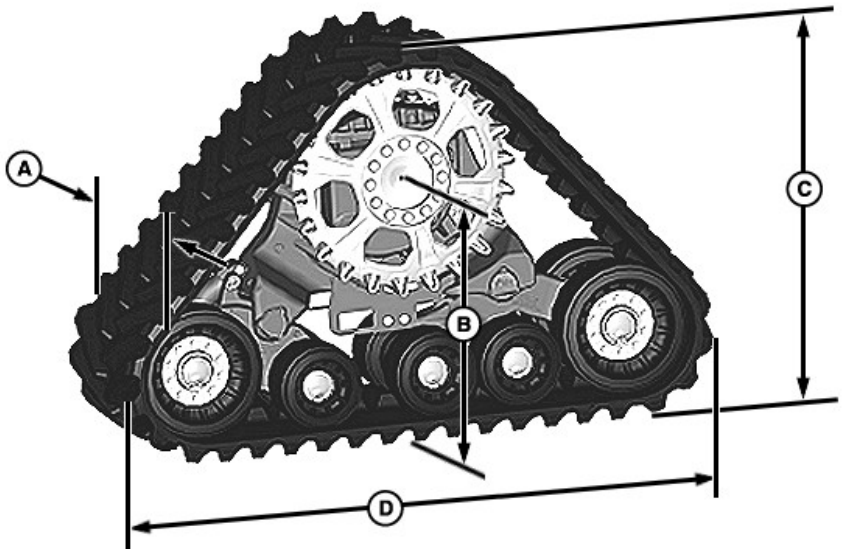
Track Specifications		
Load Capacity	22 650 kg (49 935 lb)	
Weight	60.9 cm (24 in)	2710 kg (5975 lb)
	76.2 cm (30 in)	2840 kg (6262 lb)
	91.4 cm (36 in)	3000 kg (6615 lb)
Rolling Circumference	6032 mm (238 in)	

Capacities	
Idler Hubs	1300 mL (44 oz)
Bogie Hubs	1300 mL (44 oz)
Oil Type	Hy-Gard™ Oils meeting John Deere Standard JDM J20C

Hy-Gard is a trademark of Deere & Company

OUO6041,0000CF7-19-05DEC17

Track Module Dimensions



H122256—UN—19OCT17

Legend	Dimension
A	60.9 cm (24 in) 76.2 cm (30 in) 91.4 cm (36 in)
B	1165 mm (46 in)
C	18 111 mm (71 in)
D	2767 mm (109 in)

OUO6041,0000CF8-19-05DEC17

Combine Dimensions

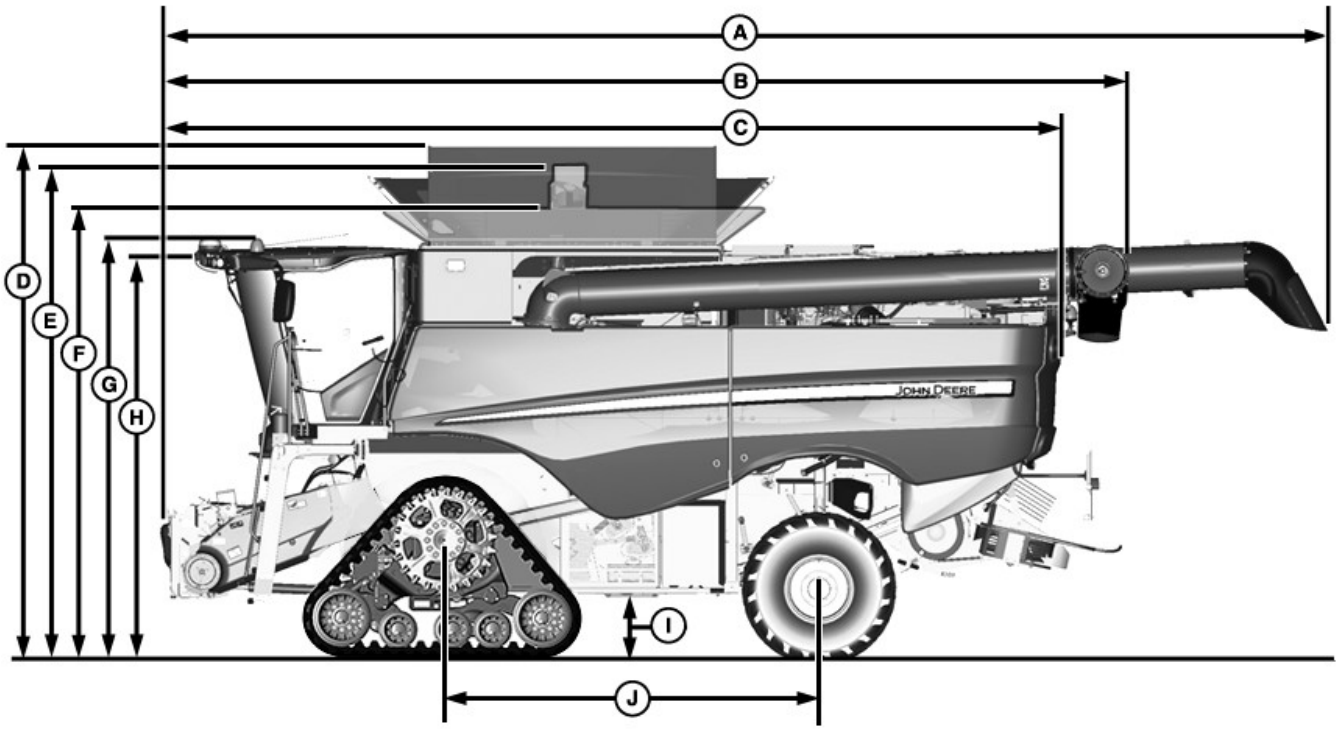
NOTE: Dimensions are approximate and subject to change without notice.

Legend	Dimension
A	11.00 m (36 ft 1 in) with 6.9 m (22 ft 5 in) Unloading Auger 12.00 m (39 ft 3 in) with 7.9 m (26 ft 0 in) Unloading Auger 12.45 m (40 ft 8 in) with 8.7 m (28 ft 5 in) Unloading Auger
B	9.11 m (29 ft 9 in) with 6.9 m (22 ft 5 in) Power Fold Auger 9.92 m (32 ft 5 in) with 7.9 m (26 ft 0 in) Power Fold Auger
C	8.51 m (27 ft 9 in)
D	4.87 m (15 ft 9 in) with 10 572 L (300 bu) Covers 4.87 m (15 ft 9 in) with 14 096 L (400 bu) Covers
E	4.58 m (15 ft 1 in) with Clean Grain Loading Auger (300 bu) 4.72 m (15 ft 5 in) with Clean Grain Loading Auger (400 bu)
F	4.26 m (13 ft 10 in) with 10 572 L (300 bu) Extensions 4.53 m (14 ft 9 in) with 14 096 L (400 bu) Extensions
G	3.93 m (12 ft 9 in)
H	3.88 m (12 ft 7 in)
I	0.59 m (1 ft 9 in)
J	3.60 m (11 ft 8 in)
K	7.66 m (25 ft 1 in) with 6.9 m (22 ft 5 in) Unloading Auger 8.98 m (29 ft 5 in) with 7.9 m (26 ft 0 in)) Unloading Auger 9.42 m (30 ft 9 in) with 8.7 m (28 ft 5 in) Unloading Auger
L	5.16 m (16 ft 9 in) with 6.9 m (22 ft 5 in) Unloading Auger 5.42 m (17 ft 8 in) with 7.9 m (26 ft 0 in) Unloading Auger 5.53 m (18 ft 2 in) with 8.7 m (28 ft 5 in) Unloading Auger
M	4.46 m (14 ft 6 in) with 6.9 m (22 ft 5 in) Unloading Auger 4.55 (14 ft 9 in) with 7.9 m (26 ft 0 in) Unloading Auger 4.66 m (15 ft 3 in) with 8.7 m (28 ft 5 in) Unloading Auger
N [a]	4.52 m (14 ft 8 in) with 6.9 m (22 ft 5 in) Unloading Auger 4.84 m (15 ft 9 in) with 7.9 m (26 ft 0 in) Unloading Auger 4.95 m (16 ft 3 in) with 8.7 m (28 ft 5 in) Unloading Auger
O [b]	3.70—4.14 m (12 ft 1 in—13 ft 6 in) Rear Tires
P [b]	3.46 m (11 ft 4 in) without Axle Extensions 60.9 cm (24 in) Tracks 3.59 m (11 ft 7 in) with 65 mm (2-1/2 in) Axle Extensions 60.9 cm (24 in) Tracks 3.75 m (12 ft 3 in) with 65 mm (2-1/2 in) Axle Extensions 76.2 cm (30 in) Tracks 4.40 m (14 ft 4 in) with 394 mm (15-1/2 in) Axle Extensions 76.2 cm (30 in) Tracks 4.54 m (14 ft 9 in) with 394 mm (15-1/2 in) Axle Extensions 91.4 cm (36 in) Tracks

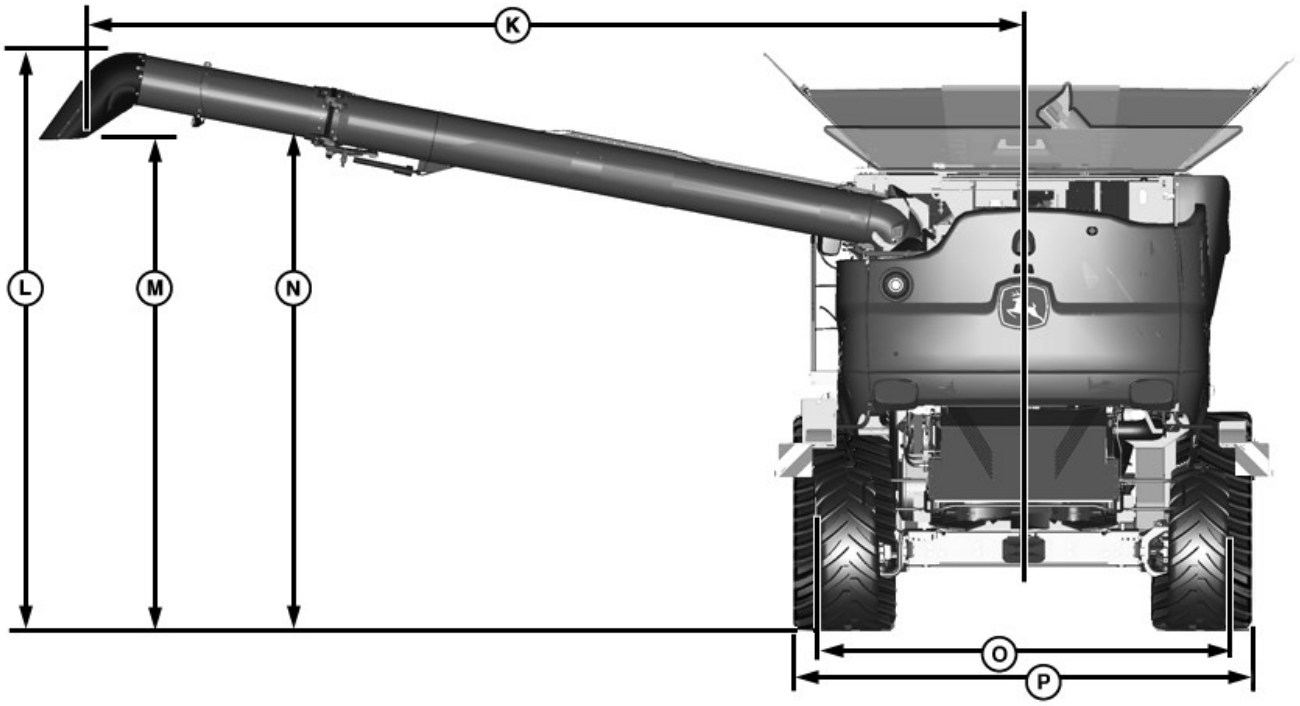
[a] Dimension is measured 1.22 m (4 ft) from the grain spill point. This represents the unloading auger when centered over the grain cart.
[b] Due to the different tire configurations, row spacings, axle configurations, wheel offsets, axle positions, and spindles types, machine widths will vary. Measurements given in chart are for minimum and maximum widths. For more detailed width information, see your John Deere dealer.

OUO6041,0000CF9-19-13JUN18

Dimension Reference Points



H122741—UN—14NOV17



H122742—UN—14NOV17

OUO6041,0000CF5-19-13JUN18

EC Declaration Of Incorporation Of Partly Completed Machinery

EC DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

DIRECTIVE 2006/42/EC, Appendix 2, Part B

Manufacturer:
Soucy International Inc.
5450 rue St-Roch
Drummondville (Quebec) J2B 6W3
CANADA

Technical Contact:
Geneviève Desautels
No: 3 Ibrahim Latif Caddesi
Tepebasi, Girne
TRNC - CYPRUS

Declaration:

Soucy International Inc. hereby certifies that its agricultural track system GTS fulfill all the relevant provisions of the Machinery Directive 2006/42/EC as a partly completed machinery. The system may not be put into service before machinery in which it will be incorporated is declared to comply to the machinery directive 2006/42/EC, Appendix 2, part A.

Signed at Drummondville, July 21, 2017

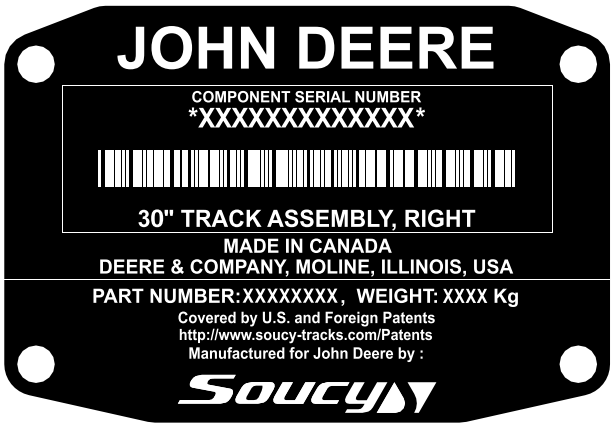
Julie Tremblay

Julie Tremblay

H122667—UN—26OCT17

Engineering Manager, Agricultural

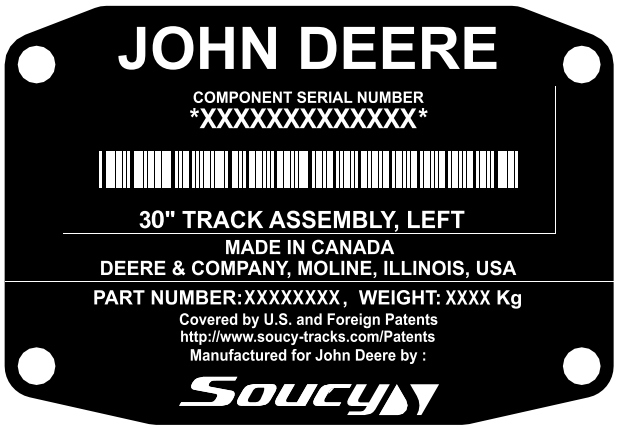
OUO6075,00047AB-19-13JUN18



H122615—UN—14NOV17

Sample Identification Plate (Right-Hand Track)

Track Identification Plates



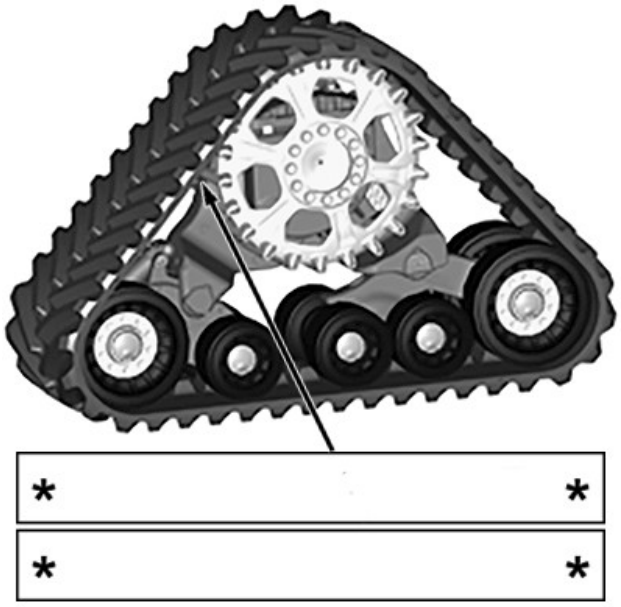
H122614—UN—14NOV17

Sample Identification Plate (Left-Hand Track)

NOTE: 76.2 cm (30 in) track serial number plate shown. 60.9 cm (24 in) and 91.4 cm (36 in) track serial number plates are similar.

OUO6041,0000CFA-19-05DEC17

Identification Plate Location



H122290—UN—06SEP17

Located on inside of each track module.

OUO6041,0000C3C-19-25AUG17

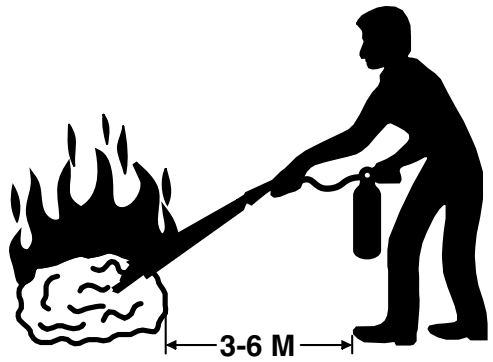
Fire Prevention

Recommended Fire Preventions

The machine must be inspected periodically throughout the harvest day. Buildup of crop material and other debris must be removed to ensure proper machine function and to reduce the risk of fire.

Regular and thorough cleaning of machine combined with other routine maintenance procedures listed in the Operator's Manual greatly reduces the risk of fire, chance of costly downtime, and improve machine performance.

Always follow all safety procedures posted on the machine and in the Operator's Manual. Before carrying out any inspection or cleaning, always shut OFF engine, set park brake, and remove key.



H90363—UN—05DEC07

Your machine is equipped with general-purpose powder fire extinguisher and a pressurized liquid fire extinguisher. Extinguishers must be checked daily when entering or exiting the cab and when working around machine to ensure that they are in working condition. Fire extinguishers must be replaced or professionally serviced after any usage.

Fire Extinguisher Recommendations:

IMPORTANT: Read label on extinguishers and become familiar with instructions and restrictions to use them.

General-Purpose Powder Fire Extinguisher:

- Use extinguisher for grease, oil, electrical, and chemical fires.

Pressurized Liquid Fire Extinguisher:

- Use extinguisher on crop material buildup or crop debris fires.

Use of a Fire Extinguisher:

The diagram shows the recommended method to extinguish a fire. Always aim towards base of fire.

The following are basic steps for the use of a fire extinguisher:

1. Remove fire extinguisher from bracket and carry to area of fire.

Your machine is equipped with a general-purpose powder fire extinguisher and a pressurized liquid fire extinguisher. Extinguishers must be checked daily when entering or exiting the cab and when working around machine to ensure that they are in working condition. Fire extinguishers must be replaced or professionally serviced after any usage.

For further information, refer to Machine Cleanout section.

OUO6075,00042AA-19-15JUN16

Fire Extinguisher Operation

2. Approach area of fire with wind to your back.
3. Pull safety pin from top of extinguisher.
4. Hold extinguisher upright by handles and aim hose at **base** of flames.
5. Squeeze handles to discharge fire extinguisher.
6. Move nozzle back and forth, covering flames with a cloud of powder.

Inspection Checklist:

At least once per month, inspect fire extinguishers and ensure the following:

1. Are fire extinguishers positioned in designated location on cab ladder landing and at rear of machine?
2. Are there any obstructions to proper access or visibility?
3. Are operating instructions on nameplate legible and facing outward?
4. Are safety seals broken or missing?
5. Is extinguisher full? (Determines by weighing or "hefting")
6. Is there any physical damage, corrosion, leakage, or a clogged nozzle?

When inspection of fire extinguisher reveals a deficiency, extinguisher must be serviced or replaced.

OUO6075,00042AB-19-28JUN16

Charge Liquid Fire Extinguisher (Europe, Australia, and New Zealand) (If Required)



H117901—UN—28MAR16

NOTE: Liquid fire extinguisher may be shipped uncharged. Prior to delivery of machine the liquid fire extinguisher must be charged.

When an antifreeze charge is used to freeze protect extinguisher, a complete discharge and maintenance is required.

Fire extinguisher shown may vary depending on country requirements and fire extinguisher manufacturers.

CAUTION: Before attempting to recharge, ensure that extinguisher is completely depressurized.

1. Refer to information provided with the fire extinguisher to properly fill and charge.
2. Install fire extinguisher on the machine.

OUO6075,0004A04-19-28JUN18

Handle Fuel Safely—Avoid Fires



TS202—UN—23AUG88

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.

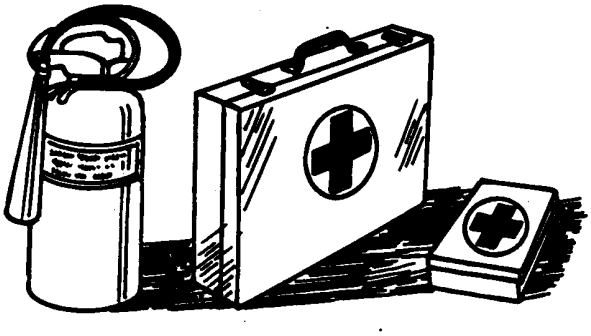
Use only an approved fuel container for transporting flammable liquids.

Never fill fuel container in pickup truck with plastic bed liner. Always place fuel container on ground before refueling. Touch fuel container with fuel dispenser nozzle before removing can lid. Keep fuel dispenser nozzle in contact with fuel container inlet when filling.

Do not store fuel container where there is an open flame, spark, or pilot light such as within a water heater or other appliance.

DX,FIRE1-19-12OCT11

Prepare for Emergencies



TS291—UN—15APR13

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.

DX,FIRE2-19-03MAR93

Handle Starting Fluid Safely



TS1356—UN—18MAR92

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container, and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.

Do not use starting fluid on an engine equipped with glow plugs or an air intake heater.

DX,FIRE3-19-14MAR14

Remove Accumulated Crop Debris



TS227—UN—15APR13

The build up of chaff and crop debris in the engine compartment, on the engine, and near moving parts is a fire hazard. Check and clean these areas frequently. Before performing any inspection or service, shut off the engine, set the parking brake and remove the key.

HX,9010SA,B-19-23AUG97

Fire Extinguisher (Europe)



H92841—UN—16SEP08

General-Purpose Powder / Liquid Fire Extinguisher

CAUTION: Fire extinguishers must meet local government laws and regulations:

- **A general-purpose powder fire extinguisher that is at least 6 kg (13 lb)**
- **A pressurized liquid fire extinguisher (if equipped) with minimum volume of 8 L (2.1 gal)**

NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose powder fire extinguisher and a pressurized liquid fire extinguisher with mounting brackets are installed on your machine.

Read label on extinguishers and become familiar with instructions on how to use and maintain them. Once extinguisher is discharged, no matter for how long, it must be recharged or replaced.

IMPORTANT: Pressurized liquid fire extinguisher must not be exposed to freezing temperatures unless protected with antifreeze. See instructions decal on extinguisher for further information.

OUO6075,00042F6-19-20JUN16

Fire Extinguishers (Australia and New Zealand)



H117754—UN—17MAR16

General-Purpose Powder / Liquid Fire Extinguisher

CAUTION: Fire extinguishers must meet local government laws and regulations:

- **A general-purpose powder fire extinguisher that is at least 4 kg (10 lb)**
- **A pressurized liquid fire extinguisher with minimum volume of 8 L (2.1 gal)**

NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose powder fire extinguisher and a pressurized liquid fire extinguisher with mounting brackets are installed on your machine.

Read label on extinguishers and become familiar with instructions on how to use and maintain them. Once extinguisher is discharged, no matter for how long, it must be recharged or replaced.

IMPORTANT: Pressurized liquid fire extinguisher must not be exposed to freezing temperatures unless protected with antifreeze. See instructions decal on extinguisher for further information.

OUO6075,00042F7-19-20JUN16

Fire Extinguishers (Eurasian Economic Union)



H117754—UN—17MAR16

General-Purpose Powder / Liquid-Foam Combination Fire Extinguisher

CAUTION: Fire extinguishers must meet local government laws and regulations:

- **A general-purpose powder fire extinguisher that is at least 6 kg (13 lb)**
- **A pressurized liquid-foam combination fire extinguisher with minimum volume of 8 L (2.1 gal)**

NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose powder fire extinguisher and a pressurized liquid-foam combination fire extinguisher with mounting brackets are installed on your machine.

Read label on extinguishers and become familiar with instructions on how to use and maintain them. Once extinguisher is discharged, no matter for how long, it must be recharged or replaced.

IMPORTANT: Pressurized liquid-foam combination fire extinguisher must not be exposed to freezing temperatures. See instructions decal on extinguisher for further information.

OUO6075,00049FE-19-28JUN18

Fire Extinguisher Locations



H123653—UN—02MAR18

Front Fire Extinguisher Location



H123654—UN—02MAR18

Rear Fire Extinguisher Location

NOTE: Fire extinguishers shown may vary depending on country requirements and fire extinguisher manufacturers.

A general-purpose fire extinguisher is on the front ladder platform.

A pressurized liquid fire extinguisher (if equipped) is on the inside of the right-hand rear engine access door.

OUO6075,0004911-19-02MAR18

In Case of Fire



TS227—UN—15APR13

CAUTION: Avoid personal injury.

Stop machine immediately at the first sign of fire. Fire may be identified by the smell of smoke or sight of flames. Because fire grows and spreads rapidly, get off the machine immediately and move safely away from the fire. Do not return to the machine! The number one priority is safety.

Call the fire department. A portable fire extinguisher can put out a small fire or contain it until the fire department arrives; but portable extinguishers have limitations. Always put the safety of the operator and bystanders first. If attempting to extinguish a fire, keep your back to the wind with an unobstructed escape path so you can move away quickly if the fire cannot be extinguished.

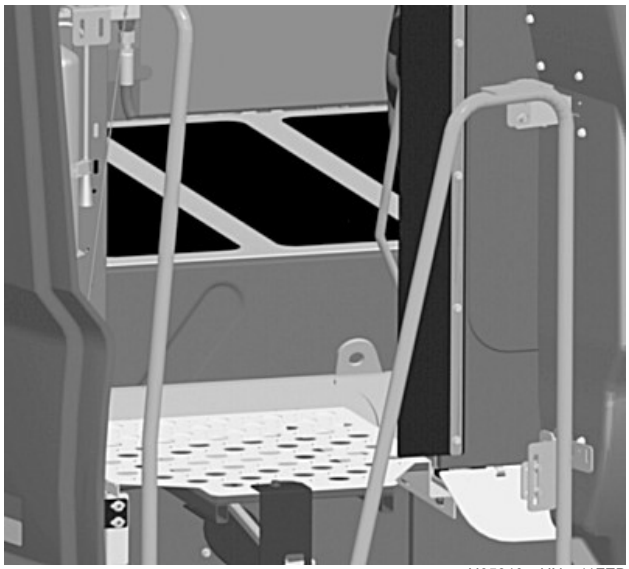
Read the fire extinguisher instructions and become familiar with their location, parts, and operation before a fire starts. Local fire departments or fire equipment distributors may offer fire extinguisher training and recommendations.

If your extinguisher does not have instructions, follow these general guidelines:

1. Pull the pin. Hold the extinguisher with the nozzle pointing away from you, and release the locking mechanism.
2. Aim low. Point the extinguisher at the base of the fire.
3. Squeeze the lever slowly and evenly.
4. Sweep the nozzle from side-to-side.

DX,FIRE4-19-22AUG13

Cleaning Engine Compartment



H95319—UN—11FEB10

CAUTION: Do not clean engine or engine compartment with engine running. Dirt, oil, chaff, and crop debris in engine compartment and on engine is a fire hazard. Direction of wind, type of crop and its moisture content can all have an effect on where and how much chaff and debris accumulate. Check and clean this area frequently.

OUO6075,0000575-19-17MAR10

Machine Cleanout

General Cleaning Guidelines

Machine must be inspected periodically throughout the harvest day. Buildup of crop material and other debris must be removed to ensure proper machine function and to reduce the risk of fire. Frequency of inspections and cleanings will vary depending on a number of factors, including operating conditions, machine settings, crop conditions, operating speeds, and weather conditions. Inspections and cleanings may be required multiple times throughout the harvest day, particularly in dry, hot, and windy conditions.

IMPORTANT: Regular and thorough cleaning of machine combined with other routine maintenance procedures listed in the Operator's Manual greatly reduce the risk of fire, chance of costly downtime, and improve machine performance.

Crop material and other debris can accumulate in various areas. Direction of wind, type of crop, and crop moisture content can all impact where and how much crop material and debris can accumulate. Be aware of harvest conditions and adjust your cleaning schedule to ensure proper machine function and to reduce the risk of fire. Inspect and clean these areas as needed throughout the harvest day.

Harvesting certain crops can cause special issues. Some crops are very "sticky" and it is often more difficult to clean the machine when harvesting these crops. Examples of these crops include sunflower, canola, and safflower. Take special care in cleaning the machine when harvesting these crops.

Always follow all safety procedures posted on the machine and in the Operator's Manual. Before carrying out any inspection or cleaning, always shut OFF engine, set parking brake and remove key.

OUO6075,0001167-19-21JUN12

Cleaning Out Machine (Periodic Cleanout)

The photographs in this section show areas of the machine that require regular inspection and cleaning. While there are other areas that require regular cleaning, frequent attention to these areas provides the greatest impact on fire prevention.

Some of these photographs show accumulations of crop material and other debris prior to cleaning. This type of accumulation is not normal; it was allowed for illustrative purposes only.

IMPORTANT: These areas may require more frequent cleaning, even multiple times per day, depending on harvest conditions. Be aware of harvest conditions and adjust your cleaning schedule to ensure proper machine function and to reduce the risk of fire.

Other areas not covered in this section may also collect crop debris and MUST be cleaned periodically for machine function and appearance. Thoroughly inspect the entire machine on a regular basis throughout the harvest season.

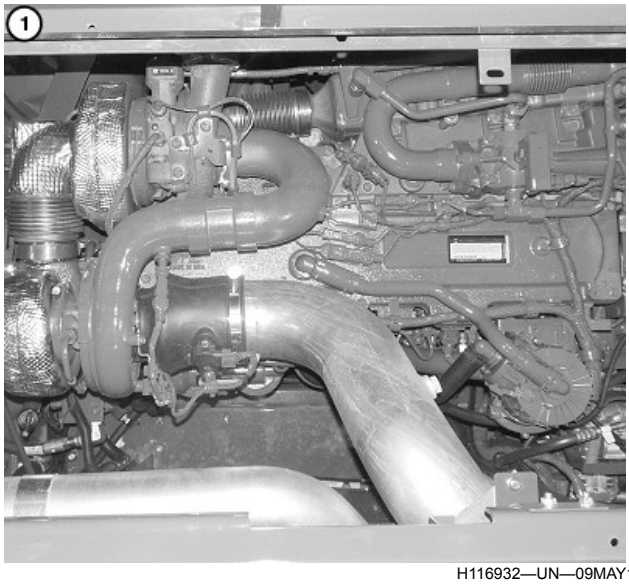
Always follow all safety procedures posted on the machine and in the Operator's Manual. Before carrying out any inspection or cleaning, always shut OFF engine, set park brake and remove key.

Thoroughly clean machine from top to bottom with compressed air. First clean all areas accessible from the engine deck. Start with engine compartment and work outwards and counterclockwise to other areas around engine compartment, floor underneath engine, top rear of rotor and rear deck, including areas around Exhaust Aftertreatment Enclosure (if equipped). Once top areas of machine are clean, proceed to cleaning areas accessible from the ground level.

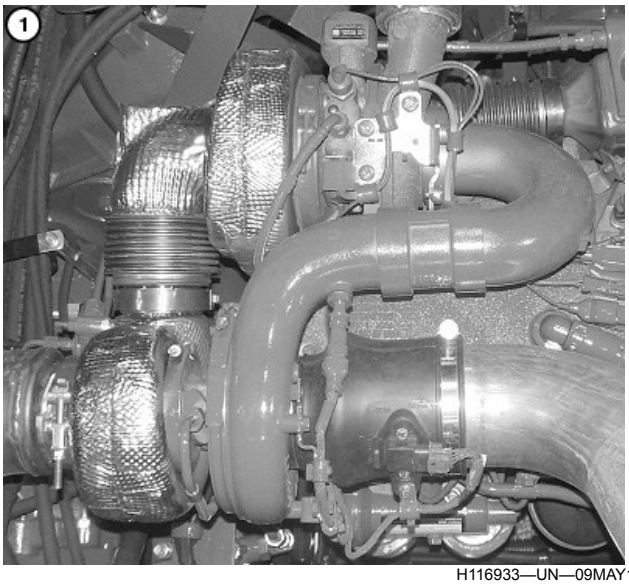
From the ground level, clean rear underside of fuel tank area and top of the rear tailboard of the residue disposal system. Exhaust Aftertreatment Enclosure area (if equipped) will also need to be cleaned from the ground level. Once the cleaning from the ground level is finished, recheck engine compartment for any crop debris that could have blown in from the ground level cleaning.

NOTE: Some shields were removed for photo clarity.

Engine Compartment (Top Areas)



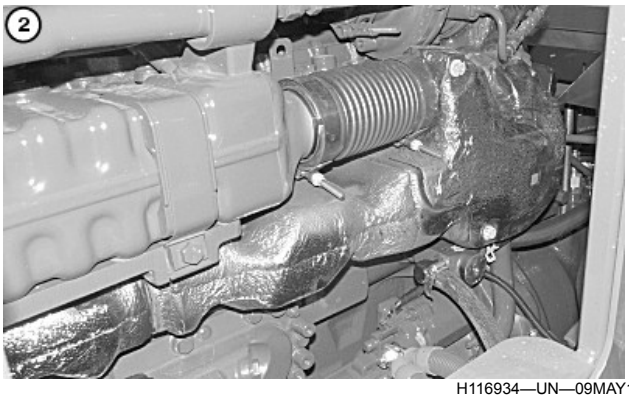
H116932—UN—09MAY16



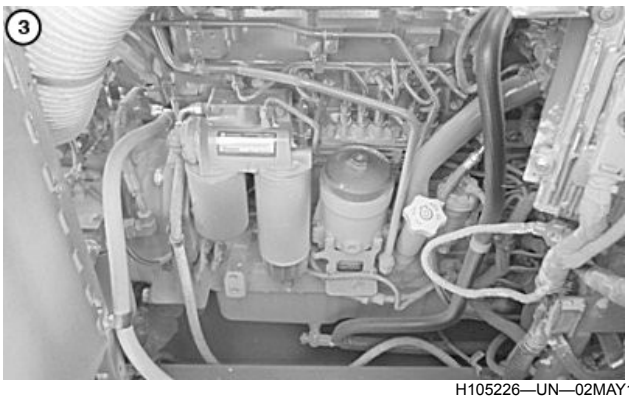
H116933—UN—09MAY16

(1) — Top Area of Engine and Turbochargers

Engine Compartment (Top Areas)



H116934—UN—09MAY16



H105226—UN—02MAY12

(2) — Exhaust Manifold and Manifold Shield, Turbo Interstage Tube, Exhaust Gas Recirculation (EGR) Cooler Tube

(3) — Around Engine

Engine Compartment (Top Areas)



H108963—UN—29AUG13



H108986—UN—29AUG13

(4) — Underneath Engine

(5) — Top Rear of Rotor and Areas Around Rotor Drive

Engine Compartment (Top Areas)



H108987—UN—29AUG13

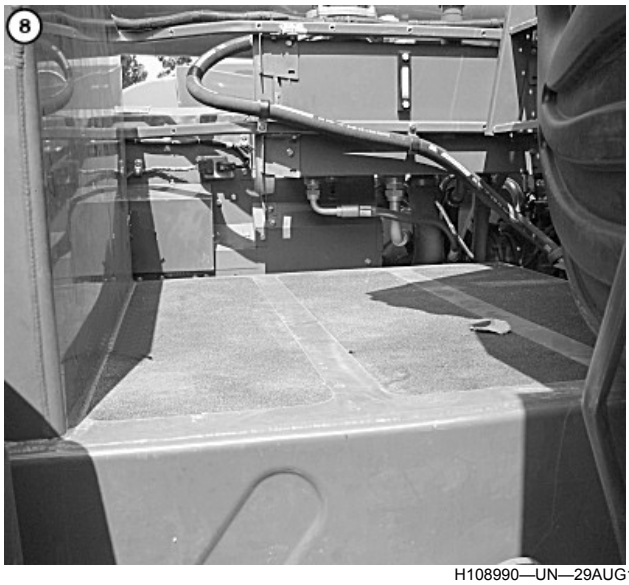


H108988—UN—29AUG13

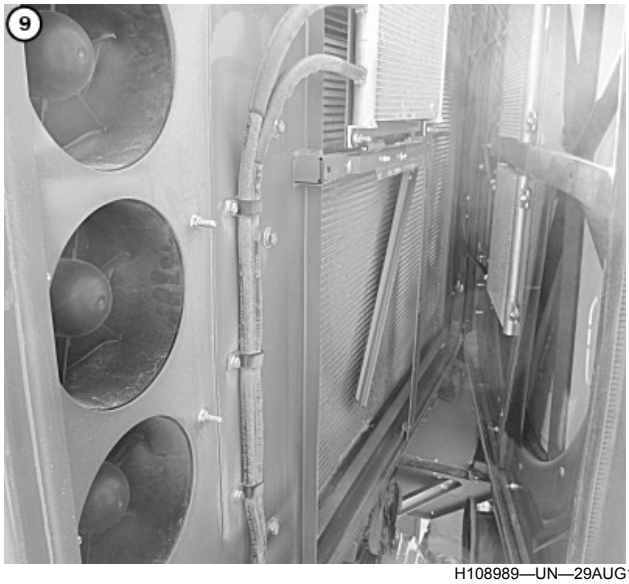
(6) — Main Engine Gear Case

(7) — Areas around and under Exhaust Aftertreatment Enclosure (If Equipped)

Engine Compartment (Top Areas)



H108990—UN—29AUG13



H108989—UN—29AUG13

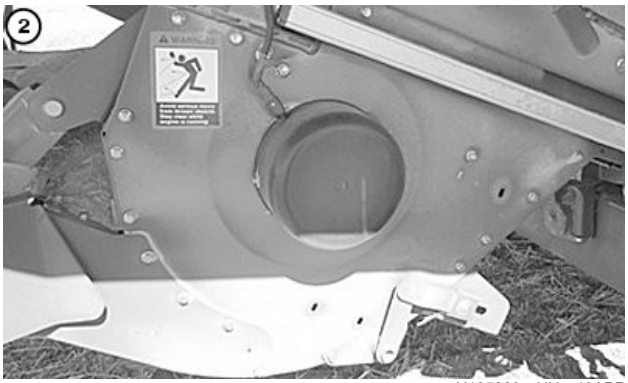
(8) — On Top of Fuel Tank

(9) — Engine Cooling Package

Ground Accessible (Bottom Areas)



H100574—UN—20JUN11



H105229—UN—19APR12

(1) — Underneath Fuel Tank

(2) — Areas Around Bearings and Bearing Guards (Various locations)

Ground Accessible (Bottom Areas)



H108991—UN—29AUG13

Fuse Center (Style A)



H105230—UN—02MAY12

IMPORTANT: Lubrication decals show the different locations of grease points around the machine. Follow lubrication times provided on decals and refer to hour intervals listed in Lubrication and Maintenance section for further information.

Bearing failures or overheating can result in a fire. To reduce bearing failures or overheating, always refer to lubrication decals on machine.

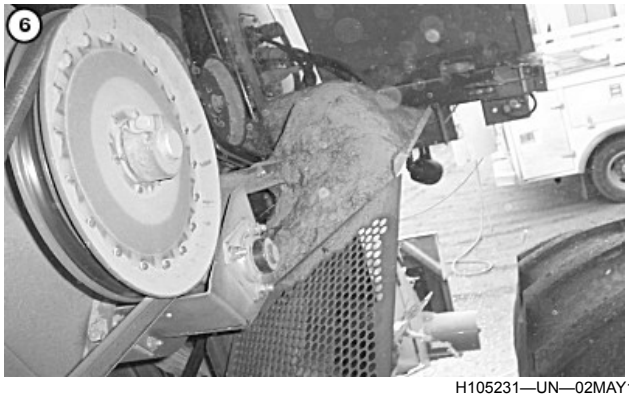
(3) — Fuse Center and Battery Box Areas

(4) — Clean Grain Elevator Drives

Ground Accessible (Bottom Areas)



H105336—UN—02MAY12



H105231—UN—02MAY12

(5) — Right Side Walk Area

(6) — Right Side Mud Shields

Ground Accessible (Bottom Areas)



H105337—UN—02MAY12



H105338—UN—02MAY12

(7) — Right Side Feeder House Shields

(8) — Left Side Feeder House Shields

Ground Accessible (Bottom Areas)



H105232—UN—02MAY12



H105339—UN—02MAY12

(9) — Transmission

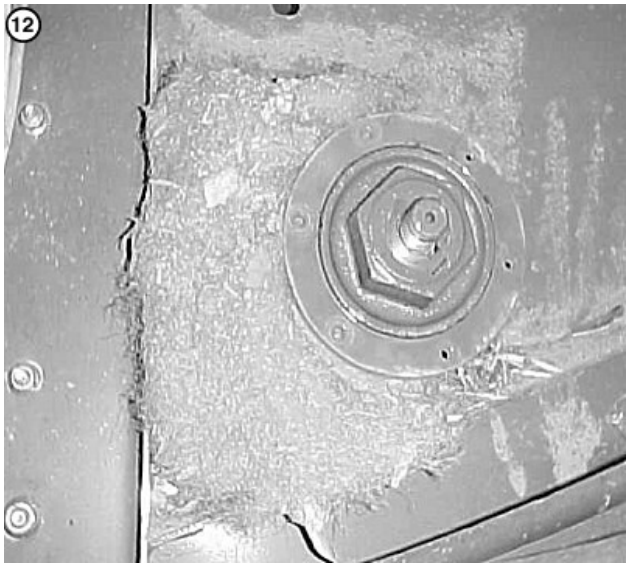
(10) — Left Side Walk Area

Ground Accessible (Bottom Areas)



H114749—UN—18JUN15

Fuse Center (Style B)



H105341—UN—02MAY12

(11) — Fuse Center and Battery Box Areas

(12) — Discharge Beater Drives

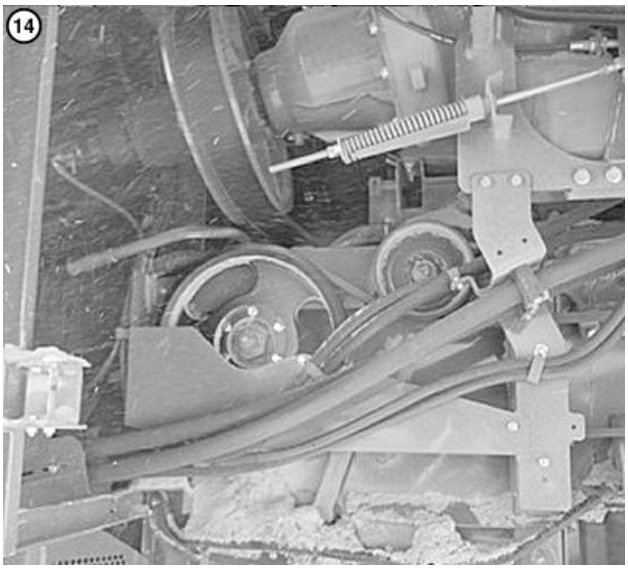
Ground Accessible (Bottom Areas)



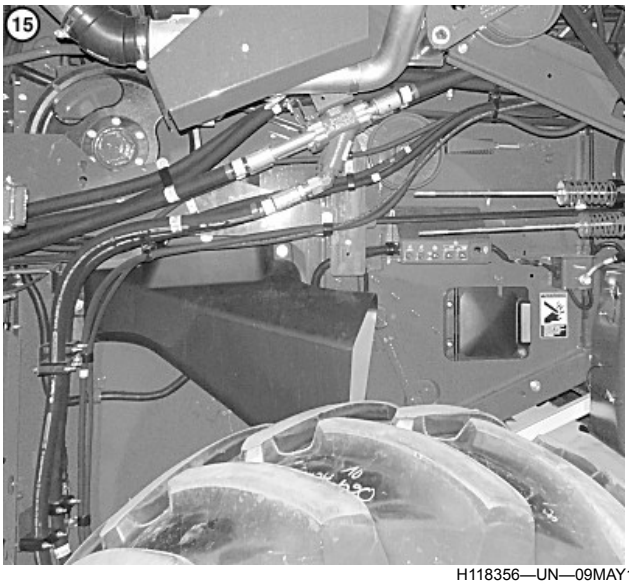
H105233—UN—02MAY12

(13) — Left Side Rotor Area

Ground Accessible (Bottom Areas)



H105234—UN—02MAY12



H118356—UN—09MAY16

(14) — Rotor Drives

(15) — Left Sidesheet Areas

Ground Accessible (Bottom Areas)



H108951—UN—28AUG13

(16) — Residue Disposal Drives

Ground Accessible (Bottom Areas)

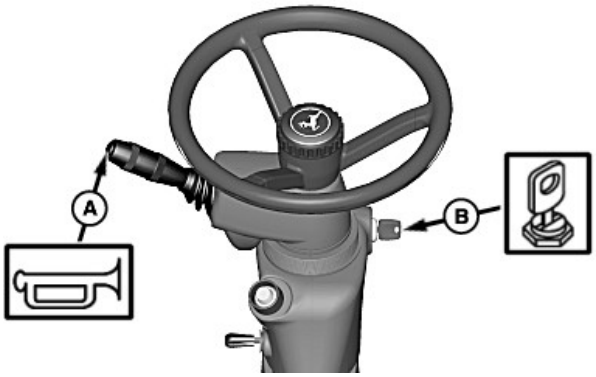


H108993—UN—29AUG13

(17) — Areas around and under Exhaust Aftertreatment Enclosure (If Equipped)

OUO6075,00046CA-19-28MAR17

Cleaning Out Machine (Annual Cleanout and Specialty Crops)



H97186—UN—02NOV10

A—Horn
B—Key Switch

⚠ CAUTION: To prevent injury, never clean machine with engine running and separator engaged. Shut OFF engine, set park brake and remove key.

The following instructions are recommended when cleaning out machine for certified seed crops or when transporting machine inter-state.

⚠ CAUTION: Block header safely so it does not move. Lower reel safety stops.

Remove header from the machine.

Drive machine over end rows or bumps to jar and shake dirt loose. Shut OFF engine, set park brake and remove key.

Open or remove all doors and drain holes.

⚠ CAUTION: Sound horn (A) to clear everyone from area. Stay clear of machine when discharging chaff.

Turn key switch (B) to start engine.

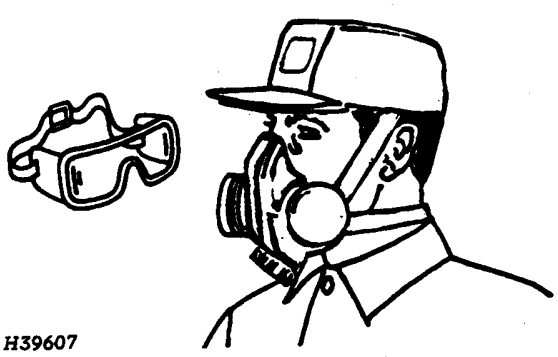
Engage separator until the chaff stops coming out rear of machine.

Lower engine rpm to slow speed and engage separator several times. Running the separator at slow speed removes dirt from inside the rotor.

Move throttle to high rpm and run for a few minutes. Repeat cycle until chaff no longer comes out of the rear of machine.

⚠ CAUTION: Keep bystanders clear of machine when discharging chaff.

Drive machine onto blocking so right-hand side is about 150 mm (6 in) higher, or park on incline so dirt can run out.

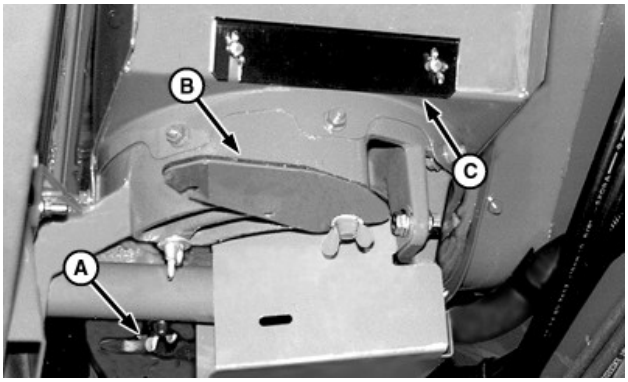


H39607—UN—11OCT88

⚠ CAUTION: Shut OFF engine, set park brake, remove key, block wheels and lower the feeder house safety stop.

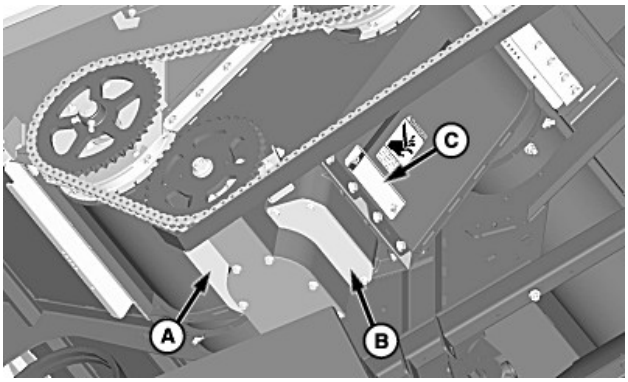
When working with compressed air in dusty conditions, you must wear goggles and dust mask for personal protection.

Start at the top of the machine and work down.



H62230—UN—19JAN00

Style A



H98866—UN—27OCT10

Style B

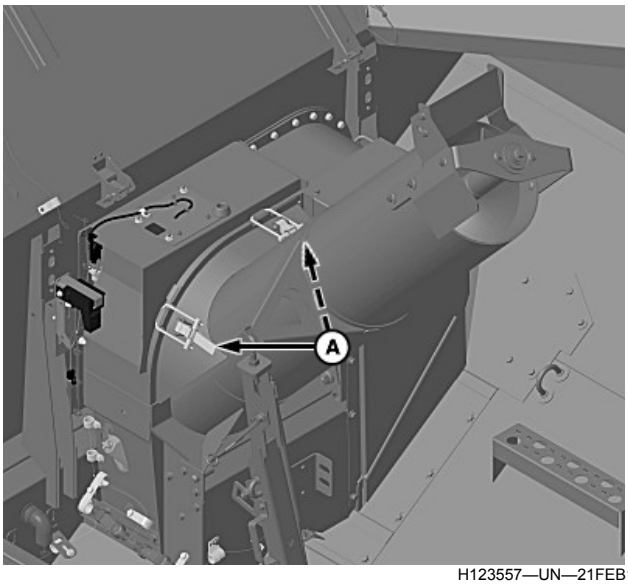
A—Cleanout Door
B—Cleanout Door
C—Cleanout Door

Open cleanout doors (A), (B) and (C).

Clean grain from under the grain tank cross augers over to the sump.

Clean grain from edges of unloading auger sump to the bottom. Grain must be cleaned out from doors while standing on ground.

Grain Tank Loading Auger (Grain Tank Extensions)



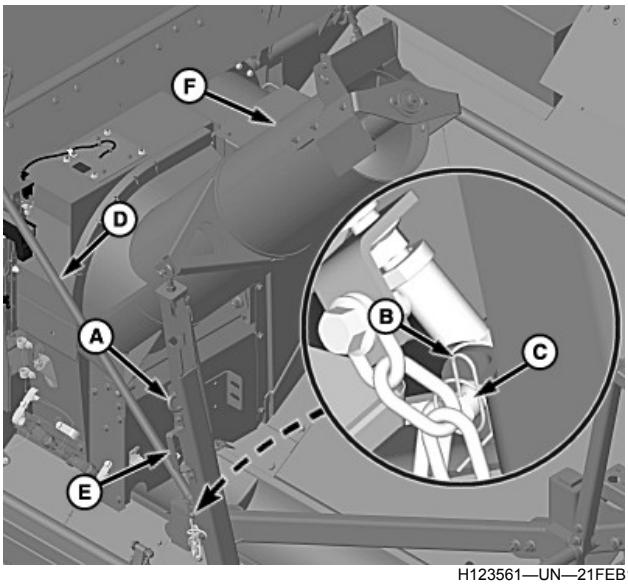
H123557—UN—21FEB18

A—Clamps

Release clamps (A) and lower auger.

Clean top area and down into the clean grain elevator to clean elevator chain. Clean all sides.

Grain Tank Loading Auger (Grain Tank Covers)



H123561—UN—21FEB18

A—Pin
B—Quick-Lock Pin
C—Pin
D—Turnbuckle
E—Handle
F—Auger

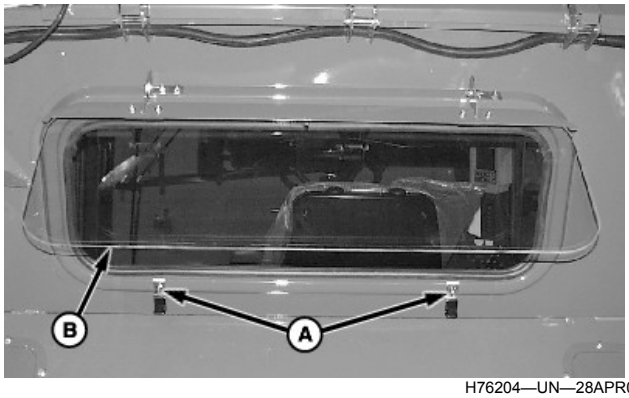
⚠ CAUTION: DO NOT pull or remove pin (A) to lower grain tank loading auger. Removing pin could result in personal injury or machine damage.

Grain tank loading auger is heavy. Use extra care when raising or lowering auger.

Remove quick-lock pin (B) and pin (C) from turnbuckle (D).

Use handle (E) to assist in lowering the grain tank loading auger (F).

Clean top area and down into the clean grain elevator to clean elevator chain. Clean all sides.

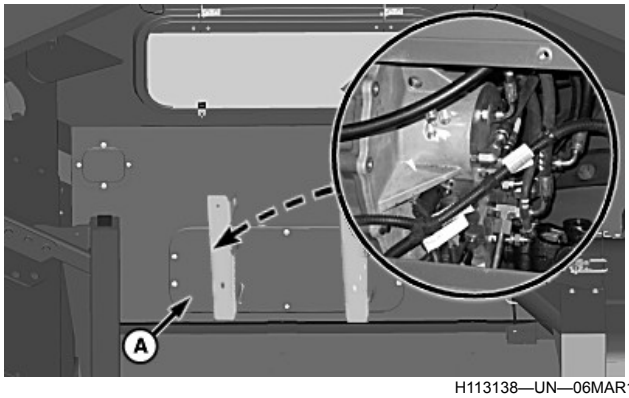


H76204—UN—28APR03

A—Clamps
B—Grain Tank Window

Loosen clamps (A) and swing grain tank window (B) up.

Clean out area behind cab, around the primary countershaft and over separator.

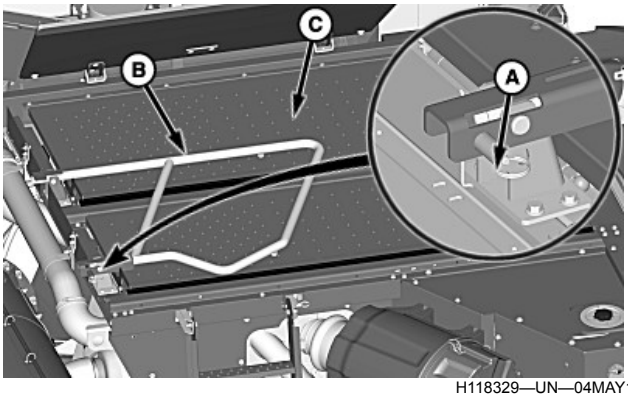


H113138—UN—06MAR15

A—Access Door

Remove access door (A) (if equipped) on the front side of the grain tank.

Clean out material around the multi-speed feeder house drive gear case.



H118329—UN—04MAY16

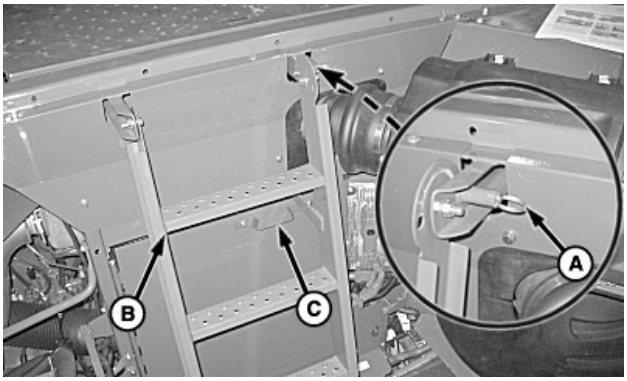
A—Lockout Pin
B—Handrail
C—Engine Access Covers

Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place.

Open engine access covers (C) and clean top side of engine compartment area and around separator on the front side of engine.

Clean entire engine compartment area, especially under engine.

Wipe up any oil or grease found on engine area.



H95353—UN—25AUG10

A—Lockout Pin
B—Ladder
C—Cover

Pull lockout pin (A) and rotate ladder (B) up until ladder locks into place.

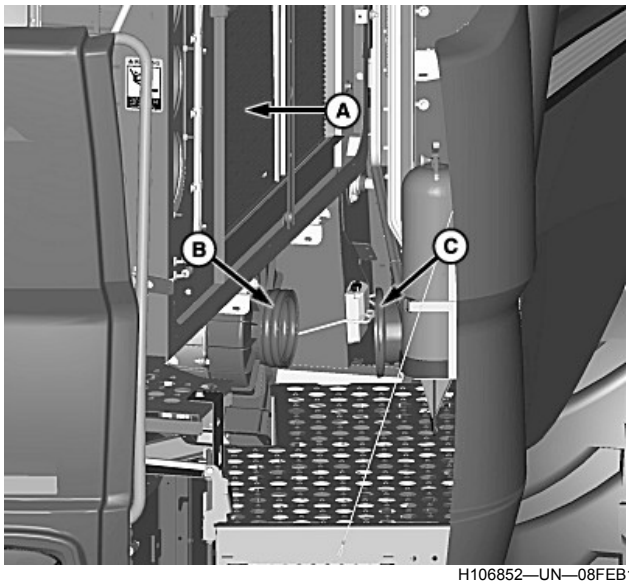
Pull filter access cover (C) open to release from magnet.

Clean rear side of engine compartment area.

Clean entire engine compartment area, especially under engine.

Wipe up any oil or grease found on engine area.

Tier 2/Stage II (Style A)



H106852—UN—08FEB13

A—Radiator
B—Vacuum Duct
C—Transfer Duct

NOTE: Clean areas out with compressed air, blowing from inside out.

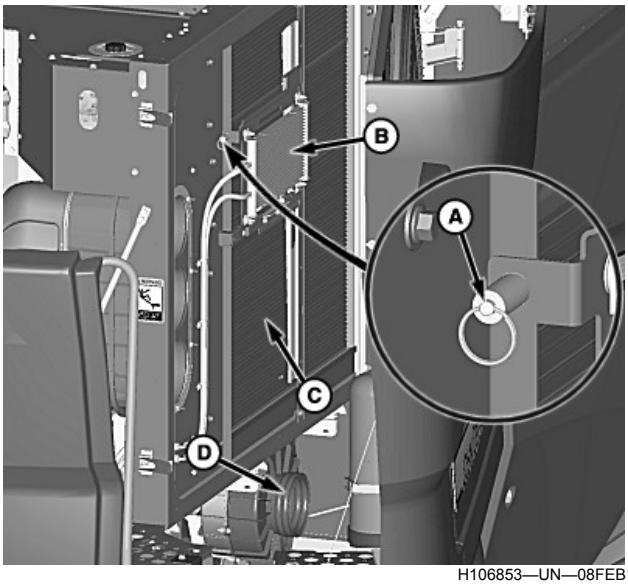
Open rotary screen door.

Clean the following areas from inside out:

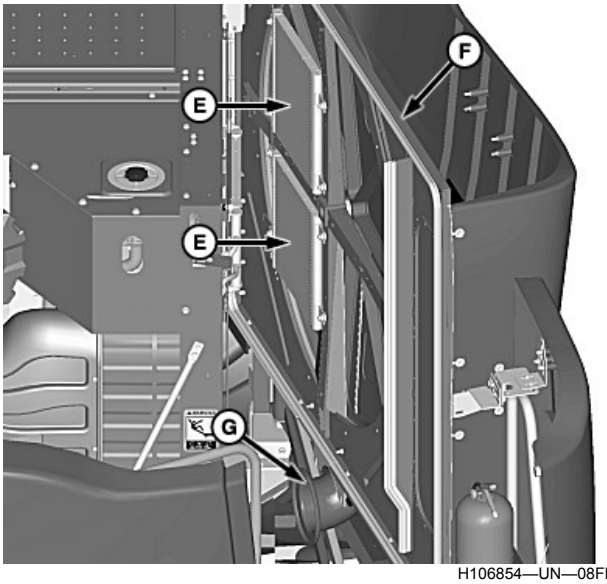
- Radiator (A)
- Condenser
- Oil Cooler
- Charge Air Cooler

Clean out dirt from the lower vacuum duct (B) and transfer duct (C).

Tier 2/Stage II (Style B) and Final Tier 4/Stage V



H106853—UN—08FEB13



H106854—UN—08FEB13

A—Lockout Pin
B—Fuel Cooler
C—Radiator
D—Vacuum Duct
E—Condensers
F—Rotary Screen Door
G—Transfer Duct

NOTE: Clean areas out with compressed air, blowing from inside out.

Open rotary screen door.

Pull lockout pin (A) and rotate fuel cooler (B) to clean.

Clean the following areas from inside out:

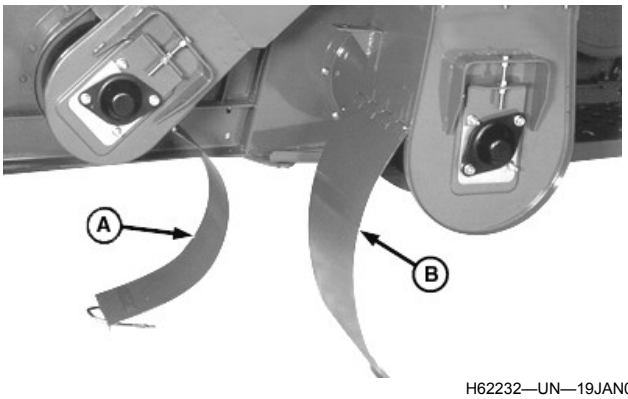
- Radiator (C)
- Oil Cooler
- Charge Air Cooler

Clean out dirt from the lower vacuum duct (D).

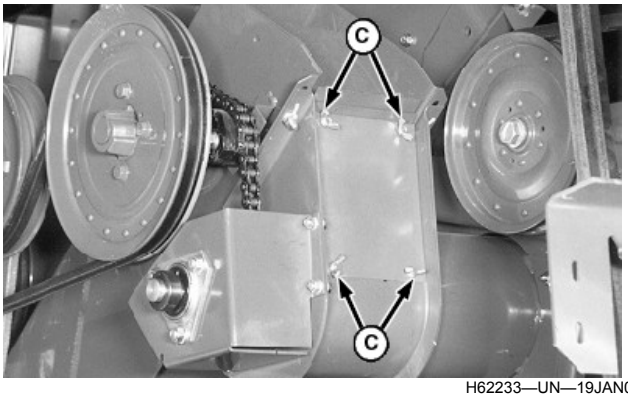
Clean condensers (E) on rotary screen door (F).

Clean out dirt from the transfer duct (G).

Clean Grain Elevator and Tailings Elevator (Style A)



H62232—UN—19JAN00



H62233—UN—19JAN00

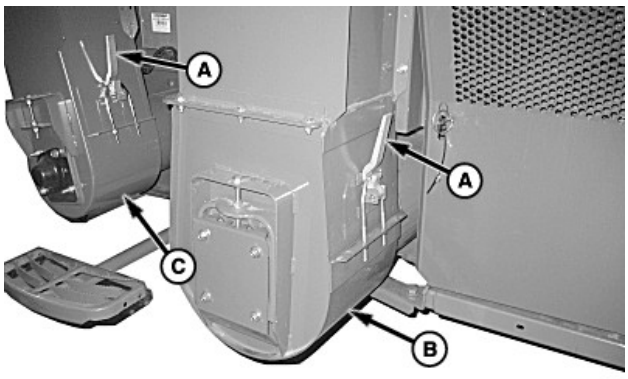
A—Tailings Elevator Door
B—Clean Grain Elevator Door
C—Wing Nuts

Open lower tailings elevator door (A) and clean grain elevator door (B).

Remove wing nuts (C) and remove door at upper end of tailings elevator.

Remove material as needed and clean sides of elevator.

Clean Grain Elevator and Tailings Elevator (Style B)

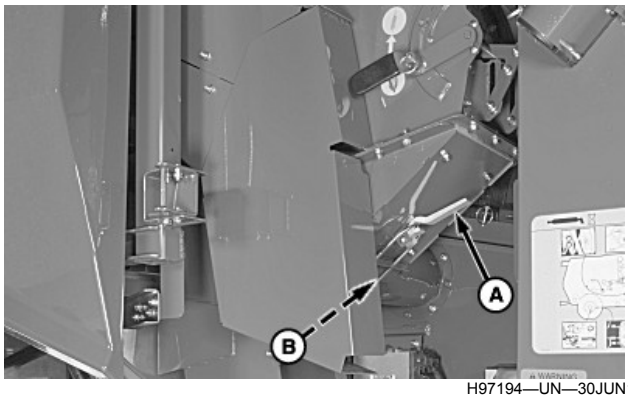


H97193—UN—30JUN10

A—Handles
B—Clean Grain Elevator Door
C—Tailings System Elevator Door

Use handles (A) to open clean grain elevator door (B) and tailings system elevator door (C).

Remove material as needed and clean sides of elevator.

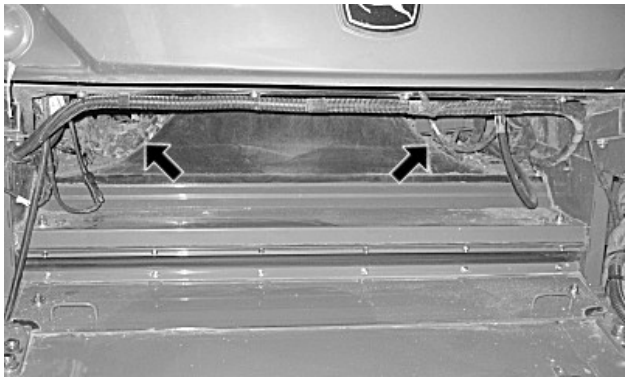


H97194—UN—30JUN10

A—Handle
B—Tailings System Auger Door

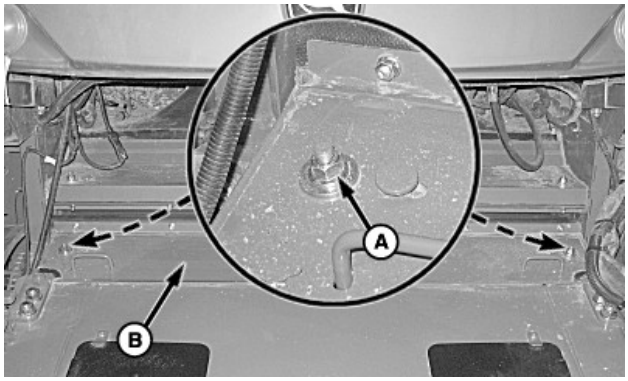
Use handle (A) to open the tailings system auger door (B).

Remove material as needed and clean sides of elevator.

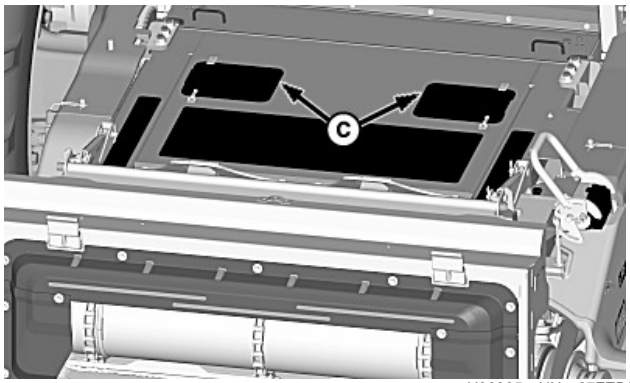


H100541—UN—02MAR11

Clean out chaff between separator and sides of machine.



H100486—UN—28FEB11



H90905—UN—27FEB08

A—Nuts
B—Feeder House Door
C—Feeder House Door

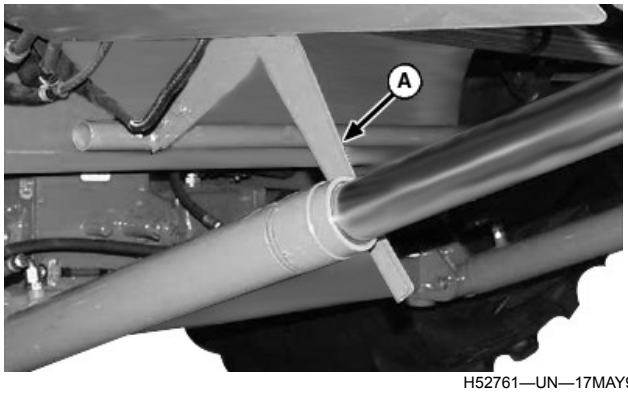
Loosen nuts (A) on each side of the feeder house door and push nuts towards center of the feeder house.

Pull door forward to remove.

Clean feeder house through top doors (B) and (C).

Lift conveyor chain and let chain snap back several times while cleaning.

Feed Plate (Style A)



H52761—UN—17MAY99

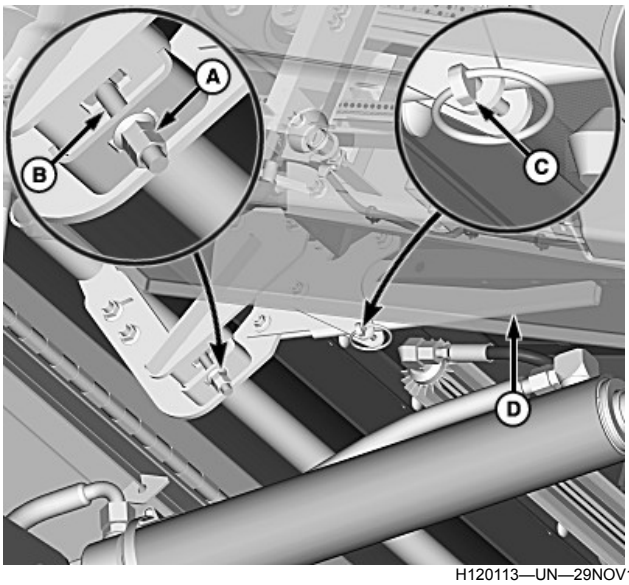
A—Lever

Remove quick-lock pin and move lever (A) down and rearward to open feed plate.

Clean out feed plate area.

Push lever forward and up to close feed plate. Retain with the previously removed quick-lock pin.

Feed Plate (Style B)



H120113—UN—29NOV16

A—Nuts
B—Round Head Bolt
C—Quick-Lock Pin
D—Lever

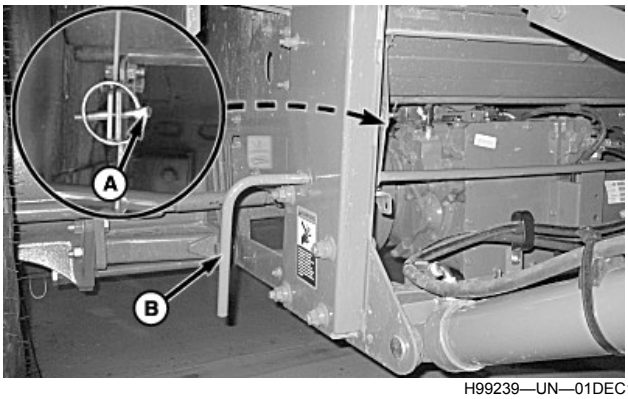
Remove nuts (A) and round head bolt (B) on both sides of the machine.

Remove quick-lock pin (C) and move lever (D) down and rearward to open feed plate.

Clean out feed plate area.

Push lever forward and up to close feed plate. Retain with previously removed quick-lock pin.

Install previously removed round head bolt (B) and nuts (A) on both sides of the machine.



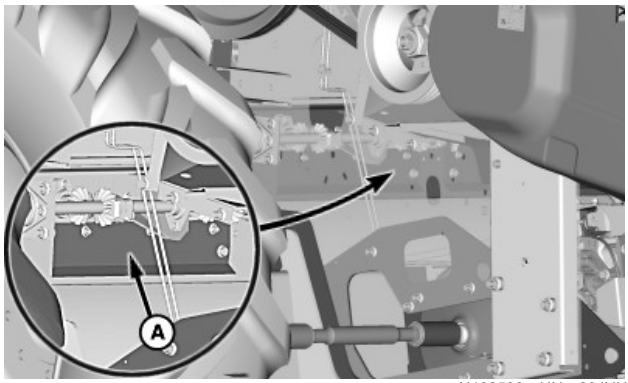
H99239—UN—01DEC10

A—Quick-Lock Pin
B—Lever

Remove quick-lock pin (A) and move lever (B) up to open stone trap.

Clean out stone trap area.

Move lever down to close stone trap. Retain with the quick-lock pin.

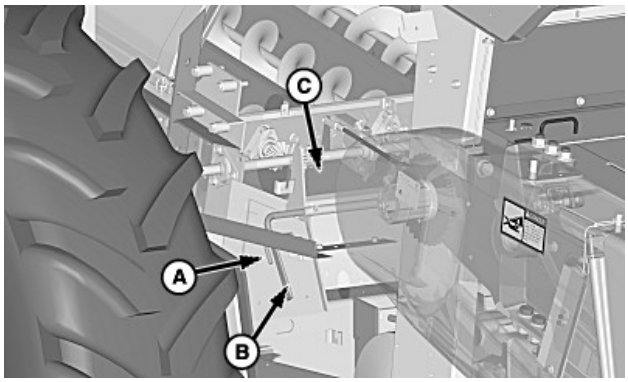


H102538—UN—29JUN11

A—Cleanout Doors

If Equipped: Remove cap screws from cleanout doors (A) to clean area.

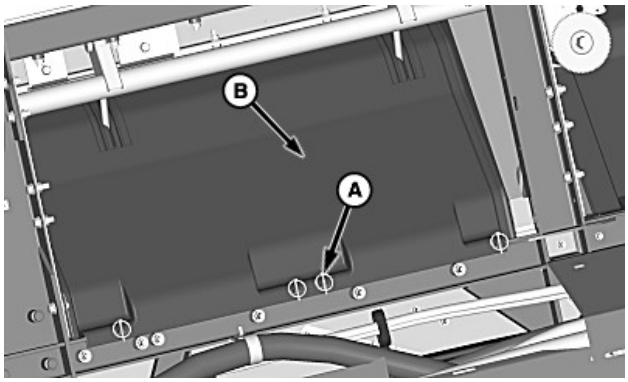
Install cleanout doors and cap screws when cleaning is complete.



H91139—UN—15APR08

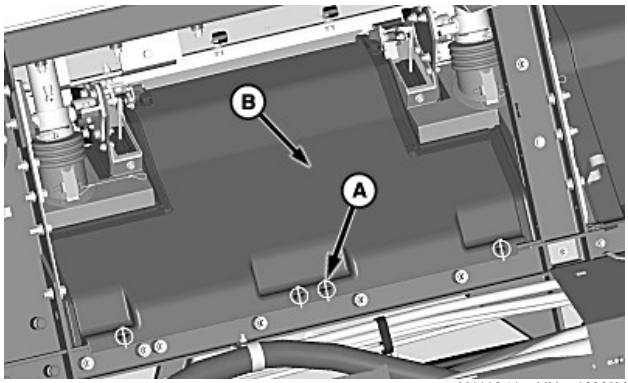
A—Lockout Pin
B—Handle
C—Cleanout Door

If Equipped: Pull lockout pin (A) and move handle (B) up to dump cleanout door (C) and move handle down to close and lock cleanout door.



H111240—UN—13MAY14

Inspection Cover (Standard Concave Adjust)



H111241—UN—13MAY14

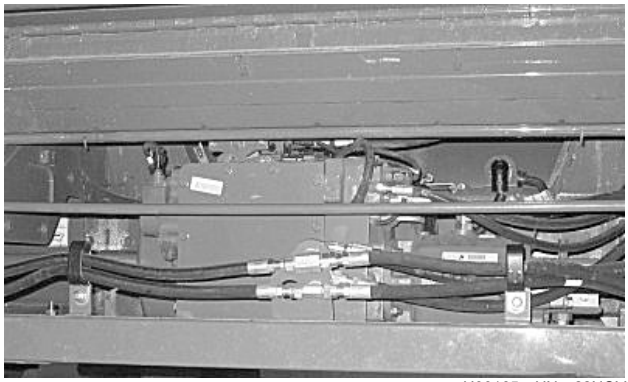
Inspection Cover (Active Concave Isolation)



H52708—UN—23MAR99

A—Quick-Lock Pins
B—Inspection Cover

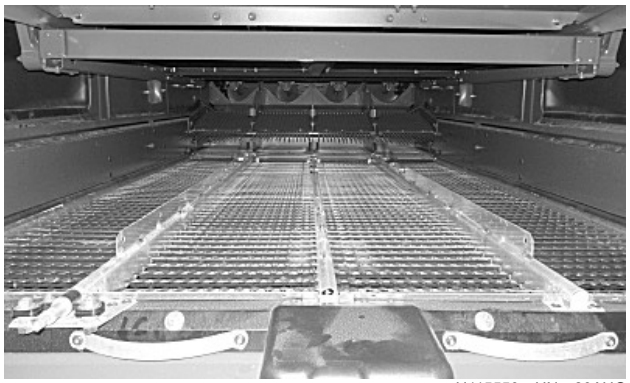
Remove quick-lock pins (A) and inspection cover (B). Use scraper to loosen material, and clean out through sides of machine.



H99165—UN—22NOV10

Push-Button Shift Machine Shown

Clean off top of axle and transmission.



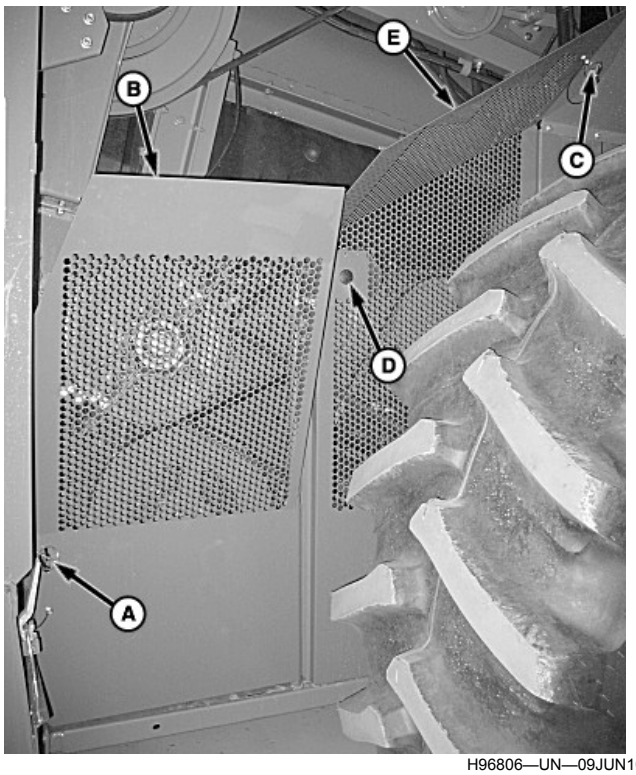
H115550—UN—20AUG15

Open sieve and chaffer as far as possible and clean.



H115551—UN—20AUG15

Clean rear axle area.



H96806—UN—09JUN10

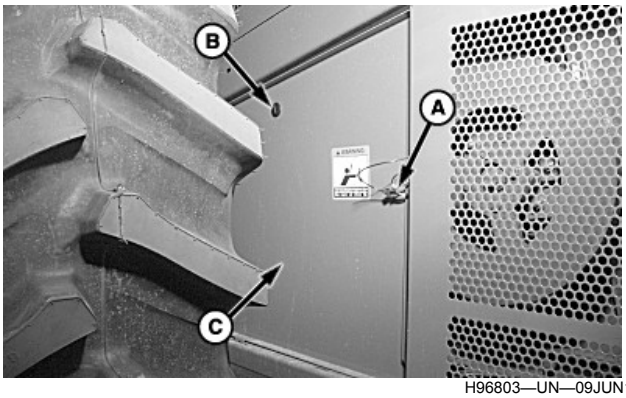
A—Quick-Lock Pin
B—Shield
C—Quick-Lock Pin
D—Latch
E—Shield

Remove quick-lock pin (A) and open shield (B).

Remove quick-lock pin (C) and turn latch (D) to unlock.

Lift and remove rear shield (B) and middle fan shield (E).

Clean out fan area.



H96803—UN—09JUN10

A—Quick-Lock Pin
B—Latch
C—Shield

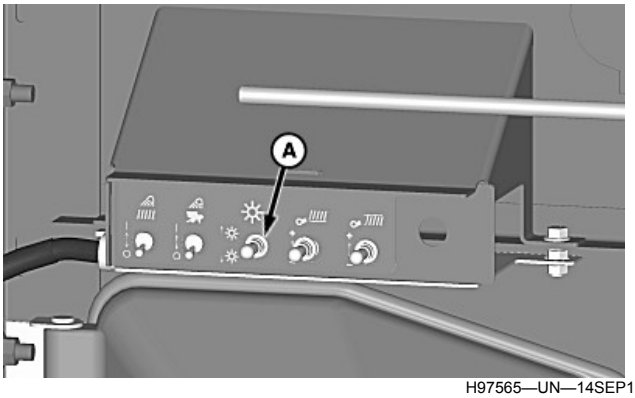
Remove quick-lock pin (A) and turn the latch (B) to remove shield (C).

Clean out area.



H123359—UN—08FEB18

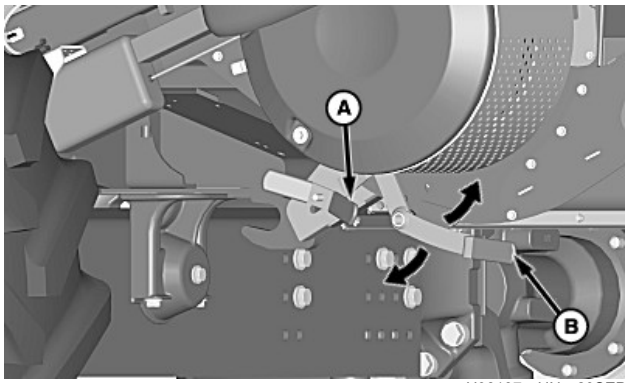
Clean area around fan.



H97565—UN—14SEP10

A—Switch

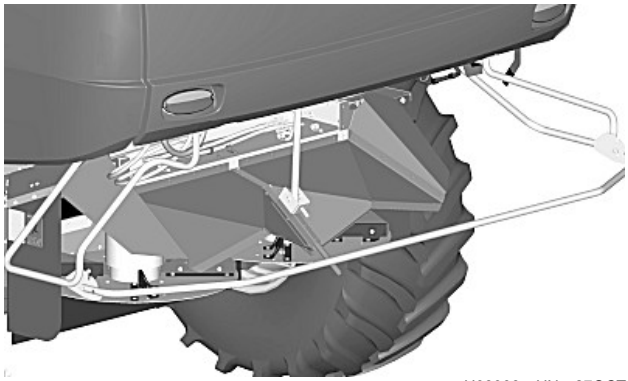
Raise chopper (if equipped) with switch (A).



H98137—UN—20SEP10

A—Wing Nut
B—Handle

Loosen wing nut (A) and use handle (B) to disengage the knifebank and clean chopper.



H98906—UN—27OCT10

Clean chaff from spreader (if equipped) drive area and spreader hood.

OUO6075,000489B-19-07JUN18

Handle Fuel Safely—Avoid Fires



TS202—UN—23AUG88

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.

Use only an approved fuel container for transporting flammable liquids.

Never fill fuel container in pickup truck with plastic bed liner. Always place fuel container on ground before refueling. Touch fuel container with fuel dispenser nozzle before removing can lid. Keep fuel dispenser nozzle in contact with fuel container inlet when filling.

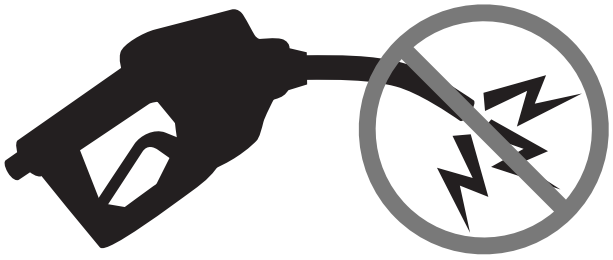
Do not store fuel container where there is an open flame, spark, or pilot light such as within a water heater or other appliance.

DX,FIRE1-19-12OCT11

Avoid Static Electricity Risk When Refueling



RG22142—UN—17MAR14



RG21992—UN—21AUG13

The removal of sulfur and other compounds in Ultra-Low Sulfur Diesel (ULSD) fuel decreases its conductivity and increases its ability to store a static charge.

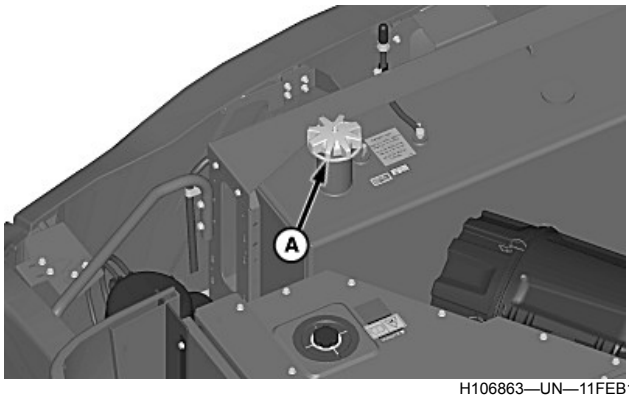
Refineries may have treated the fuel with a static dissipating additive. However, there are many factors that can reduce the effectiveness of the additive over time.

Static charges can build up in ULSD fuel while it is flowing through fuel delivery systems. Static electricity discharge when combustible vapors are present could result in a fire or explosion.

Therefore, it is important to ensure that the entire system used to refuel your machine (fuel supply tank, transfer pump, transfer hose, nozzle, and others) is properly grounded and bonded. Consult with your fuel or fuel system supplier to ensure that the delivery system is in compliance with fueling standards for proper grounding and bonding practices.

DX,FUEL,STATIC,ELEC-19-12JUL13

Fuel Tank—Filling



H106863—UN—11FEB13

A—Fuel Tank

CAUTION: Handle fuel carefully. Do not refuel machine while smoking. Shut OFF engine, set parking brake and remove key before filling tank.

Do not overfill fuel tank. Bodily injury can result from fuel splash back. Leakage can result from expansion of fuel. If tank is too full, then left in direct sunlight or if temperature gets too hot, tank will overflow.

IMPORTANT: Final Tier 4/Stage V Engines: Use ONLY ultra low sulfur diesel fuel. See Diesel Fuel and Biodiesel Fuel in this section for further information.

Fill fuel tank (A) at end of each day. This prevents condensation in tank as moist air cools.

OUO6075,00047E5-19-13NOV17

Handling and Storing Diesel Fuel

CAUTION: Reduce the risk of fire. Handle fuel carefully. DO NOT fill the fuel tank when engine is running. DO NOT smoke while you fill the fuel tank or service the fuel system.

Fill the fuel tank at the end of each day's operation to prevent water condensation and freezing during cold weather.

Keep all storage tanks as full as practicable to minimize condensation.

Ensure that all fuel tank caps and covers are installed properly to prevent moisture from entering. Monitor water content of the fuel regularly.

When using BioDiesel fuel, the fuel filter may require more frequent replacement due to premature plugging.

Check engine oil level daily prior to starting engine. A rising oil level may indicate fuel dilution of the engine oil.

When fuel is stored for an extended period or if there is a slow turnover of fuel, add a fuel conditioner to stabilize the fuel and prevent water condensation. Contact your fuel supplier or John Deere dealer for recommendations.

OUO6075,000163E-19-06SEP13

Diesel Fuel

Consult your local fuel distributor for properties of the diesel fuel available in your area.

In general, diesel fuels are blended to satisfy the low temperature requirements of the geographical area in which they are marketed.

Diesel fuels specified to EN 590 or ASTM D975 are recommended. Renewable diesel fuel produced by hydrotreating animal fats and vegetable oils is basically identical to petroleum diesel fuel. Renewable diesel that meets EN 590, ASTM D975, or EN 15940 is acceptable for use at all percentage mixture levels.

Required Fuel Properties

In all cases, the fuel shall meet the following properties:

Cetane number of 40 minimum. Cetane number greater than 47 is preferred, especially for temperatures below –20 °C (–4 °F) or elevations above 1675 m (5500 ft.).

Cloud Point should be below the expected lowest ambient temperature or **Cold Filter Plugging Point** (CFPP) should be a maximum 10°C (18°F) below the fuel cloud point.

Fuel lubricity should pass a maximum scar diameter of 0.52 mm as measured by ASTM D6079 or ISO 12156-1. A maximum scar diameter of 0.45 mm is preferred.

Diesel fuel quality and sulfur content must comply with all existing emissions regulations for the area in which the engine operates. DO NOT use diesel fuel with sulfur content greater than 10 000 mg/kg (10 000 ppm).

E-Diesel fuel

DO NOT use E-Diesel (Diesel fuel and ethanol blend). Use of E-Diesel fuel in any John Deere machine may void the machine warranty.

CAUTION: Avoid severe injury or death due to the fire and explosion risk from using E-Diesel fuel.

Sulfur content for Interim Tier 4, Final Tier 4, Stage III B, Stage IV Engines, and Stage V engines

- Use ONLY ultra low sulfur diesel (ULSD) fuel with a maximum of 15 mg/kg (15 ppm) sulfur content.

Sulfur Content for Tier 3 and Stage III A Engines

- Use of diesel fuel with sulfur content less than 1000 mg/kg (1000 ppm) is RECOMMENDED.
- Use of diesel fuel with sulfur content 1000—2000 mg/kg (1000—2000 ppm) REDUCES the oil and filter change interval.
- BEFORE using diesel fuel with sulfur content greater than 2000 mg/kg (2000 ppm), contact your John Deere dealer.

Sulfur Content for Tier 2 and Stage II Engines

- Use of diesel fuel with sulfur content less than 2000 mg/kg (2000 ppm) is RECOMMENDED.
- Use of diesel fuel with sulfur content 2000—5000 mg/kg (2000—5000 ppm) REDUCES the oil and filter change interval.[1]
- BEFORE using diesel fuel with sulfur content greater than 5000 mg/kg (5000 ppm), contact your John Deere dealer.

[1] See DX,ENOIL12,OEM, DX,ENOIL12,T2,STD, or DX,ENOIL12,T2, EXT for more information on Engine Oil and Filter Service Intervals.

Sulfur Content for Other Engines

- Use of diesel fuel with sulfur content less than 5000 mg/kg (5000 ppm) is RECOMMENDED.
- Use of diesel fuel with sulfur content greater than 5000 mg/kg (5000 ppm) REDUCES the oil and filter change interval.

IMPORTANT: Do not mix used diesel engine oil or any other type of lubricating oil with diesel fuel.

Improper fuel additive usage may cause damage on fuel injection equipment of diesel engines.

DX,FUEL1-19-13JAN18

Biodiesel Fuel

Biodiesel fuel is comprised of monoalkyl esters of long chain fatty acids derived from vegetable oils or animal fats. Biodiesel blends are biodiesel mixed with petroleum diesel fuel on a volume basis.

Before using fuel containing biodiesel, review the Biodiesel Use Requirements and Recommendations in this Operator's Manual.

Environmental laws and regulations can encourage or prohibit the use of biofuels. Operators should consult with appropriate governmental authorities prior to using biofuels.

John Deere Stage V Engines Operating in the European Union

Where the engine is to be operated within the Union on diesel or non-road gas-oil, a fuel with a FAME content not greater than 8% volume/volume (B8) shall be used.

John Deere Engines with Exhaust Filter Except Stage V Engines Operating in the European Union

Biodiesel blends up to B20 can be used ONLY if the biodiesel (100% biodiesel or B100) meets ASTM D6751, EN 14214, or equivalent specification. Expect a 2% reduction in power and a 3% reduction in fuel economy when using B20.

Biodiesel concentrations above B20 can harm the engine's emission control systems and should not be used. Risks include, but are not limited to, more frequent stationary regeneration, soot accumulation, and increased intervals for ash removal.

John Deere Fuel conditioners or equivalent, which contain detergent and dispersant additives, are required when using biodiesel blends from B10 to B20, and are recommended when using lower biodiesel blends.

John Deere Engines Without Exhaust Filter

Biodiesel blends up to B20 can be used ONLY if the biodiesel (100% biodiesel or B100) meets ASTM D6751, EN 14214, or equivalent specification. Expect a 2% reduction in power and a 3% reduction in fuel economy when using B20.

These John Deere engines can operate on biodiesel blends above B20 (up to 100% biodiesel). Operate at levels above B20 ONLY if the biodiesel is permitted by law and meets the EN 14214 specification (primarily available in Europe). Engines operating on biodiesel blends above B20 might not fully comply with or be permitted by all applicable emissions regulations. Expect up to a 12% reduction in power and an 18% reduction in fuel economy when using 100% biodiesel.

John Deere fuel conditioners or equivalent, which contain detergent and dispersant additives, are required when using biodiesel blends from B10 to B100, and are recommended when using lower biodiesel blends.

Biodiesel Use Requirements and Recommendations

The petroleum diesel portion of all biodiesel blends must meet the requirements of ASTM D975 (US) or EN 590 (EU) commercial standard.

Biodiesel users in the U.S. are strongly encouraged to purchase biodiesel blends from a BQ-9000 Certified Marketer and sourced from a BQ-9000 Accredited Producer (as certified by the National biodiesel Board). Certified Marketers and Accredited Producers can be found at the following website: http://www.bq9000.org.

Biodiesel contains residual ash. Ash levels exceeding the maximums allowed in either ASTM D6751 or EN14214 can result in more rapid ash loading and require more frequent cleaning of the Exhaust Filter (if present).

The fuel filter can require more frequent replacement when using biodiesel fuel, particularly if switching from diesel. Check engine oil level daily prior to starting engine. A rising oil level can indicate fuel dilution of the engine oil. Biodiesel blends up to B20 must be used within 90 days of the date of biodiesel manufacture. Biodiesel blends above B20 must be used within 45 days from the date of biodiesel manufacture.

When using biodiesel blends up to B20, the following must be considered:

- Cold-weather flow degradation
- Stability and storage issues (moisture absorption, microbial growth)
- Possible filter restriction and plugging (usually a problem when first switching to biodiesel on used engines)
- Possible fuel leakage through seals and hoses (primarily an issue with older engines)
- Possible reduction of service life of engine components

Request a certificate of analysis from your fuel distributor to ensure that the fuel is compliant with the specifications provided in this Operator's Manual.

Consult your John Deere dealer for John Deere fuel products to improve storage and performance with biodiesel fuels.

The following must also be considered if using biodiesel blends above B20:

- Possible coking or blocked injector nozzles, resulting in power loss and engine misfire if John Deere fuel additives and conditioners or equivalent containing detergent/dispersants are not used
- Possible crankcase oil dilution (requiring more frequent oil changes)
- Possible lacquering or seizure of internal components
- Possible formation of sludge and sediments
- Possible thermal oxidation of fuel at elevated temperatures
- Possible compatibility issues with other materials (including copper, lead, zinc, tin, brass, and bronze) used in fuel handling, distribution, and storage equipment
- Possible reduction in water separator efficiency
- Possible damage to paint if exposed to biodiesel
- Possible corrosion of fuel injection equipment
- Possible elastomeric seal and gasket material degradation (primarily an issue with older engines)
- Possible high acid levels within fuel system
- Because biodiesel blends above B20 contain more ash, using blends above B20 can result in more rapid ash loading and require more frequent cleaning of the Exhaust Filter (if present)

IMPORTANT: Raw pressed vegetable oils are NOT acceptable for use as fuel in any concentration in John Deere engines. Their use could cause engine failure.

DX,FUEL7-19-13JAN18

Lubricity of Diesel Fuel

Most diesel fuels manufactured in the United States, Canada, and the European Union have adequate lubricity to ensure proper operation and durability of fuel injection system components. However, diesel fuels manufactured in some areas of the world may lack the necessary lubricity.

IMPORTANT: Make sure the diesel fuel used in your machine demonstrates good lubricity characteristics.

Fuel lubricity should pass a maximum scar diameter of 0.52 mm as measured by ASTM D6079 or ISO 12156-1. A maximum scar diameter of 0.45 mm is preferred.

If fuel of low or unknown lubricity is used, add John Deere Fuel-Protect Diesel Fuel Conditioner (or equivalent) at the specified concentration.

Lubricity of BioDiesel Fuel

Fuel lubricity can improve significantly with BioDiesel blends up to B20 (20% BioDiesel). Further increase in lubricity is limited for BioDiesel blends greater than B20.

DX,FUEL5-19-07FEB14

Supplemental Diesel Fuel Additives

Diesel fuel can be the source of performance or other operational problems for many reasons. Some causes include poor lubricity, contaminants, low cetane number, and a variety of properties that cause fuel system deposits. These and others are referenced in other sections of this Operator's Manual.

To optimize engine performance and reliability, closely follow recommendations on fuel quality, storage, and handling, which are found elsewhere in this Operator's Manual.

To further aid in maintaining performance and reliability of the engine's fuel system, John Deere has developed a family of fuel additive products for most global markets. The primary products include Fuel-Protect Diesel Fuel Conditioner (full feature conditioner in winter and summer formulas) and Fuel-Protect Keep Clean (fuel injector deposit removal and prevention). Availability of these and other products varies by market. See your local John Deere dealer for availability and additional information about fuel additives that might be right for your needs.

DX,FUEL13-19-07FEB14

Testing Diesel Fuel

A fuel analysis program can help to monitor the quality of diesel fuel. The fuel analysis can provide critical data such as calculated cetane index, fuel type, sulfur content, water content, appearance, suitability for cold weather operations, bacteria, cloud point, acid number, particulate contamination, and whether the fuel meets ASTM D975 or equivalent specification.

Contact your John Deere dealer for more information on diesel fuel analysis.

DX,FUEL6-19-13JAN18

Minimizing the Effect of Cold Weather on Diesel Engines

John Deere diesel engines are designed to operate effectively in cold weather.

However, for effective starting and cold-weather operation, a little extra care is necessary. The following information outlines steps that can minimize the effect

that cold weather may have on starting and operation of your engine. See your John Deere dealer for additional information and local availability of cold-weather aids.

Use Winter Grade Fuel

When temperatures fall below 0°C (32°F), winter grade fuel (No. 1-D in North America) is best suited for cold-weather operation. Winter grade fuel has a lower cloud point and a lower pour point.

Cloud point is the temperature at which wax begins to form in the fuel. This wax causes fuel filters to plug. **Pour point** is the lowest temperature at which movement of the fuel is observed.

NOTE: On average, winter grade diesel fuel has a lower Btu (heat content) rating. Using winter grade fuel may reduce power and fuel efficiency, but should not cause any other engine performance effects. Check the grade of fuel being used before troubleshooting for low-power complaints in cold-weather operation.

Air Intake Heater

An air intake heater is an available option for some engines to aid cold weather starting.

Ether

An ether port on the intake is available to aid cold weather starting.

CAUTION: Ether is highly flammable. Do not use ether when starting an engine equipped with glow plugs or an air intake heater.

Coolant Heater

An engine block heater (coolant heater) is an available option to aid cold weather starting.

Seasonal Viscosity Oil and Proper Coolant Concentration

Use seasonal grade viscosity engine oil based on the expected air temperature range between oil changes and a proper concentration of low silicate antifreeze as recommended. (See DIESEL ENGINE OIL and ENGINE COOLANT requirements in this section.)

Diesel Fuel Cold Flow Additive

Use John Deere Fuel-Protect Diesel Fuel Conditioner (winter formula), which contains anti-gel chemistry, or equivalent fuel conditioner to treat non-winter grade fuel (No. 2-D in North America) during the cold-weather season. This generally extends operability to about 10°C (18°F) below the fuel cloud point. For operability at even lower temperatures, use winter grade fuel.

IMPORTANT: Treat fuel when outside temperature drops below 0°C (32°F). For best results, use with untreated fuel. Follow all recommended instructions on label.

Biodiesel

When operating with biodiesel blends, wax formation can occur at warmer temperatures. Begin using John Deere Fuel-Protect Diesel Fuel Conditioner (winter formula) or equivalent at 5°C (41°F) to treat biodiesel fuels during the cold-weather season. Use B5 or lower blends at temperatures below 0°C (32°F). Use only winter grade petroleum diesel fuel at temperatures below -10°C (14°F).

Winterfronts

Use of fabric, cardboard, or solid winterfronts is not recommended with any John Deere engine. Their use can result in excessive engine coolant, oil, and charge air temperatures. This can lead to reduced engine life, loss of power and poor fuel economy. Winterfronts may also put abnormal stress on fan and fan drive components potentially causing premature failures.

If winterfronts are used, they should never totally close off the grill frontal area. Approximately 25% area in the center of the grill should remain open at all times. At no time should the air blockage device be applied directly to the radiator core.

Radiator Shutters

If equipped with a thermostatically controlled radiator shutter system, this system should be regulated in such a way that the shutters are completely open by the time the coolant reaches 93°C (200°F) to prevent excessive intake manifold temperatures. Manually controlled systems are not recommended.

If air-to-air aftercooling is used, the shutters must be completely open by the time the intake manifold air temperature reaches the maximum allowable temperature out of the charge air cooler.

For more information, see your John Deere dealer.

DX,FUEL10-19-13JAN18

Diesel Exhaust Fluid (DEF) — Use in Selective Catalytic Reduction (SCR) Equipped Engines

In order to maintain the emissions performance of the engine, it is essential to use and refill DEF in accordance with the specification.

Diesel exhaust fluid (DEF) is a high purity liquid that is injected into the exhaust system of engines equipped with selective catalytic reduction (SCR) systems. Maintaining the purity of DEF is important to avoid malfunctions in the SCR system. Engines requiring DEF shall use a product that meets the requirements for

aqueous urea solution 32 (AUS 32) according to ISO 22241-1.

The use of John Deere Diesel Exhaust Fluid is recommended. John Deere Diesel Exhaust Fluid is available at your John Deere dealer in a variety of package sizes to suit your operational needs.

If John Deere Diesel Exhaust Fluid is not available, use DEF that is certified by the American Petroleum Institute (API) Diesel Exhaust Fluid Certification Program or by the AdBlue™ Diesel Exhaust Fluid Certification Program. Look for the API certification symbol or the AdBlue™ name on the container.



RG30211—UN—08MAR18

In some cases, DEF is referred to by one or more of these names:

- Urea
- Aqueous Urea Solution 32
- AUS 32
- AdBlue™
- NOx Reduction Agent
- Catalyst Solution

DX,DEF-19-13JAN18

Testing Diesel Exhaust Fluid (DEF)

IMPORTANT: Using DEF with the correct concentration is critical to engine and aftertreatment system performance. Extended storage and other conditions can adversely alter the DEF concentration.

If DEF quality is questionable, draw a sample out of the DEF tank or storage tank into a clear container. DEF must be crystal clear with a light ammonia smell. If DEF appears cloudy, has a colored tint, or has a profound ammonia smell, it is likely not within specification. DEF in this condition should not be used. Drain tank, flush with distilled water and refill with new or good DEF. After refilling the tank, check the DEF concentration.

If the DEF passes the visual and smell test, check the DEF concentration with a handheld refractometer calibrated to measure DEF.

DEF concentration should be checked when the engine has been stored for extended periods, or if there is suspicion the engine or packaged DEF fluid has been contaminated with water.

AdBlue is a trademark of VDA, the German Association of the Automotive Industry.

Two approved tools are available through your John Deere dealer:

- JDG11594 Digital DEF Refractometer—A digital tool providing an easy to read concentration measurement
- JDG11684 DEF Refractometer—Low-cost alternative tool providing an analog reading

Follow instructions included with either tool to obtain the measurement.

The correct DEF concentration is 31.8—33.2% urea. If the DEF concentration is not within specification, drain the DEF tank, flush with distilled water and fill with new or good DEF. If packaged DEF is not within specification, dispose of DEF packages and replace with new or good DEF.

DX,DEF,TEST-19-13JUN13

Storing Diesel Exhaust Fluid (DEF)

CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. Reference the Materials Safety Data Sheet (MSDS) for additional information.

Do not ingest DEF. In the event DEF is ingested, contact a physician immediately. Reference the Materials Safety Data Sheet (MSDS) for additional information.

IMPORTANT: It is unlawful to tamper with or remove any component of the aftertreatment system. Do not use DEF that does not meet the required specifications or operate the engine with no DEF.

Never attempt to create DEF by mixing agricultural grade urea with water. Agricultural grade urea does not meet the necessary specifications and can damage the aftertreatment system.

Do not add any chemicals or additives to DEF in an effort to prevent freezing. Any chemicals or additives added to DEF can damage the aftertreatment system.

Never add water or any other fluid in place of, or in addition to DEF. Operating with a modified DEF or using an unapproved DEF can damage the aftertreatment system.

The following storage information is provided for reference and is to be used as a guideline only.

It is preferred to store DEF out of extreme ambient temperatures. DEF freezes at –11 °C (12 °F). Exposure to temperatures greater than 30 °C (86 °F) can degrade DEF over time.

Dedicated DEF storage containers must be sealed between uses to prevent evaporation and contamination. Containers made of polyethylene, polypropylene, or stainless steel are recommended to transport and store DEF.

Ideal conditions for storage of DEF are:

- Store at temperatures between –5 °C and 30 °C (23 ° F and 86 °F)
- Store in dedicated containers sealed to avoid contamination and evaporation

Under these conditions, DEF is expected to remain useable for a minimum of 18 months. Storing DEF at higher temperatures can reduce its useful life by approximately 6 months for every 5 °C (9 °F) temperature above 30 °C (86 °F).

If unsure how long or under what conditions DEF has been stored, test DEF. See Testing Diesel Exhaust Fluid (DEF).

Long-term storage in the DEF tank (over 12 months) is not recommended. If long-term storage is necessary, test DEF prior to operating engine. See Testing Diesel Exhaust Fluid (DEF).

It is recommended to purchase DEF in quantities that will be consumed within 12 months.

DX,DEF,STORE-19-13JUN13

Refilling Diesel Exhaust Fluid (DEF) Tank



TS1731—UN—23AUG13

CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. Reference the Materials Safety Data Sheet (MSDS) for additional information.

Do not ingest DEF. In the event DEF is ingested, contact a physician immediately. Reference the Materials Safety Data Sheet (MSDS) for additional information.

IMPORTANT: Use only distilled water to rinse components that are used to deliver DEF. Tap water can contaminate DEF. If distilled water is not available, rinse with clean tap water, then thoroughly rinse with ample amounts of DEF.

If DEF is spilled or contacts any surface other than the storage tank, immediately clean the surface with clear water. DEF is corrosive to painted and unpainted metallic surfaces and can distort some plastic and rubber components.

If DEF is filled into engine fuel tank or other fluid compartment, do not operate engine until system is properly purged of DEF. Contact your John Deere dealer immediately to determine how to clean and purge the system.

Reasonable care should be taken when refilling the DEF tank. Ensure that the DEF tank cap area is free of debris before removing the cap. Seal containers of DEF between use to prevent contamination and evaporation.

Avoid splashing DEF and do not allow DEF to come into contact with skin, eyes, or mouth.

DEF is not harmful to handle, but DEF can be corrosive to materials such as steel, iron, zinc, nickel, copper, aluminum, and magnesium. Use suitable containers to transport and store DEF. Containers made of polyethylene, polypropylene, or stainless steel are recommended.

Avoid prolonged contact with skin. In case of accidental contact, wash skin immediately with soap and water.

Keep anything used to store or dispense DEF clean of dirt and dust. Wash and rinse containers or funnels thoroughly with distilled water to remove contaminants.

If an unapproved fluid, such as diesel fuel or coolant is added to the DEF tank, contact your John Deere dealer immediately to determine how to clean and purge the system.

If water has been added to the DEF tank, a tank cleaning is necessary. See Cleaning DEF Tank in this manual. After refilling the tank, check the DEF concentration. See Testing Diesel Exhaust Fluid (DEF).

The operator must maintain appropriate DEF levels at all times. Check the DEF level daily and refill the tank as needed. A typical engine with EGR will consume approximately 40:1 Fuel:DEF and without EGR 15:1 Fuel:DEF (by volume). The filling port is identified by a blue colored cap embossed with the DEF symbol, shown.

DX,DEF,REFILL-19-13JAN18

Disposal of Diesel Exhaust Fluid (DEF)

Although there is little issue with minor spillage of DEF on the ground, large amounts of DEF should be contained. If large spills occur, contact local environmental authorities for assistance with clean-up.

If a substantial quantity of DEF is not within specification, contact the DEF supplier for assistance

with disposal. Do not dump substantial quantities of DEF onto the ground or send DEF to wastewater treatment facilities.

DX,DEF,DISPOSE-19-13JUN13

Diesel Engine Coolant (engine with wet sleeve cylinder liners)

Failure to follow applicable coolant standards and drain intervals can result in severe engine damage that may not be covered under warranty. Warranties, including the emissions warranty, are not conditioned on the use of John Deere coolants, parts or service.

Preferred Coolants

Failure to follow applicable coolant standards and drain intervals can result in severe engine damage that may not be covered under warranty. Warranties, including the emissions warranty, are not conditioned on the use of John Deere coolants, parts, or service.

The following pre-mix engine coolants are preferred:

- **John Deere COOL-GARD™ II**
- **John Deere COOL-GARD II PG**

COOL-GARD II pre-mix coolant is available in several concentrations with different freeze protection limits as shown in the following table.

COOL-GARD II Pre-Mix	Freeze Protection Limit
COOL-GARD II 20/80	-9°C (16°F)
COOL-GARD II 30/70	-16°C (3°F)
COOL-GARD II 50/50	-37°C (-34°F)
COOL-GARD II 55/45	-45°C (-49°F)
COOL-GARD II PG 60/40	-49°C (-56°F)
COOL-GARD II 60/40	-52°C (-62°F)

Not all COOL-GARD II pre-mix products are available in all countries.

Use COOL-GARD II PG when a non-toxic coolant formulation is required.

Additional Recommended Coolants

The following engine coolant is also recommended:

- John Deere COOL-GARD II Concentrate in a 40—60% mixture of concentrate with quality water.

IMPORTANT: When mixing coolant concentrate with water, do not use less than 40% or greater than 60% concentration of coolant. Less than 40% gives inadequate additives for corrosion protection. Greater than 60% can result in coolant gelation and cooling system problems.

COOL-GARD is a trademark of Deere & Company

Other Coolants

Other ethylene glycol or propylene glycol base coolants may be used if they meet the following specification:

- Pre-mix coolant meeting ASTM D6210 requirements
- Are nitrite-free
- Coolant concentrate meeting ASTM D6210 requirements in a 40—60% mixture of concentrate with quality water

If coolant meeting one of these specifications is unavailable, use a coolant concentrate or pre-mix coolant that has a minimum of the following chemical and physical properties:

- Provides cylinder liner cavitation protection according to either the John Deere Cavitation Test Method or a fleet study run at or above 60% load capacity
- Is formulated with a nitrite-free additive package
- Protects the cooling system metals (cast iron, aluminum alloys, and copper alloys such as brass) from corrosion

Water Quality

Water quality is important to the performance of the cooling system. Deionized or demineralized water is recommended for mixing with ethylene glycol and propylene glycol base engine coolant concentrate.

Coolant Drain Intervals

Drain and flush the cooling system and refill with fresh coolant at the indicated interval, which varies with the coolant used.

When COOL-GARD II or COOL-GARD II PG is used, the drain interval is 6 years or 6000 hours of operation.

If a coolant other than COOL-GARD II or COOL-GARD II PG is used, reduce the drain interval to 2 years or 2000 hours of operation.[2]

IMPORTANT: Do not use cooling system sealing additives or antifreeze that contains sealing additives.

Do not mix ethylene glycol and propylene glycol base coolants.

Do not use coolants that contain nitrites.

DX,COOL3-19-13JAN18

[2] Coolant analysis may extend the service interval of other "Coolants" to a maximum not to exceed the interval of Cool-Gard II coolants. Coolant analysis means taking a series of coolant samples at 1000 hour increments beyond the normal service interval until either the data indicate the end of useful coolant life or the maximum service interval of Cool-Gard II is reached.

John Deere COOL-GARD™ II Coolant Extender

Some coolant additives gradually deplete during engine operation. For COOL-GARD™ II pre-mix and COOL-GARD II Concentrate, replenish coolant additives between drain intervals by adding COOL-GARD II Coolant Extender.

COOL-GARD II Coolant Extender should not be added unless indicated by COOL-GARD II Test Strips. These test strips provide a simple, effective method to check the freeze point, additive levels, and pH of your engine coolant.

Test the coolant solution at intervals of 12 months and whenever excessive coolant is lost through leaks or overheating.

IMPORTANT: Do not use COOL-GARD II Test Strips with COOL-GARD II PG.

COOL-GARD II Coolant Extender is a chemically matched additive system for use with all COOL-GARD II coolants. COOL-GARD II Coolant Extender is not intended for use with nitrite-containing coolants.

IMPORTANT: Do not add a supplemental coolant additive when the cooling system is drained and refilled with any of the following:

- **John Deere COOL-GARD II**
- **John Deere COOL-GARD II PG**

The use of non-recommended supplemental coolant additives can result in additive drop-out, gelation of the coolant, or corrosion of cooling system components.

Add the recommended concentration of COOL-GARD II Coolant Extender. DO NOT add more than the recommended amount.

DX,COOL16-19-15MAY13

Operating in Warm Temperature Climates

John Deere engines are designed to operate using recommended engine coolants.

Always use a recommended engine coolant, even when operating in geographical areas where freeze protection is not required.

IMPORTANT: Water may be used as coolant *in emergency situations only.*

Foaming, hot surface aluminum and iron corrosion, scaling, and cavitation occur when water is used as the coolant, even when coolant conditioners are added.

Drain cooling system and refill with recommended engine coolant as soon as possible.

DX,COOL6-19-15MAY13

Water Quality for Mixing with Coolant Concentrate

Engine coolants are a combination of three chemical components: ethylene glycol (EG) or propylene glycol (PG) antifreeze, inhibiting coolant additives, and quality water.

Water quality is important to the performance of the cooling system. Deionized or demineralized water is recommended for mixing with ethylene glycol and propylene glycol base engine coolant concentrate.

All water used in the cooling system should meet the following minimum specifications for quality:

Chlorides	<40 mg/L
Sulfates	<100 mg/L
Total solids	<340 mg/L
Total dissolved I hardness	<170 mg/L
pH	5.5—9.0

IMPORTANT: Do not use bottled drinking water because it often contains higher concentrations of total dissolved solids.

Freeze Protection

The relative concentrations of glycol and water in the engine coolant determine its freeze protection limit.

Ethylene Glycol	Freeze Protection Limit
40%	-24°C (-12°F)
50%	-37°C (-34°F)
60%	-52°C (-62°F)
Propylene Glycol	**Freeze Protection Limit**
40%	-21°C (-6°F)
50%	-33°C (-27°F)
60%	-49°C (-56°F)

DO NOT use a coolant-water mixture greater than 60% ethylene glycol or 60% propylene glycol.

DX,COOL19-19-13JAN18

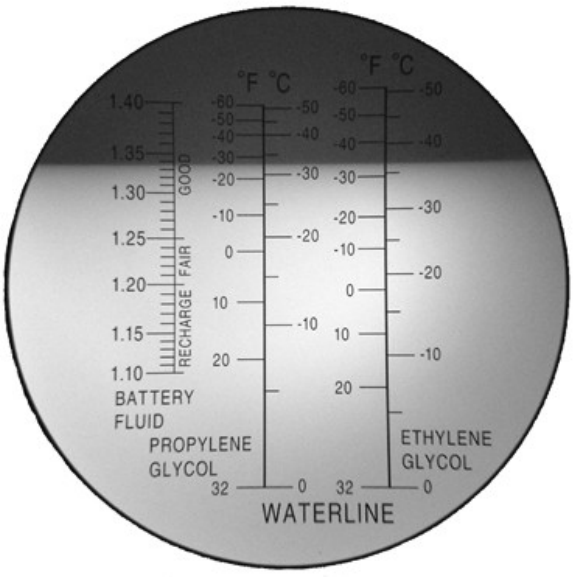
COOL-GARD is a trademark of Deere & Company

Testing Coolant Freeze Point



TS1732—UN—04SEP13

SERVICEGARD™ Part Number 75240



TS1733—UN—04SEP13

Image with a Drop of 50/50 Coolant Placed on the Refractometer Window

The use of a handheld coolant refractometer is the quickest, easiest, and most accurate method to determine coolant freeze point. This method is more accurate than a test strip or a float-type hydrometer which can produce poor results.

A coolant refractometer is available through your John Deere dealer under the SERVICEGARD™ tool program. Part number 75240 provides an economical solution to accurate freeze point determination in the field.

To use this tool:

1. Allow cooling system to cool to ambient temperatures.
2. Open radiator cap to expose coolant.
3. With the included dropper, collect a small coolant sample.
4. Open the lid of the refractometer, place one drop of coolant on the window and close the lid.
5. Look through the eyepiece and focus as necessary.
6. Record the listed freeze point for the type of coolant (ethylene glycol coolant or propylene glycol) being tested.

DX,COOL,TEST-19-13JUN13

SERVICEGARD is a trademark of Deere & Company

Diesel Engine Break-In Oil — Non-Emissions Certified and Certified Tier 1, Tier 2, Tier 3, Stage I, Stage II, and Stage III

New engines are filled at the factory with either John Deere Break-In™ or John Deere Break-In Plus™ Engine Oil. During the break-in period, add John Deere Break-In™ or Break-In Plus™ Engine Oil, respectively, as needed to maintain the specified oil level.

Operate the engine under various conditions, particularly heavy loads with minimal idling, to help seat engine components properly.

If John Deere Break-In™ Engine Oil is used during the initial operation of a new or rebuilt engine, change the oil and filter at a maximum of 100 hours.

If John Deere Break-In Plus™ Engine Oil is used, change the oil and filter at a minimum of 100 hours and a maximum equal to the interval specified for John Deere Plus-50™ II or Plus-50™ oil.

After engine overhaul, fill the engine with either John Deere Break-In™ or Break-In Plus™ Engine Oil.

If John Deere Break-In™ or Break-In Plus™ Engine Oil is not available, use an SAE 10W-30 viscosity grade diesel engine oil meeting one of the following and change the oil and filter at a maximum of 100 hours of operation:

- API Service Classification CE
- API Service Classification CD
- API Service Classification CC
- ACEA Oil Sequence E2
- ACEA Oil Sequence E1

IMPORTANT: Do not use Plus-50™ II, Plus-50™, or engine oils meeting any of the following for the initial break-in of a new or rebuilt engine:

API CK-4	**ACEA E9**
API CJ-4	**ACEA E7**
API CI-4 PLUS	**ACEA E6**

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Break-In Plus is a trademark of Deere & Company
Plus-50 is a trademark of Deere & Company.

API CI-4	**ACEA E5**
API CH-4	**ACEA E4**
API CG-4	**ACEA E3**
API CF-4	
API CF-2	
API CF	

These oils do not allow the engine to break in properly.

John Deere Break-In Plus™ Engine Oil can be used for all John Deere diesel engines at all emission certification levels.

After the break-in period, use John Deere Plus-50™ II, John Deere Plus-50™, or other diesel engine oil as recommended in this manual.

DX,ENOIL4-19-02NOV16

John Deere Break-In Plus™ Engine Oil — Interim Tier 4, Final Tier 4, Stage IIIB, Stage IV, and Stage V

New engines are filled at the factory with John Deere Break-In Plus™ Engine Oil. During the break-in period, add John Deere Break-In Plus™ Engine Oil, as needed to maintain the specified oil level.

Operate the engine under various conditions, particularly heavy loads with minimal idling, to help seat engine components properly.

During the initial operation of a new or rebuilt engine, change the oil and filter between a minimum of 100 hours and maximum equal to the interval specified for John Deere Plus-50™ II oil.

After engine overhaul, fill the engine with John Deere Break-In Plus™ Engine Oil.

If John Deere Break-In Plus™ Engine Oil is not available, use an SAE 10W-30 viscosity grade diesel engine oil meeting one of the following:

- API Service Category CK-4
- API Service Category CJ-4
- ACEA Oil Sequence E9
- ACEA Oil Sequence E6

If one of these oils is used during the initial operation of a new or rebuilt engine, change the oil and filter between a minimum of 100 hours and a maximum of 250 hours.

IMPORTANT: Do not use any other engine oils during the initial break-in of a new or rebuilt engine.

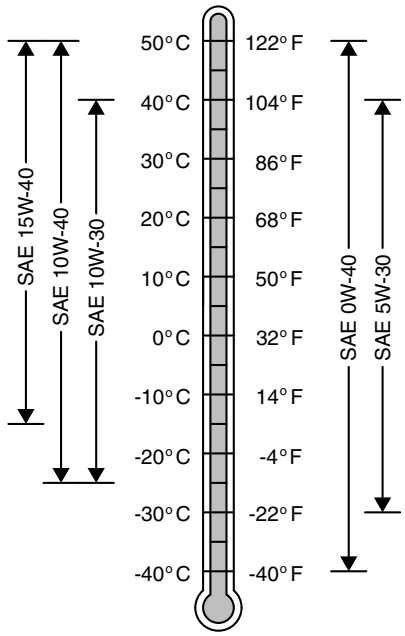
John Deere Break-In Plus™ Engine Oil can be used for all John Deere diesel engines at all emission certification levels.

After the break-in period, use John Deere Plus-50™ II or other diesel engine oil as recommended in this manual.

DX,ENOIL16-19-13JAN18

Diesel Engine Oil — Tier 2 and Stage II

Failure to follow applicable oil standards and drain intervals can result in severe engine damage that might not be covered under warranty. Warranties, including the emissions warranty, are not conditioned on the use of John Deere oils, parts, or service.



TS1689—UN—18JUL07

Oil Viscosities for Air Temperature Ranges

Use oil viscosity based on the expected air temperature range during the period between oil changes.

John Deere Plus-50™ II oil is preferred.

John Deere Plus-50™ is also recommended.

Other oils may be used if they meet one or more of the following standards:

- John Deere Torq-Gard™
- API Service Category CK-4
- API Service Category CJ-4
- API Service Category CI-4 PLUS
- API Service Category CI-4
- API Service Category CH-4
- ACEA Oil Sequence E9
- ACEA Oil Sequence E7

Break-In Plus is a trademark of Deere & Company

Plus-50 is a trademark of Deere & Company.
Torq-Gard is a trademark of Deere & Company

- ACEA Oil Sequence E6
- ACEA Oil Sequence E5
- ACEA Oil Sequence E4

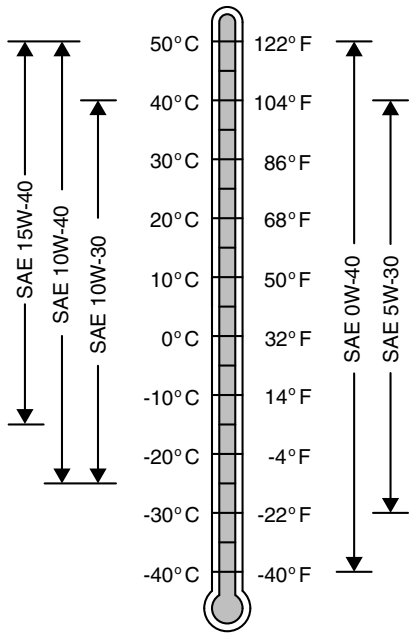
Multi-viscosity diesel engine oils are preferred.

Diesel fuel quality and fuel sulfur content must comply with all existing emissions regulations for the area in which the engine operates.

DO NOT use diesel fuel with sulfur content greater than 10 000 mg/kg (10 000 ppm).

DX,ENOIL7-19-13JAN18

Diesel Engine Oil — Interim Tier 4, Final Tier 4, Stage IIIB, Stage IV, and Stage V



TS1691—UN—18JUL07

Oil Viscosities for Air Temperature Ranges

Failure to follow applicable oil standards and drain intervals can result in severe engine damage that might not be covered under warranty. Warranties, including the emissions warranty, are not conditioned on the use of John Deere oils, parts, or service.

Use oil viscosity based on the expected air temperature range during the period between oil changes.

John Deere Plus-50™ II is the recommended engine oil.

Extended service intervals may apply when John Deere Plus-50™ II engine oil is used. Refer to the engine oil drain interval table and consult your John Deere dealer for more information.

If John Deere Plus-50™ II engine oil is not available, engine oil meeting one or more of the following may be used:

- API Service Category CK-4
- API Service Category CJ-4
- ACEA Oil Sequence E9
- ACEA Oil Sequence E6

DO NOT use engine oil containing more than 1.0% sulfated ash, 0.12% phosphorus, or 0.4% sulfur.

Multi-viscosity diesel engine oils are preferred.

Diesel fuel quality and fuel sulfur content must comply with all existing emissions regulations for the area in which the engine operates.

IMPORTANT: Use only ultra low sulfur diesel (ULSD) fuel with a maximum sulfur content of 15 mg/kg (15 ppm).

DX,ENOIL14-19-14JAN18

Diesel Engine Oil Service Interval for Operation at High Altitude

To avoid excessive oil degradation and potential engine damage, reduce oil and filter service intervals to 50% of the original recommended values when operating engines at altitudes above **1675 m (5500 ft)**.

Oil analysis may allow longer service intervals.

Use only approved oil types.

Example of Original Hours	Corresponding High Altitude Hours
125	60
150	75
175	85
200	100
250	125
275	135
300	150
350	175
375	185
400	200
500	250

DX,ENOIL,SERV,HIALT-19-11NOV14

Engine Oil and Filter Service Intervals — Tier 2 and Stage II Engines

Recommended oil and filter service intervals are based on a combination of oil pan capacity, type of engine oil and filter used, and sulfur content of the diesel fuel.

Plus-50 is a trademark of Deere & Company

Actual service intervals also depend on operation and maintenance practices.

Use oil analysis to evaluate the condition of the oil and to aid in selection of the proper oil and filter service interval. Contact your John Deere dealer or other qualified service provider for more information on engine oil analysis.

Change the oil and oil filter at least once every 12 months even if the hours of operation are fewer than the otherwise recommended service interval.

Diesel fuel sulfur content affects engine oil and filter service intervals.

- Use of diesel fuel with sulfur content less than 2000 mg/kg (2000 ppm) is RECOMMENDED
- Use of diesel fuel with sulfur content 2000—5000 mg/kg (2000—5000 ppm) REDUCES the oil and filter change interval
- BEFORE using diesel fuel with sulfur content greater than 5000 mg/kg (5000 ppm), contact your John Deere dealer or qualified service provider

IMPORTANT: To avoid engine damage:

- **Reduce oil and filter service intervals by 50% when using biodiesel blends greater than B20. Oil analysis may allow longer service intervals**
- **Use only approved oil types**

Approved Oil Types:

- “Plus-50 Oils” include John Deere Plus-50™ II and John Deere Plus-50™
- “Other Oils” include John Deere Torq-Gard™, API CK-4, API CJ-4, API CI-4 PLUS, API CI-4, API CH-4, ACEA E9, ACEA E7, ACEA E6, ACEA E5, and ACEA E4

Engine Oil and Filter Service Intervals	
Fuel Sulfur	Less than 2000 mg/kg (2000 ppm)
Plus-50 Oils	375 hours
Other Oils	250 hours
Fuel Sulfur	2000—5000 mg/kg (2000—5000 ppm)
Plus-50 Oils	275 hours
Other Oils	150 hours
Fuel Sulfur	5000—10 000 mg/kg (5000—10 000 ppm)
Plus-50 Oils	187 hours (See John Deere dealer)
Other Oils	125 hours (See John Deere dealer)
Oil analysis may extend the service interval of “Other Oils”, to a maximum not to exceed the interval for Plus-50 Oils. Oil analysis means taking a series of oil samples at 50-hour increments beyond the normal service interval until either the data indicates the end of useful oil life or the maximum service interval of John Deere Plus-50 oils is reached.	

Plus-50 is a trademark of Deere & Company
Torq-Gard is a trademark of Deere & Company

DX,ENOIL12,T2,STD-19-13JAN18

Engine Oil and Filter Service Intervals — Interim Tier 4, Final Tier 4, Stage IIIB, Stage IV, and Stage V Engines

Failure to follow applicable oil standards and drain intervals can result in severe engine damage that might not be covered under warranty. Warranties, including the emissions warranty, are not conditioned on the use of John Deere oils, parts, or service.

Recommended oil and filter service intervals are based on a combination of oil pan capacity, type of engine oil and filter used, and sulfur content of the diesel fuel. Actual service intervals also depend on operation and maintenance practices.

Approved Oil Types

- John Deere Plus-50™ II
- “Other Oils” include API CK-4, API CJ-4, ACEA E9, and ACEA E6

Use oil analysis to evaluate the condition of the oil and to aid in selection of the proper oil and filter service interval. Contact your John Deere dealer or other qualified service provider for more information on engine oil analysis.

Change the oil and oil filter at least once every 12 months even if the hours of operation are fewer than the otherwise recommended service interval.

Diesel fuel sulfur content affects engine oil and filter service intervals. Higher fuel sulfur levels reduce oil and filter service intervals.

Use of diesel fuel with sulfur content less than 15 mg/kg (15 ppm) is REQUIRED.

Engine Oil and Filter Service Intervals	
John Deere Plus-50™ II	400 hours
Other Oils	250 hours
Oil analysis may extend the service interval of “Other Oils” to a maximum not to exceed the interval of Plus-50™ II oils. Oil analysis means taking a series of oil samples at 50-hour increments beyond the normal service interval until either the data indicates the end of useful oil life or the maximum service interval of John Deere Plus-50 II oils is reached.	

Engine operation at high altitude decreases oil change intervals. See Diesel Engine Oil Service Interval for Operation at High Altitude for additional information.

IMPORTANT: To avoid engine damage:

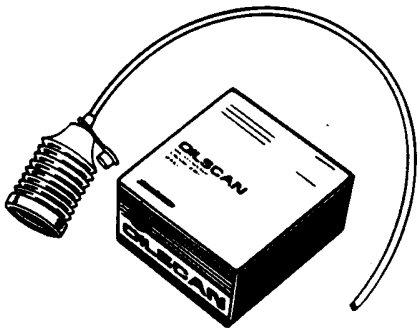
- **Reduce oil and filter service intervals by 50%**

when using biodiesel blends greater than B20. Oil analysis may allow longer service intervals

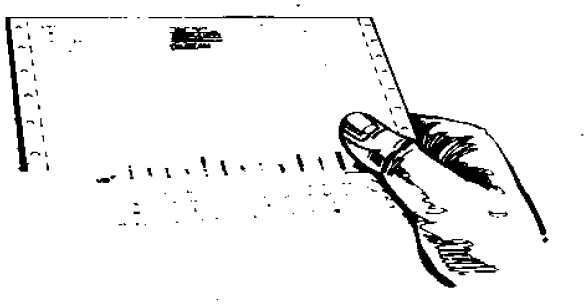
- **Use only approved oil types**

OUO6075,0004926-19-22MAR18

Oilscan™ and CoolScan™



T6828AB—UN—15JUN89



T6829AB—UN—26AUG11

Oilscan™ and CoolScan™ are John Deere sampling programs to help you monitor machine performance and identify potential problems before they cause serious damage.

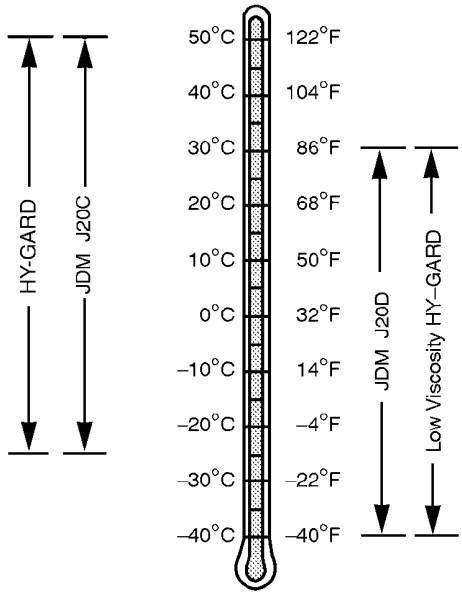
Oil and coolant samples should be taken from each system before its recommended change interval.

Check with your John Deere dealer for the availability of Oilscan™ and CoolScan™ kits.

DX,OILSCAN-19-13SEP11

ProDrive™ Transmission, CommandTouch™ Multi-Speed Feeder House Drive, Hydrostatic Drive System, Main Hydraulic System, and Main Engine Gear Case Oils

NOTE: Machines come factory filled with John Deere Hy-Gard™.



ZX1030848—UN—15SEP02

Only the following oils are approved:

- John Deere Hy-Gard™
- Oils meeting John Deere Standard JDM J20C

NOTE: For usage in extremely low temperatures only the following may be substituted:

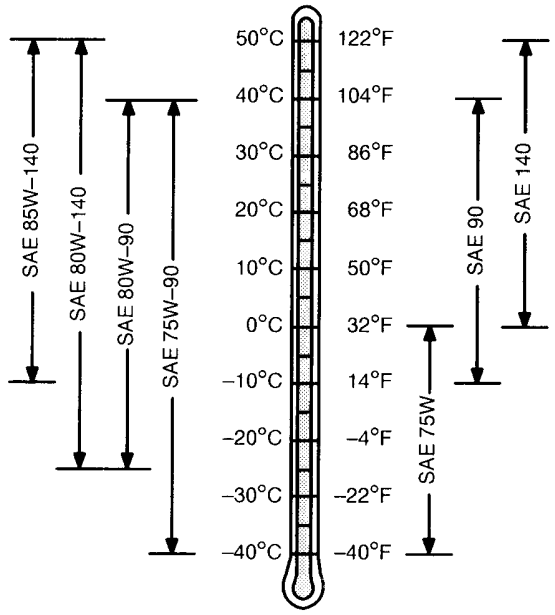
- *Low Viscosity Hy-Gard™*
- *Oils meeting John Deere Standard JDM J20D*

OUO6075,00046CB-19-30MAR17

Oilscan is a trademark of Deere & Company
CoolScan is a trademark of Deere & Company

Hy-Gard is a trademark of Deere & Company

Transmission (Mechanical Shift and Push-Button Shift), Final Drives, Loading Auger, Primary Countershaft, and Two-Speed Separator Drive Gear Case Oils



TS1653—UN—14MAR96

Use oil viscosity based on the expected air temperature range during the period between oil changes.

The following oils are preferred:

- John Deere GL-5 Gear Lubricant
- John Deere EXTREME-GARD™

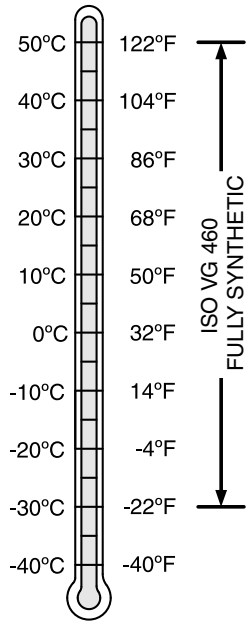
Other oils may be used if they meet the following:

- API Service Category GL-5

Product Number	Description	Size
TY6252	80W/90 GL5 Gear Lube	16 kg pail (35 lb pail)
TY6296	80W/90 GL5 Gear Lube	0.9 L can (1 qt can)
TY6256	85W/140 GL5 Gear Lube	16 kg pail (35 lb pail)
TY6345	85W/140 GL5 Gear Lube	0.9 L can (1 qt can)

OUO6075,0004924-19-21MAR18

Feeder House Reverser Gear Case



H87702—UN—25JUL07

Oil Viscosities for Air Temperature Ranges

The following Gear Oil is recommended:

- John Deere ISO VG 460 Fully Synthetic

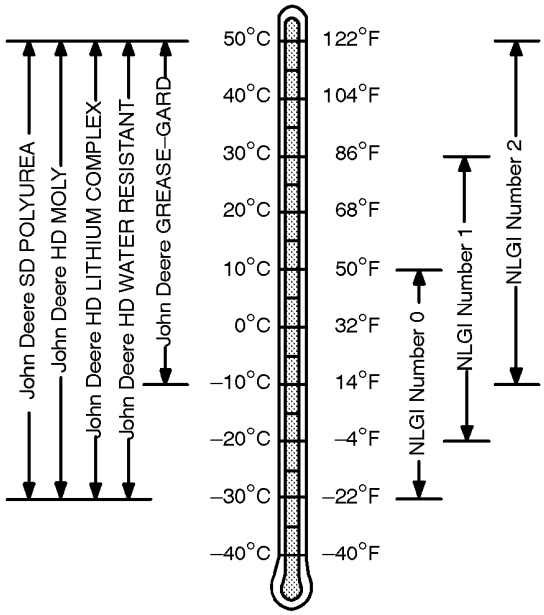
Other gear oils may be used if they meet all of the following specifications:

- ISO VG 460 Gear Oil per ISO12925-1 type CKD
- ANSI/AGMA 9005-E02 (EP)
- US Steel 224
- DIN 51517-3 (CLP)

OUO6075,00046CD-19-28MAR17

EXTREME-GARD is a trademark of Deere & Company.

Grease



TS1667—UN—30JUN99

Use grease based on NLGI consistency numbers and the expected air temperature range during the service interval.

The following grease is recommended:

- John Deere SD POLYUREA GREASE (TY6341)

Other greases may be used if they meet the following:

- NLGI Performance Classification GC-LB

IMPORTANT: John Deere SD POLYUREA GREASE (TY6341) is the required grease for the feeder house torque sensing cams.

Some types of grease thicken and are not compatible with others.

If grease fitting is missing, replace immediately. Clean fittings thoroughly before using grease gun.

Product Number	Description
TY6341	Multi-Purpose, High-Temperature Extreme Pressure Grease, especially effective in rolling contact applications.

HX,AG,SF7350-19-26OCT99

Brake Fluid (If Equipped)

IMPORTANT: When removing reservoir cap, keep contaminants from entering the reservoir.

Fluid should be 6 mm (1/4 in.) from top.

Fill reservoir with SAE J1703d, DOT-3 or DOT-4 hydraulic brake fluid.

OUO6075,0000AE9-19-10DEC10

Oil Filters

Filtration of oils is critically important for proper operation and lubrication. John Deere brand oil filters have been designed and produced specifically for John Deere applications.

John Deere filters adhere to engineering specifications for quality of the filter media, filter efficiency rating, strength of the bond between the filter media and the element end cap, fatigue life of the canister (if applicable), and pressure capability of the filter seal. Non-John Deere branded oil filters might not meet these key John Deere specifications.

Always change oil filters regularly as specified in this manual.

DX,FILT1-19-11APR11

Fuel Filters

The importance of fuel filtration cannot be overemphasized with modern fuel systems. The combination of increasingly restrictive emission regulations and more efficient engines requires fuel system to operate at much higher pressures. Higher pressures can only be achieved using fuel injection components with very close tolerances. These close manufacturing tolerances have significantly reduced capacities for debris and water.

John Deere brand fuel filters have been designed and produced specifically for John Deere engines.

To protect the engine from debris and water, always change engine fuel filters as specified in this manual.

DX,FILT2-19-14APR11

Alternative and Synthetic Lubricants

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual.

Some John Deere brand coolants and lubricants may not be available in your location.

Consult your John Deere dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements as shown in this manual.

The temperature limits and service intervals shown in this manual apply to John Deere branded fluids or fluids that have been tested and/or approved for use in John Deere equipment.

Re-refined base stock products may be used if the finished lubricant meets the performance requirements.

DX,ALTER-19-13JAN18

Lubricant Storage

Your equipment can operate at top efficiency only when clean lubricants are used.

Use clean containers to handle all lubricants.

Store lubricants and containers in an area protected from dust, moisture, and other contamination. Store containers on their side to avoid water and dirt accumulation.

Make certain that all containers are properly marked to identify their contents.

Properly dispose of all old containers and any residual lubricant they may contain.

DX,LUBST-19-11APR11

Mixing of Lubricants

In general, avoid mixing different brands or types of oil. Oil manufacturers blend additives in their oils to meet certain specifications and performance requirements.

Mixing different oils can interfere with the proper functioning of these additives and degrade lubricant performance.

Consult your John Deere dealer to obtain specific information and recommendations.

DX,LUBMIX-19-18MAR96

Service Interval—Setup or Clearing

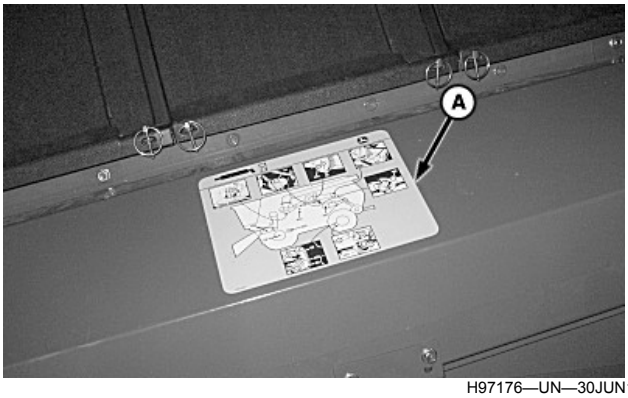
CAUTION: To prevent injury, never lubricate or service machine, header, or engine while it is running. Shut OFF engine, set park brake and remove key.

IMPORTANT: Service times are for average conditions. Service more often if machine is used in extreme conditions.

See Calibrations Application Help or Operator's Station Help for further information on setup or clearing service intervals.

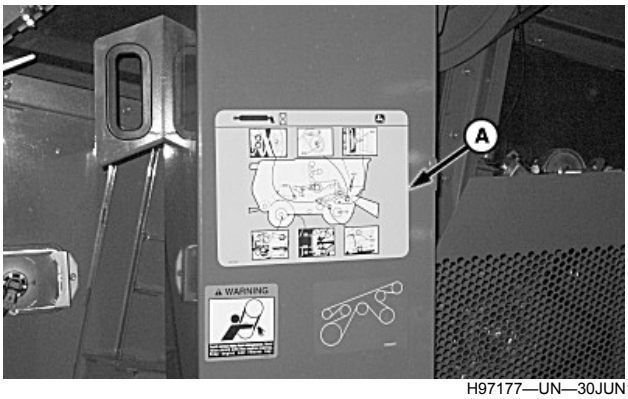
OUO6075,0004552-19-20DEC16

Lubrication Decal Locations



H97176—UN—30JUN10

Left-Hand Lubrication Decal



H97177—UN—30JUN10

Right-Hand Lubrication Decal

A—Lubrication Decals

IMPORTANT: HillMaster Machines: Avoid crushing injuries. Always completely lower machine leveling system before getting underneath for service, adjustments, or repairs. Shut OFF engine, set park brake and remove key.

Lubrication decals (A) show the different locations of grease points around the machine. Follow lubrication times provided on decals and refer to hour intervals listed in this section for further information.

Bearing failures or overheating can result in a fire. To reduce bearing failures or overheating, follow hour intervals listed in this section for further information.

Crop material and other debris may accumulate around bearings and bearing covers. Inspect and clean these areas periodically throughout the harvest day.

OUO6075,00044AF-19-14NOV16

Hydraulic Hose Replacement

Hydraulic hoses should be inspected frequently for leakage, kinking, cuts, cracks, abrasion, corrosion, exposed wire braid, or any other signs of wear or damage. Worn or damaged hose assemblies can fail during use and should be replaced immediately. See your John Deere dealer for replacement hoses.

CAUTION: If incorrectly rated hose is used, machine damage, injury or death could occur.

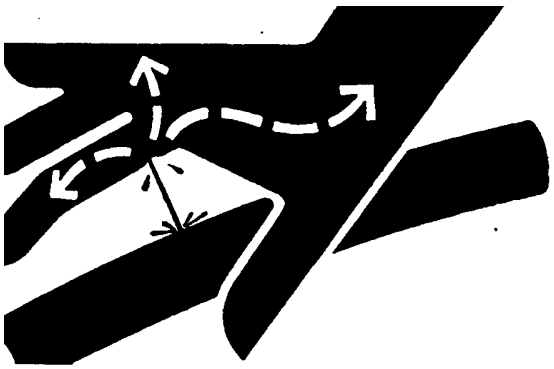
If hoses are to be fabricated, ensure that hoses are the same rating as one being replaced. See your John Deere dealer for correct hose rating replacements.

Incorrect hose length or routing can increase chance of hose wear or damage. Use old hose as guide for length and hose routing.

Incorrect fittings can damage mating parts or cause leaks. Make sure to use steel fittings approved for use with hose manufacture. Use correct size and thread type as replaced hose.

OUO6075,00043CC-19-12OCT16

Hydraulic System Cleanliness



X9811—UN—23AUG88

CAUTION: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene can result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.

Cleanliness

If hydraulic system should be disconnected for service, protect ends of hoses, tubing, and ports of components from contamination with clean, lint-free towels or clean plastic bags.

Before installing any replacement hose, flush the inside with unused diesel fuel or unused commercial petroleum cleaning solvent for 10 seconds minimum. Do not use water, water soluble cleaners, or compressed air.

IMPORTANT: To prevent hydraulic system contamination, clean the hydraulic component surfaces with an electrical contact cleaner.

Remove cover from multicoupler and attach to docking station on header. When coupling to header clean multicoupler surfaces to remove dirt and debris.

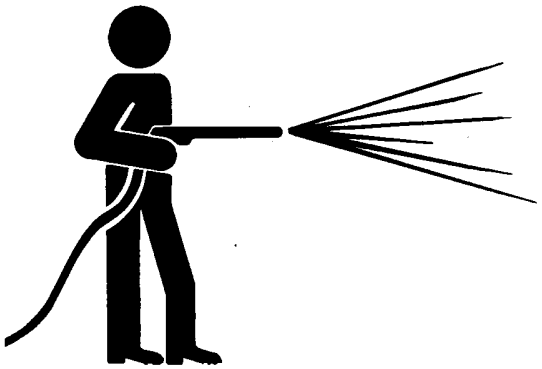
OUO6075,0004897-19-12APR18

Accumulator Pressure

NOTE: Due to temperature differences, accumulator pressures can vary significantly and will need to be adjusted. See your John Deere dealer for further information.

OUO6075,00043CE-19-12OCT16

Using High-Pressure Washers



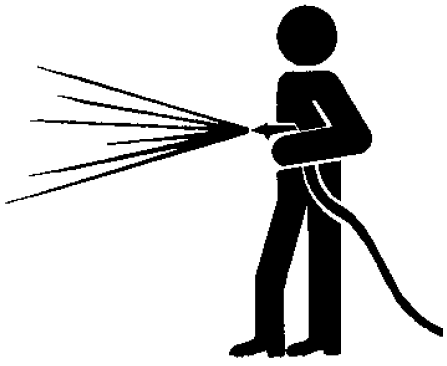
T6642EJ—UN—18OCT88

IMPORTANT: High-pressure washers are an effective means of cleaning the machine. To avoid damage to the machine, do not go closer to 1 m (39 in) and spray at an angle between 45—90 degrees when cleaning sealing surfaces, seals, and decals. Maximum pressure must not exceed 12 000 kPa (120 bar) (1740 psi).

Do not, under any circumstances, spray, or wash components (example; engine) with cold water when hot. Do not use rotary nozzles or water at temperatures over 50°C (122°F), and do not aim at seals. Always keep the water jet moving. Reduce pressure when using high-pressure washer to clean cooling units, bearings, and electronic/electrical equipment. Directing pressurized water at electronic/electrical components or connectors, bearings and hydraulics seals, fuel injection pumps or other sensitive parts and components may cause product malfunctions. Follow the instructions in the high-pressure washer operator's manual and manuals of attached equipment.

OUO6075,0004977-19-17MAY18

Using Pressurized Air



RW56455—UN—30JUN97

IMPORTANT: Directing pressurized air at electronic/ electrical components or connectors, may cause buildup of static electricity and product malfunctions.

OUO6075,0004976-19-17MAY18

Lubrication Symbols

CAUTION: Never lubricate or service corn head while machine engine is running.

Lubricate with John Deere Multipurpose SD Polyurea Grease High Temperature/Extreme Pressure lubricant or an equal SAE Multipurpose High Temperature Grease with Extreme Pressure (EP) performance at hours shown on the symbol.

Lubricate with John Deere SAE 30 oil or heavier oil at hourly intervals indicated on the symbols.

IMPORTANT: Recommended service intervals are for average conditions. Service MORE OFTEN if machine is operated under adverse conditions.

OUO6075,0000852-19-14MAR07

Service Your Machine at Specified Intervals

Perform lubrication, checks, and adjustments at intervals specified in the following tables. Perform service on items at multiples of the original requirement. For example, at 1000 operating hours also service those items listed under every 500 operating hours, every 250 operating hours, every 100 operating hours, and every 25 operating hours or daily.

SS43267,00006D2-19-12AUG15

Important Considerations

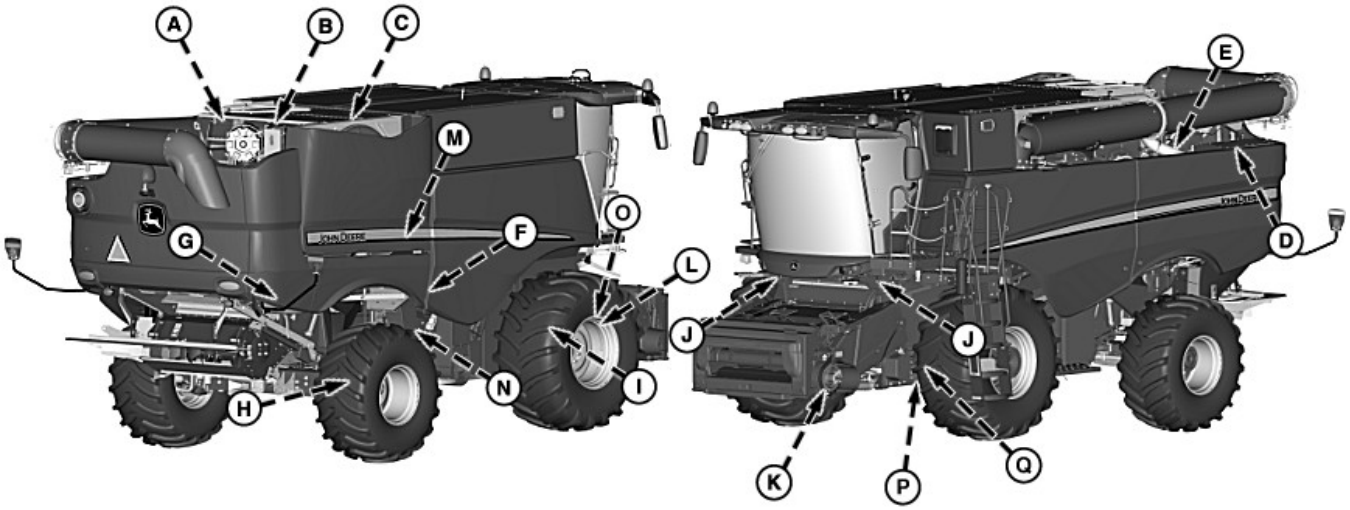
IMPORTANT: Clean fittings before and after applying grease. Replace any damaged or missing fittings immediately.

Lubrication and maintenance intervals are listed in this section.

Locations and procedures are listed in the section for that interval.

OUO6075,00045A8-19-25JAN17

Service Interval Chart—Every 10 Hours



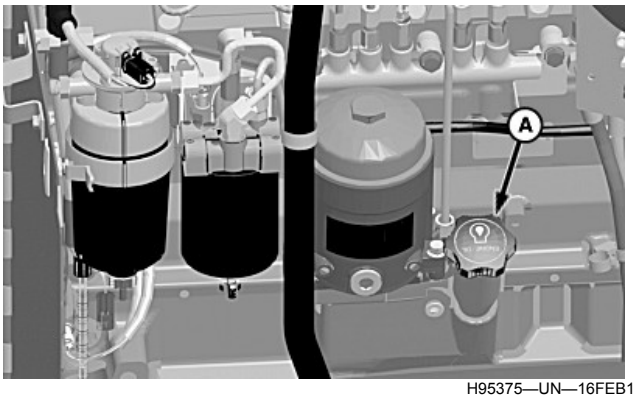
H123312—UN—07FEB18

Legend	Service	Every 10 Hours
A	Check Engine Oil Level	•
B	Check Engine Coolant Level	•
C	Clean Rotary Screen, Oil Cooler, Condenser, Radiator, and Charge Air Cooler	•
D	Check Hydrostatic/Hydraulic Oil	•
E	Check Main Engine Gear Case Oil	•
F	Drain Water from Air Compressor Reservoir (If Equipped)	•
G	Inspect Fuel Precleaner Filter	•
H	Grease Two-Speed Four-Wheel Drive Motor Pivots Grease Two-Wheel Drive Heavy-Duty and Extra Heavy-Duty Axle Spindle Bearings/Pivot Pins (Muddy Conditions)	•
I	Grease Final Drive Outer Bearings (Muddy Conditions)	•
J	Clean Air Conditioner Drain Hose	•
K	Grease Variable Speed Feeder House Reverser Drive Gear Case (S760 and S770 Machines) (Severe Conditions)	•
L	Check Stone Trap	•
M	Grease Tailings Elevator Slip Clutch (Tough Crop Conditions) (S780, S785, and S790 Machines)	•
N	Tailings System Camera (If Equipped)	•
O	Central Lube Bank (If Equipped) (HillMaster™ Machines) • Grease Master Cylinder Pin • Grease Leveling Cylinder Barrel • Grease Final Drive Couplers	•
P	Final Drive Pivot (HillMaster™ Machines)	•
Q	Without Central Lube Bank (HillMaster™ Machines) • Grease Master Cylinder Pin • Grease Leveling Cylinder Barrel • Grease Final Drive Couplers	•

HillMaster is a trademark of Deere & Company

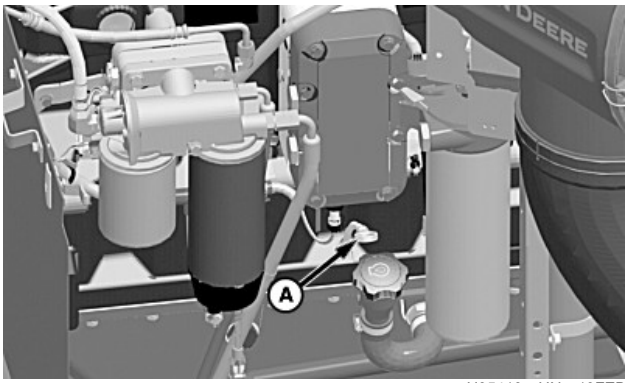
OUO6075,000488D-19-31MAY18

Engine Oil Level



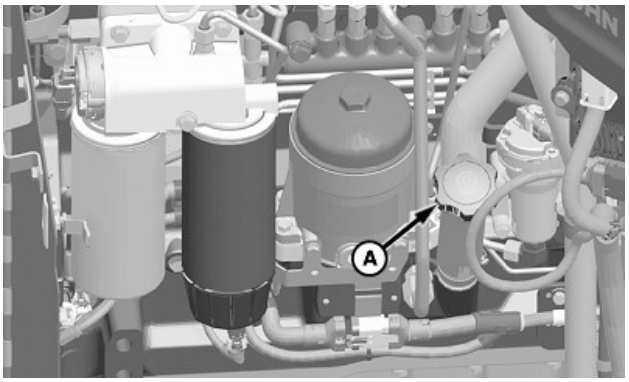
H95375—UN—16FEB10

Tier 2/Stage II (Style A)



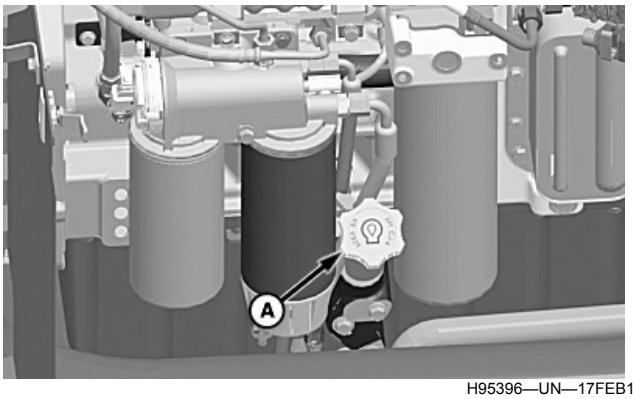
H95419—UN—19FEB10

Tier 2/Stage II (Style B)



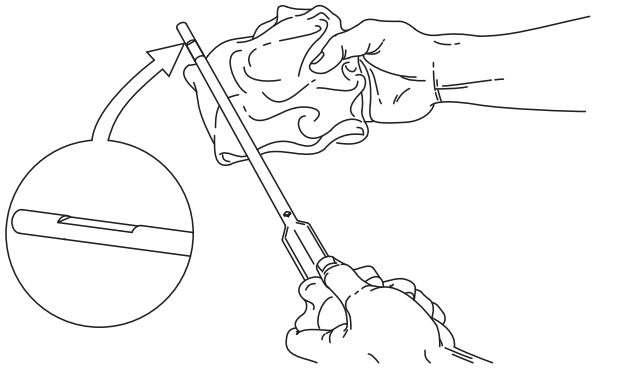
H95306—UN—11FEB10

Final Tier 4/Stage V (Style A)



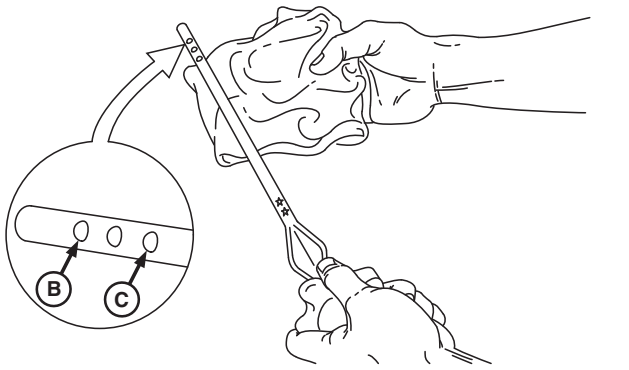
H95396—UN—17FEB10

Final Tier 4/Stage V (Style B)



H112961—UN—17FEB15

Tier 2/Stage II



H113142—UN—11MAR15

Final Tier 4/Stage V

A—Dipstick
B—ADD Mark
C—FULL Mark

IMPORTANT: It is vital to maintain engine oil at correct levels to ensure a long service life. Check oil level with the machine parked on level ground.

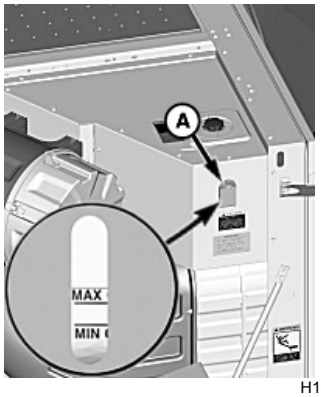
NOTE: Verify that dipstick is screwed or pushed completely into housing before removing to check oil level.

Check engine oil level with dipstick (A) daily. Do not operate engine when oil level is below "ADD" mark on dipstick.

Remove dipstick and check oil level. Oil level should be between "ADD" and top of cross-hatch area on dipstick. If oil level is below "ADD" mark, add oil as needed. See Fuel and Lubricants section for oil recommendations.

OUO6075,00047E7-19-13NOV17

Engine Coolant



H115495—UN—19AUG15

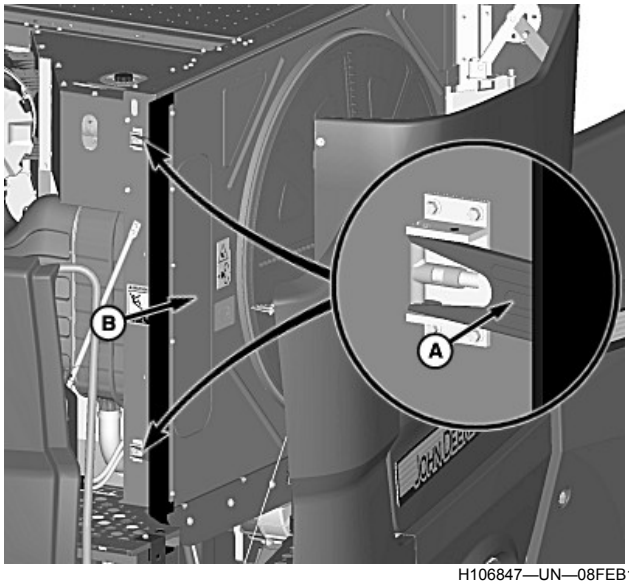
A—Surge Tank

Coolant level must be between "Max Cold" and "Min Cold" lines. Add coolant as needed if coolant is below "Min Cold" line.

Check engine coolant level in the surge tank (A) with engine cold. Level must be up to "Max Cold" line.

OUO6075,00043FB-19-21DEC16

Rotary Screen, Oil Cooler, Condenser, Radiator, and Charge Air Cooler



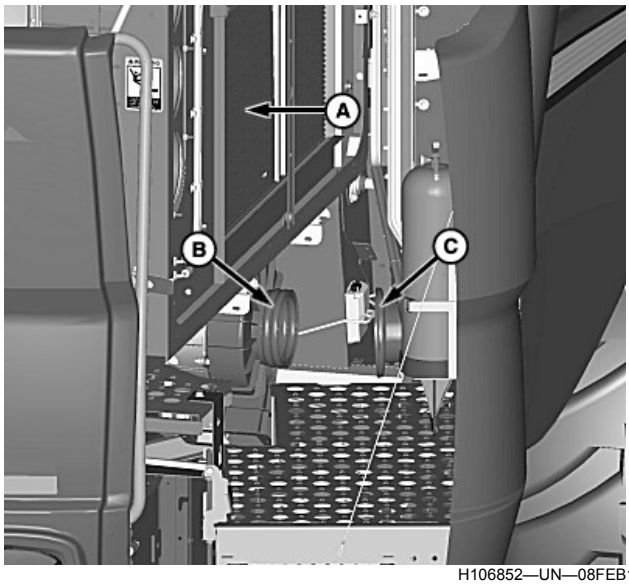
H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

CAUTION: Shut OFF engine, set park brake and remove key.

Pull latches (A) and open rotary screen door (B).

Tier 2/Stage II (Style A)



H106852—UN—08FEB13

A—Condenser
B—Vacuum Duct
C—Transfer Duct

NOTE: Clean areas out with compressed air, blowing from inside out.

Check rotary screen daily to be certain it turns freely.

Clean rotary screen with a brush and compressed air when dirt and chaff build up on or behind screen.

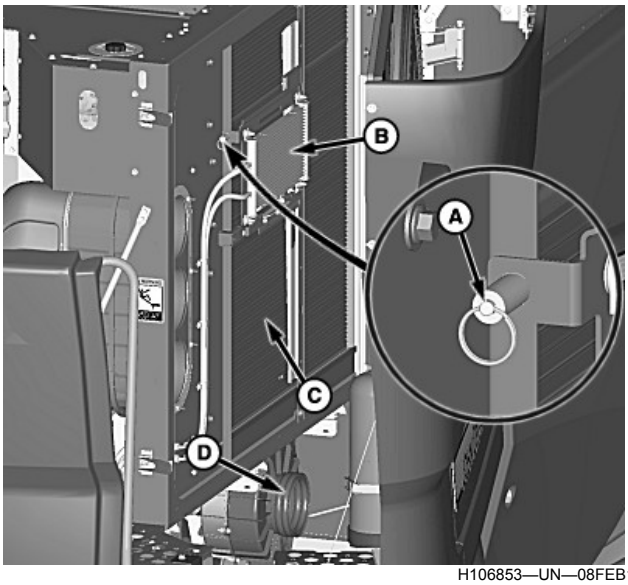
Clean condenser (A), oil cooler, charge air cooler, and radiator.

Clean out dirt from the lower vacuum duct (B) and transfer duct (C).

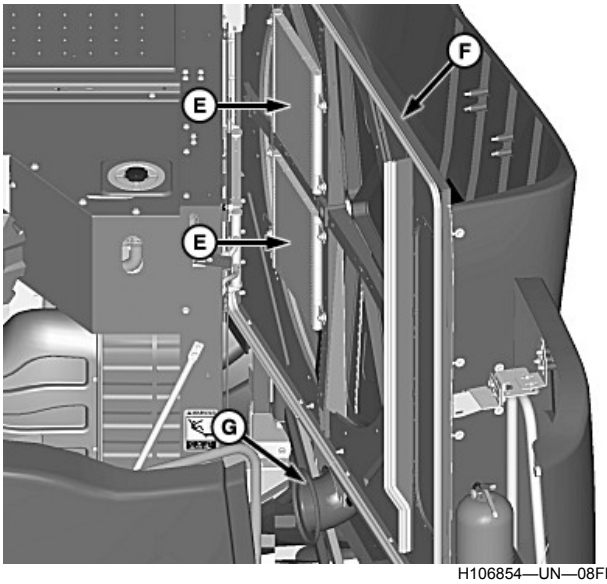
IMPORTANT: Reduce high-pressure washer or pressurized air when cleaning coolers. To prevent damage to fins, direct the water or air straight through the fins to avoid bending them. Use a fin comb to straighten bent fins. Bent fins decrease cooler performance.

Close and latch the rotary screen door.

Tier 2/Stage II (Style B) and Final Tier 4/Stage V



H106853—UN—08FEB13



H106854—UN—08FEB13

A—Lockout Pin
B—Fuel Cooler
C—Radiator
D—Vacuum Duct
E—Condensers
F—Rotary Screen Door
G—Transfer Duct

NOTE: Clean areas out with compressed air, blowing from inside out.

Check rotary screen daily to be certain it turns freely.

Clean rotary screen with a brush and compressed air when dirt and chaff build up on or behind screen.

Pull lockout pin (A) and rotate fuel cooler (B) to clean.

Clean radiator (C), oil cooler, and charge air cooler.

Clean out dirt from the lower vacuum duct (D).

Clean condensers (E) on rotary screen door (F).

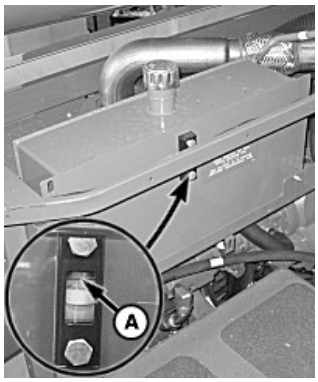
Clean out dirt from the transfer duct (G).

IMPORTANT: Reduce high-pressure washer or pressurized air when cleaning coolers. To prevent damage to fins, direct the water or air straight through the fins to avoid bending them. Use a fin comb to straighten bent fins. Bent fins decrease cooler performance.

Close and latch the rotary screen door.

OUO6075,0004975-19-17MAY18

Hydrostatic/Hydraulic Oil



H115659—UN—28AUG15

A—Sight Glass

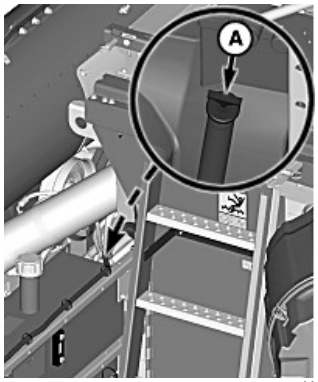
Check with header on ground.

Oil level must be at top of sight glass (A) with the feeder house fully lowered.

Add oil as needed.

OUO6075,0004413-19-21DEC16

Main Engine Gear Case Oil



H121743—UN—12JUN17

A—Dipstick

Shut OFF engine, set park brake and remove key before checking hydraulic oil at engine gear case.

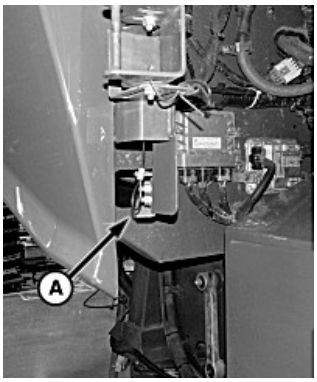
Let machine sit for 5 minutes allowing air to settle from oil.

Oil level must not be below "ADD" mark on dipstick (A).

Add oil as needed.

OUO6075,000493D-19-12APR18

Air Compressor Reservoir (If Equipped)



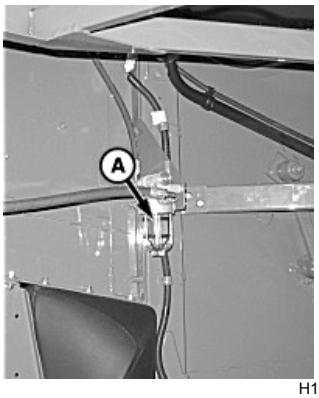
H115497—UN—19AUG15

A—Air Tank Drain Cable

Pull air tank drain cable (A) and drain water from reservoir.

OUO6075,00043FD-19-21DEC16

Fuel Precleaner Filter



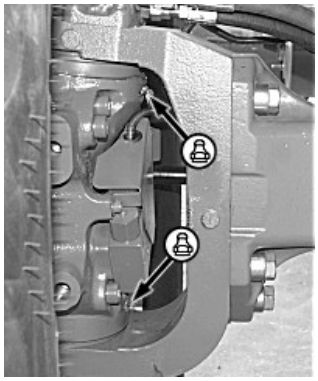
H117746—UN—17MAR16

A—Fuel Precleaner Filter

Inspect fuel precleaner filter (A) for buildup and clean as necessary.

OUO6075,00043FE-19-21DEC16

Two Speed Four-Wheel Drive Motor Pivots (Muddy Conditions)



H115499—UN—19AUG15

NOTE: When operating in mud and water, grease motor pivots every 10 hours. In normal conditions, grease every 50 hours.

Grease fittings until grease purges from top and bottom motor pivot seals.

Grease two fittings (both sides).

OUO6075,0004687-19-22MAR17

Two-Wheel Drive Heavy-Duty and Extra Heavy-Duty Axle Spindle Bearings/Pivot Pins (Muddy Conditions)



H115500—UN—19AUG15

NOTE: When operating in mud and water, grease rear axle spindle bearings and motor pivots every 10 hours. In normal conditions, grease every 50 hours.

Grease fittings until grease purges from top and bottom motor pivot seals.

When operating in mud and water, grease fittings (both sides) every 10 hours.

OUO6075,0004688-19-22MAR17

Final Drive Outer Bearings (Muddy Conditions)



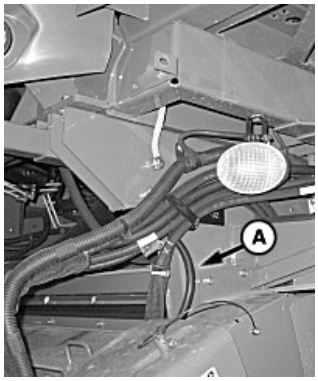
H115501—UN—19AUG15

NOTE: When operating in mud and water, grease final drive outer bearings every 10 hours. In normal conditions, grease every 50 hours.

When operating in mud and water, grease fitting (both sides) every 10 hours.

OUO6075,0004689-19-22MAR17

Air Conditioner Drain Hose



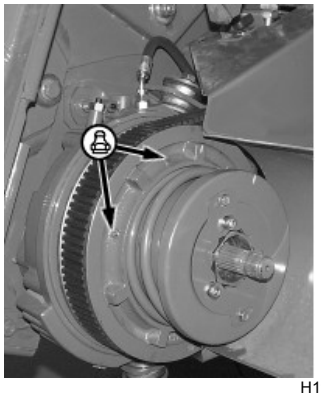
H115502—UN—19AUG15

A—Drain Hose

Clean air conditioner drain hose (A) on both sides of cab.

OUO6075,0004402-19-21DEC16

Variable Speed Feeder House Reverser Drive Gear Case (S760 and S770 Machines) (Severe Conditions)



H115503—UN—19AUG15

NOTE: Use John Deere TY6341 Multi-Purpose SD Polyurea Grease or John Deere TY25744 Synthetic Grease when greasing feeder house reverser drive gear case.

Over greasing can allow grease to purge on belt and cause belt failure.

Turn sheave so fittings are in the twelve and two o'clock positions.

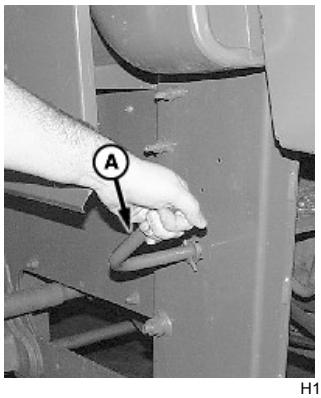
When operating in severe conditions or high yielding corn, grease fitting at twelve o'clock position, 5—8 pumps every 10 hours.

Excess grease purges from under spring.

Grease fitting at two o'clock position, 2—3 pumps every 10 hours.

OUO6075,000493E-19-12APR18

Stone Trap



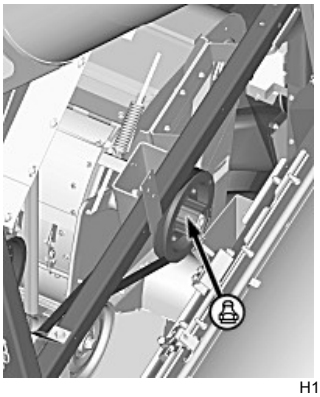
H115496—UN—19AUG15

A—Lever

Remove quick-lock pin and dump stone trap with lever (A). Close stone trap and retain with quick-lock pin.

OUO6075,0004404-19-21DEC16

Tailings Elevator Slip Clutch (Tough Crop Conditions) (S780, S785, and S790 Machines)



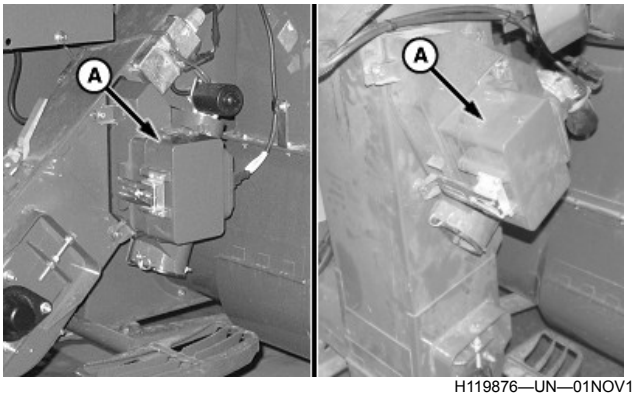
H115504—UN—19AUG15

NOTE: When operating in tough crop conditions, grease tailings elevator slip clutch every 10 hours. In normal conditions, grease every 50 hours.

Grease fitting on tailings elevator slip clutch.

OUO6075,00048A0-19-08FEB18

ActiveVision™ Tailings System Camera (If Equipped)



H119876—UN—01NOV16

Style A / Style B

A—ActiveVision™ Tailings System Camera

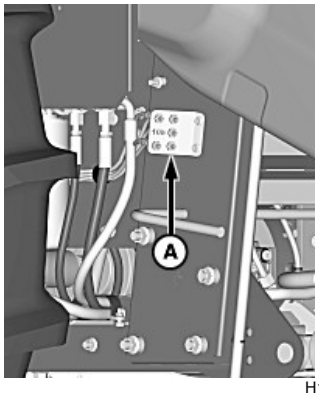
NOTE: Clean the camera lens once per week or as needed. Lens debris indicator in the software alerts the operator when the camera lens needs to be cleaned as system functionality may be reduced.

Cleaning frequency varies depending on a number of factors including operating conditions, weather, and crop conditions. Clean camera lens using a soft, moistened cloth.

Open latch and clean the ActiveVision™ tailings system camera (A).

OUO6075,0004487-19-18JAN17

Central Lube Bank (If Equipped) (HillMaster™ Machines)



H123115—UN—19JAN18

A—Bracket

Grease fittings on bracket (A) provide grease the following locations:

- Final Drive Pivots (both sides)
- Leveling Cylinder Barrels (both sides)
- Master Cylinder Pivot Pin

Grease these fittings until the grease purges from those specific areas.

OUO6075,000488E-19-07FEB18

Final Drive Pivot (Without Central Lube Bank) (HillMaster™ Machines)



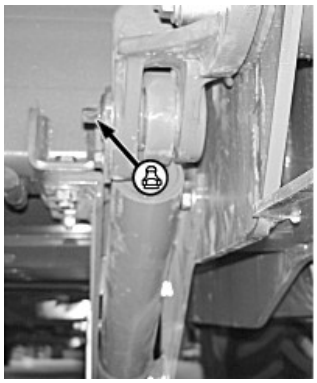
H120022—UN—14NOV16

Grease fitting (both sides) until grease purges.

OUO6075,000488F-19-07FEB18

ActiveVision is a trademark of Deere & Company

Master Cylinder Pivot Pin (Without Central Lube Bank) (HillMaster™ Machines)

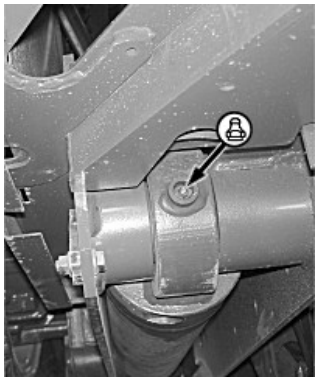


H120023—UN—14NOV16

Grease fitting (both sides) until grease purges.

OUO6075,0004890-19-07FEB18

Leveling Cylinder Barrel (Without Central Lube Bank) (HillMaster™ Machines)

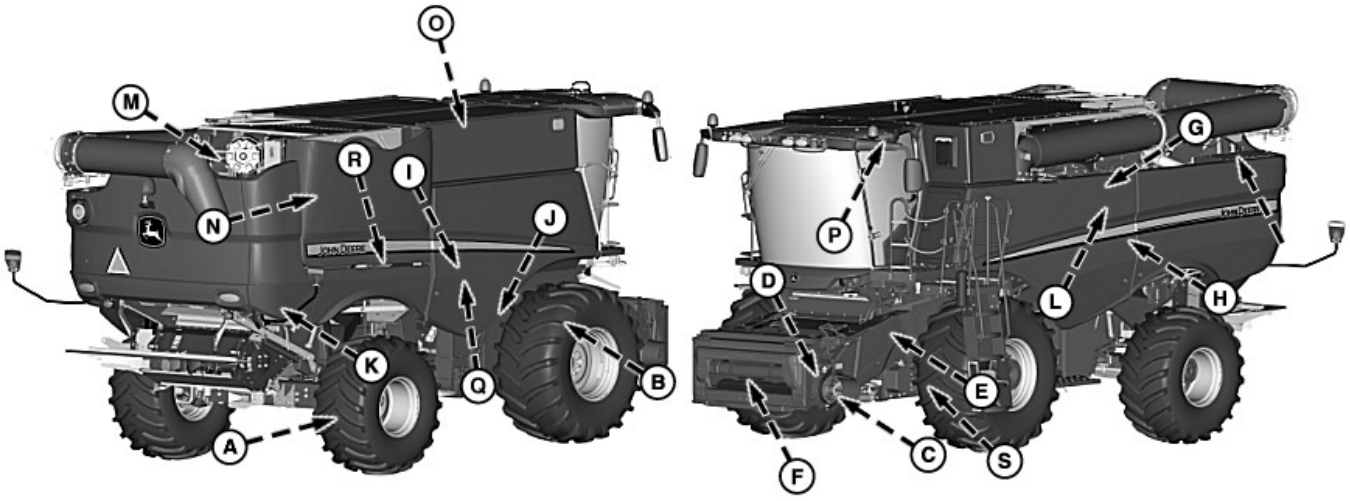


H120024—UN—14NOV16

Grease fitting (both sides) until grease purges.

OUO6075,0004891-19-07FEB18

Service Interval Chart—Every 50 Hours



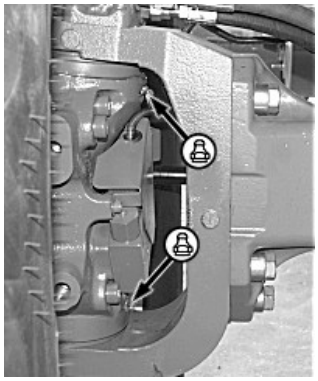
H123391—UN—08FEB18

Legend	Service	Every 50 Hours
A	Grease Two-Speed Four-Wheel Drive Motor Pivots Grease Two-Wheel Drive Heavy-Duty and Extra Heavy-Duty Axle Spindle Bearings/Pivot Pins (Normal Conditions)	•
B	Grease Final Drive Outer Bearings (Normal Conditions)	•
C	Grease Variable Speed Feeder House Reverser Drive Gear Case (S760 and S770 Machines) (Normal Conditions)	•
D	Check Feeder House Reverser Gear Case Oil	•
E	Grease Variable Speed Feeder House Upper Sheaves (S760 and S770 Machines)	•
F	Check/Clean Lateral Tilt Feeder House	•
G	Cycle Separator Variable Speed Driven/Driver Sheaves	•
H	Grease Separator Variable Speed Driven/Driver Sheaves (S770 Optional, S780, S785, and S790 Machines)	•
I	Grease Cleaning Fan Variable Upper Sheaves	•
J	Grease Cleaning Fan Variable Lower Sheaves	•
K	Inspect Fuel Precleaner Filter	•
L	Check Two-Speed Separator Drive Oil	•
M	Check Water Separator Primary Fuel Filter	•
N	Check Radiator, Charge Air Cooler, Oil Cooler, and Condenser	•
O	Check Mass Flow Sensor	•
P	Clean/Replace Cab Fresh Air Filter	•
Q	ActiveVision™ Clean Grain Elevator Camera (If Equipped)	•
R	Grease Tailings Elevator Slip Clutch (Normal Crop Conditions) (S780, S785, and S790 Machines)	•
S	Grease Final Drive Couplers	•

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OUO6075,0004893-19-31MAY18

Two Speed Four-Wheel Drive Motor Pivots (Normal Conditions)



H115499—UN—19AUG15

NOTE: When operating in mud and water, grease motor pivots every 10 hours. In normal conditions, grease every 50 hours.

Grease fittings until grease purges from top and bottom motor pivot seals.

Grease two fittings (both sides).

OUO6075,000468A-19-22MAR17

Two-Wheel Drive Heavy-Duty and Extra Heavy-Duty Axle Spindle Bearings and Pivot Pins (Normal Conditions)



H115500—UN—19AUG15

NOTE: When operating in mud and water, grease rear axle spindle bearings and motor pivots every 10 hours. In normal conditions, grease every 50 hours.

Grease fittings until grease purges from top and bottom pivot seals.

When operating in normal conditions, grease fittings (both sides) every 50 hours.

OUO6075,000468B-19-22MAR17

Final Drive Outer Bearings (Normal Conditions)



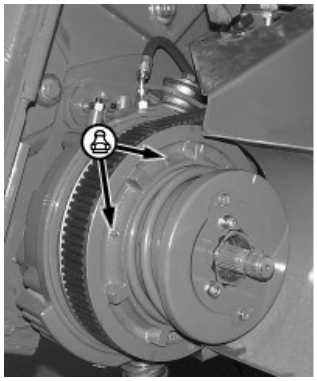
H115501—UN—19AUG15

NOTE: When operating in mud and water, grease final drive outer bearings every 10 hours. In normal conditions, grease every 50 hours.

When operating in normal conditions, grease fitting (both sides) every 50 hours.

OUO6075,000468C-19-22MAR17

Variable Speed Feeder House Reverser Drive Gear Case (S760 and S770 Machines) (Normal Conditions)



H115503—UN—19AUG15

NOTE: Use John Deere TY6341 Multi-Purpose SD Polyurea Grease or John Deere TY25744 Synthetic Grease when greasing feeder house reverser drive gear case.

Over greasing can allow grease to purge on belt and cause belt failure.

Turn sheave so fittings are in the twelve and two o'clock positions.

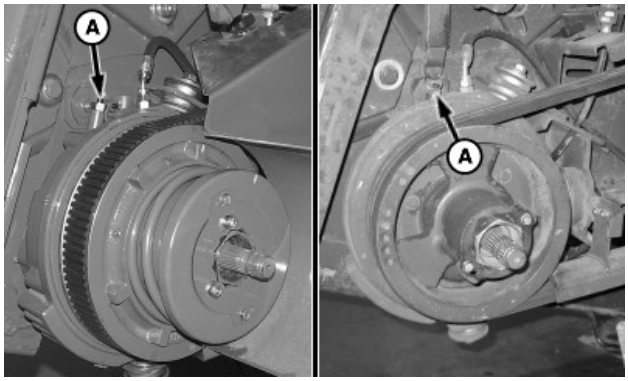
When operating in normal conditions, grease twelve o'clock fitting (10—15 times) and two o'clock fitting (5—8 times) every 50 hours.

After greasing, cycle variable sheaves through speed

range a couple of times to ensure grease spreads evenly over cam surfaces.

OUO6075,000493F-19-12APR18

Feeder House Reverser Drive Gear Case Oil



H115651—UN—27AUG15

Variable Speed/Multi-Speed Reverser Gear Case

A—Dipstick

Raise feeder house and lower safety stop.

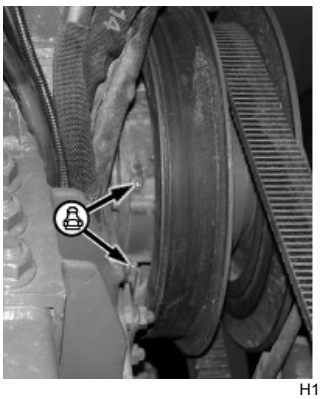
NOTE: Gear cases with an oil cooler require gear case to be run for several minutes. This ensures that the cooler is filled with oil.

Oil level must show on knurled part of dipstick.

Remove dipstick (A) and check oil level.

OUO6075,00046D1-19-28MAR17

Variable Speed Feeder House Upper Sheaves (S760 and S770 Machines)



H115652—UN—27AUG15

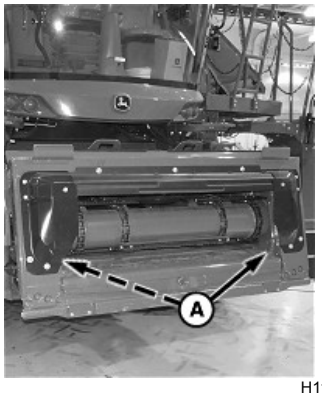
NOTE: It may be necessary to rotate the sheave for access to fittings.

Raise feeder house and lower safety stop.

Lube fittings from the underside of the feeder house.

OUO6075,000440C-19-21DEC16

Lateral Tilt Feeder House



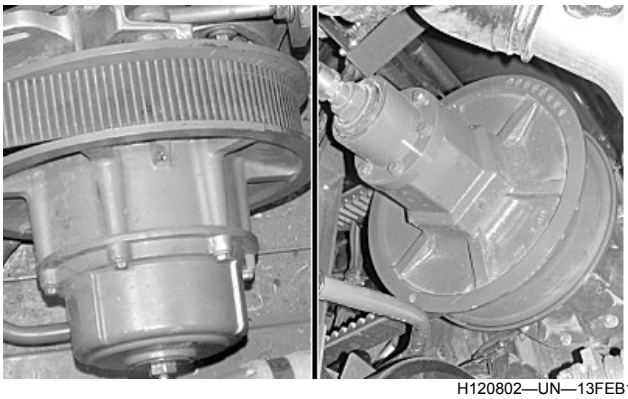
H115653—UN—28AUG15

A—Cleanout Areas

Check cleanout areas (A) for packed material which could prevent header from tilting. Clean out if necessary.

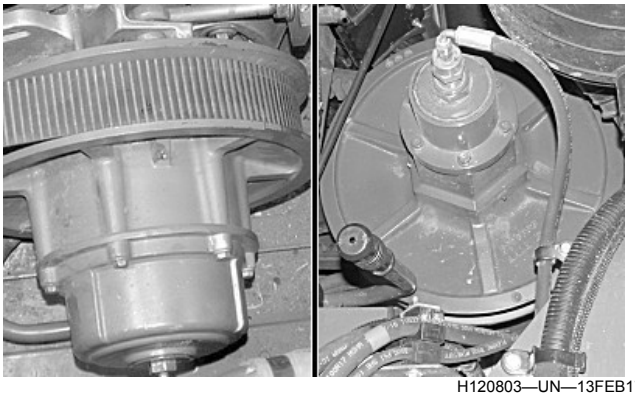
OUO6075,000440D-19-21DEC16

Separator Variable Speed Driven/Driver Sheaves



H120802—UN—13FEB17

Driven Sheaves / Driver Sheaves (Small Diameter)



H120803—UN—13FEB17

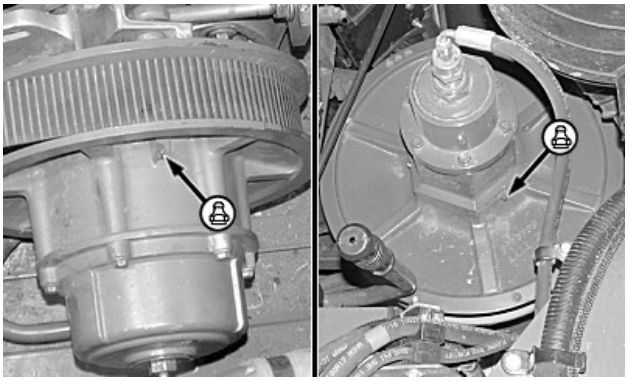
Driven Sheaves / Driver Sheaves (Large Diameter)

Separator Variable Speed Sheaves: Start machine and cycle sheaves through speed range if operated at

high speed all the time. Cycling sheaves helps replenish bushings with grease already inside sheave cavity.

OUO6075,00045D9-19-13FEB17

Separator Variable Speed Driven/Driver Sheaves (S770 Optional, S780, S785, and S790 Machines)



H120804—UN—13FEB17

Driven Sheaves / Driver Sheaves

NOTE: On S770 machines equipped with the optional large diameter driver sheave, the fitting MUST be greased every 50 hours.

IMPORTANT: Separator Variable Speed Driven and Driver Sheaves: Pump 20—25 shots of grease into fitting. DO NOT OVER GREASE.

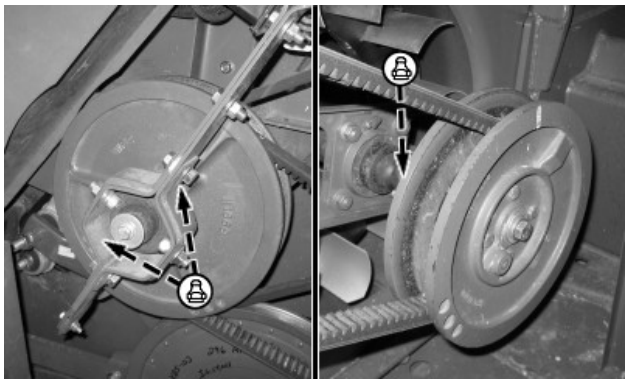
Separator Variable Speed Driven Sheaves: Rotate sheaves to access fitting.

NOTE: Start machine and cycle separator through full speed range a couple of times to distribute grease evenly.

Separator Variable Speed Driver Sheaves: Close sheaves (high speed) before greasing fitting on the outer sheave hub. Rotate sheave to access fitting. Cycle cylinder speed to distribute grease if operated at high speed all the time.

OUO6075,00045DA-19-20MAR17

Cleaning Fan Variable Upper and Lower Sheaves



H115656—UN—28AUG15

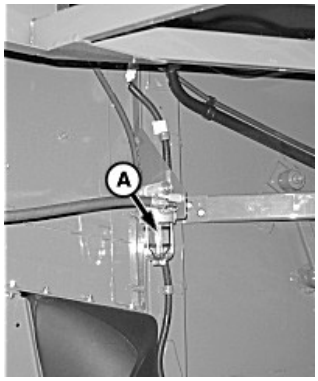
Upper Sheaves / Lower Sheaves

Cleaning Fan Variable Upper Sheaves: Grease both fittings on hub of outer sheave. Rotate sheaves for fitting access.

Cleaning Fan Variable Lower Sheaves: Grease fitting on hub located on inner sheave. Rotate sheaves for fitting access.

OUO6075,0004410-19-21DEC16

Fuel Precleaner Filter



H115657—UN—28AUG15

A—Fuel Precleaner Filter

Visually check fuel precleaner filter (A) and clean if buildup is visible on screen.

Close the fuel tank shutoff valve.

Remove fuel precleaner filter and clean screen.

Install screen and filter. Open the fuel tank shutoff valve to fill. See Fuel Maintenance—As Required (Engine Fluids and Filters) section for further information.

OUO6075,0004411-19-21DEC16

Two-Speed Separator Drive Oil



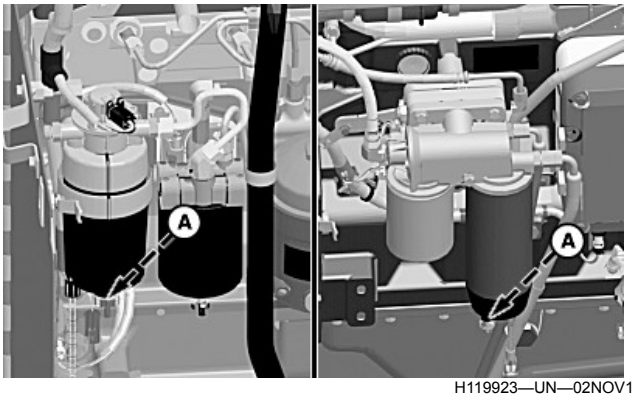
H115658—UN—28AUG15

A—Dipstick

Remove dipstick (A) and check oil level. Add oil as needed to correct level on dipstick.

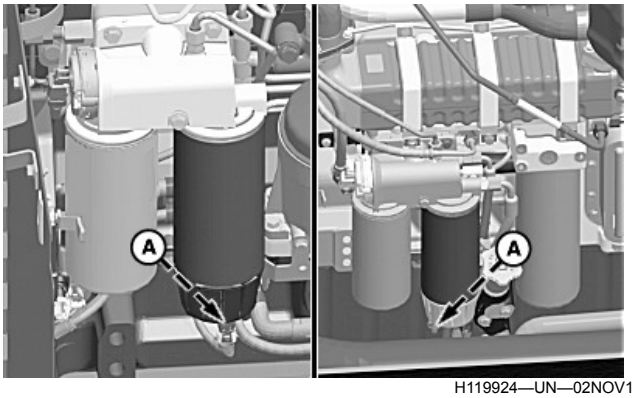
OUO6075,0004412-19-21DEC16

Water Separator Primary Fuel Filter



H119923—UN—02NOV16

Tier 2/Stage II (Style A / Style B)



H119924—UN—02NOV16

Final Tier 4/Stage V (Style A / Style B)

A—Drain

Check separator bowl for water.

Open drain (A) and drain water out separator bowl.

OUO6075,00047EA-19-13NOV17

Radiator, Charge Air Cooler, Oil Cooler, and Condenser



H115662—UN—28AUG15

Clean radiator by blowing compressed air from inside out.

Check areas for chaff buildup and clean if necessary.

OUO6075,0004415-19-21DEC16

Mass Flow Sensor



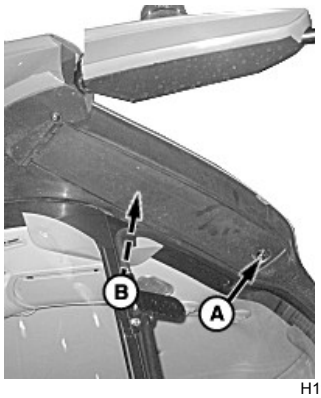
H123564—UN—22FEB18

NOTE: If machine is equipped with grain tank covers, it is necessary to remove bottom support rod hardware to lower the grain tank loading auger.

Lower grain tank loading auger and clean mass flow sensor plate.

OUO6075,0004882-19-22FEB18

Cab Fresh Air Filter



H115664—UN—28AUG15

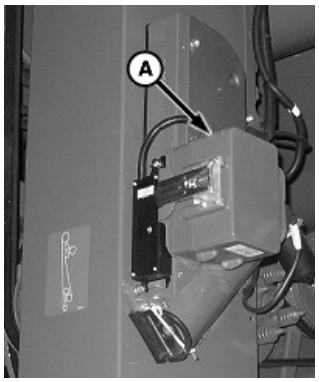
A—Knob
B—Fresh Air Filter

NOTE: Cab fresh air filter may require cleaning sooner in dusty conditions.

Turn knob (A) and lower access cover. Remove fresh air filter (B) to clean or replace.

OUO6075,0004417-19-21DEC16

ActiveVision™ Clean Grain Elevator Camera (If Equipped)



H119875—UN—01NOV16

A—ActiveVision™ Clean Grain Elevator Camera

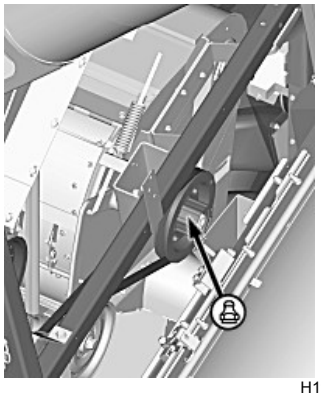
NOTE: Clean the camera lens once per week or as needed. Lens debris indicator in the software alerts the operator when the camera lens needs to be cleaned as system functionality may be reduced.

Cleaning frequency varies depending on a number of factors including operating conditions, weather, and crop conditions. Clean camera lens using a soft, moistened cloth.

Open latch and clean the ActiveVision™ clean grain elevator camera (A).

OUO6075,000448D-19-11JAN17

Tailings Elevator Slip Clutch (Normal Crop Conditions) (S780, S785, and S790 Machines)



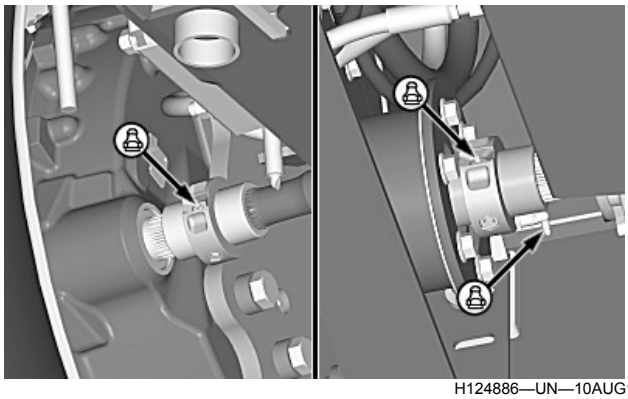
H115504—UN—19AUG15

NOTE: When operating in tough crop conditions, grease tailings elevator slip clutch every 10 hours. In normal conditions, grease every 50 hours.

Grease fitting on tailings elevator slip clutch.

OUO6075,00048A1-19-08FEB18

Final Drive Couplers



H124886—UN—10AUG18

Level Land Machines / HillMaster™ Machines

NOTE: Grease fittings until grease purges from splines.

Level land machines have one grease fitting per final drive coupler.

HillMaster™ machines have two grease fittings per final drive coupler.

Grease final drive coupler fittings (both sides).

Tighten socket head cap screw on final drive coupler (both sides) to specification.

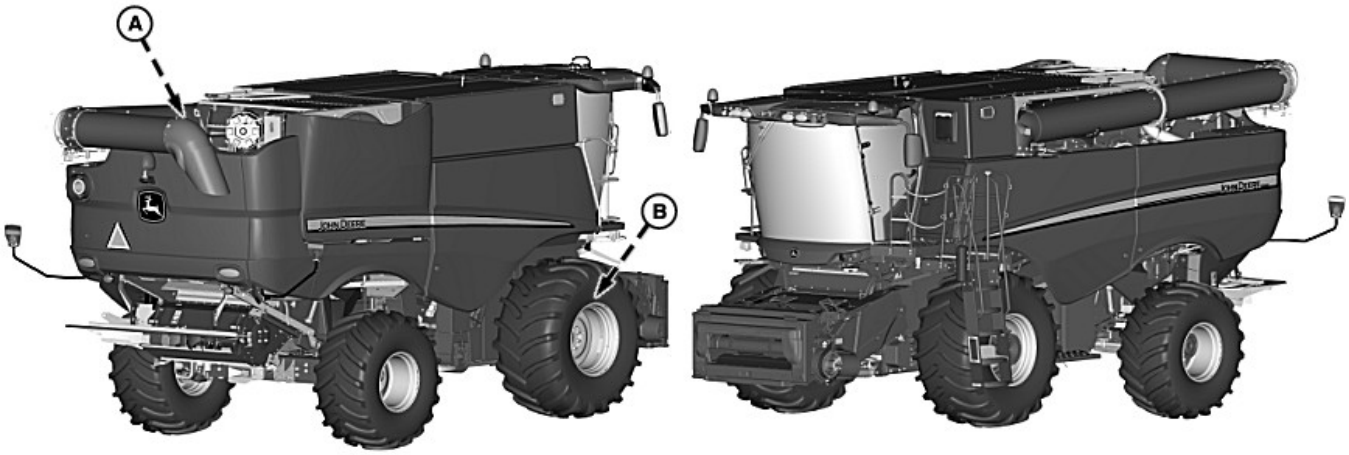
ActiveVision is a trademark of Deere & Company

HillMaster is a trademark of Deere & Company

	Specification
Socket Head Cap Screw—Torque	10 N·m (89 lb·in)

OUO6075,0004A19-19-24AUG18

Service Interval Chart—First 100 Hours



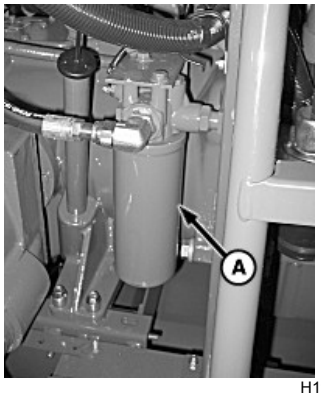
H119631—UN—13OCT16

Legend	Service	First 100 Hours
A	Replace Main Engine Gear Case Filter (S760 and S770 ProDrive™ Machines)	•
B	Replace Main Engine Gear Case Lube Filter (ProDrive™ Machines)	•

ProDrive is a trademark of Deere & Company

OUO6075,00046D2-19-28MAR17

Main Engine Gear Case Filter (S760 and S770 ProDrive™ Machines)



H115506—UN—27AUG15

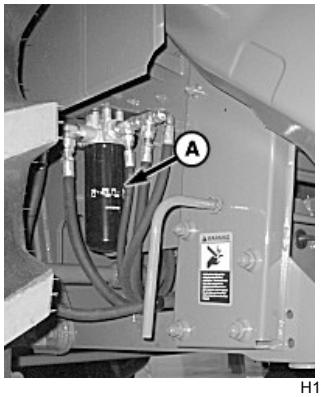
A—Filter

NOTE: It is not necessary to drain system when replacing filter.

Remove and replace filter (A). Coat seal on the filter with oil. Hand tighten, then tighten 1/2 turn more.

OUO6075,00046D3-19-28MAR17

Main Engine Gear Case Lube Filter (ProDrive™ Machines)



H115507—UN—27AUG15

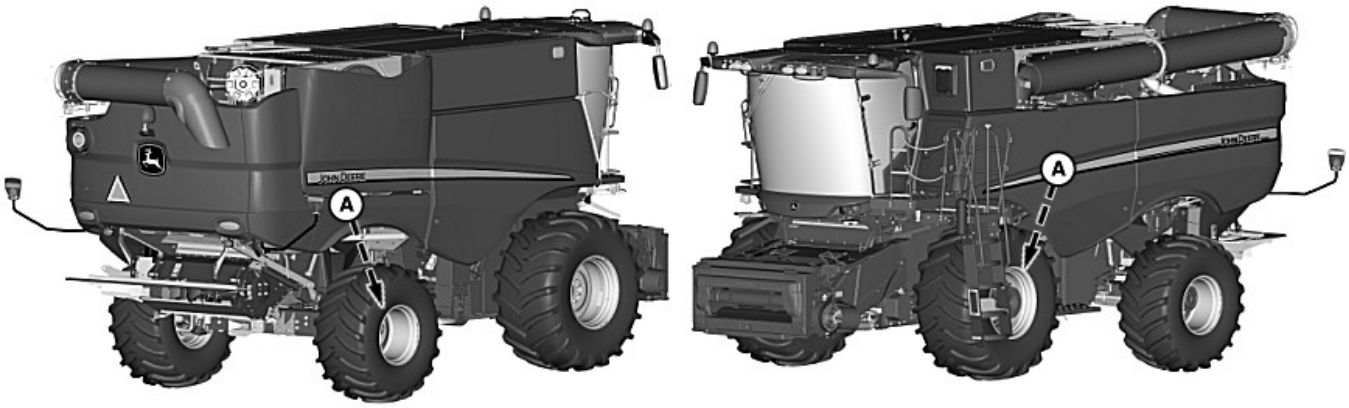
A—Filter

NOTE: It is not necessary to drain system when replacing filter.

Remove and replace filter (A). Coat seal on the filter with oil. Hand tighten, then tighten 1/2 turn more.

OUO6075,00046D4-19-28MAR17

Service Interval Chart—Every 100 Hours



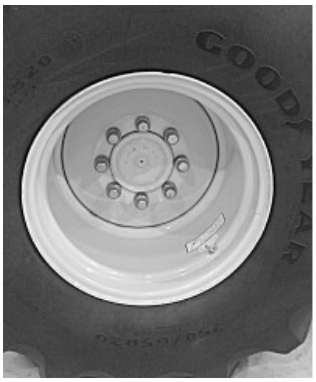
H119634—UN—13OCT16

A—Tire Pressure and Bolt Locations

Legend	Service	Every 100 Hours
A	Check Tire Pressure and Bolt Torque	•

OUO6075,000441C-19-20DEC16

Tire Pressure and Bolt Torque

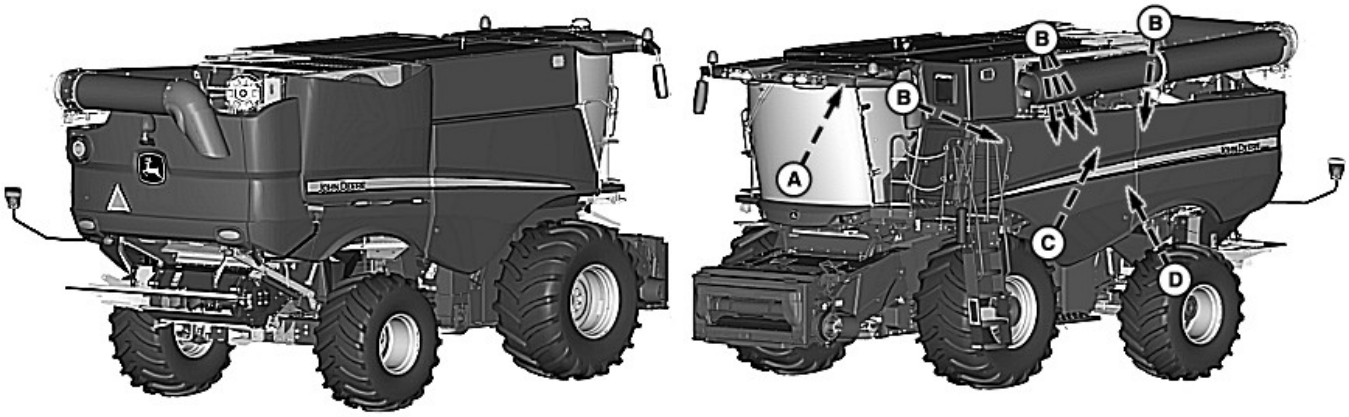


H115666—UN—28AUG15

Check front and rear tire pressure and wheel bolt torque. See Ground Drive and Rear Axle section for further information.

OUO6075,000441D-19-21DEC16

Service Interval Chart—Every 200 Hours

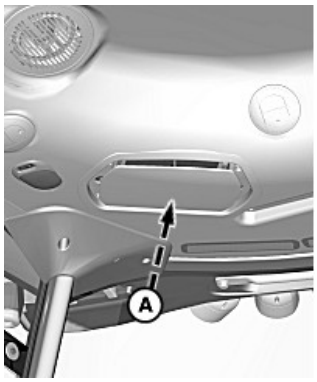


H119635—UN—13OCT16

Legend	Service	Every 200 Hours
A	Clean/Replace Recirculating Filter	•
B	Grease Primary Countershaft (Multi-Speed Feeder House on S770, S780, S785, and S790 Machines)	•
C and D	Grease Separator Variable Speed Driven/Driver Sheaves (S760 and S770 Machines)	•

OUO6075,00045E0-19-13FEB17

Recirculating Filter



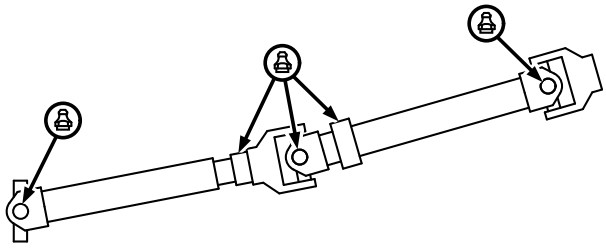
H115668—UN—28AUG15

A—Recirculating Filter

Remove cover to clean or replace recirculating filter (A).

OUO6075,000441F-19-21DEC16

Primary Countershaft (Multi-Speed Feeder House on S770, S780, S785, and S790 Machines)



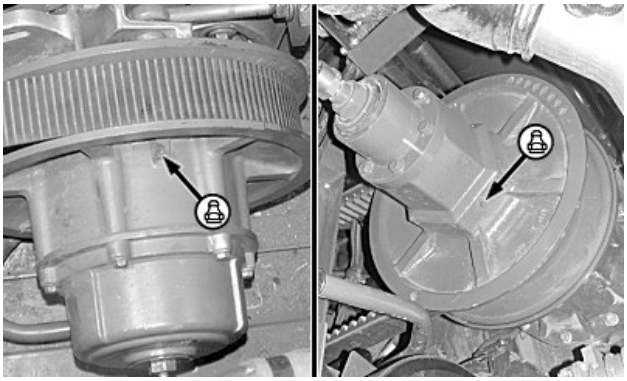
H119656—UN—17OCT16

NOTE: Machines not equipped with the multi-speed feeder house have one grease fitting and should be greased every 400 hours.

Rotate to access five fittings and grease.

OUO6075,00044B8-19-21DEC16

Separator Variable Speed Driven/Driver Sheaves (S760 and S770 Machines)



H120805—UN—13FEB17

Driven Sheaves / Driver Sheaves

NOTE: On S770 machines equipped with the optional large diameter driver sheave, the fitting MUST be greased every 50 hours.

IMPORTANT: Separator Variable Speed Driven and Driver Sheaves: Pump 20—25 shots of grease into fitting. DO NOT OVER GREASE.

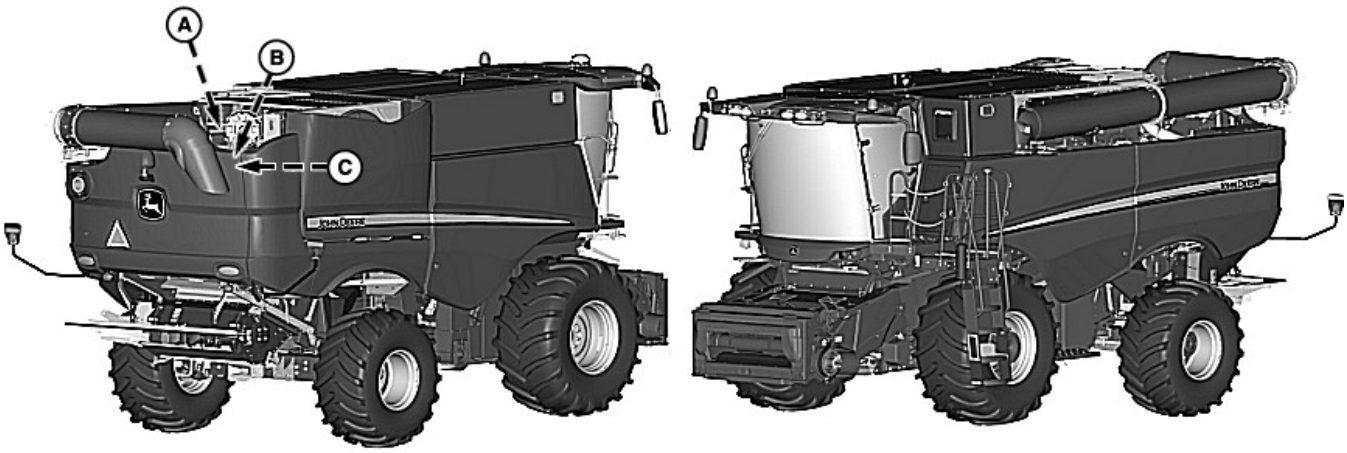
Separator Variable Speed Driven Sheaves: Rotate sheaves to access fitting.

NOTE: Start machine and cycle separator through full speed range a couple of times to distribute grease evenly.

Separator Variable Speed Driver Sheaves: Close sheaves (high speed) before greasing fitting on the outer sheave hub. Rotate sheave to access fitting. Cycle cylinder speed to distribute grease if operated at high speed all the time.

OUO6075,00045DB-19-20MAR17

Service Interval Chart—Every 250 Hours

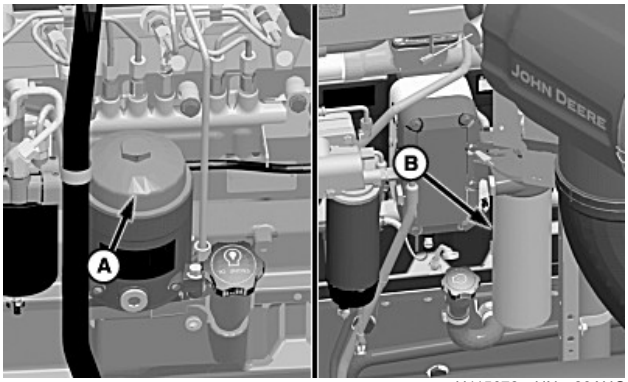


H119636—UN—14OCT16

Legend	Service	Every 250 Hours
A	Change Engine Oil and Filter (Tier 2/Stage II) Change Engine Oil and Filter (Final Tier 4/Stage V)	•
B	Inspect Fuel Tank Breather	•
C	Inspect Diesel Exhaust Fluid (DEF) Tank Breather (Final Tier 4/Stage V)	•

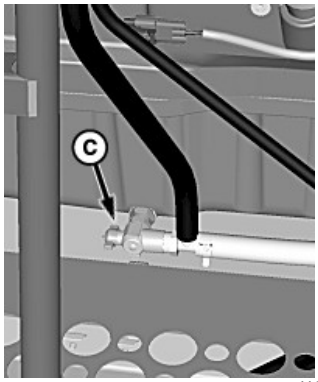
OUO6075,00047ED-19-15NOV17

Engine Oil and Filter (Tier 2/Stage II)

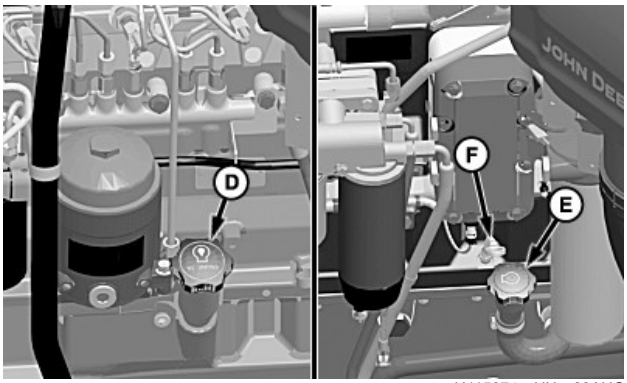


H115672—UN—28AUG15

Style A / Style B



H115673—UN—28AUG15



H115674—UN—28AUG15

Style A / Style B

A—Cap
B—Oil Filter
C—Drain
D—Dipstick
E—Cap
F—Dipstick

IMPORTANT: Change oil every 100 hours if fuel with a high sulfur content is used. See Fuels and Lubricants section for further information on sulfur content.

Fill crankcase with seasonal viscosity grade oil or Torq-Gard™ (250 hours service interval). If using John Deere Plus-50™ or Plus-50™ II engine oil and a John Deere filter, service interval can be extended by 50 percent. Example: 250 hours extends to 375 hours.

1. **Style A:** Engine Crankcase Top Load Oil Filter: Remove cap (A) and remove filter. Replace filter and install cap. Tighten to specification.

Specification

Oil Filter Cap—Torque	40 N·m (30 lb·ft)

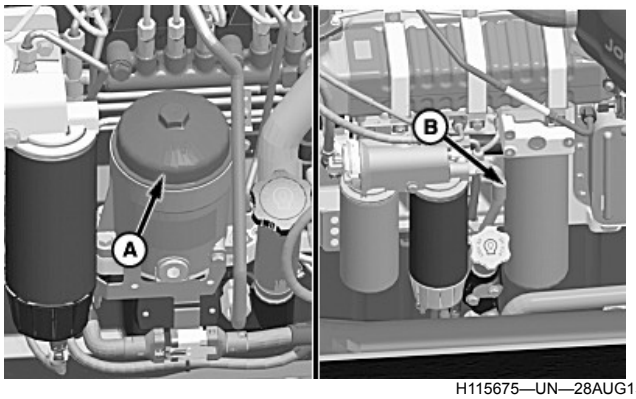
Style B: Engine Crankcase Oil Filter: Remove and replace oil filter (B).

2. Open drain (C) to remove oil.
3. **Style A:** Engine Crankcase Top Load Oil Filter: Remove dipstick (D) to fill and check oil level after filling.

Style B: Engine Crankcase Oil Filter: Remove cap (E) to fill and check oil with dipstick (F) after filling.

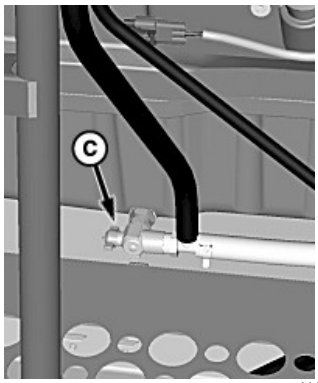
OUO6075,00044BA-19-25JAN17

Engine Oil and Filter (Final Tier 4/Stage V)

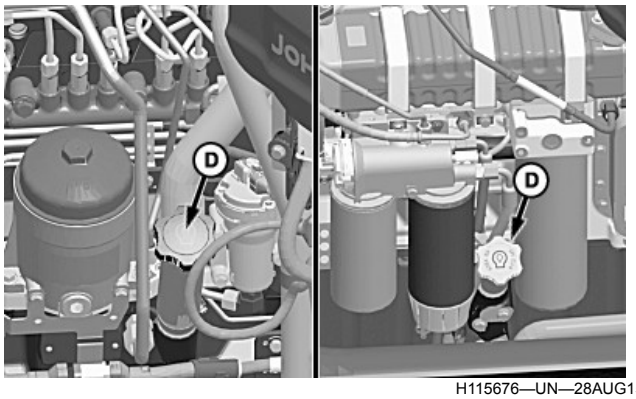


H115675—UN—28AUG15

Style A / Style B



H115673—UN—28AUG15



H115676—UN—28AUG15

A—Cap
B—Oil Filter
C—Drain
D—Dipstick

IMPORTANT: Change oil every 250 hours when using other engine oils as specified in Fuels and Lubricants section.

Change oil every 400 hours when using John Deere Plus-50™ II engine oil and a John Deere filter. See Fuels and Lubricants section for further information.

Final Tier 4/Stage V engines require Plus-50™ II engine oil or a API CK-4, API CJ-4, ACEA E9, ACEA E6 certified oils.

Torq-Gard is a trademark of Deere & Company
Plus-50 is a trademark of Deere & Company

Use only ultra low sulfur diesel (ULSD) fuel with a maximum sulfur content of 15 mg/kg (15 ppm).

1. **Style A:** Engine Crankcase Top Load Oil Filter: Remove cap (A) and remove filter. Replace filter and install cap. Tighten to specification.

Specification

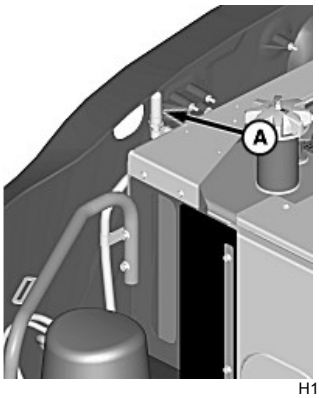
Oil Filter Cap—Torque	40 N·m (30 lb·ft)

Style B: Engine Crankcase Oil Filter: Remove and replace oil filter (B).

2. Open drain (C) to remove oil.
3. Remove dipstick (D) to fill and check oil level after filling.

OUO6075,00047EE-19-13NOV17

Fuel Tank Breather



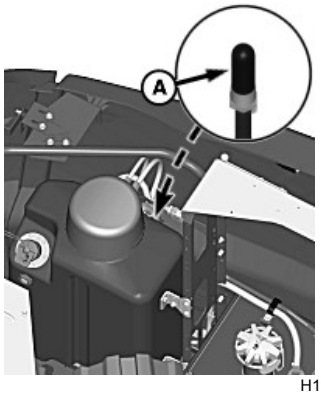
H115678—UN—28AUG15

A—Fuel Tank Breather

Visually inspect fuel tank breather (A). Do not allow debris to collect on breather. Remove breather from hose and clean.

OUO6075,0004425-19-21DEC16

Diesel Exhaust Fluid (DEF) Tank Breather (Final Tier 4/Stage V)



H115679—UN—28AUG15

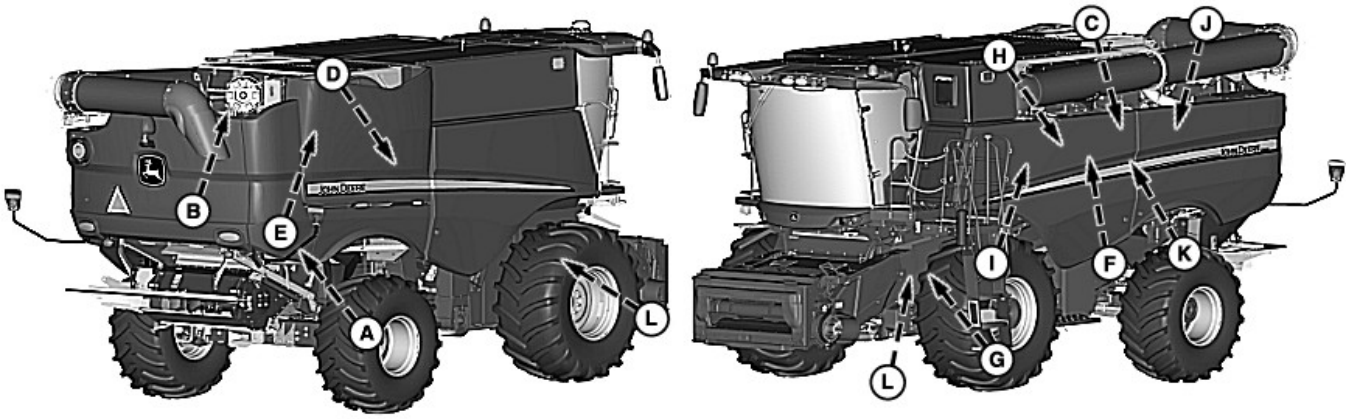
A—Diesel Exhaust Fluid (DEF) Tank Breather

Visually inspect Diesel Exhaust Fluid (DEF) tank breather (A). Do not allow debris to collect on breather. Remove breather from hose and clean.

OUO6075,00047EF-19-13NOV17

Maintenance—Every 400 Hours

Service Interval Chart—Every 400 Hours

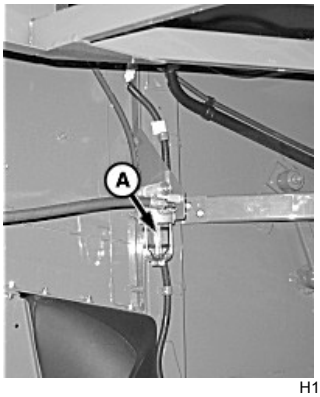


H119653—UN—17OCT16

Legend	Service	Every 400 Hours
A	Clean Fuel Precleaner Filter	•
B	Check Water Separator (S780, S785, and S790 Machines) Replace Primary and Secondary Fuel Filter	•
C, D, E	Grease Variable Speed Driver/Driven Sheaves (Final Tier 4/Stage V S760 and S770 Machines)	•
F	Grease Unloading Auger Upper Gear Case	•
G	Grease Header/Reel Drive Pump Sheave Bearing	•
H	Grease Primary Countershaft Universal Joint Spline (Non-Multi-Speed Feeder House)	•
I	Grease Vertical Unloading Auger Upper Gear Case (S780, S785, and S790 Machines)	•
J	Grease Chopper/Unloading Driveshaft Bearing	•
K	Grease Variable Speed Driver Sheave	•
L	Grease Feed Accelerator Bearings	•

OUO6075,00047F1-19-13NOV17

Fuel Precleaner Filter



H115657—UN—28AUG15

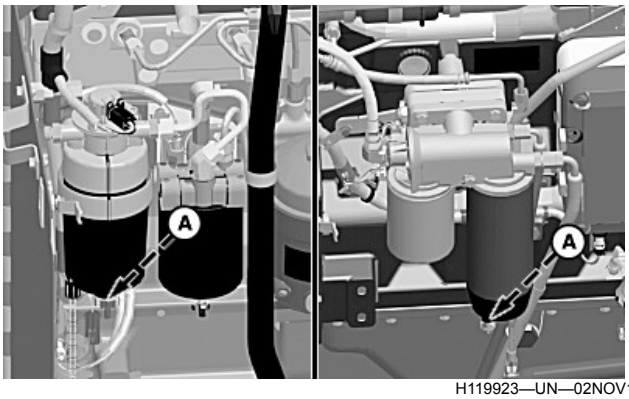
A—Fuel Precleaner Filter

⚠ CAUTION: Shut OFF engine, set park brake and remove key before performing maintenance work on the fuel filter.

1. Close the fuel tank shutoff valve.
2. Remove fuel precleaner filter (A) and clean screen.
3. Install screen and filter. Open fuel tank shutoff valve to fill. See Maintenance—As Required (Engine Fluids and Filters) section for further information.

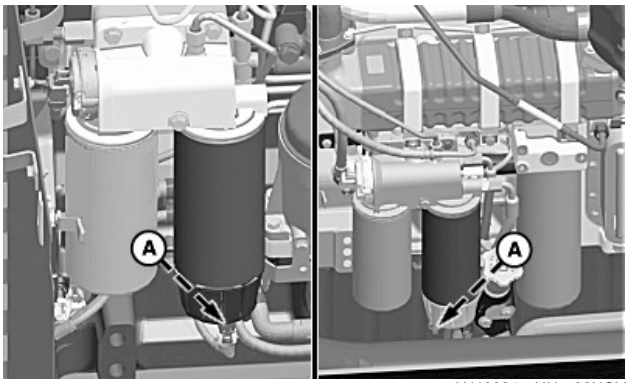
OUO6075,0004428-19-17JAN17

Water Separator



H119923—UN—02NOV16

Tier 2/Stage II (Style A / Style B)



H119924—UN—02NOV16

Final Tier 4/Stage V (Style A / Style B)

A—Drain

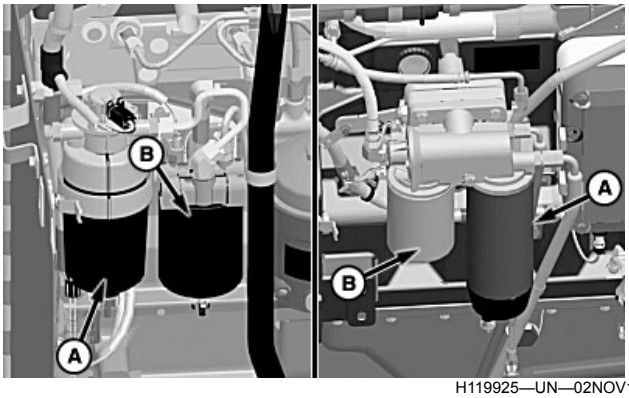
Check water separator (A) for water or when diagnostic trouble code is generated.

Open drain to remove water form separator. See Maintenance—As Required (Engine Fluids and Filters) section for further information.

Remove and retain water separator.

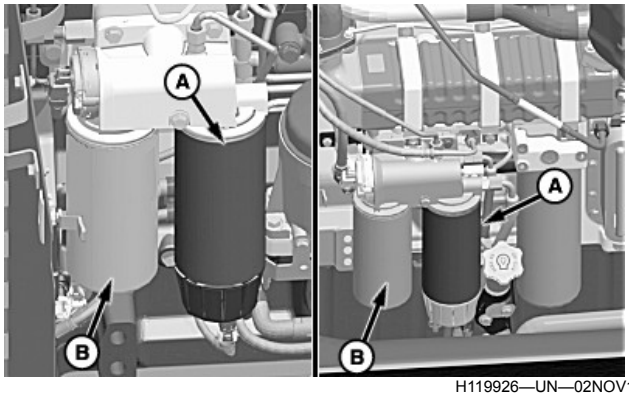
OUO6075,00047F3-19-13NOV17

Primary and Secondary Fuel Filter



H119925—UN—02NOV16

Tier 2/Stage II (Style A / Style B)



H119926—UN—02NOV16

Final Tier 4/Stage V (Style A / Style B)

A—Primary Fuel Filter
B—Secondary Fuel Filter

CAUTION: High-pressure fluid remaining in fuel lines can cause serious injury. Before disconnecting fuel lines, sensors, or any other components between the high-pressure fuel pump and nozzles on engines with High Pressure Common Rail (HPCR) fuel system, wait a minimum of 15 minutes after engine is stopped.

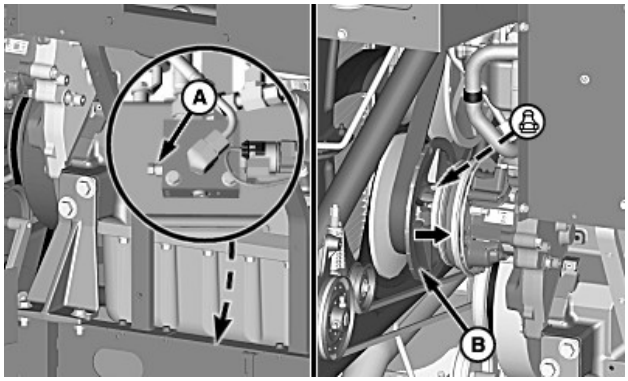
Shut OFF engine, set park brake and remove key before performing maintenance work on the fuel filter.

1. Primary Fuel Filter:
   a. Close fuel tank shutoff valve.
   b. Remove and replace primary fuel filter (A) when performance decline is noticed or diagnostic trouble code is generated.
   c. Disconnect water sensor (if equipped)
   d. Remove fuel from the filter and discard.
   e. Install replacement primary fuel filter.
   f. Open fuel tank shutoff valve, and turn key switch ON to prime the fuel system. See Maintenance—As Required (Engine Fluids and Filters) section for further information.
2. Secondary Fuel Filter:
   a. Close fuel tank shutoff valve.
   b. Remove and replace secondary fuel filter (B) when performance decline is noticed or diagnostic trouble code is generated.
   c. Remove fuel from the filter and discard.
   d. Install replacement secondary fuel filter.
   e. Open fuel tank shutoff valve, and turn key switch ON to prime the fuel system. See Maintenance

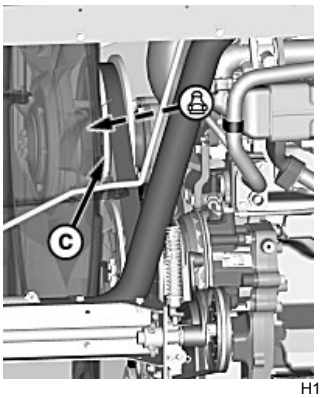
—As Required (Engine Fluids and Filters) section for further information.

OUO6075,00047F5-19-13NOV17

Variable Speed Driver/Driven Sheaves (Final Tier 4/Stage V) (S760 and S770 Machines)



H115710—UN—31AUG15



H115711—UN—31AUG15

A—Bleed Screw
B—Driver Sheave
C—Driven Sheave

NOTE: Variable speed drive bleed valve and sheaves are accessible by opening separator access cover.

1. Variable Speed Drive Bleed Valve - Loosen bleed screw (A) to relieve pressure from sheaves.

IMPORTANT: Inner driver sheave must be fully retracted to obtain proper amount of lubrication.

Sheave movement range can be impaired if sheaves are not fully separated.

2. Variable Speed Driver Sheave - Locate grease fitting on the driver sheave (B). Pull driver sheave towards the engine until completely open. Grease fitting 10—12 pumps. Excess grease purges from the front side of the driver sheave.

IMPORTANT: Driven sheaves must be fully closed to obtain proper amount of lubrication.

Sheave movement range can be impaired if sheaves are not fully closed.

3. Variable Speed Driven Sheave - Locate grease fitting on driven sheave (C). Push driven sheaves together until they are completely closed. Grease fitting 10—12 pumps. Excess grease purges from the front side of the driven sheave.

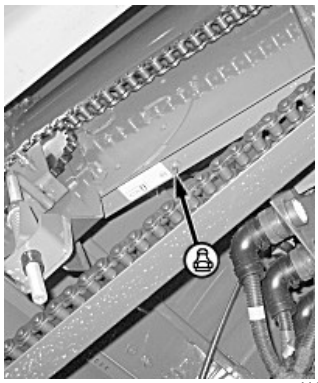
   Tighten bleed screw and nut on the valve to specification.

Specification

Bleed Screw and Nut—Torque. . . . . 23 N·m (17 lb·ft)

OUO6075,00047F6-19-13NOV17

Unloading Auger Upper Gear Case

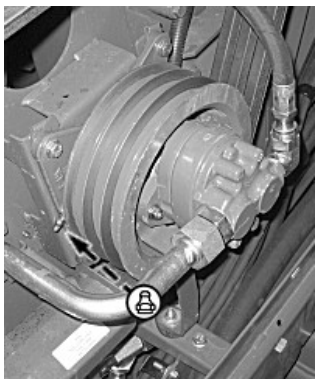


H115712—UN—31AUG15

Grease the fitting.

OUO6075,000468D-19-28MAR17

Header/Reel Drive Pump Sheave Bearing



H115713—UN—31AUG15

Grease the fitting.

OUO6075,000468E-19-20MAR17

Primary Countershaft Universal Joint Spline (Non-Multi-Speed Feeder House)



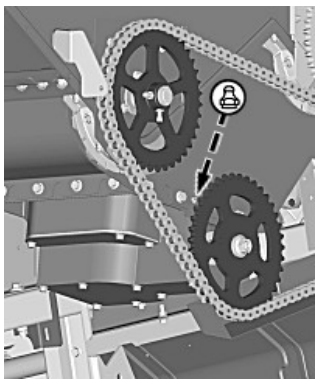
H115714—UN—31AUG15

NOTE: Machines equipped with multi-speed feeder house drive have five grease fittings.

Rotate to access fitting and grease.

OUO6075,000442F-19-17JAN17

Vertical Unloading Auger Upper Gear Case (S780, S785, and S790 Machines)



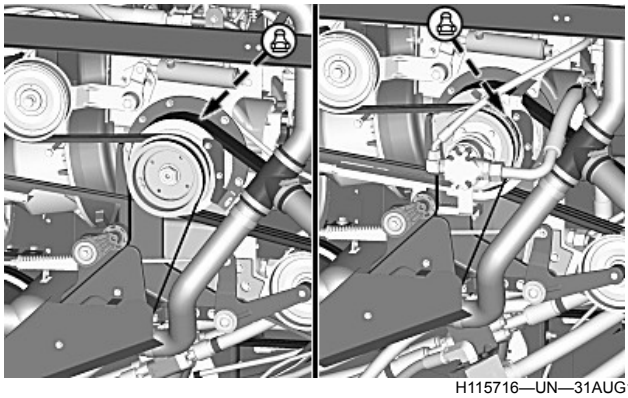
H115715—UN—31AUG15

IMPORTANT: Pump 10 shots of grease into fitting.

Grease the fitting.

OUO6075,000468F-19-28MAR17

Chopper/Unloading Driveshaft Bearing



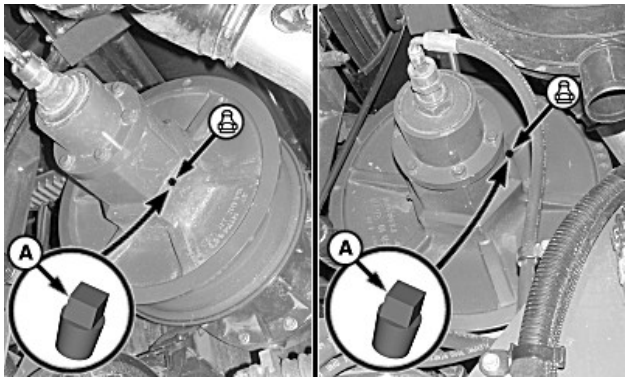
H115716—UN—31AUG15

Style A / Style B

Rotate sheave to access fitting on bottom of the sheave groove, and grease the fitting.

OUO6075,0004690-19-20MAR17

Variable Speed Driver Sheave



H122949—UN—18DEC17

Driver Sheaves (Small Diameter) / Driver Sheaves (Large Diameter)

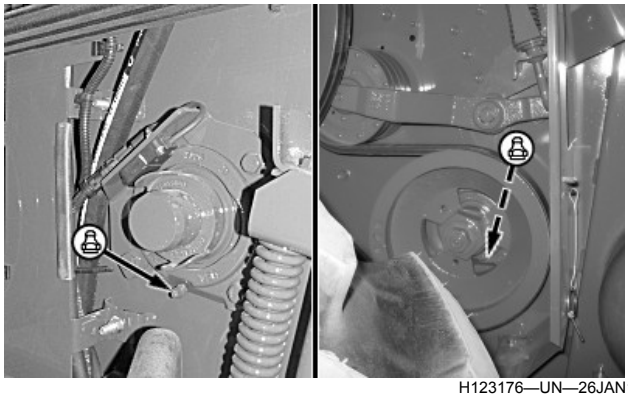
A—Pipe Plug

IMPORTANT: Remove pipe plug (A) and install grease fitting. Pump 40—45 shots of grease into fitting. DO NOT OVER GREASE. Remove grease fitting and reinstall pipe plug.

1. Close sheaves (high speed) before greasing at pipe plug in the outer sheave hub.
2. Rotate sheave for pipe plug access.
3. Cycle cylinder speed to distribute grease if operated at high speed all the time.

OUO6075,0004862-19-18DEC17

Feed Accelerator Bearings



H123176—UN—26JAN18

Left-Hand Side / Right-Hand Side

Rotate sheaves to access and grease fittings.

OUO6075,000488A-19-26JAN18

Service Interval Chart—Every 400 Hours (Continued)



H119654—UN—17OCT16

Legend	Service	Every 400 Hours
A	Grease Tailings Auger Drive Slip Clutch (S760 and S770 Machines)	•
B	Grease Conveyor Auger Drive Slip Clutch	•
C	Grease Right-Hand Side Lube Bank	•
D	Grease Overshot Beater Bearings (Optional) (S770, S780, S785, and S790 Machines)	•
E	Grease Discharge Beater Bearings	•
F	Grease Cleaning Fan Shaft Bearings	•
G	Grease Rear Axle Tie Rod	•
H	Grease Spreader Disk (If Equipped)	•
I	Check Overshot Beater Gear Case Oil (Optional) (S770, S780, S785, and S790 Machines)	•
J	Check Separator Drive Oil	•
K	Check Final Drive Oil	•

OUO6075,00049BA-19-30MAY18

Tailings Auger Drive Slip Clutch (S760 and S770 Machines)



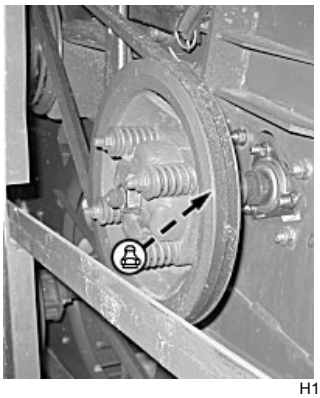
H115720—UN—31AUG15

IMPORTANT: Do not over grease.

Rotate sheave assembly to access fitting.

OUO6075,0004433-19-17JAN17

Conveyor Auger Drive Slip Clutch



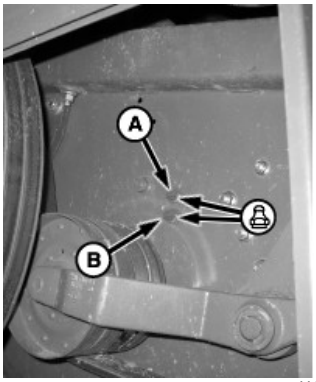
H115721—UN—31AUG15

IMPORTANT: Do not over grease.

Rotate sheave assembly to access fitting.

OUO6075,0004434-19-17JAN17

Right-Hand Side Lube Bank



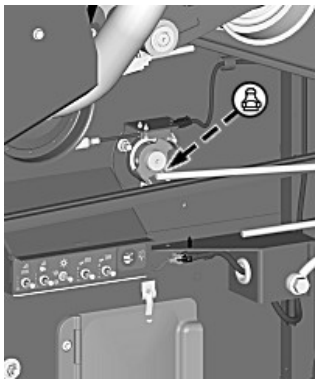
H115722—UN—31AUG15

A—Primary Countershaft Bearing
B—Separator Bearing

Grease fittings to lubricate primary countershaft bearing (A) and separator bearing (B).

OUO6075,0004435-19-17JAN17

Overshot Beater Bearings (Optional) (S770, S780, S785, and S790 Machines)

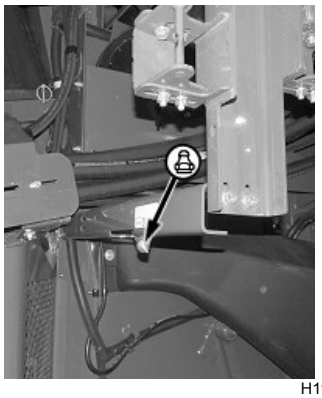


H123397—UN—09FEB18

Grease the fitting (both sides).

OUO6075,00048A7-19-09FEB18

Discharge Beater Bearings

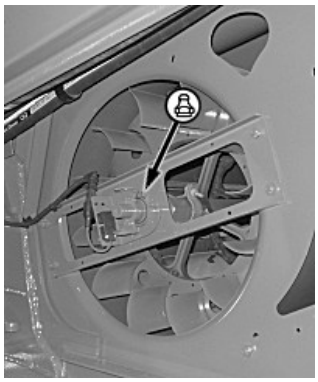


H115724—UN—31AUG15

Grease the fitting (both sides).

OUO6075,0004693-19-21MAR17

Cleaning Fan Shaft Bearings

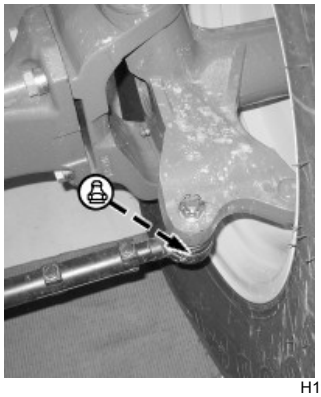


H123398—UN—09FEB18

Grease the fitting (both sides).

OUO6075,00048A8-19-09FEB18

Rear Axle Tie Rod

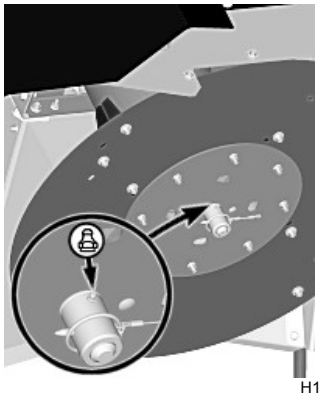


H115726—UN—31AUG15

Grease the fitting (both sides) on power steering rod end ball joint.

OUO6075,0004695-19-21MAR17

Spreader Disk (If Equipped)

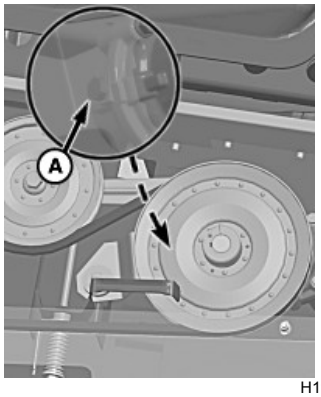


H115727—UN—31AUG15

Grease the fitting (both sides) to prevent hubs from corroding to shafts.

OUO6075,0004696-19-21MAR17

Overshot Beater Gear Case Oil (Optional) (S770, S780, S785, and S790 Machines)



H115728—UN—31AUG15

A—Plug

Remove plug (A) and check oil level. Add oil as needed.

OUO6075,00046D6-19-28MAR17

Separator Drive Oil



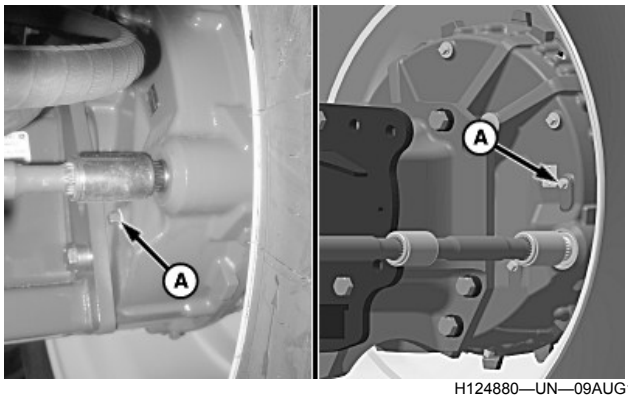
H115729—UN—31AUG15

A—Dipstick

Remove dipstick (A) and check oil level. Oil level should be between grooves on dipstick. Add oil as needed.

OUO6075,000443C-19-17JAN17

Final Drive Oil



H124880—UN—09AUG18

Single Tire Configuration and HillMaster™ (Left) / Dual Tire Configuration (Right)

A—Plug

IMPORTANT: HillMaster™ Machines: When checking final drive oil level, warn bystanders to stay clear of machine while leveling.

NOTE: HillMaster™ Machines: For oil level accuracy, final drives must be positioned so that final drive input shaft is on the same level as the axle driveshaft.

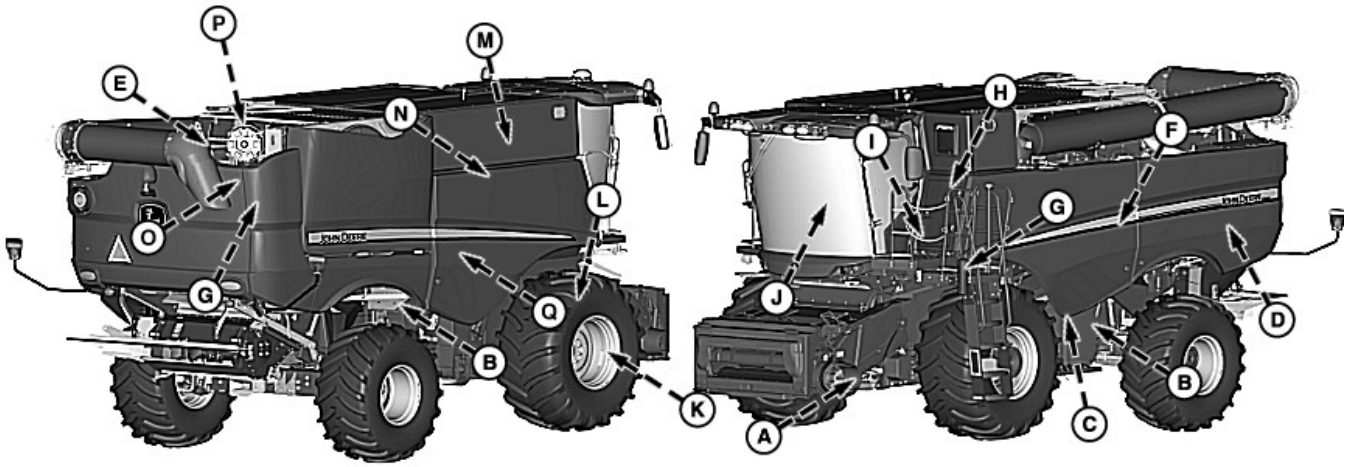
Remove plug (A) and check oil level (both sides). Oil

HillMaster is a trademark of Deere & Company

should be within 12 mm (1/2 in) of the bottom of the hole.
Add oil as needed.

OUO6075,0004A17-19-15AUG18

Service Interval Chart—Every 400 Hours (Continued)



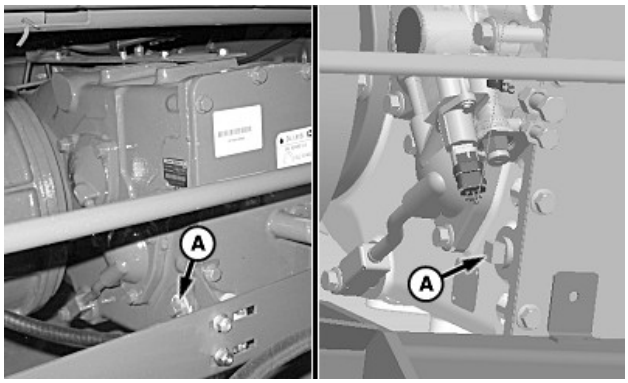
H123514—UN—16FEB18

Legend	Service	Every 400 Hours
A	Check Transmission Oil (S760 and S770 Non-ProDrive™ Machines) Verify Length of Park Brake Cylinder Cables (S760 and S770 Push-Button Shift Transmission Machines)	•
B	Service/Clean Batteries	•
C	Replace Hydraulic/Hydrostatic Filter (S760 and S770 Machines)	•
D	Replace Hydrostatic Charge Filter (S760 and S770 Non-ProDrive™ Machines) Replace Hydrostatic Charge Filter (S760 and S770 ProDrive™ Machines)	•
E	Replace Hydrostatic Charge Filter (S780, S785, and S790 ProDrive™ Machines Replace Main Engine Gear Case Filter (S760 and S770 Non-ProDrive™ Machines) Replace Main Engine Gear Case Filter (S760 and S770 ProDrive™ Machines)	•
F	Check Engine Debris Management Air Filter (Final Tier 4/Stage V)	•
G	Inspect/Charge/Replace Fire Extinguishers	•
H	Check Primary Countershaft Gear Case Oil (Fixed Speed and Variable Speed Feeder House Drive)	•
I	Check Brake Fluid (S760 and S770 Non-ProDrive™ Machines)	•
J	Inspect Seat Belts	•
K	ProDrive/Main Engine Gear Case Lube Filter (S760 and S770 ProDrive™ Machines) ProDrive/Main Engine Gear Case Lube Filter (S780, S785, and S790 ProDrive™ Machines)	•
L	Grease Feeder House Slip Clutch	•
M	Clean Multi-Speed Feeder House Drive (S770, S780, S785, and S790 Machines)	•
N	Check Loading Auger Gear Case Oil	•
O	Replace Diesel Exhaust Fluid (DEF) Tank Breather (Final Tier 4/Stage V) Replace Fuel Tank Breather	•
P	Check Air Filter Elements	•
Q	Remove and Clean Moisture Sensor (If Equipped)	•

ProDrive is a trademark of Deere & Company

OUO6075,00048B4-19-30MAY18

Transmission Oil (S760 and S770 Non-ProDrive™ Machines)



H115752—UN—02SEP15

Mechanical Shift / Push-Button Shift

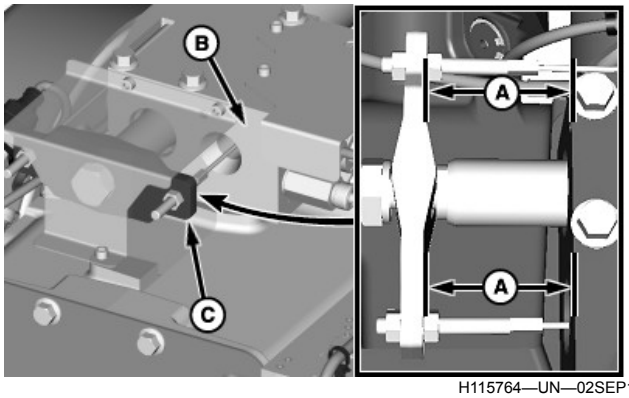
A—Plug

Remove plug (A) and check oil level.

Add oil as needed to within 12 mm (1/2 in) of bottom of hole.

OUO6075,000443F-19-17JAN17

Park Brake Cylinder Cables (S760 and S770 Push-Button Shift Transmission Machines)



H115764—UN—02SEP15

A—Distance
B—Actuator Housing
C—Balancer

NOTE: Engage park brake (piston extended—spring applied).

Measure and verify that distance (A) from the actuator housing (B) to balancer (C) on both sides is within specification.

Specification

Park Brake Cable—Torque. . . . . 37-1/2 ± 2-1/2 mm (1-31/64 ± 3/32 in)

CAUTION: Park brake cylinder cables are under extreme pressure. Cables MUST be adjusted by your John Deere dealer.

If cables need adjusted, see your John Deere dealer.

OUO6075,0004440-19-17JAN17

Batteries



H115755—UN—02SEP15

Style A / Style B

NOTE: Batteries are on the right-hand side or the left-hand side depending on the machine model.

1. Clean top of batteries and check level in each cell.
2. Fill to bottom of the filler neck with distilled water if needed.
3. Clean battery posts, cables, and tighten connections as needed.

OUO6075,0004442-19-17JAN17

Hydraulic/Hydrostatic Filter (S760 and S770 Machines)



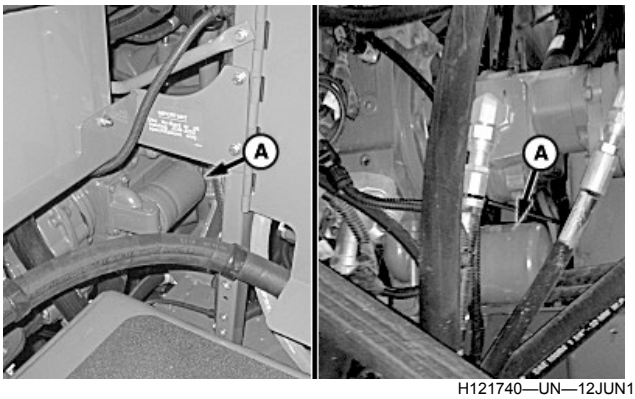
H115753—UN—02SEP15

NOTE: It is not necessary to drain system when replacing filters.

1. Remove and replace filter (A).
2. Coat seal of the new filter with oil.
3. Install filter. Hand tighten, then tighten 1/2 turn more.

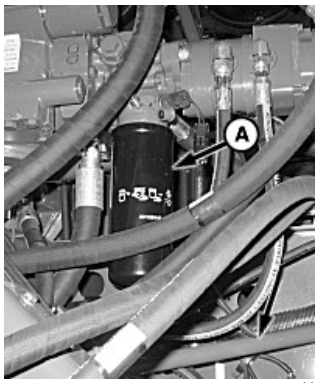
OUO6075,0004766-19-12JUN17

Hydrostatic Charge Filter



H121740—UN—12JUN17

Style A / Style B



H121741—UN—12JUN17

Style C

NOTE: Depending on machine configuration, style and location of Hydrostatic Charge Filter varies.

It is not necessary to drain system when replacing filters.

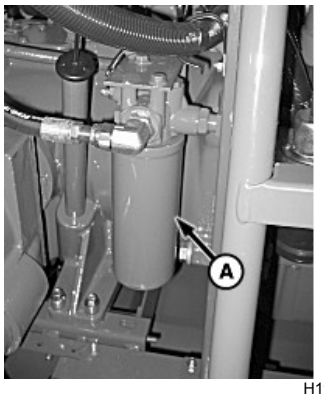
1. Remove filter (A).
2. Replace filter and coat new seal with oil.
3. **Style A and Style B:** Hand tighten, then tighten to specification.

Specification	
Hydrostatic Charge Filter—Torque	45 N·m (33 lb·ft)

Style C: Hand tighten, then tighten 1/2 turn more.

OUO6075,0004765-19-12JUN17

Main Engine Gear Case Filter



H115762—UN—02SEP15

A—Filter

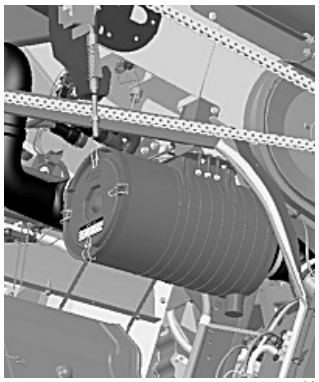
NOTE: Depending on machine configuration, main engine gear case filter is on different areas of the machine. See Service Interval Chart—Every 400 Hours (Continued) for further information.

It is not necessary to drain system when replacing filters.

1. Remove and replace filter (A).
2. Coat new seal on the filter with oil.
3. Install filter by hand tightening, then tighten 1/2 turn more.

OUO6075,00046D8-19-28MAR17

Engine Debris Management Air Filter (Final Tier 4/Stage V)



H115760—UN—02SEP15

IMPORTANT: When air filter restricted indicator is shown on display, service primary filter.

Check safety filter for plugging.

OUO6075,00047F9-19-15NOV17

Fire Extinguishers



H123657—UN—02MAR18

CAUTION: Inspect fire extinguisher straps and mounting hardware at least once a year. If fire extinguisher straps or mounting hardware shows any sign of damage or unusual wear, discoloration or abrasion, the entire strap and hardware must be replaced immediately. For your safety, replace fire extinguisher components with replacement parts approved for your machine. See your John Deere dealer.

Inspect fire extinguishers (front and rear) by following maintenance instructions on the fire extinguisher label.

Recharge or replace as necessary.

OUO6075,000490D-19-02MAR18

Primary Countershaft Gear Case Oil (Fixed Speed and Variable Speed Feeder House Drive)



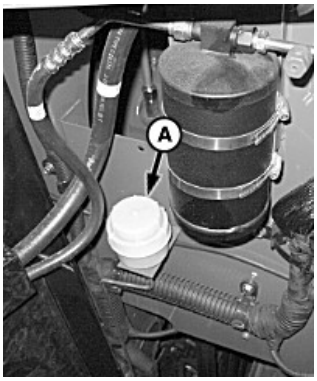
H115761—UN—02SEP15

A—Dipstick

Check primary countershaft gear case oil level with dipstick (A). Add oil as needed.

OUO6075,00046D9-19-29MAR17

Brake Fluid (S760 and S770 Non-ProDrive™ Machines)



H115754—UN—02SEP15

A—Reservoir Cap

1. Look through the reservoir cap (A) and check brake fluid.

NOTE: Do not let dirt get into brake fluid.

2. Add brake fluid to 6 mm (1/4 in) from top.

OUO6075,0004449-19-16JAN17

Seat Belts



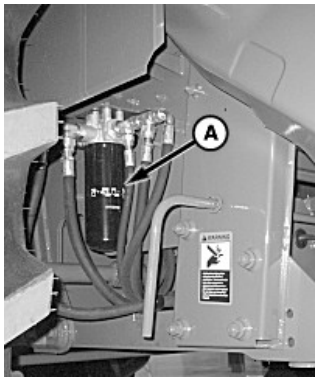
H115757—UN—02SEP15

CAUTION: Inspect seat belt and mounting hardware at least once a year. If seat belt system, including mounting hardware, buckle, belt, or retractor, shows any sign of damage or unusual wear, discoloration or abrasion, the entire seat belt should be replaced immediately. For your safety, replace seat belt system with replacement parts approved for your machine. See your John Deere dealer.

Inspect seat belt for damage.

OUO6075,0004698-19-21MAR17

ProDrive™/Main Engine Gear Case Lube Filter (ProDrive™ Machines)



H115763—UN—02SEP15

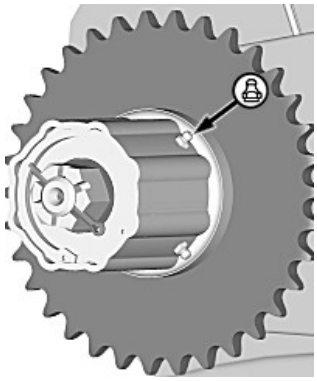
A—Filter

NOTE: It is not necessary to drain system when replacing filters.

1. Remove and replace filter (A).
2. Coat new seal on the filter with oil.
3. Install filter by hand tightening, then tighten 1/2 turn more.

OUO6075,00046DA-19-28MAR17

Feeder House Slip Clutch

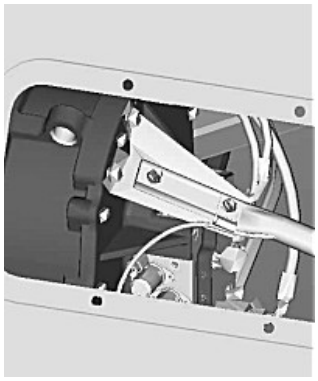


H115747—UN—01SEP15

Grease fitting on the upper feeder house slip clutch, until grease is forced out past seal.

OUO6075,000444C-19-16JAN17

Multi-Speed Feeder House Drive (S770, S780, S785, and S790 Machines)



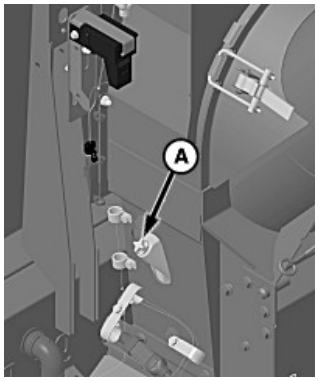
H115758—UN—02SEP15

CAUTION: Dirt, oil, chaff, and crop debris in this area are all fire hazards. Direction of wind, type of crop and its moisture content can all have an effect on where and how much chaff and debris accumulate. Do not clean area with engine running.

Remove access door on the frontside of the grain tank and clean material around gear case.

OUO6075,0004699-19-28MAR17

Loading Auger Gear Case Oil



H123565—UN—22FEB18

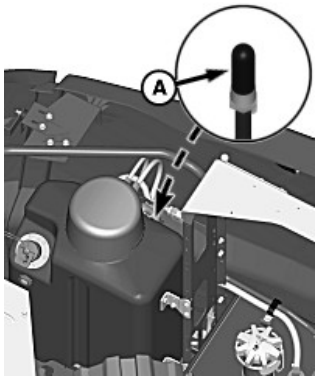
A—Dipstick

NOTE: Loading auger gear case does not need drained.

Check oil level with dipstick (A) and add oil as needed.

OUO6075,00048BF-19-22FEB18

Diesel Exhaust Fluid (DEF) Tank Breather (Final Tier 4/Stage V)



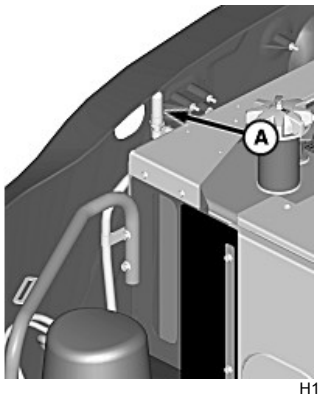
H115679—UN—28AUG15

A—Diesel Exhaust Fluid (DEF) Tank Breather

Remove and replace Diesel Exhaust Fluid (DEF) tank breather (A).

OUO6075,00047FA-19-15NOV17

Fuel Tank Breather



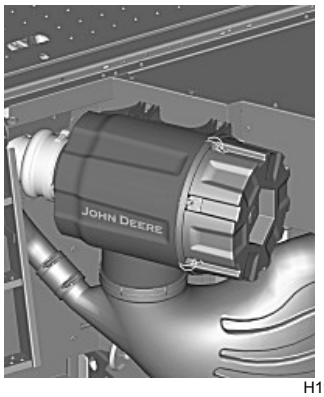
H115678—UN—28AUG15

A—Breather

Remove and replace fuel tank breather (A).

OUO6075,000469A-19-21MAR17

Air Filter Elements



H115759—UN—02SEP15

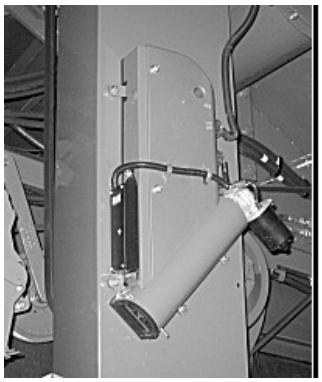
IMPORTANT: When engine air filter restricted indicator is shown on display, service primary air filter.

Check safety filter for plugging.

Check for leaks and for collapse of aspirator tube.

OUO6075,0004451-19-16JAN17

Moisture Sensor (If Equipped)





H115765—UN—02SEP15

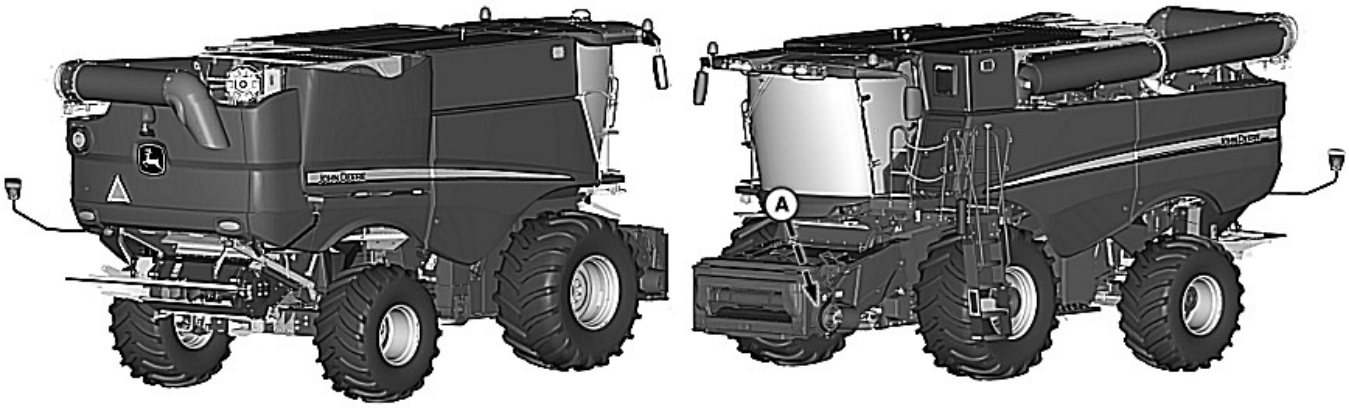
A—Moisture Sensor Module

IMPORTANT: Static electricity can damage the moisture sensor module when touching the sensing plate. To avoid damage, ensure that you always touch a metal surface on the machine with at least one hand or arm before working on or cleaning the moisture sensor module.

Remove and clean the moisture sensor module (A) when operating in weeds, green crops, or very small grains (canola).

OUO6075,0004452-19-16JAN17

Service Interval Chart—Every 800 Hours

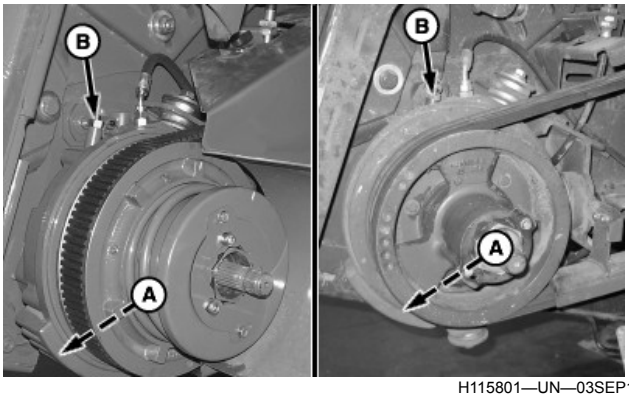


H119640—UN—13OCT16

Legend	Service	Every 800 Hours
A	Change Feeder House Reverser Gear Case Oil	•

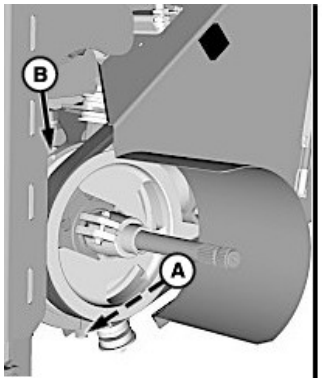
OUO6075,00046DD-19-28MAR17

Feeder House Reverser Gear Case



H115801—UN—03SEP15

Variable Speed / Multi-Speed Reverser Gear Case



H115802—UN—03SEP15

Fixed Speed

A—Plug
B—Dipstick

1. Raise feeder house and lower safety stop.

NOTE: See Fuels and Lubricants section for oil recommendations.

2. Drain oil at plug (A), wipe plug clean and refill dipstick opening (B).

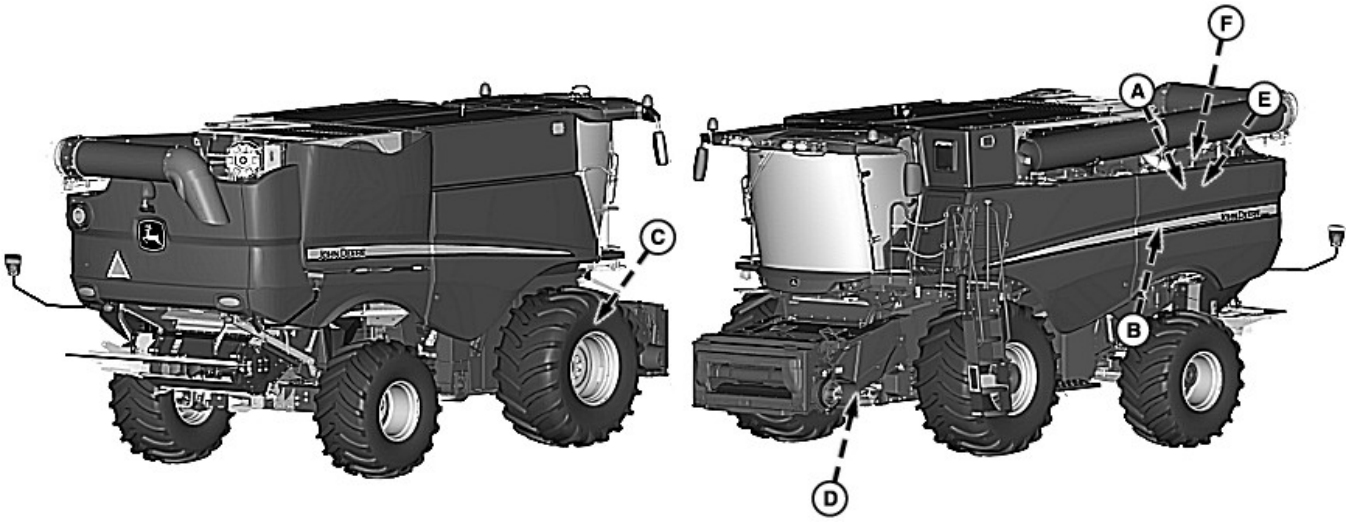
NOTE: Gear cases with an oil cooler require gear case be run for several minutes. This ensures that the cooler is filled with oil.

Oil level must show on knurled part of dipstick.

3. Check oil level with the feeder house raised up.

OUO6075,00046DE-19-28MAR17

Service Interval Chart—Every 1000 Hours (ProDrive™ Machines)

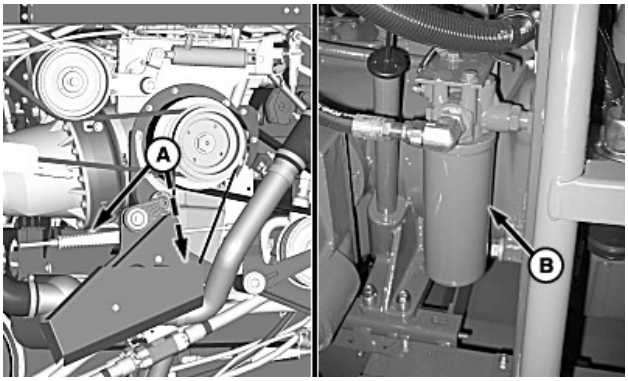


H119641—UN—13OCT16

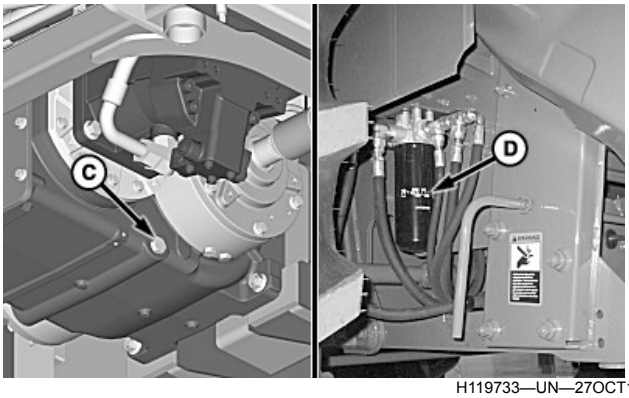
Legend	Service	Every 1000 Hours
A, B, C, D, E	Change Main Engine Gear Case Oil	•
F	Replace Hydraulic Reservoir Filter (S780, S785, and S790 Machines)	•

OUO6075,00046DF-19-28MAR17

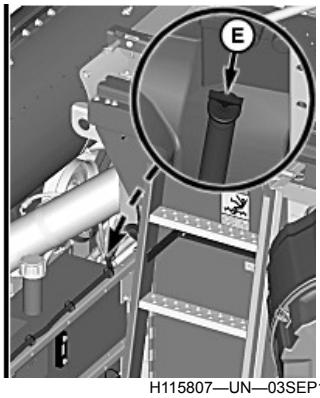
Change Main Engine Gear Case Oil



H115805—UN—03SEP15



H119733—UN—27OCT16



H115807—UN—03SEP15

A—Plugs
B—Filter
C—Plug
D—Filter
E—Dipstick

1. Main Engine Gear Case Oil - Drain oil at plugs (A).
2. **S760 and S770 ProDrive™ Machines:** Remove and replace filter (B). Coat seal on the new filter with oil. Hand tighten, then tighten 1/2 turn more.
3. **ProDrive™ Machines:** Transmission Oil - Drain oil at plug (C).
4. ProDrive™/Main Engine Gear Case Lube Filter -

ProDrive is a trademark of Deere & Company

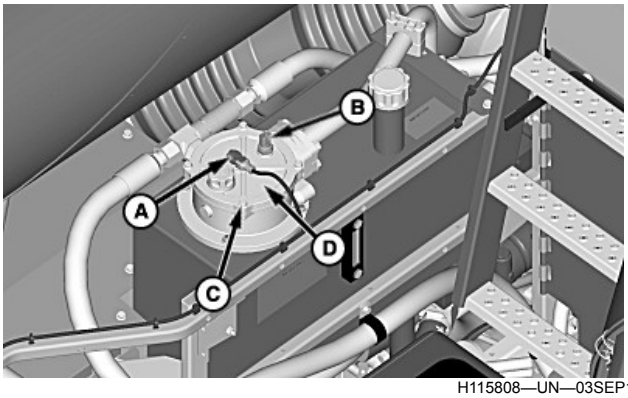
Remove and replace filter (D). Coat seal on the filter with oil. Hand tighten, then tighten 1/2 turn more.

NOTE: Overfilling main engine gear case may cause oil to force dipstick tube out when machine is running.

5. **Fill Main Engine Gear Case**
   1. Fill until oil is at the bottom line on dipstick (E).
   2. Install dipstick and run engine for 1 minute minimum.
   3. Shut OFF engine and let machine sit for 5 minutes allowing air to settle from oil.
   4. Remove dipstick and check oil level. Add oil until oil level is at the top line on dipstick.
   5. Repeat procedures until oil level remains at the top line on dipstick.

OUO6075,0004940-19-12APR18

Hydraulic Reservoir Filter (S780, S785, and S790)



H115808—UN—03SEP15

A—Wiring Harness Connector
B—Sensor
C—Cap Screws
D—Filter Cap

NOTE: Clean area around the filter cap before removing to prevent system contamination. It is not necessary to drain system when replacing filter.

Hydraulic Reservoir Filter - Remove and replace filter when performance decline is noticed or diagnostic trouble code is generated.

1. Disconnect wiring harness connector (A) from sensor (B).

CAUTION: Remove cap screws equally to relieve spring pressure from the filter cap.

NOTE: Inspect and replace O-ring underneath the filter cap as needed.

2. Remove and retain cap screws (C) and filter cap (D).
3. Remove and retain the spring on top of filter.
4. Remove and discard filter.
5. Install replacement filter as shown with previously removed spring.
6. Install previously removed filter cap.
7. Use filter cap to compress spring and install previously removed cap screws.

IMPORTANT: Verify that O-ring remains in place when installing filter cap.

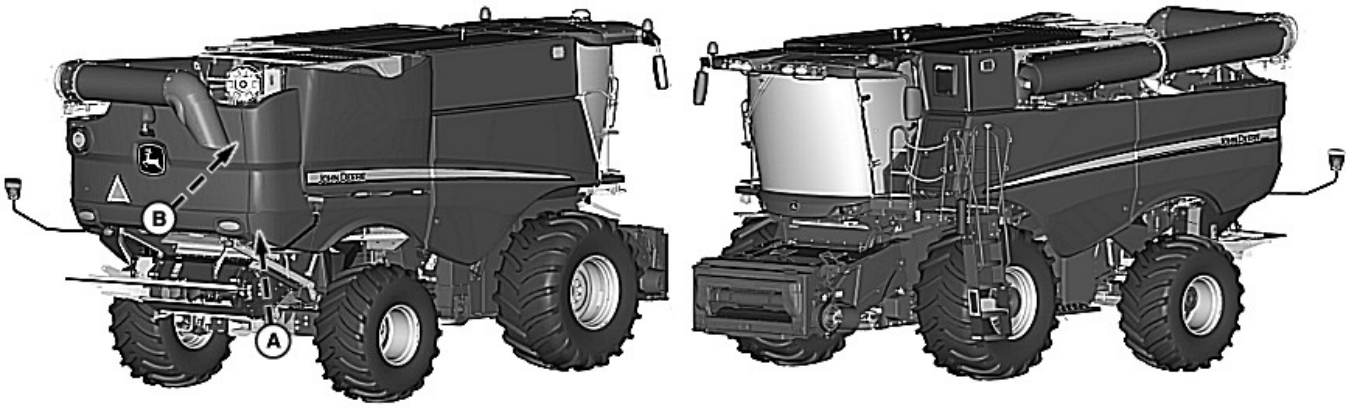
8. Tighten cap screws to specification.

Specification	
Cap Screws—Torque	7 N·m (62 lb·in)

9. Connect wiring harness to sensor.

OUO6075,00044C6-19-22DEC16

Service Interval Chart—Every 1200 Hours or Three Years

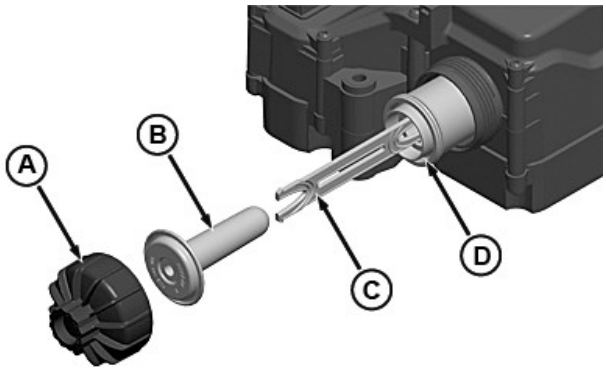


H122764—UN—21NOV17

Legend	Service	Every 1200 Hours or Three Years
A	Replace Diesel Exhaust Fluid (DEF) Dosing Filter (Final Tier 4/Stage V)	•
B	Replace Diesel Exhaust Fluid (DEF) Tank Header Suction Screen (Final Tier 4/Stage V)	•

OUO6075,0004842-19-11JAN18

Changing Diesel Exhaust Fluid (DEF) Dosing Unit Filter



RG22534—UN—21MAR13

DEF Dosing Unit Filter

A—DEF Dosing Unit Filter Cover
B—DEF Dosing Unit Filter Equalizing Element
C—DEF Dosing Unit Filter Tool (supplied with new filter)
D—DEF Dosing Unit Filter

CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. Reference the Materials Safety Data Sheet (MSDS) for additional information.

IMPORTANT: If DEF is spilled or contacts any surface other than the storage tank, immediately clean the surface with clear water. DEF is corrosive to painted and unpainted metallic surfaces and can distort some plastic and rubber components.

Spilled DEF, if left to dry or if only wiped away with a cloth, leaves a white residue. Improperly cleaned DEF spill can interfere with diagnosis of Selective Catalytic Reduction (SCR) system leakage problems.

NOTE: DEF dosing unit filter and tank header suction screen must be replaced together every 1200 hours or 36 months, which ever occurs first.

Servicing DEF dosing unit filter may require removing additional covers or components. See Access DEF Dosing Unit for location information.

1. Remove DEF dosing unit filter cover (A).
2. Remove and discard DEF dosing unit filter equalizing element (B).

NOTE: DEF dosing unit filter tool (C) is supplied with replacement filter.

3. Insert “Black” end of DEF dosing unit filter tool (C) into DEF dosing unit filter (D) until CLICK is felt or heard indicating DEF dosing unit filter tool is fully engaged.

NOTE: A tool such as a screwdriver can be inserted into DEF dosing unit filter tool slot to assist removal.

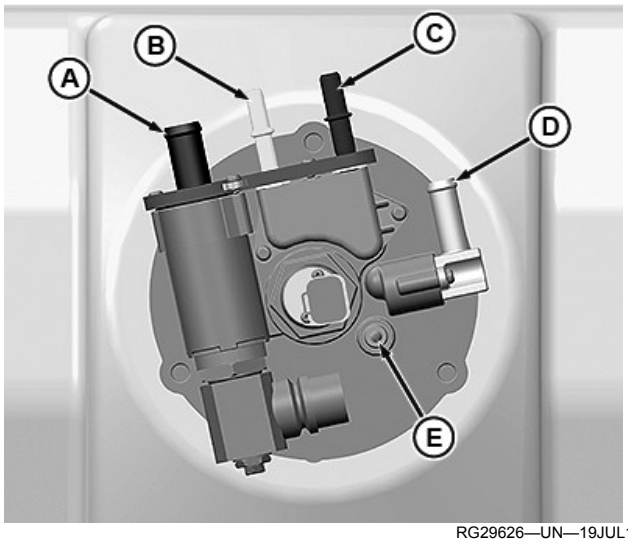
4. Pull DEF dosing unit filter tool and DEF dosing unit filter from DEF dosing unit. Discard DEF dosing unit filter and DEF dosing unit filter tool.
5. Clean DEF dosing unit threads and mating surfaces with distilled water.
6. Lubricate DEF filter O-rings with clean DEF. Carefully insert DEF dosing unit filter into DEF dosing unit.
7. Install new DEF dosing unit filter equalizing element into DEF dosing unit filter.
8. Install DEF dosing unit filter cover and tighten to specification.

Specification

DEF Dosing Unit Filter Cover—Torque. . . . . 23 N·m (204 lb·in)

OUO6075,000486F-19-09JAN18

Replace Diesel Exhaust Fluid (DEF) Tank Header Suction Screen



RG29626—UN—19JUL17

DEF Tank Header Fittings

A—Coolant Inlet Fitting
B—DEF Return Line Fitting
C—DEF Supply Line Fitting
D—Coolant Outlet Fitting
E—Vent Line Fitting

CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. Reference the Materials Safety Data Sheet (MSDS) for additional information.

IMPORTANT: If DEF is spilled or contacts any surface other than the storage tank, immediately clean the surface with clear water. DEF is corrosive to painted and unpainted metallic surfaces and can distort some plastic and rubber components.

Spilled DEF, if left to dry or if only wiped away with a cloth, leaves a white residue. Improperly cleaned DEF spill can interfere with diagnosis of Selective Catalytic Reduction (SCR) system leakage problems.

NOTE: DEF tank header suction screen must be replaced every 1200 hours or 36 months, whichever occurs first. The DEF dosing unit filter must be replaced at the same time.

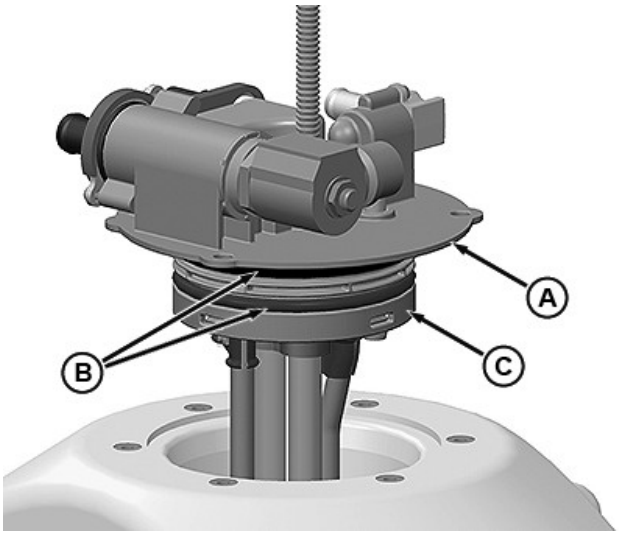
Accessing DEF tank header may require removing additional covers or components. See Access DEF Tank Header for location information.

1. Clear all debris from area around DEF tank header.

CAUTION: Explosive release of fluids from pressurized cooling system can cause serious burns. Before disconnecting coolant hoses, wait until engine coolant is cool enough to touch the radiator or surge tank cap with bare hands. Slowly loosen radiator or surge tank cap to first stop to relieve pressure.

IMPORTANT: Cap and plug all lines and fittings to prevent contamination. Coolant in DEF causes Selective Catalytic Reduction (SCR) system performance issues.

2. Disconnect coolant hoses from fittings (A and D).
3. Disconnect DEF return and supply lines from fittings (B and C).
4. Disconnect DEF tank header electrical connectors.
5. Remove vent hose from fitting (E).

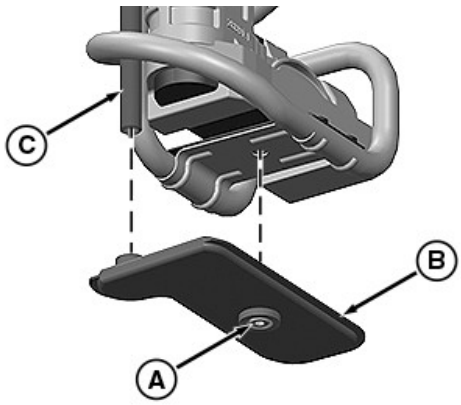


RG29627—UN—19JUL17

DEF Tank Header

A—DEF Tank Header Mounting Flange
B—O-Ring (2 used)
C—DEF Tank Header

6. Remove cap screws from DEF tank header mounting flange (A).
7. Remove DEF tank header (C) from tank.
8. Remove O-rings (B) and inspect for damage.
9. Replace O-rings (B) if necessary.



RG28054—UN—29MAR16

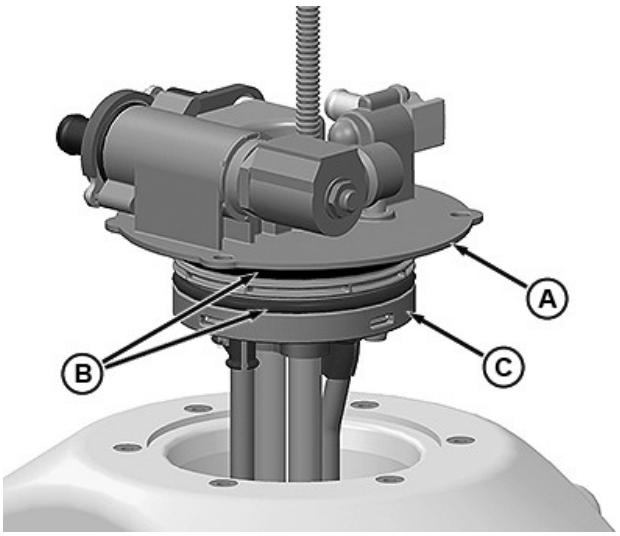
DEF Suction Screen

A—Screw
B—Suction Screen
C—Suction Tube

10. Remove screw (A) that secures suction screen (B) to suction tube (C).
11. Remove suction screen (B).
12. Install suction screen (B) to suction tube (C).
13. Install screw (A) and tighten to specification.

Specification

DEF Suction Screen
Screw—Torque. . . . . 1 N·m (11 lb·in)



RG29627—UN—19JUL17

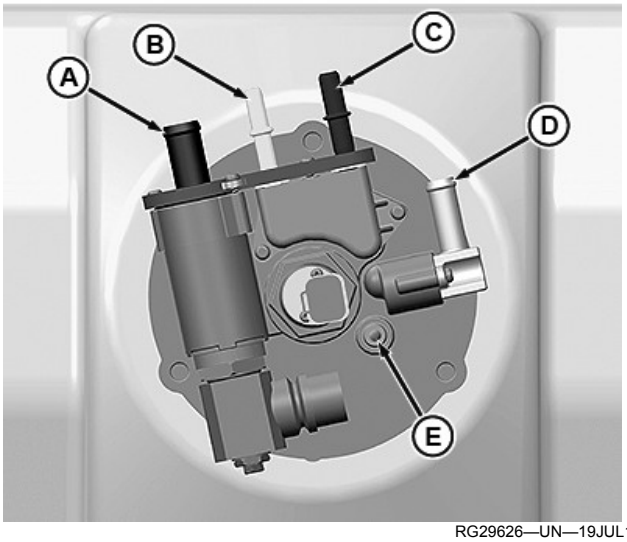
DEF Tank Header

A—DEF Tank Header Mounting Flange
B—O-Ring (2 used)
C—DEF Tank Header

14. Lubricate O-rings (B) with clean DEF.
15. Insert DEF header (C) into tank and align mounting holes on mounting flange (A) with holes in tank.
16. Install stainless steel M6 cap screws into mounting holes and tighten to specification.

Specification

DEF Tank Header Cap
Screw—Torque. . . . . 9 N·m (80 lb·in)



RG29626—UN—19JUL17

DEF Tank Header Fittings

A—Coolant Inlet Fitting
B—DEF Return Line Fitting
C—DEF Supply Line Fitting
D—Coolant Outlet Fitting
E—Vent Line Fitting

17. Connect 9.5 mm (3/8 in) vent hose to fitting (E).
18. Connect 16 mm (5/8 in) coolant hose to coolant inlet fitting (A).
19. Connect 13 mm (1/2 in) coolant hose to coolant outlet fitting (D).

IMPORTANT: Push DEF line onto fitting until you hear a “click”, then lightly pull back to ensure that it is connected and locked in place.

NOTE: DEF supply and return lines have unique sized fittings.

20. Connect DEF return and supply lines to fittings (B and C).
21. Connect DEF tank header electrical connectors.

OUO6075,0004870-19-09JAN18

Service Interval Chart—Every 2000 Hours



H119642—UN—13OCT16

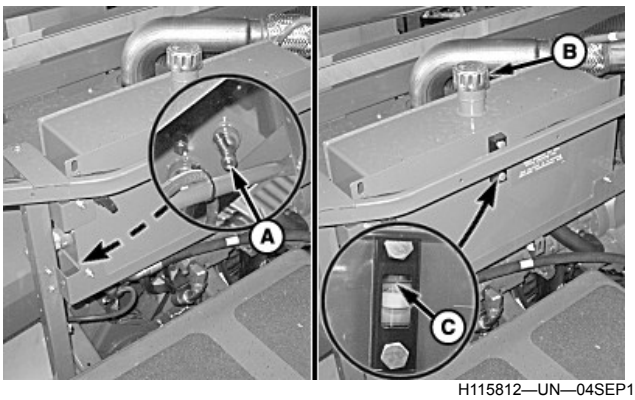
NOTE: SCHEDULED coolant change interval 2 years or 2000 hours if John Deere Cool-Gard™ II or Cool-Gard™ II PG is not used.

Legend	Service	Every 2000 Hours
A	Change Hydraulic/Hydrostatic Reservoir Oil	•
B	Check Engine Valve Backlash[a]	•
C	Check Final Drives Oil (both sides)	•
D	Change Main Engine Gear Case Oil (Non-ProDrive™ Machines)	•
E	Change Separator Drive Oil	•
F	Change Primary Countershaft Gear Case Oil (Fixed Speed and Variable Speed Feeder House)	•
G	Change Transmission Oil (Mechanical Shift and Push-Button Shift Transmission)	•
H	Overshot Beater Gear Case (Optional) (S770, S780, S785, and S790 Machines)	•

ProDrive is a trademark of Deere & Company
[a]See your John Deere dealer for service.

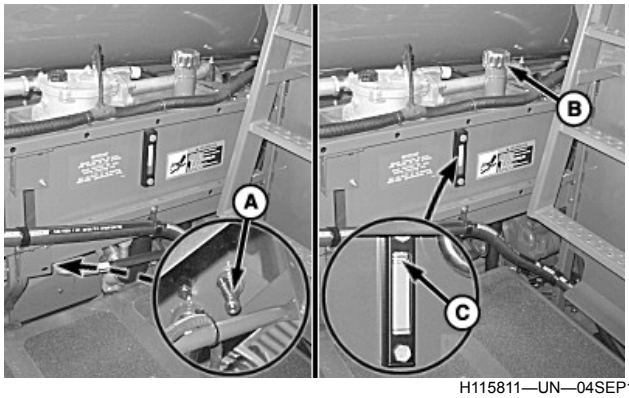
OUO6075,00046E1-19-28MAR17

Hydraulic/Hydrostatic Reservoir Oil



H115812—UN—04SEP15

Style A



H115811—UN—04SEP15

Style B

A—Drain Valve
B—Cap

Cool-Gard is a trademark of Deere & Company

C—Sight Glass

NOTE: Clean hydraulic reservoir area to prevent system contamination. See Specifications section for oil capacity.

1. Open drain valve (A) to drain oil. Close valve once oil is drained.
2. Remove cap (B) and fill hydraulic reservoir until oil level is at top of sight glass (C) with the feeder house fully lowered.

OUO6075,000445A-19-22DEC16

Engine Valve Backlash

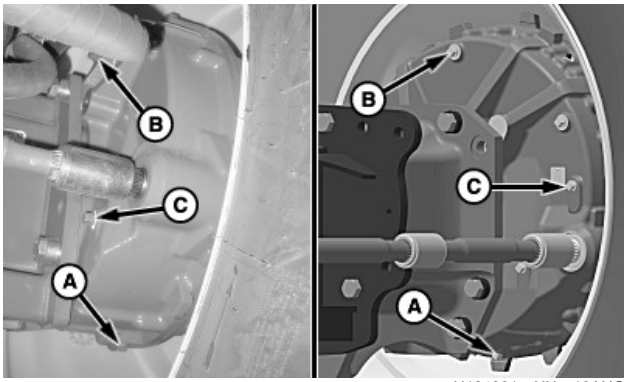


H115813—UN—04SEP15

Have engine valve backlash checked and adjusted if necessary, by your John Deere dealer.

OUO6075,000445B-19-22DEC16

Final Drive Oil



H124881—UN—10AUG18

Single Tire Configuration and HillMaster™ (Left) / Dual Tire Configuration (Right)

A—Drain Plug
B—Fill Plug
C—Check Hole

IMPORTANT: HillMaster™ Machines: When checking final drive oil level, warn bystanders to stay clear of machine while leveling.

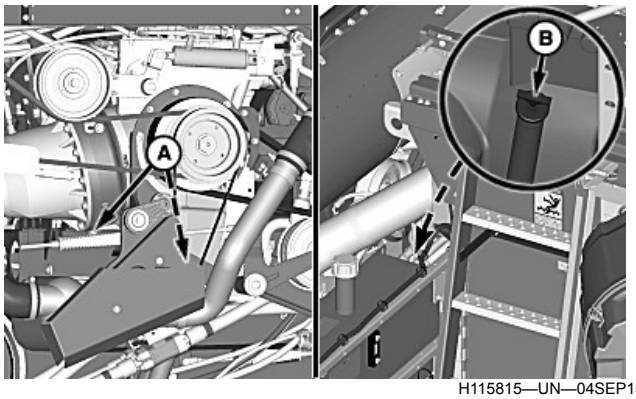
NOTE: HillMaster™ Machines: For oil level accuracy, final drives must be positioned so that final drive input shaft is on the same level as the axle driveshaft.

Remove drain plug (A) on both sides to drain.

Remove fill plug (B) to refill until oil level is within 12 mm (1/2 in) of the bottom check hole (C).

OUO6075,0004A18-19-15AUG18

Main Engine Gear Case Oil (Non-ProDrive™ Machines)



H115815—UN—04SEP15

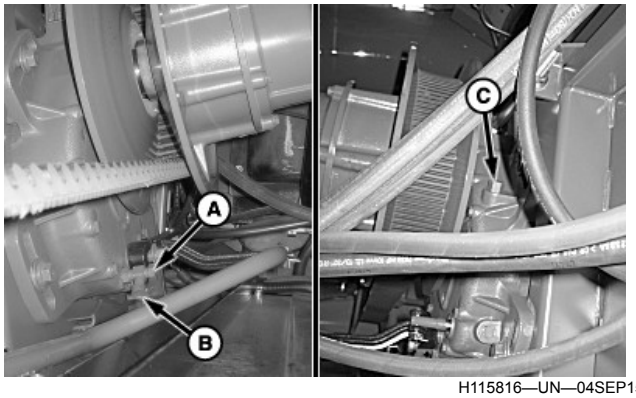
A—Drain Plugs
B—Dipstick

Drain at plugs (A).

Refill and check oil level at dipstick (B).

OUO6075,00046E2-19-28MAR17

Separator Drive Oil



H115816—UN—04SEP15

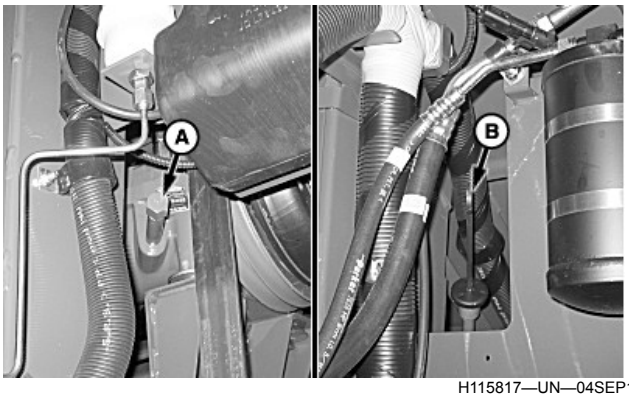
A—Cap
B—Drain Valve
C—Dipstick

HillMaster is a trademark of Deere & Company

1. Remove cap (A) and attach hose to drain valve (B).
2. Open valve to drain.
3. Refill at dipstick (C) as needed.

OUO6075,000445E-19-22DEC16

Primary Countershaft Gear Case Oil (Fixed Speed and Variable Speed Feeder House)



H115817—UN—04SEP15

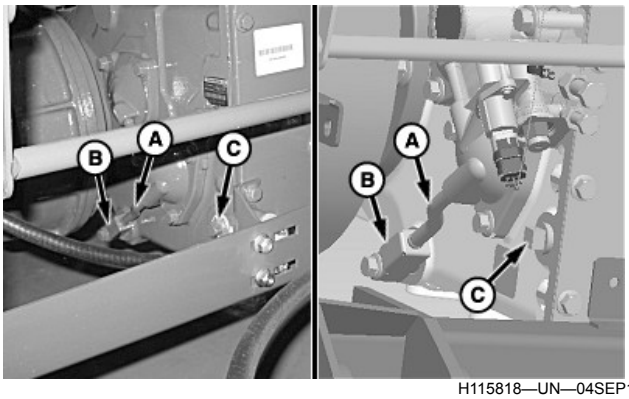
A—Cap
B—Dipstick

Drain at cap (A) and refill at dipstick (B).

Oil level must show on knurled part of dipstick.

OUO6075,00046E3-19-28MAR17

Transmission Oil (Mechanical Shift and Push-Button Shift Transmission)



H115818—UN—04SEP15

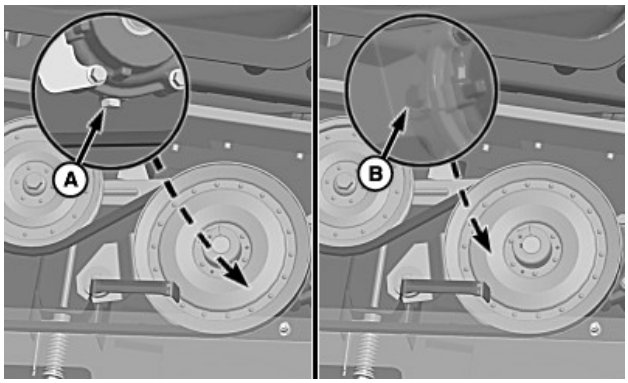
Mechanical Shift / Push-Button Shift

A—Tube
B—Block
C—Check Plug

1. Slide tube (A) out of block (B).
2. Remove block to drain.
3. Remove check plug (C) and refill to within 12 mm (1/2 in) of hole.

OUO6075,0004460-19-22DEC16

Overshot Beater Gear Case Oil (Optional) (S770, S780, S785, and S790 Machines)



H115819—UN—04SEP15

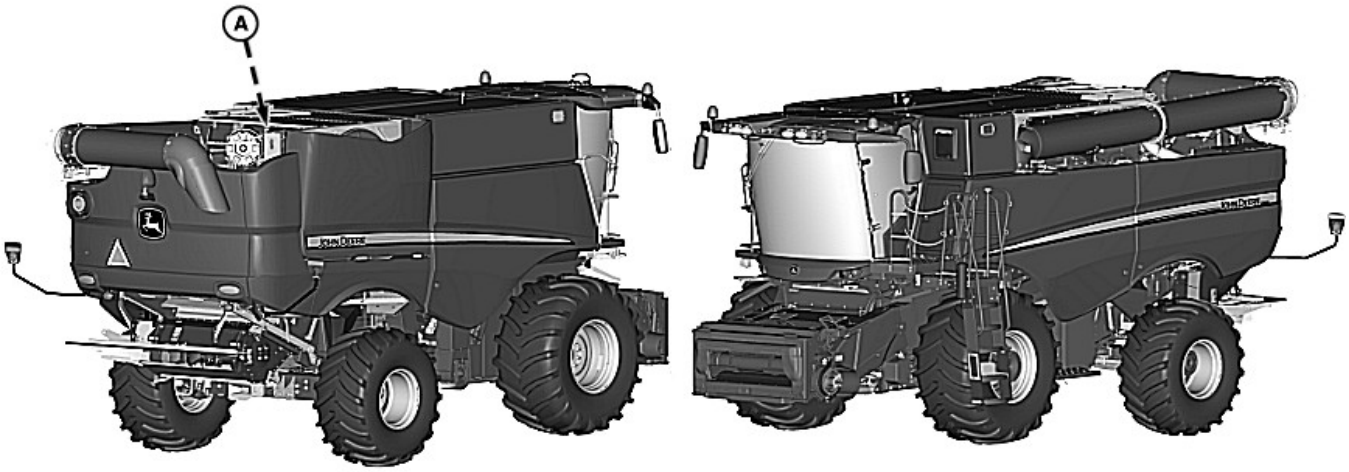
A—Plug
B—Plug

Drain at plug (A) and refill at plug (B). Oil level must be level with the plug hole on the side of the gear case.

OUO6075,00046E4-19-28MAR17

Maintenance—Every 4500 Hours or Five Years

Service Interval Chart—Every 4500 Hours or Five Years

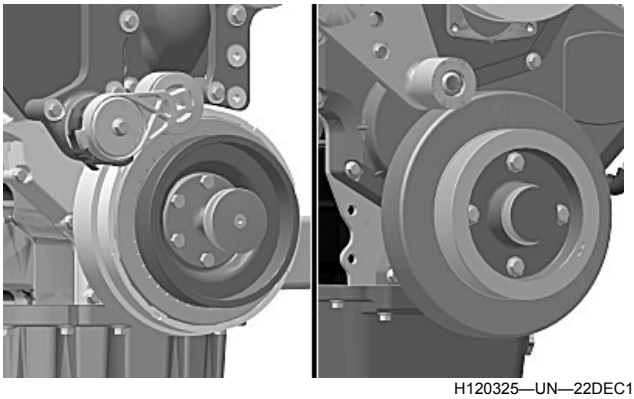


H120324—UN—22DEC16

Legend	Service	Every 4500 Hours or Five Years
A	Replace Front Engine Crankshaft Damper.	•

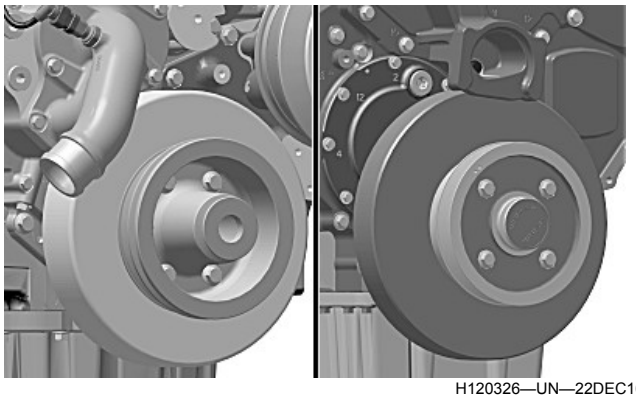
OUO6075,0004575-19-22DEC16

Engine Crankshaft Damper



H120325—UN—22DEC16

Tier 2/Stage II (Style A / Style B)



H120326—UN—22DEC16

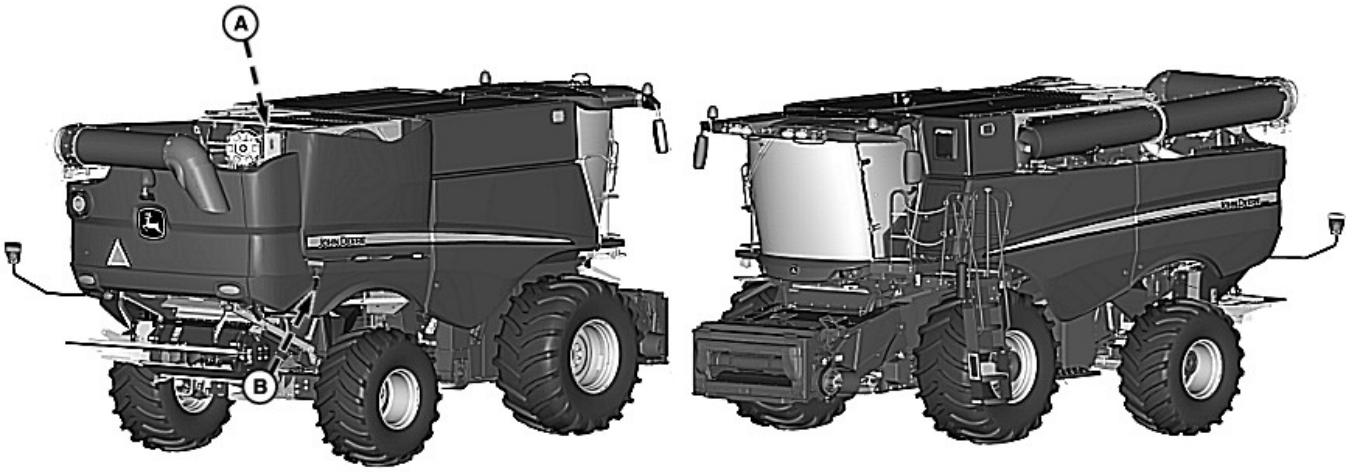
Final Tier 4/Stage V (Style A / Style B)

IMPORTANT: Vibration damper assembly is not repairable and should be replaced every five years or 4500 hours, whichever occurs first.

Have your John Deere dealer replace the front engine crankshaft damper.

OUO6075,00047FE-19-13NOV17

Service Interval Chart—Every 6000 Hours or Six Years



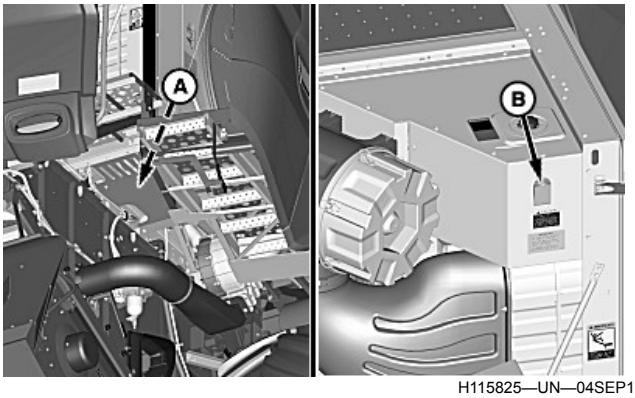
H119645—UN—13OCT16

NOTE: SCHEDULED coolant change interval 6 years or 6000 hours if John Deere Cool-Gard™ II or Cool-Gard™ II PG is used.

Legend	Service	Every 6000 Hours or Six Years
A and B	Drain, Flush, and Refill Engine Cooling System	•

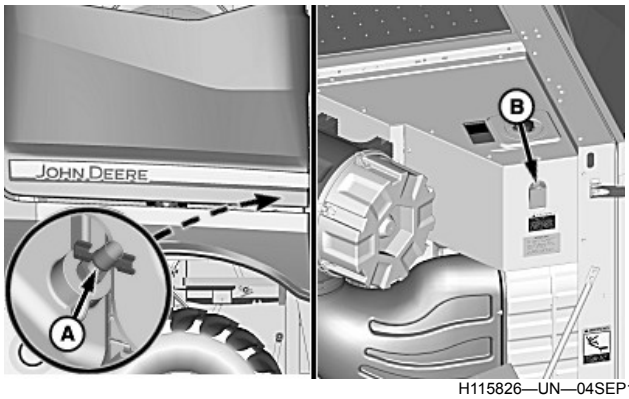
OUO6075,0004465-19-20DEC16

Engine Cooling System



H115825—UN—04SEP15

Tier 2/Stage II (Style A)



H115826—UN—04SEP15

Tier 2/Stage II (Style B) and Final Tier 4/Stage V

A—Drain
B—Surge Tank

NOTE: When Cool-Gard™ II or Cool-Gard™ II PG is used, the drain interval is 6 years or 6000 hours of operation.

Cool-Gard is a trademark of Deere & Company

If a coolant other than Cool-Gard™ II or Cool-Gard™ II PG is used, reduce the drain interval to 2 years or 2000 hours of operation.

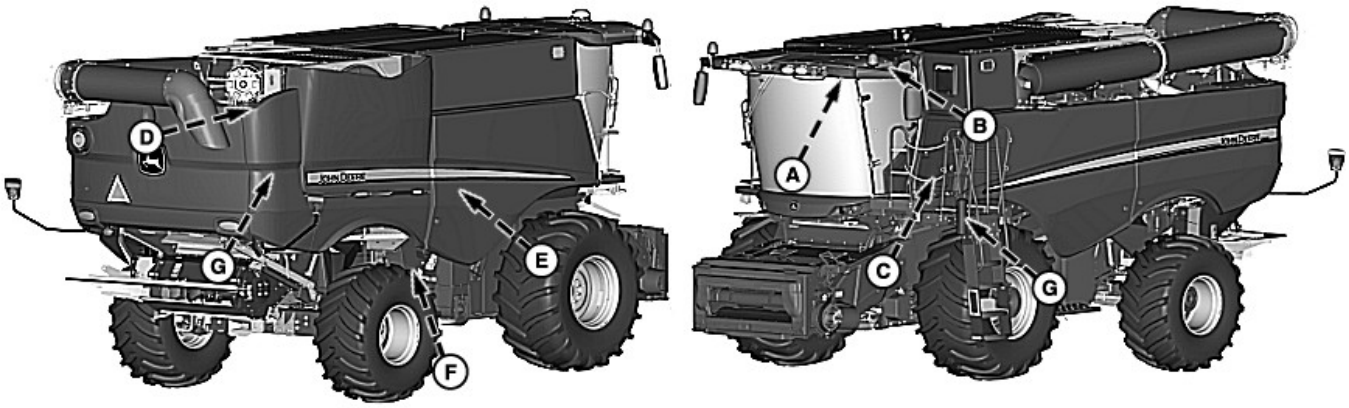
Open drain (A) to remove coolant from the radiator.

Flush and refill surge tank (B) with correct coolant and conditioner. See Maintenance—As Required (Engine Fluids and Filters) section for further information. See Fuels and Lubricants section for coolant recommendations.

Check engine coolant level in the surge tank with engine cold. Level must be up to the "Max Cold" line.

OUO6075,00047FF-19-13NOV17

Service Interval Chart—As Required



H124383—UN—29MAY18

Legend	Service	As Required
A	Clean/Replace Recirculating Filter	•
B	Clean/Replace Cab Fresh Air Filter	•
C	Fill Windshield Washer Reservoir	•
D	Clean Alternator Screen	•
E	Remove and Clean Moisture Sensor (If Equipped) ActiveVision™ Clean Grain Elevator Camera (If Equipped)	•
F	ActiveVision™ Tailings System Camera (If Equipped)	•
G	Inspect/Tighten Fire Extinguisher Bracket Straps (If Equipped)	•

ActiveVision is a trademark of Deere & Company

OUO6075,0004982-19-29MAY18

Recirculating Filter



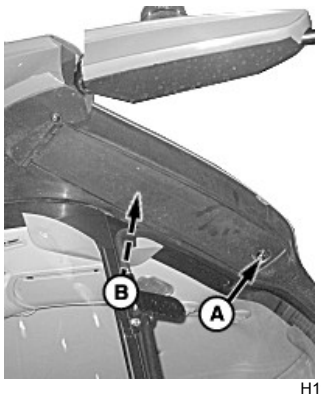
H115668—UN—28AUG15

A—Recirculating Filter

Remove cover to clean or replace recirculating filter (A).

OUO6075,0004468-19-21DEC16

Cab Fresh Air Filter



H115664—UN—28AUG15

A—Knob
B—Fresh Air Filter

NOTE: Cab fresh air filter may require cleaning sooner in dusty conditions.

Turn knob (A) and lower access cover. Remove fresh air filter (B) to clean or replace.

OUO6075,0004469-19-21DEC16

Windshield Washer Reservoir



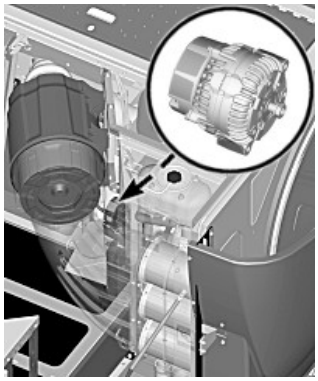
H119647—UN—13OCT16

A—Cap

Open cap (A) and fill windshield washer reservoir.

OUO6075,000446A-19-21DEC16

Alternator Screen

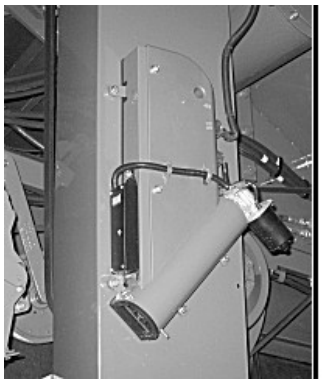


H119648—UN—13OCT16

Clean screen when it is 50% covered with debris

OUO6075,000469C-19-21MAR17

Moisture Sensor (If Equipped)





H115765—UN—02SEP15

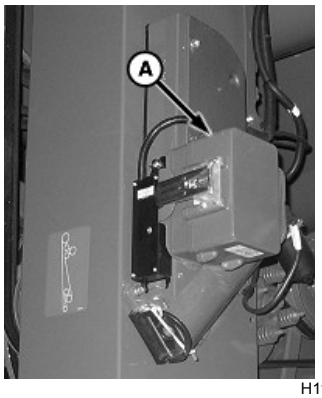
A—Moisture Sensor Module

IMPORTANT: Static electricity can damage the moisture sensor module when touching the sensing plate. To avoid damage, ensure that you always touch a metal surface on the machine with at least one hand or arm before working on or cleaning the moisture sensor module.

Remove and clean the moisture sensor module (A) when operating in weeds, green crops, or very small grains (canola).

OUO6075,000446B-19-21DEC16

ActiveVision™ Clean Grain Elevator Camera (If Equipped)



H119875—UN—01NOV16

A—ActiveVision™ Clean Grain Elevator Camera

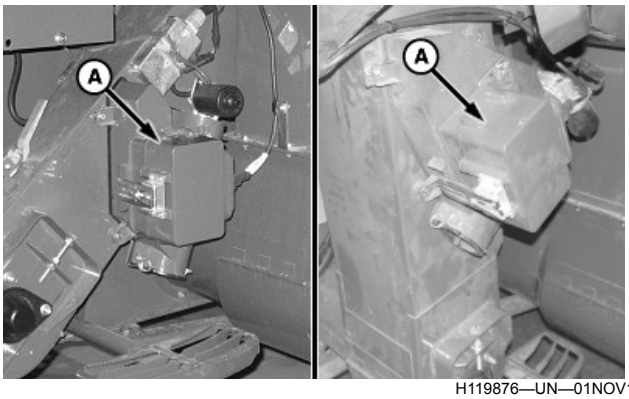
NOTE: Clean the camera lens once per week or as needed. Lens debris indicator in the software alerts the operator when the camera lens needs to be cleaned as system functionality may be reduced.

Cleaning frequency varies depending on a number of factors including operating conditions, weather, and crop conditions. Clean camera lens using a soft, moistened cloth.

Open latch and clean the ActiveVision™ clean grain elevator camera (A).

OUO6075,000448C-19-11JAN17

ActiveVision™ Tailings System Camera (If Equipped)



H119876—UN—01NOV16

Style A / Style B

A—ActiveVision™ Tailings System Camera

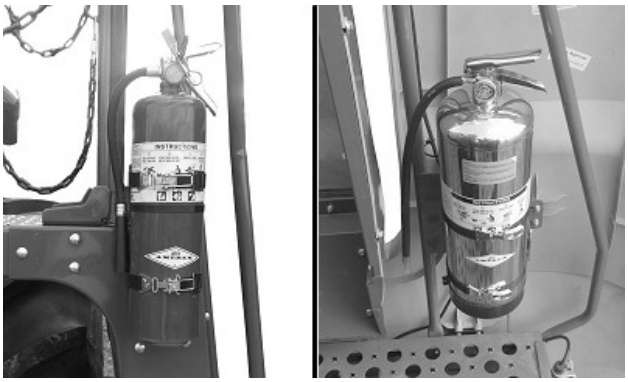
NOTE: Clean the camera lens once per week or as needed. Lens debris indicator in the software alerts the operator when the camera lens needs to be cleaned as system functionality may be reduced.

Cleaning frequency varies depending on a number of factors including operating conditions, weather, and crop conditions. Clean camera lens using a soft, moistened cloth.

Open latch and clean the ActiveVision™ tailings system camera (A).

OUO6075,000448B-19-11JAN17

Fire Extinguisher Bracket Straps (If Equipped)



H123657—UN—02MAR18

CAUTION: Inspect fire extinguisher straps and mounting hardware at least once a year. If fire extinguisher straps or mounting hardware shows any sign of damage or unusual wear, discoloration or abrasion, the entire strap and hardware must be replaced immediately. For your safety, replace fire extinguisher components with replacement parts approved for your machine. See your John Deere dealer.

Inspect fire extinguisher bracket straps.

OUO6075,0004983-19-29MAY18

ActiveVision is a trademark of Deere & Company

Maintenance—As Required (Engine Fluids and Filters)

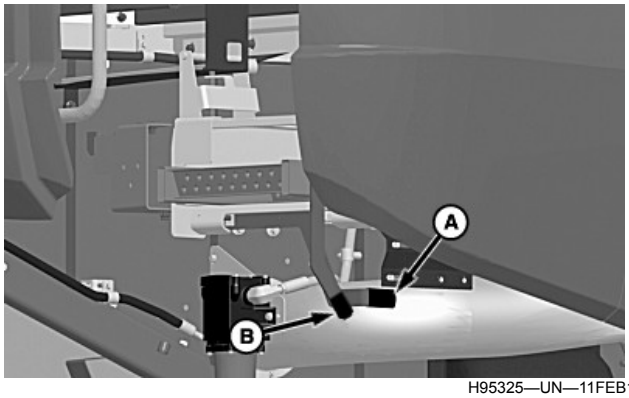
Required Emission-Related Information

Service Provider

A qualified repair shop or person of the owner's choosing may maintain, replace, or repair emission control devices and systems with original or equivalent replacement parts. However, warranty, recall, and all other services paid for by John Deere must be performed at an authorized John Deere service center.

DX,EMISSIONS,REQINFO-19-12JUN15

Rear Ladder and Landing



H95325—UN—11FEB10

A—Handle
B—Handle

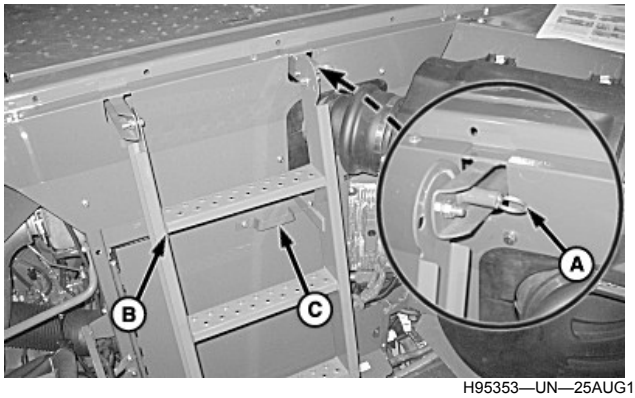
CAUTION: Shut OFF engine, set parking brake and remove key.

Push up on handle (A) and swing ladder out until door latches.

Use handle (B) to pull ladder rearward.

OUO6075,0000588-19-16FEB10

Engine Filter Access Cover



H95353—UN—25AUG10

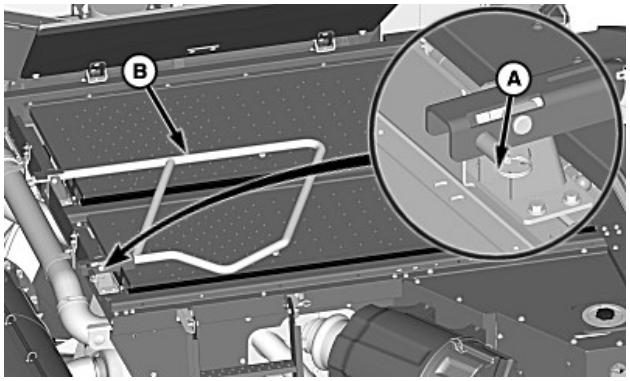
A—Lock-Out Pin
B—Ladder
C—Cover

Pull lock-out pin (A) and rotate ladder (B) up until ladder locks into place.

Pull filter access cover (C) open to release from magnet.

OUO6075,000069B-19-25AUG10

Engine Access Covers



H118332—UN—04MAY16

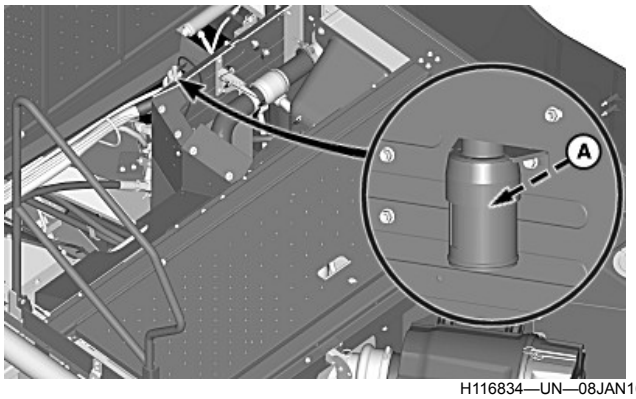
A—Lockout Pin
B—Handrail

Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place.

Open engine access covers.

OUO6075,00042D3-19-04MAY16

Changing Starting Fluid Can



H116834—UN—08JAN16

A—Starting Fluid Can

CAUTION: Starting fluid is highly flammable and can cause injury or death to you or others if accidentally ignited. DO NOT use near fire, sparks, or flames. Read the cautionary information on the container and protect the container against damage.

Open engine access cover. Remove safety cap and spray button from starting fluid can (A). Loosen thumb wheel enough to change cans and then tighten.

IMPORTANT: To avoid drawing dust into engine, always keep can in position.

Protect starting fluid can from extreme heat or damage.

Check for fluid and valve operation by installing and pressing spray nozzle. If no fluid sprays out, replace can.

CAUTION: To prevent possible injury from exploding container, do not carry extra or empty cans inside cab.

OUO6075,00041C6-19-08JAN16

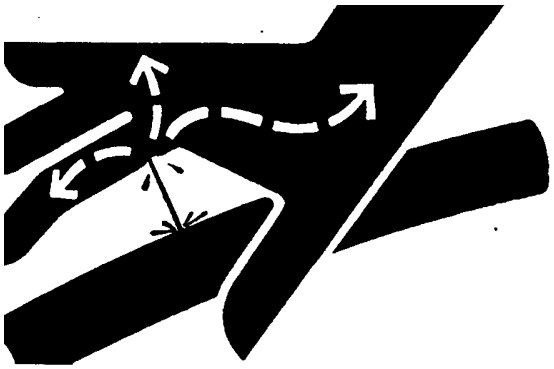
Do Not Modify Engine Power or Fuel/Air System

IMPORTANT: Increasing horsepower, or altering any aspect of fuel and air delivery on emissions certified engines beyond factory settings, will cause emission levels beyond what is allowed by engine emission regulations. Unauthorized adjustments are in violation of the emission regulations applicable to this engine and may result in substantial fines and penalties. Machine warranty will be voided if power level is changed from factory specifications.

Do not attempt to service injection pump or fuel injectors. Special training and special tools are required. See your John Deere dealer.

OUO6075,000058D-19-11FEB10

Fuel System



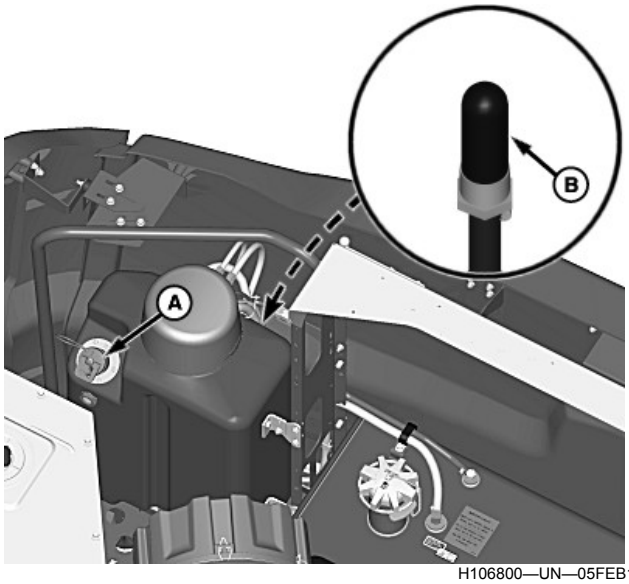
X9811—UN—23AUG88

CAUTION: Escaping diesel fuel under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pin holes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

OUO6075,000058E-19-11FEB10

Diesel Exhaust Fluid (DEF) Tank—Filling (Final Tier 4/Stage V)



H106800—UN—05FEB13

A—Cap
B—Diesel Exhaust Fluid (DEF) Tank Breather

CAUTION: Diesel Exhaust Fluid (DEF) contains urea. Do not get fluid in eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. In event fluid is ingested, contact a physician immediately. Reference Materials Safety Data Sheet (MSDS) for additional information.

IMPORTANT: Using incorrect or unapproved aftertreatment components can cause damage to the vehicle's aftertreatment system and reduce ability of the aftertreatment system to function correctly. Never interchange aftertreatment components between Interim Tier 4/Stage III B and Final Tier 4/Stage V equipped vehicles.

NOTE: If fluid is spilled or contacts any surface other than storage tank, immediately clean surface with clear water. Fluid is corrosive to painted surfaces and can distort some plastic and rubber components.

Cap (A) is not vented. Excess air is vented through Diesel Exhaust Fluid (DEF) tank breather (B).

Visually inspect the breather. Do not allow excessive amounts of chaff or debris to collect on breather. If the breather is covered with debris, it does not allow tank to breathe. Remove breather from hose and clean.

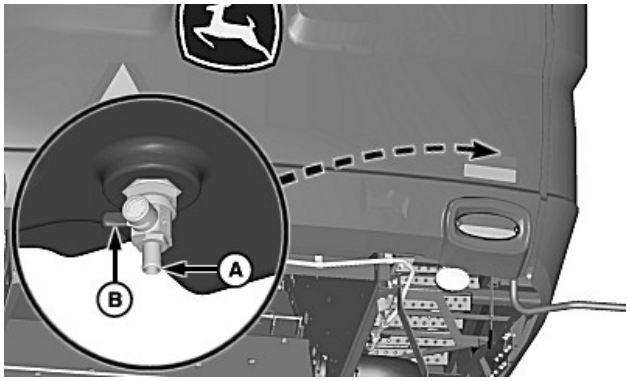
Fill tank every time machine is refueled. If this cannot be done, monitor Diesel Exhaust Fluid (DEF) level indicator on corner post display and refill as necessary. To avoid drastic changes in machine performance, always keep fluid level above the topmost red mark on the level indicator. See Combine Overview Application Help or Operator's Station for further information.

To fill tank:

1. Wash and rinse containers with distilled water to remove contaminants before adding fluid.
2. Wipe area around the cap before removing to reduce chance of contaminating fluid.
3. Using a funnel, carefully pour fluid into the tank, watching level through sight glass.
4. Install previously removed cap.
5. Carefully clean any spills, using distilled water.

OUO6075,0004802-19-13NOV17

Diesel Exhaust Fluid (DEF) Tank—Draining (Final Tier 4/Stage V)



H118791—UN—23JUN16

A—Fitting
B—Handle

CAUTION: Shut OFF engine, set park brake and remove key before performing maintenance work.

IMPORTANT: Long-term storage in vehicle (over 12 months) is not recommended. If long-term storage is necessary, periodic testing of fluid is recommended to ensure that urea concentration does not fall out of specification.

If an unapproved fluid, such as diesel fuel, or engine coolant is added, drain tank and rinse with distilled water, then refill tank. If system does not operate correctly after cleaning and refilling, contact your John Deere dealer to determine how to clean and purge system. If water has been added to tank, drain tank, flush with distilled water and refill with Diesel Exhaust Fluid (DEF). Check concentration of fluid after filling tank. See Fuels and Lubricants section for testing.

NOTE: If fluid is spilled or contacts any surface other than storage tank, immediately clean surface with clear water. Fluid is corrosive to painted surfaces and can distort some plastic and rubber components.

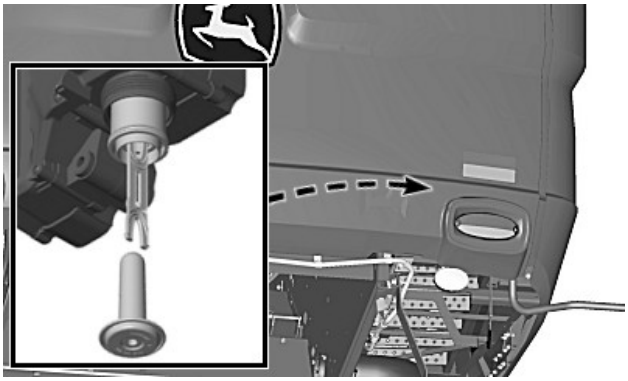
Attach hose to the fitting (A) at bottom of tank.

Use the handle (B) to open the drain valve.

Close the drain valve and remove the hose once fluid is drained.

OUO6075,0004803-19-13NOV17

Access Diesel Exhaust Fluid (DEF) Dosing Unit (Final Tier 4/Stage V)



H122784—UN—21NOV17

Diesel Exhaust Fluid (DEF) Dosing Unit Filter

CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. Reference the Materials Safety Data Sheet (MSDS) for additional information.

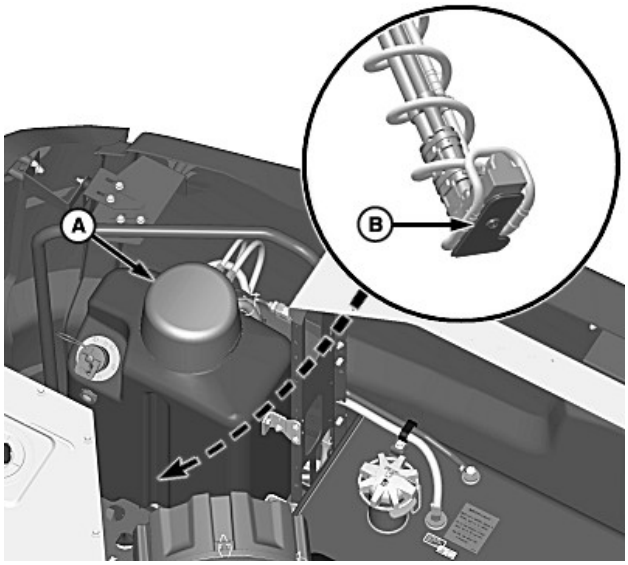
IMPORTANT: If DEF is spilled or contacts any surface other than the storage tank, immediately clean the surface with clear water. DEF is corrosive to painted and unpainted metallic surfaces and can distort some plastic and rubber components.

Spilled DEF, if left to dry or if only wiped away with a cloth, leaves a white residue. Improperly cleaned DEF spill can interfere with diagnosis of Selective Catalytic Reduction (SCR) system leakage problems.

1. Shut OFF engine, set park brake and remove key.
2. Remove and replace Diesel Exhaust Fluid (DEF) dosing unit filter. See Changing Diesel Exhaust Fluid (DEF) Dosing Unit Filter for further information.

OUO6075,0004844-19-22NOV17

Access Diesel Exhaust Fluid (DEF) Tank Header (Final Tier 4/Stage V)



H122785—UN—21NOV17

A—Cover
B—Filter

CAUTION: Explosive release of fluids from pressurized cooling system can cause serious burns. Wait until engine coolant is cool enough to touch with bare hands before disconnecting coolant hoses. Open surge tank cap slowly to relieve pressure.

1. Shut OFF engine, set park brake and remove key.
2. Remove cover (A).
3. Remove and replace filter (B). See Replace Diesel Exhaust Fluid (DEF) Tank Header Suction Screen for further information.

OUO6075,0004845-19-21NOV17

Cleaning Diesel Exhaust Fluid (DEF) Tank

CAUTION: Avoid contact with eyes. In case of contact, immediately flush eyes with large amounts of water for a minimum of 15 minutes. Reference the Materials Safety Data Sheet (MSDS) for additional information.

IMPORTANT: If DEF is spilled or contacts any surface other than the storage tank, immediately clean the surface with clear water. DEF is corrosive to painted and unpainted metallic surfaces and can distort some plastic and rubber components.

Spilled DEF, if left to dry or if only wiped away with a cloth, leaves a white residue. Improperly cleaned DEF spill can interfere with diagnosis of Selective Catalytic Reduction (SCR) system leakage problems.

If foreign material or fluid has been added to the DEF tank, drain the DEF tank, flush, and fill with new DEF.

If DEF quality is in question, pull a sample out of the DEF tank and place into a clear container. DEF should be crystal clear with a light ammonia smell. If DEF appears cloudy, has a colored tint, or has a profound ammonia smell, it is likely not within specification. DEF in this condition should not be used.

1. Remove drain plug (if equipped), and drain or siphon bad DEF from DEF tank.

NOTE: Cleaning can take place with DEF tank installed or removed.

2. Clean DEF tank with new DEF.

   DEF must pass visual, smell, and concentration checks before the engine can be ran. See Diesel Exhaust Fluid (DEF) – For Use In Selective Catalytic Reduction (SCR) Equipped Engines in the Fuels, Lubricants, and Coolants Section for more information.

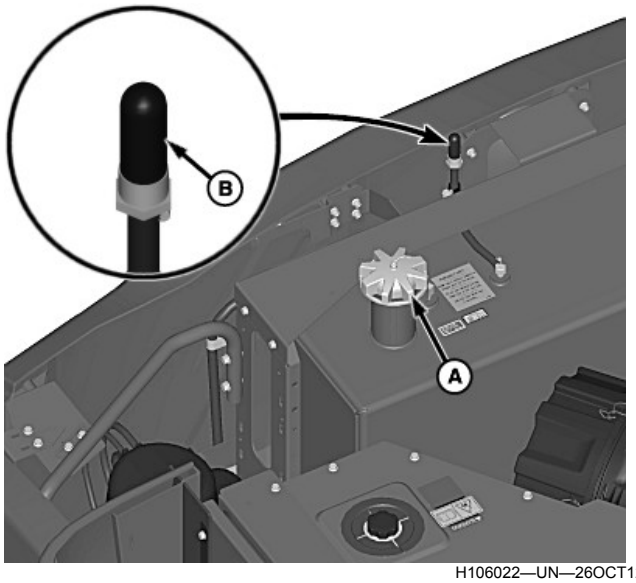
3. Drain or siphon DEF tank.

NOTE: Repeat steps 2—3 until DEF tank has been cleaned.

4. Change DEF dosing unit filter and DEF tank header suction screen.
5. If removed, install DEF tank drain plug.
6. If removed, install DEF tank.
7. Fill DEF tank with new DEF.
8. Check DEF concentration with DEF refractometer, such as JDG11594 or JDG11684. The correct DEF concentration is 31.8% — 33.2%. See your authorized dealer for more information.
9. If DEF is not within specification, does not appear clear, or does not have a slight ammonia smell, contact your authorized dealer.

DX,DEF,CLEANTANK-19-15AUG17

Fuel Tank—Filling



H106022—UN—26OCT12

A—Fuel Tank Cap
B—Fuel Tank Breather

CAUTION: Handle fuel carefully. Do not refuel machine while smoking. Shut OFF engine, set park brake and remove key before filling tank.

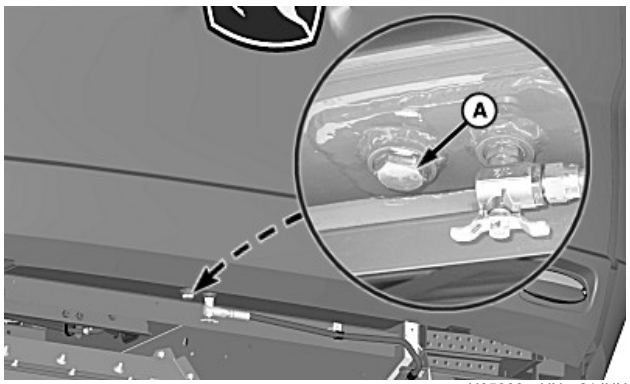
Do not overfill fuel tank. Bodily injury can result from fuel splash back. Leakage can result from expansion of fuel. If tank is too full, then left in direct sunlight or if temperature gets too hot, tank will overflow.

Fuel tank cap (A) is not vented. Excess air is vented through fuel tank breather (B).

Visually inspect fuel tank breather. Do not allow excessive amounts of chaff or debris to collect on breather. If breather is covered with debris, it does not allow fuel tank to breathe. Remove fuel tank breather from hose and clean.

OUO6075,00012DC-19-01JUL13

Fuel Tank—Draining



H95330—UN—21JUN11

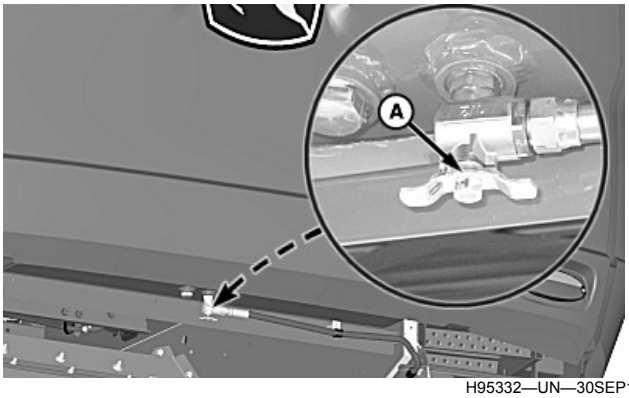
A—Plug

CAUTION: Shut OFF engine, set parking brake and remove key before performing maintenance work.

Remove plug (A) at bottom of fuel tank to drain fuel.

OUO6075,0000591-19-16FEB10

Fuel Tank—Shut-Off Valve



H95332—UN—30SEP10

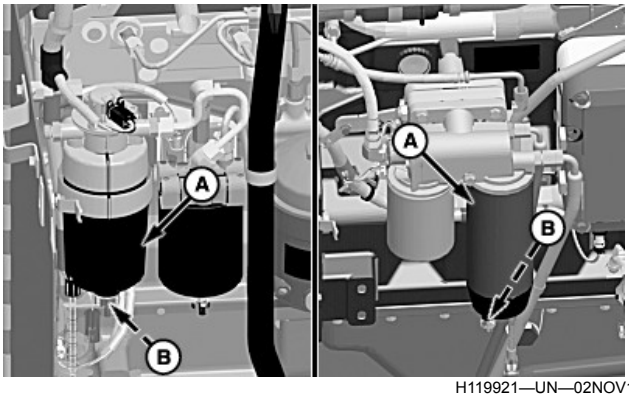
A—Valve

CAUTION: Shut OFF engine, set parking brake and remove key before performing maintenance work.

Close valve (A) at bottom of fuel tank when servicing fuel filters.

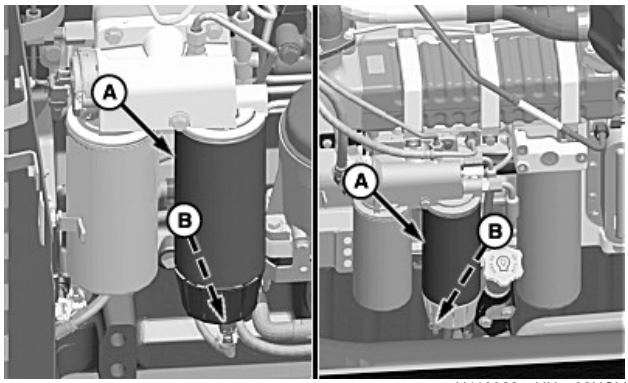
OUO6075,0000913-19-30AUG10

Water Separator Primary Fuel Filter—Draining



H119921—UN—02NOV16

Tier 2/Stage II (Style A / Style B)



H119922—UN—02NOV16

Final Tier 4/Stage V (Style A / Style B)

A—Primary Fuel Filter
B—Drain

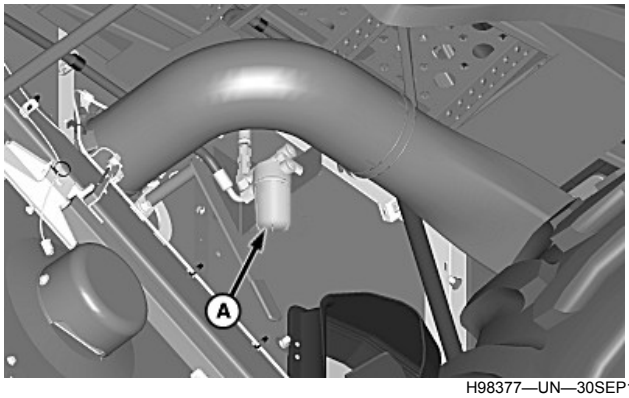
CAUTION: Shut OFF engine, set park brake and remove key before performing maintenance work.

When primary fuel filter (A) senses water in the fuel system, a diagnostic trouble code is generated.

If a diagnostic trouble code appears, drain primary filter using drain (B) and reset code.

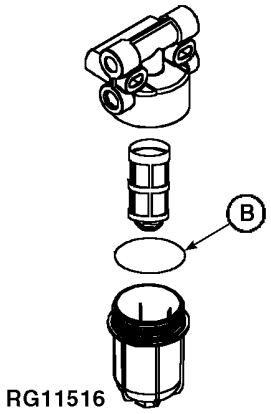
OUO6075,000480C-19-13NOV17

Fuel Precleaner Filter—Cleaning



H98377—UN—30SEP10

Fuel Precleaner Filter



RG11516—UN—10NOV00

Fuel Precleaner Parts

A—Precleaner Bowl
B—O-ring

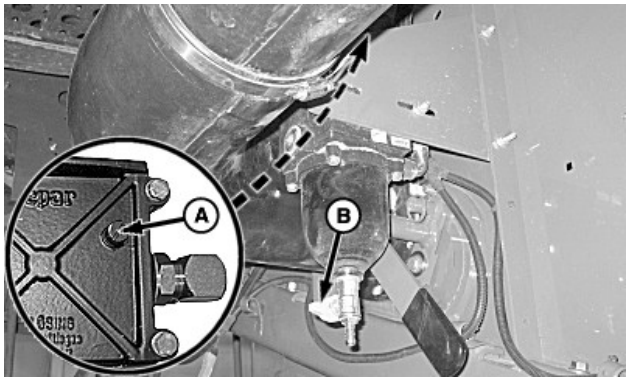
NOTE: Do not clean fuel precleaner and change primary and secondary fuel filters at the same time. Doing so makes it difficult to restart machine. Perform this procedure, then run engine before changing primary and secondary fuel filters.

Clean fuel precleaner filter if buildup is visible on the filter screen or if a diagnostic trouble code appears. Reset code after cleaning filter.

1. Start engine and run 3—5 minutes at low idle if machine had not been previously running.
2. Shut OFF engine and close valve at bottom of the fuel tank to prevent drain back within the supply line.
3. Thoroughly clean fuel precleaner assembly and surrounding area.
4. Remove precleaner bowl (A).
5. Clean filter screen and precleaner bowl. Inspect O-ring (B).
6. Install screen and tighten precleaner bowl.
7. Open valve at bottom of the fuel tank to fill the precleaner.
8. Start engine and run 3—5 minutes at low idle.

OUO6075,000456F-19-20DEC16

Heavy-Duty Fuel Precleaner Filter (Optional)—Flushing



H100500—UN—29JUN11

A—Bleed Screw
B—Drain Valve

NOTE: Do not clean fuel precleaner and change primary and secondary fuel filters at the same time. Doing so makes it difficult to restart machine. Perform this procedure, then run engine before changing primary and secondary fuel filters.

Heavy-duty fuel precleaner should be back flushed whenever bowl is half full of water or when diagnostic code appears. Reset code after cleaning. If code still displays, see Heavy-Duty Fuel Precleaner Filter (Optional)—Replacing and Cleaning.

Filter element can be back flushed up to five times before being replaced.

1. Shut OFF engine and close valve at bottom of the fuel tank.
2. Open bleed screw (A) on top of the water separator. Allow water and dirt to be released from filter element and settle in bottom of bowl.
3. Push in on the drain valve (B) and turn counterclockwise to drain water and dirt from bowl.

NOTE: As fuel, water, and dirt are drained from bowl, more water and dirt are flushed from filter element and collect in bottom of bowl.

4. Close drain valve and allow water and dirt to settle again.
5. Repeat steps 3 and 4 until all dirt and water is removed.
6. Close bleed screw and open valve at bottom of the fuel tank.
7. Turn key switch ON for 60 seconds to allow fuel pump to prime the fuel system and check for leaks.
8. Start engine and run 3—5 minutes at low idle. If

engine does not start or dies, see Primary and Secondary Fuel Filter Element—Replacing.

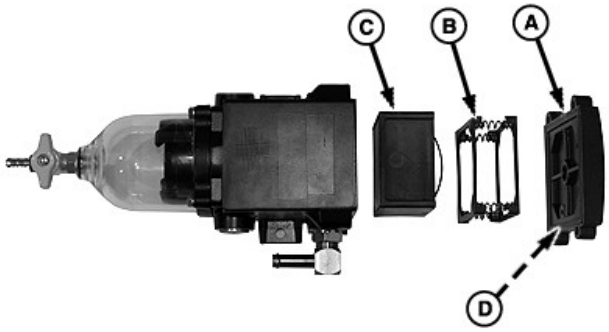
OUO6075,000469F-19-21MAR17

Heavy-Duty Fuel Precleaner Filter (Optional)—Replacing and Cleaning

Replacing Filter



RXA0084320—UN—26SEP05



H91103—UN—09APR08

A—Lid
B—Spring Cassette
C—Filter Element
D—Gasket

NOTE: After filter element has been back flushed five times, clean filter. Replace filter when light is no longer visible while holding filter up to light.

1. Shut OFF engine and close valve at bottom of the fuel tank.
2. Loosen lid screws evenly in sequence shown.

NOTE: Lid and spring cassette is used again, but a replacement filter element must be installed.

3. Remove lid (A), spring cassette (B), and filter element (C).
4. Install replacement filter element and previously removed spring cassette (B).
5. Inspect lid gasket (D) and replace if necessary.
6. Install lid and tighten in sequence shown.
7. Open valve at bottom of the fuel tank.
8. Turn key switch ON for 60 seconds to allow fuel pump to prime the fuel system and check for leaks.
9. Start engine and run 3—5 minutes at low idle. If engine does not start or dies, see Primary and Secondary Fuel Filter Element—Replacing.

Cleaning Filter

1. Shut OFF engine and close valve at bottom of the fuel tank.

NOTE: Use a catch pan when draining fuel.

2. Open drain valve and drain fuel from bowl.
3. Loosen lid screws evenly in sequence shown.
4. Remove lid (A) and spring cassette (B).
5. Lift out filter element (C) by handle.

NOTE: Inspect filter for damage. If damaged, install replacement filter.

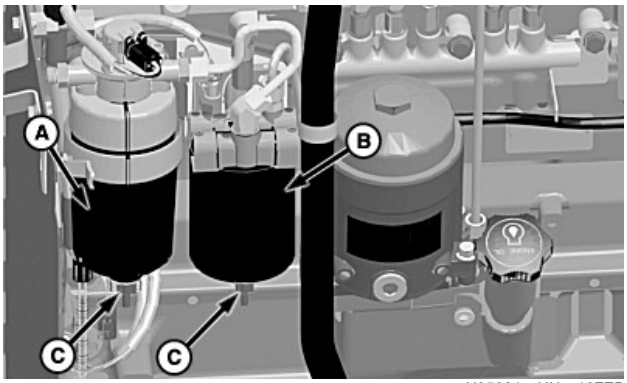
6. Wash filter in clean diesel fuel or mineral spirits.
7. Install filter element and spring cassette.
8. Inspect lid gasket (D) and replace if necessary.
9. Install lid and cap screws and leave cap screws finger tight.
10. Tighten cap screws in sequence as shown.
11. Open valve at bottom of the fuel tank.
12. Turn key switch ON for 60 seconds to allow fuel pump to prime the fuel system and check for leaks.
13. Start engine and run 3—5 minutes at low idle.

OUO6075,000456E-19-20DEC16

Primary and Secondary Fuel Filter Element —Replacing

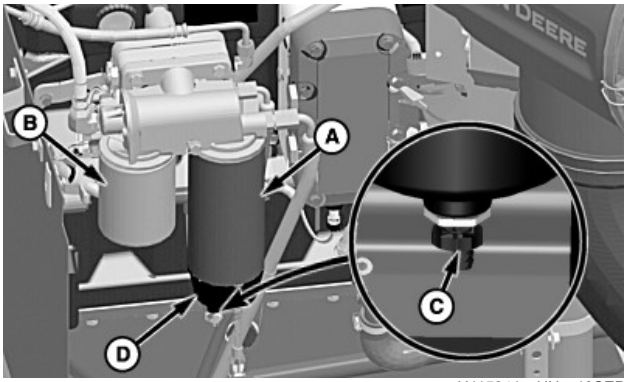


TS1343—UN—18MAR92



H95381—UN—16FEB10

Style A



H115841—UN—10SEP15

Style B

A—Primary Fuel Filter
B—Secondary Fuel Filter
C—Drain Valves
D—Separator Bowl

CAUTION: High-pressure fluid remaining in fuel lines can cause serious injury. Only technicians familiar with this type of system should perform repairs. Before disconnecting fuel lines, sensors, or any other components between the high-pressure fuel pump and nozzles on engines with High Pressure Common Rail (HPCR) fuel system, wait a minimum of 15 minutes after engine is stopped.

NOTE: Do not clean fuel precleaner and change primary and secondary fuel filter at the same time. Doing so makes it difficult to restart machine. Perform fuel precleaner cleaning procedure then run engine before changing primary and secondary fuel filter.

Change primary and secondary fuel filters if performance decline is noticed or a diagnostic trouble code appears. Reset code after replacing filters.

1. Start engine and run 3—5 minutes at low idle if machine had not been previously operating.
2. Shut OFF engine and close valve at bottom of the fuel tank.
3. Thoroughly clean the exterior of the filter elements and filter mounting areas.

CAUTION: Fuel in filters may be under pressure. Do not remove filters without completing the following step.

NOTE: Use a catch pan when draining fuel and when removing fuel filters.

4. **Style A:** Drain fuel contaminates and relieve pressure from the primary fuel filter (A) and secondary fuel filter (B) by opening drain valves (C). Close drain valves and remove fuel filters.

   Style B: Drain fuel contaminates and relieve pressure from the primary fuel filter (A) by opening drain valve (C). Close drain valve and remove and retain separator bowl (D).

NOTE: Additional fuel drains from filter housings.

5. Remove primary fuel filter and secondary fuel filter.

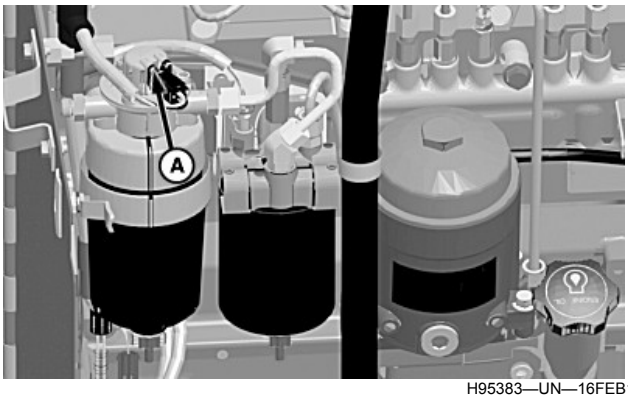
IMPORTANT: Do NOT prefill either fuel filter with fuel.

NOTE: Lube filter seals with diesel fuel before installing.

6. **Style B Only:** Install previously removed separator bowl on the replacement primary fuel filter.
7. Install primary fuel filter (A) assembly on engine. Tighten filter assembly 3/4 of a turn after seal contacts filter housing.
8. Install replacement secondary fuel filter (B). Tighten filter 3/4 of a turn after seal contacts filter housing.
9. Verify that drain valves (C) are closed.
10. Open valve at bottom of the fuel tank.
11. Turn key switch ON for 60 seconds to prime the fuel system.
12. Start engine and run 3—5 minutes at low idle.

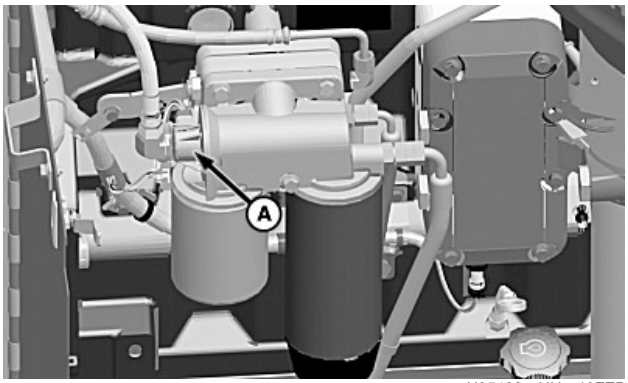
OUO6075,00043C7-19-20DEC16

Fuel System—Bleeding



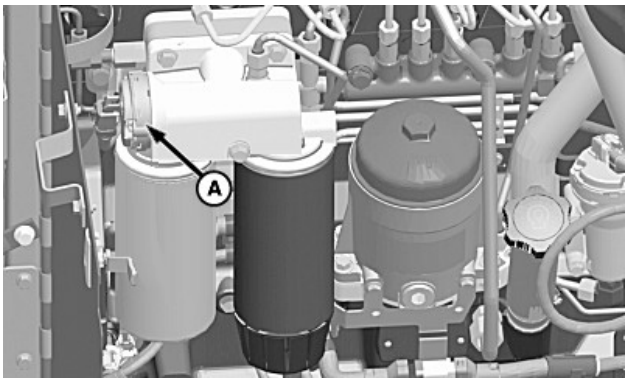
H95383—UN—16FEB10

Tier 2/Stage II (Style A)



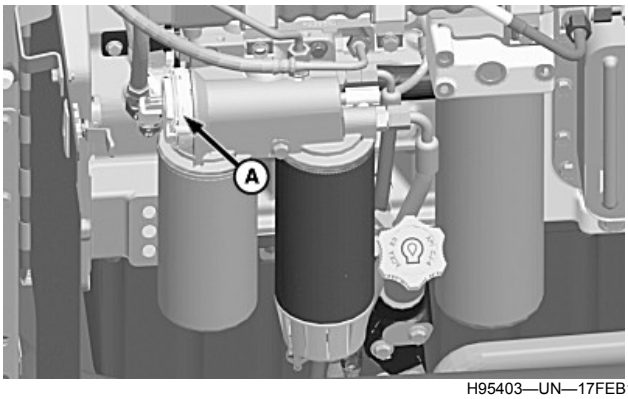
H95428—UN—19FEB10

Tier 2/Stage II (Style B)



H95337—UN—12FEB10

Final Tier 4/Stage V (Style A)



H95403—UN—17FEB10

Final Tier 4/Stage V (Style B)

A—Fuel Pump

CAUTION: Shut OFF engine, set park brake and remove key before performing maintenance work.

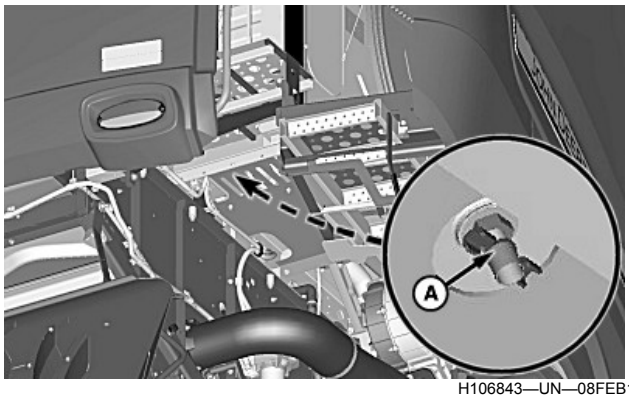
Air can enter fuel system when changing fuel filters or when machine has run out of fuel. Air in the fuel system could prevent engine from starting. If engine does not start, turn key switch ON for 60 seconds to allow fuel pump (A) to prime the fuel system.

OUO6075,000480D-19-13NOV17

Cooling System—Draining

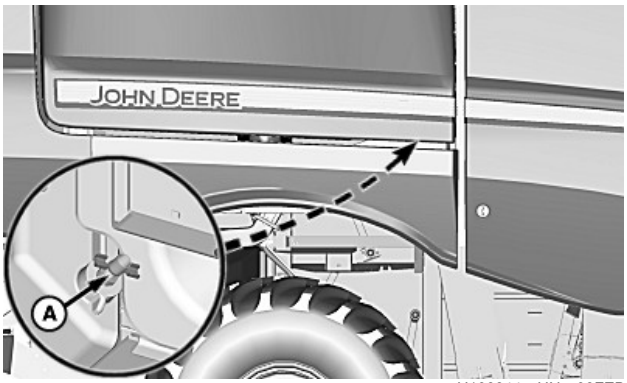


TS281—UN—15APR13



H106843—UN—08FEB13

Tier 2/Stage II (Style A)



H106844—UN—08FEB13

Tier 2/Stage II (Style B)
Final Tier 4/Stage V

A—Drain Valve

CAUTION: Shut OFF engine, set park brake and remove key. Avoid being scalded when opening surge tank cap. Never open cap when engine is hot. Open cap slowly to relieve pressure.

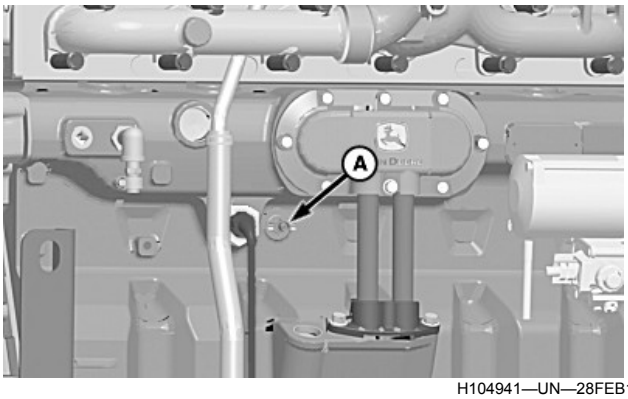
NOTE: Radiator drain is on the front side of radiator.

When Cool-Gard™ II or Cool-Gard™ II PG is used, the drain interval is 6 years or 6000 hours of operation.

If a coolant other than Cool-Gard™ II or Cool-Gard™ II PG is used, reduce the drain interval to 2 years or 2000 hours of operation.

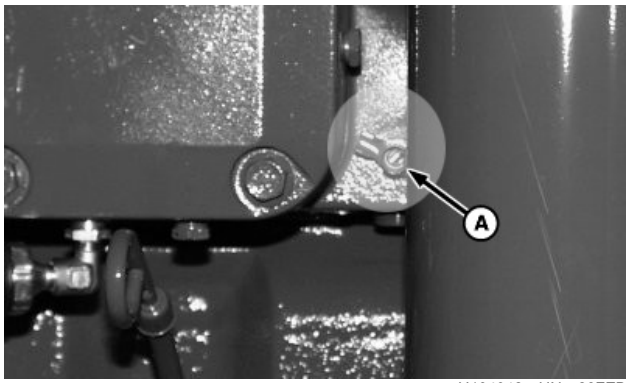
Coolant must be drained and replaced. See Fuels and Lubricants section for engine coolant recommendations.

Open drain valve (A) on radiator.



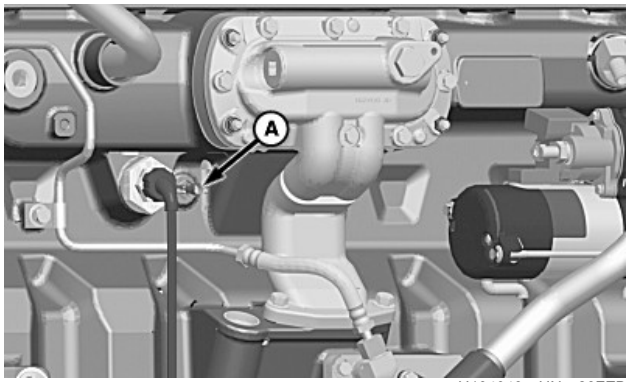
H104941—UN—28FEB12

Front Side of Engine (Tier 2/Stage II) (Style A)



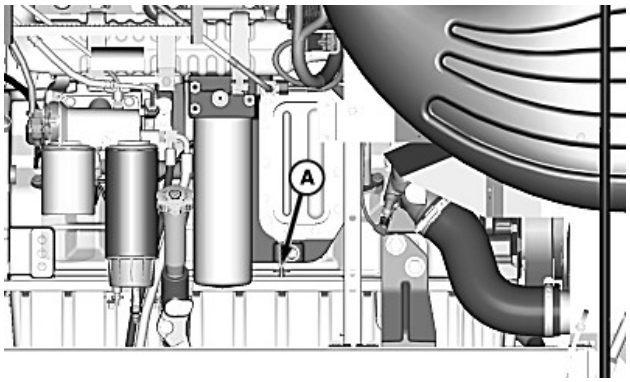
H104942—UN—28FEB12

Above Crankshaft (Tier 2/Stage II) (Style B)



H104943—UN—28FEB12

Front Side of Engine (Final Tier 4/Stage V) (Style A)



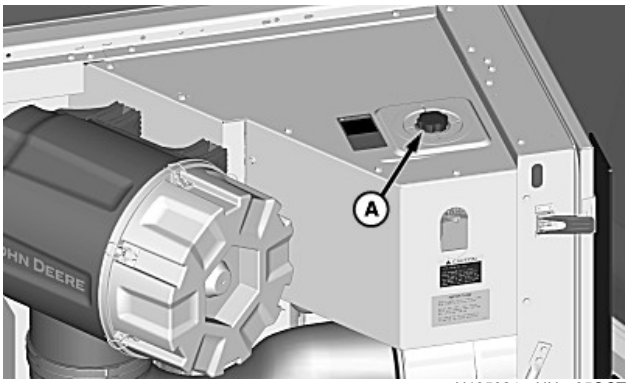
H104944—UN—28FEB12

Rear Side of Engine (Final Tier 4/Stage V) (Style B)

A—Drain Valve

Open drain valve (A) on the engine block.

Cool-Gard is a trademark of Deere & Company



H105924—UN—05OCT12

A—Surge Tank Cap

Open surge tank cap (A) to allow coolant to drain faster.

Close radiator drains and fill system with clean water.

Install surge tank cap and run engine until it reaches operating temperature with heater ON.

Shut OFF engine, carefully remove surge tank cap and drain water out before rust or sediment settles.

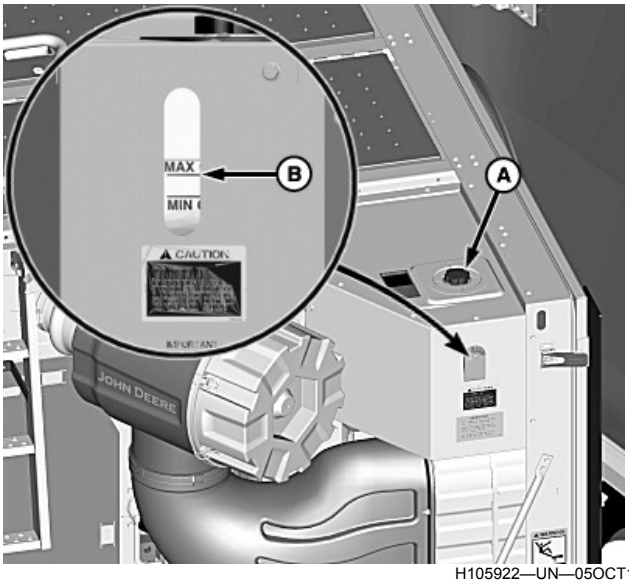
Close radiator drains and refill system with a solution of clean water and John Deere Cooling System Cleaner PT500 or equivalent. Follow instructions with cleaner.

After using cleaner, flush system with clean water and drain.

Close radiator drains and fill system. See Cooling System—Filling in this section for filling procedure. See Fuels and Lubricants section for engine coolant recommendations.

OUO6075,000480E-19-13NOV17

Cooling System—Filling



H105922—UN—05OCT12

A—Surge Tank Cap
B—Max Cold Line

CAUTION: Shut OFF engine, set park brake and remove key. Avoid being scalded when opening surge tank cap. Never open cap when engine is hot and never fill cooling system when engine is overheated. Open cap slowly to relieve pressure. Pour coolant in slowly. Check coolant level when engine is cold.

IMPORTANT: A special cap is used on the surge tank and radiator. If cap is damaged or missing, it must be replaced by an equivalent cap.

Never pour cold water into a hot engine as it might crack cylinder block or head. Do not operate engine without coolant.

Remove surge tank cap (A) and fill until fluid is at "Max Cold" line (B).

Install cap on surge tank, turn ON heater, and run engine until it reaches operating temperature.

Carefully remove cap from surge tank and refill as necessary. Install cap on surge tank.

When engine is cool, coolant level should be at "Max Cold" line.

NOTE: Coolant level must be between "Max Cold" and "Min Cold" lines. Add coolant as needed if coolant is below "Min Cold" line.

OUO6075,00041C9-19-27JAN16

Cooling System—Winterize

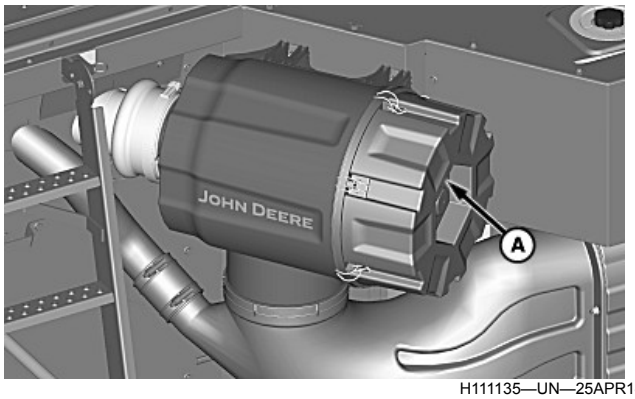
IMPORTANT: Do not drain cooling system to protect against freezing. Heater does not drain completely, so damage would result.

Before cold weather, be sure that cooling system has enough antifreeze. Use a reliable brand of permanent-type ethylene glycol antifreeze which contains a rust inhibitor and water pump lubricant, but does not contain a leak-stopping additive. See Fuels and Lubricants in this manual for correct recommendations.

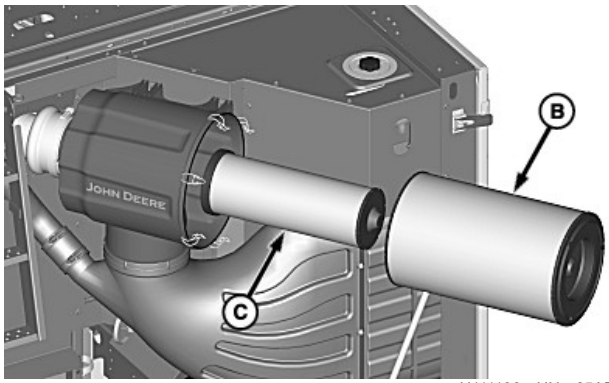
After adding antifreeze, turn heater ON and run engine until it reaches operating temperature. This mixes the solution and circulates it through the system.

OUO6075,00043AF-19-11OCT16

Air Cleaner Filters—Removing



H111135—UN—25APR14



H111136—UN—25APR14

A—Dust Cover
B—Primary Air Filter
C—Safety Filter

IMPORTANT: When servicing filters, shut OFF engine, set park brake and remove key so dirt cannot be pulled into engine.

Service filters only when engine air filter icon is displayed on armrest display.

Unsnap dust cover (A) and remove primary air filter (B).

Unscrew safety filter (C) in a counterclockwise direction to remove. Safety filter stops dirt that would pass through a damaged primary filter.

IMPORTANT: Never wash, brush, or knock elements. If blowing out the primary element, use dry compressed air (500 kPa; 72.5 psi). Clean the element from the inside out making sure that the tip of the air gun does not come in contact with the filter paper.

Never clean the safety element. Replace if dirty.

Never run engine without both filters in place.

Service filters as needed.

Install safety filter and turn in a clockwise direction until hand tight.

Install primary air filter and dust cover.

Check all connections in the air intake system. Be certain they are tight.

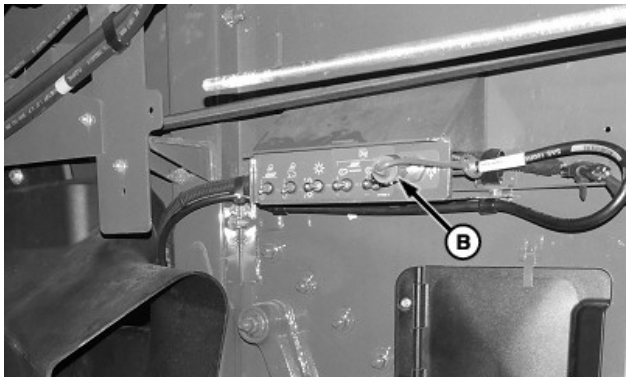
IMPORTANT: Do not use any exhaust flow cleaning unit to blow chaff off combine. Using such a unit can cause air filter failure, followed by engine failure.

OUO6075,00017D4-19-25APR14

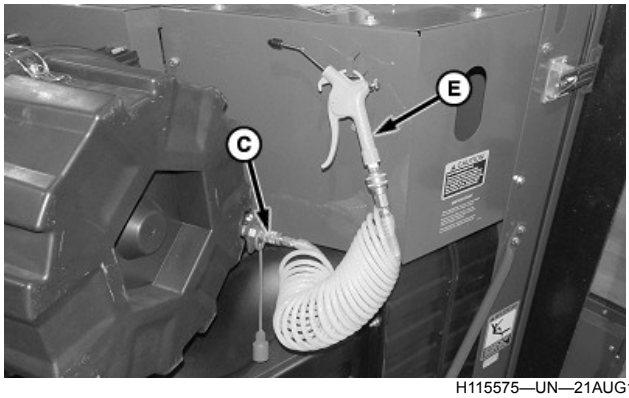
Air Compressor System (If Equipped)



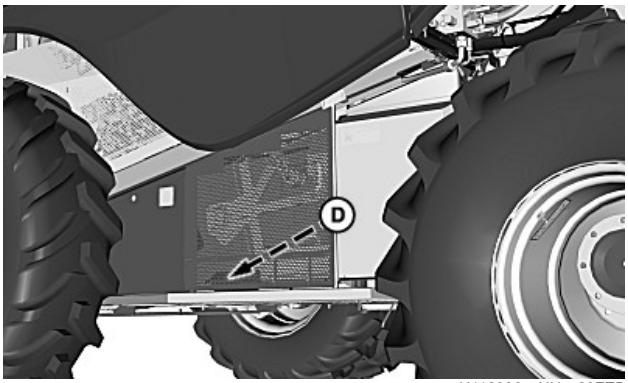
H112987—UN—20FEB15



H115838—UN—09SEP15



H115575—UN—21AUG15



H112990—UN—20FEB15

A—Reservoir
B—Air Compressor Hose Coupler
C—Air Compressor Hose Coupler
D—Air Compressor Hose/Wand
E—Air Compressor Hose/Wand

IMPORTANT: Never clean engine air filters or debris management air filters while machine engine is running.

NOTE: For optimal air compressor performance, engine must be running to provide continuous air supply.

Not recommended to inflate tires on machine or operate air tools.

Not recommended to use both coupler connections simultaneously.

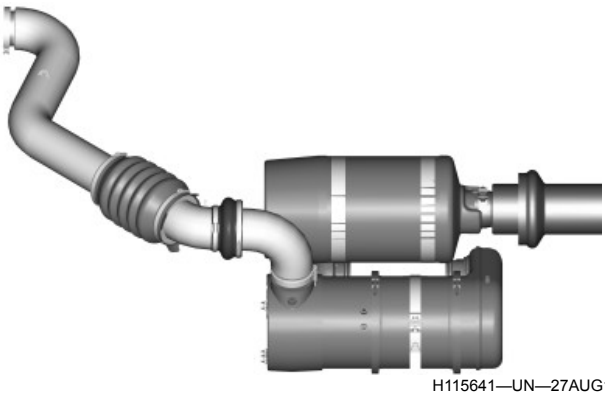
Air compressor is on engine deck and reservoir (A) is on the right-hand side of machine.

Air compressor hose coupler (B) is on left-hand side of machine and air compressor hose coupler (C) is on engine deck.

Air compressor hose/wand (D) is on left-hand side of machine and air compressor hose/wand (E) is on engine deck.

OUO6075,000412E-19-21MAR16

Diesel Particulate Filter Maintenance and Service (Final Tier 4/Stage V)



H115641—UN—27AUG15

The Exhaust Filter includes the Diesel Oxidation Catalyst and Diesel Particulate Filter (DPF). The DPF is designed to retain residual ash, which is a noncombustible result of additives used in crankcase lubrication oils and the fuel. The DPF provides many hours of maintenance free operation. At some point the DPF will require professional service to remove the accumulated ash. The exact number of hours of operation before service is required will vary depending upon the engine's power category, duty cycle and operating conditions, engine oil ash content, and fuel quality. Adhering to John Deere's recommended oil and fuel specifications will maximize the hours of operation before professional DPF service is required.

As the engine owner, you are responsible for performing the required maintenance described in your Operator's Manual. During normal equipment operation the DPF maintenance requirements will depend on the rate at which ash accumulates in it. Generally, DPFs on engines above 175 hp / 130 kW will require servicing at about 4,500 hours. As ash levels rise in the DPF the capacity for soot storage is reduced and the back pressure of the exhaust system will rise more frequently. A diagnostic trouble code will appear indicating when the DPF needs servicing.

The removal of DPF ash must be done by removing the DPF from the machine and placing it into specialized equipment. Do not remove ash by using water or other chemicals. Removing ash by these methods may damage the material securing the DPF in its canister, resulting in the loosening of the DPF element in the canister and subjecting it to damage from vibration.

Failure to follow the approved ash removal methods may violate U.S. federal, state and local hazardous waste laws, along with damage to the DPF resulting in potential denial of the Diesel Exhaust Filter emissions warranty. It is strongly recommended you take the DPF to an authorized John Deere service location or other qualified service provider for servicing.

When AUTO or PARKED cleaning is enabled, the exhaust temperature may be high under no load or light load conditions at certain times during the exhaust filter cleaning cycle.

Disable exhaust filter cleaning system in conditions where it may be unsafe for elevated exhaust temperatures.

Disable the automatic exhaust filter cleaning system only when necessary.

OUO6075,0004808-19-13NOV17

Exhaust Filter / Diesel Particulate Filter Ash Handling and Disposal (Final Tier 4/Stage V)

CAUTION: Under federal, state, and/or local laws or regulations, Diesel Particulate Filter ash may be classified as a hazardous waste. Hazardous wastes must be disposed of in accordance with all applicable federal, state and local laws or regulations governing hazardous waste disposal. Only a qualified service provider should remove ash from the DPF. Personal protective equipment and clothing, maintained in a sanitary and reliable condition, should be used when handling and cleaning a DPF. See your John Deere dealer or qualified service provider for assistance.

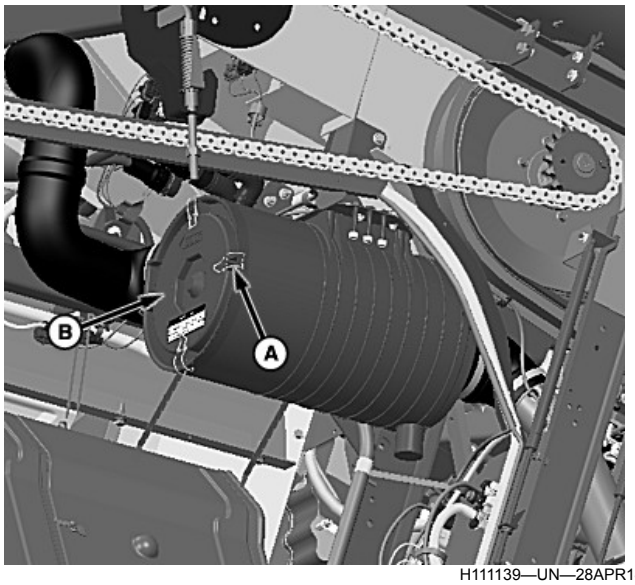
OUO6075,0004809-19-13NOV17

Exhaust Filter Disposal (Final Tier 4/Stage V)

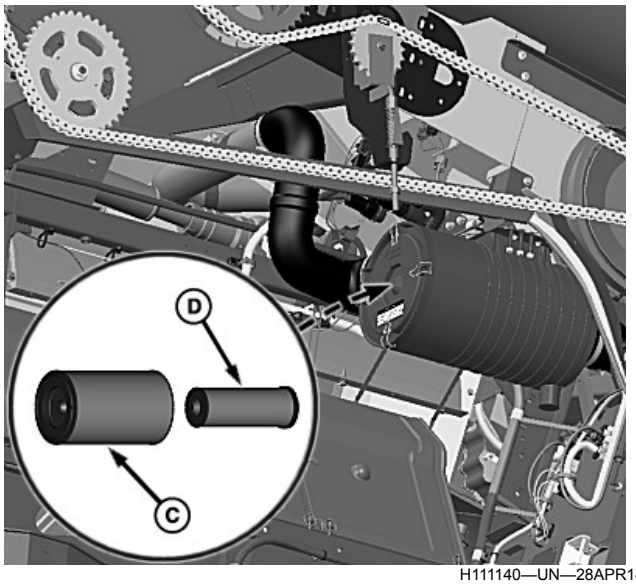
CAUTION: Proper management of an Exhaust Filter that has reached the end of its useful life is required, since the ash or catalyst material in the device may be classified as hazardous waste under federal, state, and/or local laws or regulations. Used Exhaust Filters, which include the Diesel Particulate Filter, may be exchanged at any John Deere dealer or qualified service provider.

OUO6075,000480A-19-13NOV17

Engine Debris Management Air Filter—Removing (Final Tier 4/Stage V)



H111139—UN—28APR14



H111140—UN—28APR14

A—Latches
B—Dust Cover
C—Primary Air Filter
D—Safety Filter

IMPORTANT: When servicing filters, shut OFF engine, set park brake and remove key so dirt cannot be pulled into engine.

Service filter only when engine debris management air filter icon is displayed on armrest display.

Disengage latches (A) and remove dust cover (B).

Remove primary air filter (C).

Remove safety filter (D) in a counterclockwise direction. Safety filter stops dirt that would pass through a damaged primary filter.

IMPORTANT: Never wash, brush, or knock elements. If blowing out the primary element, use dry compressed air (500 kPa; 72.5 psi). Clean the element from the inside out making sure that the tip of the air gun does not come in contact with the filter paper.

Never clean the safety element. Replace if dirty.

Never run engine without both filters in place.

Service filters as needed.

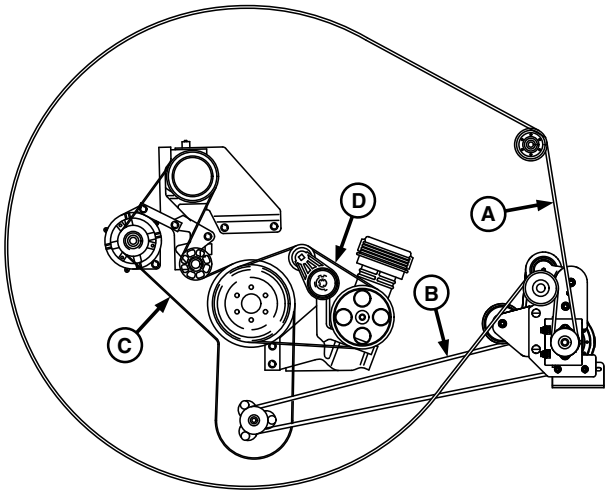
Install safety filter and turn in a clockwise direction until hand tight.

Install primary air filter.

Install cover and engage latches.

OUO6075,000480B-19-13NOV17

Engine Belt—Routing (Tier 2/Stage II)

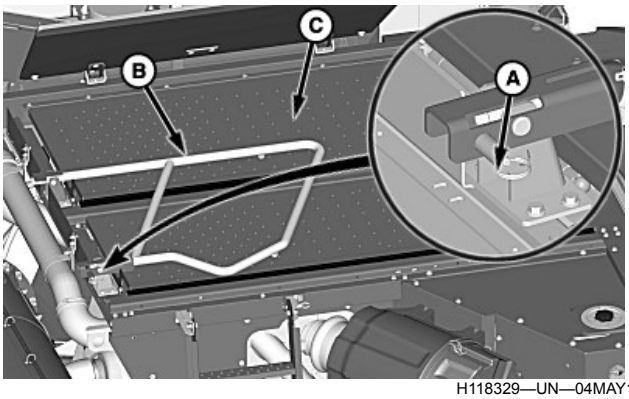


H124552—UN—21JUN18

A—Rotary Screen Drive Belt, Screen Side
B—Rotary Screen Drive Belt, Engine Side
C—Cooling Fan, Air Conditioner, Compressor Belt
D—Air Compressor Belt (If Equipped)

OUO6075,00049EF-19-20JUN18

Engine Accessory/Fan Drive/Air Compressor (If Equipped) Belt—Replacing (Tier 2/Stage II)

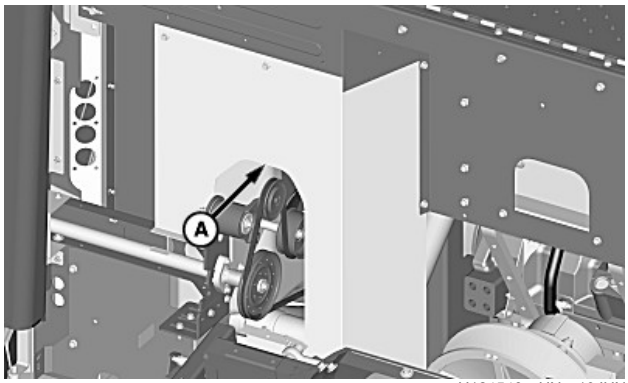


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

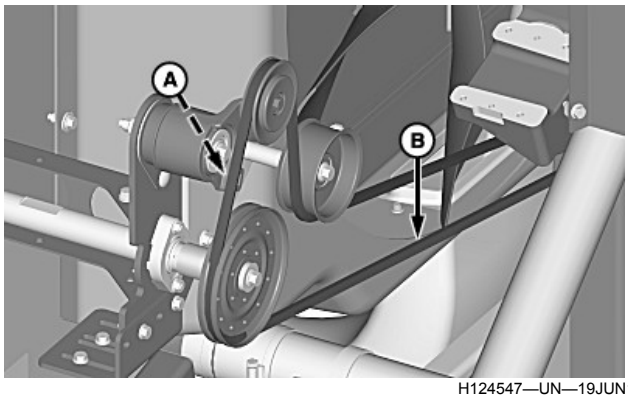


H124546—UN—19JUN18

Front Side Of Engine

A—Shield

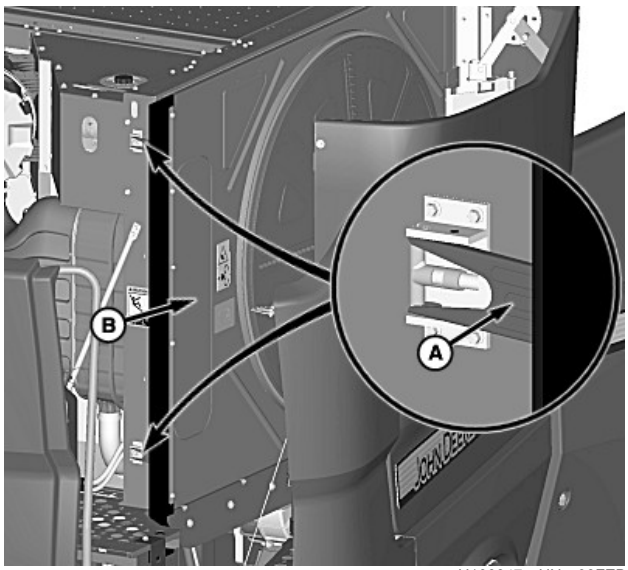
2. Remove shield (A).



H124547—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

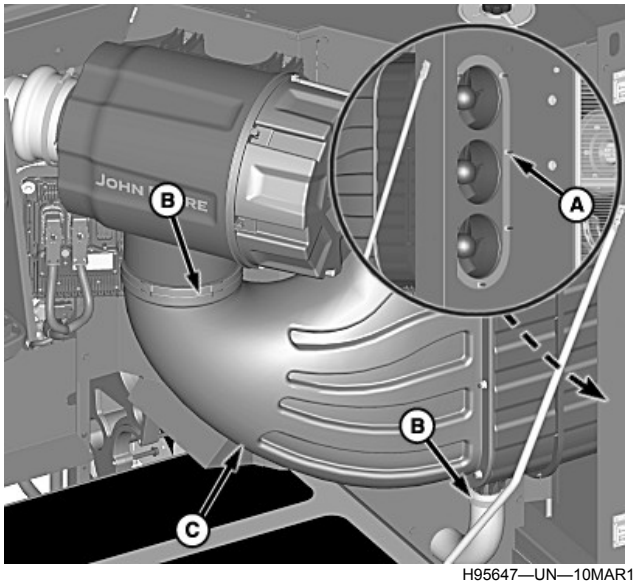
3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).



H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

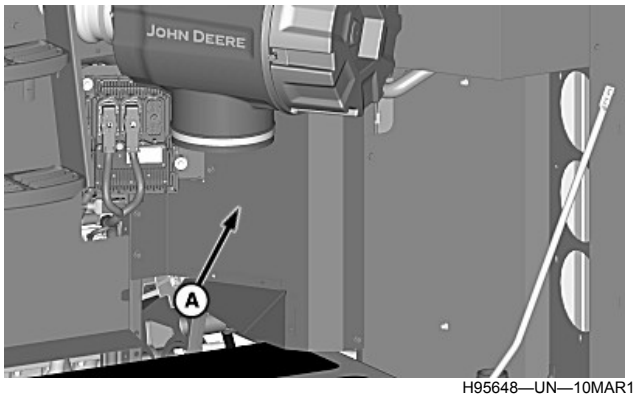
5. Pull latches (A) and open rotary screen door (B).



H95647—UN—10MAR10

A—Nut (7 used)
B—Clamps
C—Air Duct

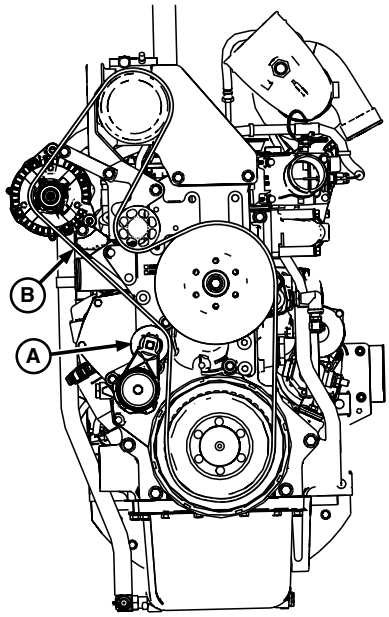
6. Remove nuts (A) and loosen hose clamps (B).
7. Lay air duct (C) out of the way.



H95648—UN—10MAR10

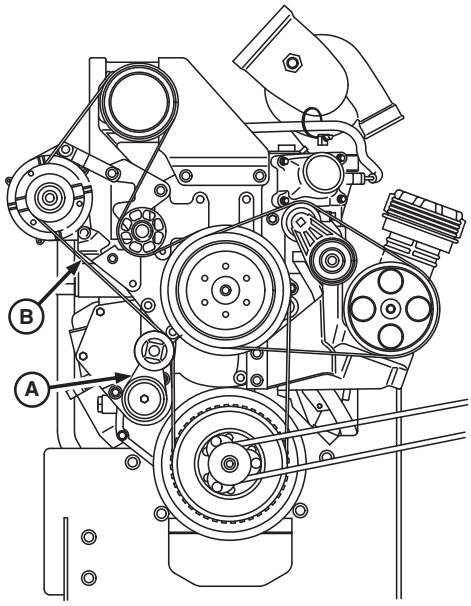
A—Shield

8. Remove shield (A).



H95702—UN—15MAR10

Engine Accessory/Fan Drive Belt Without Air Compressor

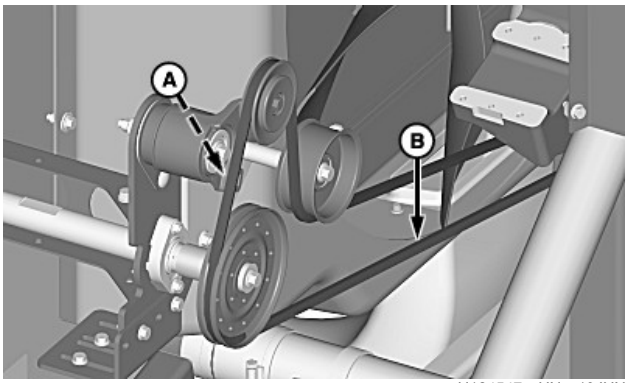


H113079—UN—02MAR15

Engine Accessory/Fan Drive Belt With Air Compressor

A—Tensioner Arm
B—Engine Accessory/Fan Drive Belt

9. Use breaker bar to relieve belt tension from the tensioner arm (A).
10. Remove belt (B) and work belt over fan blades to remove.
11. Install replacement belt over the fan blades.
12. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.



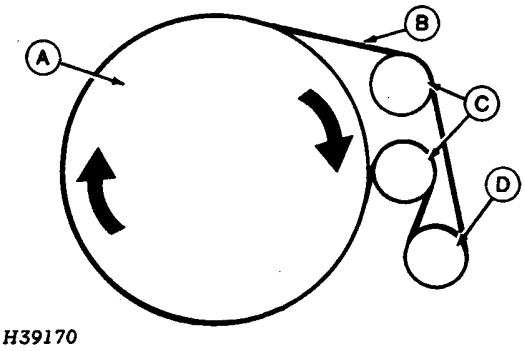
H124547—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

13. Use breaker bar to relieve tension from the tensioner arm (A) to install rotary screen drive belt (B).
14. Install previously removed shield (front side).
15. Close separator access cover and lower handrail.
16. Install previously removed shield (rear side) and air duct.
17. Close and latch the rotary screen door.

OUO6075,00049E6-19-20JUN18

Rotary Screen Belt—Routing

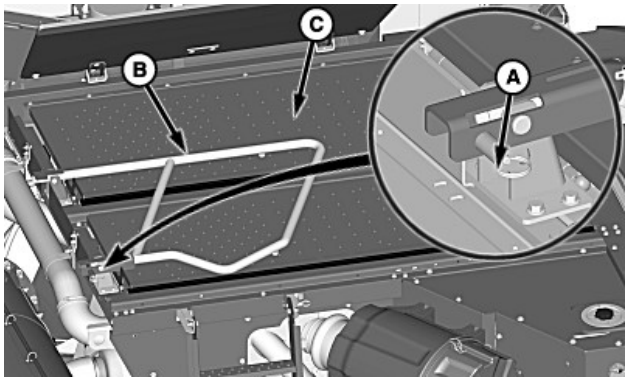


H39170—UN—11OCT88

A—Rotary Screen
B—Belt
C—Idlers
D—Drive Sheave

OUO6075,00006CE-19-05MAR10

Rotary Screen Drive Belt—Replacing (Tier 2/Stage II)

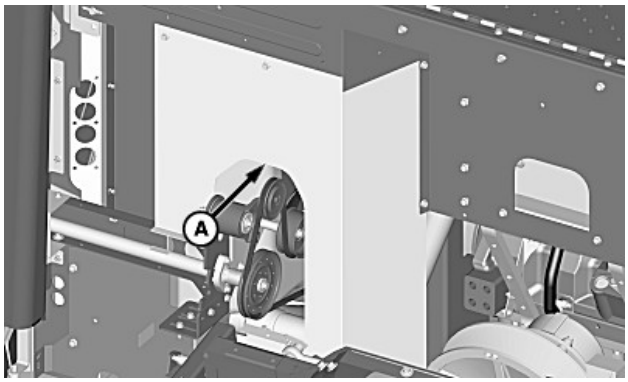


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

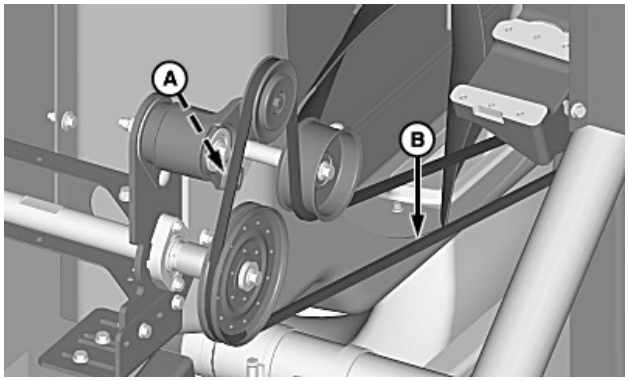


H124546—UN—19JUN18

Front Side Of Engine

A—Shield

2. Remove shield (A).



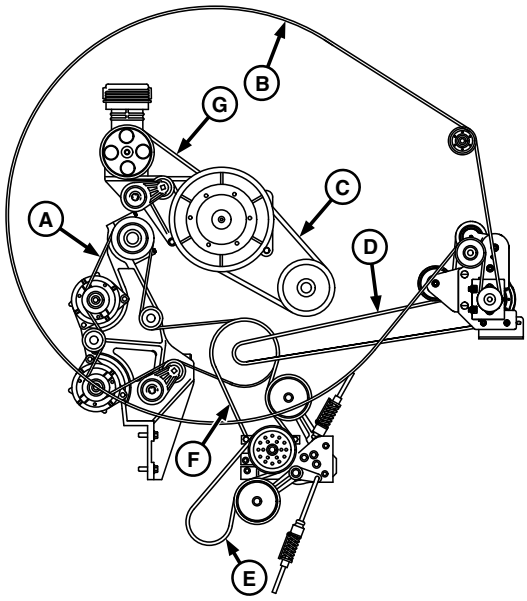
H124547—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).
5. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.
6. Install previously removed shield, close separator access cover, and lower handrail.

OUO6075,00049E7-19-20JUN18

Engine Belt—Routing (Final Tier 4/Stage V)

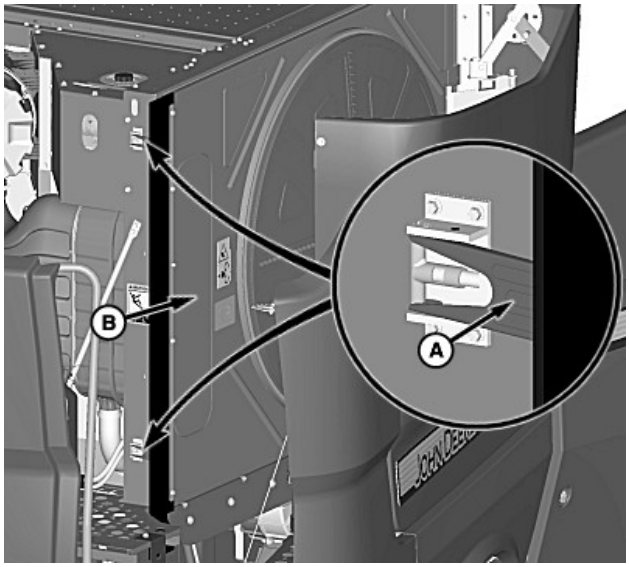


H124553—UN—21JUN18

A—Air Conditioner Compressor, Alternator Belt
B—Rotary Screen Drive Belt, Screen Side
C—Variable Speed Fan Belt
D—Rotary Screen Drive Belt, Engine Side
E—Vacuum Fan Driven Belt, Fan Side
F—Vacuum Fan Drive Belt, Engine Side
G—Air Compressor Belt (If Equipped)

OUO6075,00049EC-19-20JUN18

Air Conditioner Compressor/Alternator Belt —Replacing (Final Tier 4/Stage V)

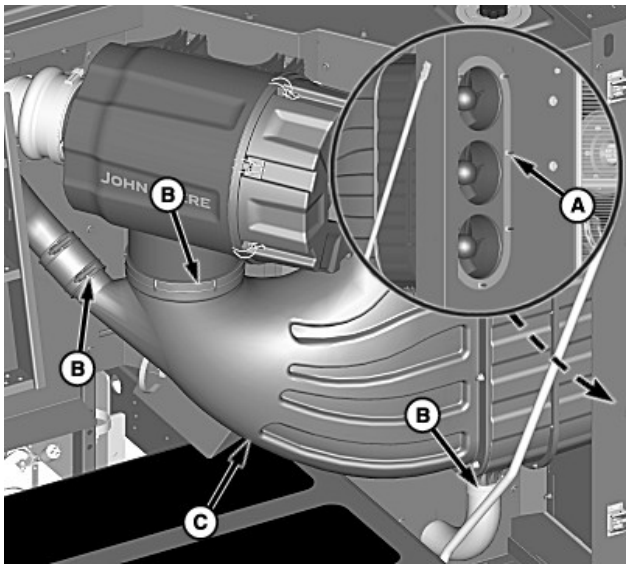


H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

CAUTION: Shut OFF engine, set park brake and remove key.

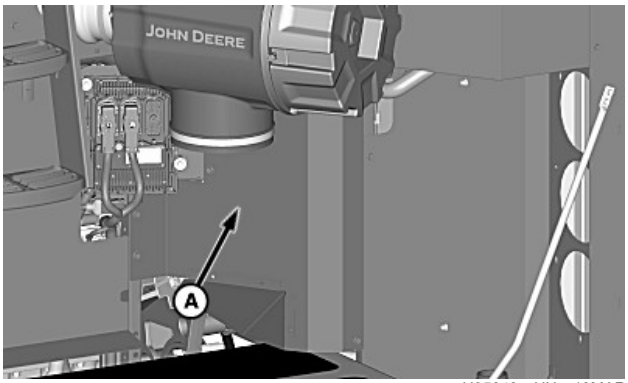
1. Pull latches (A) and open rotary screen door (B).



H110003—UN—18MAR14

A—Nut (7 used)
B—Clamps
C—Air Duct

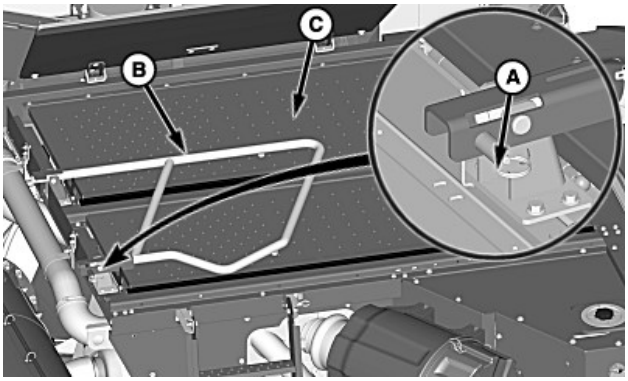
2. Remove nuts (A) and loosen hose clamps (B).
3. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

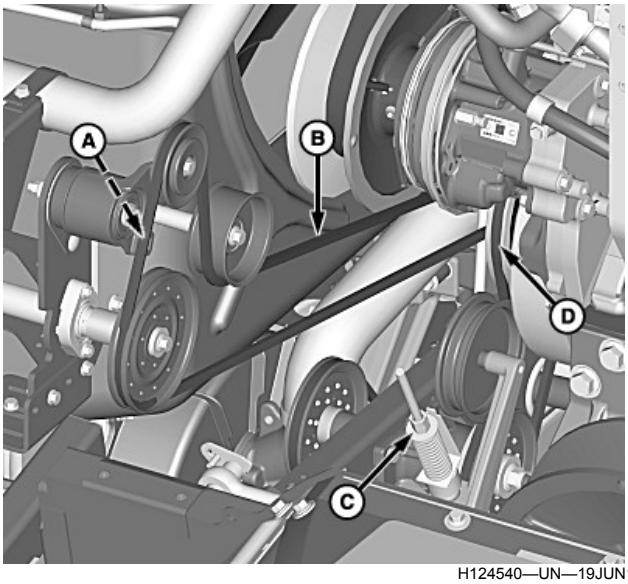
4. Remove shield (A).



H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

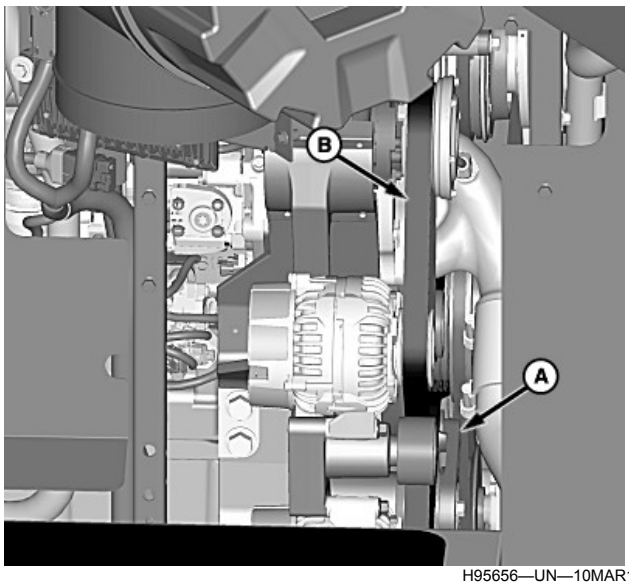
5. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).



H124540—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt
C—Nut (2 used)
D—Vacuum Fan Drive Belt

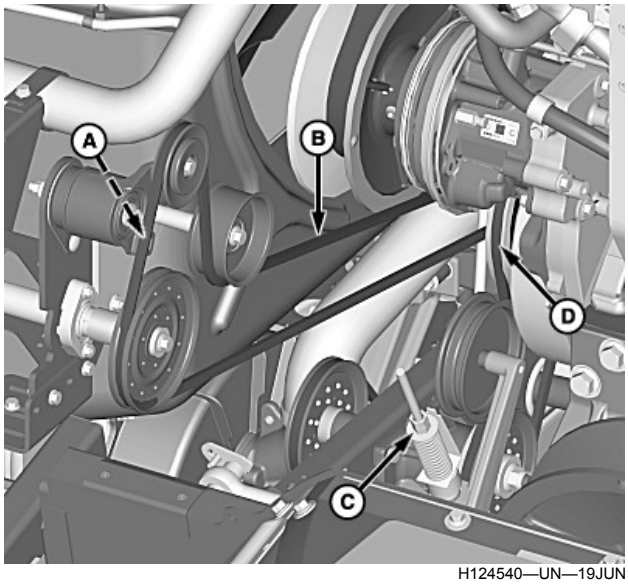
6. Use breaker bar to relieve belt tension from the tensioner arm (A).
7. Remove rotary screen drive belt (B).
8. Loosen nuts (C) and remove the vacuum fan drive belt (D).



H95656—UN—10MAR10

A—Tensioner Arm
B—Belt

9. Use breaker bar to relieve belt tension from the tensioner arm (A).
10. Remove belt (B) and work belt over fan blades to remove.
11. Install replacement belt over the fan blades.
12. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.



H124540—UN—19JUN18

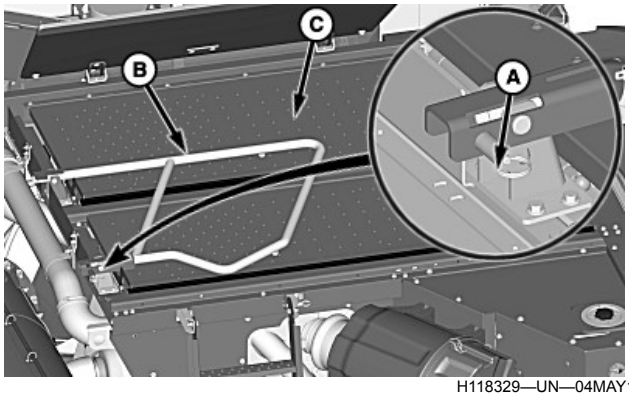
A—Tensioner Arm
B—Rotary Screen Drive Belt
C—Nut (2 used)

D—Vacuum Fan Drive Belt

13. Install the vacuum fan drive belt (D).
14. Tighten nuts (C) until washer is positioned between end of gauge and bottom of step.
15. Use breaker bar to relieve tension from the tensioner arm (A) to install rotary screen drive belt (B).
16. Close separator access cover and lower handrail.
17. Install previously removed shield (rear side) and air duct.
18. Close and latch the rotary screen door.

OUO6075,00049DD-19-20JUN18

Rotary Screen Drive Belt—Replacing (Final Tier 4/Stage V)

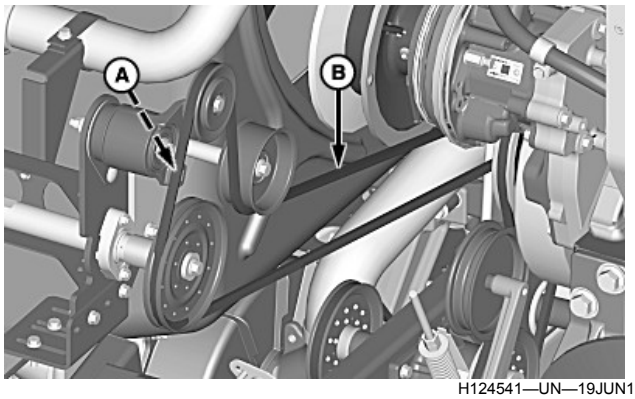


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).



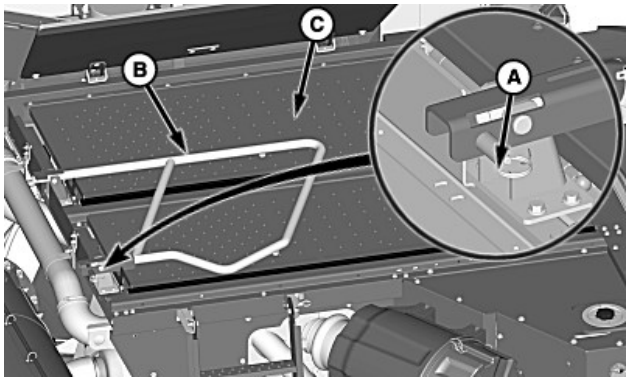
H124541—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

2. Use breaker bar to relieve belt tension from the tensioner arm (A).
3. Remove rotary screen drive belt (B).
4. Use breaker bar to relieve tension from the tensioner arm to install replacement rotary screen drive belt.
5. Close separator access cover and lower handrail.

OUO6075,00049DE-19-20JUN18

Vacuum Fan Drive Belt—Replacing (Final Tier 4/Stage V)

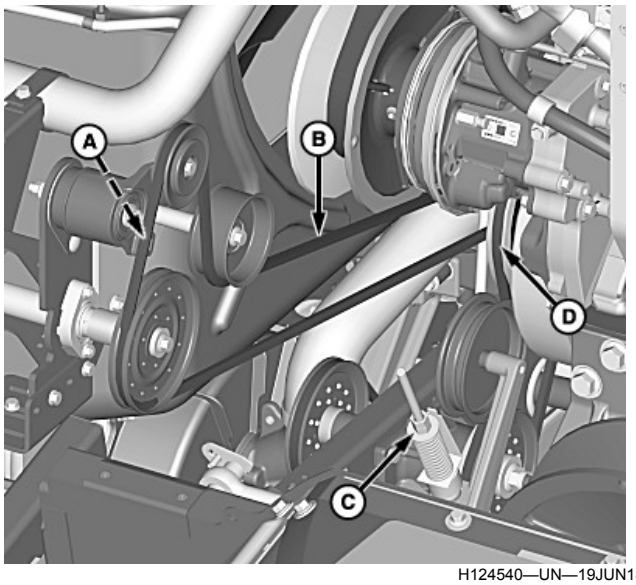


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).



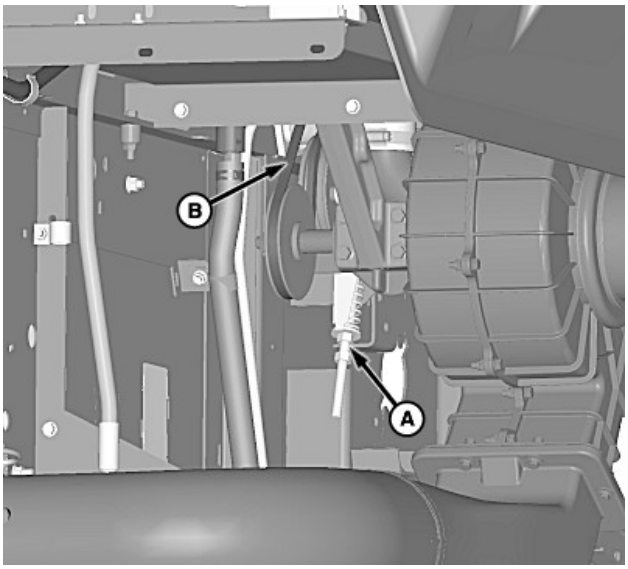
H124540—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt
C—Nut (2 used)
D—Vacuum Fan Drive Belt

2. Use breaker bar to relieve belt tension from the tensioner arm (A).
3. Remove rotary screen drive belt (B).
4. Loosen nuts (C) and remove the vacuum fan drive belt (D).
5. Install the replacement vacuum fan drive belt and tighten nut until washer is positioned between end of gauge and bottom of step.
6. Use breaker bar to relieve tension from the tensioner arm to install rotary screen drive belt.
7. Close separator access cover and lower handrail.

OUO6075,00049DF-19-20JUN18

Vacuum Fan Driven Belt—Replacing (Final Tier 4/Stage V)



H95667—UN—11MAR10

A—Nuts
B—Vacuum Fan Driven Belt

CAUTION: Shut OFF engine, set park brake and remove key.

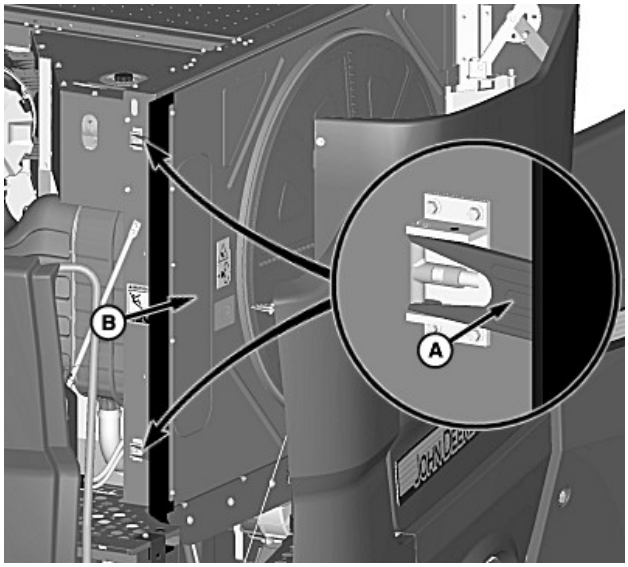
Loosen nuts (A) and remove vacuum fan driven belt (B) located below radiator.

Install replacement vacuum fan driven belt.

Tighten nuts until the washer is positioned between the end of gauge and bottom of step.

OUO6075,0004814-19-14NOV17

Variable Speed Fan Drive Belt—Replacing (Final Tier 4/Stage V)

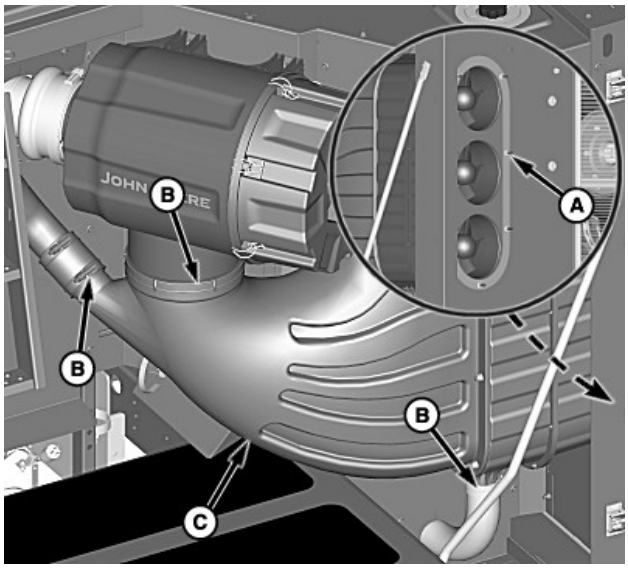


H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

CAUTION: Shut OFF engine, set park brake and remove key.

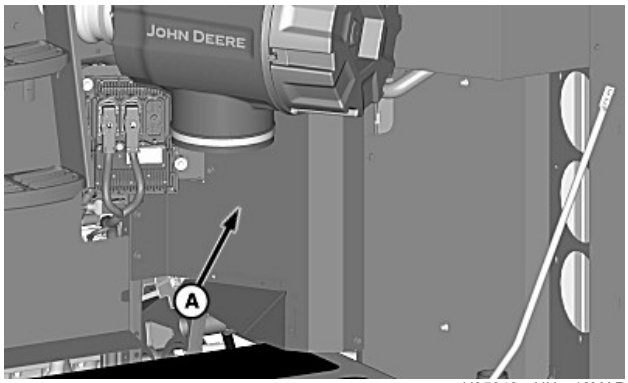
1. Pull latches (A) and open rotary screen door (B).



H110003—UN—18MAR14

A—Nuts (7 Used)
B—Clamps
C—Air Duct

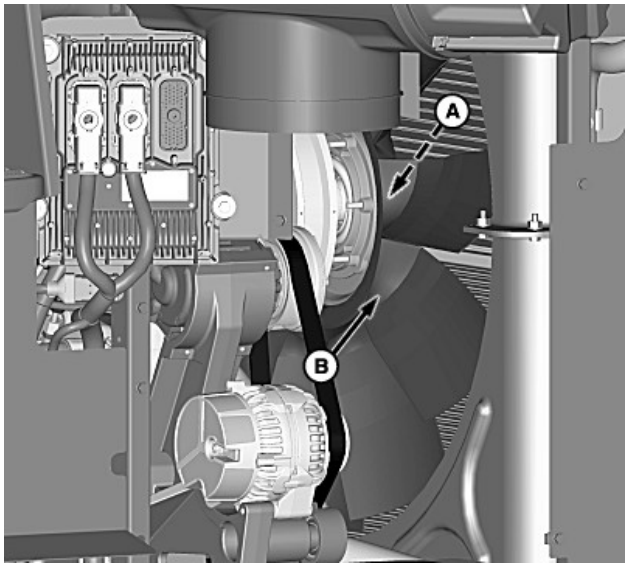
2. Remove nuts (A) and loosen hose clamps (B).
3. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

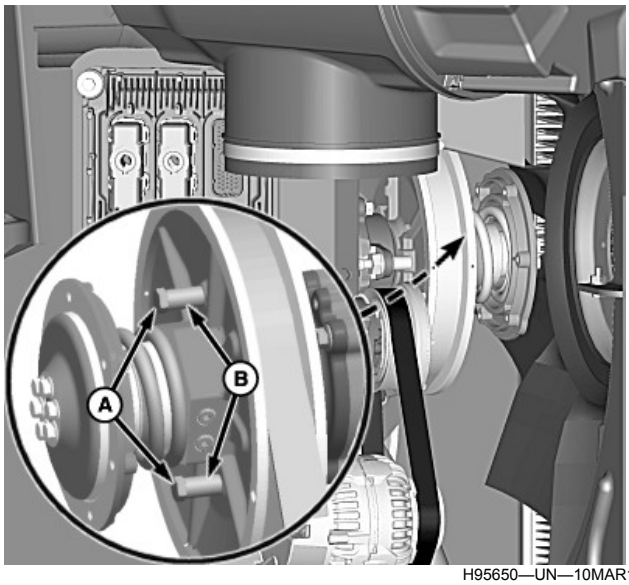
4. Remove shield (A).



H95649—UN—10MAR10

A—Cap Screws (6 Used)
B—Fan Assembly

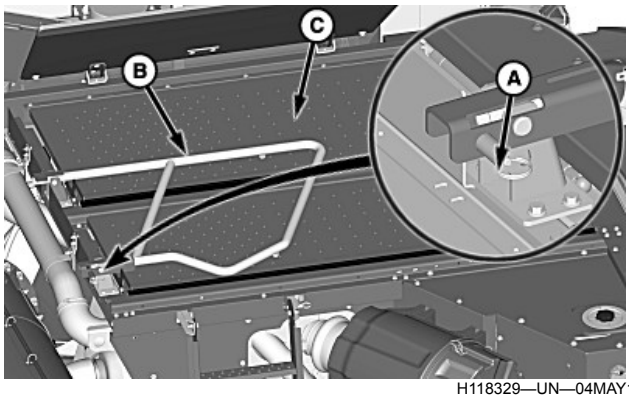
5. Remove cap screws (A) from fan assembly (B).
6. Lay fan assembly out of the way.



H95650—UN—10MAR10

A—Cap Screws
B—Spacers

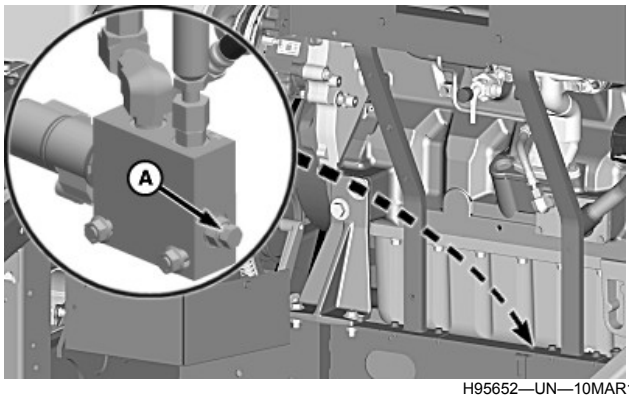
7. Remove cap screws (A) and spacers (B).
8. Install previously removed cap screws until spring is compressed completely.



H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

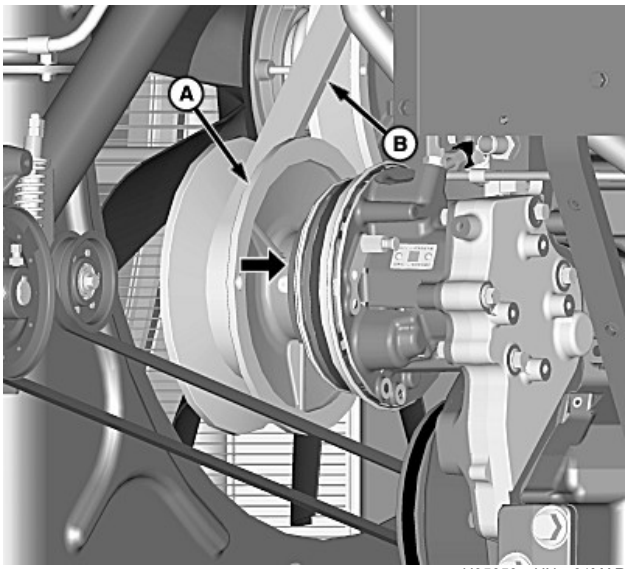
9. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).



H95652—UN—10MAR10

A—Bleed Screw

10. Locate valve on the front side of the support rail and loosen bleed screw (A) to relieve pressure from sheaves.



H95653—UN—31MAR10

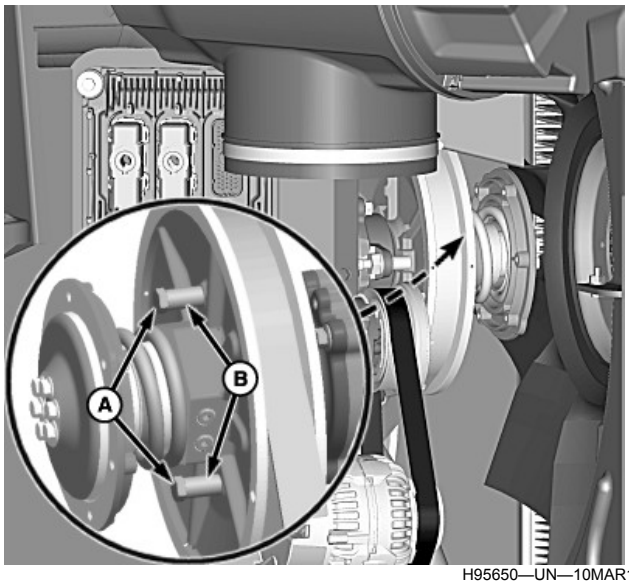
A—Sheave
B—Variable Speed Belt

11. With the bleed screw loose, pull sheave (A) towards engine until completely open.
12. Remove variable speed belt (B).

NOTE: Before installing the replacement variable speed belt, visually inspect air compressor belt (if equipped) for wear. Replace air compressor belt (if equipped) if needed. See Air Compressor Belt (If Equipped)—Replacing (Final Tier 4/Stage V) for further information.

Variable speed belt MUST be installed over the driver sheave first and then over driven sheave.

13. Install the replacement variable speed belt.

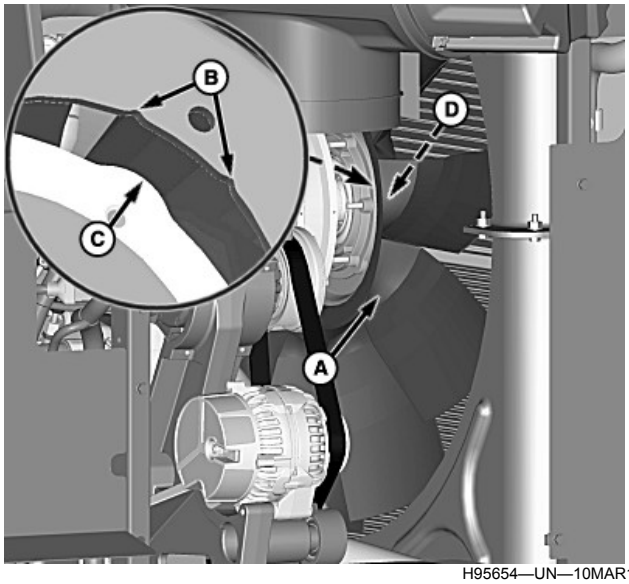


H95650—UN—10MAR10

A—Cap Screws
B—Spacers

IMPORTANT: Spring MUST be uncompressed to allow variable speed fan to adjust speed.

14. With the variable speed belt installed, remove cap screws (A) to uncompress spring and install previously removed spacers (B) as shown.



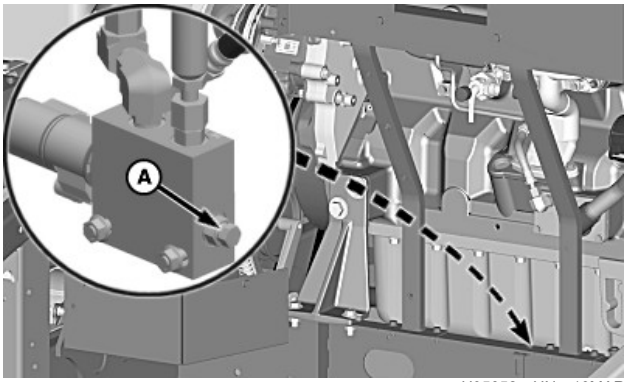
H95654—UN—10MAR10

A—Fan Assembly
B—Index Marks
C—Boss
D—Cap Screws (6 Used)

15. Install fan assembly (A) so index marks (B) are positioned on either side of boss (C).
16. Install previously removed cap screws (D). Tighten cap screws to specification.

Specification

Cap Screws—Torque	40 N·m (30 lb·ft)



H95652—UN—10MAR10

A—Bleed Screw and Nut

17. Locate valve on the front side of the support rail and tighten bleed screw and nut (A) to specification.

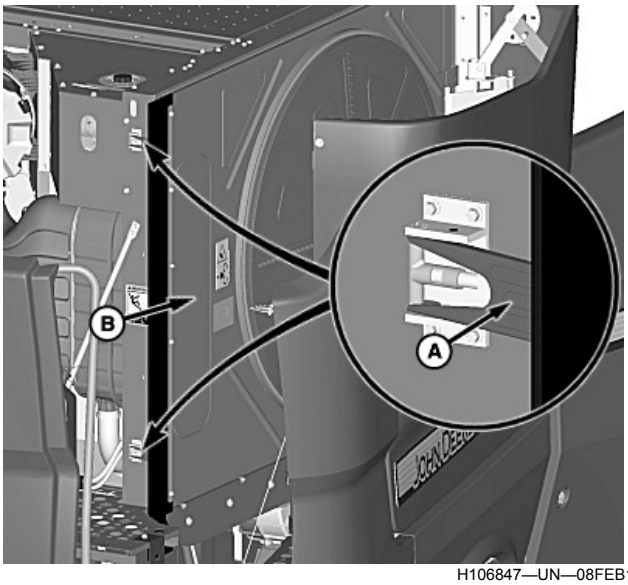
Specification

Bleed Screw and Nut—Torque. . . . . 23 N·m (17 lb·ft)

18. Close separator access cover and lower handrail.
19. Install previously removed shield (rear side) and air duct.
20. Close and latch the rotary screen door.

OUO6075,0004815-19-14NOV17

Air Compressor Belt (If Equipped)—Replacing (Final Tier 4/Stage V)

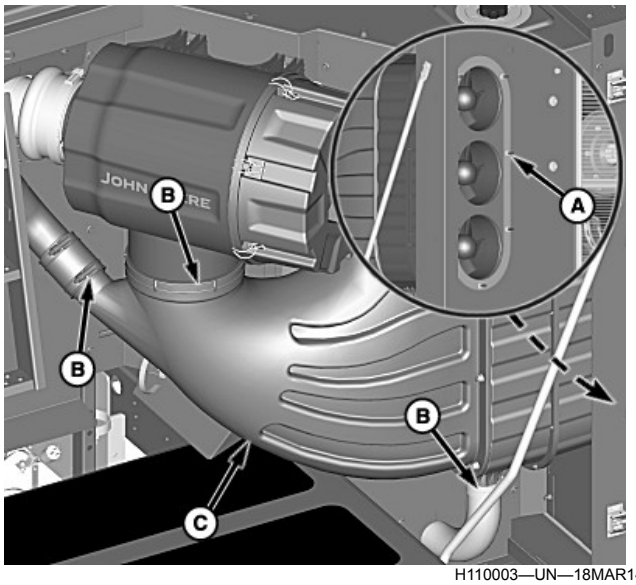


H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

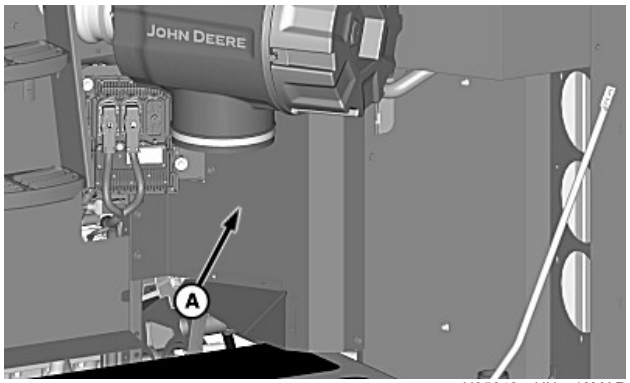
1. Pull latches (A) and open rotary screen door (B).



H110003—UN—18MAR14

A—Nuts (7 Used)
B—Clamps
C—Air Duct

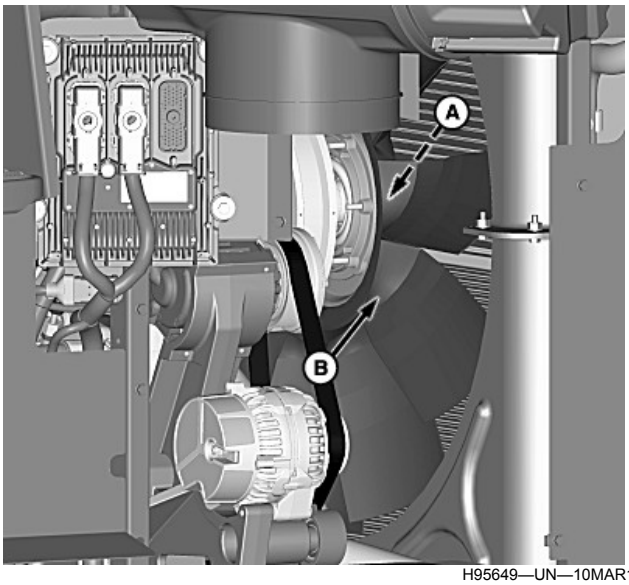
2. Remove nuts (A) and loosen hose clamps (B).
3. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

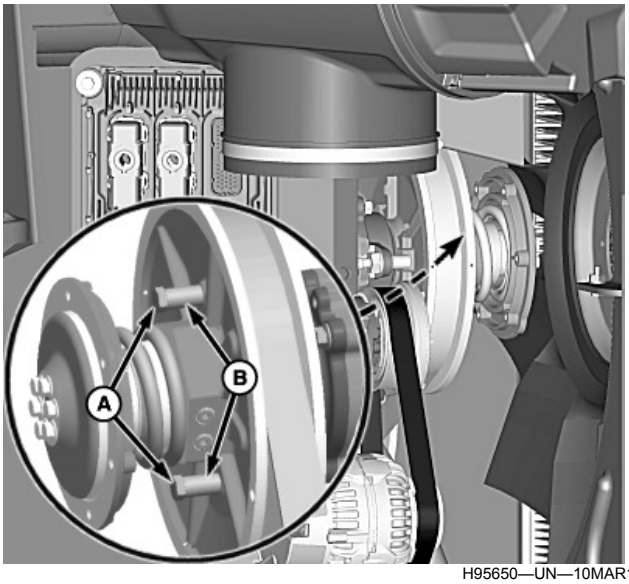
4. Remove shield (A).



H95649—UN—10MAR10

A—Cap Screws (6 Used)
B—Fan Assembly

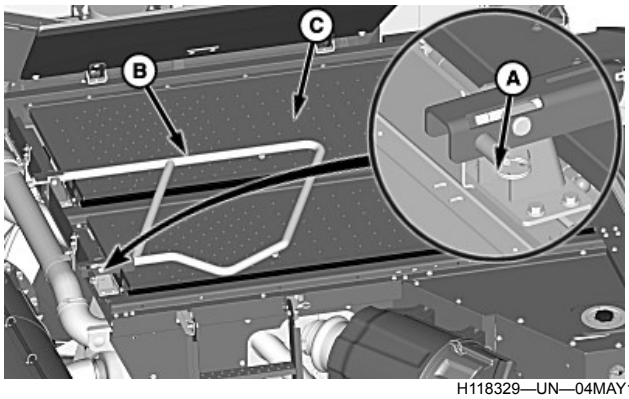
5. Remove cap screws (A) from fan assembly (B).
6. Lay fan assembly out of the way.



H95650—UN—10MAR10

A—Cap Screws
B—Spacers

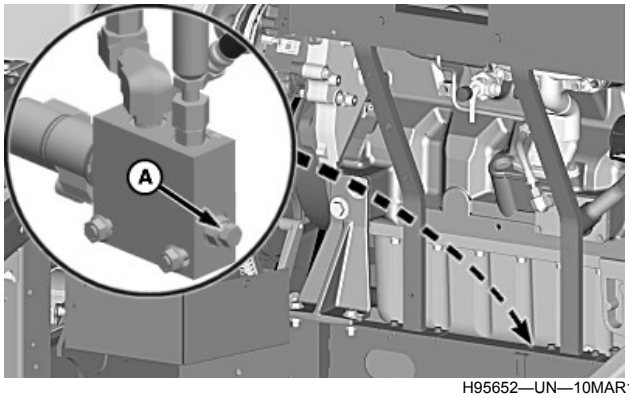
7. Remove cap screws (A) and spacers (B).
8. Install previously removed cap screws until spring is compressed completely.



H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

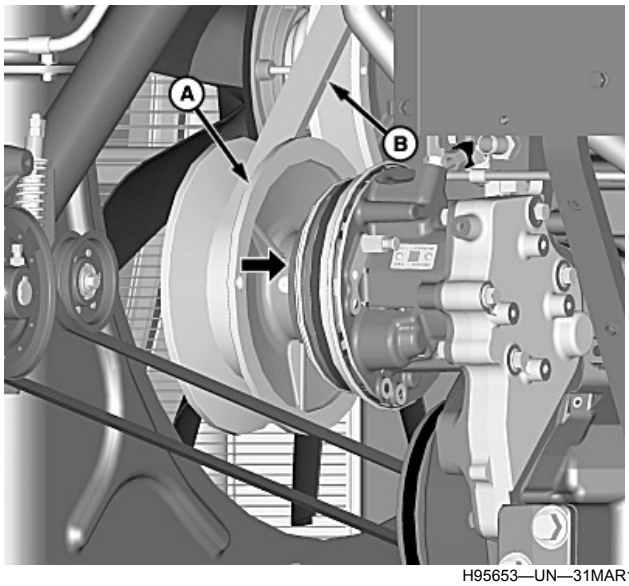
9. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).



H95652—UN—10MAR10

A—Bleed Screw

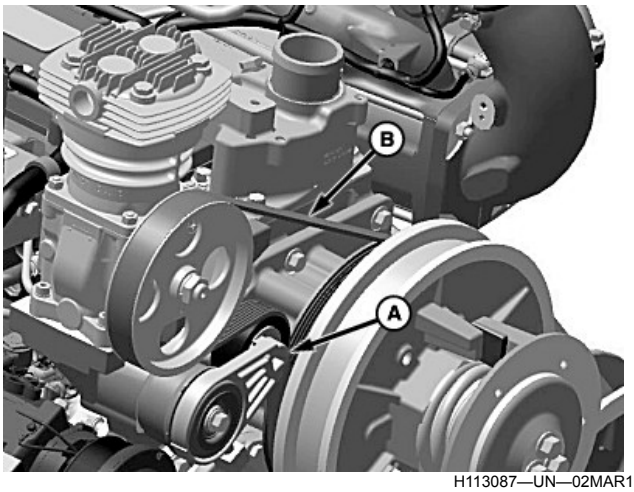
10. Locate valve on the front side of the support rail and loosen bleed screw (A) to relieve pressure from sheaves.



H95653—UN—31MAR10

A—Sheave
B—Variable Speed Belt

11. With the bleed screw loose, pull sheave (A) towards engine until completely open.
12. Remove variable speed belt (B).



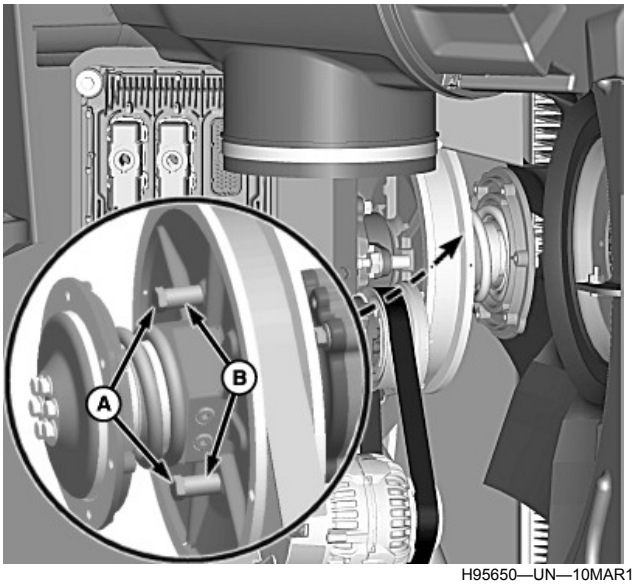
H113087—UN—02MAR15

A—Tensioner Arm
B—Air Compressor Belt

13. Use breaker bar to relieve belt tension from the tensioner arm (A).
14. Remove air compressor belt (B).
15. Install the replacement air compressor belt.

NOTE: Belt MUST be installed over the driver sheave first and then over driven sheave.

16. Install variable speed belt.

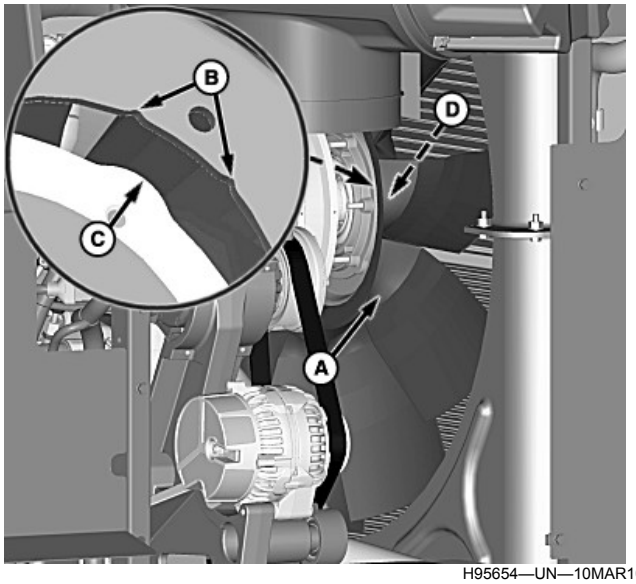


H95650—UN—10MAR10

A—Cap Screws
B—Spacers

IMPORTANT: Spring MUST be uncompressed to allow variable speed fan to adjust speed.

17. With the variable speed belt installed, remove cap screws (A) to uncompress spring and install previously removed spacers (B) as shown.



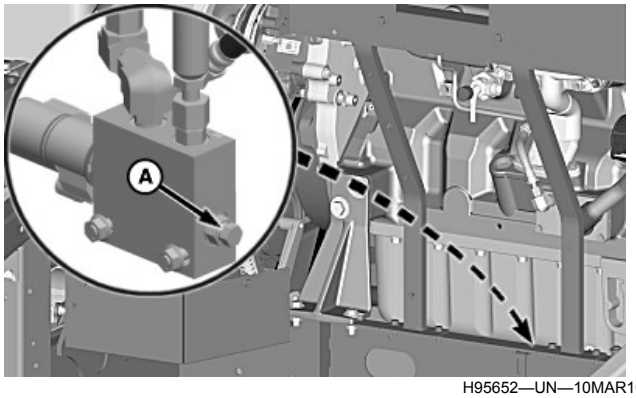
H95654—UN—10MAR10

A—Fan Assembly
B—Index Marks
C—Boss
D—Cap Screws (6 Used)

18. Install fan assembly (A) so index marks (B) are positioned on either side of boss (C).
19. Install previously removed cap screws (D). Tighten cap screws to specification.

Specification

Cap Screws—Torque. . . . . 40 N·m (30 lb·ft)



H95652—UN—10MAR10

A—Bleed Screw and Nut

20. Locate valve on the front side of the support rail and tighten bleed screw and nut (A) to specification.

Specification

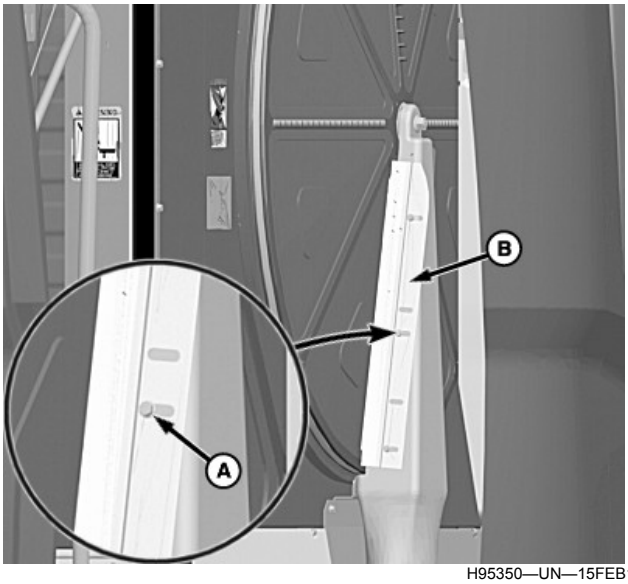
Bleed Screw and Nut—Torque. . . . . 23 N·m (17 lb·ft)

21. Close separator access cover and lower handrail.
22. Install previously removed shield (rear side) and air duct.

23. Close and latch the rotary screen door.

OUO6075,0004816-19-14NOV17

Rotary Screen Brush—Adjustment



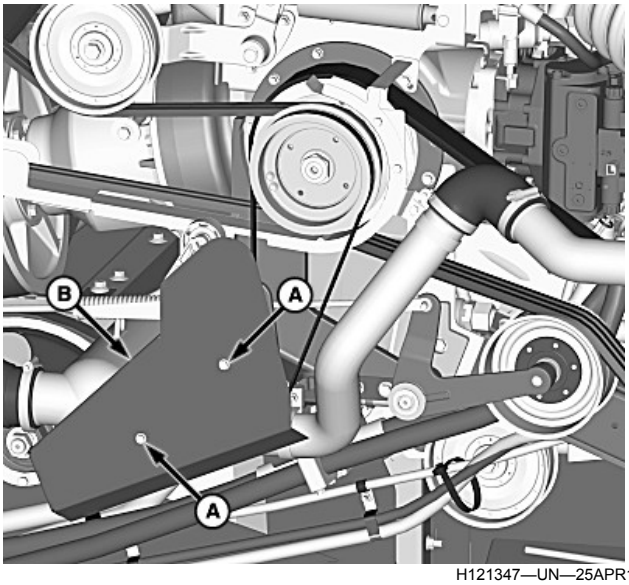
H95350—UN—15FEB10

A—Cap Screws
B—Brush

Loosen cap screws (A) and adjust brush (B) as needed to remove crop debris.

OUO6075,00005A0-19-16FEB10

Engine Debris Management Belt—Replacing (Final Tier 4/Stage V)

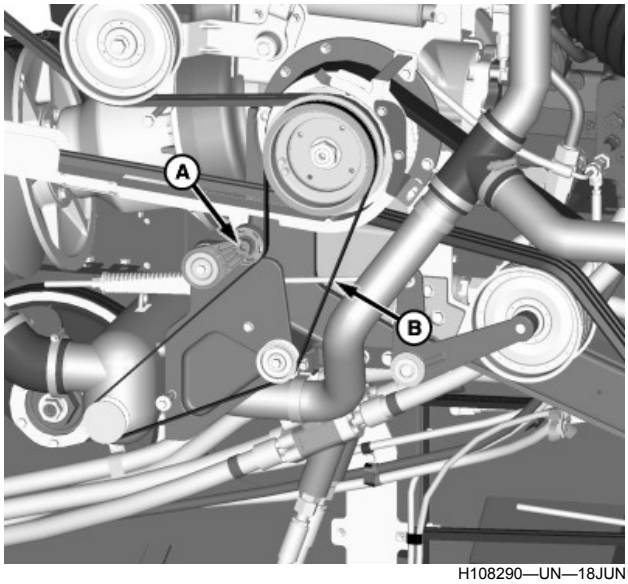


H121347—UN—25APR17

A—Cap Screws
B—Shield

CAUTION: Shut OFF engine, set park brake and remove key.

Remove cap screws (A) and shield (B).



H108290—UN—18JUN13

A—Tensioner Arm
B—Engine Debris Management Belt

Use breaker bar to relieve tension from the tensioner arm (A) to remove the engine debris management belt (B).

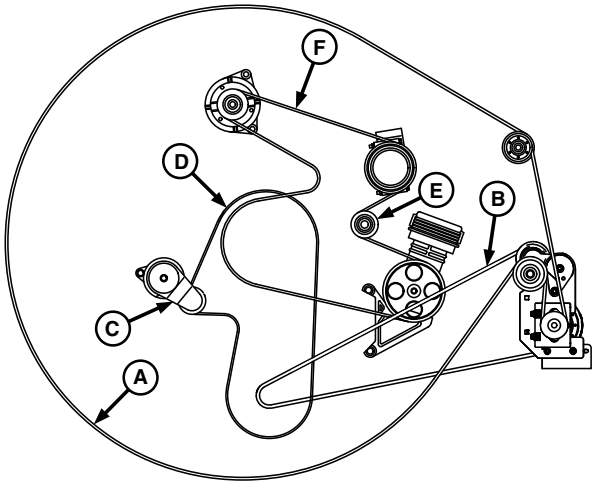
Remove belt and install replacement belt in reverse order.

Use breaker bar to relieve tension from the tensioner arm to install belt.

Install shield and retain with cap screws.

OUO6075,0004817-19-14NOV17

Engine Belt—Routing (Tier 2/Stage II)

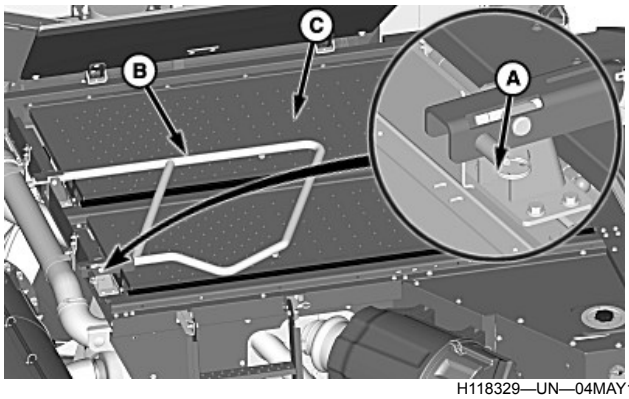


H124554—UN—21JUN18

A—Belt, Rotary Screen (Driven)
B—Belt, Rotary Screen (Drive)
C—Tensioner, Fan
D—Belt, Fan
E—Tensioner, Accessory
F—Belt, Accessory and Air Compressor (If Equipped)

OUO6075,00049F0-19-20JUN18

Engine Accessory/Air Compressor (If Equipped) Belt—Replacing (Tier 2/Stage II)

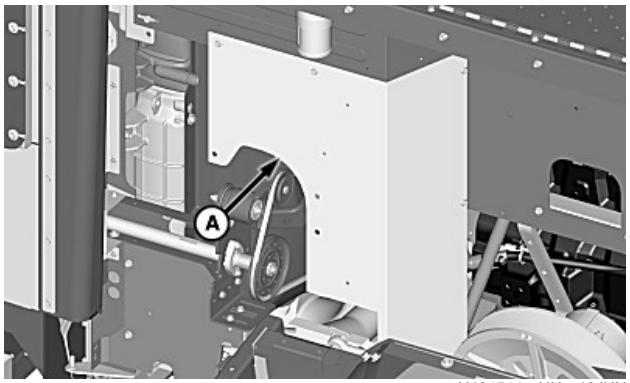


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

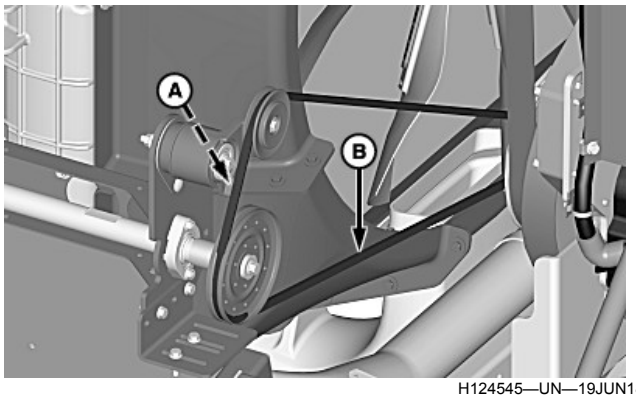


H124544—UN—19JUN18

Front Side Of Engine

A—Shield

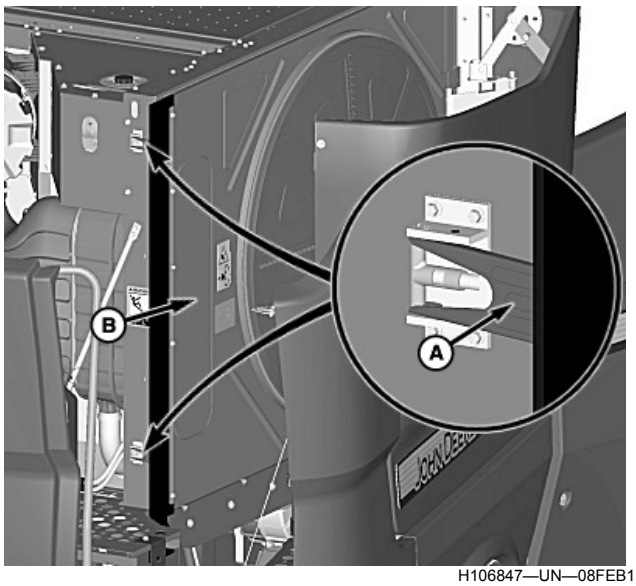
2. Remove shield (A).



H124545—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

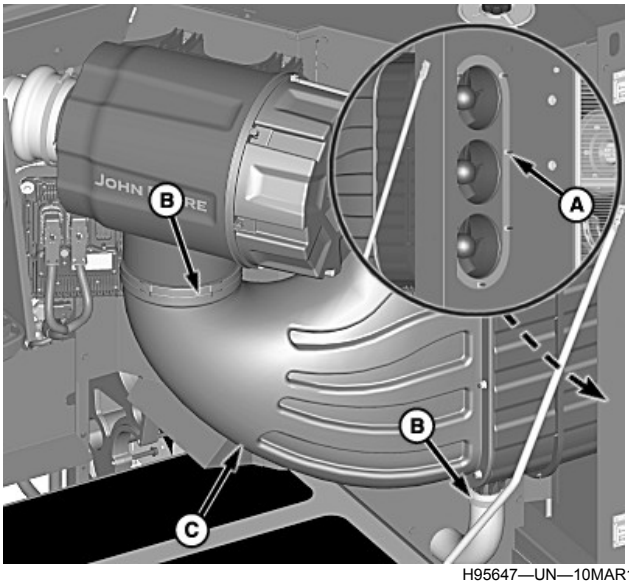
3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).



H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

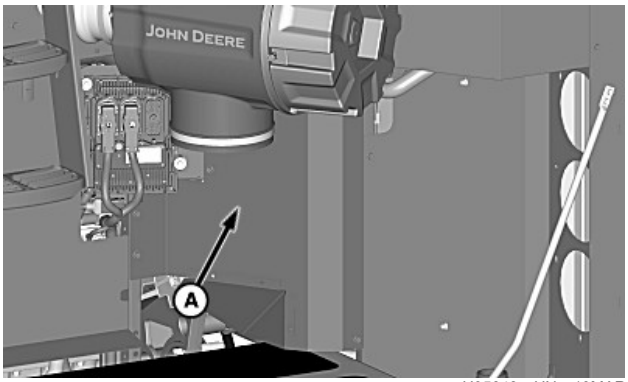
5. Pull latches (A) and open rotary screen door (B).



H95647—UN—10MAR10

A—Nut (7 used)
B—Clamps
C—Air Duct

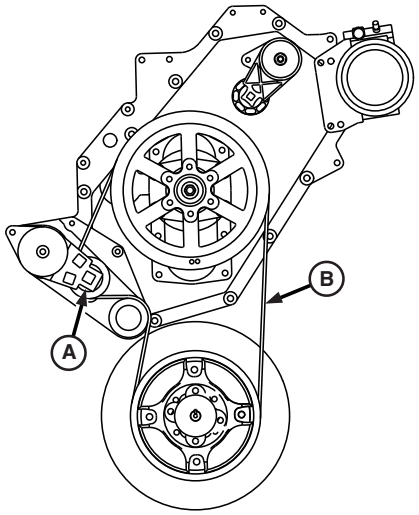
6. Remove nuts (A) and loosen hose clamps (B).
7. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

8. Remove shield (A).

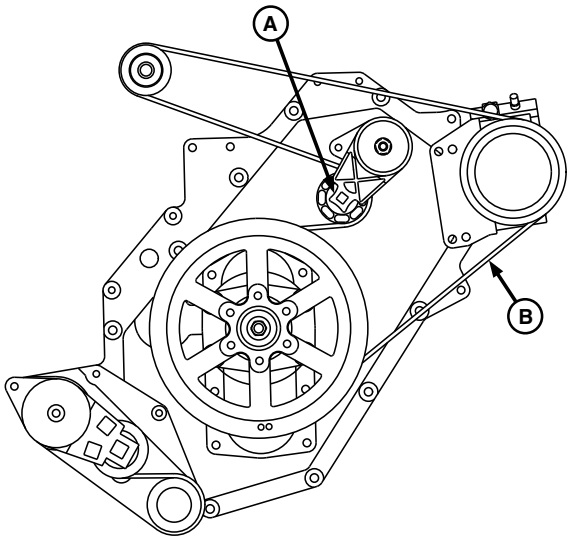


H71844—UN—25APR02

Fan Belt Routing

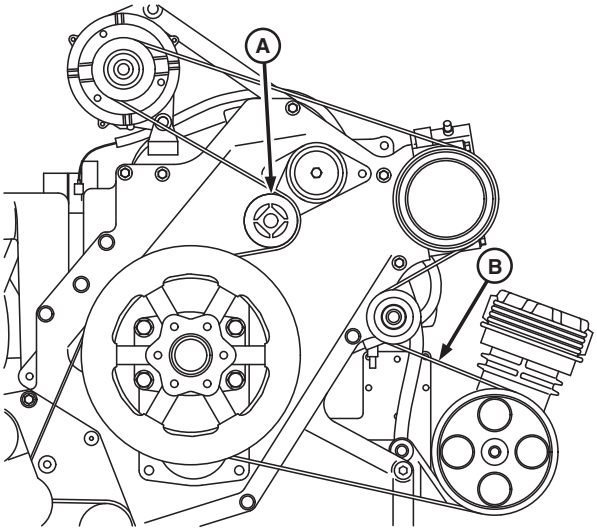
A—Tensioner Arm
B—Fan Belt

9. Use breaker bar to relieve belt tension from the tensioner arm (A).
10. Remove belt (B) and work belt over fan blades to remove.



H82475—UN—17FEB05

Accessory Belt Routing Without Air Compressor

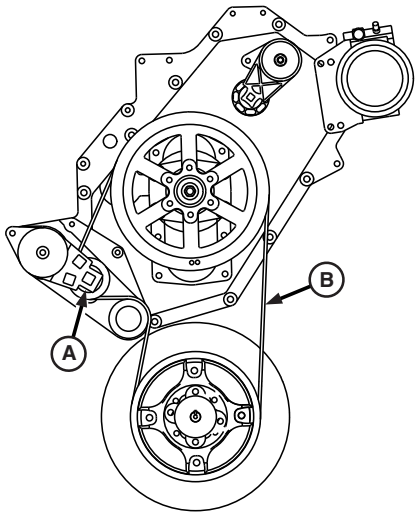


H113080—UN—02MAR15

Accessory Belt Routing With Air Compressor

A—Tensioner Arm
B—Accessory Belt

11. Use breaker bar to relieve belt tension from the tensioner arm (A).
12. Remove belt (B) and work belt over fan blades to remove.
13. Install replacement belt over the fan blades.
14. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.

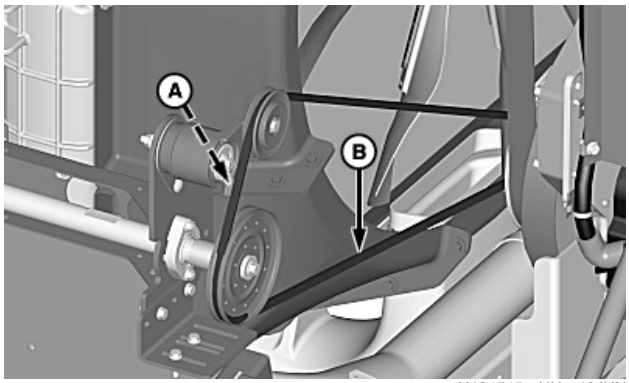


H71844—UN—25APR02

Fan Belt Routing

A—Tensioner Arm
B—Fan Belt

15. Use breaker bar to relieve belt tension from the tensioner arm (A).
16. Install previously removed belt (B) and work belt over fan.



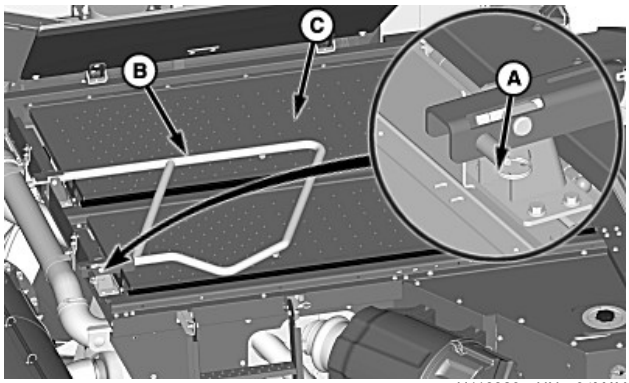
H124545—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

17. Use breaker bar to relieve tension from the tensioner arm (A) to install rotary screen drive belt (B).
18. Install previously removed shield (front side).
19. Close separator access cover and lower handrail.
20. Install previously removed shield (rear side) and air duct.
21. Close and latch the rotary screen door.

OUO6075,00049E8-19-20JUN18

Fan Drive Belt—Replacing (Tier 2/Stage II)

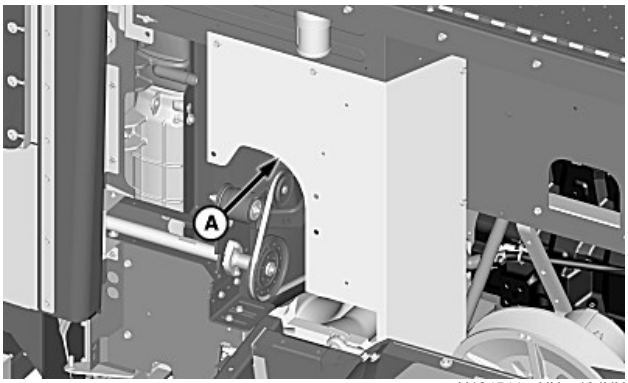


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

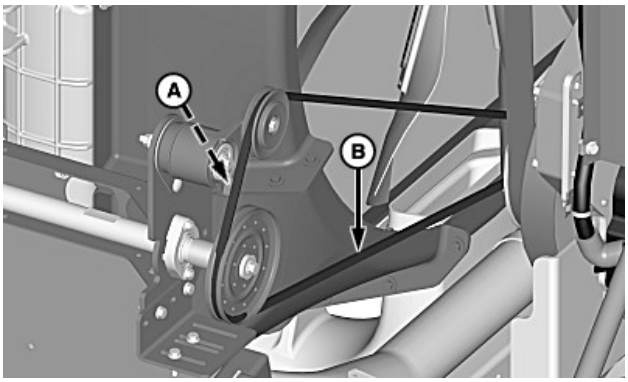


H124544—UN—19JUN18

Front Side Of Engine

A—Shield

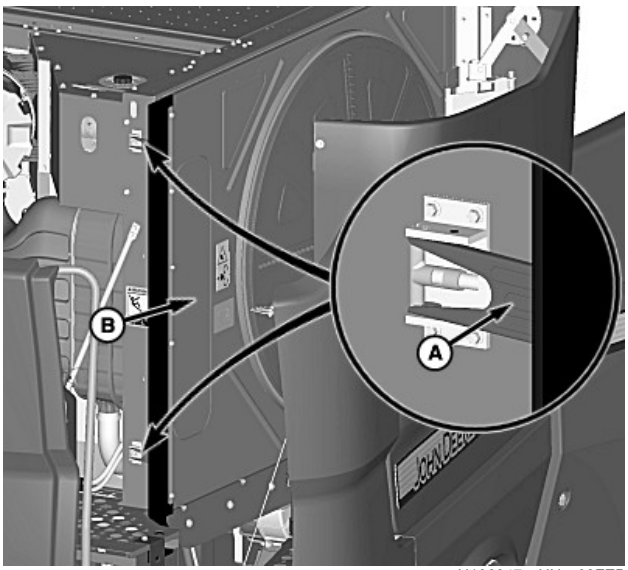
2. Remove shield (A).



H124545—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

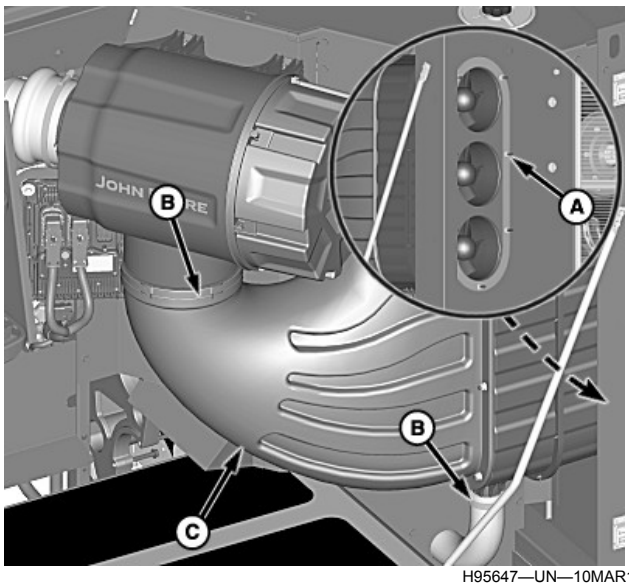
3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).



H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

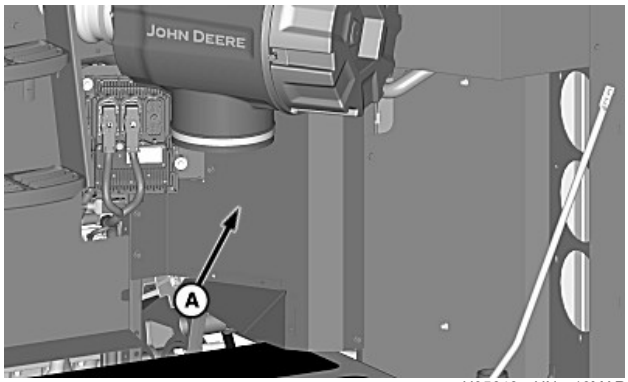
5. Pull latches (A) and open rotary screen door (B).



H95647—UN—10MAR10

A—Nut (7 used)
B—Clamps
C—Air Duct

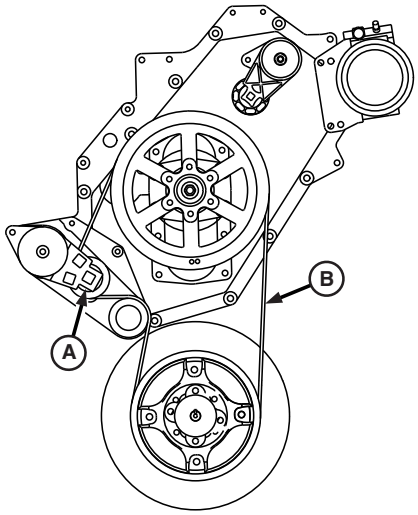
6. Remove nuts (A) and loosen hose clamps (B).
7. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

8. Remove shield (A).

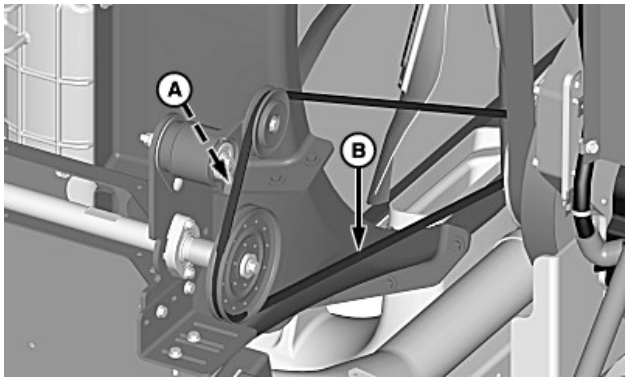


H71844—UN—25APR02

Fan Belt Routing

A—Tensioner Arm
B—Fan Belt

9. Use breaker bar to relieve belt tension from the tensioner arm (A).
10. Remove belt (B) and work belt over fan blades to remove.
11. Install replacement belt over the fan blades.
12. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.



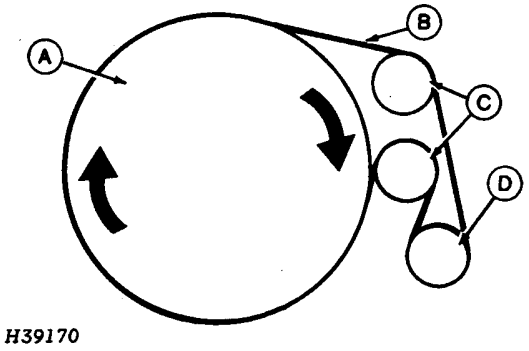
H124545—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

13. Use breaker bar to relieve tension from the tensioner arm (A) to install rotary screen drive belt (B).
14. Install previously removed shield (front side).
15. Close separator access cover and lower handrail.
16. Install previously removed shield (rear side) and air duct.
17. Close and latch the rotary screen door.

OUO6075,00049E9-19-20JUN18

Rotary Screen Belt—Routing

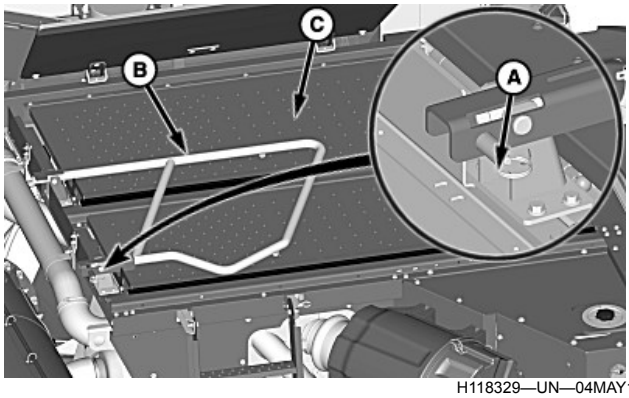


H39170—UN—11OCT88

A—Rotary Screen
B—Belt
C—Idlers
D—Drive Sheave

OUO6075,00006CE-19-05MAR10

Rotary Screen Drive Belt—Replacing (Tier 2/Stage II)

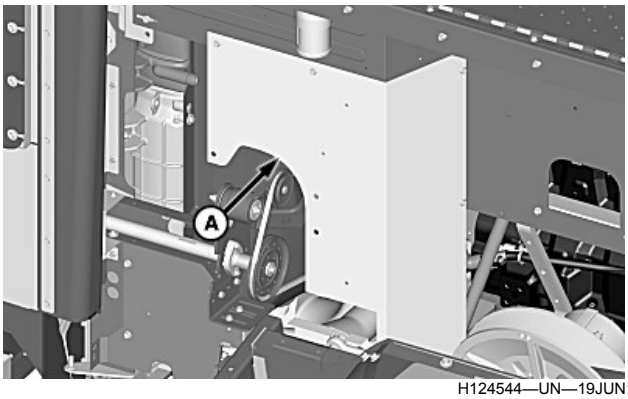


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

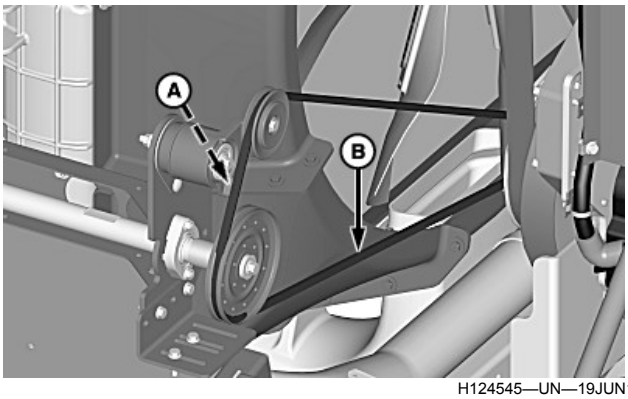


H124544—UN—19JUN18

Front Side Of Engine

A—Shield

2. Remove shield (A).



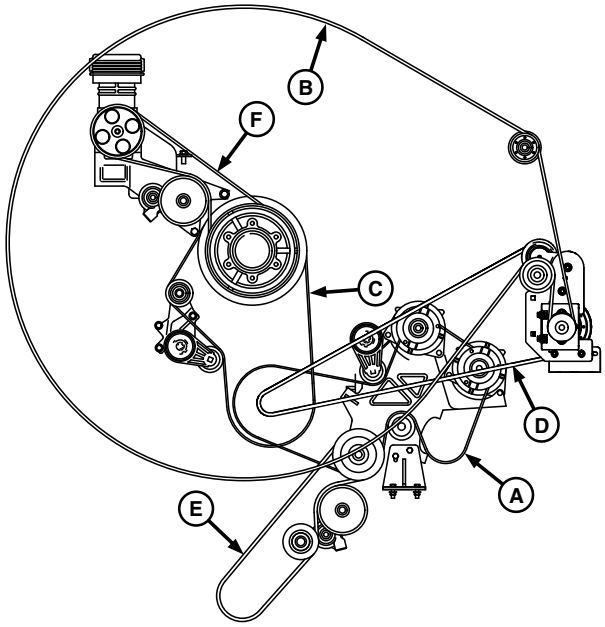
H124545—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).
5. Use breaker bar to relieve tension from the tensioner arm to install replacement rotary screen drive belt.
6. Install previously removed shield, close separator access cover, and lower handrail.

OUO6075,00049EA-19-20JUN18

Engine Belt—Routing (Final Tier 4/Stage V)

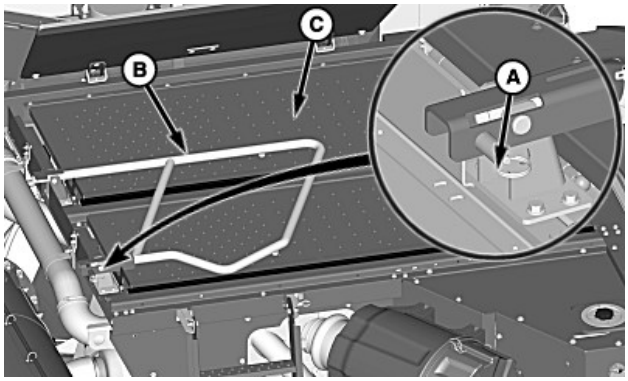


H124555—UN—21JUN18

A—Air Conditioner Compressor, Alternator Belt
B—Rotary Screen Drive Belt, Screen Side
C—Fan Drive Belt
D—Rotary Screen Drive Belt, Engine Side
E—Vacuum Fan Drive Belt
F—Air Compressor Belt (If Equipped)

OUO6075,00049EE-19-20JUN18

Air Conditioner Compressor/Alternator Belt —Replacing (Final Tier 4/Stage V)

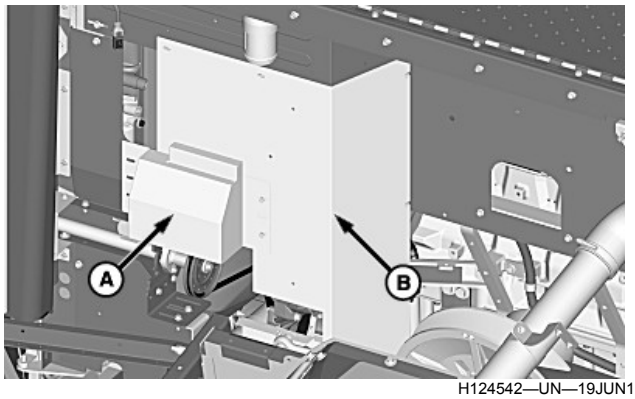


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

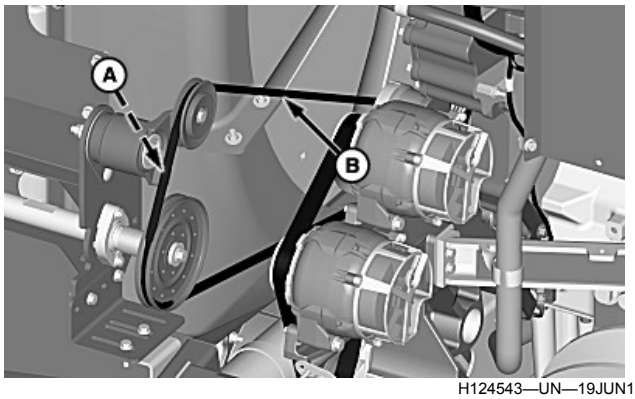


H124542—UN—19JUN18

Front Side Of Engine

A—Shield
B—Shield

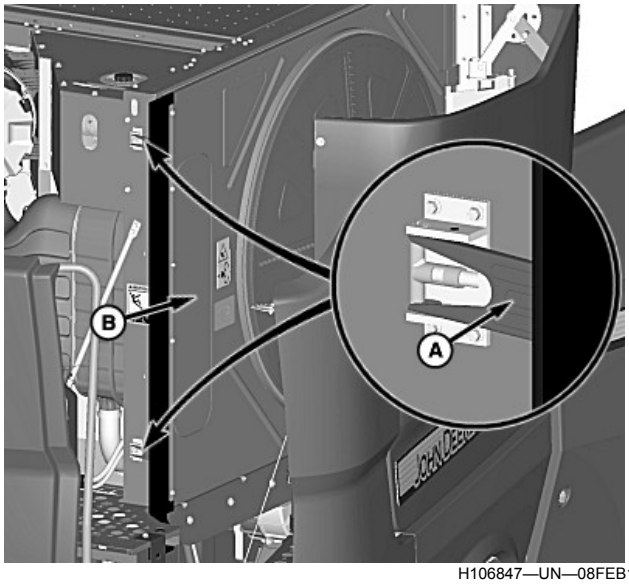
2. Remove shield (A) and shield (B).



H124543—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

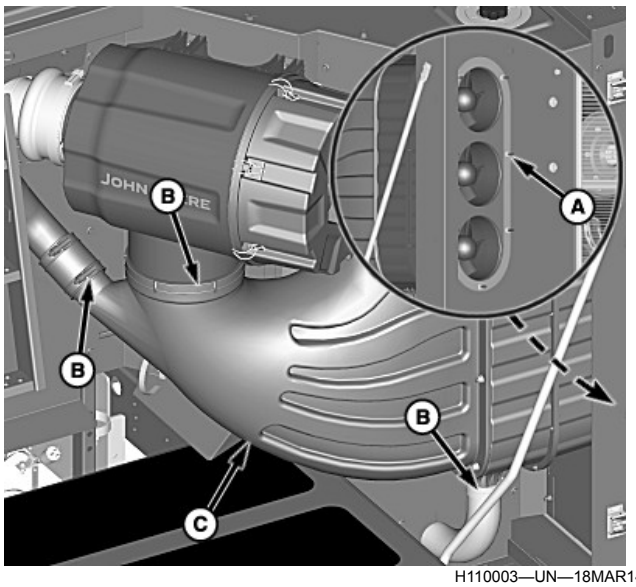
3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).



H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

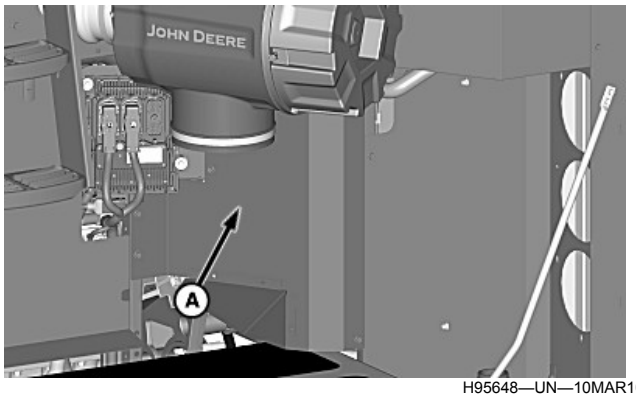
5. Pull latches (A) and open rotary screen door (B).



H110003—UN—18MAR14

A—Nut (7 used)
B—Clamps
C—Air Duct

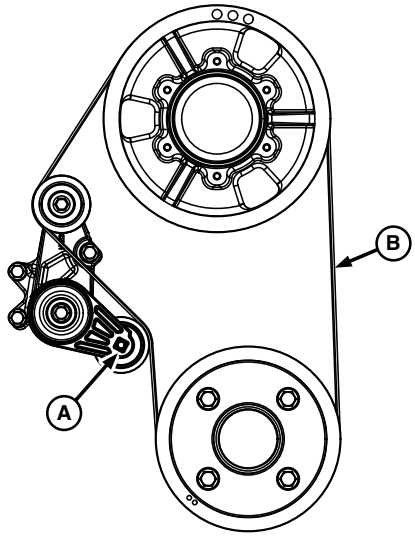
6. Remove nuts (A) and loosen hose clamps (B).
7. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

8. Remove shield (A).

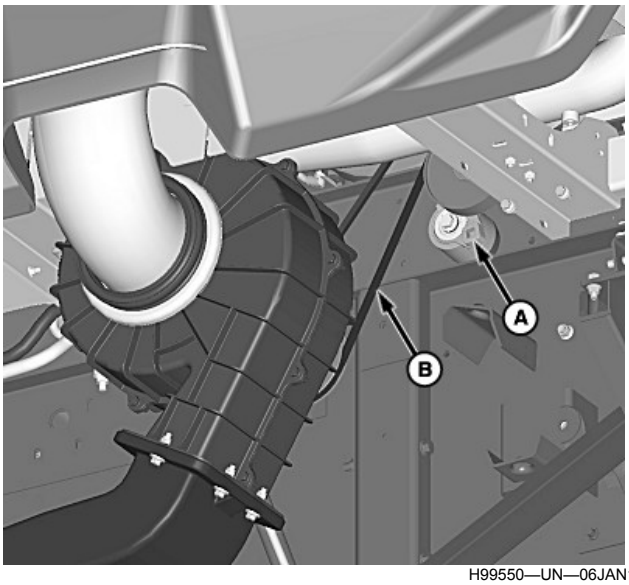


H99551—UN—06JAN11

Fan Belt Routing

A—Tensioner Arm
B—Fan Belt

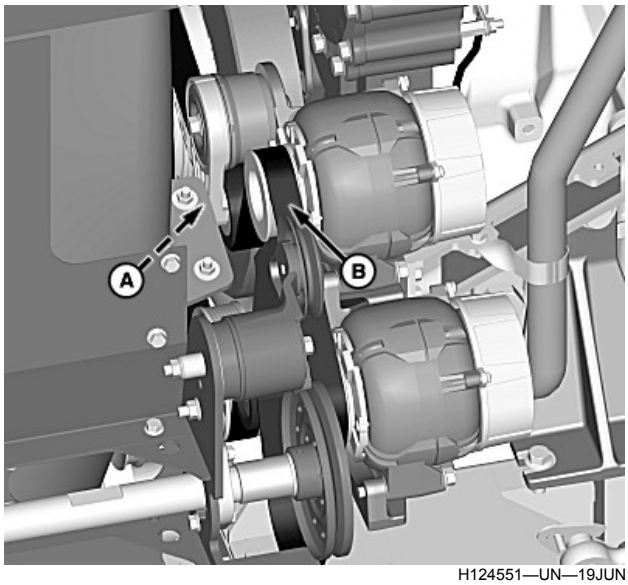
9. Use breaker bar to relieve belt tension from the tensioner arm (A).
10. Remove belt (B) and work belt over fan blades to remove.



H99550—UN—06JAN11

A—Tensioner Arm
B—Vacuum Fan Drive Belt

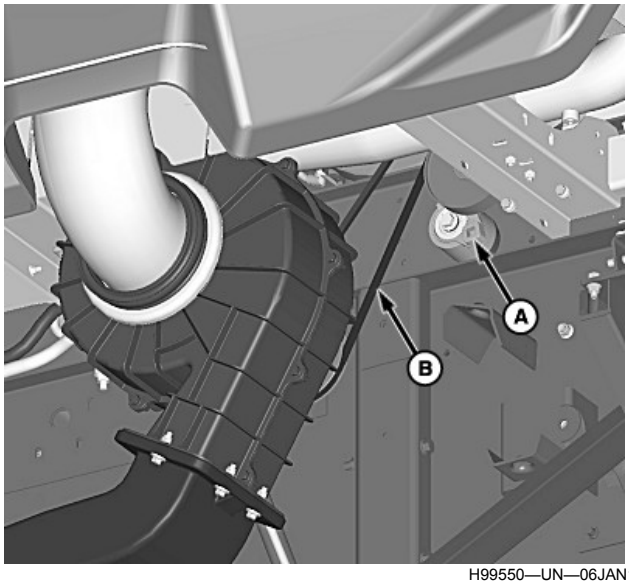
11. Use breaker bar to relieve belt tension from the tensioner arm (A).
12. Remove the vacuum fan drive belt (B) located below radiator.



H124551—UN—19JUN18

A—Tensioner Arm
B—Belt

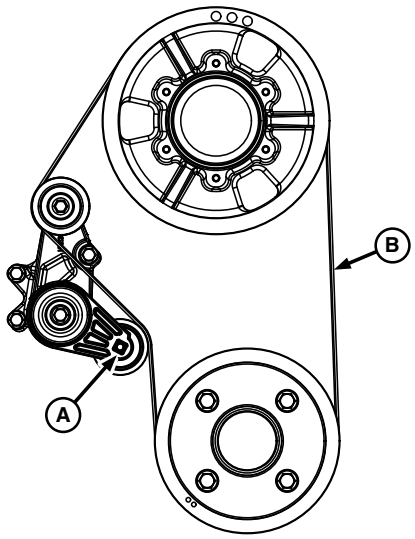
13. Use breaker bar to relieve belt tension from the tensioner arm (A).
14. Remove belt (B) and work belt over fan blades to remove.
15. Install replacement belt over the fan blades.
16. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.



H99550—UN—06JAN11

A—Tensioner Arm
B—Vacuum Fan Drive Belt

17. Install the vacuum fan drive belt (B).
18. Use breaker bar to relieve tension from the tensioner arm (A) to install belt.

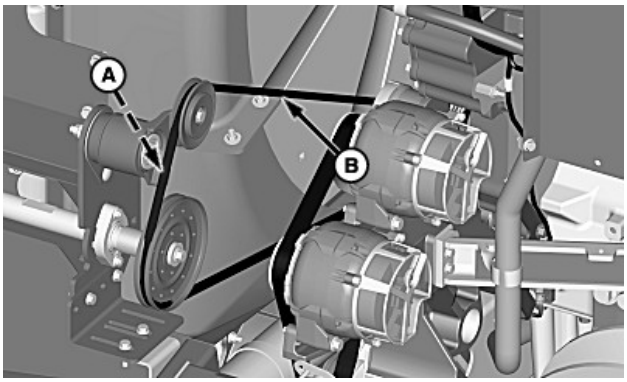


H99551—UN—06JAN11

Fan Belt Routing

A—Tensioner Arm
B—Fan Belt

19. Install belt (B) and work belt over fan blades.
20. Use breaker bar to relieve tension from the tensioner arm (A) to install belt.



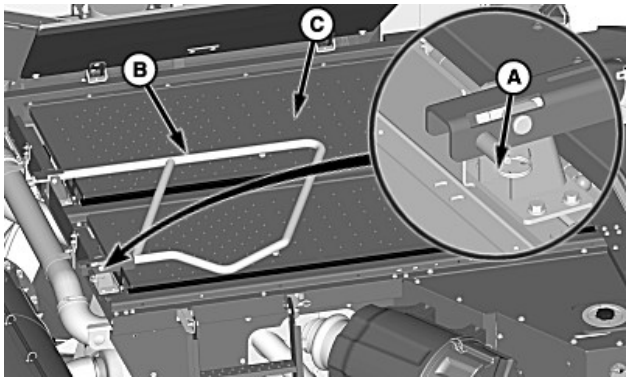
H124543—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

21. Use breaker bar to relieve tension from the tensioner arm (A) to install rotary screen drive belt (B).
22. Install previously removed shields (front side).
23. Close separator access cover and lower handrail.
24. Install previously removed shield (rear side) and air duct.
25. Close and latch the rotary screen door.

OUO6075,00049E0-19-20JUN18

Rotary Screen Drive Belt—Replacing (Final Tier 4/Stage V)

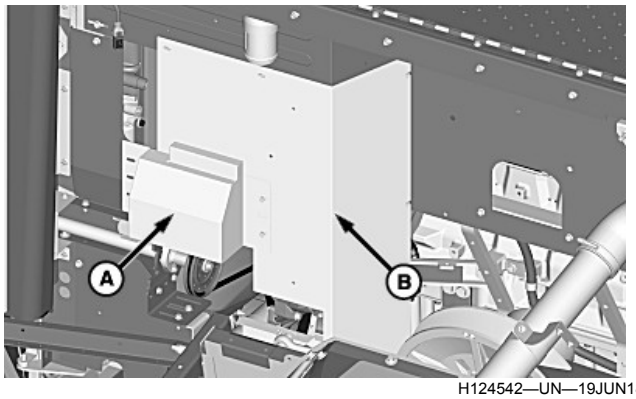


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

⚠ CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

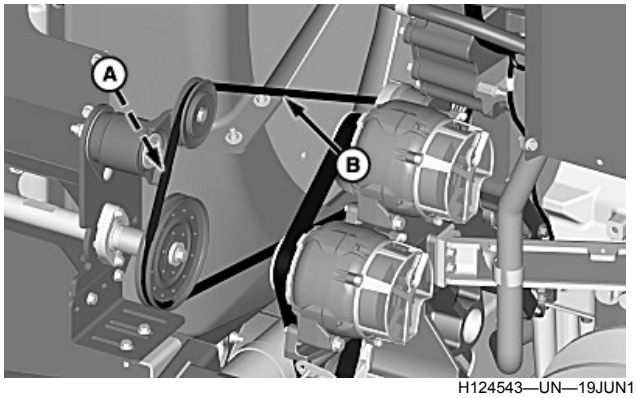


H124542—UN—19JUN18

Front Side Of Engine

A—Shield
B—Shield

2. Remove shield (A) and shield (B).



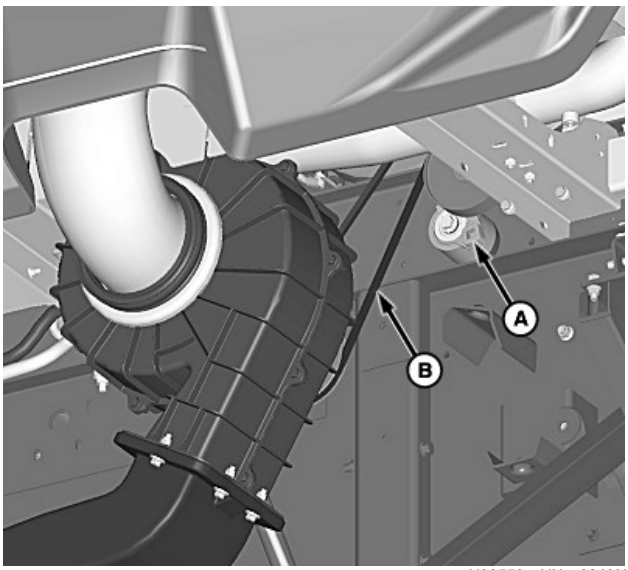
H124543—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).
5. Use breaker bar to relieve tension from the tensioner arm to install replacement rotary screen drive belt.
6. Install previously removed shields, close separator access cover, and lower handrail.

OUO6075,00049E1-19-20JUN18

Vacuum Fan Drive Belt—Replacing (Final Tier 4/Stage V)



H99550—UN—06JAN11

A—Tensioner Arm
B—Vacuum Fan Drive Belt

CAUTION: Shut OFF engine, set park brake and remove key.

Use breaker bar to relieve belt tension from the tensioner arm (A).

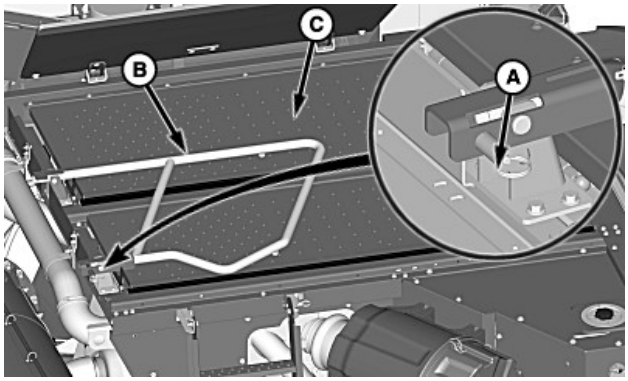
Remove the vacuum fan drive belt (B) located below the radiator.

Install the replacement vacuum fan drive belt.

Use breaker bar to relieve tension from the tensioner arm to install belt.

OUO6075,000481B-19-14NOV17

Air Compressor Belt (If Equipped)—Replacing (Final Tier 4/Stage V)

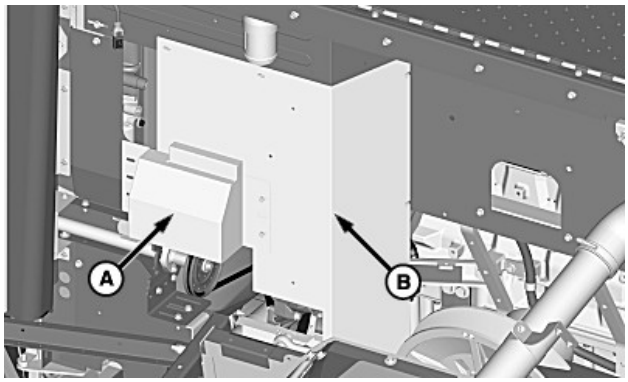


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

CAUTION: Shut OFF engine, set park brake and remove key.

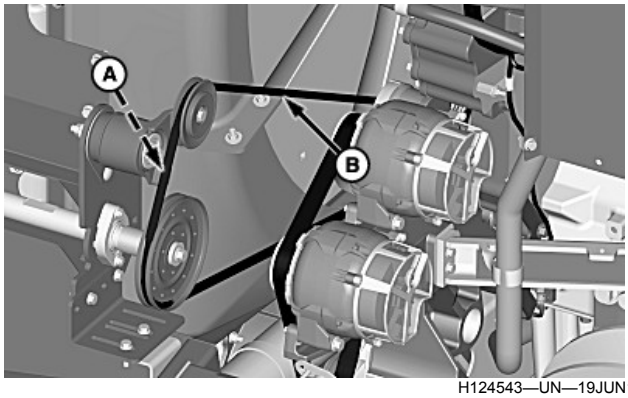
1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).



H124542—UN—19JUN18
Front Side Of Engine

A—Shield
B—Shield

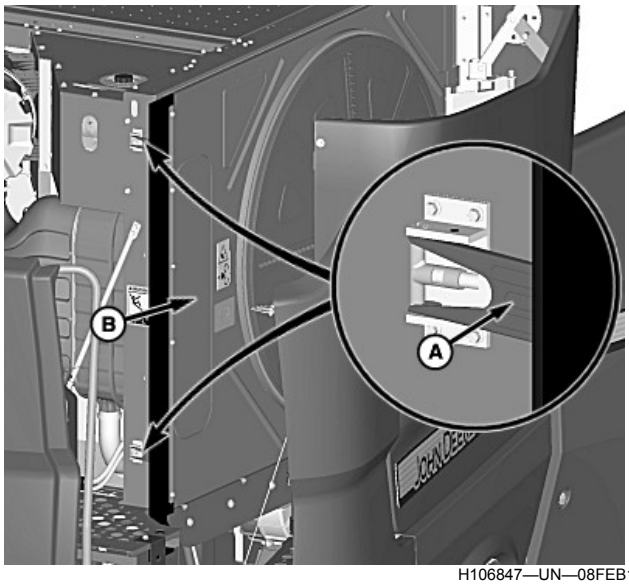
2. Remove shield (A) and shield (B).



H124543—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

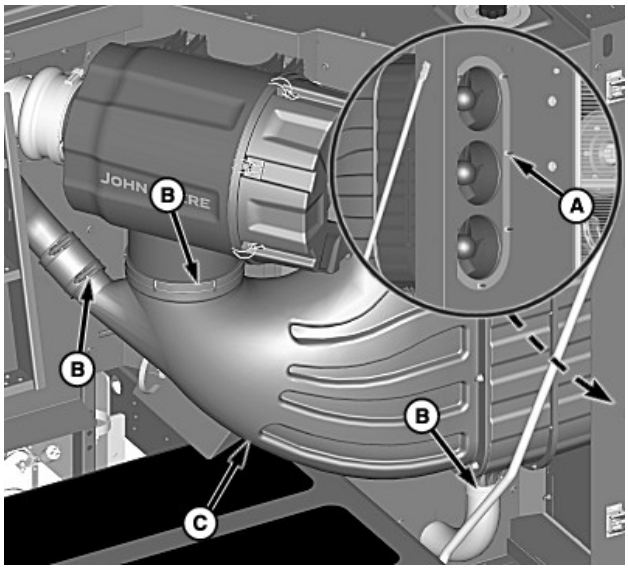
3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).



H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

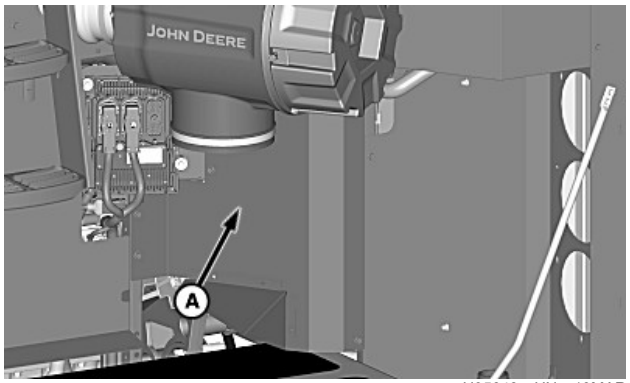
5. Pull latches (A) and open rotary screen door (B).



H110003—UN—18MAR14

A—Nut (7 used)
B—Clamps
C—Air Duct

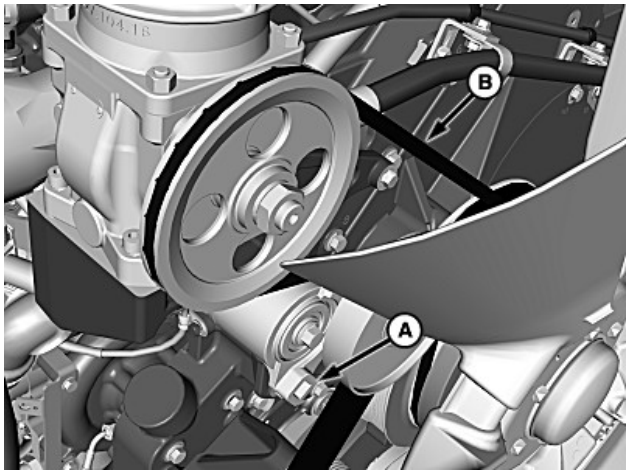
6. Remove nuts (A) and loosen hose clamps (B).
7. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

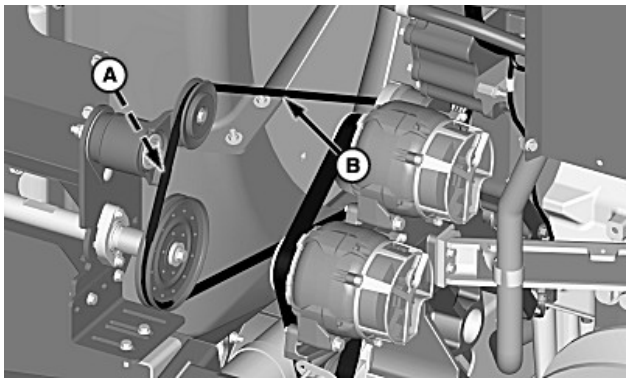
8. Remove shield (A).



H113078—UN—25FEB15

A—Tensioner Arm
B—Belt

9. Use breaker bar to relieve belt tension from the tensioner arm (A).
10. Remove belt (B) and work belt over fan blades to remove.
11. Install replacement belt over the fan blades.
12. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.



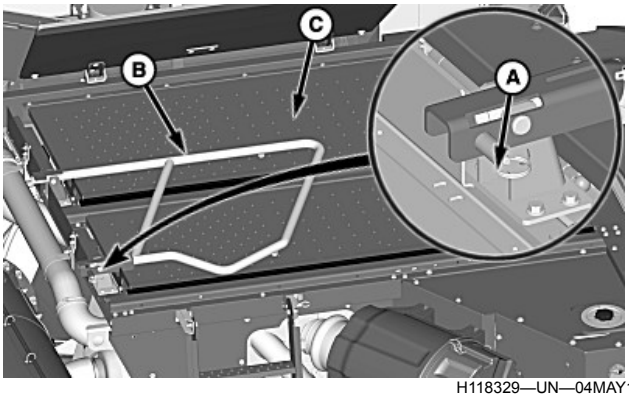
H124543—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

13. Use breaker bar to relieve tension from the tensioner arm (A) to install rotary screen drive belt (B).
14. Install previously removed shields (front side).
15. Close separator access cover and lower handrail.
16. Install previously removed shield (rear side) and air duct.
17. Close and latch the rotary screen door.

OUO6075,00049E2-19-20JUN18

Fan Drive Belt—Replacing (Final Tier 4/ Stage V)

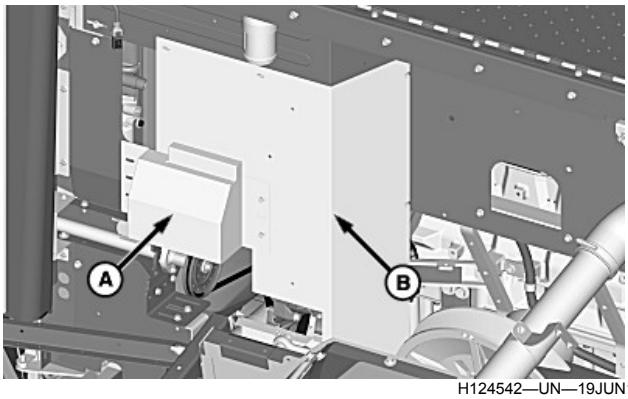


H118329—UN—04MAY16

A—Lockout Pin
B—Handrail
C—Separator Access Cover

CAUTION: Shut OFF engine, set park brake and remove key.

1. Pull lockout pin (A) and rotate handrail (B) up until handrail locks into place to open separator access cover (C).

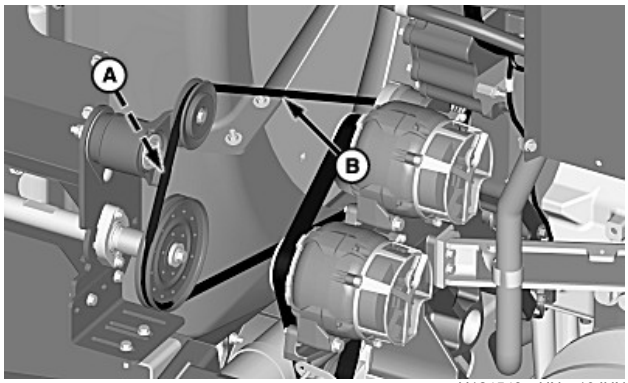


H124542—UN—19JUN18

Front Side Of Engine

A—Shield
B—Shield

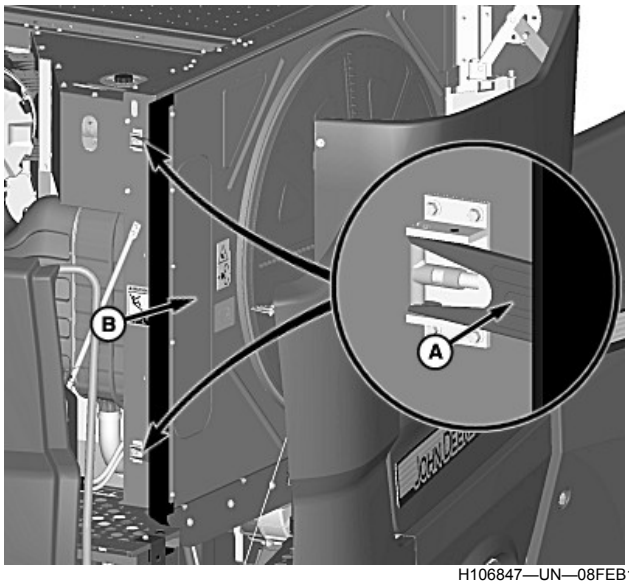
2. Remove shield (A) and shield (B).



H124543—UN—19JUN18

A—Tensioner Arm
B—Rotary Screen Drive Belt

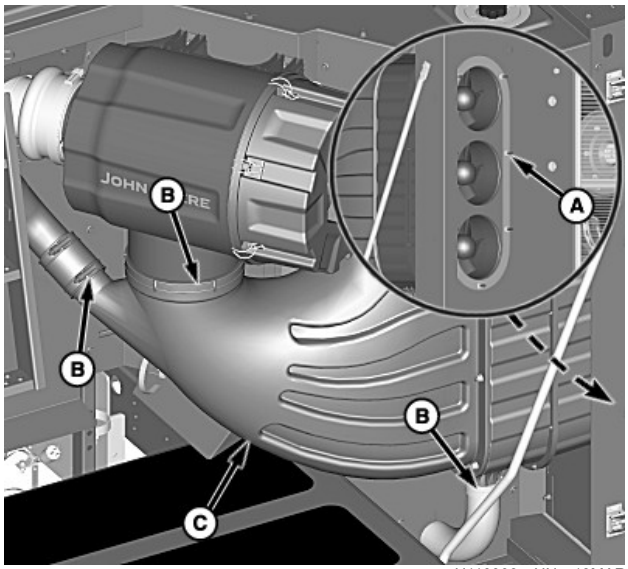
3. Use breaker bar to relieve belt tension from the tensioner arm (A).
4. Remove rotary screen drive belt (B).



H106847—UN—08FEB13

A—Latches
B—Rotary Screen Door

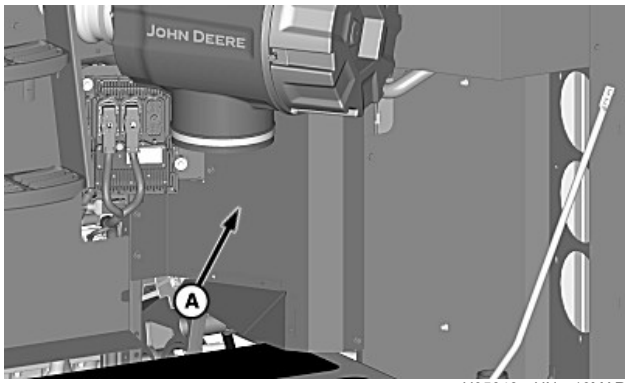
5. Pull latches (A) and open rotary screen door (B).



H110003—UN—18MAR14

A—Nuts (7 used)
B—Clamps
C—Air Duct

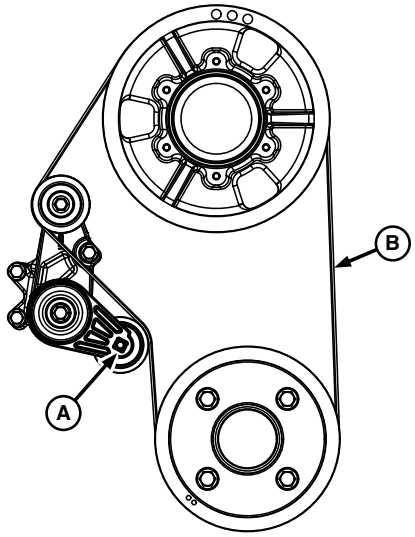
6. Remove nuts (A) and loosen hose clamps (B).
7. Lay air duct (C) out of the way.



H95648—UN—10MAR10

A—Shield

8. Remove shield (A).



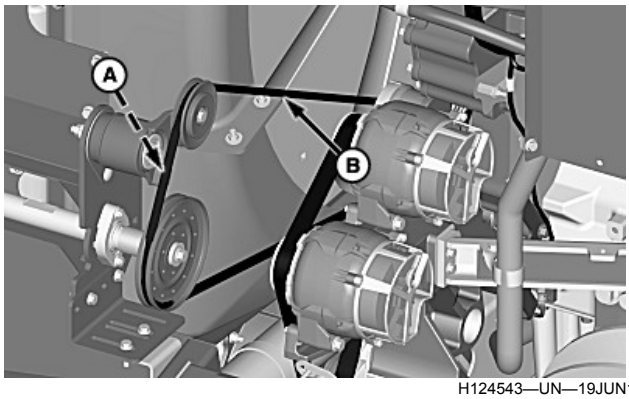
H99551—UN—06JAN11

Fan Belt Routing

A—Tensioner Arm
B—Fan Belt

NOTE: Air compressor belt must be removed to replace fan belt. See Air Compressor Belt (If Equipped)—Replacing (Final Tier 4/Stage V) for further information.

9. Use breaker bar to relieve belt tension from the tensioner arm (A).
10. Remove belt (B) and work belt over fan blades to remove.
11. Install replacement belt over the fan blades.
12. Use breaker bar to relieve tension from the tensioner arm to install replacement belt.



H124543—UN—19JUN18

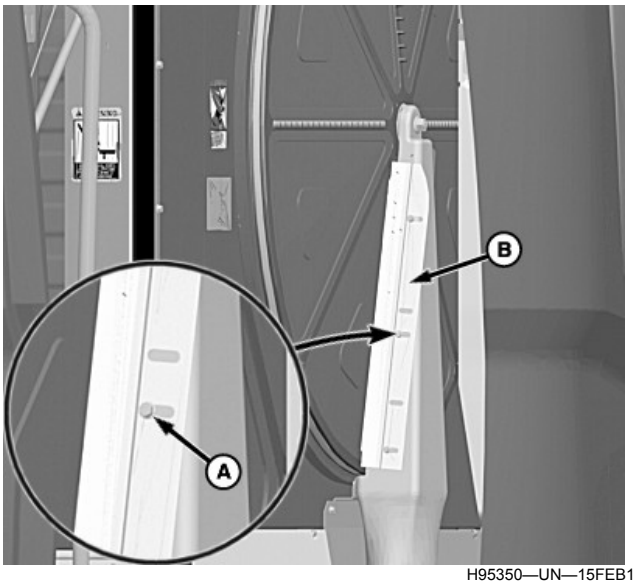
A—Tensioner Arm
B—Rotary Screen Drive Belt

13. Use breaker bar to relieve tension from the tensioner arm (A) to install rotary screen drive belt (B).
14. Install previously removed shields (front side).
15. Close separator access cover and lower handrail.

16. Install previously removed shield (rear side) and air duct.
17. Close and latch the rotary screen door.

OUO6075,00049E3-19-20JUN18

Rotary Screen Brush—Adjustment



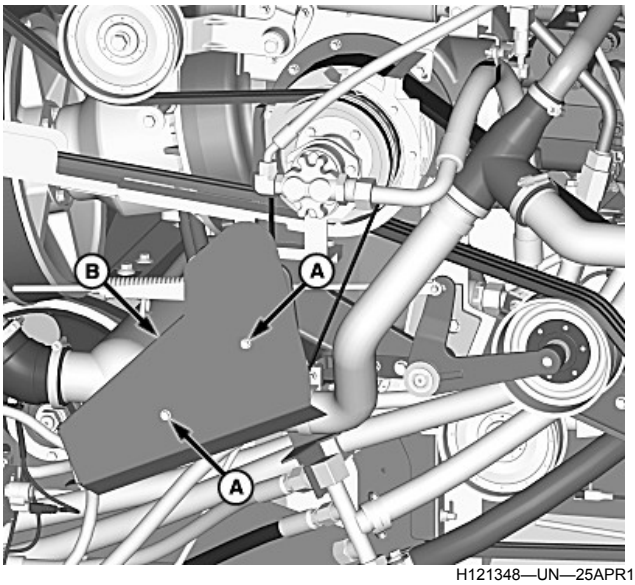
H95350—UN—15FEB10

A—Cap Screws
B—Brush

Loosen cap screws (A) and adjust brush (B) as needed to remove crop debris.

OUO6075,00005A0-19-16FEB10

Engine Debris Management Belt—Replacing (Final Tier 4/Stage V)

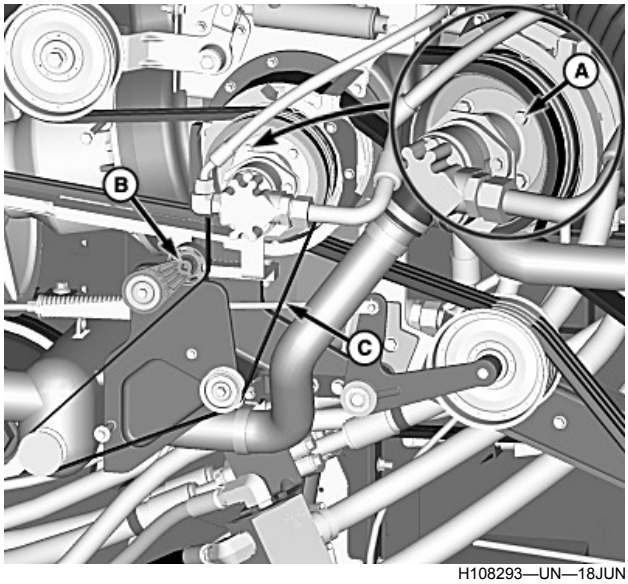


H121348—UN—25APR17

A—Cap Screws
B—Shield

CAUTION: Shut OFF engine, set park brake and remove key.

Remove cap screws (A) and shield (B).



H108293—UN—18JUN13

A—Cap Screws
B—Tensioner Arm
C—Engine Debris Management Belt

Remove cap screws (A) and support pump assembly out of the way.

Remove belt and install replacement belt in reverse order.

Align pump assembly with sheave and tighten cap screws to specification.

Specification

Cap Screws—Torque. . . . . 80 N·m (59 lb·ft)

Use breaker bar to relieve tension from the tensioner arm (B) to install the engine debris management belt (C).

Install shield and retain with cap screws.

OUO6075,000481E-19-14NOV17

Feeder House

Symptom	Problem	Solution
Uneven or bunched feeding of crop to rotor.	Header auger too high.	Adjust auger down and back. See header operator's manual.
	Buildup of grain on cutterbar.	Lower reel and set fore-and aft position as close as possible to cutterbar and auger. See platform operator's manual.
	Drum arms bind up to sidesheet on one side.	Loosen and tension chain again. Straighten or replace bent parts.
	Feeder conveyor chain too tight and holds drum up.	Adjust conveyor chain to correct tension.
	Header drive belt slipping.	Spring-loaded idler must be free and tight against belt.
	Auger too far ahead of stripper.	Adjust auger back to stripper. See header operator's manual.
	Feeder conveyor drive chain not on correct sprocket.	Place chain on correct sprocket.
	Feeder conveyor slats bowed up.	Straighten or replace bent slats.
	Dirt and sap buildup on feeder house bottom.	Clean bottom.
	Too great a distance between platform auger and feeder house front drum.	Add links to feeder house chain.
Header or Reel Will Not Lift Correctly	Air in hydraulic system.	Tighten clamps on leaking lines or hoses. Bleed reel lift system. See Platform operator's manual.

OUO6075,0000B5B-19-02MAR11

Separator

Symptom	Problem	Solution
Slugging or Overloading of Separator.	Single tine separator variable drive belt is slipping at slow speed.	Adjust sheave gap.
	Separator speed too slow for crop.	Increase separator speed.
Backfeeding of Feed Accelerator.	Separator speed too slow for crop.	Increase separator speed.
	Accelerator speed in slow speed position.	Change accelerator speed to high-speed position.

Symptom	Problem	Solution
Grain Not Threshed.	Separator speed too slow for crop.	Increase separator speed in increments of 50—100 rpm. After separator speed adjustment check grain quality.
	Concave clearance too wide.	Tighten threshing clearance in increments of 5—10 mm. After threshing clearance adjustment check grain quality.
	Concave clearance not even from front to rear.	Adjust to specifications. See Concave Leveling in Separator section for further information.
	Not enough material entering combine for proper threshing.	Increase ground speed.
Too Much Cracked Grain in Tank.	Separator speed too fast for crop.	Decrease separator speed in increments of 10 rpm.
	Concave clearance too tight.	Open threshing clearance in 2 mm increments.
	Feed beater speed too fast for crop.	Decrease feed accelerator speed by switching to low speed.
	Excessive grain in tailings.	Open sieve in increments of 2 mm to reduce tailings.
	Not enough material entering machine.	Increase ground speed.
	Active tailings system (if equipped) concave position incorrectly set.	Set active tailings system concave position. See Crop Settings section for further information.
Separator Grain Loss	Separator overloaded due to incomplete threshing or late threshing at concave.	Reduce separator to concave spacing and/or increase separator speed to increase threshing action.
	Separator covers installed.	See Crop Settings section for further information.
		Remove covers to increase open area while maintaining even shoe loading.
	Separator top cover vanes (if equipped) are in the advanced position.	Move vanes to standard position. See Residue Management Application Help or Operator's Station Help for further information.
Dirty Grain Tank (Unthreshed Heads).	Separator not threshing enough.	Increase separator speed in increments of 50—100 rpm.

Symptom	Problem	Solution
		Decrease threshing clearance in increments of 2 mm.
		Check concave level. See Concave Leveling in Separator section for further information.
		Active tailings system machines: install concave covers in the first concave.
		Non-active tailings system machines: install concave covers in the second concave.
		Add concave interrupters to the first concave.
	Active tailings system (if equipped) concave position incorrectly set.	Verify that active tailings system concave position is correct for crop harvested.
		Check active tailings system concave position for correct zero position. See Tailings System Wear Strips and Rasp Bars—Adjusting in Separator section for further information.
Dirty Grain Tank (Mostly Chaff).	Fan speed too slow.	Increase fan speed.
	Residue system crop diverter door in incorrect position.	Verify that door position matches harvested crop.
Dirty Grain Tank (Small Pieces of Cob).	Broken cob pieces in grain tank.	*NOTE: Spacers should be used in corn and soybeans only. Remove spacers for all other crops.*
		Install separator grate spacers.
	Check threshing clearance. If clearance is less than bare cob diameter, rotor may break up cob.	*NOTE: For active tailings system machine spacers should not be installed in fourth grate.*
		Install separator grate spacers.
Damaged chaffer/sieve elements.	Crop diverter door in incorrect position.	Verify that door position matches harvested crop.
Loss of Grain Over Cleaning Shoe.	Incorrect chaffer/sieve clearance.	Check and calibrate chaffer/sieve clearance.
	Incorrect distribution of chaff/grain on cleaning shoe.	Adjust separator grate blanks and auger bed dividers as required. See Power Shutdown Procedure in Crop Settings section for further information.

Symptom	Problem	Solution
VisionTrak™ Performance Monitor not reading.	Cleaning shoe loss increases at low feed rate.	Reduce fan speed.
	Cleaning shoe loss increases at high feed rate.	Open chaffer.
		Increase fan speed.
	Sensor not reading.	Check crop sensitivity settings.
		Check that sensors are connected.
		Check that sensors are not block by material.
Undesirable Straw Quality.	Excessive material handling.	Decrease rotor speed and increase threshing clearance to increase straw quality and balance threshing performance.
		Decrease material handling speed (feeder house and feed accelerator) to balance straw quality and material handling performance.
		Advance separator top cover vanes (if equipped). See Residue Management Application Help or Operator's Station Help for further information.

OUO6075,00046A1-19-21MAR17

Hydrostatic Ground Drive

Symptom	Problem	Solution
Speed Range Selector Will Not Go in Reverse (Non-ProDrive™ Machines).	Bent or broken parts in control linkage.	Repair or replace as required.
Linkages Binding (Non-ProDrive™ Machines).	Frozen or worn ball joints on the control cable.	Lubricate or replace.
	Bell crank or pivots binding.	Lubricate or replace.
	Control cable kinked or frozen.	Replace if needed.
System Overheats.	Oil cooler or radiator plugged.	Blow air through core and clean.
	Lack of charge oil flow.	See your John Deere dealer.
	Engine fan belt slipping or broken.	Check for worn or broken belt.

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ProDrive is a trademark of Deere & Company

Symptom	Problem	Solution
	Plugged oil filter.	Change filter.
	Exceeding relief valve pressure.	Shift to lower gear.
	Relief valve stuck closed.	See your John Deere dealer.
	By-pass valve fails to close.	See your John Deere dealer.
High Oil Loss.	Loose connections or leaking hydraulic lines, hoses, or O-rings.	Tighten connections or replace damaged lines, hoses, or O-rings.
	Oil leaking into the main engine gear case (Non-ProDrive™ Machines).	Replace hydrostatic pump shaft seal.
	Oil leaking into the main engine gear case (ProDrive™ Machines).	Replace hydrostatic motor shaft seal or park brake seals in transmission, see your John Deere dealer.
	Worn or damaged triple pump seals (Non-ProDrive™ Machines).	Check triple pump cavities between the valve stack pump and steering pump. Both pump cavities should contain no oil. If oil is found between pump cavity sections, replace pump shaft seals on the valve stack pump and steering pump before replacing both pumps.
	Worn or damaged quadruple pump seals (ProDrive™ Machines).	Check quadruple pump cavities between the valve stack pump and ProDrive™ lube supply pump. Both pump cavities should contain no oil. If oil is found between pump cavities sections, replace pump shaft seals on the valve stack pump and ProDrive™ lube pump before replacing both pumps.
Machine Will Not Move Forward or Reverse.	Transmission out of gear (Non-ProDrive™ Machines).	Shift transmission.
	System detects ground drive faults (ProDrive™ Machines).	See your John Deere dealer.
	Low on oil.	Check for leaks and correct. Fill reservoir.
	Air leak in system.	Tighten connections.
	Control linkages broken or loose (Non-ProDrive™ Machines).	Tighten loose linkages or replace as needed.
	Lack of charge flow or charge pressure.	See your John Deere dealer.
	Plugged filter.	Change filter.

Symptom	Problem	Solution
	Exceeding maximum operating pressure setting (Non-ProDrive™ Machines).	Shift to lower gear.
	Exceeding maximum operating pressure setting (ProDrive™ Machines).	See your John Deere dealer.
	Drive system unable to build up pressure.	See your John Deere dealer.
	Relief valve open.	See your John Deere dealer.
Ground Travel Speed Erratic.	Low oil.	Check for leaks and correct. Fill reservoir.
	Plugged filter.	Change hydrostatic charge filter.
	Exceeding maximum operating pressure setting (Non-ProDrive™ Machines).	Shift to lower gear or engage four-wheel drive.
	Exceeding maximum operating pressure setting (ProDrive™ Machines).	See your John Deere dealer.
	Multi-function lever creeps toward neutral.	See your John Deere dealer.
	System unable to keep charge pressure.	See your John Deere dealer.
Machine Will Not Stop When Speed Range Selector is in Neutral Position (Non-ProDrive™ Machines).	Control cable out of adjustment.	Adjust cable for neutral position.
Lack of Power or Lost Power. Machine Not Responding to Speed Range Selector.	Low on oil.	Check for leaks and correct. Fill reservoir.
	Plugged filter.	Change hydrostatic charge filter.
	Lack of charge flow or charge pressure.	See your John Deere dealer.
	Dirty fuel filter.	Replace fuel filter.
	Water in separator bowl.	Drain water from separator bowl.
	Drive system unable to keep or build up pressure.	See your John Deere dealer.
	System detects ground drive faults.	See your John Deere dealer.

OUO6075,00046A2-19-28MAR17

Four-Wheel Drive (Optional)

Symptom	Problem	Solution
Machine Will Not Move When Four-Wheel Drive Is Engaged.	One or both rear wheels in spin-out condition.	Increase hydrostatic pump flow by moving the multi-function lever forward.
	Bad electrical control switch on console.	See your John Deere dealer
	Bad solenoid valve on the control valve.	See your John Deere dealer.
	Spool will not move in the control valve.	See your John Deere dealer.
Machine Will Not Move When Four-Wheel Drive Is Disengaged.	Faulty line or connection between the main system and rear wheel drive control valve.	Repair or replace parts as needed.
Four-Wheel Drive Will Not Disengage.	Bad electrical control switch on console.	See your John Deere dealer
	Bad solenoid valve on the control valve.	See your John Deere dealer.
	Spool will not work in the control valve.	See your John Deere dealer.
Rear Wheels Wander During Transport Speeds.	Toe-in out of adjustment.	Adjust toe-in.

OUO6075,000457A-19-10JAN17

Steering

Symptom	Problem	Solution
Rear Wheels Wander During Transport Speeds.	Toe-in out of adjustment.	Adjust toe-in.
Steering Arms Do Not Contact Stops at Full Turns.	Steering cylinder out of adjustment.	Adjust cylinder.
Hard Steering.	Low oil level in the engine gear case reservoir.	Add oil.

OUO6075,00046F0-19-29MAR17

Brakes

Symptom	Problem	Solution
Spongy Brake Pedal Pressure.	Low brake fluid level (Non ProDrive Machines).	Add brake fluid.
	Brake pedal push rods out of adjustment (ProDrive Machines).	Adjust jam nut on brake pedal push rods.

Symptom	Problem	Solution
	Air in system.	See your John Deere dealer.
Loss of Braking Power.	Glazed linings (Non ProDrive Machines).	See your John Deere dealer.
	Inadequate pressure (ProDrive Machines).	See your John Deere dealer.
	Worn linings.	See your John Deere dealer.
Parking Brake Not Holding.	Park brake not adjusted properly (Non ProDrive Machines).	Adjust park brake.
	Lack of spring force (ProDrive Machines).	See your John Deere dealer.
	Glazed linings (Non ProDrive Machines).	See your John Deere dealer.
	Worn brake linings (ProDrive Machines).	See your John Deere dealer.
	Machine was manual overridden to move machine (ProDrive Machines).	Remove cap screws from transmission.

OUO6075,00000F7-19-29APR08

Engine

Symptom	Problem	Solution
Engine Will Not Crank	Weak battery	Charge or replace battery.
	Corroded or loose battery connections	Clean battery terminals and connections.
	Defective main switch or start safety switch	Repair switch as required.
	Starter solenoid defective	Replace solenoid.
	Starter defective	Replace starter.
Engine Hard to Start or Will Not Start	Starting system problem	Starting system not strong enough to start engine
		Perform steps found in Engine Will Not Crank.
	Poor fuel quality	Drain fuel and replace with quality fuel of the proper grade.
	Slow cranking speed	Check for problem in the charging/ starting system.

Symptom	Problem	Solution
	Too high viscosity crankcase oil	Drain crankcase oil and replace with correct viscosity oil.
	Electronic control system problem or basic engine problem	See your John Deere dealer.
Engine Misfiring or Runs Irregularly	Poor fuel quality	Drain fuel and replace with quality fuel of the proper grade.
	Electronic control system problem or basic engine problem	See your John Deere dealer.
Lack of Engine Power	Poor fuel quality	Drain fuel and replace with quality fuel of the proper grade.
	Plugged fuel filter	Replace fuel filters.
	Engine overloaded	Reduce engine load.
	Improper crankcase oil	Drain crankcase oil and replace with correct viscosity oil.
	Electronic control system problem or basic engine problem	See your John Deere dealer.
	Engine is in derate because of an active diagnostic trouble code	See your John Deere dealer.
	Engine is in derate because exhaust filter cleaning is required.	Engage exhaust filter auto cleaning mode and request a manual exhaust filter cleaning.
Engine Emits Black or Gray Smoke	Engine overloaded	Reduce engine load.
	Improper type of fuel.	Use proper fuel.
	Air cleaner restricted or dirty	Replace air cleaner element as required.
	Defective muffler/exhaust piping (causing backpressure)	Replace muffler or defective piping.
	Electronic control system problem or basic engine problem	See your John Deere dealer.
	Fuel injectors dirty.	See your John Deere dealer.
	High-pressure fuel pump out of time.	See your John Deere dealer.
	Turbocharger not functioning.	See your John Deere dealer.
	Exhaust filter is cracked or damaged.	See your John Deere dealer.

Symptom	Problem	Solution
Engine Emits White Smoke	Engine compression too low	Determine cause of low compression and repair as required. See your John Deere dealer.
	Improper type of fuel.	Use proper fuel.
	Low engine temperature.	Warm up engine to normal operating temperature.
	Defective thermostat(s)	Test thermostats; replace thermostats as required.
	Coolant entering combustion chamber (failed cylinder head gasket or cracked cylinder head)	Repair or replace as required. See your John Deere dealer.
	Electronic control system problem or basic engine problem	See your John Deere dealer.
	Defective fuel injectors.	See your John Deere dealer.
	High-pressure fuel pump out of time.	See your John Deere dealer.
Engine Idles Poorly	Poor fuel quality	Drain fuel and replace with quality fuel of the proper grade.
	Air leak on suction side of air intake system.	Check hose and pipe connections for tightness; repair as required.
	Electronic control system problem or basic engine problem	See your John Deere dealer.
Excessive Fuel Consumption	Poor fuel quality	Drain fuel and replace with quality fuel of the proper grade.
	Engine overloaded	Reduce engine load.
	Air cleaner restricted or dirty	Replace air cleaner element as required.
	Compression too low	Determine cause of low compression and repair as required.
	Leaks in fuel supply system	Locate source of leak and repair as required.
	Improper type of fuel.	Use proper type of fuel.
	Poor fuel quality	Drain fuel and replace with quality fuel of the proper grade.
	Improper valve clearance.	See your John Deere dealer.
	Fuel injectors defective.	See your John Deere dealer.

Symptom	Problem	Solution
	High-pressure fuel pump out of time.	See your John Deere dealer.
	Improper turbocharger operation.	Inspect turbocharger. See your John Deere dealer.
	Low engine temperature.	Check thermostats.
Fuel in Oil	Cracked cylinder head	Locate crack, repair/replace components as required. See your John Deere dealer.
	Cracked or worn electronic unit injector O-ring	Remove suspected electronic unit injector and replace O-ring as required. See your John Deere dealer.
Low Fuel Pressure	Plugged fuel filter	Replace fuel filter.
	Restricted fuel line	Locate restriction, repair as required.
	Faulty fuel transfer pump	Remove fuel transfer pump; repair/ replace pump as required. See your John Deere dealer.
Fuel Aeration	Electronic unit injector hold-down clamp loose	Tighten hold-down clamp cap screw to proper torque. See your John Deere dealer.
	Cracked or worn electronic unit injector O-ring	Remove suspected electronic unit injector and replace O-ring as required. See your John Deere dealer.
Low Oil Pressure	Low crankcase oil level	Fill crankcase to proper oil level.
	Crankcase oil level too high	Fill crankcase to proper oil level.
	Faulty pressure sensor	Replace sensor. See your John Deere dealer.
	Clogged oil cooler or filter	Remove and inspect oil cooler. See your John Deere dealer.
	Excessive oil temperature	Remove and inspect oil cooler. See your John Deere dealer.
	Defective oil pump	Remove and inspect oil pump. See your John Deere dealer.
	Incorrect oil	Drain crankcase and refill with correct oil.
	Oil pressure regulating valve failure	Remove and inspect oil pressure regulating valve. See your John Deere dealer.

Symptom	Problem	Solution
	Broken piston spray nozzle	Replace piston spray nozzle. See your John Deere dealer.
	Clogged oil pump screen or cracked pick-up tube	Remove oil pan and clean screen/ replace pick-up tube.
	Excessive main or connecting rod bearing clearance	Determine bearing clearance. See your John Deere dealer.
High Oil Pressure	Improper oil classification	Drain crankcase and refill with correct oil.
	Faulty pressure sensor	Replace sensor. See your John Deere dealer.
	Oil pressure regulating valve bushing loose (wanders)	Remove and inspect oil pressure regulating valve. See your John Deere dealer.
	Improperly operating regulating valve	Remove and inspect oil pressure regulating valve. See your John Deere dealer.
	Plugged piston spray nozzle	Replace piston spray nozzle. See your John Deere dealer.
	Stuck or damaged filter bypass valve	Remove and inspect filter bypass valve. See your John Deere dealer.
	Stuck or damaged oil cooler bypass valve	Remove and inspect oil cooler bypass valve. See your John Deere dealer.
Excessive Oil Consumption	Too low viscosity crankcase oil	Drain crankcase and refill with correct viscosity oil.
	Crankcase oil level too high	Drain oil until oil level is correct.
	External oil leak(s)	Determine source of oil leak(s) and repair as required.
	Oil control rings not seated	See your John Deere dealer.
	Oil control rings worn or broken	Replace piston rings. See your John Deere dealer.
	Scored cylinder liners or pistons	Remove and inspect cylinders and liners; replace as required. See your John Deere dealer.
	Worn valve guides or stems	Inspect and measure valve stems and valve guides; repair as required. See your John Deere dealer.
	Excessive oil pressure	See High Oil Pressure earlier in this section.

Symptom	Problem	Solution
	Piston ring grooves excessively worn	Remove and inspect pistons. See your John Deere dealer.
	Piston rings sticking in ring grooves	Remove and inspect pistons. See your John Deere dealer.
	Insufficient piston ring tension	Remove and inspect pistons. See your John Deere dealer.
	Piston ring gaps not staggered	Remove and inspect pistons. See your John Deere dealer.
	Front and/or rear crankshaft oil seal faulty	Replace oil seals. See your John Deere dealer.
Abnormal Engine Noise [1]	Worn main or connecting rod bearings	Determine bearing clearance. See your John Deere dealer.
	Excessive crankshaft end play	Check crankshaft end play. See your John Deere dealer.
	Loose main bearing caps	Check bearing clearance; replace bearings and bearing cap screws as required. See your John Deere dealer.
	Worn connecting rod bushings and piston pins	Inspect piston pins and bushings. See your John Deere dealer.
	Scored pistons	Inspect pistons. See your John Deere dealer.
	Worn timing gears or excess backlash	Check timing gear backlash. See your John Deere dealer.
	Excessive valve clearance	Check and adjust valve clearance. See your John Deere dealer.
	Worn camshaft lobes	Replace camshaft. See your John Deere dealer.
	Worn rocker arm shaft(s)	Replace rocker arm shafts. See your John Deere dealer.
	Insufficient engine lubrication	See Lubrication System Troubleshooting, later in this section.
	Turbocharger noise	See Air Intake System Troubleshooting, later in this section.

[1] *NOTE: Variable geometry turbocharger recycles after starting engine, causing a momentary revving sound in engine. This is normal. Do not confuse whine heard during run down with noise which indicates a bearing failure.*

Symptom	Problem	Solution
Turbocharger "Whistles"	Air leak in intake manifold.	Check intake manifold gasket and manifold; repair as required. See your John Deere dealer.
Turbocharger Noise or Vibration [1]	Bearings not lubricated (insufficient oil pressure)	Determine cause of lack of lubrication; repair as required. See your John Deere dealer.
	Air leak in engine intake or exhaust manifold	Check intake and exhaust manifold gaskets and manifolds; repair as required. See your John Deere dealer.
	Improper clearance between turbine wheel and turbine housing	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
	Broken blades (or other wheel failures)	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
Oil on Turbocharger Compressor Wheel or in Compressor Housing (Oil Being Pushed or Pulled through Center Housing)	Excessive crankcase pressure.	Determine cause of excessive crankcase pressure; repair as required. See your John Deere dealer.
	Air intake restriction	Determine cause of intake restriction; repair as required. See your John Deere dealer.
	Drain tube restriction	Determine cause of drain tube restriction; repair as required. See your John Deere dealer.
Oil in Intake Manifold or Dripping from Turbocharger Housing	Excessive crankcase pressure	Determine cause of excessive crankcase pressure; repair as required. See your John Deere dealer.
	Air intake restriction	Determine cause of intake restriction; repair as required. See your John Deere dealer.
	Drain tube restriction	Determine cause of drain tube restriction; repair as required. See your John Deere dealer.
	Damaged or worn housing bearings	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
	Unbalance of rotating assembly	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
	Damage to turbine or compressor wheel or blade	Inspect turbocharger; repair/replace as required. See your John Deere dealer.

Symptom	Problem	Solution
	Dirt or carbon build-up on wheel or blade	Check for air intake leaks (post air filter). Inspect turbocharger; repair/replace as required. See your John Deere dealer.
	Bearing wear	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
	Oil starvation or insufficient lubrication	Determine cause of lack of lubrication; repair as required. See your John Deere dealer.
	Shaft seals worn	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
Turbocharger Turbine Wheel Drag	Carbon build-up behind turbine wheel caused by coked oil or combustion deposits	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
	Dirt build-up behind compressor wheel caused by air intake leaks	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
	Bearing seizure or dirty, worn bearings	Inspect turbocharger; repair/replace as required. See your John Deere dealer.
Engine Overheats	Engine overloaded.	Reduce engine load.
	Low coolant level.	Fill cooling system to proper level, check radiator, and hoses for loose connections or leaks.
	Defective surge tank cap	Replace surge tank cap as required.
	Loose or defective fan belt	Replace fan belt as required. Check belt tensioner.
	Low engine oil level.	Check oil level. Add oil as required.
	Cooling system needs flushing.	Flush cooling system.
	Defective thermostat(s)	Remove and check thermostats as required.
	Defective temperature gauge or sender.	Check coolant temperature with thermometer and replace, if necessary.
	Incorrect grade of fuel.	Use correct grade of fuel.
	Radiator core dirty	Clean radiator as required.

Symptom	Problem	Solution
	Too low crankcase oil level	Fill crankcase to proper oil level.
	Damaged cylinder head gasket	Replace cylinder head gasket. See your John Deere dealer.
	Defective coolant pump	Replace coolant pump. See your John Deere dealer.
Coolant in Crankcase	Cylinder head gasket defective	Replace cylinder head gasket. See your John Deere dealer.
	Cylinder head or block cracked	Locate crack, repair/replace components as required.
	Cylinder liner seals leaking	Remove and inspect cylinder liners. See your John Deere dealer.
	Leaking oil cooler	Pressure test oil cooler; repair/replace as required. See your John Deere dealer.
	Defective oil cooler O-rings	Remove and inspect oil cooler O-rings; replace as required. See your John Deere dealer.
	Faulty coolant pump seal; weep hole plugged; coolant leaking through bearing	Replace coolant pump seals. See your John Deere dealer.
Coolant Temperature Below Normal	Defective thermostat(s)	Test thermostats; replace thermostats as required.

OUO6075,0000C98-19-20JUN11

Electrical

Symptom	Problem	Solution
Undercharged system	Excessive electrical load from added accessories.	Remove accessories or install higher output alternator.
	Excessive engine idling.	Increase engine rpm when heavy electrical load is used.
	Poor electrical connections on battery, ground strap, starter, or alternator.	Inspect and clean as necessary.
	Defective battery.	Test batteries.
	Defective alternator.	Test charging system.
Battery used too much water	Cracked battery case.	Check for moisture and replace as necessary.
	Battery charging rate too high.	Test charging system.

Symptom	Problem	Solution
Batteries will not charge	Loose or corroded connections.	Clean and tighten connections.
	Sulfated or worn-out batteries.	See your John Deere dealer.
	Stretched belt or defective belt tensioner.	Adjust belt tension or replace belts.
Starter will not crank	Engine drivelines engaged.	Disengage engine drivelines.
	Loose or corroded connections.	Clean and tighten loose connections.
	Low battery output voltage or discharged battery.	Charge or replace batteries.
	Faulty start circuit relay.	See your John Deere dealer.
	Blown fuse.	Replace fuse.
		Clean battery terminals and connections.
	Defective main switch or start safety switch	Repair switch as required.
	Starter solenoid defective	Replace solenoid.
	Starter defective	Replace starter.
Starter cranks slowly	Low battery output.	Charge batteries.
	Crankcase oil too heavy.	Use proper viscosity oil.
	Loose or corroded connections.	Clean and tighten loose connections.
Entire electrical system does not function	Faulty battery connection.	Clean and tighten connections.
	Sulfated or worn-out batteries.	Replace batteries.
	Blown fuse.	Replace fuse.

OUO6075,0000C99-19-20JUN11

Heater

Symptom	Problem	Solution
Heater Not Blowing Warm Air.	Dirty recirculating filter.	Clean filter.
	No thermostat in water outlet manifold.	See your John Deere dealer.
	Defective thermostat in water outlet manifold.	See your John Deere dealer.

Symptom	Problem	Solution
	Heater temperature control defective.	Replace control.
	Kinked heater hose. Defective heater valve.	Straighten or replace. Replace valve.

OUO6075,0000B24-19-14MAR07

Air Conditioner

Symptom	Problem	Solution
Lack Of Or Insufficient Cooling	Temperature control in OFF position.	Turn Air Conditioner to ON position.
	Compressor belt off or broken.	Replace belt.
	Compressor not functioning (if both the large and small hoses in the left-hand access panel are at the same temperature).	See your John Deere dealer.
	Temperature control is not responding (temperature door broken resulting in warm air).	See your John Deere dealer.
	Low-pressure warning (system lost refrigerant).	See your John Deere dealer.
	High-pressure warning (system is overcharged).	See your John Deere dealer.
Compressor clutch cycles excessively or compressor stays OFF up to 15 minutes.	Evaporator icing.	Adjust controls correctly. See Combine Overview Application Help or Operator's Station Help for further information. Open louvers. Clean filters. Move control to a warmer setting.
Bad smell (foul odor) in cab.	Plugged drain tube. Dirty filters. Dirty cab.	Blow out condensate tube and clean pan under evaporator. Clean filters. Vacuum out cab. Be certain weep valve in the condensate drain tube is installed.

OUO6075,0004572-19-19JAN17

Moisture Sensor (If Equipped)

Symptom	Problem	Solution
Moisture is too high.	Green plant sap or weed seed buildup on moisture sensor plate.	Clean moisture sensor plate.
Moisture is consistently high or low.	Moisture correction needs adjustment.	Change moisture correction.

Symptom	Problem	Solution
Moisture does not change or is constantly low.	Obstructed sensor.	Inspect elevator mount unit and clean as needed.
Moisture reading is inaccurate.	Incorrect crop selected.	Select correct crop.
	Moisture sensor out of adjustment.	Change moisture correction.
Moisture always zero.	Recording problems.	Check if recording status comes ON when harvesting.

OUO6075,0000A75-19-03NOV10

Mass Flow Sensor (If Equipped)

Symptom	Problem	Solution
Yield is constantly too high or low.	System is out of calibration.	Change yield calibration.
	Incorrect header width.	Change header width.
	Incorrect crop selection.	Select correct crop.
	Dirt, mud, or debris on impact plate.	Clean impact plate.
Yield is zero.	No ground speed.	See your John Deere dealer.
	Clean grain elevator speed is too low.	See your John Deere dealer.
	Recording problems.	Check if recording status comes ON when harvesting.

OUO6075,0000A76-19-03NOV10

Storage

Preparing Machine for Storage

Swing out condenser and oil cooler and clean radiator with air, water, or a vacuum cleaner.

Clean condenser and oil cooler after cleaning radiator. Clean charge air cooler.

Every 60—90 days start engine and turn air conditioning ON. Run engine at low idle for several minutes for compressor seal lubrication. Outside temperature should be above 5°C (40°F) for proper air conditioning operation.

Clean outside of engine with a safe solvent.

CAUTION: Do not use gasoline.

Clean inside of air cleaner and install new elements.

With engine warm, drain crankcase. Replace filter and fill with correct oil. Add 0.66 L (22 oz) of corrosion inhibitor to crankcase. Run engine to circulate.

Drain, flush, and refill cooling system with 50/50 mixture of antifreeze and water.

IMPORTANT: Long-term storage in vehicle (over 12 months) is not recommended. If long-term storage is necessary, periodic testing of Diesel Exhaust Fluid (DEF) is recommended to ensure that urea concentration does not fall out of specification.

Final Tier 4/Stage V: Diesel Exhaust Fluid (DEF) has a limited shelf life, but may be stored in vehicle for as long as 12 months, depending upon storage conditions. See Handling and Storing Diesel Exhaust Fluid (DEF) in Fuels and Lubricants section and Diesel Exhaust Fluid (DEF) Tank Filling and Diesel Exhaust Fluid (DEF) Tank Draining in Service Engine section for further information.

IMPORTANT: Final Tier 4/Stage V: Do not disconnect battery for at least 90 seconds after machine is shut OFF. Selective Catalyst Reduction (SCR) system automatically purges lines of Diesel Exhaust Fluid (DEF) during this time, immediately after machine is shut OFF. If adequate time is not allowed for lines to be purged, any fluid remaining in lines can crystallize and plug lines. In freezing weather, fluid freezes and possibly burst lines.

NOTE: Turn battery disconnect switch OFF if machine is stored longer than 25 days. If storage period is longer than 90 days, remove negative lead to batteries to minimize load to batteries.

Charge batteries completely. Specific gravity equals 1.260 volts. Remove negative lead to batteries to minimize load to the batteries.

Drain water separator.

Clean machine inside and out. Leave elevator doors and drain covers open.

Cycle concave up and down several times to prevent material buildup in the concave area.

IMPORTANT: Directing pressurized water at electronic/electrical components or connectors, bearings and hydraulic seals, fuel injection pumps or other sensitive parts and components may cause product malfunctions. Reduce pressure, and spray at a 45 to 90 degree angle.

Repaint areas where needed.

NOTE: It is not necessary to wax machine. However, if desired, use a good clear wax that contains no abrasives. These types of waxes usually do not contain cleaners.

Lubricate machine and grease adjusting bolt threads.

Perform all 400 hour (yearly) service.

Fill fuel tank to prevent condensation.

IMPORTANT: When fuel is stored in the machines fuel tank or farms storage tank for extended periods, or if there is a slow turn over of fuel, add a fuel conditioner to stabilize the fuel and prevent water condensation. Contact your John Deere dealer for recommendations.

For prolonged machine storage the best practice is to drain biodiesel and fill machine with regular petroleum diesel fuel. Otherwise use biodiesel stabilizer (anti-oxidant) additives or fully formulated biodiesel conditioners. Contact your John Deere dealer for recommendations.

If machine is to be stored for a long period of time remove and clean batteries. Store them in a cool, dry place and keep them fully charged.

Air compressor reservoir (if equipped) MUST be drained of water prior to storing the machine.

OUO6075,000481F-19-14NOV17

Removing Machine from Storage

Reconnect and/or charge batteries.

Charge batteries completely. Specific gravity equals 1.260. Remove negative lead to batteries to minimize load to the batteries.

Check oil and coolant levels. Inspect for leaks and add oil and coolant if needed.

Final Tier 4/Stage V: If Diesel Exhaust Fluid (DEF) tank was not drained, test urea concentration, see Testing Diesel Exhaust Fluid (DEF) in Fuels and Lubricants

section for further information. If concentration is not within specifications, drain and replace with new Diesel Exhaust Fluid (DEF). If Diesel Exhaust Fluid (DEF) tank was drained, fill tank. See Diesel Exhaust Fluid (DEF) Tank Filling in Service Engine section for further information.

Close elevator doors and drain hole.

Check drive belt tensions. Adjust spring loaded idlers until the washer is positioned between the end of the gauge and the bottom of the step.

Check tire inflation and review machine operator's manual.

Inspect fire extinguishers (front and rear) by following maintenance instructions on the fire extinguisher label. Recharge or replace as necessary.

OUO6075,0004820-19-14NOV17

Specifications

Operating Speeds (S760 and S770)

Speeds shown are average and can vary from machine to machine.

NOTE: Operating speed specifications and design subject to change without notice.

Engine Speeds	9.0 L Tier 2/Stage II Engine	9.0 L Final Tier 4/Stage V Engine
Slow Speed (Separator Off)	1200 rpm	1200 rpm
Medium Speed (Separator Off)	1690 rpm	1690 rpm
Fast Speed (Separator Off)	2340 rpm	2340 rpm
Rated Speed (Separator On)	2200 rpm	2200 rpm

Separator Drive Shaft Speed	1453 rpm

Main Countershaft Speed	1453 rpm

Separator Speeds	
High Range	400—1000 rpm
Low Range	210—530 rpm

Feeder House Lower Shaft Speeds	
Fixed Speed (if equipped)	490 rpm
Heavy-Duty Variable Speed (if equipped)	490—750 rpm
High Torque Variable Speed (if equipped)	490—750 rpm
Multi-Speed (if equipped)	First Gear: 480 rpm Second Gear: 535 rpm Third Gear: 590 rpm Fourth Gear: 665 rpm Fifth Gear: 735 rpm

Feed Accelerator Speeds	
Feed Accelerator (Standard Speed)	430/780 rpm
Feed Accelerator (Optional Slow Speed)	310/770 rpm
Feed Accelerator (High-Speed High Capacity)	520/970 rpm

Discharge Beater Speed	S760	S770
	998 rpm	995 rpm

Jackshaft Speeds	
Front Right-Hand Jackshaft	518 rpm
Rear Right-Hand Jackshaft	518 rpm

Cleaning Fan Speeds	
Standard Speed	620—1350 rpm
Special Slow Speed	250—500 rpm

Elevator Speeds	S760	S770
Clean Grain Elevator	417 rpm	415 rpm
Clean Grain Loading Auger	448 rpm	445 rpm
Tailings Elevator, Lower Auger	395 rpm	
Tailings Elevator, Upper Auger	625 rpm	
Shoe Drive	298 rpm	
Conveyor Augers	420 rpm	

Unloading System Speeds (Separator Engaged)	
Unloading System Countershaft	1000 rpm
Unloading Auger Gearbox, Input Shaft	460 rpm, 116 L/s (3.3 bu/s) Unload Rate

Unloading System Speeds (Separator Engaged)	
Unloading Vertical Auger	460 rpm, 116 L/s (3.3 bu/s) Unload Rate
Unloading Outer Auger	460 rpm, 116 L/s (3.3 bu/s) Unload Rate
Grain Tank Horizontal Augers (Front and Rear)	330 rpm, 116 L/s (3.3 bu/s) Unload Rate

Chopper Speeds	**Deluxe Residue**	**Intermediate Residue**	**Premium Residue**
Chopper/Discharge Beater Jackshaft	1880 rpm	2045 rpm	2045 rpm
Chopper (Two-Speed)	1505/2350 rpm	1400/2995 rpm	1400/2995 rpm
Overshot Beater	Not Applicable	Not Applicable	995 rpm

OUO6075,00049CE-19-07JUN18

Operating Speeds (S780, S785, and S790)

Speeds shown are average and can vary from machine to machine.

NOTE: Operating speed specifications and design subject to change without notice.

Engine Speeds	13.5 L Tier 2/Stage II Engine	13.5 L Final Tier 4/Stage V Engine
Slow Speed (Separator Off)	1200 rpm	1200 rpm
Medium Speed (Separator Off)	1690 rpm	1690 rpm
Fast Speed (Separator Off)	2240 rpm	2240 rpm
Rated Speed (Separator On)	2100 rpm	2100 rpm

Separator Drive Shaft Speed	1466 rpm

Main Countershaft Speed	1466 rpm

Separator Speeds	
High Range	400—1000 rpm
Low Range	210—530 rpm

Tailings System Speed	880 rpm

Feeder House Lower Shaft Speeds	
Fixed Speed	490 rpm
Multi-Speed	First Gear: 480 rpm Second Gear: 535 rpm Third Gear: 590 rpm Fourth Gear: 665 rpm Fifth Gear: 735 rpm

Feed Accelerator Speeds	
Feed Accelerator (Standard Speed)	430/780 rpm
Feed Accelerator (Optional Slow Speed)	310/770 rpm
Feed Accelerator (High-Speed High Capacity)	520/970 rpm

Discharge Beater Speed	995 rpm

Jackshaft Speeds	
Front Right-Hand Jackshaft	520 rpm
Rear Right-Hand Jackshaft	520 rpm

Cleaning Fan Speeds	
Standard Speed	620—1350 rpm
Special Slow Speed	250—500 rpm

Elevator Speeds	
Clean Grain Elevator	415 rpm
Clean Grain Loading Auger	450 rpm
Tailings Elevator, Lower Auger	490 rpm
Tailings Elevator, Upper Auger	580 rpm
Shoe Drive	300 rpm
Conveyor Augers	425 rpm

Unloading System Speeds (Separator Engaged)	S780, S785, and S790	S780 HillMaster™, S785 HillMaster™, and S790 HillMaster™
Unloading System Countershaft	1005 rpm	
Unloading Auger Gearbox, Input Shaft	460 rpm	465 rpm

Unloading System Speeds (Separator Engaged)	S780, S785, and S790	S780 HillMaster™, S785 HillMaster™, and S790 HillMaster™
Unloading Vertical Auger	460 rpm	465 rpm
Unloading Outer Auger	460 rpm	465 rpm
Grain Tank Horizontal Augers (Front and Rear)	450 rpm	335 rpm

HillMaster is a trademark of Deere & Company

Chopper Speeds	Deluxe Residue	Intermediate Residue	Premium Residue
Chopper/Discharge Beater Jackshaft	1880 rpm	2045 rpm	2045 rpm
Chopper (Two-Speed)	1505/2350 rpm	1400/2995 rpm	1400/2995 rpm
Overshot Beater	Not Applicable	Not Applicable	995 rpm

OUO6075,00049CF-19-07JUN18

Specifications (S760 and S770)

NOTE: Specifications and design subject to change without notice.

Engine		
Make	John Deere	
Model	6090HH006 (9.0 L Tier 2/Stage II) 6090HH029 (9.0 L Final Tier 4/Stage V)	
Type	Six-cylinder, in-line, valve-in-head (four valves), air-to-air aftercooled diesel turbocharged	
	S760	**S770**
Rated Power (Tier 2/Stage II)	239 kW (320 hp)	278 kW (373 hp)
Rated Power (Final Tier 4/Stage V)	249 kW (334 hp)	292 kW (392 hp)
Rated Speed	2200 rpm	2200 rpm
Power Boost at Rated Speed	25 kW (34 hp)	25 kW (34 hp)
Peak Power (Tier 2/Stage II)	272 kW (365 hp)	317 kW (425 hp)
Peak Power (Final Tier 4/Stage V)	285 kW (382 hp)	335 kW (449 hp)
Peak Power Speed (Rated Speed -200 rpm)	2000 rpm	
Displacement	9.0 L (549 in³)	
Firing Order	1-5-3-6-2-4	
Air Cleaner	Dry type with safety element	

Electrical System	
Battery Voltage	12 Volts
Battery Terminal Grounded	Negative
Alternator (Tier 2/Stage II) Alternators (Final Tier 4/Stage V)	200 A

Transmission	
Speeds (Mechanical Shift Machines)	Three Speeds
Speeds (Push-Button Shift Machines)	Three Speeds
Speeds (ProDrive™ Machines)	Two-Speed Auto-Shift

ProDrive is a trademark of Deere & Company

Brakes	
Type (Mechanical Shift Machines)	Hydraulic Shoe
Type (Push-Button Shift Machines)	Hydraulic Shoe
Type (ProDrive™ Machines)	Multiple Wet Discs

Feed Accelerator	**S760 and S770**	**S770 HillMaster™**
Number of Wings	Standard: 10 Tough Crop: 8 Rice: 5	Tough Crop: 8

HillMaster is a trademark of Deere & Company

Separator Elements	
Threshing Elements (TriStream™ Rotor)	Corn/Small Grain: 15
Threshing Elements (Variable Stream Rotor)	Corn/Small Grain: 15 Rice Option: 15 elements and 12 threshing tines in dense pack locations
Tines (TriStream™ Rotor)	24
Tines (Variable Stream Rotor)	20

TriStream is a trademark of Deere & Company

Concave	
Number of Concaves	3
Number of Bars Per Concave	Grain—Front 25, Mid/rear 25; Corn 31

Separator	
Number of Grates	4

Discharge Grate	
Number of Grates	3

Discharge Beater	**S760 and S770**	**S770 HillMaster™**
Number of Wings	Standard: 5 Tough Crop: 8	Tough Crop: 8

Grain Tank	
Capacity	10 572 L (300 bu) Extensions 10 572 L (300 bu) Covers
Average Unloading Rate, 116 L/s (3.3 bu/s) Unload Rate	6977 L/min (198 bu/min)
Maximum Unloading Rate, 116 L/s (3.3 bu/s) Unload Rate	7612 L/min (216 bu/min)

Turning Radius	
Rear Wheel Tread Width	3.35 m (10 ft 10 in)
Turning Radius (Non-Powered Axles)	8.02 m (26 ft 3 in)
Turning Radius (Powered Axles)	7.73 m (25 ft 4 in)

Capacities	**S760**	**S770**
Fuel Tank	950 L (250 gal)	
Diesel Exhaust Fluid (DEF) Tank (Final Tier 4/Stage V)	52.2 L (13.8 gal)	
Cooling System with heater (Tier 2/Stage II)	53 L (56 qt)	
Cooling System with heater (Final Tier 4/Stage V)	53 L (56 qt)	
Engine Crankcase with filter (Tier 2/Stage II)	27.5 L (29 qt) [a]	
Engine Crankcase with filter (Final Tier 4/Stage V)	27.5 L (29 qt) [a]	
Transmission (Mechanical Shift and Push-Button Shift Machines)	9.6 L (10 qt)	
Final Drives	8 L (8.5 qt) Single Wheel Configuration 25 L (26.4 qt) Dual Wheel Configuration	
Final Drives (HillMaster™)	Not Applicable	7 L (7.4 qt)
Heavy-Duty Feeder House Reverser Gear Case without cooler	2.3 L (4.75 pt)	
Heavy-Duty Feeder House Reverser Gear Case with cooler	3.5 L (7.4 pt)	Not Applicable
Extra Heavy-Duty Feeder House Reverser Gear Case with cooler	4.9 L (10.4 pt)	
Multi-Speed Feeder House Reverser Gear Case with cooler	Not Applicable	5.2 L (11 pt)
Premium Overshot Beater Gear Case (if equipped)	Not Applicable	0.2 L (6.75 oz)
Primary Countershaft Drive Gear Case	1.9 L (2.04 qt)	
Loading Auger Gear Case	3.8 L (4 qt)	
Two-Speed Separator Drive Gear Case	4.7 L (5 qt)	
Engine Gear Case with transfer (Mechanical Shift and Push-Button Shift Machines)	21.3 L (22.5 qt)	
Engine Gear Case with transfer (ProDrive™ Machines)	51 L (54 qt)	
Hydraulic/Hydrostatic Reservoir	31 L (33 qt)	

[a] *It is vital to maintain engine oil at correct levels. Always verify that oil level is at correct location on dipstick when servicing.*

Air Compressor (if equipped)		
Reservoir Size	60 L (16 gal)	
Maximum Reservoir Pressure	827 kPa (8.27 bar) (120 psi)	
Air Compressor Flow	Slow Engine Speed	250 L/min (8.8 ft³/min)
	High Engine Speed	450 L/min (15.8 ft³/min)

OUO6075,0004A11-19-10AUG18

Specifications (S780, S785, and S790)

NOTE: Specifications and design subject to change without notice.

Engine		
Make	John Deere	
Model	6135HH004 (13.5 L Tier 2/Stage II) 6135HH011 (13.5 L Final Tier 4/Stage V)	
Type	Six-cylinder, in-line, valve-in-head, air-to-air aftercooled diesel turbocharged	
	S780	**S785**
Rated Power (Tier 2/Stage II)	353 kW (473 hp)	373 kW (500 hp)
Rated Power (Final Tier 4/Stage V)	353 kW (473 hp)	373 kW (500 hp)
Rated Speed	2100 rpm	2100 rpm
Power Boost at Rated Speed	37 kW (50 hp)	37 kW (50 hp)
Peak Power (Tier 2/Stage II)	402 kW (540 hp)	425 kW (570 hp)
Peak Power (Final Tier 4/Stage V)	402 kW (540 hp)	425 kW (570 hp)
Peak Power Speed (Rated Speed -200 rpm)	1900 rpm	
Displacement	13.5 L (824 in³)	
Firing Order	1-5-3-6-2-4	
Air Cleaner	Dry type with safety element	
	S790	
Rated Power (Tier 2/Stage II)	405 kW (543 hp)	
Rated Power (Final Tier 4/Stage V)	405 kW (543 hp)	
Rated Speed	2100 rpm	
Power Boost at Rated Speed (Tier 2/Stage II)	23 kW (31 hp)	
Power Boost at Rated Speed (Final Tier 4/ Stage V)	37 kW (50 hp)	
Peak Power (Tier 2/Stage II)	458 kW (614 hp)	
Peak Power (Final Tier 4/Stage V)	460 kW (617 hp)	
Peak Power Speed (Rated Speed -200 rpm)	1900 rpm	
Displacement	13.5 L (824 in³)	
Firing Order	1-5-3-6-2-4	
Air Cleaner	Dry type with safety element	

Electrical System	
Battery Voltage	12 Volts
Battery Terminal Grounded	Negative
Alternator (Tier 2/Stage II) Alternators (Final Tier 4/Stage V)	200 A

Transmission	
Speeds	Two-Speed Auto-Shift

Brakes	
Type	Multiple Wet Discs

Feed Accelerator	**S780, S785, and S790**	**S780 HillMaster™, S785 HillMaster™, and S790 HillMaster™**
Number of Wings	Standard: 10 Tough Crop: 8 Rice: 5	Tough Crop: 8

HillMaster is a trademark of Deere & Company

Separator Elements	
Threshing Elements (TriStream™ Rotor)	Corn/Small Grain: 15
Threshing Elements (Variable Stream Rotor)	Corn/Small Grain: 15 Rice Option: 15 elements and 12 threshing tines in dense pack locations
Tines (TriStream™ Rotor)	24
Tines (Variable Stream Rotor)	20

TriStream is a trademark of Deere & Company

Concave	
Number of Concaves	3
Number of Bars Per Concave	Grain—Front 25, Mid/rear 25; Corn 31

Separator	
Number of Grates	4

Discharge Grate	
Number of Grates	1

Discharge Beater	**S780, S785, and S790**	**S780 HillMaster™, S785 HillMaster™, and S790 HillMaster™**
Number of Wings	Standard: 10 Tough Crop: 8	Tough Crop: 8

Grain Tank	**S780, S785, and S790**
Capacity	14 096 L (400 bu) Extensions 14 096 L (400 bu) Covers
Average Unloading Rate, 134 L/s (3.8 bu/s) Unload Rate	8035 L/min (228 bu/min)
Maximum Unloading Rate, 134 L/s (3.8 bu/s) Unload Rate	8670 L/min (246 bu/min)

Grain Tank	**HillMaster™ Machines**
Capacity	10 572 L (300 bu) Extensions 10 572 L (300 bu) Covers
Average Unloading Rate, 116 L/s (3.3 bu/s) Unload Rate	6977 L/min (198 bu/min)
Maximum Unloading Rate, 116 L/s (3.3 bu/s) Unload Rate	7612 L/min (216 bu/min)

Turning Radius	
Rear Wheel Tread Width	3.35 m (10 ft 10 in)
Turning Radius (Non-Powered Axles)	8.02 m (26 ft 3 in)
Turning Radius (Powered Axles)	7.73 m (25 ft 4 in)

Capacities	
Fuel Tank	950 L (250 gal) Optional 1250 L (330 gal) Standard
Diesel Exhaust Fluid (DEF) Tank (Final Tier 4/Stage V)	52.2 L (13.8 gal)
Cooling System with heater (Tier 2/Stage II)	61.2 L (65 qt)
Cooling System with heater (Final Tier 4/Stage V)	85 L (90 qt)
Engine Crankcase with filter (Tier 2/Stage II)	39 L (41 qt) [a]
Engine Crankcase with filter (Final Tier 4/Stage V)	43 L (45.5 qt) [a]
Final Drives	8 L (8.5 qt) Single Wheel Configuration 25 L (26.4 qt) Dual Wheel Configuration 7 L (7.4 qt) HillMaster™ Machines
Extra Heavy-Duty Feeder House Reverser Gear Case without cooler	3.6 L (7.7 pt)
Multi-Speed Feeder House Reverser Gear Case with cooler (optional)	5.2 L (11 pt)
Premium Overshot Beater Gear Case (if equipped)	0.2 L (6.75 oz)
Primary Countershaft Drive Gear Case (Non-Multi-Speed)	1.9 L (2.04 qt)
Loading Auger Gear Case	3.8 L (4 qt)

Capacities	
Two-Speed Separator Drive Gear Case	4.7 L (5 qt)
Engine Gear Case with transfer	51 L (54 qt)
Hydraulic/Hydrostatic Reservoir	47 L (50 qt)

[a]*It is vital to maintain engine oil at correct levels. Always verify that oil level is at correct location on dipstick when servicing.*

Air Compressor (if equipped)		
Reservoir Size	60 L (16 gal)	
Maximum Reservoir Pressure	827 kPa (8.27 bar) (120 psi)	
Air Compressor Flow	Slow Engine Speed	250 L/min (8.8 ft³/min)
	High Engine Speed	450 L/min (15.8 ft³/min)

OUO6075,0004A12-19-10AUG18

Dimensions (S760 and S770)

NOTE: Dimensions are approximate and subject to change without notice.

Dimension	S760 and S770
A	9.81 m (32 ft 2 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 11.03 m (36 ft 2 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 11.71 m (38 ft 5 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 11.97 m (39 ft 3 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 12.45 m (40 ft 10 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
B	9.14 m (30 ft 0 in) with 6.9 m (22 ft 6 in) Power Fold Auger 9.98 m (32 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Auger
C	8.54 m (28 ft 0 in)
D	4.79—4.87 m (15 ft 9 in—16 ft 0 in) with 10 572 L (300 bu) Covers
E	4.49—4.71 m (14 ft 9 in—15 ft 5 in) Clean Grain Loading Auger
F	4.18—4.26 m (13 ft 9 in—14 ft 0 in) with 10 572 L (300 bu) Extensions
G	3.92—4.00 m (12 ft 10 in—13 ft 1 in)
H	3.64—3.92 m (11 ft 11 in—12 ft 10 in)
I	0.54—0.63 m (1 ft 9 in—2 ft 1 in)
J	3.53 m (11 ft 7 in)
K	6.53 m (21 ft 5 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 7.66 m (25 ft 2 in) with 6.9 m (22 ft 6 in) Rigid Unloading Auger 7.69 m (25 ft 3 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 8.97 m (29 ft 5 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 8.72 m (28 ft 7 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 9.42 m (30 ft 11 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
L	4.63—4.91 m (15 ft 2 in—16 ft 1 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 5.12—5.19 m (16 ft 10 in—17 ft 0 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 5.38—5.45 m (17 ft 8 in—17 ft 11 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 5.32—5.38 m (17 ft 5 in—17 ft 8 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 5.49—5.56 m (18 ft 0 in—18 ft 3 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
M	3.93—4.21 m (12 ft 11 in—13 ft 10 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 4.42—4.49 m (14 ft 6 in—14 9 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 4.52—4.58 m (14 ft 10 in—15 ft 0 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 4.28—4.52 m (14 ft 0 in—14 ft 10 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 4.63—4.69 m (15 ft 2 in—15 ft 5 in) with 8.7 m (28 ft 6 in) Unloading Auger
N [a]	3.99—4.27 m (13 ft 1 in—14 ft 0 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 4.49—4.55 m (14 ft 9 in—14 ft 11 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 4.81—4.88 m (14 ft 9 in—16 ft 0 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 4.75—4.81 m (15 ft 7 in—15 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 4.92—4.98 m (16 ft 2 in—16 ft 4 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
O [b]	3.47—4.34 m (11 ft 5 in—14 ft 3 in) Rear Tires
P [b]	3.49—5.36 m (11 ft 5 in—17 ft 7 in) Front Tires

[a] Dimension is measured 1.22 m (4 ft) from the grain spill point. This represents the unloading auger when centered over the grain cart.
[b] Due to the different tire configurations, row spacings, axle configurations, wheel offsets, axle positions, and spindles types, machine widths vary. Measurements given in chart are for minimum and maximum widths. For more detailed width information, see your John Deere dealer.

OUO6075,00049D5-19-14JUN18

Dimensions (S770 HillMaster™)

NOTE: Dimensions are approximate and subject to change without notice.

Dimension	S770 HillMaster™
A	9.81 m (32 ft 2 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 11.03 m (36 ft 2 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 11.97 m (39 ft 3 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
B	9.14 m (30 ft 0 in) with 6.9 m (22 ft 6 in) Power Fold Auger 9.98 m (32 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Auger
C	8.54 m (28 ft 0 in)
D	4.81—4.89 m (15 ft 9 in—16 ft 0 in) with 10 572 L (300 bu) Covers
E	4.52—4.59 m (14 ft 10 in—15 ft 1 in) Clean Grain Loading Auger
F	4.21—4.28 m (13 ft 10 in—14 ft 0 in) with 10 572 L (300 bu) Extensions
G	3.94—4.02 m (12 ft 11 in—13 ft 2 in)
H	3.88—3.96 m (12 ft 9 in—13 ft 0 in)
I	0.59—0.67 m (1 ft 11 in—2 ft 2 in)
J	3.53 m (11 ft 7 in)
K	6.53 m (21 ft 5 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 7.69 m (25 ft 3 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 8.72 m (28 ft 7 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
L	4.72—4.95 m (15 ft 6 in—16 ft 3 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 5.00—5.23 m (16 ft 5 in—17 ft 2 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 5.19—5.42 m (17 ft 0 in—17 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
M	4.02—4.25 m (13 ft 2 in—13 ft 11 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 4.30—4.53 m (14 ft 1 in—14 ft 10 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 4.33—4.56 m (14 ft 2 in—14 ft 11 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
N [a]	4.08—4.31 m (13 ft 5 in—14 ft 2 in) with 5.6 m (18 ft 6 in) Rigid Unloading Auger 4.36—4.59 m (14 ft 4 in—15 ft 1 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 4.62—4.85 m (15 ft 2 in—15 ft 11 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
O [b]	3.48—3.70 m (11 ft 5 in—12 ft 2 in) Rear Tires
P [b]	3.48—3.78 m (11 ft 5 in—12 ft 5 in) Front Tires

[a]Dimension is measured 1.22 m (4 ft) from the grain spill point. This represents the unloading auger when centered over the grain cart.
[b]Due to the different tire configurations, row spacings, axle configurations, wheel offsets, axle positions, and spindles types, machine widths vary. Measurements given in chart are for minimum and maximum widths. For more detailed width information, see your John Deere dealer.

OUO6075,00049D6-19-14JUN18

Dimensions (S780, S785, and S790)

NOTE: Dimensions are approximate and subject to change without notice.

Dimension	S780, S785, and S790
A	11.03 m (36 ft 2 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 11.71 m (38 ft 5 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 11.97 m (39 ft 3 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 12.45 m (40 ft 10 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
B	9.14 m (30 ft 0 in) with 6.9 m (22 ft 6 in) Power Fold Auger 9.98 m (32 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Auger
C	8.54 m (28 ft 0 in)
D	4.79—4.87 m (15 ft 9 in—16 ft 0 in) with 14 096 L (400 bu) Covers
E	4.64—4.73 m (15 ft 3 in—15 ft 6 in) Clean Grain Loading Auger
F	4.46—4.54 m (14 ft 8 in—14 ft 11 in) with 14 096 L (400 bu) Extensions
G	3.92—4.00 m (12 ft 10 in—13 ft 1 in)
H	3.64—3.92 m (11 ft 11 in—12 ft 10 in)
I	0.54—0.63 m (1 ft 9 in—2 ft 1 in)
J	3.53 m (11 ft 7 in)
K	7.66 m (25 ft 2 in) with 6.9 m (22 ft 6 in) Rigid Unloading Auger 7.69 m (25 ft 3 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 8.97 m (29 ft 5 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 8.72 m (28 ft 7 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 9.42 m (30 ft 11 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
L	5.12—5.19 m (16 ft 10 in—17 ft 0 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 5.38—5.45 m (17 ft 8 in—17 ft 11 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 5.32—5.38 m (17 ft 5 in—17 ft 8 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 5.49—5.56 m (18 ft 0 in—18 ft 3 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
M	4.42—4.49 m (14 ft 6 in—14 ft 9 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 4.52—4.58 m (14 ft 10 in—15 ft 0 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 4.24—4.52 m (13 ft 11 in—14 10 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 4.63—4.69 m (15 ft 2 in—15 ft 5 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
N [a]	4.49—4.55 m (14 ft 9 in—14 ft 11 in) with 6.9 m (22 ft 6 in) Rigid and Power Fold Unloading Auger 4.82—4.88 m (15 ft 10 in—16 ft 0 in) with 7.9 m (26 ft 0 in) Rigid Unloading Auger 4.75—4.81 m (15 ft 7 in—15 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger 4.92—4.98 m (16 ft 2 in—16 ft 4 in) with 8.7 m (28 ft 6 in) Rigid Unloading Auger
O [b]	3.39—4.34 m (11 ft 1 in—14 ft 3 in) Rear Tires
P [b]	3.49—5.36 m (11 ft 5 in—17 ft 7 in) Front Tires

[a] Dimension is measured 1.22 m (4 ft) from the grain spill point. This represents the unloading auger when centered over the grain cart.
[b] Due to the different tire configurations, row spacings, axle configurations, wheel offsets, axle positions, and spindles types, machine widths vary. Measurements given in chart are for minimum and maximum widths. For more detailed width information, see your John Deere dealer.

OUO6075,00049D7-19-14JUN18

Dimensions (S780 HillMaster™, S785 HillMaster™ and S790 HillMaster™)

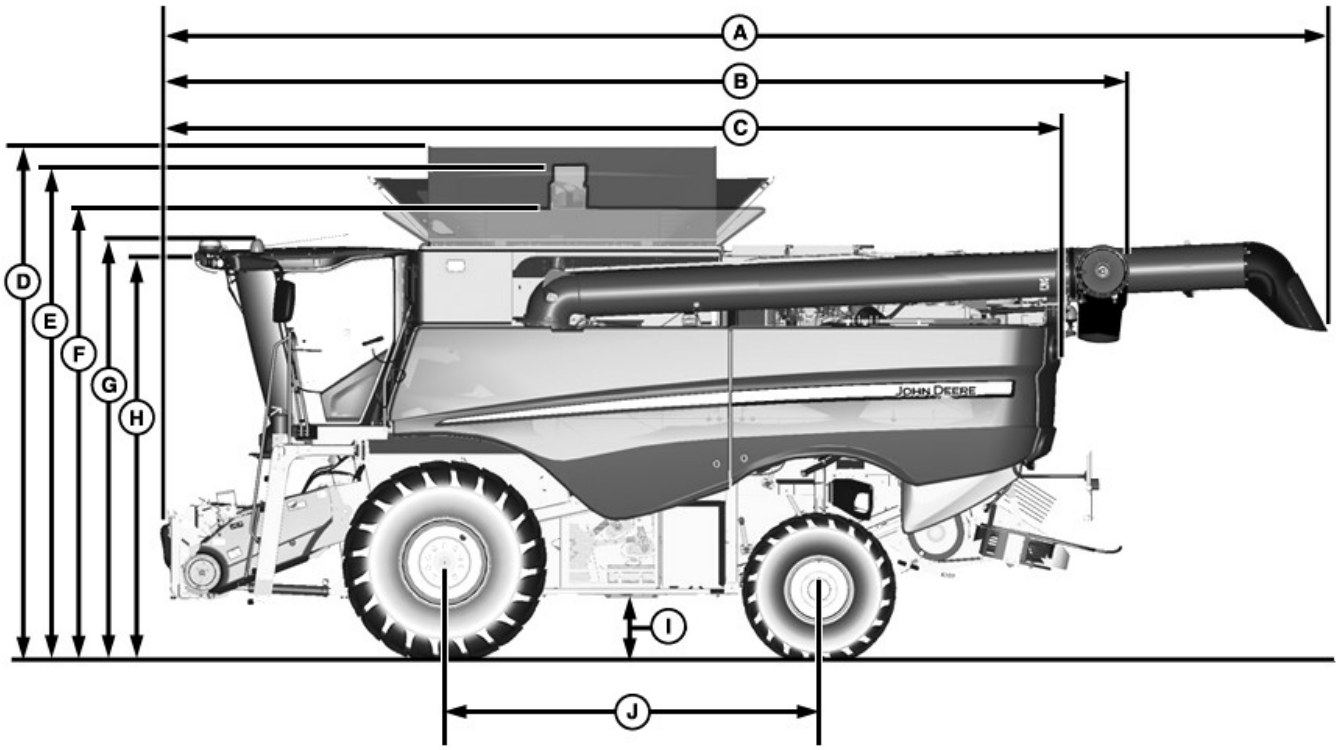
NOTE: Dimensions are approximate and subject to change without notice.

Dimension	S780 HillMaster™, S785 HillMaster™ and S790 HillMaster™
A	11.03 m (36 ft 2 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 11.97 m (39 ft 3 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
B	9.14 m (30 ft 0 in) with 6.9 m (22 ft 6 in) Power Fold Auger 9.98 m (32 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Auger
C	8.54 m (28 ft 0 in)
D	4.79—4.82 m (15 ft 9 in—15 ft 10 in) with 10 572 L (300 bu) Covers
E	4.53—4.65 m (14 ft 10 in—15 ft 3 in) Clean Grain Loading Auger
F	4.18—4.22 m (13 ft 9 in—13 ft 10 in) with 10 572 L (300 bu) Extensions
G	3.92—3.96 m (12 ft 10 in—13 ft 0 in)
H	3.86—3.89 m (12 ft 8 in—12 ft 9 in)
I	0.56—0.60 m (1 ft 10 in—2 ft 0 in)
J	3.53 m (11 ft 7 in)
K	7.69 m (25 ft 3 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 8.72 m (25 ft 7 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
L	5.01—5.23 m (16 ft 5 in—17 ft 2 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 5.20—5.42 m (17 ft 1 in—17 ft 9 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
M	4.31—4.53 m (14 ft 2 in—14 ft 10 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 4.34—4.56 m (14 ft 3 in—15 ft 0 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
N [a]	4.49—4.50 m (14 ft 8 in—14 ft 9 in) with 6.9 m (22 ft 6 in) Power Fold Unloading Auger 4.75 m (15 ft 7 in) with 7.9 m (26 ft 0 in) Power Fold Unloading Auger
O [b]	3.48—3.68 m (11 ft 5 in—12 ft 1 in) Rear Tires
P [b]	3.47—3.80 m (11 ft 5 in—12 ft 6 in) Front Tires

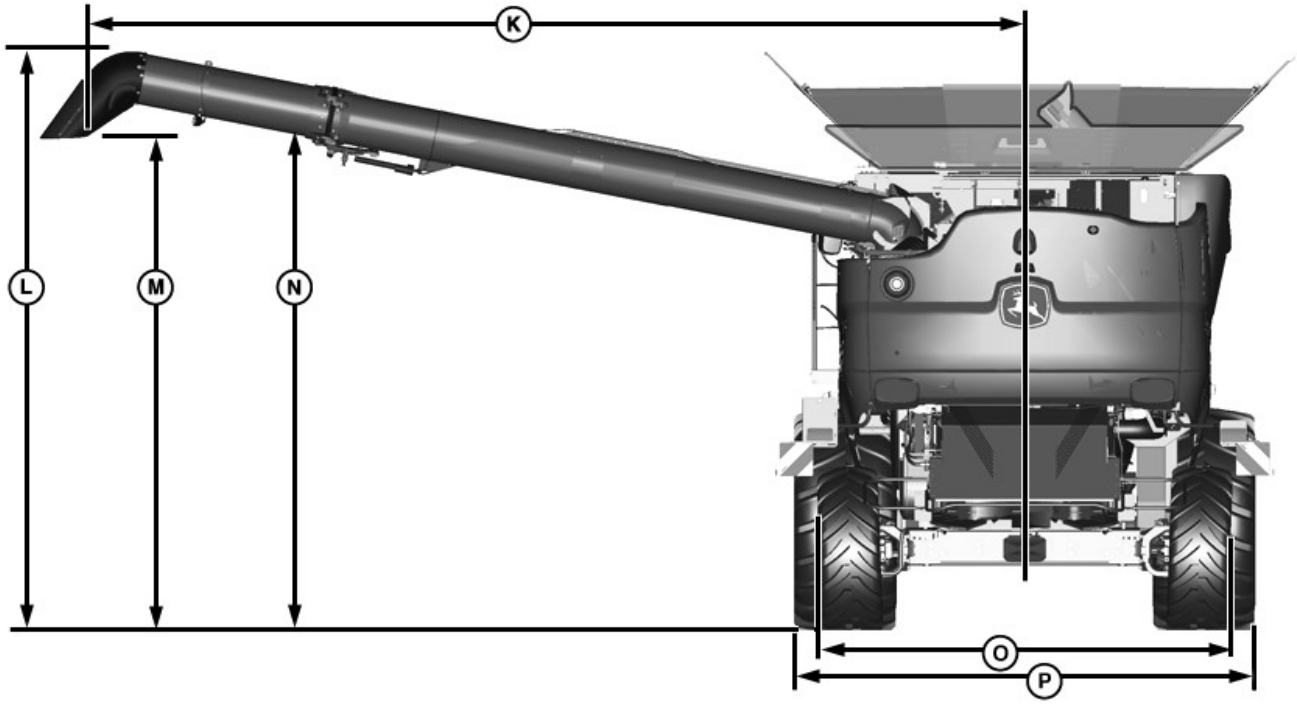
[a]Dimension is measured 1.22 m (4 ft) from the grain spill point. This represents the unloading auger when centered over the grain cart.
[b]Due to the different tire configurations, row spacings, axle configurations, wheel offsets, axle positions, and spindles types, machine widths vary. Measurements given in chart are for minimum and maximum widths. For more detailed width information, see your John Deere dealer.

OUO6075,00049D8-19-14JUN18

Dimension Reference Points



H107111—UN—28FEB13



H107112—UN—28FEB13
OUO6075,00049AB-19-30MAY18

Whole Body Vibration

The weighted root mean square acceleration to which the whole body is subjected to ranges from 0.51 to 0.73 m/s^2 as measured on a representative machine during typical operations and analyzed in accordance with ISO 2631. During the same operations, the weighted root mean square hand-arm vibration was less than 2.5 m/s^2 when analyzed in accordance with ISO 5349. These acceleration values depend on the roughness of the ground, the speeds at which the combine is operated, the operator's experience, weight and driving habits.

OUO6075,0000AA6-19-17NOV10

Sound Level

The A-weight sound pressure levels inside the operator's station ranged from 72.8 — 77.0 dB(A) as measured on several representative machines in accordance with ISO 5131. The sound pressure level depends upon the engine speed and load, separator settings, field and crop conditions and the type of platform used.

OUO6075,0000AA7-19-22MAR11

Safety Note Regarding the Subsequent Installation of Electrical and Electronic Appliances and/or Components

The machine is equipped with electronic components whose function may be influenced by electromagnetic radiation from other appliances. Such influences may be hazardous, so take the following safety instructions into account:

If electrical and electronic appliances are subsequently installed on the machine and connected to the on board system, the user must verify whether the installation affects the electronics or other components. This applies particularly to:

- Area counter
- Personal Computer
- GPS (Global Positioning System) receiver

In particular, subsequently installed electrical/electronic components must comply with the relevant edition of EMC Directive 89/336/EEC, and be CE marked.

If mobile communication systems (e.g. radio communication, telephone) are to be installed subsequently, the following extra requirements must be met:

- Only devices with an approval complying with the valid national regulation (i.e. BZT approval in Germany) shall be installed;
- The device shall be installed securely;
- Portable or mobile devices may be operated in the vehicle only if connected to a fixed outside antenna;
- Transmitters shall be installed separately from the vehicle's electronics;
- The antenna must be installed in a professional manner, with a good ground connection between the antenna and the vehicle ground.

Wiring, installation and maximum permissible current supply must be as stated in the installation instructions of the machine manufacturer.

OUO6075,0000AA8-19-17NOV10

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Machine Type: S700
Model(s): S760, S770, S780, S785, S790, S770 HillMaster™, S780 HillMaster™, S785 HillMaster™, and S790 HillMaster™

fulfill(s) all relevant provisions and essential requirements of the following directives:
HillMaster is a trademark of Deere & Company

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Machinery Directive	2006/42/EC	Self certified
Electromagnetic Compatibility Directive (EMC)	2014/30/EU	Self certified

The product is in conformity with the following EMC standards and/or other normative documents:

ISO 14982:1998
CISPR 12
JDQ 203:2013

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Zweibruecken, Germany
Date of Declaration: March 3, 2018
Manufacturing Unit: John Deere GmbH & Co. KG John Deere Werk Zweibrücken

Name: Dr.-Ing. Martin Büermann
Title: Engineering Manager Combines - Region 2

CE

DXCE01—UN—28APR09
OUO6075,00049DC-19-14JUN18

Eurasian Economic Union

EAC

TS1738—UN—26APR16

EAC Marking

This information applies only to products which bear the EAC conformity mark of the Eurasian Economic Union member states.

Manufacturer:
Deere & Company, Moline, Illinois U.S.A.

Name of the authorized representative in the Eurasian Economic Union:
Limited Liability Company
“John Deere Rus”

Address of the authorized representative:
142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye “Warehouse 104”, Building 2

For technical support, contact your dealer.

Date of manufacture is denoted by the product marking on or near the serial number plate.

DX,EAC-19-27APR16

Machine Design Life

This machine is designed and manufactured to provide a long life of productive operation, however actual attainable life depends on a number of factors including the severity of working conditions and completion of recommended maintenance. (See the Service section of this manual.)

Periodically inspect and review the machine in conjunction with your John Deere dealer. The review may result in recommendations for service, component repair, remanufacture or replacement, or, if at the end of life, that the machine be removed from operation. (See separate decommissioning section of this manual for information on disposal and recycling of machine components.)

No machine should be operated if safety-related components are missing or in need of service. All missing or damaged safety-related components, including safety signs, should be repaired or replaced before operating.

DX,MACH,DESIGN,LIFE-19-14SEP15

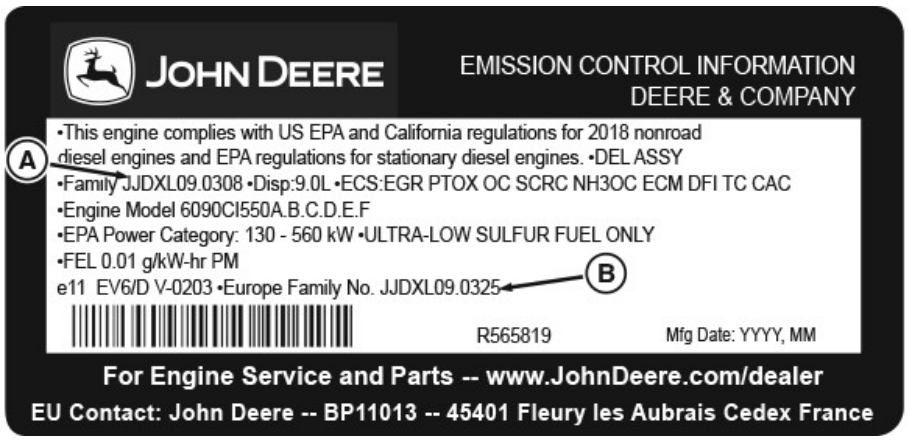
Fluorinated Greenhouse Gas

Air Conditioner System contains Fluorinated Greenhouse Gas (F-Gas)	
Type of F-Gas:	R-134a
F-Gas Mass (kg):	2.7
CO_2 Equivalent (tonnes):	3.86
Global Warming Potential (GWP):	1430

NOTE: Cab refrigerator (if equipped) contains approximately 0.040 kg of refrigerant.

OUO6075,00045E8-19-21FEB17

Carbon Dioxide Emissions (CO_2)



RG29997—UN—27FEB18

Engine Emissions Label

A—Family

NOTE: If your engine emissions label lists both a family number (A) and a Europe family number (B), reference the Europe family number using the chart.

NOTE: The first letter of the family number is not utilized for family identification on the chart.

B—Europe Family

To identify the carbon dioxide (CO_2) output, locate the engine emissions label. Find the appropriate family on the emissions label and reference the chart.

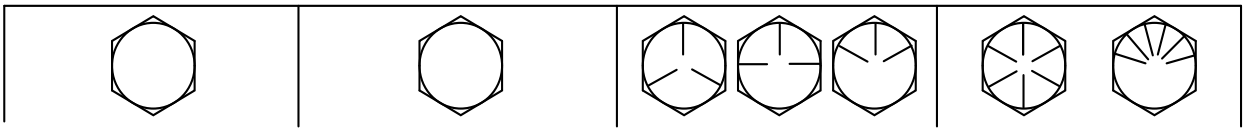
Family	CO_2 Output
_JDXL02.9323	668 g/kWh
_JDXL06.8324	683 g/kWh

Family	CO_2 Output
_JDXL09.0325	646 g/kWh
_JDXL13.5326	661 g/kWh

This CO_2 measurement results from testing over a fixed test cycle under laboratory conditions a(n) (parent) engine representative of the engine type (engine family) and shall not imply or express any guarantee of the performance of a particular engine.

DX,EMISSIONS,CO2-19-12JAN18

Unified Inch Bolt and Screw Torque Values



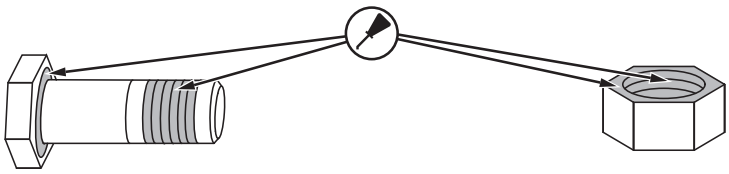
TS1671—UN—01MAY03

Bolt or Screw Size	SAE Grade 1[a]				SAE Grade 2[b]				SAE Grade 5, 5.1 or 5.2				SAE Grade 8 or 8.2			
	Hex Head[c]		Flange Head[d]		Hex Head[c]		Flange Head[d]		Hex Head[c]		Flange Head[d]		Hex Head[c]		Flange Head[d]	
	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in
1/4	3.1	27.3	3.2	28.4	5.1	45.5	5.3	47.3	7.9	70.2	8.3	73.1	11.2	99.2	11.6	103
													N·m	lb·ft	N·m	lb·ft
5/16	6.1	54.1	6.5	57.7	10.2	90.2	10.9	96.2	15.7	139	16.8	149	22.2	16.4	23.7	17.5
									N·m	lb·ft	N·m	lb·ft				
3/8	10.5	93.6	11.5	102	17.6	156	19.2	170	27.3	20.1	29.7	21.9	38.5	28.4	41.9	30.9
					N·m	lb·ft	N·m	lb·ft								
7/16	16.7	148	18.4	163	27.8	20.5	30.6	22.6	43	31.7	47.3	34.9	60.6	44.7	66.8	49.3
	N·m	lb·ft	N·m	lb·ft												
1/2	25.9	19.1	28.2	20.8	43.1	31.8	47	34.7	66.6	49.1	72.8	53.7	94	69.3	103	75.8
9/16	36.7	27.1	40.5	29.9	61.1	45.1	67.5	49.8	94.6	69.8	104	77	134	98.5	148	109
5/8	51	37.6	55.9	41.2	85	62.7	93.1	68.7	131	96.9	144	106	186	137	203	150
3/4	89.5	66	98	72.3	149	110	164	121	230	170	252	186	325	240	357	263
7/8	144	106	157	116	144	106	157	116	370	273	405	299	522	385	572	422
1	216	159	236	174	216	159	236	174	556	410	609	449	785	579	860	634
1-1/8	305	225	335	247	305	225	335	247	685	505	751	554	1110	819	1218	898
1-1/4	427	315	469	346	427	315	469	346	957	706	1051	775	1552	1145	1703	1256
1-3/8	564	416	618	456	564	416	618	456	1264	932	1386	1022	2050	1512	2248	1658
1-1/2	743	548	815	601	743	548	815	601	1665	1228	1826	1347	2699	1991	2962	2185

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench.
DO NOT use these values if a different torque value or tightening procedure is given for a specific application.
For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original.

- Make sure that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.



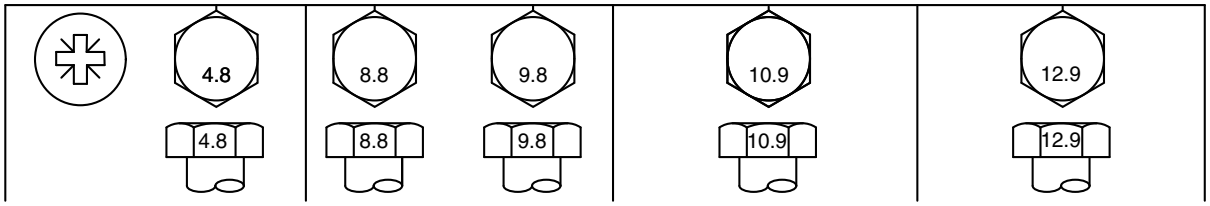
TS1741—UN—22MAY18

Bolt or Screw Size	SAE Grade 1[a]		SAE Grade 2[b]		SAE Grade 5, 5.1 or 5.2		SAE Grade 8 or 8.2	
	Hex Head[c]	Flange Head[d]	Hex Head[c]	Flange Head[d]	Hex Head[c]	Flange Head[d]	Hex Head[c]	Flange Head[d]

[a]*Grade 1 applies for hex cap screws over 6 in (152 mm) long, and for all other types of bolts and screws of any length.*
[b]*Grade 2 applies for hex cap screws (not hex bolts) up to 6 in (152 mm) long.*
[c]*Hex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.*
[d]*Hex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.*

DX,TORQ1-19-30MAY18

Metric Bolt and Screw Torque Values



TS1742—UN—31MAY18

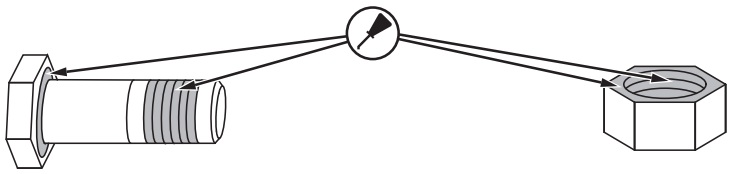
Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Hex Head[a]		Flange Head[b]		Hex Head[a]		Flange Head[b]		Hex Head[a]		Flange Head[b]		Hex Head[a]		Flange Head[b]	
	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in
M6	3.6	31.9	3.9	34.5	6.7	59.3	7.3	64.6	9.8	86.7	10.8	95.6	11.5	102	12.6	112
									N·m	lb·ft	N·m	lb·ft	N·m	lb·ft	N·m	lb·ft
M8	8.6	76.1	9.4	83.2	16.2	143	17.6	156	23.8	17.6	25.9	19.1	27.8	20.5	30.3	22.3
			N·m	lb·ft	N·m	lb·ft	N·m	lb·ft								
M10	16.9	150	18.4	13.6	31.9	23.5	34.7	25.6	46.8	34.5	51	37.6	55	40.6	60	44.3
	N·m	lb·ft														
M12	—	—	—	—	55	40.6	61	45	81	59.7	89	65.6	95	70.1	105	77.4
M14	—	—	—	—	87	64.2	96	70.8	128	94.4	141	104	150	111	165	122
M16	—	—	—	—	135	99.6	149	110	198	146	219	162	232	171	257	190
M18	—	—	—	—	193	142	214	158	275	203	304	224	322	245	356	263
M20	—	—	—	—	272	201	301	222	387	285	428	316	453	334	501	370
M22	—	—	—	—	365	263	405	299	520	384	576	425	608	448	674	497
M24	—	—	—	—	468	345	518	382	666	491	738	544	780	575	864	637
M27	—	—	—	—	683	504	758	559	973	718	1080	797	1139	840	1263	932
M30	—	—	—	—	932	687	1029	759	1327	979	1466	1081	1553	1145	1715	1265
M33	—	—	—	—	1258	928	1398	1031	1788	1319	1986	1465	2092	1543	2324	1714
M36	—	—	—	—	1617	1193	1789	1319	2303	1699	2548	1879	2695	1988	2982	2199

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench.
DO NOT use these values if a different torque value or tightening procedure is given for a specific application.
For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original.

- Make sure that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.

Bolt or Screw Size	Class 4.8		Class 8.8 or 9.8		Class 10.9		Class 12.9	
	Hex Head[a]	Flange Head[b]	Hex Head[a]	Flange Head[b]	Hex Head[a]	Flange Head[b]	Hex Head[a]	Flange Head[b]



TS1741—UN—22MAY18

[a] *Hex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.*
[b] *Hex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.*

DX,TORQ2-19-30MAY18

Federal Communications Commission Notifications to User

Modular Telematics Gateway 4G LTE and Satellite Module

These devices comply with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesired operation.

These devices must be operated as supplied by John Deere Ag Management Solutions. Any changes or modifications made to these devices without the express written approval of John Deere Ag Management Solutions may void the user's authority to operate these devices.

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, no guarantee shall be made that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

AE77568,0000189-19-23FEB16

Federal Communications Commission Notifications to User

Ethernet Switch

This device complies with part 15 of Federal Communications Commission (FCC) rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, the user will be required to correct the interference at his own expense.

These devices must be operated as supplied by John Deere Ag Management Solutions. Any changes or modifications made to these devices without the express written approval of John Deere Ag Management Solutions may void the user's authority to operate these devices.

AE77568,0000367-19-07JUN17

Third-Party Software Notifications and Licenses

The copyrights for certain portions of the Software may be owned or licensed by other third parties ("Third-Party Software") and used and distributed under license. The Third-Party Notices include the acknowledgements, notices, and licenses for the Third-Party Software. The Third-Party Software is licensed according to the applicable Third-Party Software license notwithstanding anything to the contrary in the applicable Software End-User License Agreement. The Third-Party Software contains copyrighted software that is licensed under the GPL/LGPL or other copyleft licenses. Copies of those licenses are included in the Third-Party Notices.

Third-Party Notices are available through the Mobile to Machine feature. After connecting a mobile device, use a web browser on the device to go to:

192.168.69.1/ossd

You may obtain the complete Corresponding Source Code from us for a period of three years after our last shipment of the Software by sending a request letter to:

Deere Open Source Compliance Team
P.O. Box 1202
Moline, IL 61266-1202 USA

Please include "source for John Deere MTG 4G LTE" and the version number of the software in the request letter. This offer is valid to anyone in receipt of this information.

AE77568,0000350-19-25MAY17

Industry Canada Notifications to User

John Deere JDLink™

This device complies with Industry Canada licence exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Modular Telematics Gateway 4G LTE and Satellite Module

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

These radio transmitters (Modular Telematics Gateway 4G LTE IC: 11137A-MA4G and Satellite Module IC: 4650A-Q9612) have been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with these devices.

PFA10877, PFA10878, PFA10879, PFA10880, PFA10881, PFA10882, PFA10883 (MTG 4G LTE High Performance Antenna)

PFA10889, PFA10890, PFA10891, PFA10896, PFA11136 (MTG 4G LTE Low Profile Antenna)

GPS / GSM / Wireless Antenna: Omnidirectional
- GPS L1: 1575 ± 2 MHz Frequency
- GLONASS: 1597.551—1605.886 MHz Frequency
- GSM 850: 824—894 MHz Frequency
- GSM 900: 880—960 MHz Frequency
- GSM 1700: 1710—1755, 2110—2170 MHz Frequency
- GSM 1800: 1710—1880 MHz Frequency
- GSM 1900: 1850—1990 MHz Frequency
- 50 Ω Required Impedance
- 26 ± 2 dB GPS L1 Maximum Permissible Gain
- Wireless 2.4: 2401—2495 MHz Frequency
- Wireless 5: 4910—5825 MHz Frequency
- IEEE802.11a/b/g/n Compliant
- Bluetooth®: 2402—2480 MHz Frequency

PF81427

Satellite Antenna
- 1616—1625.5 MHz Frequency
- 50 Ω Required Impedance
- 0 dBi Maximum Permissible Gain

RF Exposure Guidance

This equipment complies with FCC and Industry Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (8 in) between the radiator and persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC and Industry Canada multi-transmitter product procedures.

PC24260—UN—07JUN17

John Deere JDLink™

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Modular Telematics Gateway 4G LTE and Satellite Module

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (Modular Telematics Gateway 4G LTE IC: 11137A-MA4G and Satellite Module IC: 4650A-Q9612) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

PFA10877, PFA10878, PFA10879, PFA10880, PFA10881, PFA10882, PFA10883 (MTG 4G LTE High Performance Antenna)

PFA10889, PFA10890, PFA10891, PFA10896 PFA11136 (MTG 4G LTE Low Profile Antenna)

GPS/GSM/WLAN Antenna: Omnidirectional
- GPS L1: 1575 ± 2 MHz Frequency
- GLONASS: 1597.551—1605.886 Frequency
- GSM 850: 824—894 MHz Frequency
- GSM 900: 880—960 MHz Frequency
- GSM 1700: 1710—1755, 2110—2170 MHz Frequency
- GSM 1800: 1710—1880 MHz Frequency
- GSM 1900: 1850—1990 MHz Frequency
- 50 Ω Required Impedance
- 26 ± 2 dB GPS L1 Maximum Permissible Gain
- WLAN 2.4: 2401—2495 MHz Frequency
- WLAN 5: 4910—5825 MHz Frequency
- IEEE802.11a/b/g/n Compliant
- Bluetooth®: 2402—2480 MHz Frequency

PF81427

Iridium Satellite Antenna
- 1616 – 1625.5 MHz Frequency
- 50 Ohms Required Impedance
- 0 dBi Maximum Permissible Gain

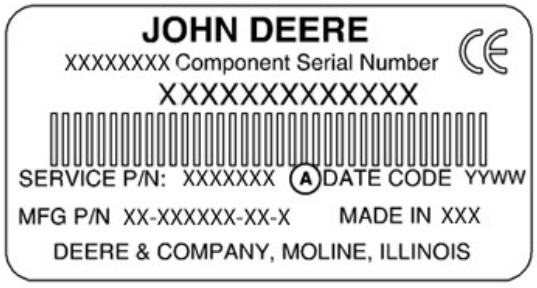
RF Exposure Guidance

Cet équipement est conforme aux normes FCC et les limites d'exposition aux rayonnements Industrie Canada énoncées pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm (8 in) entre le radiateur et les personnes. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec une autre antenne ou un autre émetteur, sauf en conformité avec la FCC et Industrie Canada Procédures de produits multi-émetteurs.

PC24261—UN—07JUN17
AE77568,000035D-19-23MAY17

Identify Date Code

Modular Telematics Gateway 4G LTE



PC17568—UN—16AUG13

Product Label Example

A—Date Code (Date of Manufacture)

Use the date code (A) on the product label to identify the date of manufacture.



PC17574—UN—16AUG13

Date Code Example

B—Last Two Numbers of Year of Manufacture
C—Week Number of Calendar Year of Manufacture

“YY" (B) identifies the last two numbers of the year of manufacture; “WW” (C) identifies the week number of calendar year of manufacture.

NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: **11** = 20**11** **12** = 20**12** **13** = 20**13**
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03...53

CZ76372,000078C-19-22FEB17

Identify Date Code

Ethernet Switch

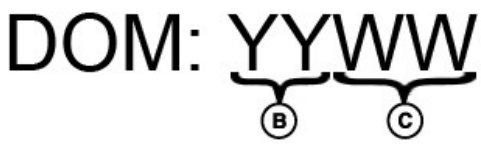


PC19597—UN—29APR14

Product Label Example

A—DOM (Date Code)

Use the date code on the product label to identify the date of manufacture (DOM) (A).



PC19671—UN—23MAY14

Date Code Example

B—Last Two Numbers of Year of Manufacture
C—Week Number of Calendar Year of Manufacture

“YY" (B) identifies the last two numbers of the year of manufacture; “WW” (C) identifies the week number of calendar year of manufacture.

NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: **13** = 20**13** **14** = 20**14** **15** = 20**15**
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03...53

CZ76372,000078D-19-22FEB17

Toxic or Hazardous Substances or Elements Disclosure

The Environment Friendly Use Period (EFUP) marked on this product refers to the safety period of time in which the product is used under the conditions specified in the product instructions without leakage of noxious and harmful substances. The EFUP relates only to the environmental impact of the product in normal use, it does not imply product life.	 PC15290—UN—31OCT12
In accordance with the requirements specified in SJ/T11364-2006, all Modular Telematics Gateways 4G LTE (MTG 4G LTE) sold in the People's Republic of China are marked with the following pollution control logo.	

Part Name	Toxic or hazardous substances and elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated dephenyl ethers (PBDE)
Cover	O	O	O	O	O	O
Enclosure	O	O	O	O	O	O
Plate	O	O	O	O	O	O
Plug	O	O	O	O	O	O
PCBA	X	O	O	O	O	O
Hardware	O	O	O	O	O	O
Cap	O	O	O	O	O	O
SIM Plug	O	O	O	O	O	O

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.
X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirement in SJ/T11363-2006.

CZ76372,0000789-19-16FEB17

CCC A Class Statement

Modular Telematics Gateway 4G LTE

NOTE: This is a Class A product. In a Domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

AE77568,000018B-19-23FEB16

Brazil—Declaration of Conformity

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

PC24077—UN—10APR17
AL70325,0000430-19-11APR17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product: John Deere Modular Telematics Gateway 4G LTE

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Radio and Telecommunications Terminal Equipment Directive (R&TTE)	1999/5/EC	Annex III
Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS)	2011/65/EU	Article 7 of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN 55022:2010 + AC:2011
EN 55032:2012 + AC:2013
EN 55024:2010
EN 300 328 V1.9.1
EN 301 893 V1.8.1
ETSI EN 301 489-1 V1.9.2
ETSI EN 301 489-3 V1.6.1
ETSI EN 301 489-7 V1.3.1
ETSI EN 301 489-17 V2.2.1
ETSI EN 301 489-24 V1.5.1
ETSI EN 301 511-1 V9.0.2
ETSI EN 301 908-1 V5.2.1
EN 60950-1 + A12 +Am 1:2010 + Am 2:2013
EN 60950-22:2006 + Am 2009

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa USA
Date of Declaration: 11 July 2016
Manufacturing Unit: John Deere Intelligent Solutions Group

Name: Daniel Pflieger
Title: Global Engineering Manager, Infrastructure

CE

DXCE01—UN—28APR09
HC94949,0000B06-19-22FEB17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product: GSM LTE HP, GSM LTE LP

Model(s): PFA10877, PFA10878, PFA10879, PFA10880, PFA10881, PFA10882, PFA10883, PFA10889, PFA10890, PFA10891, PFA10896, and PFA11136

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Radio and Telecommunications Terminal Equipment Directive (R&TTE)	1999/5/EC	Annex III
Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS)	2011/65/EU	Article 7 of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN 55022:2010 + AC:2011
EN 55032:2012 + AC:2013
EN 55024:2010
ETSI EN 301 489-1 V1.9.2
ETSI EN 301 489-3 V1.6.1
ETSI EN 301 489-7 V1.3.1
ETSI EN 301 489-17 V2.2.1
ETSI EN 301 489-24 V1.5.1
EN 60950-1 + A12 + Am 1:2010 + Am 2:2013
EN 60950-22:2006 + Am 2009

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa USA
Date of Declaration: 11 July 2016
Manufacturing Unit: John Deere Intelligent Solutions Group

Name: Daniel Pflieger
Title: Global Engineering Manager, Infrastructure

CE

DXCE01—UN—28APR09
AE77568,0000359-19-07JUN17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product: Satellite Module

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Radio and Telecommunications Terminal Equipment Directive (R&TTE)	1999/5/EC	Annex III

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Kaiserslautern, Germany
Date of Declaration: 10 August 2010
Manufacturing Unit: Phoenix International Corporation

Name: Juergen Nissen
Title: Engineering Manager, Ag Management Solutions

CE

DXCE01—UN—28APR09
HC94949,0000B0B-19-22FEB17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product: John Deere Ethernet Switch

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Electromagnetic Compatible Directive	2004/108/EC	Annex II of the Directive

Name and address of the person in the European Community authorized to compile the technical construction file:
Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa USA
Date of Declaration: 09 May 2012
Manufacturing Unit: John Deere Intelligent Solutions Group

Name: Michael R. Moody
Title: Infrastructure Development Manager, John Deere Intelligent Solutions Group

HC94949,0000B0C-19-22FEB17

CE

DXCE01—UN—28APR09

Customs Union–EAC

Customs Unions - EAC

Information for products that bear conformity mark of the Customs Union member states

Manufacturer: Deere & Company
Moline, Illinois U.S.A

Model: Modular Telematics Gateway 4G LTE (JDMTG 4G LTE)
Made in USA

Name and address of the authorized representative in the Customs Union of Russia, Belarus and Kazakhstan:
Limited Liability Company "John Deere Rus"

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye "Warehouse 104," Building 2.

For technical support, please contact your dealer.

EAC

PC22192—UN—24FEB16

Customs Unions - EAC

Information for products that bear conformity mark of the Customs Union member states

Manufacturer: Belden Inc.
1 North Brentwood Boulevard
Floor 15
St. Louis, Missouri 63105
USA

Model: Ethernet Switch OCTOPUS 5TX-EEC
Made in Germany

Name and address of the authorized representative in the Customs Union of Russia, Belarus and Kazakhstan:
Limited Liability Company "John Deere Rus"

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye "Warehouse 104," Building 2.

For technical support, please contact your dealer.

EAC

PC20930—UN—11MAR15

Таможенный союз – EAC

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов Таможенного союза

Производитель: Компания Deere & Company
г. Молин, Штат Иллинойс, США

модель: Модульный телематический шлюз 4G (JDMTG 4G)
Сделано в США.

Наименование и адрес уполномоченного представителя на территории Таможенного союза России, Белоруссии и Казахстана: Общество с ограниченной ответственностью "Джон Дир Русь"

Адрес:
142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.

EAC

PC22193—UN—24FEB16

Таможенный союз — EAC

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов Таможенного союза

Производитель: Belden Inc.
Север Брентвуд Бульвар 1,
15 этаж
г. Сент Луис, штат Миссури,
США 63105

Модель: Ethernet Switch OCTOPUS 5TX-EEC
Сделано в Германии

Наименование и адрес уполномоченного представителя на территории Таможенного союза России, Белоруссии и Казахстана: Общество с ограниченной ответственностью "Джон Дир Русь"

Адрес:
142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.

EAC

PC20931—UN—16MAR15

Кеден одағы–Еуразия одағы

Кеден Одағы мүшелерінің ережелеріне сәйкестік белгісі бар өнімдер туралы ақпарат

Өндіруші: Deere & Company
Молин, Иллинойс, АҚШ

Үлгі: Модульдік телематикалық шлюз 4G (JDMTG 4G)

АҚШ-та жасалған

Ресей, Беларусь және Қазақстан кеден одағындағы авторластырылған өкілінің атауы және мекенжайы:
Жауапкершілігі Шектеулі Серіктестік
"John Deere Rus"

Мекенжайы:
142050, Ресей, Мәскеу облысы, Домодедово қаласы, Белые столбы ықшам ауданы, "Склады 104," қожалығы, 2 үй.

Техникалық қолдау алу үшін дилеріңізбен хабарласыңыз.

EAC

PC22194—UN—24FEB16

Кеден одағы— Еуразия одағы

Кеден Одағы мүшелерінің ережелеріне сәйкестік белгісі бар өнімдер туралы ақпарат

Өндіруші: Belden Inc.
1 North Brentwood Boulevard
Floor 15
St. Louis, Missouri 63105
АҚШ

Үлгі: OCTOPUS 5TX-EEC Ethernet қосқышы

Германияда жасалған

Ресей, Беларусь және Қазақстан кеден одағындағы өкілеттенген өкілінің аты және мекенжайы: "John Deere Rus" жауапкершілігі шектеулі серіктестігі

Мекенжайы: 142050, Ресей, Мәскеу облысы, Домодедово қаласы, Белые столбы ықшам ауданы, “Склады 104,” қожалығы, 2 үй.

Техникалық қолдау алу үшін дилеріңізбен хабарласыңыз.

EAC

PC20932—UN—16MAR15
CZ76372,000078B-19-17FEB17

Federal Communications Commission (FCC)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This device must be operated as supplied by John Deere Ag Management Solutions. Any changes or modifications made to this device without the express written approval of John Deere Ag Management Solutions may void the user’s authority to operate this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful

interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, no guarantee shall be made that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

HC94949,000081F-19-21JUL15

Toxic or Hazardous Substances or Elements Disclosure

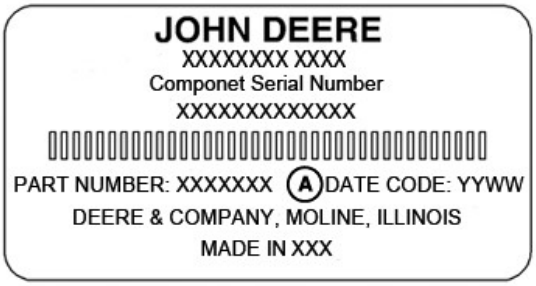
The Environment Friendly Use Period (EFUP) marked on this product refers to the safety period of time in which the product is used under the conditions specified in the product instructions without leakage of noxious and harmful substances. The EFUP relates only to the environmental impact of the product in normal use, it does not imply product life.	 PC15290—UN—31OCT12

Part Name	Toxic or hazardous substances and elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated dephenyl ethers (PBDE)
Printed Circuit Board Assembly (PCBA)	X	O	O	O	O	O
Harness	O	O	O	O	O	O
Housing	O	O	O	O	O	O
Supports	O	O	O	O	O	O
Fasteners	X	O	O	O	O	O

O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.
X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials for this part is above the limit requirement in SJ/T11363-2006.

CZ76372,0000785-19-07FEB17

Identify Date Code



PC17678—UN—18SEP13

Product Label Example

A—Date Code (Date of Manufacture)

Use the date code (A) on the product label to identify the date of manufacture.



PC17574—UN—16AUG13

Date Code Example

B—Last Two Numbers of Year of Manufacture
C—Week Number of Calendar Year of Manufacture

“YY" (B) identifies the last two numbers of the year of

manufacture; “WW” (C) identifies the week number of calendar year of manufacture.

NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: **11** = 20**11** **12** = 20**12** **13** = 20**13**
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03...53

CZ76372,0000786-19-07FEB17

Eurasian Economic Union–EAC

Eurasian Economic Union—EAC

Information for products that bear conformity mark of the Eurasian Economic Union member states

Manufacturer: Deere & Company
Moline, Illinois U.S.A.

Model: StarFire 6000
Made in USA

Name and address of the authorized representative in the Eurasian Economic Union:
Limited Liability Company “John Deere Rus”

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye “Warehouse 104,” Building 2.

For technical support, please contact your dealer.

EAC

PC23219—UN—20OCT16

Евразийский экономический союз-(ЕАЭС)

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов Евразийского экономического союза (ЕАЭС)

Производитель: Компания Deere & Company
г. Молин, Штат Иллинойс, США

модель: Приемник StarFire 6000
Сделано в США.

Наименование и адрес уполномоченного представителя на территории Евразийского экономического союза (ЕАЭС): Общество с ограниченной ответственностью "Джон Дир Русь"

Адрес: 142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.

EAC

PC23218—UN—02DEC16

Еуразиялық экономикалық одақ - ЕАС

Еуразиялық экономикалық одаққа мүше елдердің сәйкестік белгісі бар өнімдер туралы ақпарат

Өндіруші: Deere & Company
Moline, Illinois U.S.A

Моделі: StarFire 6000
АҚШ-та жасалған

Еуразиялық экономикалық одақтағы заңды өкілдің аты мен мекенжайы:
"John Deere Rus" жауапкершілігі шектеулі серіктестігі

Мекенжайы: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye "Warehouse 104," Building 2.

Техникалық қолдау алу үшін дилеріңізбен хабарласыңыз.

EAC

PC23302—UN—08NOV16
HC94949,0000BB6-19-19JUN17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that
Product: John Deere StarFire 6000

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Radio and Telecommunications Terminal Equipment Directive (R & TTE)	1999/5/EC	Annex II of the Directive
Restriction of Hazardous Substances (RoHS)	2011/65/EU	Article 7 of Directive

The product is in conformity with the following standards and/or other normative documents:

EN 301 489-1 V1.9.2
EN 301 489-3 V1.6.1
EN 55022:2010
EN 55024:2010
EN 300 440-2 V1.4.1
EN 60950-1:2006
EN 60950-22:2008

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Torrance, CA U.S.A.
Date of Declaration: 21 February 2017
Manufacturing Unit: John Deere Electronic Solutions, Torrance, CA U.S.A.

Name: Rick Grefsrud
Title: GNSS Engineering Manager

HC94949,0000AF0-19-19JUN17

CE

DXCE01—UN—28APR09

Thailand—Declaration of Conformity

เครื่องโทรคมนาคมและอุปกรณ์นี มีความสอดคล้องตามข้อกาหนดของ กทช./กสทช.

PC22534—UN—20APR16
AE77568,00001CC-19-11APR17

Vietnam–Declaration of Conformity

This product complies with Circular 30/2011/TT-BCT

regulating the allowable limits for hazardous substances in electronic and electric products.

HC94949,0000BAE-19-13JUN17

Information to User

This device must be operated as supplied by John Deere Ag Management Solutions. Any changes or modifications made to these devices without the express written approval of John Deere Ag Management Solutions may void the user's authority to operate this device.

CZ76372,00003A2-19-12DEC17

United States—Federal Communications Commission (FCC) Notifications to User

This device complies with FCC Part 15. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Radio Frequency (RF) Exposure Guidance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (8 in.) between the radiator and persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

JS56696,0000C41-19-10DEC14

Canada—Industry Canada Notifications to User

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitters (IC: 6545A-XR2) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with these devices.

PFP11422
Omnidirectional external antenna
5 dBi Gain
50 ohms impedance

RF Exposure Guidance

This equipment complies with FCC and Industry Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm (8 in.) between the radiator and persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC and Industry Canada multi-transmitter product procedures.

PC20525—UN—10DEC14

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent émetteur radio (IC: 6545A-XR2) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

PFP11422
Antenne externe omnidirectionnelle
5 dBi Gain
Impédance de 50 ohms

Exposition aux radiofréquences orientation

Cet équipement est conforme aux normes FCC et les limites d'exposition aux rayonnements Industrie Canada énoncées pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm (8 in.) entre le radiateur et les personnes. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec une autre antenne ou un autre émetteur, sauf en conformité avec la FCC et Industrie Canada Procédures de produits multi-émetteurs.

PC20526—UN—10DEC14
JS56696,0000C42-19-10DEC14

European Community

This equipment operates in the 2402 to 2472 MHz frequency range. Check with local authorities for the latest status of national regulations for the 2.4 GHz wireless bands. National regulations may require that operations be limited to portions of the frequency ranges identified above.

HC94949,000015B-19-23OCT12

EC Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that

Product: John Deere Machine Communication Radio

fulfills all relevant provisions and essential requirements of the following directives:

Directive	Number	Certification Method
Radio and Telecommunications Terminal Equipment Directive (R&TTE)	1999/5/EC	Annex III

The product is in conformity with the following standards and/or other normative documents:

ETSI EN 300 328 V1.8.1
ETSI EN 301 489-3 V4.1.1
ETSI EN 301 489-1 V1.8.1
ETSI EN60950-1 Second Ed.
ISO 14982:2009
1999/519/EC

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center (Zentralfunktionen)
John Deere Strasse 70
Mannheim, Germany D-68163

Place of declaration: Urbandale, Iowa
Date of declaration: 10 November 2014

Name: Ryan White
Title: Development Manager Communication & Automation
Manufacturing Unit: John Deere Intelligent Solutions Group

CE

DXCE01—UN—28APR09
SF04007,0000760-19-18DEC14

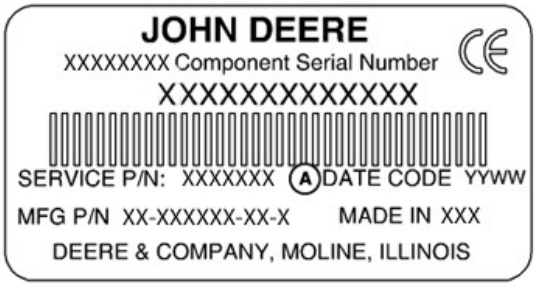


PC17574—UN—16AUG13

Date Code Example

A—Date Code (Date of Manufacture)
B—Last Two Numbers of Year of Manufacture
C—Week Number of Calendar Year of Manufacture

Identify Date Code



PC17568—UN—16AUG13

Product Label Example

Use the date code (A) on the product label to identify the date of manufacture. “YY" (B) identifies the last two numbers of the year of manufacture; “WW” (C) identifies the week number of calendar year of manufacture.

NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: **11** = 20**11** **12** = 20**12** **13** = 20**13**
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03...53

HC94949,0000342-19-23AUG13

Customs Union—EAC

Customs Unions—EAC

Information for products that bear conformity mark of the Customs Union member states

Manufacturer: Deere & Company
Moline, Illinois U.S.A.

Model: Machine Communication Radio
Made in USA

Name and address of the authorized representative in the Customs Union of Russia, Belarus, and Kazakhstan: Limited Liability Company “John Deere Rus”

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye “Warehouse 104,” Building 2.

For technical support, please contact your dealer.

EAC

PC20578—UN—15DEC14

Таможенный союз—EAC

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов Таможенного союза

Производитель: Компания Deere & Company
г. Молин, Штат Иллинойс, США

модель: Радиомодуль John Deere для машин
Сделано в США.

Наименование и адрес уполномоченного представителя на территории Таможенного союза России, Белоруссии и Казахстана: Общество с ограниченной ответственностью "Джон Дир Русь”

Адрес: 142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.

EAC

PC20252—UN—13NOV14

Кеден одағы—Еуразия одағы

Кеден Одағы мүшелерінің ережелеріне сәйкестік белгісі бар өнімдер туралы ақпарат

Өндіруші: Deere & Company
Молин, Иллинойс, АҚШ

Үлгі: Машинаның байланыс радиосы
АҚШ-та жасалған

Ресей, Беларусь және Қазақстан кеден одағындағы авторластырылған өкілінің атауы және мекенжайы:
Жауапкершілігі Шектеулі Серіктестік "John Deere Rus"

Мекенжайы: 142050, Ресей, Мәскеу облысы, Домодедово қаласы, Белые столбы ықшам ауданы, "Склады 104," қожалығы, 2 үй.

Техникалық қолдау алу үшін дилеріңізбен хабарласыңыз.

EAC

PC20245—UN—13NOV14
RW00482,0000443-19-15DEC14

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product: Wireless Data Server

fulfills all relevant provisions and essential requirements of the following directive(s):

Directive	Number	Certification Method
Radio and Telecommunications Terminal Equipment Directive (R&TTE)	1999/5/EC	Annex III of the Directive

The product is in conformity with the following standards and/or other normative documents:

IEC 60950-1: 2005 (Second Edition) + Am 1:2009 + Am 2:2013
IEC 60950-22:2005 (First Edition)
EN ISO 14982:2009
EN 55022: 2010
EN 55024: 2010
EN 300 328 v1.8.1 (2012-06)
ETSI EN 301 489-1 V1.9.2
ETSI EN 301 489-17 V2.2.1

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
Mannheim, Germany D-68163

This declaration of conformity is issued under the sole responsibility of the manufacturer.

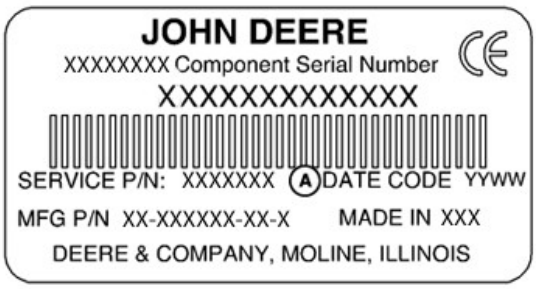
Place of declaration: Urbandale, Iowa, USA
Date of declaration: 15 April 2016

Name: Aaron M. Senneff
Title: Manager–Software Development

CE

DXCE01—UN—28APR09
HC94949,00009C7-19-29MAY18

Identify Date Code



PC17568—UN—16AUG13
Product Label Example



PC17574—UN—16AUG13
Date Code Example

A—Date Code (Date of Manufacture)
B—Last Two Numbers of Year of Manufacture
C—Week Number of Calendar Year of Manufacture

Use the date code (A) on the product label to identify the date of manufacture. “YY" (B) identifies the last two numbers of the year of manufacture; “WW” (C) identifies the week number of calendar year of manufacture.

NOTE: The week number of manufacture ranges between 01-53.

Date Code		
YY	Last Two Numbers of Year of Manufacture	Example: **11** = 20**11** **12** = 20**12** **13** = 20**13**
WW	Week Number of Calendar Year of Manufacture	Example: 01, 02, 03...53

HC94949,0000342-19-23AUG13

Customs Union–EAC

Customs Unions—EAC

Information for products that bear conformity mark of the Customs Union member states

Manufacturer: Deere & Company
Moline, Illinois U.S.A.

Model: Wireless Data Server (WDS)
Made in USA

Name and address of the authorized representative in the Customs Union of Russia, Belarus, and Kazakhstan:
Limited Liability Company “John Deere Rus”

Address: 142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye “Warehouse 104,” Building 2.

For technical support, please contact your dealer.

EAC

PC22579—UN—28APR16

Таможенный союз—EAC

Информация об изделиях, которые имеют знак соответствия требованиям технических регламентов Таможенного союза

Производитель: Компания Deere & Company
г. Молин, Штат Иллинойс, США

модель: Блок беспроводной передачи данных (WDS)
Сделано в США.

Наименование и адрес уполномоченного представителя на территории Таможенного союза России, Белоруссии и Казахстана: Общество с ограниченной ответственностью "Джон Дир Русь"

Адрес: 142050, Россия, Московская область, Домодедовский район, г. Домодедово, микрорайон "Белые столбы", владение "Склады 104," стр. 2.

Для получения технической поддержки обращайтесь к дилеру, обслуживающему вашу организацию.

EAC

PC22575—UN—28APR16

Кеден одағы—Еуразия одағы

Кеден Одағы мүшелерінің ережелеріне сәйкестік белгісі бар өнімдер туралы ақпарат

Өндіруші: Deere & Company
Молин, Иллинойс, АҚШ

Үлгі: сымсыз дерек серверіне (WDS)
Мексикада жасалған

Ресей, Беларусь және Қазақстан кеден одағындағы авторластырылған өкілінің атауы және мекенжайы: Жауапкершілігі Шектеулі Серіктестік "John Deere Rus"

Мекенжайы: 142050, Ресей, Мәскеу облысы, Домодедово қаласы, Белые столбы ықшам ауданы, "Склады 104," қожалығы, 2 үй.

Техникалық қолдау алу үшін дилеріңізбен хабарласыңыз.

EAC

PC22576—UN—28APR16
HC94949,00009C9-19-28APR16

EC Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The person named below declares that
Product: AutoTrac™ RowSense™
fulfills all relevant provisions and essential requirements of the following directives:

Directive	Number	Certification Method
Electromagnetic Compatibility Directive	2004/108/EC	Self certified, per Annex II of the Directive

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
Deere & Company European Office
John Deere Strasse 70
Mannheim, Germany D-68163
EUConformity@JohnDeere.com

Place of declaration: Kaiserslautern, Germany

Date of declaration: 29 July 2011

Name: Aaron Senneff

Title: Engineering Manager, John Deere Intelligent Solutions Group

Manufacturing unit: John Deere Intelligent Solutions Group

CE

DXCE01—UN—28APR09
BA31779,000024E-19-05AUG11

Generation 4 CommandCenter™ 4600 Processor Wi-Fi® Capabilities

The CommandCenter™ 4600 processor contains a non-enabled wireless (Wi-Fi®) transmitter. Hardware is present to enable future functionality.

Federal Communications Commission Part 15.21 Statement:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

DX,PC,INTRO,WIFI-19-10MAY16

CommandCenter is a trademark of Deere & Company

Wi-Fi is a registered trademark of Wi-Fi Alliance.

Federal Communications Commission and Industry Canada Notification

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RF Exposure Guidance: This equipment complies with FCC and Industry Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 2.5 cm (1 in.) between the radiator and persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC and Industry Canada multi-transmitter product procedures.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Exposure orientation: Cet équipement est conforme aux normes FCC et les limites d'exposition aux rayonnements Industrie Canada énoncées pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 2,5 cm (1 in.) entre le radiateur et les personnes. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec une autre antenne ou un autre émetteur, sauf en conformité avec la FCC et Industrie Canada Procédures de produits multi-émetteurs.

PC17329—UN—24OCT13
DX,PC,INTRO,FCC-19-17DEC15

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product Name: 4600 Processor - Multi-Functional Controller, Integrated Premium Server (IPVS), RE338096
Model(s): 4600

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Radio and Telecommunications Terminal Equipment Directive (R & TT)	1995/5/EC	Annex III of the Directive
Electromagnetic Compatibility Directive	2004/108/EC	
Low Voltage	2006/95/EC	

The product is in conformity with the following standards and/or other normative documents:

IEC 60950-1:2005 +Am1:2009
EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011
EN 62311: January 2008
EN 301 489-17 V2.2.1
EN 300 328 V1.8.1

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Fargo, North Dakota, USA
Date of Declaration: 14 April 2014

Name: Orrin West
Title: Staff Engineer

CE

DXCE01—UN—28APR09
AL70325,0000440-19-25APR17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product Name: 4600 Premium Server
Model(s): 4600

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Electromagnetic Compatibility Directive	EMC 2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN ISO 14982:2009 UN-ECE R10 Rev 5

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa, USA
Date of Declaration: 31 October 2016

Name: Scott Torgerson
Title: Delivery Manager - Hardware Infrastructure

CE

DXCE01—UN—28APR09
AL70325,000043B-19-25APR17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product Name: John Deere 7” Display
Model(s): John Deere 7” Display, JD 7” Display, PFA10759

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Electromagnetic Compatibility Directive	2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN ISO 14982:2009 UN-ECE R10 Rev 5

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa, USA
Date of Declaration: 31 October 2016

Name: Scott Torgerson
Title: Delivery Manager - Hardware Infrastructure

CE

DXCE01—UN—28APR09
AL70325,000043D-19-25APR17

EU Declaration of Conformity

Deere & Company
Moline, Illinois U.S.A.

The undersigned hereby declares that:

Product Name: John Deere 10.4” Monitor
Model(s): 10.4” Display, PFA10760, Display JD 10.4” Monitor, G410

fulfill(s) all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Electromagnetic Compatibility Directive	2014/30/EU	Annex II of the Directive

The product is in conformity with the following standards and/or other normative documents:

EN ISO 14982:2009 UN-ECE R10 Rev 5

Name and address of the person in the European Community authorized to compile the technical construction file:

Brigitte Birk
John Deere GmbH & Co. KG
Mannheim Regional Center
John Deere Strasse 70
D-68163 Mannheim, Germany

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Place of Declaration: Urbandale, Iowa, USA
Date of Declaration: 07 March 2017

Name: Daniel Pflieger
Title: Engineering Manager - Embedded Solutions

CE

DXCE01—UN—28APR09
AL70325,000043A-19-25APR17

StarFire™ 6000 Receiver (If Equipped)

StarFire™ 6000 Receiver Theory of Operation

StarFire™ 6000 Receiver is a global navigation satellite system (GNSS) receiver with integrated 3-axis terrain compensation. StarFire™ 6000 Receiver provides different levels of accuracy that can be upgraded. As farming needs change, higher levels of accuracy can be used without needing to buy a new receiver.

A terrain compensation module (TCM) is integrated into the receiver. The TCM is a navigational aid used with the receiver to enhance machine position and course data. TCM corrects for machine dynamics, such as roll and pitch on side slopes, rough terrain, or varying soil conditions.

The StarFire™ network is made up of a global network of reference stations and seven differential correction satellites that provide corrections to StarFire™ Receivers. There are three signal levels: SF1, SF3, and real-time kinematics (RTK). SF3 provides in-season repeatability as long as the Accuracy Indicator shows 100%. It may take 30 min for the Accuracy Indicator to reach 100% for 3 cm (1.2 in) accuracy. StarFire™ 6000 Receiver views and monitors up to three differential correction satellites. If the current satellite is blocked from view, the receiver monitors information from the other satellites and selects the one with the best performance. The satellite performance is checked several times a minute before a switch is made to ensure the best possible accuracy.

The receiver can track global positioning system (GPS) and global navigation satellite system (GLONASS) signals. The receiver has a USB port for faster software updates and on-board event data logging.

RTK-X Theory of Operation

When a rover loses RTK corrections from a base station, the signal switches to RTX-X if certain requirements are met. The RTK-X solution is calculated by comparing the difference between the RTK signal from the base station and the SF3 signal at the rover. This calculation creates an offset vector that is used to correct the SF3 signal.

Offset vectors vary between base stations. If a rover connects to a different base from its original saved offset vector, the rover loses its saved offset vector and a new offset vector is calculated. Once the offset vector is saved, RTK-X is available for up to 14 days if RTK signal is lost. After 14 days, the position mode transitions to WAAS, EGNOS, or 3D-None, unless the rover reconnects to a base station. Once connected to a base station and the offset vector is saved, the 14-day timer resets and RTK-X is available for another 14 days.

NOTE: RTK-X operation requires that the rover is operating under open skies and receiving StarFire™ corrections.

NOTE: The following information requires the latest StarFire™ software.

Using a StarFire™ 6000 Base Station

Once a StarFire™ 6000 base station has been running with StarFire™ corrections for more than 1 hour, StarFire™ 3000 or StarFire™ 6000 rovers can save offset vectors once they have been connected to the base station for approximately 2 minutes.

Using a StarFire™ 3000 or Mobile RTK Base Station

Once a StarFire™ 3000 base station has been running with StarFire™ corrections for more than 1 hour, StarFire™ 6000 rovers can save offset vectors once they have been connected to the StarFire™ 3000 or Mobile RTK base station for approximately 45 minutes.

RW00482,00006D5-19-05JUN18

Display Compatibility

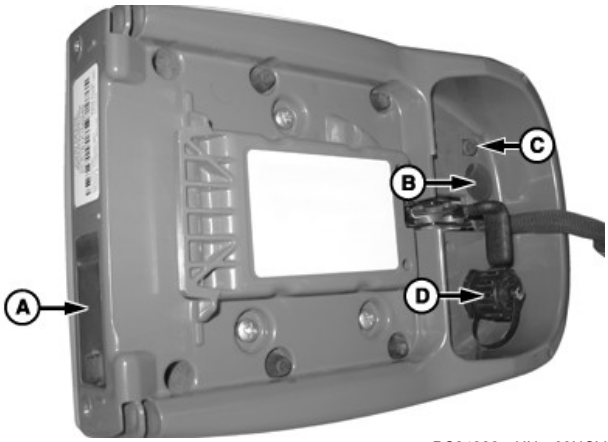
NOTE: StarFire™ 6000 Receiver is not supported on the Original GreenStar™ Display.

The StarFire™ 6000 Receiver is supported on the following John Deere displays:

- GreenStar™ 2 1800 Display
- GreenStar™ 3 2630 Display
- GreenStar™ 3 CommandCenter™
- 4100 CommandCenter™
- 4600 CommandCenter™
- 4640 Display (Australia, Canada, New Zealand, and U.S. only)

HC94949,0000BAB-19-22JUN17

StarFire™ 6000 Receiver Dust Protection



PC24822—UN—03NOV17

Dust Protection

StarFire is a trademark of Deere & Company

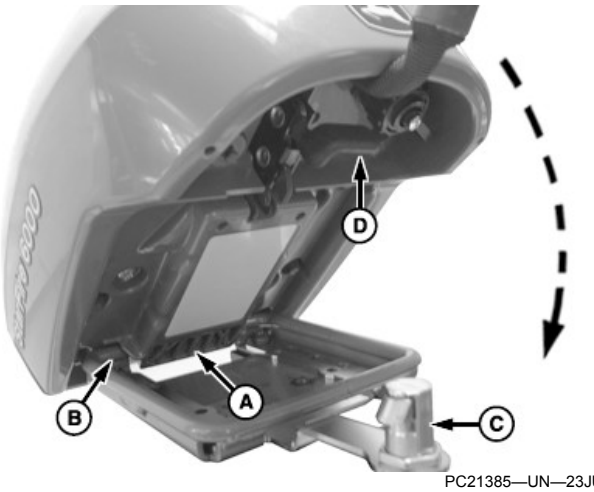
GreenStar is a trademark of Deere & Company
CommandCenter is a trademark of Deere & Company

A—RTK Access Port Dust Cover
B—Rubber Plug (Optional Lock)
C—Rubber Plug
D—USB Port Dust Cap

Always keep dust cover (A), rubber plugs (B and C), and dust cap (D) on all openings and connectors not in use.

HC94949,0000C58-19-13NOV17

Install StarFire™ 6000 Receiver



PC21385—UN—23JUL15

Install Receiver

A—Rear Hook
B—Pivot Bar
C—Optional Lock
D—Release Lever

1. Slide rear hook (A) under pivot bar (B).
2. Pull receiver shroud down until latch locks. To verify latch, pull front of shroud up.

   If using optional lock (C), pull release lever (D) to unlatch, and pull up on front of shroud to ensure lock is engaged.



PC24823—UN—11OCT17

A—12-Pin Connector

3. Connect receiver harness to 12-pin connector (A).

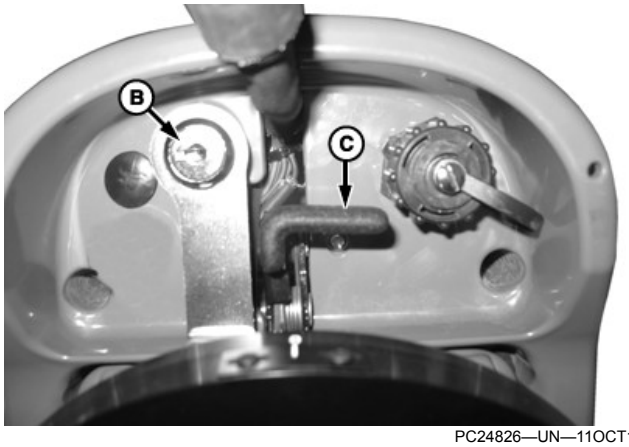
HC94949,0000C59-19-13NOV17

Remove StarFire™ 6000 Receiver



PC24824—UN—11OCT17

StarFire™ 6000 Receiver



PC24826—UN—11OCT17

Unlatch StarFire™ 6000 Receiver

A—12-Pin Connector
B—Receiver Lock
C—Release Lever

1. Disconnect receiver harness from 12-pin connector (A).
2. If equipped with optional lock (B), use key to unlock receiver.
3. Pull release lever (C) to unlatch, pull up on front of shroud, and remove receiver.

HC94949,0000C5A-19-13NOV17

Navigate to StarFire™ Main Page Using GreenStar™ 2 and GreenStar™ 3 Displays



PC8663—UN—29APR15

Menu Button

1. Select Menu button.



PC21222—UN—02JUN15

StarFire™ 6000 Button

2. Select StarFire™ 6000 button.



PC21228—UN—03JUN15

StarFire™ 6000 Softkey

3. Select StarFire™ 6000 softkey.

HC94949,0000AED-19-03FEB17

Navigate to StarFire™ Main Page Using Generation 4 CommandCenter™



PC17269—UN—15JUL13

Menu Button

1. Select Menu button.
2. Select Applications tab.



PC20690—UN—19JAN15

StarFire™ Application

3. Select StarFire™ application.
4. Select receiver.

HC94949,0000AEE-19-06FEB17

Activations Tab



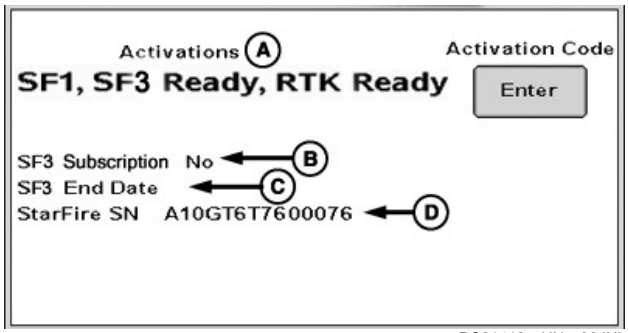
PC21311—UN—02JUL15

Activations Tab

Activations tab displays activations on receiver.

HC94949,0000839-19-24JUL15

Activations



PC21418—UN—30JUL15

A—Activations
B—SF3 Subscription
C—SF3 End Date
D—StarFire™ S.N.

Activations (A)–Displays activations on receiver.

- SF1–Activated on every receiver.
- SF3 Ready (if available)–Receiver must be SF3 Ready to license SF3 signal subscription or activate real time kinematic (RTK). An SF3 Ready upgrade can be purchased.
- RTK–Requires RTK Ready activation.

SF3 Subscription (B)–Displays status of receiver SF3 subscription.

- Yes Enabled–A valid SF3 subscription exists, and SF3 is the differential correction mode selected.
- Yes Disabled–A valid SF3 subscription exists, but SF3 is not the differential correction mode selected.
- No–No valid SF3 subscription exists or SF3 subscription has expired.

SF3 End Date (C)–Displays date when SF3 subscription expires.

StarFire™ S.N. (D)–Serial number of StarFire™ Receiver.

HC94949,0000824-19-28AUG15

StarFire is a trademark of Deere & Company

Activation and Deactivation Codes

Activation codes are required to activate SF3 Ready and RTK Ready, and license SF3 subscriptions. Deactivation codes are required to transfer all activations and license subscriptions. Separate 24-digit codes are needed when activating or transferring.

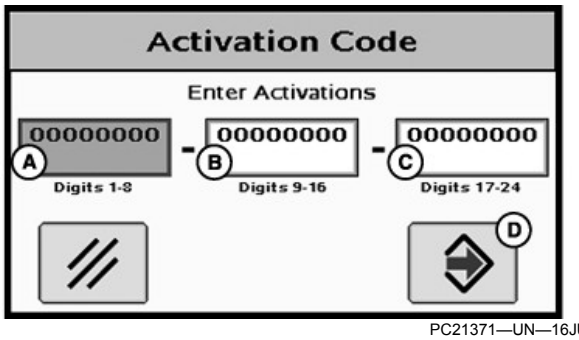
HC94949,000083A-19-30JUL15

Enter Activation Code



PC21370—UN—16JUL15

Enter Button



PC21371—UN—16JUL15

A—Digits 1–8 Input Box
B—Digits 9–16 Input Box
C—Digits 17–24 Input Box
D—Accept Button

1. Select Enter and Activation Code popup appears with three input boxes.

NOTE: If more than 8-digits are entered into an input box, "99999999" appears. Reselect box and type only 8-digits into input box.

2. Select Digits 1-8 input box (A), and enter first 8-digits of 24-digit code.
3. Select Digits 9-16 input box (B), and enter second 8-digits of 24-digit code.
4. Select Digits 17-24 input box (C), and enter last 8-digits of 24-digit code.
5. Select Accept (D).
6. A confirmation message appears when a valid 24-digit code is correctly entered.

HC94949,000083B-19-28AUG15

Activation/Subscription Status Window



PC21207—UN—28MAY15

Activation/Subscription Status Window

Displays messages when SF3 subscription has expired and provides user with option to use a grace period.

NOTE: Three 24-hour grace periods are available when subscription expires. Grace periods are provided to allow sufficient time to renew a subscription. Grace periods provide SF3 signal.

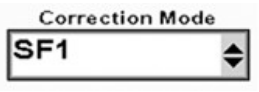
If SF1 customers would like to try SF3, they have three 24-hour grace periods to use the SF3 signal without purchasing a subscription.

Using a Grace Period

1. Select Use 1.
2. Select Yes from popup window.

HC94949,0000BAC-19-22JUN17

Receiver Correction Mode



PC21199—UN—27MAY15

Correction Mode

NOTE: Selecting Off prohibits StarFire™ Receiver from receiving SF1 and SF3 correction signals. It is still able to receive WAAS/EGNOS correction signals.

Correction Mode drop-down menu contains StarFire™ corrections that are licensed for the receiver. SF1 is always available. SF3 is available with a valid SF3 subscription (see Activations section). Real-time kinematic (RTK) is available with a valid RTK Ready activation and RTK mode selected.

(Reference RTK Operator's Manual.)

HC94949,0000C6A-19-13NOV17

Receiver Setup Tab



PC21198—UN—27MAY15

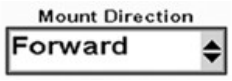
Setup Tab

Select Setup tab to set up StarFire™ 6000 Receiver.

HC94949,0000825-19-23JUL15

StarFire is a trademark of Deere & Company

Receiver Mount Direction



PC21201—UN—02JUN15

Mount Direction

NOTE: Receivers attached to tractors, sprayers, and combines are typically in forward position. Receivers attached to Gators™ may be positioned backward.

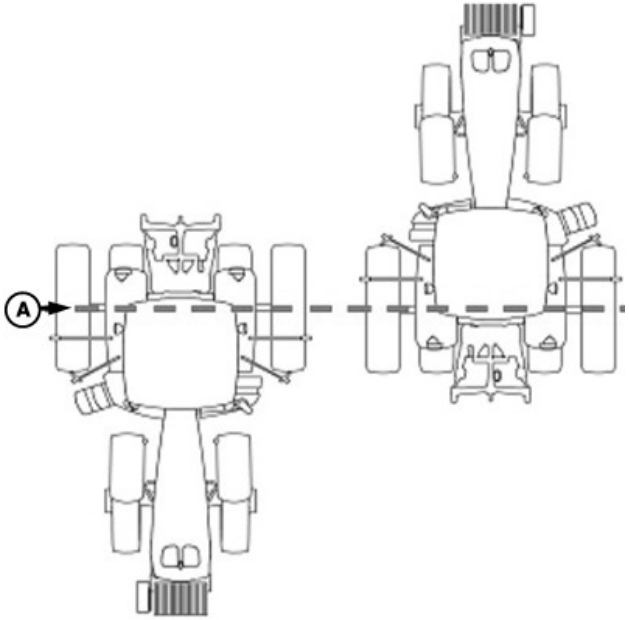
Mounting Direction defines mounting orientation of receiver. Terrain compensation module (TCM) calibration uses this setting to determine correct direction of machine roll and pitch.

Select mounting direction.

- Forward–Receiver faces machine forward travel direction.
- Backward–Receiver faces machine backward travel direction.

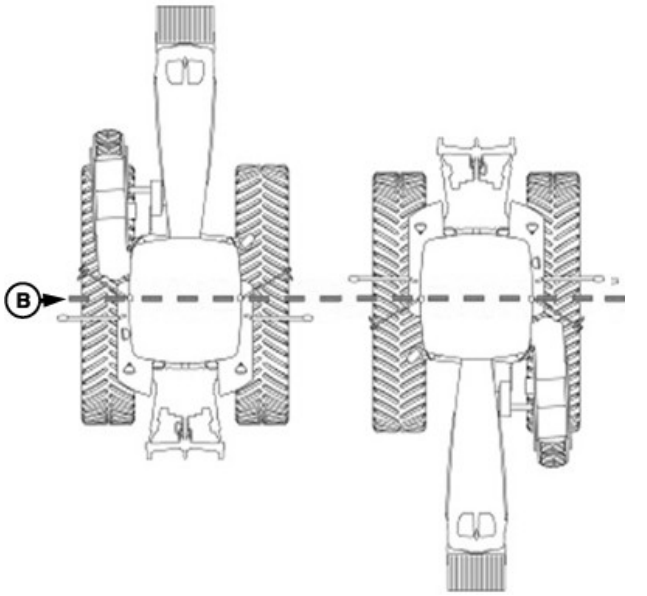
HC94949,0000828-19-28JUL15

Enter Receiver Fore/Aft



PC8278—UN—22JUN04

Floating Front Axle Machines

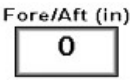


PC8277—UN—01MAY06

Fixed Axle Wheels or Tracks Machines



PC21388—UN—24JUL15



PC19989—UN—03SEP14

Fore/Aft Value Input Box

A—Pivot Point–Floating Front Axle Machines
B—Pivot Point–Fixed Axle Wheels or Tracks Machines
C—Tab

Fore/aft is the distance receiver is located from pivot point (A or B) of machine. Measure from the tabs (C) on either side of receiver.

On some AutoTrac™ equipped machines, fore/aft value is automatically detected and entered during power up.

- If fore/aft value is displayed and input box is disabled, value is automatically set and cannot be changed. Value displayed may not be exact distance receiver is located from pivot point of tractor, but best fore/aft value for AutoTrac™.
- If fore/aft value is displayed and input box is enabled, value must be entered manually.

Gator is a trademark of Deere & Company

AutoTrac is a trademark of Deere & Company

To enter fore/aft value manually:

1. Select Fore/Aft input box.
2. Enter value using numeric keypad.
3. Select Accept.

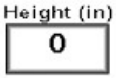
NOTE: For greatest accuracy, manually measure fore/aft distance.

HC94949,0000829-19-24JUL15

Enter Receiver Height



PC21389—UN—24JUL15



PC19991—UN—03SEP14

Height Input Box

A—Arrow

Height is measured from the ground to the arrow (A) on the front of the receiver dome.

To enter height:

1. Select Height input box.
2. Enter height using numeric keypad.
3. Select Accept.

Under or over compensation for machine roll angles occur if height is incorrectly entered during setup.

Example: A 10 degree slope with a receiver height error of 30.5 cm (12 in) results in a position offset of 5 cm (2 in) on ground.

Factory default setting is 320 cm (126 in). On some AutoTrac™ equipped machines, height value is automatically detected and entered during power up. Measure actual distance each time terrain compensation module (TCM) is installed on a different machine. This dimension is critical for proper operation of TCM and varies due to machine configuration and tire sizes. For greatest accuracy, manually measure receiver height distance.

NOTE: Actual height varies depending on tire size or tire inflation.

HC94949,000082A-19-24JUL15

Hours On After Shutdown



PC21475—UN—28AUG15

Hours On After Shutdown

A—Hours On After Shutdown Drop-Down

Hours On After Shutdown defines how long receiver remains powered up after ignition is turned off. Default and recommended setting is 3 hours. Select 0, 3, 6, 12, 24 hours from drop-down (A). If ignition is turned on within number of hours defined, receiver reestablishes full SF1 or SF3 accuracy within a few seconds (assuming it had SF1 or SF3 when ignition was turned off).

AE77568,00001D8-19-26APR16

QuickStart

QuickStart reduces amount of time required before full accuracy is achieved. If receiver has SF1 or SF3 when it is powered down, the receiver position is saved for next start up. If power is restored to receiver within time period defined under Hours On After Shutdown, QuickStart is not used since receiver power was never disrupted. If duration has exceeded Hours On After Shutdown, QuickStart is initiated. Saved position is used to bypass warm up period. QuickStart takes up to 6 min for completion.

NOTE: Do not move machine or StarFire™ Receiver until QuickStart is complete.

AE77568,00001D5-19-26APR16

AutoTrac is a trademark of Deere & Company
StarFire is a trademark of Deere & Company

Serial Port Tab



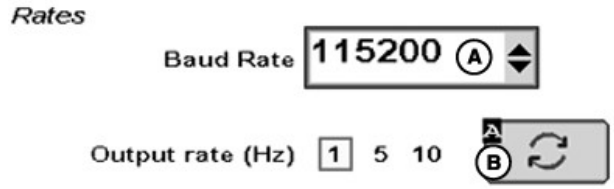
PC21208—UN—28MAY15

Serial Port Tab

To configure RS232 and National Marine Electronics Association (NMEA) message information, select Serial Port tab.

HC94949,000082D-19-23JUL15

Baud Rate and Output Rate



PC21209—UN—21JUL15

A—Baud Rate Drop-Down Menu
B—Output Rate Button

Rates

Select Baud Rate from drop-down menu (A).

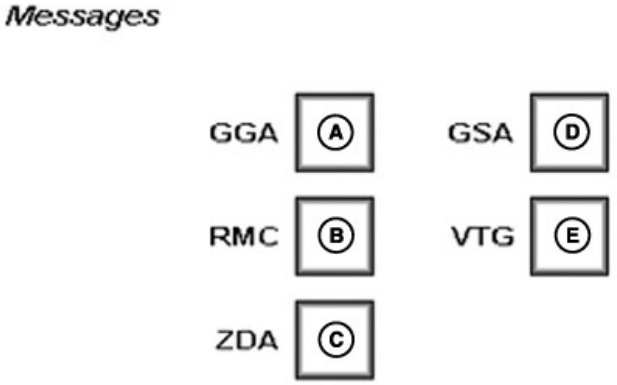
- 4800
- 9600
- 19200
- 38400
- 57600
- 115200

Use button (B) to select desired output rate.

- 1 Hz
- 5 Hz
- 10 Hz

HC94949,000082F-19-24JUL15

NMEA Messages



PC21210—UN—28MAY15

A—GGA
B—RMC
C—ZDA
D—GSA
E—VTG

Select NMEA string outputs.

NMEA Strings

NMEA has developed a specification that defines the interface between pieces of electronic equipment.

NOTE: To use NMEA data, purchase a radar harness kit.

GGA (A)–Essential fix data which provide 3D location and accuracy data.

GGA string example:

$GPGGA,123519,4807.038,N,01131.000,

E,1,08,0.9,545.4,M,46.9,M,,*47

Where:

GGA	Global Positioning System Fix Data
123519	Fix taken at 12:35:19 UTC
4807.038,N	Latitude 48 degrees 07.038' N
01131.000,E	Longitude 11 degrees 31.000' E
1	Fix quality: 0 = Invalid 1 = GPS fix (SPS) 2 = DGPS fix 3 = PPS fix 4 = Real Time Kinematic 5 = Float RTK 6 = Estimated (dead reckoning) 7 = Manual input mode 8 = Simulation mode
08	Number of satellites being tracked
0.9	Horizontal dilution of position
545.4,M	Altitude, Meters, above mean sea level
46.9,M	Height of geoid (mean sea level) above WGS84

RMC (B)–NMEA has its own version of essential GPS

PVT (position, velocity, time) data. It is called RMC, the Recommended Minimum.

RMC string example:

$GPRMC,123519,A,4807.038,N,01131.000,

E,022.4,084.4,230394,003.1,W*6A

Where:

RMC	Recommended Minimum sentence C
123519	Fix taken at 12:35:19 UTC
A	Status A=active or V=Void.
4807.038,N	Latitude 48 deg 07.038' N
01131.000,E	Longitude 11 deg 31.000' E
022.4	Speed over the ground in knots
084.4	Track angle in degrees True
230394	Date - 23rd of March 1994
003.1,W	Magnetic Variation
*6A	The checksum data, always begins with *

ZDA (C)–Data and Time

ZDA string example:

$GPZDA,hhmmss.ss,dd,mm,yyyy,xx,yy*CC

$GPZDA,201530.00,04,07,2002,00,00*6E

Where:

hhmmss	Hour, Minute, Second
dd,mm,yyy	Day, Month, Year
xx	local zone hours -13..13
yy	local zone minutes 0..59
*CC	checksum

GSA (D)–GPS dilution of precision (DOP) and active satellites. This sentence provides details on the nature of the satellite constellation fix. It includes the numbers of the satellites being used in the current solution and the DOP. DOP is an indication of the effect of satellite geometry on the accuracy of the fix. It is a unitless number where smaller is better. For 3D fixes using four satellites a 1.0 would be considered to be a perfect number. For overdetermined solutions, it is possible to see numbers below 1.0.

GSA string example:

$GPGSA,A,3,04,05,,09,12,,,24,,,,,2.5,1.3,2.1*39

Where:

GSA	Satellite status
A	Auto selection of 2D or 3D fix (M = manual)
3	3D fix - values include:: 1 = no fix 2 = 2D fix 3 = 3D fix
04,05,,09,12-,,,24,,,,,	PRNs of satellites used for fix (space for 12)
2.5	PDOP (dilution of precision)
1.3	Horizontal dilution of precision (HDOP)
2.1	Vertical dilution of precision (VDOP)
*39	The checksum data, always begins with *

VTG (E)–Velocity made good. The GPS receiver may use the LC prefix instead of GP if it is emulating Loran output.

VTG string example:

$GPVTG,054.7,T,034.4,M,005.5,N,010.2,K*33

Where:

VTG	Track made good and ground speed
054.7,T	True track made good (degrees)
034.4,M	Magnetic track made good
005.5,N	Ground speed, knots
010.2,K	Ground speed, Kilometers per hour
*33	Checksum

HC94949,0000AD5-19-08FEB17

StarFire™ 6000–Main



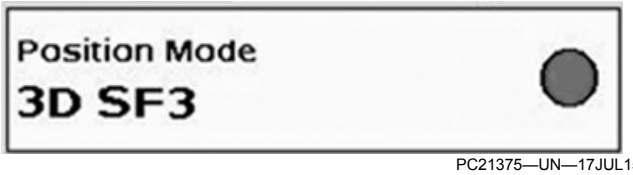
PC21476—UN—28AUG15

A—Info Tab

Info tab shows information and status of navigation and StarFire™ correction signals. Information on page can only be viewed.

HC94949,0000833-19-28AUG15

Receiver Position Mode



PC21375—UN—17JUL15

Position Mode

Position Mode indicates whether receiver is calculating a 3-D position, 2-D position, or no position. It also shows status of StarFire™ signal:

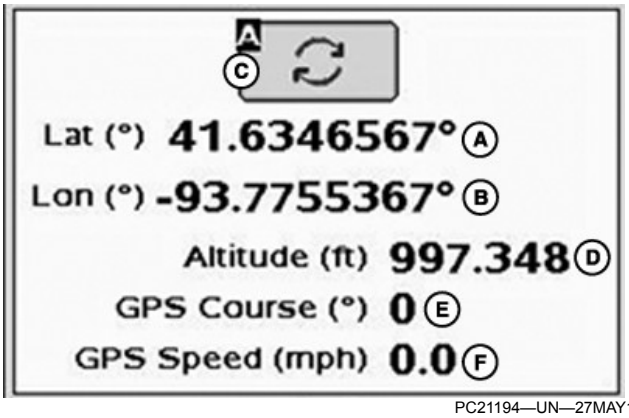
- SF1

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- SF3
- Real time kinematic (RTK)
- RTK Extend™ (RTK-X)

HC94949,00007EE-19-29JUL15

Machine Location and Speed



PC21194—UN—27MAY15

Machine Location and Speed

A—Latitude
B—Longitude
C—Toggle Button
D—Altitude
E—GPS Course
F—GPS Speed

Latitude (Lat) (A)–Displays machine location latitude coordinates with respect to Equator (North or South).

Longitude (Lon) (B)–Displays machine location longitude coordinates with respect to Prime Meridian (East or West).

NOTE: Toggle button (C) changes the way latitude and longitude are displayed from degrees, minutes, and seconds to decimal degrees.

Altitude (D)–Displays height of receiver in meters (feet) above sea level, measured from top of dome.

GPS Course (E)–Displays direction of travel, in degrees relative to true north (zero degrees). 90 degrees is East, 180 degrees is South, and 270 degrees is West.

GPS Speed (F)–Displays ground speed of machine in km/h (mph) as measured by receiver.

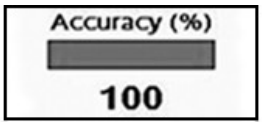
NOTE: Course and speed normally show small fluctuations even when machine is not moving.

HC94949,0000834-19-24JUL15

RTK Extend is a trademark of Deere & Company

Receiver Accuracy Indicator

NOTE: It may take 30 min for the Accuracy Indicator to reach 100% for 3 cm (1.2 in) accuracy.



PC21218—UN—08JUL15

Accuracy Indicator

Accuracy indicator gives indication of position accuracy achieved by receiver, and is displayed as a percentage (0–100%).

When receiver is initially powered, accuracy displays 0% and increases as position accuracy improves. To achieve advertised accuracy and repeatability, 100% accuracy is required.

HC94949,0000C67-19-03NOV17

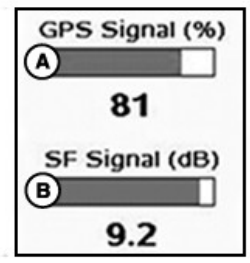
Receiver Position Accuracy

Many factors affect position accuracy. If full accuracy is not achieved within 30 min, consider the following possibilities:

- Obstructed view of sky–Trees, buildings, or other structures block receiver signals from available satellites.
- L1/L2 signal-to-noise ratio (SNR)–Radio interference from 2-way radios or other sources causes low SNR (check Satellite softkey–Graph).
- Satellite position in sky–Poor satellite geometry can reduce accuracy (check Satellite softkey–SkyPlot).
- Number of satellites in solution–Total number of satellites receiver uses to calculate position (check Satellite softkey–SkyPlot).

HC94949,0000AD4-19-31JAN17

Receiver Signal Quality



PC21383—UN—21JUL15

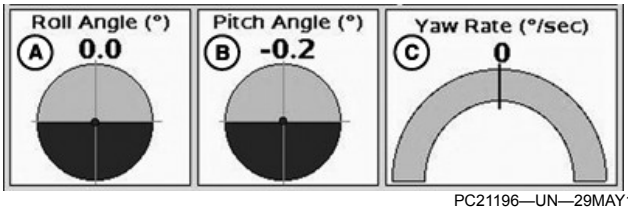
A—GPS Signal Quality
B—SF Signal Quality

GPS Signal Quality (A)–Displays quality of signals being received from constellation of GNSS (including GPS and GLONASS) satellites.

SF Signal Quality (B)–Displays quality of StarFire™ correction signal received by receiver.

HC94949,0000837-19-28JUL15

Receiver Terrain Compensation Module



PC21196—UN—29MAY15

Terrain Compensation Module

A—Roll Angle
B—Pitch Angle
C—Yaw Rate

Terrain compensation module (TCM)–Displays Roll Angle (A), Pitch Angle (B), and Yaw Rate (C).

- Roll Angle–Graphical and numerical representation of amount of roll TCM is measuring, relative to calibrated zero degree reference. Positive roll angle signifies machine is rolled to the right (depicts what horizon would look like from cab).
- Pitch Angle–Positive pitch angle occurs when machine cab is tilted back and negative pitch angle occurs when machine cab is tilted forward.
- Yaw Rate–Graphic representation and a numeric figure for amount of rotation TCM is measuring. Positive yaw rate signifies machine is turning right.

HC94949,0000838-19-24JUL15

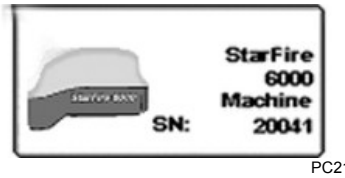
Satellite Information



PC8663—UN—29APR15

Menu Button

1. Select Menu button.



PC21222—UN—02JUN15

StarFire™ 6000 Button

2. Select StarFire™ 6000 button.



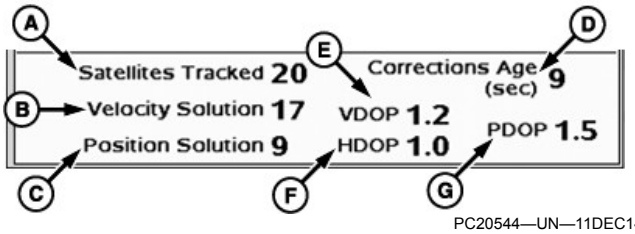
PC24843—UN—12OCT17

Satellite Information Softkey

3. Select Satellite Information softkey.

HC94949,0000C5B-19-12OCT17

Satellite Tracking Information



PC20544—UN—11DEC14

Satellite Tracking Information

A—Satellites Tracked
B—Velocity Solution
C—Position Solution
D—Corrections Age (sec)
E—VDOP
F—HDOP
G—PDOP

Satellite Tracking information is displayed at bottom of Sky Plot and Graph tabs.

- Satellites Tracked (A)–Total number of satellites tracked by receiver.
- Velocity Solution (B)–Number of satellites available to receiver that are above five degree elevation mask.
- Position Solution (C)–Number of satellites used to compute position.

Position Solution only uses high confidence data to calculate receiver position. Velocity Solution uses data from as many satellites as possible to calculate intermediate values based on previously calculated position solution. As a result, Velocity Solution count usually displays a higher number of satellites than Position Solution.

- Corrections Age (D)–Age of differential correction signal to receiver (normally less than 10 s).
- VDOP (E)–Vertical dilution of precision
- HDOP (F)–Horizontal dilution of precision
- PDOP (G)–Positional dilution of precision

These three values are an indicator of satellite geometry as viewed by receiver. A lower PDOP indicates better

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satellite geometry for calculating both horizontal and vertical position.

HC94949,00007B3-19-22JUL15

Sky Plot Tab



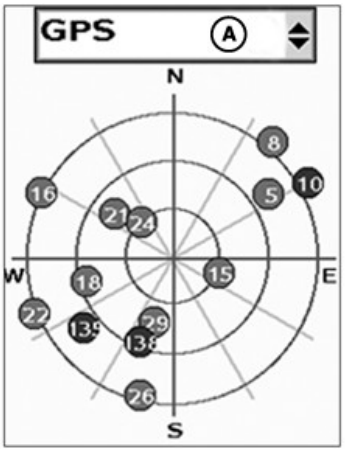
PC21322—UN—21JUL15

Sky Plot Tab

Sky Plot illustrates satellite geometry in relation to receiver.

HC94949,0000820-19-22JUL15

Reading Satellite Sky Plot



PC21381—UN—20JUL15

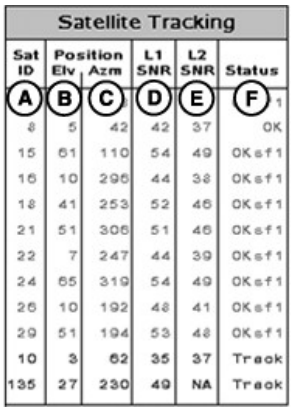
Sky Plot

A—Satellite System Drop-Down Menu

- Select satellite system from drop-down menu (A).
  - GPS–Global positioning system
  - GLONASS–Global navigation satellite system
  - StarFire™
- Sky Plot is fixed so that North is always at top.
- Satellites are displayed as their satellite identification (ID) number that correspond to Satellite Tracking chart.
  - Red–Indicates satellite is in search mode.
  - Blue–Indicates satellite is being tracked.
  - Green–Indicates satellite is being used for corrections.
- Sky Plot consists of three concentric rings depicting 0, 30, and 60 degrees of elevation with directional crossbar intersection representing 90 degrees of elevation.
- Radial lines extending from center of Sky Plot represent azimuth, and are spaced 30 degrees apart.
- Directional crossbar representing North, South, East, and West also represent azimuth at 0, 90, 180, and 270 degrees.

HC94949,00007B7-19-28JUL15

Satellite Tracking Chart



Satellite Tracking

Sat ID (A)	Position Elv (B)	Position Azm (C)	L1 SNR (D)	L2 SNR (E)	Status (F)
8	5	42	42	37	OK
15	61	110	54	49	OKsf1
16	10	296	44	38	OKsf1
18	41	253	52	46	OKsf1
21	51	306	51	46	OKsf1
22	7	247	44	39	OKsf1
24	65	319	54	49	OKsf1
26	10	192	48	41	OKsf1
29	51	194	53	48	OKsf1
10	3	62	35	37	Track
135	27	230	49	NA	Track

PC20515—UN—09DEC14

Satellite Tracking Chart

A—Sat ID
B—Position Elv
C—Position Azm
D—L1 SNR
E—L2 SNR
F—Status

- Satellite Identification (Sat ID) (A)–Satellite identification number.
- Position Elevation (Elv) (B)–Satellite elevation in degrees above horizon.
- Position Azimuth (Azm) (C)–Satellite azimuth in degrees from true north.

NOTE: L1 and L2 signal-to-noise ratio (SNR) values are displayed when GPS is selected, and G1 and G2 SNR values are displayed when global navigation satellite system (GLONASS) is selected.

- L1 SNR (D)–L1 global positioning system (GPS) signal-to-noise ratio.
- L2 SNR (E)–L2 GPS signal-to-noise ratio.
- G1 SNR–G1 GLONASS signal-to-noise ratio.
- G2 SNR–G2 GLONASS signal-to-noise ratio.
- Status (F)–Status of satellite signal.
  - Search–Searching for satellite signal.
  - Track–Tracking satellite signal and using it for positioning.
  - OK–Tracking satellite signal and using it for positioning.
  - OK SF1–Tracking satellite signal and using it for positioning with SF1 signal.

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- OK SF3–Tracking satellite signal and using it for positioning with SF3 signal.
- OK real time kinematic (RTK)–Tracking satellite signal and using it for positioning with RTK signal.

HC94949,00007B6-19-27JUL15

Graph Tab



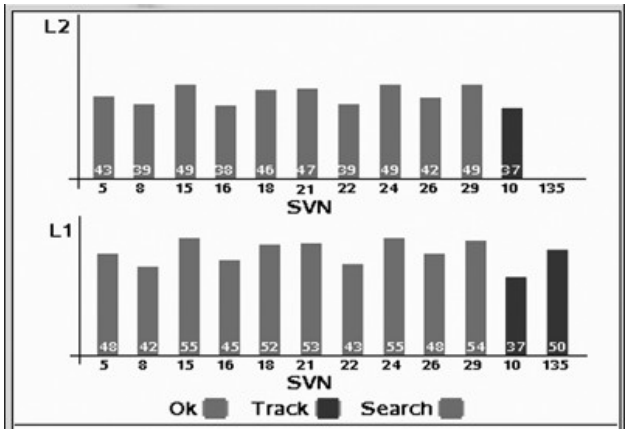
PC21323—UN—22JUL15

Graph Tab

Graph tab illustrates signal-to-noise ratio (SNR) values.

HC94949,0000808-19-22JUL15

Graph



PC21324—UN—06JUL15

Signal-to-noise Ratio (SNR) Values

NOTE: L1 and L2 signal-to-noise ratio (SNR) values are displayed when GPS is selected on Sky Plot tab, and G1 and G2 SNR values are displayed when global navigation satellite system (GLONASS) is selected.

- Bars are colored according to status.
- SNR values are displayed inside colored bars.

NOTE: Only green bars are used in calculation of positional dilution of precision (PDOP), vertical dilution of precision (VDOP), and horizontal dilution of precision (HDOP).

HC94949,00007B5-19-27JUL15

Global Positioning System (GPS) Accuracy Indicator

Select Menu button > GreenStar™ button > Guidance softkey.

GreenStar™ 2 Display, GreenStar™ 3 Display, and Generation 4 CommandCenter™ alert operator when current StarFire™ signal is not optimal for high accuracy operations. There are three levels of this alarm system (Normal, Marginal, and Poor). Levels are determined both by StarFire™ Receiver position dilution of precision (PDOP) value and the number of satellites being tracked.

Use care when StarFire™ Receiver is being used in high accuracy operations as accuracy degradation may occur.

NOTE: When operating in real time kinematic (RTK) or RTK Extend™ (RTK-X), both PDOP and number of satellites are used to determine level of alarm.

When operating at a signal level less than RTK (SF3, SF1, or WAAS), only PDOP is used to determine level of alarm.

GPS accuracy indicator must be completely green for in-season repeatability with SF3.

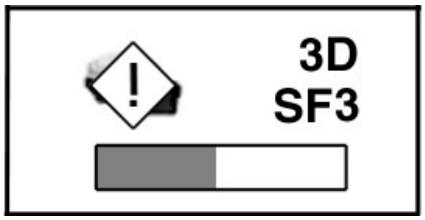


PC21376—UN—17JUL15

Normal

Normal

- Green bar
- Normal operating range
- Acceptable range for high accuracy operations
- PDOP value: 0—3.5
- Six or more satellites in solution



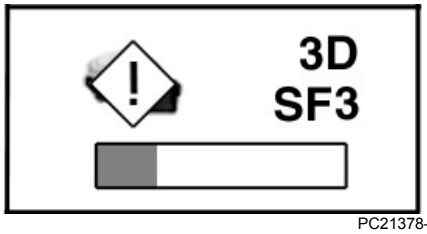
PC21377—UN—17JUL15

Marginal

Marginal

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CommandCenter is a trademark of Deere & Company
StarFire is a trademark of Deere & Company
RTK Extend is a trademark of Deere & Company

- Orange bar with permanent operator alert sign
- Marginal operating range
- Moderate risk of accuracy degradation
- PDOP value: 3.5—4.5
- Five satellites in solution



PC21378—UN—17JUL15

Poor

Poor

- Red bar and flashing operator alert sign
- Poor operating range
- Significant risk of accuracy degradation–high accuracy operations are not advised
- PDOP value greater than 4.6
- Four satellites or less in solution

AE77568,00001D7-19-08FEB17

StarFire™ File Manager



PC8663—UN—29APR15

Menu Button

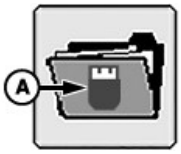
1. Select Menu button.



PC21222—UN—02JUN15

StarFire™ 6000 Button

2. Select StarFire™ 6000 button.



PC25569—UN—24APR18

File Manager Softkey

A—USB Indicator

NOTE: USB indicator (A) turns green when the receiver recognizes that a USB drive is inserted.

3. Select File Manager softkey.

RW00482,00006D7-19-05JUN18

Capture Data

Capture Data button stores diagnostic information internally on receiver. USB drive is not required to capture data. Internal data logger continuously logs diagnostic information. The capture procedure includes approximately 2 h of previous data and approximately 15 min of data after the Capture Data button is selected.



PC21313—UN—06JUL15

Capture Data Button

1. Select Capture Data button. Data Transfer Processing popup appears.
2. After Data Capture Successful appears, select Accept button.



PC21319—UN—06JUL15

Export Now Button



PC21320—UN—07JUL15

Later Button

3. Select Export Now button or Later button.

HC94949,0000C7C-19-06NOV17

Manage Data



PC21314—UN—06JUL15

Manage Data Button

Use Manage Data button to import data from or export data to the USB drive, or delete data from the receiver.

NOTE: Import Data and Export Data options are available when the USB drive is connected to the StarFire™ 6000 USB port.

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PC21315—UN—06JUL15

Import Data Button



PC21316—UN—06JUL15

Export Data Button



PC21317—UN—06JUL15

Delete Data Button

1. Select Import Data button, Export Data button, or Delete Data button.
2. Select desired data.

HC94949,0000C62-19-13NOV17

Update Receiver

Update Receiver button allows direct receiver software updates that are faster than updates through the GreenStar™ Display.



PC21318—UN—07JUL15

Update Receiver Button

1. Select Update Receiver button.
2. Select desired update.
3. Select Update button.

HC94949,0000C7B-19-06NOV17

Hardware Failure



PC24862—UN—17OCT17

Indicator

A red indicator is displayed when a receiver hardware failure is detected. Contact your John Deere dealer.

HC94949,0000C79-19-06NOV17

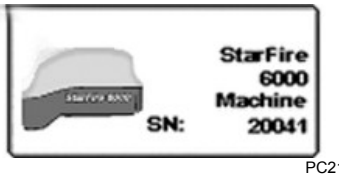
Diagnostics



PC8663—UN—29APR15

Menu Button

1. Select Menu button.



PC21222—UN—02JUN15

StarFire™ 6000 Button

2. Select StarFire™ 6000 button.



PC13049—UN—10NOV10

Diagnostics Softkey

3. Select Diagnostics softkey.

HC94949,0000AF3-19-14FEB17

Diagnostic Readings Tab



PC23362—UN—03FEB17

Diagnostic Readings Tab

Select information from drop-down menu.

Hardware and Software

- Software Part Number
- Software Version Number
- Hardware Part Number
- Hardware Serial Number

System Voltages

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- Unswitched Voltage
- Switched Voltage
- CAN High Voltage (Vehicle CAN Bus)
- CAN Low Voltage (Vehicle CAN Bus)

Receiver Status

- Receiver Hours
- Receiver Address
- External Antenna
- Serial NMEA

The following readings only appear when receiver has a real time kinematic (RTK) activation.

RTK

- RTK Software Version Number (RTK Radio Software Version)
- RTK Serial Number (RTK Radio Serial Number)
- RTK Status
- RTK Search Time(s)
- RTK Satellites in Search (above 10 degrees elevation)
- RTK-X–RTK Extend for up to 14 days when RTK signal is lost.

RTK-X

- RTK-X Days Remaining
- StarFire™ Offset Status
- StarFire™ Signal
- Last RTK-X Failure Mode
- Time of Last Failure

MRTK

- MRTK Network Message
- Base Station Distance (km)
- Solution Type

HC94949,0000A7C-19-15NOV16

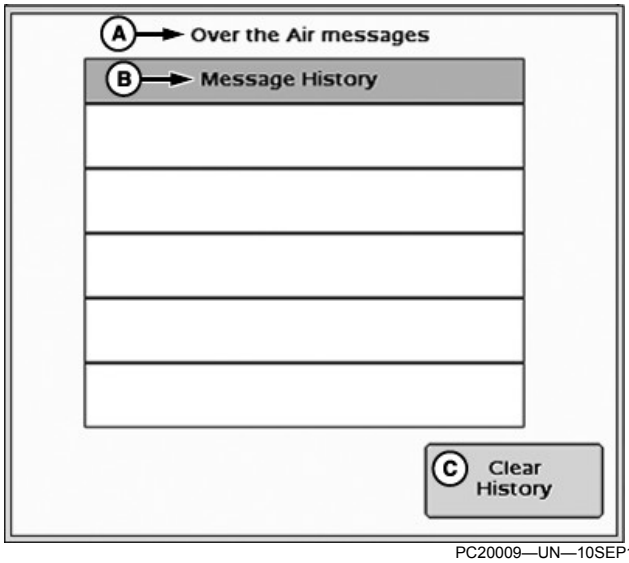
Diagnostic Data Logs Tab

Select information from drop-down menu.

- Position Dilution of Precision (PDOP)–Is a combination of vertical and horizontal error (or three dimensional). A lower PDOP value is better. A value below 2 is considered optimal.
- Satellites Used–Is the number of satellites receiver uses in current position solution. Satellites are not used in solution until they get above five degrees elevation mask for WAAS/EGNOS, SF1, or SF3. Satellites are used until they drop below five degrees elevation mask for WAAS/EGNOS, SF1, or SF3.
- Navigation Mode–Is represented as three different types; No Nav, 2D, and 3D. Navigation Mode helps determine if satellite signal has been dropped in last 60 minutes.
- Differential Mode–Displays level of differential signal received over past 60 minutes. Level of signal purchased on receiver determines highest point on bar graph.
- GPS Signal Quality–Shows quality of signals being received from global positioning system (GPS) satellites. Unlike GPS Accuracy Indicator, Signal Quality does not include WAAS/EGNOS, SF1, SF3, or amount of time signal is received.
- Differential Signal Quality–Is the strength of StarFire™ network signal (SF3 or SF1). Normal range is from 5 to 15, but maximum reading on indicator is 10. Numerical value is displayed to right of indicator. Any value above 5 is normal.
- GPS Accuracy–Is a relative indication of overall differential GPS performance.

HC94949,00007FD-19-22JUL15

Diagnostic Over-the-Air Tab



PC20009—UN—10SEP14

A—Over the Air Messages
B—Message History
C—Clear History Button

Over-the-Air (OTA) messages (A) allow StarFire™ 6000 Receiver to receive license subscriptions and activations through the StarFire™ network. Rather than getting a license subscription code over the phone or internet, the license subscription code is transmitted wirelessly from a StarFire™ satellite.

Go to StellarSupport.com, and enter a request to send

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the receiver the license immediately or after a time delay. At the machine, receiver must be powered up and tracking satellites to accept OTA activation. If the activation does not successfully load, call StellarSupport™ with receiver serial number to have activation regenerated.

Message History (B)–Shows OTA messages that have been received since receiver has been powered on. History shows whether an OTA activation was applied successfully or not.

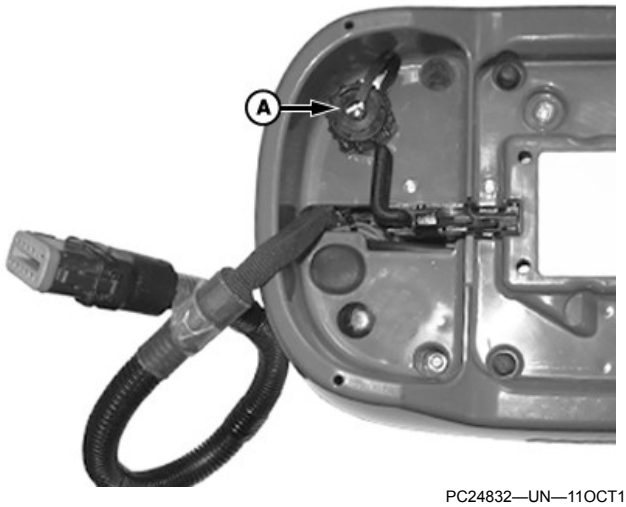
Clear History Button (C)–Erases OTA message history.

HC94949,00007FE-19-30JUL15

StarFire™ 6000 – USB Drive Options

CAUTION: Falling while installing or removing electronic components mounted on equipment can cause serious injury. Do not access receiver USB port while operating machine.

NOTE: Large data sets may take several minutes to transfer. Power loss or removing USB drive during data transfer may cause data loss.



PC24832—UN—11OCT17

A—USB Port

StarFire™ 6000 Receiver has a USB port (A) for faster software updates and on-board event data logging.

HC94949,0000C5E-19-11OCT17

USB Drive Best Practices

Wait 10 s after inserting USB drive. Large USB drives may take time to be recognized.

Use a USB drive that is 2 GB or larger, so multiple backups can be stored.

Clean all files off USB drive not associated with StarFire™ Receivers or GreenStar™ Displays.

HC94949,00007C9-19-20JUL15

USB Drive Options

USB Drive Options displays:

- StarFire™ Serial Number
- Last Capture
- Captured Data Sets
- Total Size

HC94949,0000812-19-22JUL15

USB Drive Requirements

Format–Windows™ File Allocation Table (FAT) 32.

Capacity–There are no size limits for the memory capacity of the drive.

Connectivity–USB 2.0 or better.

No password, encryption, or BitLocker® capabilities are on the USB drive, even if turned off.

When plugged into a computer, USB drive should appear as “Removable Disk”. Do not use a USB drive if “Local Disk” appears..

HC94949,0000832-19-19AUG15

Access GreenStar™ 2 Display and GreenStar™ 3 Display Diagnostics

Trouble Codes



PC8663—UN—29APR15

Menu Button



PC8664—UN—05AUG05

Message Center Button

StellarSupport is a trademark of Deere & Company
StarFire is a trademark of Deere & Company
GreenStar is a trademark of Deere & Company
Windows is a trademark of Microsoft Corporation in the United States and other countries
BitLocker is a trademark of Microsoft Corporation in the United States and other countries



PC8655—UN—05AUG05

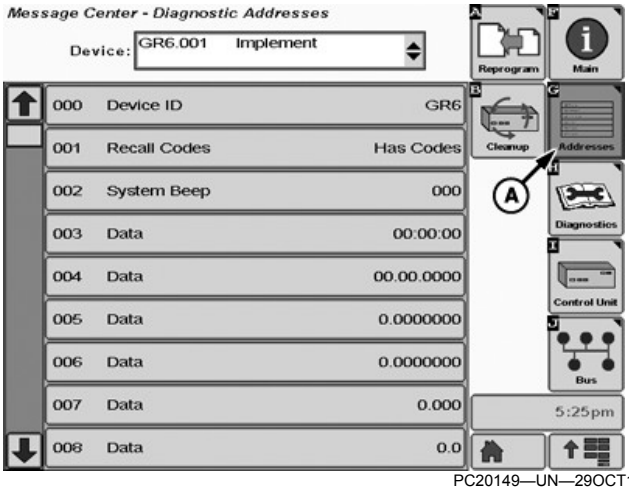
Message Center Button

Message Center displays all active alarm messages.

To navigate to Message Center, select Message Center button (displays time) or select Menu button > Message Center button.

Diagnostic Addresses

NOTE: Diagnostic addresses are available to access specific diagnostic information. This information assists John Deere dealers in diagnosing problems. Different device controllers can be selected from drop-down menu.



PC20149—UN—29OCT14

Diagnostic Addresses

A—Diagnostic Address Softkey

Select Diagnostic Address softkey (A). The number of devices available depends on machine configuration. Scroll through list to view addresses. Select an address to display details.

HC94949,0000B45-19-14MAR17

Access Generation 4 CommandCenter™ Diagnostics



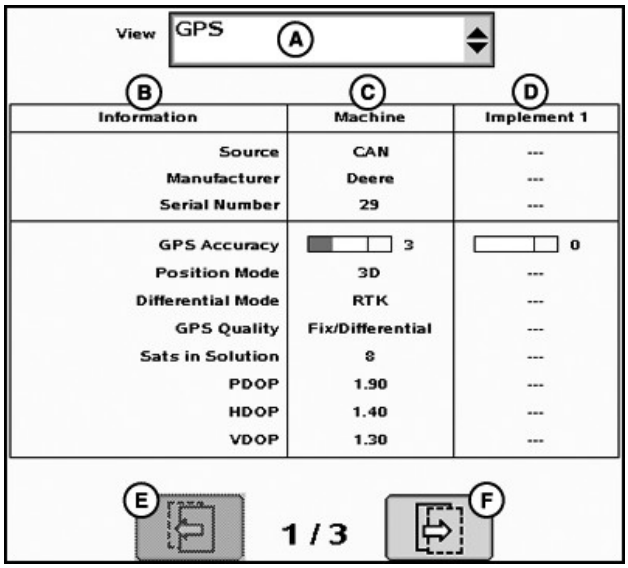
PC17272—UN—17JUL13

Diagnostics Center

Select Menu > System tab > Diagnostics Center application.

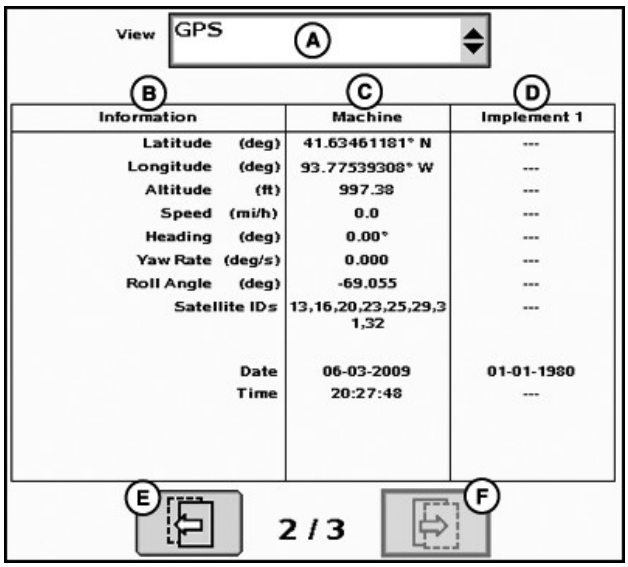
HC94949,000081B-19-22JUL15

GreenStar™ 2 and 3 Displays–Diagnostic Information



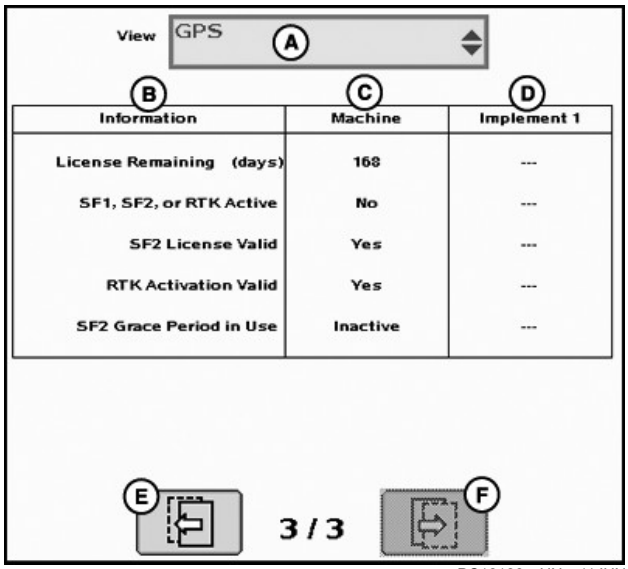
PC12120—UN—11JUN09

GreenStar



PC12121—UN—11JUN09

GreenStar™–Diagnostic Information 2/3



PC12122—UN—11JUN09

GreenStar™–Diagnostic Information 3/3

A—View–GPS
B—Information
C—Machine
D—Implement 1
E—Previous Page
F—Next Page

Select Menu button > GreenStar™ button > Diagnostics softkey > GPS from View drop-down menu (A).

HC94949,00007BF-19-22JUL15

StarFire™ 6000 LED Status

Base Station	Machine	Status Message
OFF	OFF	Switched power is OFF
Flashing Purple	Flashing Purple	Low Power (system voltage under 9 VDC)
Flashing Yellow	Flashing Yellow	Application failure
Steady Yellow	Steady Yellow	Hardware failure
Flashing Cyan	Flashing Cyan	Reprogramming
Flashing Yellow/ Cyan	Flashing Yellow/ Cyan	Flash reprogramming failure
Steady Fuchsia	Steady Fuchsia	All other states
Flashing Blue	Not applicable	Quick survey: Corrections transmitted for fewer than 5 satellites
Steady Blue	Not applicable	Quick survey: Corrections transmitted for at least 5 satellites
Flashing Green	Not applicable	Absolute survey: Corrections transmitted for fewer than 5 satellites
Steady Green	Not applicable	Absolute survey: Corrections transmitted for at least 5 satellites
Not applicable	Flashing Blue	Acquiring solution
Not applicable	Flashing Green	2D/3D Fix achieved below user-selected accuracy level
Not applicable	Steady Green	2D/3D Fix achieved at user-selected accuracy level

HC94949,0000ADA-19-23JUN17

GreenStar is a trademark of Deere & Company

LICENSE AGREEMENT FOR JOHN DEERE STARFIRE™ SATELLITE RECEIVER SOFTWARE

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1. Description of Software. Your Receiver comes with all Software pre-installed. The Software enables the Receiver to receive and use Global Navigation Satellite System ("GNSSS") location data and GNSS correction data ("GNSS Correction Data") that may be transmitted via one or more satellite networks. The Receiver has been pre-configured to receive publicly available, differential GNSS Correction Data, and to enable use of the GNSS Correction Data at the SF1 level of accuracy as described in the terms governing your use of the Receiver and associated software.

2. Accuracy Activation Codes. If you want to enable your Receiver to obtain a level of accuracy higher than SF1, you may activate SF2/SF3 level of accuracy on the Receiver by i) if your Receiver is not already SF2/SF3-ready, purchasing and activating a permanent activation code that will enable the Software to accept time-based SF2/SF3 activations and ii) purchasing and activating a time-based SF2/SF3 activation code. If you desire a level of accuracy higher than SF2/SF3, you may activate RTK level of accuracy on the Receiver by i) purchasing and activating a permanent RTK activation code and ii) purchasing any additional hardware and/or services required to connect to a source of RTK correction data, such as an additional Receiver, an RTK radio, an RTK modem, a John Deere dealer RTK network subscription, and/or a mobile RTK subscription. Contact your John Deere dealer or other authorized distributor to purchase any of the activation codes identified in this paragraph, and note that your John Deere dealer, authorized distributor, or Deere & Company or subsidiaries or affiliates may charge additional fees for any such activation codes. To understand the particular requirements for each source of RTK correction data and its availability in your area, please contact your John Deere dealer. Loading of any of these activation codes into the Receiver by means of a John Deere-approved display or by means of computer software provided by John Deere (following the instructions supplied by John Deere, e.g. in the Operator's Manual) will enable you to use the Software pursuant to the terms of this Agreement, the terms governing your use of the Receiver, and, as applicable, the terms governing your use of a John Deere display system. Activation of the Software on the Receiver will ordinarily occur upon issuance by John Deere of an activation code, but in some cases activation may be accomplished wirelessly, via John Deere's website (www.stellarsupport.deere.com). You are responsible for maintaining the confidentiality of all activation codes and will not disclose them to any third party or permit any third party to use them without paying the applicable activation fees.

3. License. John Deere hereby grants to you, and you accept, a nonexclusive license to use the Software in machine-readable, object code form, only as authorized in this Agreement and the applicable provisions of the Receiver operators' manual, which you agree to review carefully prior to using the Software. The Software may be used only on the Receiver on which it was initially installed. You agree that you will not assign, sublicense, transfer, pledge, lease, rent, or share your rights under this Agreement, except that you may permanently transfer all of your rights under this Agreement in connection with the sale of the Receiver on which the Software covered by this Agreement is installed. If you sell or otherwise transfer the ownership of the Receiver, you agree that you will require such transferee to accept terms no less restrictive than those in this Agreement. In addition to the foregoing, you agree that you will not obtain or attempt to obtain the Software or any activation code using false or untrue information or without paying the appropriate fees and charges, nor will you knowingly permit others to do so, and you agree to pay any license fees and charges that would otherwise have been due. No other use of the Software is permitted by this Agreement except as set forth in this Paragraph 3.

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5.
License Fees. All Receiver software license fees for the initially-activated software features of the Receiver were included in the original purchase price of the Receiver, but note that separate activation fees for additional functionality may apply as described in section 2 above. No additional license fee or other fee will be charged by John Deere under this Agreement. Fees for the original

purchase of the Receiver or for any activation codes may be charged by your John Deere dealer, an authorized distributor, or Deere & Company or its subsidiaries or affiliates.

6.
Limited Warranty. John Deere warrants, for your benefit alone and not for the benefit of any other party, that during the **"Warranty Period"** defined below, the Software will operate substantially in accordance with the applicable functional specifications **("Specifications")** set forth in the Receiver documentation. **JOHN DEERE DOES NOT WARRANT THAT THE OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR FREE OR THAT IT WILL MEET YOUR NEEDS.** Your exclusive remedy and the sole obligation of John Deere and (as applicable) its service partners in the event of any warranty claim or any other contract deficiency shall be for John Deere or (as applicable) its service partners to use commercially reasonable efforts to correct the deficiency or, if correction cannot be accomplished in thirty (30) days, to refund an equitable part of any license fees for the Software determined in reference to your prior use of the Software and the impact of the deficiency. You acknowledge that this warranty does not apply where a deficiency in the operation of the Software is due to circumstances beyond John Deere's reasonable control and/or is caused by an act or omission of a third party, including, but not limited to, equipment failure, acts of God, strikes, or other similar causes. You further acknowledge that deficiencies in the coverage, availability or operation of the GNSS location data, GNSS Correction Data, or the Software caused by atmospheric conditions (including scintillation), topographical conditions, tectonic plate movement, or interruption of data transmissions from orbital satellites are beyond John Deere's reasonable control and are considered force majeure. In such cases, John Deere assumes no responsibility for coverage and quality problems related to these conditions. The "Warranty Period" is one (1) year from the date you take delivery of the Receiver. .

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DISCLAIMER OF WARRANTIES. YOU HEREBY AGREE THAT THE LIMITED WARRANTY PROVIDED ABOVE (THE **"LIMITED WARRANTY"**) CONSTITUTES YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY PROBLEM WHATSOEVER WITH THE SOFTWARE. EXCEPT AS PROVIDED IN THE LIMITED WARRANTY, THE SOFTWARE IS LICENSED "AS IS" AND "AS AVAILABLE" AND JOHN DEERE, ITS AFFILIATES AND THIRD PARTY SUPPLIERS EXPRESSLY DISCLAIM AND YOU EXPRESSLY WAIVE, RELEASE AND RENOUNCE ALL WARRANTIES ARISING BY LAW OR OTHERWISE WITH RESPECT TO THE SOFTWARE, INCLUDING, BUT NOT LIMITED TO: ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE; ANY WARRANTY OF TITLE OR NON-INFRINGEMENT; AND, ANY OTHER WARRANTY ARISING UNDER ANY THEORY OF LAW, INCLUDING TORT, NEGLIGENCE, STRICT LIABILITY, CONTRACT OR OTHER LEGAL OR EQUITABLE THEORY. JOHN DEERE DOES NOT WARRANT THAT THE RECEIVER'S ABILITY TO OBTAIN GNSS LOCATION DATA OR GNSS CORRECTION DATA WILL BE UNINTERRUPTED OR ERROR FREE. NO REPRESENTATION OR OTHER AFFIRMATION OF FACT INCLUDING, BUT NOT LIMITED TO, STATEMENTS REGARDING CAPACITY OR SUITABILITY FOR USE, SHALL BE DEEMED TO BE A WARRANTY BY JOHN DEERE OR ANY OF ITS AFFILIATES OR THIRD PARTY SUPPLIERS.

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they shall be governed by the terms and conditions applicable to the Software under this Agreement.

10. Term of License. This Agreement will commence as of the Effective Date and expire upon the earlier of i) the useful life of the Receiver or ii) the date John Deere terminates this Agreement in accordance with the terms of this Paragraph 10. This Agreement does not automatically renew. The term of your license to use any portion of the Software enabled by an activation code, such as a time-based SF2/SF3 activation code, shall be governed by the terms presented to you upon your purchase of the activation code.

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12. Compliance with Law. You agree that you will use the Software in accordance with United States law and the laws of the country in which you are located, as applicable, including foreign trade control laws and regulations. The Software may be subject to export and other foreign trade controls restricting re-sales and/or transfers to other countries and parties. By accepting the terms of this Agreement, you acknowledge that you understand that the Software may be so controlled, including, but not limited to, by the Export Administration Regulations and/or the foreign trade control regulations of the Treasury Department of the United States. The Software remains subject to applicable U.S. laws. You further agree that neither the Software nor the Receiver shall be used for any military purpose.

13. Indemnification. You agree to defend, indemnify and hold John Deere, its affiliates and third party supplier, and their, officers, directors, employees, agents and representatives (each an **"Indemnified Party"**), harmless from and against all claims, demands proceedings, injuries, liabilities, losses, or costs and expenses (including reasonable legal fees) brought by any third party against any such persons arising from or in connection with your misuse of the Receiver or the Software or your breach of any term of this Agreement.

14. Trademark. No right, license, or interest to any trademark is granted hereunder, and you agree that no such right, license, or interest shall be asserted by you with respect to any John Deere trademarks.

15. Costs of Litigation. If any claim or action is brought by either party to this Agreement against the other party regarding the subject matter hereof, the prevailing party shall be entitled to recover, in addition to any other relief granted, reasonable attorney, arbitrators, and dispute resolution center administrative fees and expenses of litigation.

16. Severability and Waiver. Should any term of this Agreement be declared void or unenforceable by any court of competent jurisdiction, such declaration shall have no effect on the remaining terms hereof. The failure of either party to enforce any rights granted hereunder or to take action against the other party in the event of any breach hereunder shall not be deemed a waiver by that party as to subsequent enforcement of rights of subsequent actions in the event of future breaches.

17. Language Clause. Unless the laws of the location in which you reside require otherwise, the parties hereby acknowledge that they have required this Agreement, and all other documents relating hereto, be drawn up in the English language only. There may be a translated version of this License Agreement. If there is an inconsistency or contradiction between the translated version and the English version of this Agreement, the English version of this Agreement shall control unless the laws of the location in which you reside require that a different version control.

18. Assignment by John Deere. John Deere may assign this Agreement without your prior consent to any company or entity affiliated with John Deere or by an assignment associated with a corporate restructuring, merger or acquisition.

19. Governing Law and Forum. This Agreement will be governed by and construed in accordance with the substantive laws in force in the State of Illinois, U.S.A. The respective courts of Rock Island County, Illinois have exclusive jurisdiction over all disputes relating to this Agreement. The rights and obligations of the parties under this Agreement will not be governed by the United Nations Convention on Contracts for the International Sale of Goods ("CISG") and the parties hereto expressly exclude the applicability of the CISG to this License Agreement.

20. Arbitration. IF YOU RESIDE IN A JURISDICTION WHEREIN THE ENFORCEABILITY OF THE TERMS OF SECTION 17 IS DEPENDENT UPON THE PARTIES AGREEING TO SUBMIT TO ARBITRATION, THEN ANY CONTROVERSY OR CLAIM ARISING OUT OF OR RELATING TO THIS AGREEMENT SHALL BE DETERMINED BY ARBITRATION IN ACCORDANCE WITH THE INTERNATIONAL ARBITRATION RULES OF THE INTERNATIONAL CENTRE FOR DISPUTE RESOLUTION ("ICDR") IN EFFECT AT THE TIME OF ITS INITIATION. THE ARBITRATION SHALL BE HELD BEFORE ONLY ONE ARBITRATOR APPOINTED BY THE ICDR. THE PLACE OF ARBITRATION SHALL BE CHICAGO, ILLINOIS, USA AND THE LANGUAGE OF THE ARBITRATION SHALL BE ENGLISH.

21. Representations of Licensee. BY ACCEPTING THIS AGREEMENT, YOU: (A) ACKNOWLEDGE THAT YOU HAVE READ AND UNDERSTAND THIS AGREEMENT; (B) REPRESENT THAT YOU HAVE THE AUTHORITY TO ENTER INTO THIS AGREEMENT; (C) AGREE THAT THIS AGREEMENT IS ENFORCEABLE AGAINST YOU AND ANY LEGAL ENTITY THAT OBTAINED THE SOFTWARE AND ON WHOSE BEHALF IT IS USED; (D) AGREE TO PERFORM THE

OBLIGATIONS OF THIS AGREEMENT; AND (E) REPRESENT AND AGREE THAT ALL INFORMATION PROVIDED BY YOU IS TRUE AND ACCURATE TO THE BEST OF YOUR KNOWLEDGE.

22. Notices. All notices to John Deere shall be sent by certified or registered mail to John Deere Shared Services, Inc., One John Deere Place, Moline, IL 61265 U.S.A. In addition, a copy of the notice shall be sent to John Deere Intelligent Solutions Group, ATTN: John Deere StarFire 3000 Receiver, 4052 114th Street, Urbandale, IA 50322 U.S.A. All notices to John Deere shall be effective upon receipt. All notices required to be given to you shall, in John Deere's sole discretion, either be sent via certified or registered mail to the address given to John Deere, a John Deere dealer, or another distribution partner of John Deere in connection with your purchase of the Receiver. Either method of notification used by John Deere shall be effective upon dispatch. You agree to notify John Deere of any change in your address in the manner set forth above.

OUCC002,0005D7C-19-14JUL18

ZXLink™

ZXLink™ is synonymous with JDLink™. Whenever JDLink™ is mentioned it refers to both JDLink™ and ZXLink™.

CC20638,00017CA-19-05MAY17

Modular Telematics Gateway Theory of Operation

Modular telematics gateway (MTG) is one of the main components that enable John Deere telematics solutions, including JDLink™. MTG is a control unit that contains firmware, a cellular modem, and a subscriber identification module (SIM) device. MTG transfers data to and from the JDLink™ host server over a cellular network. MTG also contains a wireless modem that is used to transfer data when connected to a wireless network.

JDLink™ requires the purchase of appropriate hardware and a JDLink™ subscription. When MTG is powered on by machine for the first time, it registers with JDLink™ host server and receives the authorization to report data.

MTG Communication

MTG sends and receives data and messages over cellular or wireless networks. MTG supports other telematics solutions, including Service ADVISOR™ Remote, John Deere Remote Display Access, John Deere Wireless Data Transfer, and John Deere Machine Sync shared data. Telematics solution applications, such as Remote Display Access, require an uninterrupted cellular connection to function. Other telematics solution applications, such as Wireless Data Transfer and Machine Sync shared data, store information on the display and transmit data when a cellular connection is established. Telematics solutions such as JDLink™ do not require an uninterrupted cellular connection because MTG can store machine data for up to 1000 hours. When MTG returns to an area of cellular coverage, the most recent 1000 hours of data are forwarded to the host server at its next scheduled time.

When powering down machine, MTG remains powered for the time needed for functions to complete. MTG enters a sleep state for up to 7 days. During sleep state, MTG calls in during its scheduled times. When JDLink™ curfews and geofence alerts are set, MTG checks for any changes in its environment. After sleep state, MTG enters a hibernation state and is not able to send or receive data. The only way to wake MTG from hibernation state is to turn on key switch and power up machine.

Machine Sync Shared Data Capabilities

MTG supports machine to machine communication.

Utilizing a Machine Sync activation, displays can share data, such as coverage maps and guidance lines, between multiple machines.

Remote Service Capabilities

MTG supports remote service capabilities. Service ADVISOR™ Remote is a tool for a dealer technician to service other machine control units using the MTG. Operator accepts the download and installation procedures. MTG receives firmware updates remotely from John Deere that do not require operator or dealer intervention.

Website

Data sent by MTG is made available to registered users using password-secured JDLink™ website. Notifications are sent to users through e-mail or SMS text messaging. Dealer must log in to transfer MTG to a new customer account.

View current and historical status of equipment on JDLink™ website. Information collected includes location, machine hours, idle time, maintenance intervals, and other machine settings. Use website to send a request to MTG to view real-time status of a machine.

Wireless Network

The wireless modem within MTG allows communication to local networks (such as other machines, mobile devices, and computers) and local access points (such as a home or shop network). The MTG can send and receive data and messages over a wireless network the same as over a cellular network.

Use a 4600 CommandCenter™ or the SolutionsPlus application to connect to a mobile device or hotspot.

Bluetooth®

Bluetooth® wireless technology enables connectivity to mobile devices, such as a smartphone or tablet, for wireless network configuration and information viewing on machines without supported on-board displays.

SolutionsPlus Application

NOTE: When making a wireless connection from the machine to a local network, individual data rates from that network may apply.

The SolutionsPlus application manages wireless networks for the machine MTG. SolutionsPlus saves wireless network credentials and uses that information to connect to available local wireless networks.

The SolutionsPlus application is available for both Apple® and Android™ devices and can be downloaded

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JDLink is a trademark of Deere & Company
Service ADVISOR is a trademark of Deere & Company
CommandCenter is a trademark of Deere & Company
Bluetooth is a trademark of Bluetooth SIG
Apple is a trademark of Apple Inc.
Android is a trademark of Google Inc.

through the Apple App Store® or Google Play™. It is available as part of the John Deere App Center application or as a standalone application.

Communication between SolutionsPlus and the MTG is only available when the key switch is turned to Run and the engine is off. The mobile device must also be within 12.2 m (40 ft) of the machine cab. After turning the key switch to Run, it takes about 1 minute for Bluetooth® to connect. Only one mobile device can connect to the machine at a time using Bluetooth®.

(Reference SolutionsPlus Onscreen Help for more information.)

AE77568,0000351-19-07JUN17

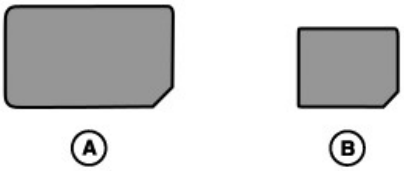
Customer Owned SIM

Before installing the customer owned subscriber identity module (SIM) card, the following are required:

- Active JDLink™ subscription
- JDLink™ account

NOTE: When using a customer owned SIM card, individual data rates from the network apply.

MTG contains a slot for a micro SIM card for use in countries where customers provide their own SIM card.



PC20433—UN—04DEC17

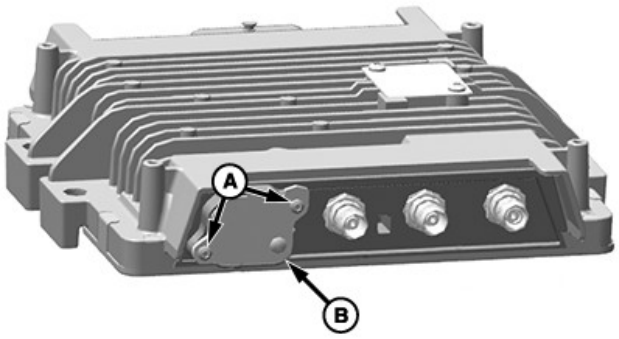
A—Mini SIM Card
B—Micro SIM Card

NOTE: If upgrading from an MTG 3G, the existing mini SIM card (A) is not compatible with the micro SIM card (B) slot on the MTG 4G LTE.

To insert micro SIM card:

NOTE: Turn key switch off before inserting or changing SIM card.

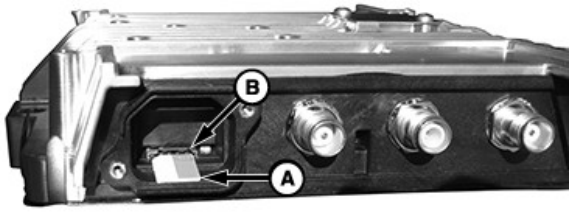
Apple App Store is a trademark of Apple Inc.
Google Play is a trademark of Google Inc.
JDLink is a trademark of Deere & Company



PC22044—UN—20JAN16

A—Cap Screw (2 used)
B—SIM Insert

1. Remove and retain cap screws (A) and SIM insert (B).



PC23789—UN—23FEB17

A—Micro SIM Card
B—Micro SIM Card Slot

2. Insert micro SIM card (A) into slot (B).
3. Reinstall insert and cap screws.

See your John Deere dealer or qualified service provider for additional setup information.

AE77568,0000005-19-04DEC17

Satellite Module Theory of Operation

In select regions, an optional satellite module is offered that is a companion to the modular telematics gateway (MTG). JDLink™ satellite module hardware looks like MTG hardware, but contains a satellite modem. Satellite modem allows MTG to transfer data to and from JDLink™ host server over a satellite connection when a valid cellular or wireless network is unavailable.

After satellite module is installed with MTG, satellite service must be activated for satellite module to communicate over satellite network.

Satellite Communication

Scheduled call frequency defaults to one call per day when using satellite module. This frequency can be changed to one time per week on website.

As long as MTG has cellular coverage, satellite module is not used. The MTG attempts to call using last successful method (cellular or satellite signal). If

machine moves into an area of weak or no cellular coverage, MTG cannot complete a call. JDLink™ website shows that machine missed a call. One hour after the failed call, MTG escalates call to satellite module.

If MTG is set for a daily call in, completes a call, and moves out of cellular coverage with no red alerts or immediate calls required, the next call attempt is in 24 hours. It can take 25 hr before message is received or sent to machine.

Calls over satellite signal are marked with a satellite icon on JDLink™ website. Machine must have a clear view of the sky to connect to satellite network.

Alert Messages with Satellite

All telematics messages have a routing class and priority that determine whether they are sent immediately or with the next call attempt. There is special logic to determine whether messages are sent using MTG or satellite module if initial cellular call failed.

- Red alerts are sent immediately.
- Yellow and Informational alerts are at least 2 hr old before being sent with the next scheduled call, or with a website-initiated call or request to machine.
- Security alerts, such as geofence and curfew, depend on user-defined website settings.
- Requests sent from website to machine are retrieved within about 5 minutes. If request was the first communication with a machine after leaving an area of cellular coverage, requests can take up to 1 hour.

Some limitations exist when using satellite module. Applications that require an uninterrupted cellular connection are not supported. For example, Service ADVISOR™ Remote, John Deere Remote Display Access, John Deere Wireless Data Transfer, and John Deere Machine Sync shared data are not supported due to the satellite connection's limited capacity and latency.

AE77568,00001F0-19-28JUN16

Data Collection

The JDLink / ZXLink product enables John Deere and John Deere dealers to access any data generated by the use of, collected by, or stored in the JDLink / ZXLink product or any device interfacing with the JDLink / ZXLink product ("Machine Data"). Purchase of the JDLink / ZXLink product, either separately or as part of a machine, signifies the purchaser's agreement that John Deere and John Deere dealers may collect, use and disclose the Machine Data as outlined in John Deere's Machine Data Policy (www.JohnDeere.com/MachineDataPolicy). Purchasers may remove dealers' or John Deere's access to Machine Data via the Deere Telematics website (JDLink.Deere.com). However, removal of John Deere's access to Machine Data will prevent the purchaser from viewing Machine Data and from using the Service ADVISOR Remote service. Machine Data may be transferred out of the country where it is generated, including to the U.S.A.

CZ76372,0000542-19-26NOV12

JDLink™ Functions

NOTE: Not all functions are included in all levels of service. Contact your John Deere dealer or visit StellarSupport.com for more information.

NOTE: Not all levels of service are available in all countries. Contact your John Deere dealer or visit StellarSupport.com for availability.

NOTE: Not all levels of service are compatible with all machines. Contact your John Deere dealer or visit Stellar Support.com for complete list.

JDLink™ offers the following functions, depending on level of service:

Function	Description
Machine states	Ag machines are monitored by the following machine states: Idle, Working, and Transport. Detailed states are available for some machine types. C&F machines are monitored by the following machine states: Key-On, Idle, Low Load, Medium Load, and High Load. (Reference Help on JDLink™ website for more information, including machine state definitions for each machine type.)
Road map and satellite map location and driving directions	Map displays location of a machine when it last called in using Esri® mapping service. Map can be displayed as street map, satellite imagery with no street info, satellite imagery with street map overlay, or land contour map with street map overlay. Selecting machine icon lets user generate driving directions to or from machine.
Machine hours	Machine hours displays hours that a machine was on or off and the dates that hours were reported. User can use time filter to view hours for a specific date range.
Geofence and curfew alerts	Geofence allows user to set up a defined area. An alert can be set up to notify owner if machine enters or exits that specific geofence. Curfew alerts feature enables users to set when a machine should be allowed to turn on. For example, if users only want a machine to operate from 9 a.m. to 5 p.m., and that machine is started at 6:05 p.m., an alert is sent to the users. These alerts can be sent through e-mail or SMS text message, depending on operator's preference.

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Service ADVISOR is a trademark of Deere & Company

Function	Description
Hours of operation	Hours of operation function displays hours and time of day a machine was running or shutdown by month. Monthly reports can be printed or exported as either CSF or PDF files.
Export or scheduled e-mail report	Engine Hours Usage and Remote Display Access reports can be requested as e-mail reports. Alerts, Ultimate—Utilization, Ultimate—Fuel, and Maintenance reports can be scheduled to be e-mailed to up to five recipients at a specified frequency.
Service ADVISOR™ Remote	Service ADVISOR™ Remote (SAR) allows dealer technician to remotely access diagnostic trouble code information, create readings and recordings, and program controllers without having to visit the machine. (Reference Operating—Service ADVISOR™ Remote for more information).
Advanced machine utilization	MTG records data from sensors throughout the machine. The types of advanced machine utilization data collected vary by machine type and model. One example of machine utilization information is a table with amount of fuel consumed by each machine. Other examples are average fuel rate, average ground speed, average engine speed, and average coolant temperature.
System usage information (percent of AutoTrac™ utilization)	System usage information displays the amount of time that certain components and features of the machine are in use (for example, AutoTrac™ or IVT™).
Maintenance management	Maintenance profile allows users to view when their machines are coming due, are due, or are overdue for maintenance. Users may elect to allow third-party access to their local John Deere dealer, so maintenance can be scheduled right away.
Remote diagnostics using diagnostic trouble codes	JDLink™ can alert users when one of their machines issues a diagnostic trouble code. Managers can view the code on the website to know exactly which codes have been generated on the machine. Users can give a dealership access to their JDLink™ account to view maintenance profile of their machines. Users can also set up their account to send alerts to a dealership through E-mail or SMS text.
John Deere Remote Display Access (RDA)	RDA enables user to view the display of a machine being operated in the field live on an internet-connected device such as a computer, tablet, or smartphone.
John Deere Wireless Data Transfer (WDT)	WDT enables user to upload setup data and prescriptions to and download documentation data from a display using the MTG.

Esri is a trademark of Environmental Systems Research Institute, Inc.
Service ADVISOR is a trademark of Deere & Company
AutoTrac is a trademark of Deere & Company
IVT is a trademark of Deere & Company

AE77568,00001F8-19-28JUN16

Satellite Module Service Level

When the Satellite Module is in use, data from several JDLink™ functions are transferred from the machine to the website. However, not all functions are supported by the Satellite Module. The MTG is able to store this remaining data not sent by the Satellite Module for up to 1000 hours. On the next cellular call, the most recent 1000 hr of stored data is transferred to the website from the MTG.



PC15291—UN—26NOV12

A—Satellite Icon

There are currently nine data items that are common across John Deere agricultural machines regardless of service level with satellite access capability. These are listed below. To confirm that the Satellite Module is calling in and the MTG has a satellite configuration, check the website. On the “Terminal Setup” tab, both the “Communication” and “Last Call In” should show a satellite icon (A).

- Fuel Tank Level
- Fuel Utilization
- Last Engine Hour meter
- Machine Utilization
- Max Coolant Temp
- Max Hydraulic Oil Temp
- Max Transmission Oil Temp
- Number.Aborted.Regen
- Number.Complete.Regen

HC94949,0000B0E-19-15FEB17

Mobile to Machine

Mobile to Machine is a feature available on the 4600 CommandCenter™ and the SolutionsPlus application. Mobile to Machine configures the modular telematics gateway (MTG) as a point of access for mobile devices and provides access to third-party software information.

To configure the 4600 CommandCenter™:



PC17269—UN—15JUL13

Menu Button

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CommandCenter is a trademark of Deere & Company

1. Select Menu button.



PC24253—UN—19MAY17

System Tab

2. Select System tab.



PC23092—UN—26SEP16

Wireless Settings Button

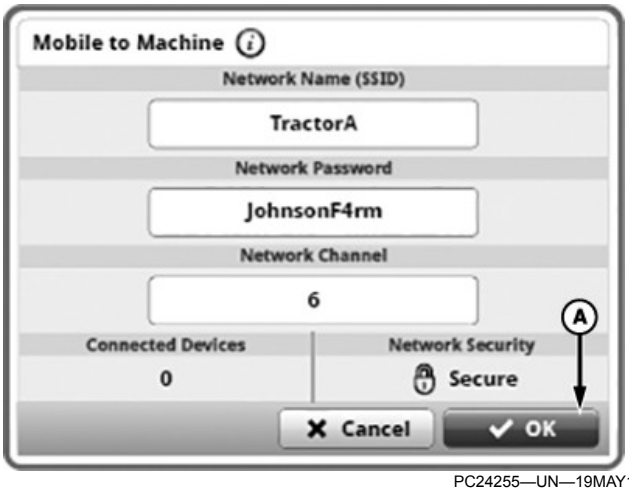
3. Select Wireless Settings button.



PC24254—UN—19MAY17

A—Toggle Bar

4. Toggle Mobile to Machine ON (A).



PC24255—UN—19MAY17

A—OK Button

NOTE: A default network name and password generate automatically.

Network name must be 8—13 characters in length.

Network password must be 8—21 characters in length.

5. Enter a unique network name and password. Select OK button (A).
6. On the mobile device, search for the MTG network name. Select the network and enter the password.



PC24256—UN—19MAY17

A—Edit Button

To change the network name or password or to view the number of connected devices, navigate to the Wireless Settings page and select the Edit button (A).

To configure a mobile device:

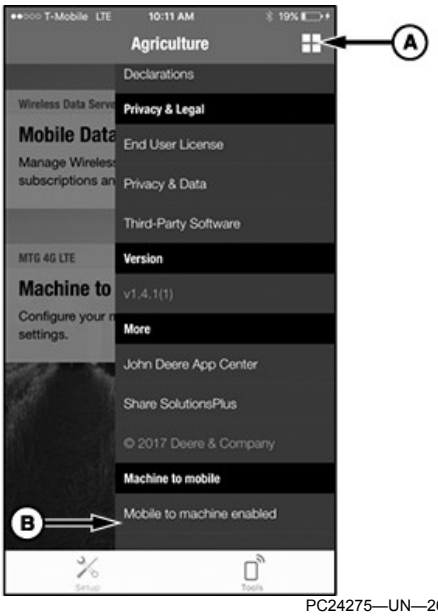
1. Launch SolutionsPlus application on the mobile device.
2. Select the appropriate industry.



PC24274—UN—26MAY17

Tools

3. Select Tools at the bottom of the screen.



PC24275—UN—26MAY17

A—Menu
B—Mobile to Machine

4. Select Menu (A) in the top right-hand corner of the screen.
5. Verify that Mobile to machine is enabled. If not, select Mobile to machine (B).



PC24276—UN—26MAY17

Mobile to Machine

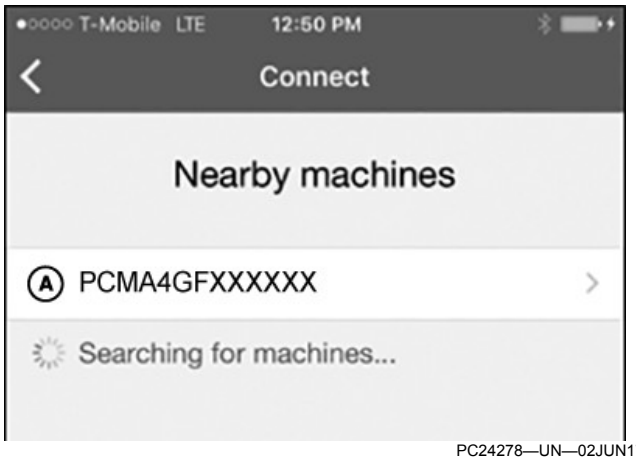
6. On the Tools page, select Mobile to Machine.



PC24277—UN—26MAY17

Get Started Button

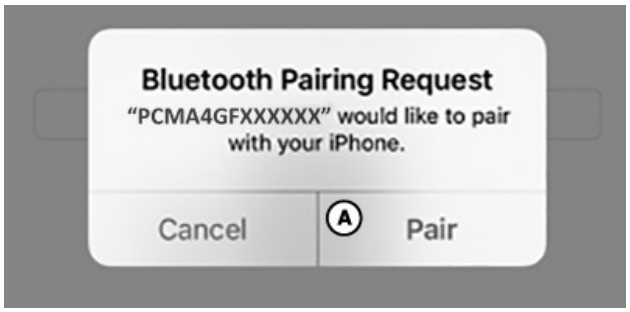
7. Select Get Started button.



PC24278—UN—02JUN17

A—Available Machine

8. Select desired machine (A).



PC24279—UN—02JUN17

A—Pair Button

9. Select Pair button (A) to connect to the machine.



PC24280—UN—26MAY17

Save Button

10. Enter Network Password and select Save button to complete the connection.

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Components

JDLink™ system comprises the following hardware components:

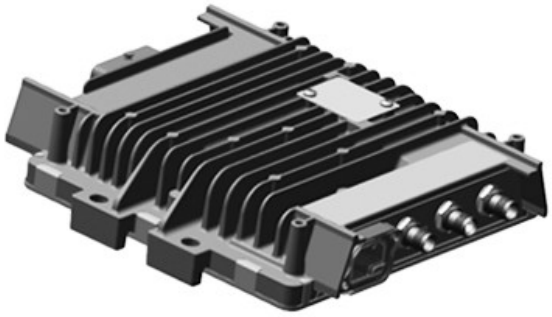
- Modular Telematics Gateway
- Cellular, GPS, and Wireless Antenna
- Wireless Antenna (may not be included depending on machine type)
- Satellite Module and Antenna (optional)
  - Satellite Module (select regions only)
  - Satellite Antenna (select regions only)

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- Ethernet Switch (may not be included depending on machine type)

AE77568,00001F1-19-15JUN16

Modular Telematics Gateway

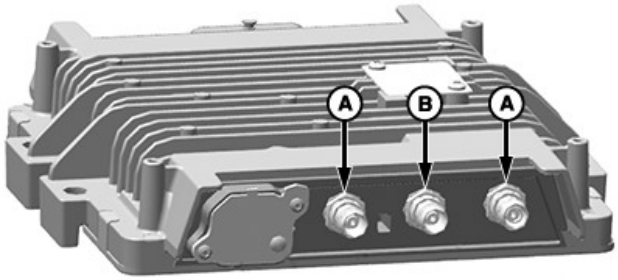


PC22020—UN—15JAN16

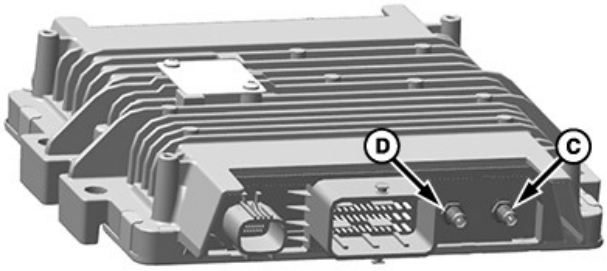
Modular Telematics Gateway

Modular Telematics Gateway (MTG) 4G LTE contains a:

- Main processor
- Cellular modem
- GPS chipset
- Subscriber Identity Module (SIM) card slot for customer-owned SIM in applicable countries
- Communications ports for the system
- LED status indicator
- Bluetooth® and wireless functionality



PC22629—UN—12MAY16

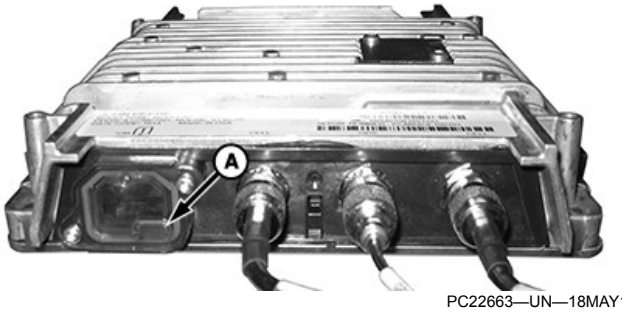


PC22024—UN—27JAN16

A—Cellular Connector
B—GPS Connector
C—Wireless Connector—High Performance / Low Profile Antenna
D—Wireless Connector—Wireless Antenna

NOTE: The two cellular connectors (A) on the Modular Telematics Gateway (MTG) are interchangeable.

The MTG utilizes coaxial TNC connectors for both GPS and cellular. In order to prevent incorrect connections, the connectors use reversed plugs and receptacles. The GPS connector (B) is a TNC plug and the cellular connectors are TNC receptacles. The matching connectors for cellular, GPS, and wireless are integrated into the antenna cable. On the opposite end of the MTG, there are two SMA connectors for wireless. The wireless connector on the right (C) is for the High Performance or Low Profile antenna. The wireless connector on the left (D) is for the Wireless antenna. To prevent incorrect connections, wireless connectors use reverse polarity.



PC22663—UN—18MAY16

A—LED Status Indicator

LED status indicator (A) indicates current state of the MTG.

NOTE: Once the MTG is booted up, the LED status indicator cycles through each active feature color. The LED status indicator blinks off between each cycle.

- **Solid Off**—Off or sleep mode
- **Solid Amber**—Booting up
- **Blinking Amber**—Awake but no active communication
- **White**—Calling in
- **Blue**—GPS active

Bluetooth is a trademark of Bluetooth SIG

- **Green**—Cell active
- **Magenta**—Wireless active

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Cellular, GPS, and Wireless Antenna

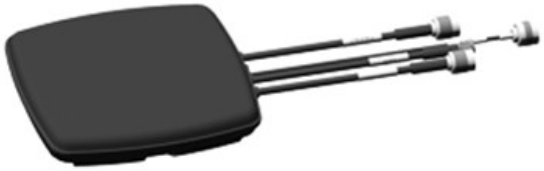
The two antennas are:



PC22042—UN—19JAN16

High Performance Antenna

- High Performance: Provides the highest gain, longest range, and best performance.



PC22043—UN—18JAN16

Low Profile Antenna

- Low Profile: Has a shorter physical height than High Performance antenna.

Each antenna has four separate coaxial cables, two for cellular, one for GPS, and one for wireless. All the cables are bundled together within a single housing for ease of mounting.

NOTE: For best field performance, use High Performance antenna whenever possible.

GPS accuracy is degraded if there is not a clear view of the sky. GPS signal cannot be received inside a building.

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Wireless Antenna



PC22092—UN—27JAN16

Wireless Antenna

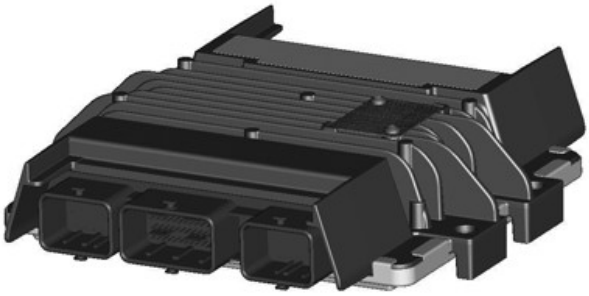
Wireless antenna is used for close proximity or in-cab wireless connectivity.

AE77568,00001F6-19-26MAY16

Satellite Module and Antenna

Satellite Module

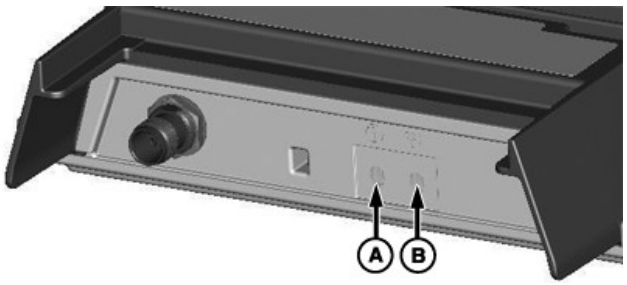
NOTE: Satellite Module is not offered and usage is not legal in all regions. Check with your John Deere dealer for availability.



PC12694—UN—19JUL10

Satellite Module

Optional Satellite Module is intended to be a slave to the modular telematics gateway (MTG), and does not function properly as a standalone. In locations with poor cell coverage, the Satellite Module can be used to communicate instead of the MTG.



PC15191—UN—31MAY12

Satellite Module Header

A—Power Indicator
B—Network Available Indicator

The Satellite Module utilizes a single coaxial TNC connector for the antenna. The connector is a TNC receptacle. The matching connector is integrated into the antenna cable. There are two LED indicators on the

end for the Satellite Module. The power indicator is on the left (A) and the network available indicator on the right (B). The power indicator LED (Green) glows whenever the module is commanded on by the MTG, and the network indicator LED glows (Red) when the Satellite Module detects the satellite network.

Satellite Antenna



PC12642—UN—11JUN10

Satellite Antenna

NOTE: Satellite Antenna is not offered and usage is not legal in all regions. Check with your John Deere dealer for availability.

The Satellite Antenna sends and receives messages from the Satellite Module.

HC94949,0000B13-19-16FEB17

Ethernet Switch



PC19634—UN—15MAY14

Ethernet Switch

Ethernet switch OCTOPUS 5TX-EEC has been especially designed for use in agricultural environments. It supports Ethernet 10 MBit/s and Fast Ethernet 100 MBit/s. Ethernet switch modules support switched Ethernet networks in accordance with IEEE standard 802.3 (10BASE-T) or 802.3u (100BASE-TX) using copper technology. Switch modules are fitted at installation site using screws. OCTOPUS 5TX-EEC modules have five 10/100 Mbit/s twisted pair ports (10BASET/100BASE-TX, shielded M12 connectors). It is possible to connect up to five DTE (data terminal equipment) or other TP/TX network segments to these ports using twisted pair cabling. TP ports support auto negotiation, autopolarity, and autocrossing. Ethernet switch conforms with protection class IP67 (protection against shock and foreign particles: dust proof, water protection: protected against the effects at temporary immersion in water). This device offers an IP-based Quality of Service (QoS) function.

NOTE: Ethernet Switch is not a required component of the JDLink™ System.

If equipped, this device is intended to allow Ethernet connection to modular telematics gateway (MTG) for more than one device offered by John Deere.

Installation of this Ethernet Switch requires a hardware installation kit. Contact your John Deere dealer for purchasing, installation, and support. Installation instructions may be found with the help of your John Deere dealer.

AE77568,000001A-19-03MAR15

Ethernet Switch Operating Voltage

Ethernet Switch Operating Voltage	
Rated Voltage Range	12—24 V DC
Minimum Voltage Range	9 V DC
Maximum Voltage Range	32 V DC

AE77568,000001B-19-24FEB15

Website Login

Creation of a Customer Account is required for new JDLink™ customers. Contact your John Deere dealer for assistance with creating a user name and password for your JDLink™ account.

When entering JDLink™ website, operator is prompted to enter user name and password. Operators with access to one organization are taken directly to their account. Operators with access to multiple organizations are provided a drop-down list of their organizations. Select an organization to view the information for that account.

RW00482,00002FF-19-23MAY14

Getting Started

JDLink / ZXLink Setup

Setup for the MTG can only be done through the JDLink / ZXLink website or by the dealer via Service ADVISOR.

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NOTE: MTG cannot be set up using the machine or the GreenStar display.

Required Information

Your local John Deere dealer is responsible for transferring the JDLink terminal into the customer account. The following information will be needed for the transfer to be processed.

- Organization Information

  This is the account that manages all the terminals and users for a business or group.

- Customer User Name

  This profile will need to be the main user for the account so they can be setup as an administrator. This is also the same user name that the customer uses to access www.stellarsupport.com. If the customer does not have a Stellar Support profile, the dealership will need contact information to create the profile.

- Equipment Name

  This is the JDLink / ZXLink terminal or machine name the dealer will be transferring into the customer account.

New Transferred Terminal

Once the dealer has transferred the terminal to the customer's organization, the customer will then log in to the JDLink / ZXLink website using their user name and password. Once transferred, the user can change the terminal setup information and settings.

When the terminal is configured to the user's preferences, it is ready to go.

CZ76372,000053B-19-26NOV12

Website Navigation

JDLink™ User Guide

Select Help within the JDLink™ website to open the User Guide. The User Guide contains detailed information about navigating and using the website.

Website Icons



PC12706—UN—04JUN12

Website Icons

Pencil Icon— Edit button.

On/Off Icon— Turns features on or off.

Trash Can— Delete button.

Viewing Pane— A separate area in a split window.

Magnify Glass— Centers machine in map viewing pane.

Machine Key— Located in lower left-hand side of Dashboard page. A green circle next to machine name indicates that machine has JDLink™ Select active. A yellow circle next to machine name indicates that machine has JDLink™ Access, Ultimate, or Connect active. A blank or black circle next to machine name indicates that machine is inactive.

AE77568,00001FC-19-24MAY16

Overview

Service ADVISOR™ Remote (SAR) information in this manual is applicable to John Deere agricultural machines equipped with a compatible CommandCenter™ or GreenStar™ Display that communicates on the machine CAN Bus. SAR is not compatible with every machine equipped with a Modular Telematics Gateway (MTG).

(Refer to specific machine Operator's Manual for detailed SAR information.)

Theory of Operation

Service ADVISOR™ is a diagnostic tool used by John Deere dealers to perform diagnostics and updates to machine settings and software. Dealers can access diagnostic trouble codes and diagnostic addresses, create readings and recordings, and program controllers. This technology consists of software and hardware. Technicians attend a minimum of 8 hrs. of training to become certified in utilizing this tool.

SAR is a function of Service ADVISOR™ that allows the dealer technician to connect to an SAR-enabled machine using the JDLink™ network to remotely access diagnostic trouble code information, record diagnostic data, and program controllers.

Similar to software (payload) updates in the computer industry, SAR enables John Deere to deliver updated software remotely using onboard JDLink™ hardware. Remote programming gives John Deere the ability to update software to enhance machine performance. This capability can be used to reprogram most machine controllers. The user actively participates with the dealer in this process by downloading and installing the software update.

NOTE: Some machine controllers may not be compatible for SAR reprogramming.

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Service ADVISOR is a trademark of Deere & Company
CommandCenter is a trademark of Deere & Company
GreenStar is a trademark of Deere & Company

Machine Compatibility

NOTE: If equipped, Access Manager provides the capability to unlock, partially lock, or lock operator access to specific components, including the ability to download and install software updates.

(Refer to machine Operator's Manual for more details.)

For a current list of approved machines, contact your John Deere dealer or visit StellarSupport.com.

RW00482,00002E3-19-21MAY14

Vehicle Reprogramming



PC12691—UN—27JUL10

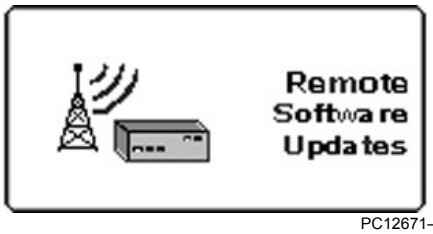
Software Update Available

With SAR dealers have the ability to send new software to a vehicle to update controllers. Once the dealer sends the software, a message will appear on the display stating that there is new software available. Pressing Accept will take the user to the software updates page.



PC8663—UN—29APR15

MENU button

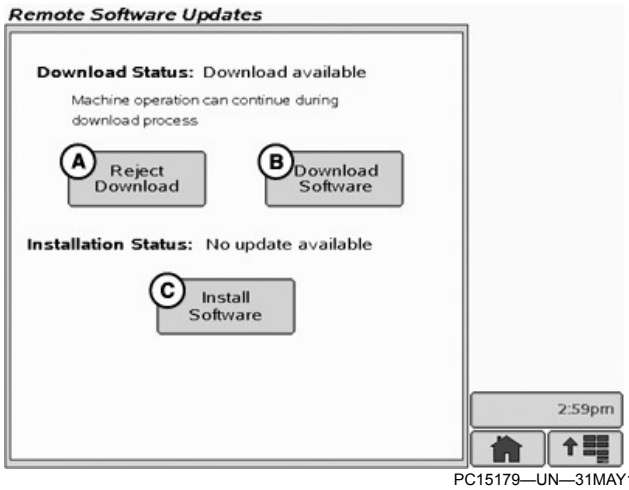


PC12671—UN—21JUL10

Remote Updates Menu Button

If the message is cancelled, the user can access the page by selecting the Menu button and then Remote Software Updates.

Download Updates



PC15179—UN—31MAY12

Remote Software Updates

A—Reject Download Button
B—Download Software Button
C—Install Software Button

On the Remote Software Updates page, the operator can either reject (A) or download (B) the new software. Pressing the Download Software (B) button will start the download process. This process will continue in the background and normal machine operation can continue.

Install Updates



PC12692—UN—27JUL10

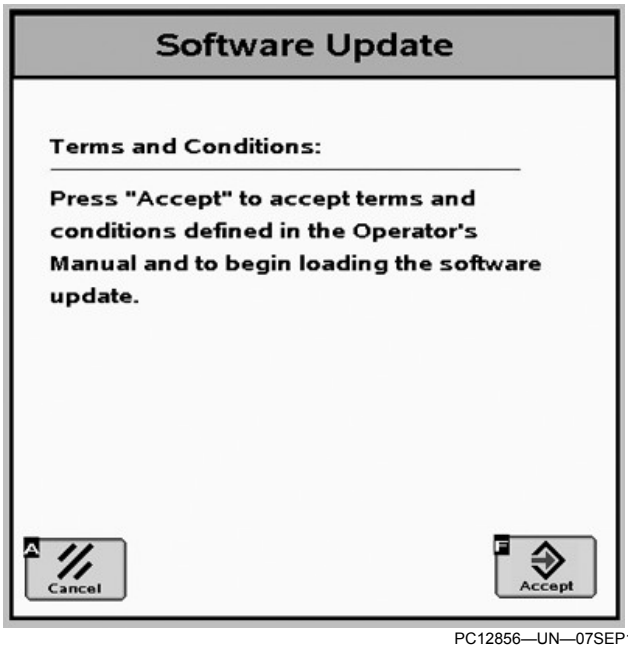
Update Ready for Install

Once the software has been downloaded and it is ready for installation, a message will appear on the display. Press the accept button to go to the Remote Software Updates page.

Software installation can take up to 40 minutes. Pressing the cancel button enables you to update the software at a later time if desired.

On the Remote Software Updates page, press the Install Software button to begin the installation process.

CAUTION: Some vehicle functions, including lights, may become inoperable during reprogramming. To avoid injury, ensure the vehicle is in a safe location and configuration before reprogramming. Do not reprogram near public roadways or in active work sites.



PC12856—UN—07SEP10



PC12672—UN—28JUN10



PC12857—UN—07SEP10



PC13582—UN—09MAY11

Once prompted, accept the terms and conditions and then follow the on screen instructions.

If there is a problem during the install process, the system will try a second install. If the second attempt fails, please contact your John Deere dealer.

HC94949,0000B11-19-15FEB17

Troubleshooting — Reprogramming

Symptom	Problem	Solution
Accessory Power Lost	Engine started or key turned off.	Do not start engine or remove power while software updates are being installed. Turn key off and return to ON position.
Voltage Low	The system voltage is too low to proceed with the software installation.	Turn off or remove accessories that are unnecessary. Check battery voltage and recharge battery if necessary.

Symptom	Problem	Solution
Communication Fault	The software installation cannot be completed because of a communications fault.	Turn key off and then back to on. Then retry software installation. Contact a John Deere dealer if communication cannot be established.
Remote Software Updates button is not on display. *NOTE: Remote Software Updates should be available at all times, whether there is a payload or not.*	Cannot access Remote Software Updates page on the display.	Check harness and connections to MTG.

JS56696,0000A25-19-16NOV15

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OUCC002,0005E12-19-06SEP18

Electrical Specifications

Modular Telematics Gateway and Satellite Module

- Input Voltage—The voltage range for switched and unswitched power 9-32VDC.
- Fuse recommendations—The device should be protected with a 10A fuse maximum.

CZ76372,000010B-19-10JUN11

John Deere Machine Communication Radio (If Equipped)

Theory of Operation

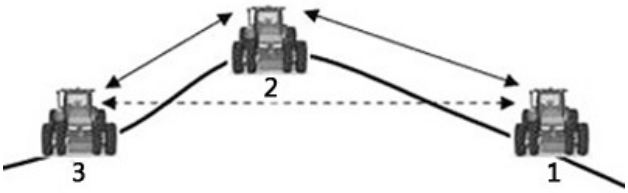
Machine Communication Radio Theory of Operation

The Machine Communication Radio (MCR) is a 2.4 GHz wireless network radio that acts as a wireless router to enable direct data exchange between machines in a single network. A network is established by radios that have a direct line-of-sight to repeat data to other radios on the same frequency channel up to a 3 mile radius for the high power radio. The data transmitted between radios communicates speed, position, and heading of machines in the network. This information is sent to each display via Ethernet communication which the 2630, with Machine Sync activation, processes along with any additional Machine Sync-related information that is coming from the machine controllers. This network allows the sharing of logistics information and facilitates on-the-go unloading.

The filter kit included in the installation kit eliminates interference caused by other high power wireless devices, such as business band radios.

Line-of-Sight Notes

The MCR is a line-of-sight system. Any obstructions, such as trees, hills, or parts of the machine, that block antennas from having direct line-of-sight decrease the system's range. Visual line-of-sight between machines does not define the radio's line-of-sight. For example, although two machines may physically see each other, their antennas may not have clear line-of-sight due to rolling terrain, causing poor or no network connectivity.



PC16375—UN—11DEC12

MCR Mesh Network

Multiple MCRs create a mesh network where each radio serves as a repeater for other radios. Information transmits along a path from radio to radio until the destination is reached. When line-of-sight is unavailable between the two radios trying to communicate, additional radios that do have line-of-sight with the original radios trying to communicate can allow the information to be passed. The graphic illustrates this concept. Tractor 1 is trying to communication with tractor 3, but a hill is obstructing line-of-sight. Tractor 2's antenna has line-of-sight with both tractors 1 and 3; therefore, tractor 2 acts as a rrepeater, and allows the information to be communicated between tractors 1 and 3.

As a result, the network reliability has the potential to be improved when more radios are in the network as there is often more than one path between the source and destination. This is helpful for populating and updating the logistics map.

RW00482,000015E-19-24APR13

Components



PC14281—UN—05DEC11

A—Power/Data (Ethernet)
B—Antenna (Coax)
C—LED

Radio

The MCR has an antenna connection, Ethernet connection, and an LED light for diagnostics.



PC16324—UN—04DEC12

A—Antenna
B—Coax Connector

Antenna

The MCR antenna is typically mounted on the cab roof. It requires line-of-sight with another MCR antenna in the network. The MCR antenna has a yellow band to differentiate it from other similar antennas.



PC16659—UN—05MAR13

A—High Pass Filter
B—TNC Plug
C—TNC Jack

High Pass Filter

The High Pass Filter is used to reduce the possibility of radio interference from other wireless devices.



PC14500—UN—25JAN12

A—Machine Communication Radio Connector
B—Ethernet Connectors
C—Power Connector
D—Ethernet Port
E—Antenna Port

Y-Harness

The Y-harness connects to the Machine Communication Radio connector (A), ethernet connectors (B) and power connector (C).

RW00482,00000FE-19-23APR13

Create Network

1. Ensure that Power/Data cable is properly installed (A). When radio has power, the LED (C) on radio turns green. To install radio, refer to Machine Communication Radio Assembly Instructions.



PC14281—UN—05DEC11

A—Power/Data (Ethernet)
B—Antenna (Coax)
C—LED

NOTE: MCR LED blinks until it has been correctly configured. When LED is solid, the radio is correctly configured (network name and ID are set). Once the radio is configured, it is ready to join other radios in the network.

2. On GS3 display, press Menu button and select GS3 button.



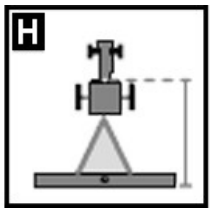
PC8663—UN—29APR15

MENU button



PC12685—UN—29APR15

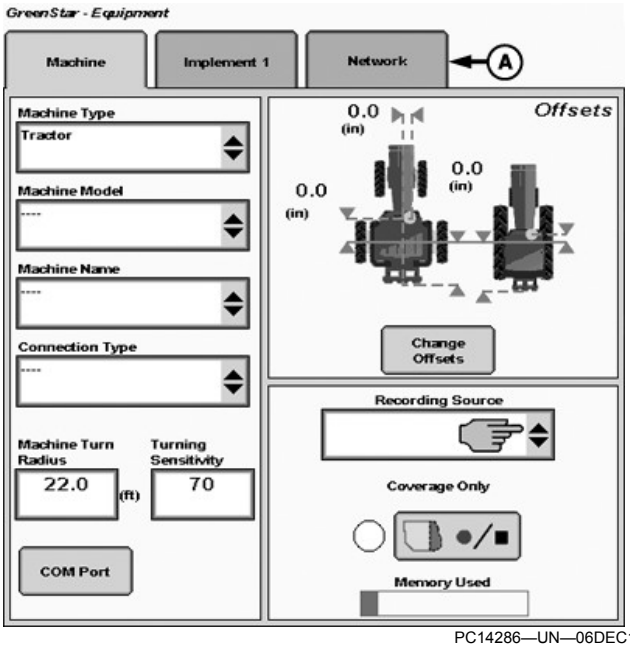
GREENSTAR 3 PRO button



PC8677—UN—05AUG05

EQUIPMENT softkey

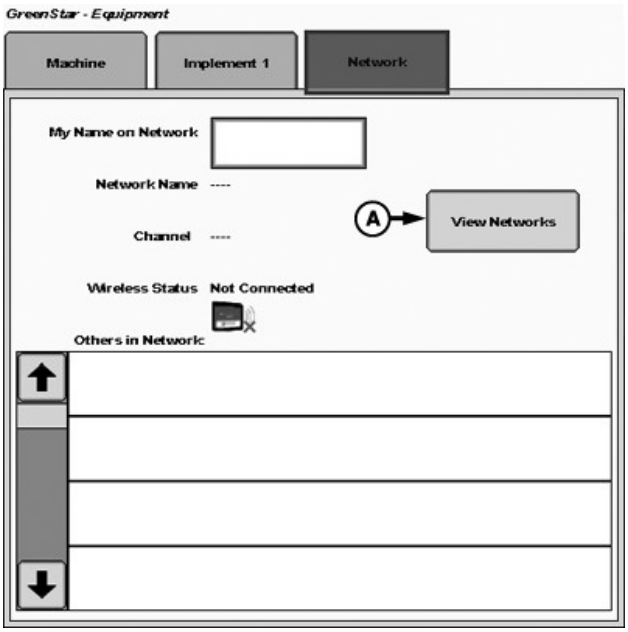
3. Select Equipment softkey on the right side of main menu.
4. From Equipment screen, select Network tab.



PC14286—UN—06DEC11

A—Network Tab

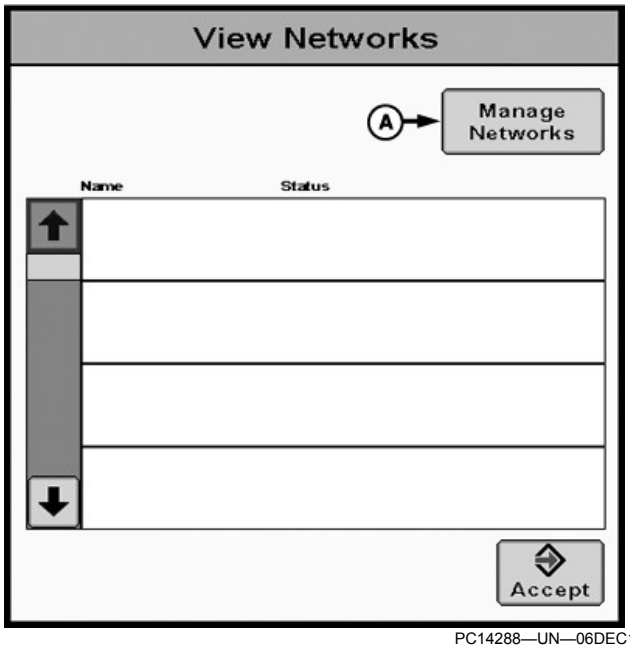
5. Select View Networks.



PC14287—UN—06DEC11

A—View Networks

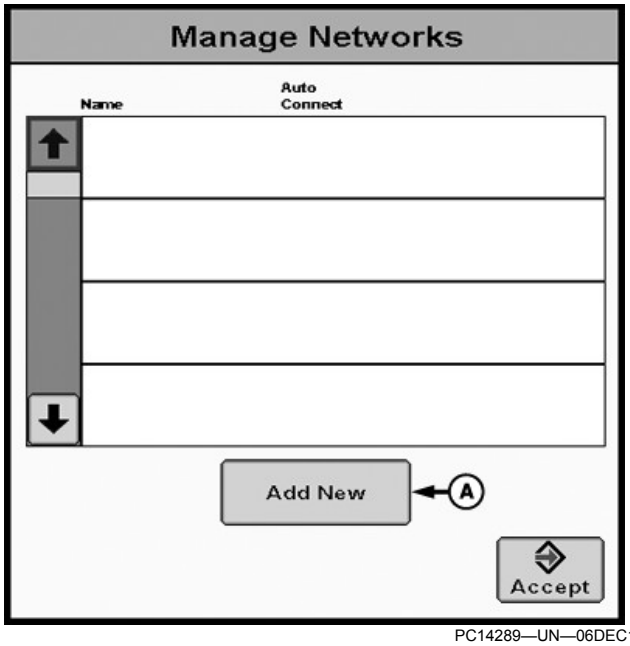
6. Select Manage Networks button.



PC14288—UN—06DEC11

A—Manage Networks

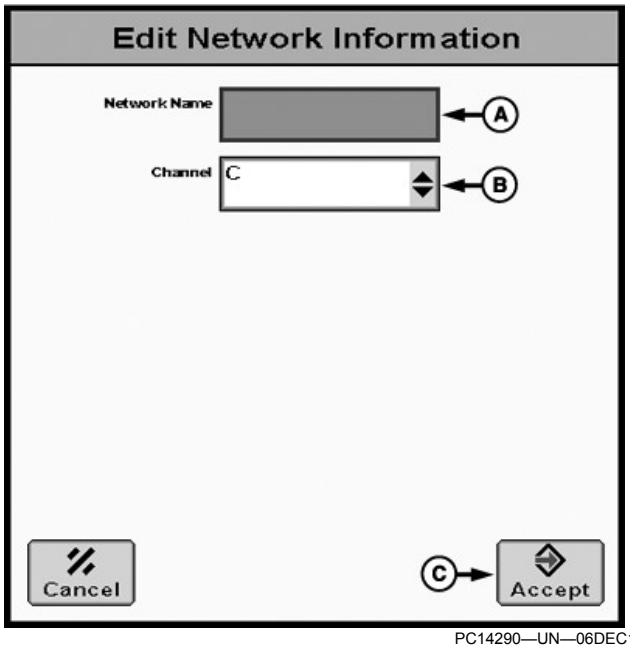
7. Select Add New on manage networks screen.



PC14289—UN—06DEC11

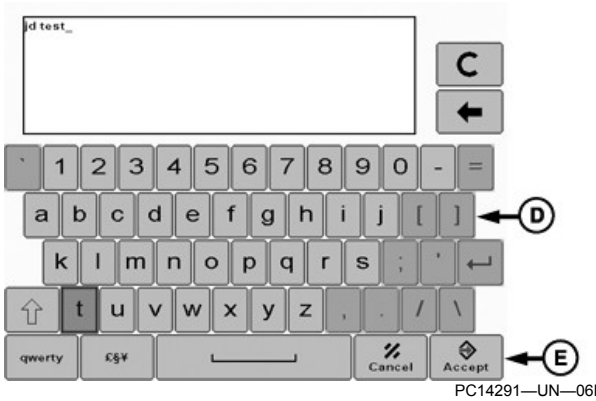
A—Add New

8. Select Network Name box and use keyboard to type name of new network. Once network name is entered press Accept button.



PC14290—UN—06DEC11

A—Network Name



PC14291—UN—06DEC11

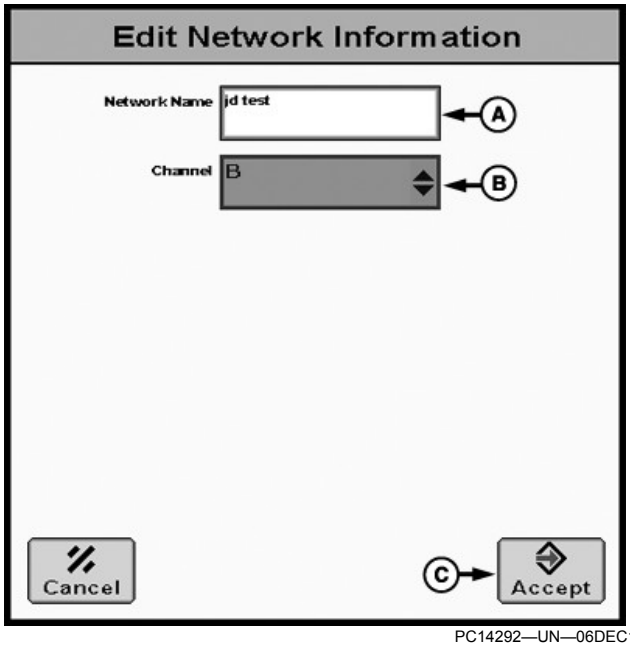
A—Network Name
B—Channel
C—Accept Button
D—Keyboard
E—Keyboard Accept Button

NOTE: Network Name must be 6-20 characters in length and can contain lower case letters (a-z), numbers (0-9), spaces, hyphens or dashes, and underscores.

9. Select a Channel on Edit Network Information screen

NOTE: For more details regarding channel selection, see the Radio Specifications section.

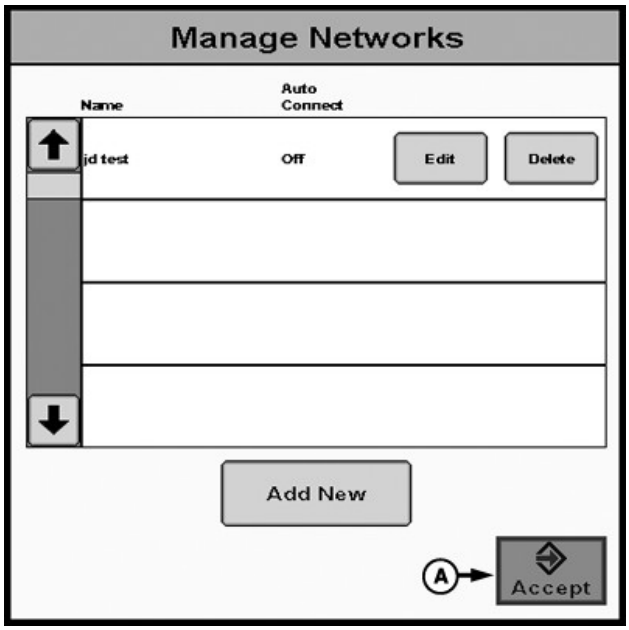
10. Select Accept button once Network Name and Channel are set. The new network now exists on Manage Networks screen.



PC14292—UN—06DEC11

A—Network Name
B—Channel
C—Accept

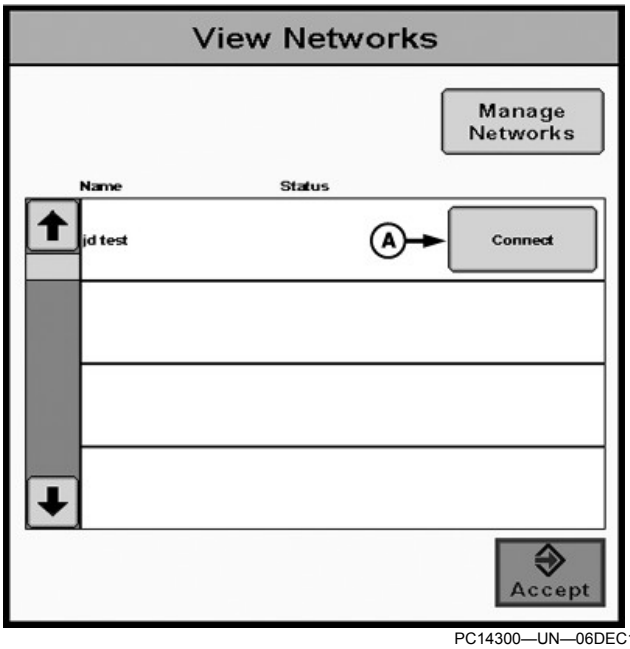
11. Select Accept button on the Manage Networks screen. The new network now exists on View Networks screen.



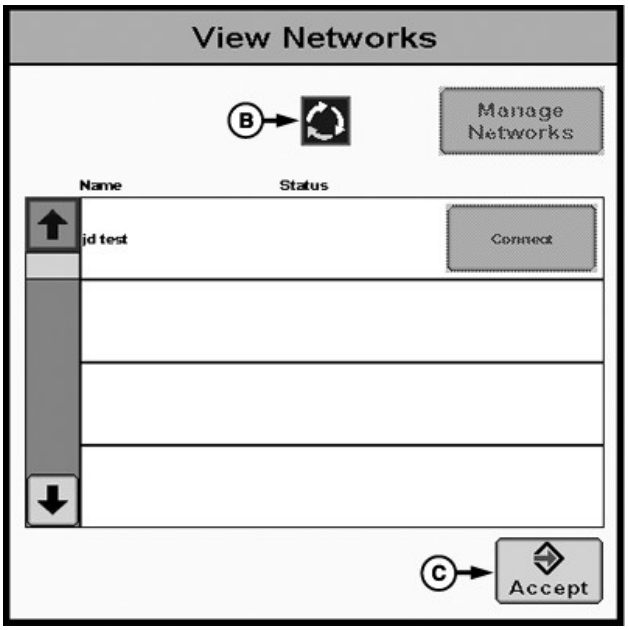
PC14293—UN—06DEC11

A—Accept

12. Next to the network name, select Connect button to join. A status symbol with three arrows in a circular formation appears. This step can take up to 90 seconds to complete. Press Accept button to return to Network tab during (or after) this time.



PC14300—UN—06DEC11



PC14295—UN—06DEC11

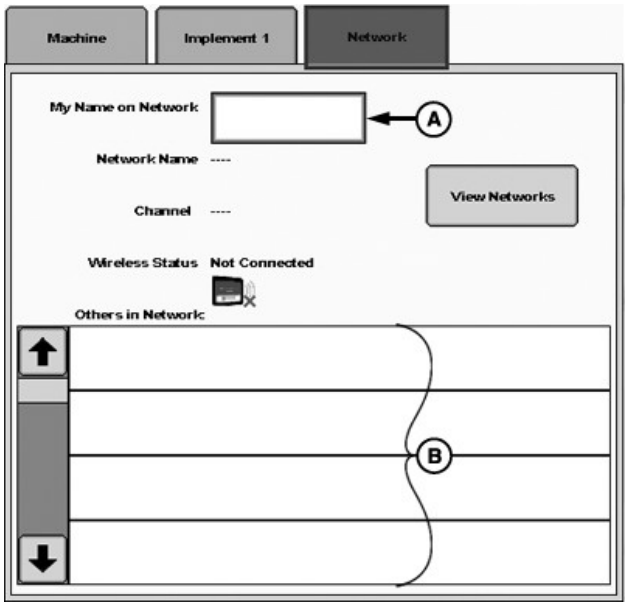
A—Connect
B—Status
C—Accept Button

NOTE: While connecting, Data Transfer (Import/Export Data) feature is disabled.

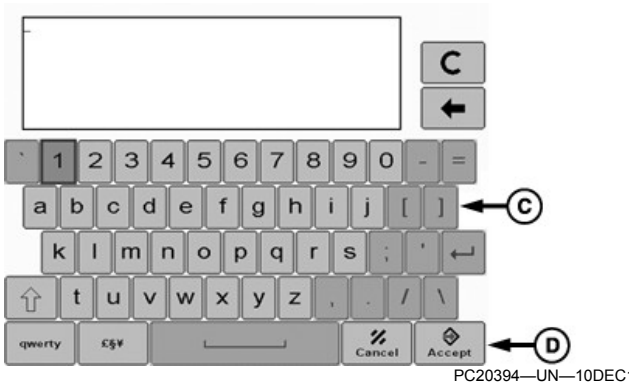
NOTE: Each display must add each network to its network list. Repeat previous steps to add networks to each display. Every machine in network must connect to same network, even if there is no one else in network yet.

RW00482,0000153-19-19APR13

Set My Name on Network



PC20393—UN—10DEC14



PC20394—UN—10DEC14

A—My Name on Network
B—Others in Network List
C—Keyboard
D—Accept Button

My Name on Network (A) is the name for this machine on other machines' displays. This name is shown on the Others in Network list (B) and in the on-screen maps.

NOTE: My Name on Network can be 0-8 characters in length, contain upper case letters (A-Z), lower case letters (a-z), and numbers (0-9).

1. Select My Name on Network, and use keyboard (C) to name machine.
2. Select Accept button (D).

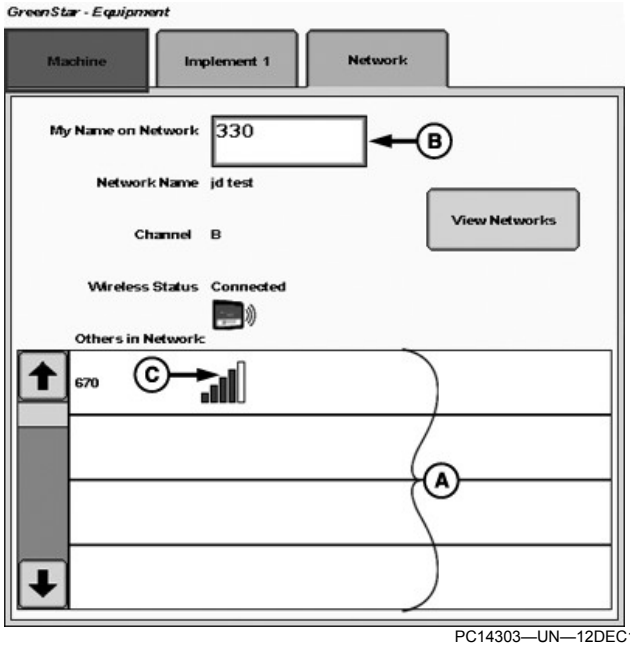
SF04007,0000761-19-10DEC14

Verify Network Functionality

To communicate, all machines in the network must:

- connect to the same Network, having identical Network Name and Channel

- be within communication range and have clear line-of-sight between machines
- have the same display software version
- have the same radio firmware version



PC14303—UN—12DEC11

A—Others in Network List
B—My Name on Network
C—Network Signal Strength

All other machines in network are displayed in Others in Network list (A).

The name shown in this list is the name entered for My Name on Network (B) on other displays.

Other machines appear in the list as they come into range or join the network.

Five bars next to each machine in Others in Network list represents network signal strength (C). Bars are filled with color based on signal strength between your machine and machine in list.

SF04007,0000762-19-10DEC14

Update Radio Software

1. Plug radio into display with Ethernet cable and make sure radio is powered.
2. Insert USB drive with new radio software in to GS3 display. Power up display.
3. Select Main Menu button. Select Message Center. Select Reprogram softkey.



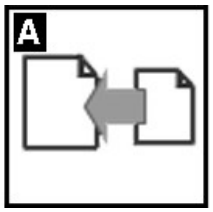
PC8663—UN—29APR15

MENU button



PC12868—UN—16SEP10

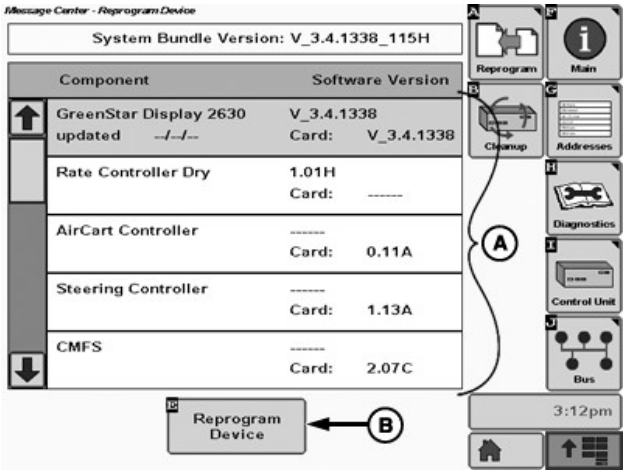
MESSAGE CENTER button (With Info Icon)



PC8665—UN—05AUG05

COMPONENTS AND SOFTWARE VERSIONS button

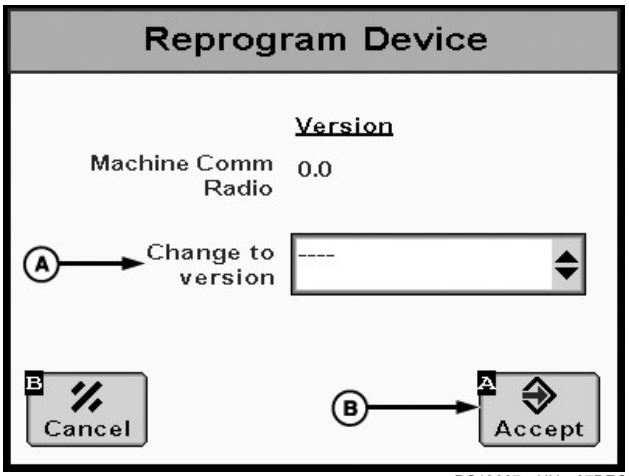
A—Controller List
B—Reprogram Device



PC13666—UN—07DEC11

A—Controller List
B—Reprogram Device Button

4. Highlight MCR in controller list (A) and select Reprogram Device (B).



PC13667—UN—07DEC11

A—Change to Version
B—Accept Button

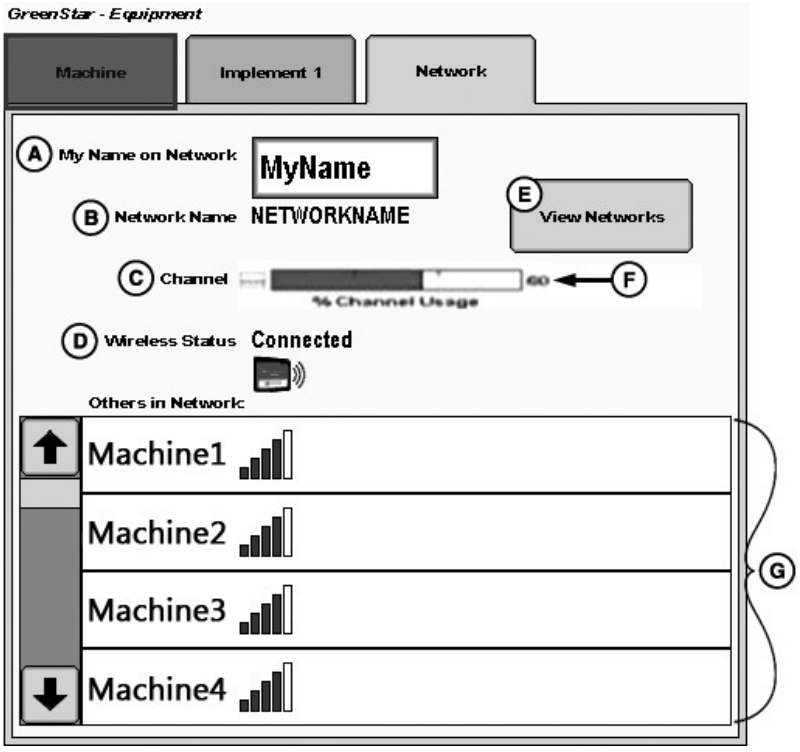
5. Select the new software version in Change To Version (A) drop down box.
6. Select Accept (B) button to start update.

NOTE: Do not backdate software.

Removing power during reprogramming may result in update failure.

HC94949,00001AB-19-04DEC12

Network Tab



PC16407—UN—13DEC12

Network Tab

A—My Name on Network
B—Network Name
C—Channel
D—Wireless Status
E—View Networks
F—Channel Quality Indicator
G—Others in Network List

My Name on Network

- The name shown on machines' Others in Network list. See Set My Name on Network for more information.

Network Name

- The name of the currently connected network. Shows "----" if not connected. See Create Network for more information.

Channel

- The communication channel of the currently

connected network. Shows empty if not connected. See Radio Specifications for more information.

Wireless Status

- Shows Connected when your machine is communicating with at least one other machine. See Verify Network Functionality and Radio Troubleshooting for more information.

View Networks

- Select to connect to or disconnect from networks. Use to create, edit, or delete networks. See Create Network for more information.

Channel Quality Indicator

The Channel Quality Indicator bar is used to determine the best channel to use. If red appears, switch to another channel.

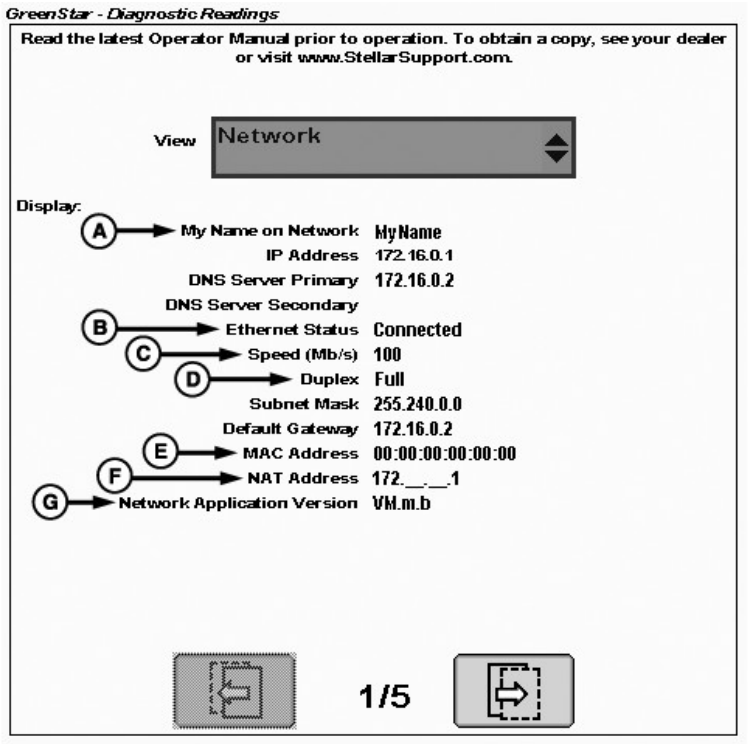
- Green—Good
- Yellow—Marginal
- Red—Poor

Others in Network list

- Each row in the list is one machine. Machine's name (My Name on Network entered on other display) appears first. Machine's signal strength appears second.

RW00482,0000155-19-19APR13

Network Diagnostics



PC13679—UN—12DEC11

GS3 Network Diagnostics Page 1

A—My Name on Network
B—Ethernet Status
C—Speed
D—Duplex
E—MAC Address
F—NAT Address
G—Network Application Version

My Name on Network

- The name shown on vehicles' "Others in Network" list. See Set My Name on Network for more details.

Ethernet Status

- Shows "Connected" if 2630 is connected to MCR, MTG, or other Ethernet enabled device.

Speed

- Shows speed of the Ethernet connection on the 2630. Speed should be "100" Mbps. If "10" is

displayed, there may be fault in the Ethernet cable(s), the 2630 hardware, or the MCR hardware.

Duplex

- Normal operation will display “Full”. If “Half” is displayed, there may be fault in the Ethernet cable(s), the 2630 hardware, or the MCR hardware.

MAC Address

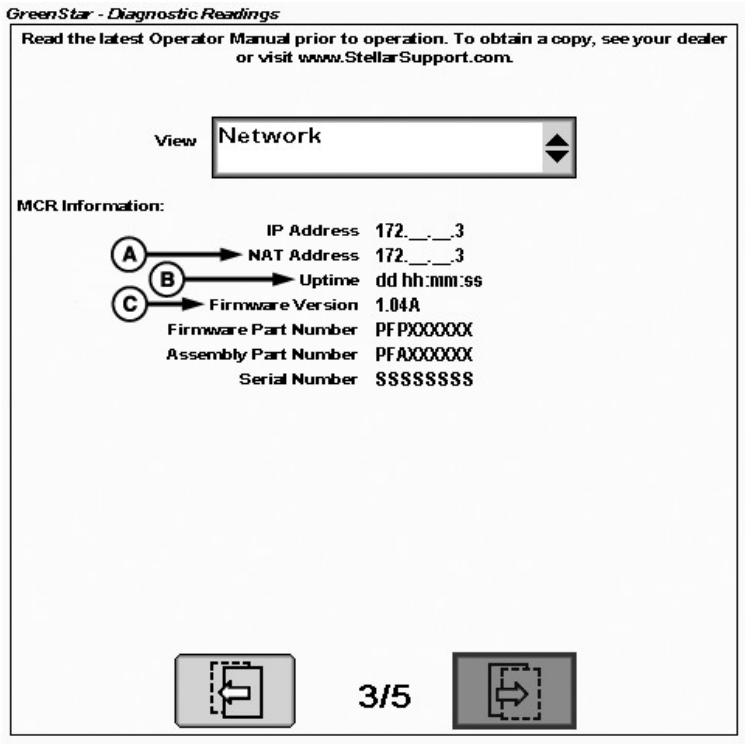
- Unique identifier for 2630 on Network. All displays must have unique MAC Address.

NAT Address

- Unique identifier for 2630 on Network. All displays must have unique NAT Address.

Network Application Version

- Version number for communication sub-assembly. All displays and devices on Network must have same (or compatible) version number.



PC13680—UN—12DEC11

GS3 Network Diagnostics Page 3

A—NAT Address
B—Uptime

NAT Address

- Unique identifier for MCR on the network. All MCRs must have a unique NAT address.

Uptime

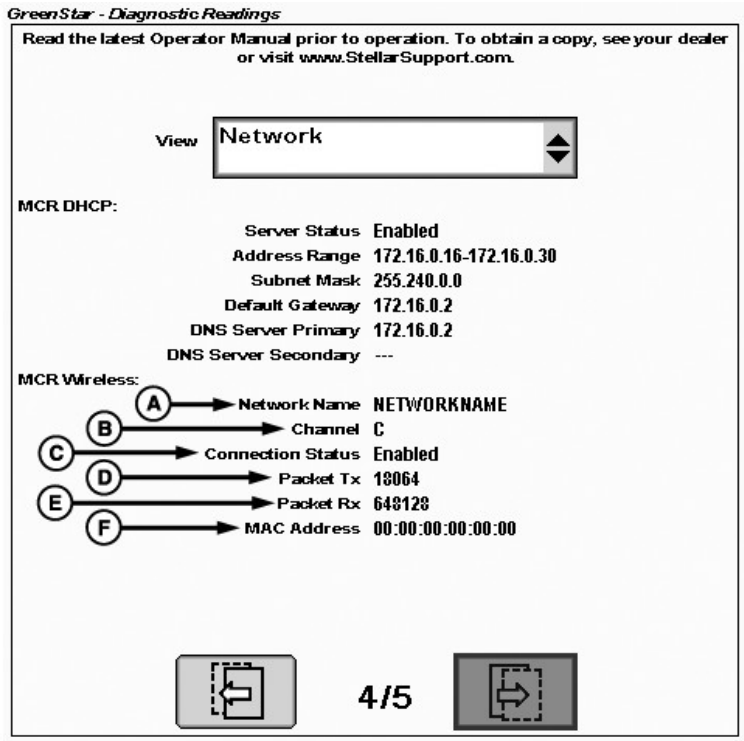
- Amount of time MCR has been running. The MCR will reset each time the machine cycles keyed power. If

C—Firmware Version

run time does not reasonably match time since machine keying, there may be a wiring harness fault or configuration failure.

Firmware Version

- Software installed on MCR. All MCR’s in the network must have the same firmware version. See Update Radio Software for MCR reprogramming instructions.



PC13681—UN—12DEC11

GS3 Network Diagnostics Page 4

A—Network Name
B—Channel
C—Connection Status
D—Packet Tx
E—Packet Rx
F—MAC Addres

Network Name

- The name of the currently connected network. Shows "----" if not connected. See Create Network for more information.

Channel

- The communication channel of the currently connected network. Shows empty if not connected. See Radio Specifications for more information.

Connection Status

- Shows "Enabled" when connected to a network, even if no machines are visible. Shows "Disabled" when disconnected from a network.

Packet Tx

- Number of messages transmitted from MCR.

Packet Rx

- Number of messages received from other MCR's.

MAC Address

- Unique identifier for MCR on Network. All MCR's must have unique MAC Address.

HC94949,00001B2-19-13DEC12

Radio Troubleshooting

Symptom	Problem	Solution
The radio does not show up on the display	The radio does not have power	Check the power/Ethernet cables, ensure connections are tight. Radio only operates on switched power. LED will illuminate green when power is properly connected.

Symptom	Problem	Solution
	Configuration	Check Connection Status on page 1 of diagnostics. Status should be Enabled when radio is powered and joined to a network. Ensure display software is updated.
The radio does not show up on OTHER displays	Network set up incorrectly	All radios must have an IDENTICAL Network Name and Channel in order to communicate with each other.
The radio exhibits decreased range	Faulty antenna path	Ensure that coax cable from the radio to antenna is in good shape, and that antenna is securely fastened. Ensure antenna is not broken.
	Low power availability	Ensure Ethernet cable is securely attached to the radio. Make sure the radio LED is green.
	Interference from outside sources	There may be an outside system interfering with the signal. Try switching to a different Channel (all machines in network must switch in order to keep communicating).
	Obstruction in path between machines	The MCR is a line-of-sight system. Any obstructions (trees, hills, parts of the machine, etc) obstructing the antennas from having a direct line-of-sight will decrease the range of the system.
Signal Strength shows zero bars	Indirect machines	The MCR is a line-of-sight system. The MCR also utilizes advanced networking features to communicate with machines that it cannot directly see, but can see by using other radios as repeaters in the network. In this case Zero Bars of Signal does not mean there is a problem.
	Faulty antenna path	Check antenna to ensure a solid connection.
User cannot disassociate from a network	Loss of communication with display	Check Ethernet cable to ensure solid connections.
MCR LED is blinking	Radio is not connected to a network.	Led will blink until the radio is connected to a network. If the radio loses connection to a network, the LED will stay solid until power is cycled on the radio.

Symptom	Problem	Solution
Decreased or no wireless connection	Interference caused by other wireless devices	Wireless devices such as business band radios, wireless cameras, and mobile hot spots may interfere with the wireless network created by the MCR, causing decreased network strength or lost connection. Try switching to a different channel (all machines in network must switch in order to keep communicating).

RW00482,0000156-19-19APR13

Cap Antenna Connections

Contamination in antenna connections can contribute to poor radio performance. Ensure antenna connectors on radio and on roof are covered when antenna is not connected. If you anticipate having to remove the antenna for transport or storage, John Deere recommends using the cap which came on the radio antenna connector to keep this in good working order.

CZ76372,00003AD-19-12DEC11

Radio Specifications

NOTE: To achieve range of operation, use of provided antenna is required. Without antenna, radio connection range is 0.9 m (3 ft.).

High power radio range of operation: 4.8 km (3 mi) line-of-sight.

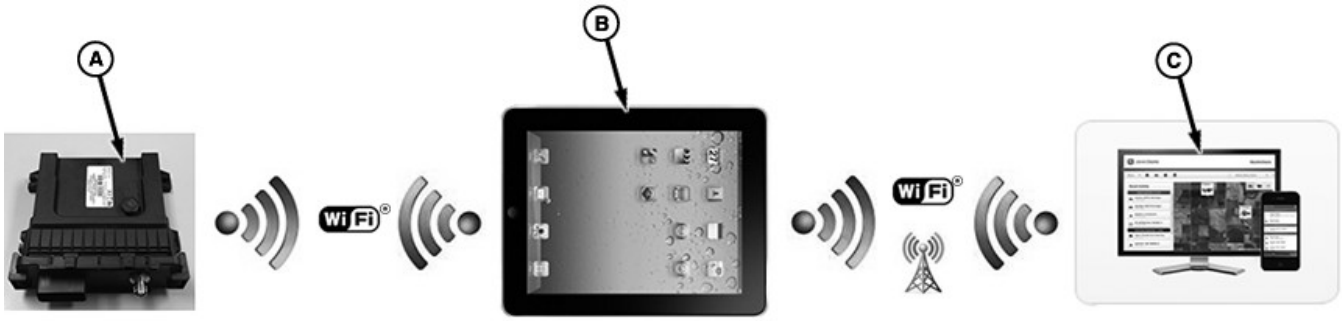
Low power radio range of operation: 2.4 km (1.5 mi) line-of-sight.

Channel Identification (ID)	A	B	C
Channel Number	1	5	9
Center Frequencies (MHz)	2412	2432	2452

JS56696,0000C39-19-13NOV14

John Deere Harvest Mobile (If Equipped)

Theory of Operation



PC20586—UN—10JUL15

Theory of Operation

A—WDS
B—Tablet
C—John Deere Operations Center

John Deere Harvest Mobile is a mobile application that is utilized during harvest to monitor and collect agronomic information and optimize machine settings. The combine sends data over CAN bus to wireless data server (WDS) (A). The WDS transfers harvest data to Harvest Mobile application on a tablet (B) through a Wi-Fi® connection. The tablet sends this data to John Deere Operations Center (C) through a cellular or Wi-Fi® connection.

A WDS antenna is required to send and receive Wi-Fi® signals with tablet. A valid John Deere Operations Center account is required to provide the interface between Harvest Mobile and John Deere Operations Center.

HC94949,00009CA-19-28APR16

Requirements

Hardware:

NOTE: Contact your John Deere dealer for a complete list of compatible tablets and operating systems.

- Wi-Fi® enabled tablet
- Wireless data server (WDS)
- WDS antenna
- Coaxial cable
- WDS harness

Display:

- GreenStar™ 3 2630 Display

Receiver:

- StarFire™ 3000 Receiver
- StarFire™ 6000 Receiver

Software:

- John Deere Operations Center account
- John Deere Harvest Mobile application
- Wireless data server subscription

HC94949,00009CB-19-29APR16

Machine Compatibility

John Deere Harvest Mobile requires a compatible combine to operate. Some Harvest Mobile features may be limited based on the features of the combine. Contact your John Deere dealer for a complete list of compatible combines.

AE77568,00000E3-19-10JUL15

John Deere Operations Center

Wi-Fi is a trademark of Wi-Fi Alliance.
GreenStar is a trademark of Deere & Company
StarFire is a trademark of Deere & Company



PC20552—UN—15DEC14

John Deere Harvest Mobile requires a valid John Deere Operations Center account and organization to activate wireless data server (WDS) and authenticate tablet.

John Deere Operations Center also stores WDS software, and facilitates software reprogramming when needed.

(Reference Updating Software for more information.)

HC94949,00009CC-19-28APR16

Wireless Data Server Subscription

A valid subscription is required to activate wireless data server (WDS) to enable data recording. Subscription must be associated to appropriate John Deere Operations Center account to activate WDS upon logging into mobile application. For more information, contact your John Deere dealer.

HC94949,00009CD-19-28APR16

Wireless Data Server—Main Softkey



PC19702—UN—05JUN14

Main Softkey

Select Main softkey to view recording status, wireless connection, data management, current field name, operation, and storage capacity.

AE77568,0000104-19-13AUG15

Wireless Data Server—Setup Softkey



PC18513—UN—26FEB14

Setup Softkey

Select Setup softkey to view wireless network name, set and manage wireless network password, change wireless channel, view storage capacity, delete data from wireless data server (WDS), and update WDS software.

AE77568,0000105-19-13AUG15

Wireless Data Server—Diagnostics Softkey



PC18512—UN—26FEB14

Diagnostics Softkey

Select Diagnostics softkey to view part number, serial number, software version, subscription status, CAN counters, and perform factory reset.

AE77568,0000106-19-13AUG15

Tablet



PC21338—UN—08JUL15

A Wi-Fi® enabled tablet gives the user an interface for communication between machine and other resources. Use tablet to download required applications. A cellular connection is not required, but is recommended.

Contact your John Deere dealer for list of compatible tablets and operating systems required for different

Wi-Fi is a trademark of Wi-Fi Alliance.

applications. Language settings of tablet determine language used in mobile applications.

(Refer to tablet Operator's Manual to configure language setting.)

NOTE: Keep tablet at least 0.6 m (2 ft.) away from other communication devices. For example, two-way radios or wireless cameras.

AE77568,00000E6-19-12AUG15

StarFire™ Receiver



PC20203—UN—06NOV14

Receiver uses navigation satellites with StarFire™ correction satellites to determine machine location and direction of travel. An integrated terrain compensation module (TCM) adjusts machine position to compensate for uneven terrain. A receiver activation is required for SF2 or real time kinematics (RTK).

HC94949,000061E-19-10AUG15

GreenStar™ Display



PC13407—UN—20APR11

GreenStar

GreenStar™ Display is a user interface used by the operator to:

- Configure and calibrate system components.
- Monitor system performance.
- Make system adjustments.
- Program software.
- View diagnostic tests.

HC94949,00006C8-19-01OCT15

Wireless Data Server



PC19880—UN—06AUG14

NOTE: To prevent loss of data, ensure data on wireless data server (WDS) is synchronized to tablet before deleting data or replacing WDS.

WDS supports data storage and data transfer between devices with CAN, Wi-Fi® , and Ethernet interfaces.

WDS collects and packages data from CAN bus and sends it wirelessly to tablet. If not connected to a device or tablet, WDS continues to collect and store data until a connection is made.

AE77568,0000108-19-09OCT15

Wireless Data Server Coaxial Cable and Antenna

StarFire is a trademark of Deere & Company

Wi-Fi is a trademark of Wi-Fi Alliance.



PC19883—UN—06AUG14

Wireless data server (WDS) antenna enables Wi-Fi® connection to tablet. WDS antenna and coaxial cable are required to create unobstructed Wi-Fi® connection between WDS and tablet. Maximum wireless distance between antenna and tablet is 15.2 m (50 ft).

AE77568,0000109-19-17FEB16

John Deere Harvest Mobile Setup

1. Download John Deere Harvest Mobile application.
2. Configure wireless data server in GreenStar™ 3 2630 Display.
3. Connect tablet to wireless data server.
4. Verify subscription of wireless data server.
5. Set up GreenStar™ 3 2630 Display.

AE77568,000010A-19-08JUL15

Download John Deere Harvest Mobile Application

1. Open tablet's application store and search for: John Deere Harvest Mobile.
2. Select John Deere Harvest Mobile.
3. Select install (download) to install the application.

AE77568,000010B-19-17JUL15

Configure Wireless Data Server in GreenStar™ 3 2630 Display



PC8663—UN—29APR15

Menu Button



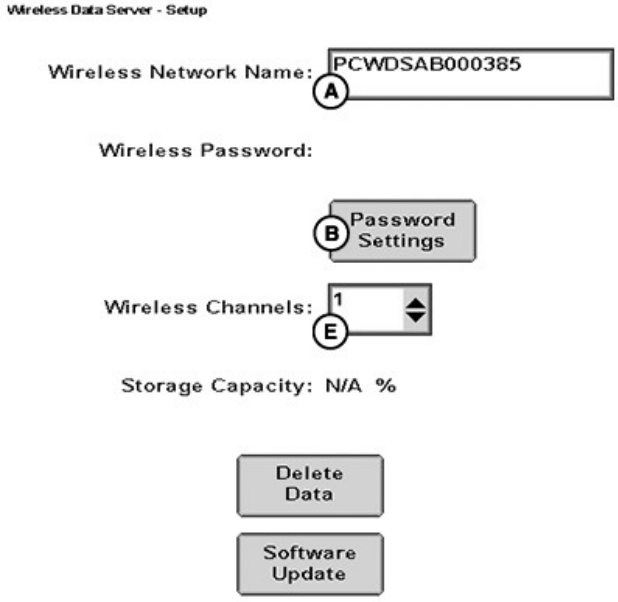
PC20562—UN—16DEC14

Wireless Data Server Button



PC18513—UN—26FEB14

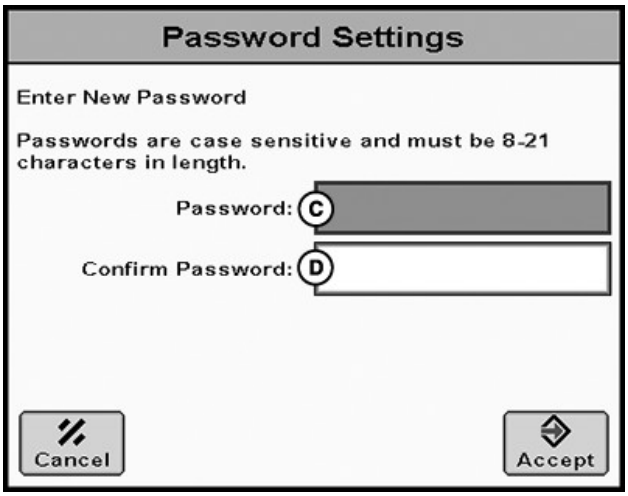
Setup Softkey



PC21325—UN—29JUL15

Wireless Data Server Setup

Wi-Fi is a trademark of Wi-Fi Alliance.
GreenStar is a trademark of Deere & Company



PC21368—UN—16JUL15

Create Password

A—Wireless Network Name Entry Box
B—Password Settings Button
C—Password Entry Box
D—Confirm Password Entry Box
E—Wireless Channels Drop-down Menu

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Setup softkey.
4. Enter a Wireless Network Name (A). To differentiate between combines, use combine model or identifier (for example, John's Combine).

NOTE: Password is required to connect tablet to wireless data server (WDS). Ensure password can be easily remembered or record password and store for future reference.

Password criteria:

- *8—21 characters in length*
- *No spaces*
- *Only use characters available on GreenStar™ 3 2630 Display*

5. Select Password Settings button (B). Enter password in Password entry box (C) and enter same password in Confirm Password entry box (D).
6. Factory default Wireless Channel (E) is 6. If using other wireless communication devices (for example, Machine Communication Radio) within 4.8 km (3 mi.) of wireless data server, select channel furthest away from other device's channel.

AE77568,000010C-19-12AUG15

Connect Tablet to Wireless Data Server

On tablet, connect to Wireless Network Name that was set up on display.

1. Select wireless network name.
2. Enter wireless password.

RW00482,00005A6-19-17FEB16

Verify Subscription of Wireless Data Server



PC8663—UN—29APR15

Menu Button



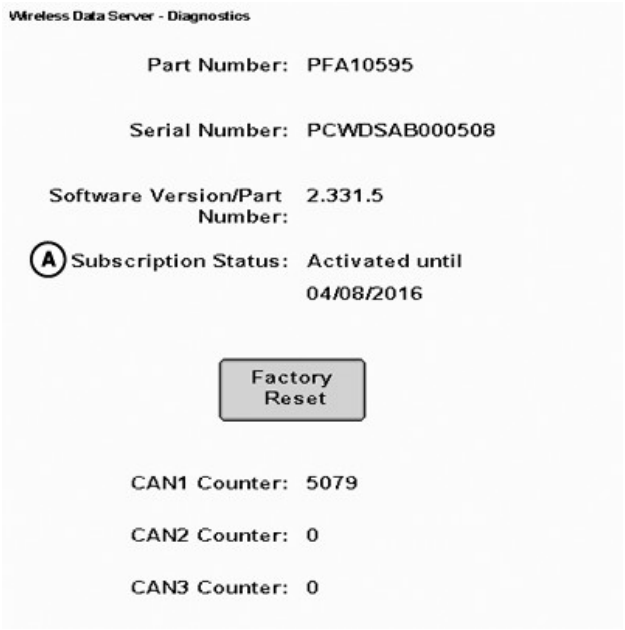
PC20562—UN—16DEC14

Wireless Data Server Button



PC18512—UN—26FEB14

Diagnostic Softkey



PC22150—UN—17FEB16

Wireless Data Server Diagnostics

A—Subscription Status

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NOTE: Global positioning system (GPS) signal is required to show valid subscription status.

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Diagnostics softkey.
4. Verify Subscription Status (A) displays Activated.
5. If wireless data server is not activated, contact your John Deere dealer to activate.

AE77568,0000100-19-17FEB16

Set Up GreenStar™ 3 2630 Display



PC8663—UN—29APR15

Menu Button



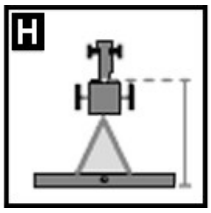
PC17340—UN—24OCT13

GreenStar™ Button



PC8676—UN—05AUG05

Resources Softkey



PC8677—UN—05AUG05

Equipment Softkey



PC8678—UN—05AUG05

Documentation Softkey

1. Select Menu button.
2. Select GreenStar™ button.
3. Select Resources softkey.
4. Enter Client, Farm, Field, Task, and Crop Season.
5. Select Equipment softkey.
6. Enter Machine and Header settings.
7. Select Documentation softkey.
8. Create a Harvest Documentation tab if not already present and enter crop type and variety being harvested.

(For more information on GreenStar™ 3 2630 Display setup, reference GS3 2630 Display Operator's Manual.)

AE77568,000010E-19-16JUL15

Operating John Deere Harvest Mobile

CAUTION: Avoid serious injury. Do not start Harvest Mobile application while performing maintenance on combine.

1. Harvest Mobile Operation
2. Interactive Combine Adjustment (ICA)
3. View Wireless Data Server Main Page

AE77568,0000107-19-13JUL15

John Deere Harvest Mobile Operation

1. Verify GreenStar™ 3 2630 Display is set up correctly.

   (Reference System Setup for more information.)
2. Start Harvest Mobile application on tablet.
3. Verify tablet is connected to wireless data server (WDS).

   (Reference System Setup for more information.)
4. Harvest Mobile displays current global positioning system (GPS) location when connected to WDS. Enter field, engage separator, engage header, lower header, and start harvesting.

NOTE: Map plotting within Harvest Mobile responds to header position. Harvest Mobile plots map when combine header is lowered and stops plotting when header is raised.

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(Reference Troubleshooting for more information.)

AE77568,000010F-19-13JUL15

Interactive Combine Adjustment

NOTE: Interactive combine adjustment (ICA) is only available on compatible combines. Contact your John Deere dealer for a complete list of compatible combines.

ICA is a feature within John Deere Harvest Mobile which allows user to report issues. Harvest Mobile receives recommendations from ICA and shows them to the user. Through Harvest Mobile, user can make machine adjustments.

AE77568,00000E2-19-13JUL15

View Wireless Data Server Main Page



PC8663—UN—29APR15

Menu Button



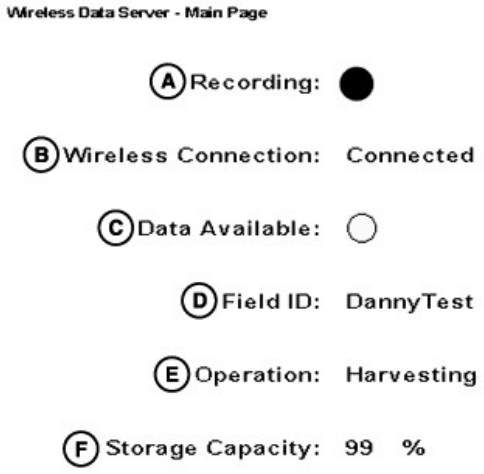
PC20562—UN—16DEC14

Wireless Data Server Button



PC19702—UN—05JUN14

Main Softkey



PC21328—UN—16JUL15

Wireless Data Server Main Page

A—Recording
B—Wireless Connection
C—Data Available
D—Field ID
E—Operation
F—Storage Capacity

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Main softkey.

Recording (A)—Flashes black when wireless data server (WDS) is collecting data.

Wireless Connection (B)—Displays when tablet connects to WDS. Status changes to Connected.

Data Available (C)—Solid green indicates data on WDS has not been sent to tablet.

Field ID (D)—Field name used in GreenStar™ 3 2630 Display.

Operation (E)—Type of software installed on WDS.

Storage Capacity (F)—Amount of space available to store recorded data.

AE77568,0000110-19-13JUL15

Delete Data From Wireless Data Server



PC8663—UN—29APR15

Menu Button

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PC20562—UN—16DEC14

Wireless Data Server Button



PC18513—UN—26FEB14

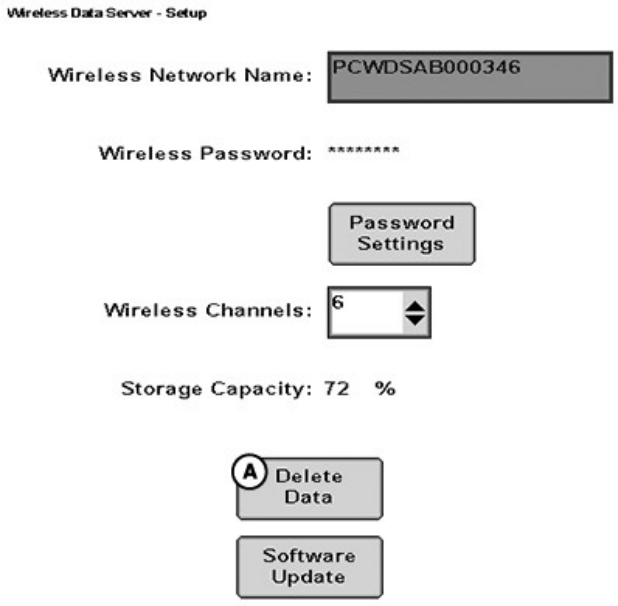
Setup Softkey

It is recommended to delete data before the start of each season. Only data synchronized to John Deere Operations Center is deleted.

To remove all data, including wireless network name and wireless password information, perform a factory reset.

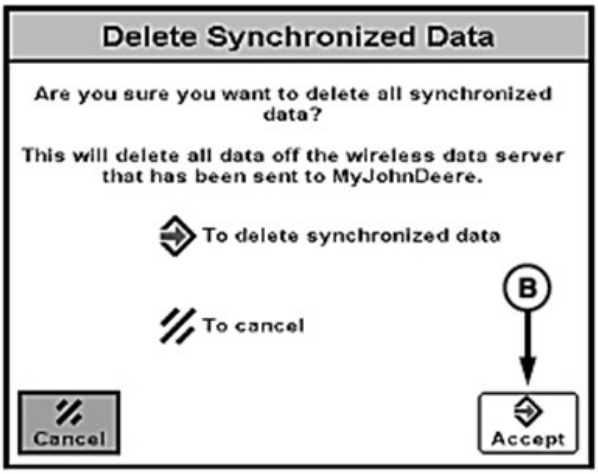
(For more information, reference Wireless Data Server Diagnostics in Troubleshooting.)

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Setup softkey.



PC21329—UN—16JUL15

Wireless Data Server Setup



PC20565—UN—08JUL15

Delete Synchronized Data

A—Delete Data Button
B—Accept Button

4. Select Delete Data button (A).
5. Select Accept button (B).

HC94949,00009CE-19-28APR16

Update Software

1. Reprogram wireless data server.
2. Update John Deere Harvest Mobile.

AE77568,0000112-19-06JUL15

Reprogram Wireless Data Server

IMPORTANT: Ensure that machine is parked before reprogramming.



PC21333—UN—08JUL15

Software Update

A—Accept Button

Automatically Reprogram WDS

John Deere Harvest Mobile verifies software versions on wireless data server (WDS) and payload stored in John Deere Operations Center. If a newer software version is available, Harvest Mobile downloads software from John Deere Operations Center and sends it to WDS.

1. Connect tablet to WDS.

   (Reference Connect Tablet to Wireless Data Server for more information.)

2. Open Harvest Mobile application and log in to John Deere Operations Center.
3. If newer software is available, operator receives a prompt on GreenStar™ 3 2630 Display. Select Accept button (A) and follow display prompts to reprogram WDS.



PC8663—UN—29APR15

Menu Button



PC20562—UN—16DEC14

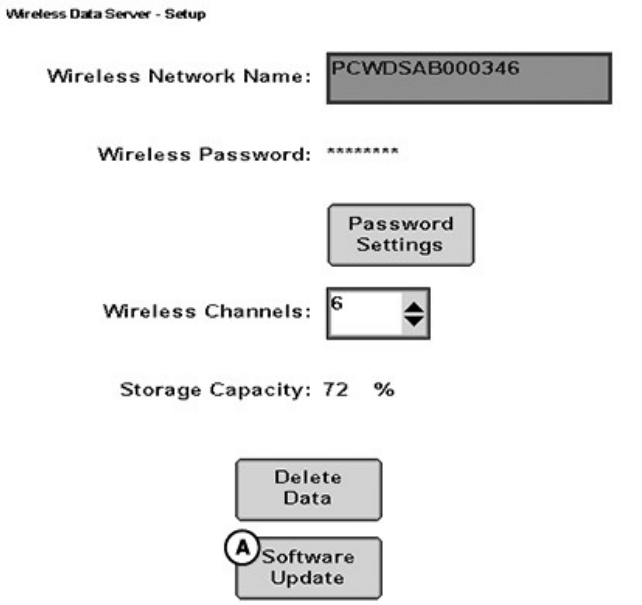
Wireless Data Server Button

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PC18513—UN—26FEB14

Setup Softkey



PC21330—UN—16JUL15

Wireless Data Server Setup

A—Software Update Button

Manually Reprogram WDS

If software update prompt is rejected or canceled, operator can reprogram WDS from WDS Setup page.

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Setup softkey.
4. Select Software Update button (A) to check if software is available.

NOTE: Software update prompt does not display while harvesting. If an update is available, software update prompt displays after cycling power or after selecting a new client, farm, or field.

5. Follow display prompts to reprogram WDS.

HC94949,00009CF-19-28APR16

Update John Deere Harvest Mobile

Use tablet's application store to update Harvest Mobile. Most tablet manufacturers notify user if an update is available for downloaded applications. Contact your

John Deere dealer to verify you have latest application version before using Harvest Mobile.

AE77568,0000113-19-06JUL15

Reset Wireless Password



PC8663—UN—29APR15

Menu Button



PC20562—UN—16DEC14

Wireless Data Server Button

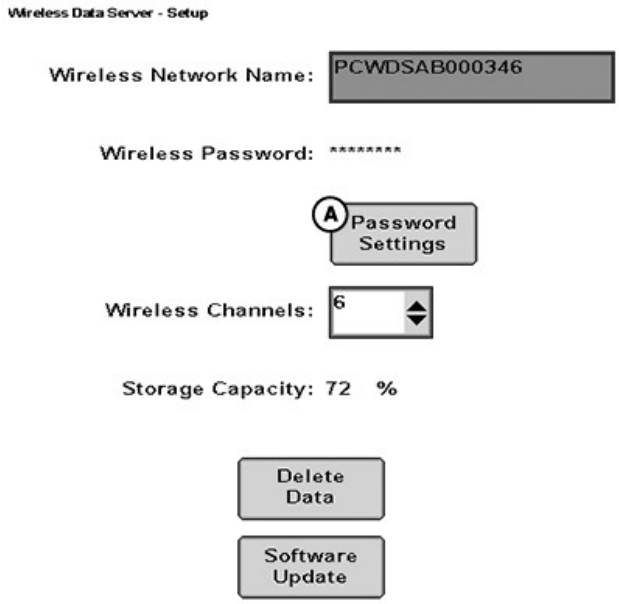


PC18513—UN—26FEB14

Setup Softkey

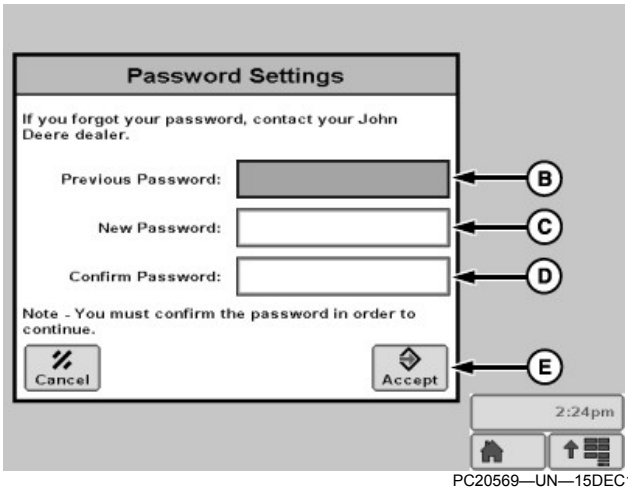
If current password is known:

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Setup softkey.



PC21331—UN—16JUL15

Wireless Data Server Setup

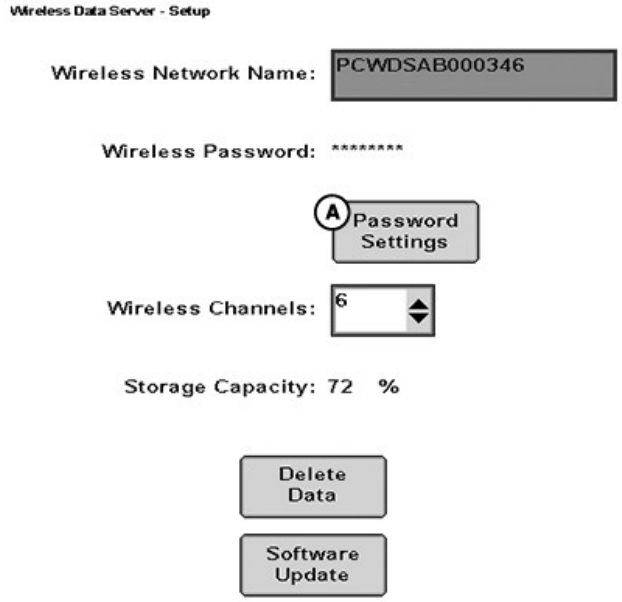


PC20569—UN—15DEC14

Password Settings

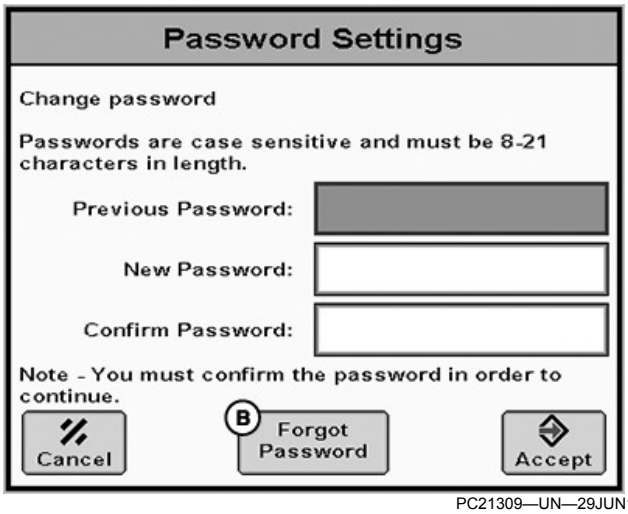
A—Password Settings Button
B—Previous Password Entry Box
C—New Password Entry Box
D—Confirm New Password Entry Box
E—Accept Button

4. Select Password Settings button (A).
5. Enter Previous Password (B).
6. Enter New Password (C) and Confirm New Password (D).
7. Select Accept button (E).



PC21331—UN—16JUL15

Wireless Data Server Setup



PC21309—UN—29JUN15

Wireless Data Server Password Settings



PC21310—UN—29JUN15

Wireless Data Server Forgot Password

A—Password Settings Button
B—Forgot Password Button
C—Wireless Data Server Serial Number
D—Challenge Code

If current password is unknown:

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Setup softkey.
4. Select Password Settings button (A).
5. Select Forgot Password button (B).
6. Contact your John Deere dealer and provide them with the WDS Serial Number (C) and Challenge Code (D).

AE77568,0000101-19-12AUG15

Wireless Data Server Diagnostics



PC8663—UN—29APR15

Menu Button



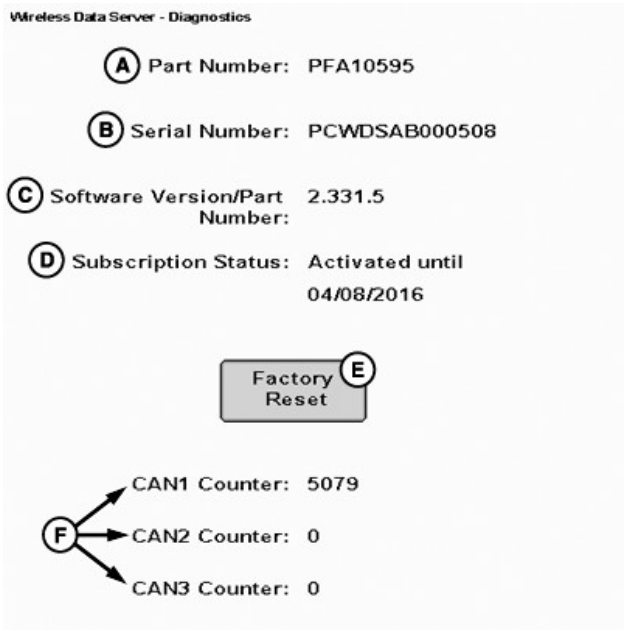
PC20562—UN—16DEC14

Wireless Data Server Button



PC18512—UN—26FEB14

Diagnostic Softkey



PC22151—UN—17FEB16

Wireless Data Server Diagnostics

A—Part Number
B—Serial Number
C—Software Version / Part Number
D—Subscription Status
E—Factory Reset Button
F—Implement CAN Counters

1. Select Menu button.
2. Select Wireless Data Server button.
3. Select Diagnostic softkey.

Part Number (A) and **Serial Number** (B)—Displays wireless data server (WDS) identification information.

Software Version / Part Number (C)—Displays software installed on WDS.

Subscription Status (D)—Displays whether WDS subscription is active or inactive.

NOTE: Data cannot be retrieved after Factory Reset. To prevent data loss, ensure wireless data server (WDS) data is synchronized to tablet before deleting data or replacing WDS.

Factory Reset Button (E)—Deletes all data from WDS, including wireless network name and wireless password information.

Implement CAN Counters (F)—Displays number of CAN messages received on CAN bus. Accumulating numbers or an active status indicates there is communication on the CAN bus.

NOTE: CAN counters can be used for dealer diagnostics.

Combines only have one CAN bus. Only CAN1 counter increases.

RW00482,00005A8-19-17FEB16

Additional Support Material

Additional support material is available through the mobile application to further assist users with utilization and troubleshooting:

- How To Videos
- Observable symptoms and troubleshooting recommendations
- Optimization recommendations

RR94114,0001FE9-19-17DEC14

Troubleshooting—Tablet

Symptom	Problem	Solution
Tablet is unable to download application from application store.	Incompatible tablet hardware or operating system.	Verify compatible tablet hardware and operating system is being used. Refer to Deere.com or your John Deere dealer for compatible version of tablet hardware and operating systems.
	Insufficient tablet memory.	Verify tablet has sufficient memory to download the mobile application. Refer to tablet manufacturer for managing tablet memory.

Symptom	Problem	Solution
	No internet connectivity.	Verify data plan or Wi-Fi® is enabled. Refer to tablet manufacturer support material for diagnosing Internet connectivity issues.
	Insufficient battery level.	Ensure tablet meets manufacturer minimum battery level requirements for downloading applications.
	Application store issues.	Application store may be experiencing issues. Attempt to download application at a later time.

AE77568,0000117-19-12AUG15

Preseason Checklist

- ☐ Update all Harvest Mobile components, including:
  - GreenStar™ 3 2630 Display
  - StarFire™ Receiver
  - Wireless data server (WDS)
  - Combine controllers (contact your John Deere dealer.)
- ☐ Ensure combine is properly set up and calibrated.
- ☐ Update tablet operating system.
- ☐ Update John Deere Harvest Mobile application.
- ☐ Ensure GreenStar™ 3 2630 Display setup is complete.
- ☐ Inspect wiring harness for damage.
- ☐ Ensure Cinch™ connector is connected.
- ☐ Ensure antenna is installed properly and connected .
- ☐ Ensure all connectors are connected, and all pins are properly seated.
- ☐ Ensure all harvesting data is synchronized to desired locations or deleted.

AE77568,0000114-19-14JUL15

Post-season Checklist

- ☐ Ensure all harvesting data is synchronized to desired locations or deleted.
- ☐ Inspect wiring harness for damage.

RR94114,0001FEC-19-17DEC14

Daily Checklist

- ☐ Ensure combine is set up and calibrated properly.
- ☐ Ensure all harvesting data is synchronized to desired locations or deleted.
- ☐ Ensure tablet is fully charged before utilizing Harvest Mobile application. Connect to 12 V DC outlet in combine cab to charge tablet.

AE77568,0000120-19-29JUL15

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GreenStar is a trademark of Deere & Company
StarFire is a trademark of Deere & Company
Cinch is a trademark of Cinch Inc.

AutoTrac™ RowSense™ (If Equipped)

AutoTrac™ Guidance



PC16676—UN—18MAR13

AutoTrac™ Guidance

AutoTrac™ is an assisted steering system that allows operators to take their hands off the steering wheel as the machine travels down the created guidance line in the field. Operators still have to turn the machine around on the end rows. By pressing the resume button, AutoTrac™ regains control and steers machine down the adjacent pass.

AL70325,0000435-19-13APR17

Manual Guidance

Information about guidance tracks and operating in each Tracking Mode is given later in SET GUIDANCE TRACK and in tracking mode sections.

After creating a guidance track, drive machine onto track. The closest track is highlighted with a thicker white line. Off Track error distance is shown in the path accuracy indicator. This number shows the distance from machine to closest track. Error number will count up until machine reaches point halfway between two tracks. After reaching midpoint, error number will count down as machine approaches next track.

Track number is displayed below the path accuracy indicator and is automatically updated by the system as a new track is approached. Track number changes when machine is half way between two tracks. Tracking Tones alert the operator when machine is close to a track. Adaptive Curves does not display track numbers.

HC94949,00003A0-19-25SEP13

Operate Guidance Systems Safely

Do not use guidance systems on roadways. Always turn off (disable) guidance systems before entering a roadway. Do not attempt to turn on (activate) a guidance system while transporting on a roadway.

Guidance systems are intended to aid the operator in performing field operations more efficiently. The operator is always responsible for the machine path. Guidance systems do not automatically detect or prevent collisions with obstacles or other machines.

Guidance Systems include any application that automates machine steering. This includes, but may not be limited to, AutoTrac™, iGuide™, iTEC™ Pro, AutoTrac™ Turn Automation, AutoTrac™ Universal (ATU), RowSense™, and Machine Sync.

To prevent injury to the operator and bystanders:

- Never get on or off a moving machine.
- Verify the machine, implement, and guidance system are set up correctly.
  - If using iTEC™ Pro or AutoTrac™ Turn Automation, verify accurate boundaries have been defined.
  - If using Machine Sync, verify the follower's home point is calibrated with sufficient space between the machines.
- Remain alert and pay attention to the surrounding environment.
- Take control of the steering wheel, when necessary, to avoid field hazards, bystanders, equipment, or other obstacles.
- Stop operation if poor visibility conditions impair your ability to operate the machine or identify people or obstacles in the machine path.
- Consider field conditions, visibility, and machine configuration when selecting machine speed.

JS56696,0000ABC-19-20DEC17

General Information

IMPORTANT: AutoTrac system relies on global positioning system (GPS) operated by the United States government, which is solely responsible for its accuracy and maintenance. System is subject to changes that could affect accuracy and performance of all GPS equipment.

Operator must maintain responsibility for machine and must turn at end of each track. This system will not turn at end of a track.

AutoTrac basic system is intended to be used as an assistance tool to mechanical markers. Operator must evaluate overall system accuracy to determine specific field operations where assisted steering may be used. This evaluation is necessary because accuracy required for various field operations may differ depending on farming operation. AutoTrac uses StarFire differential correction network along with GPS. Slight shifts in position may occur over time.

HC94949,000039F-19-23SEP13

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AutoTrac is a trademark of Deere & Company
iGuide is a trademark of Deere & Company

iTEC is a trademark of Deere & Company
AutoTrac is a trademark of Deere & Company
RowSense is a trademark of Deere & Company

Guidance Settings



PC15305—UN—19MAR13

Settings Icon

Select SETTINGS icon at the top of the guidance application to configure guidance settings.

Guidance Master

Guidance Master toggle turns Guidance application ON or OFF.

HC94949,00003AD-19-02OCT13

Turn Predictor



PC17238—UN—11JUL13

Turn Predictor alerts operator by predicting the end of pass and displays the distance to the end of pass in the map view.

NOTE: Turn Predictor defaults to ON

Turn predictor is intended to predict only the turn point of a machine using Parallel Tracking or AutoTrac while in Straight Track mode. It is NOT a headland alert. Turn predictions are based solely on previous turn behavior of machine. Turn points are also defined when AutoTrac is deactivated and heading error exceeds 45 degrees. Turn predictions will not coincide with field boundary if field boundary is not linear and continuous, or if operator makes turns before or after field boundary.

Distance will count down to predicted turn, and tones will sound when machine is 10 seconds from intersecting turn point. This happens again when predicted turn point has been reached.

Visual indicator will change to yellow within 10 seconds of predicted turn, and then red after passing the predicted turn location. A white intersection line marks turning location.

AutoTrac

Turn Predictor will default to ON after every power cycle or after every seat switch time-out. Turn Predictor cannot be turned off on machine without an operator presence switch tied to CANBUS. Once turned OFF, it will remain off only until next power cycle, seat switch time-out, or if manually turned back on by operator.

Whenever Turn Predictor resets back to ON after a seat switch time-out (operator out of seat for 7 seconds on tractors), it will display an alert indicating Turn Predictor has been reset to ON due to operator leaving seat. An option will be available to turn it OFF again from the turn predictor symbol on the map.

HC94949,000038B-19-23SEP13

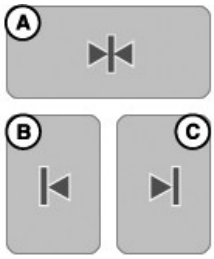
Tracking Tones

Tracking tones can be used as an audible indication of steering direction. If the track is right of machine, two low beeps sound. If left of machine, a single high beep sounds. The alarm repeats while off-track error between machine and guidance track is 10—40 cm (4—16 in.).

NOTE: Tracking Tones default to ON.

HC94949,00003AE-19-23SEP13

Shift Track



PC16665—UN—18MAR13

A—Shift Track Center
B—Shift Track Left
C—Shift Track Right

Shift Track adjusts position of machine left, center, or right of set track. Use Shift Track to compensate for global positioning system (GPS) drift.

Shift Track adjusts track 0 and all guidance lines associated with the track. Guidance lines are shifted right or left to the pre-specified distance. An operator can also center a guidance line on machine.

To center line on current machine location, select Shift Track Center (A). To move line to left, select Shift Track Left (B). To move line to right, select Shift Track Right (C).

NOTE: Shift track master defaults to ON.

Shift Track is disabled while adaptive curves recording is active.

The maximum shift increment value allowed with AutoTrac™ active is 30 cm (12 in). With AutoTrac™ inactive, operator is allowed to shift up to 914 cm (360 in).

NOTE: Drift is inherent to any satellite-based, differentially corrected GPS system.

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When using SF1, SF2, or SF3 differential correction (or when using RTK Quick Survey Mode), the track may drift over time or at power cycles. Shift Track can be used to compensate for GPS drift.

Shift Track is not recommended with Adaptive Curves. Shift is based on the current heading on the track, not the geometry of the entire track. Shift Track can cause some portions of the track to shift closer or further away from the desired shift. Shift Track does not compensate for inherent GPS drift when using Adaptive Curves.

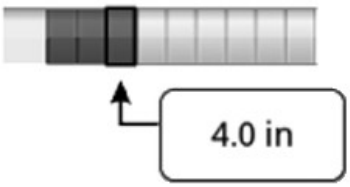
The Shift Track Center button is disabled with AB Curves. Use left and right shift buttons to move and regenerate the AB Curve tracks.

Total shifts are visible when editing a straight track or circle track guidance line only. Clear shifts are eligible for all tracks.

CZ76372,000077D-19-21NOV16

Lightbar Settings

NOTE: Lightbar is also referred to as Path Accuracy Indicator.



PC15309—UN—04APR13

Lightbar Step Size

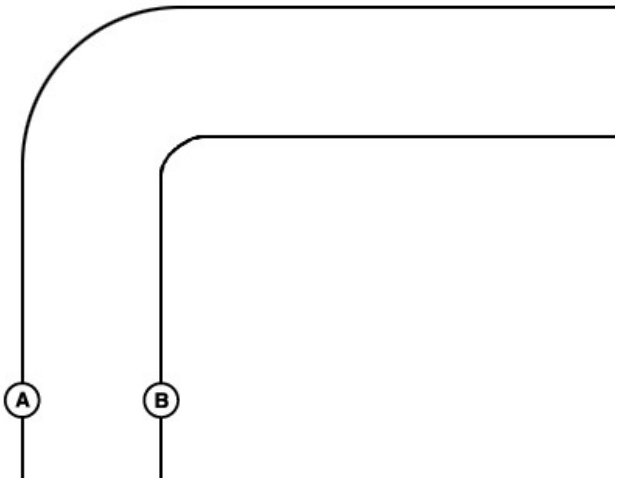
Step Size — Used to set the value of off-track distance each box on the lightbar represents.

Steer Towards Direction — When this option is selected, lights illuminated to the left on the lightbar mean the machine must be steered to the left to align with the guidance track.

Off Track Direction — When this option is selected, lights illuminated to the left on the lightbar mean the machine must be steered to the right to align with the guidance track.

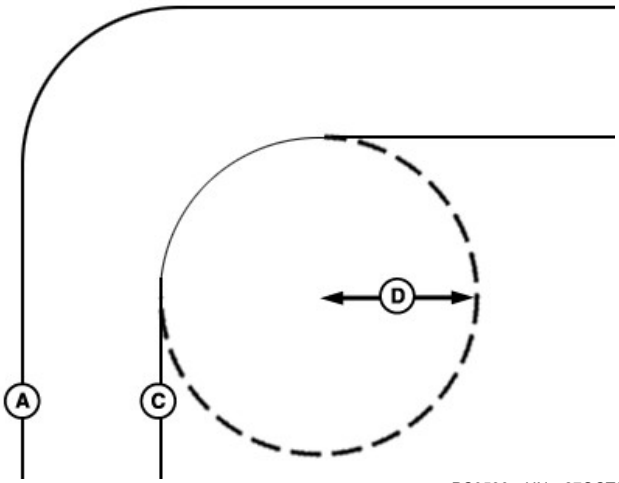
HC94949,000038F-19-23SEP13

Curve Track Settings



PC9529—UN—27OCT06

Smoothing Tight Turns OFF



PC9530—UN—27OCT06

Smoothing Tight Turns ON

A—Previous Pass
B—Next Pass—Smoothing Tight Turns Off
C—Next Pass—Smoothing Tight Turns On
D—In-Ground Turn Radius

Smooth Tight Turns — When enabled, system automatically smooths a propagated path that is too tight.

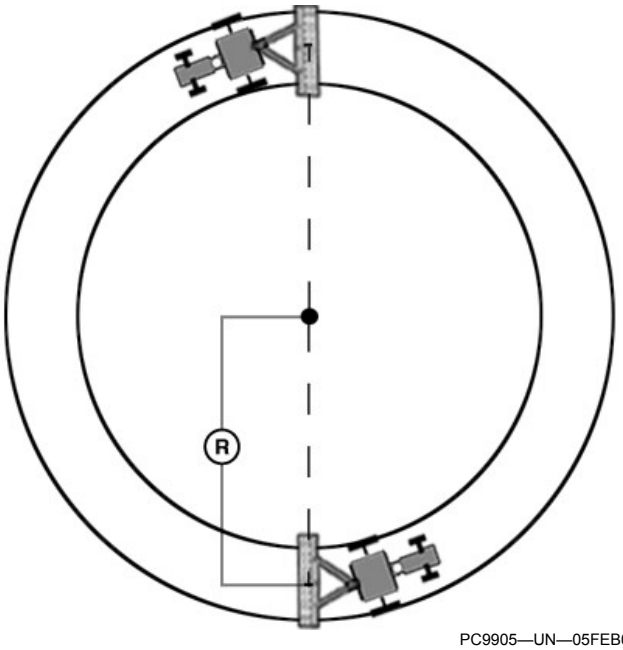
Curve Recording Trigger — Adaptive Curve Track recording may be triggered manually or based on AutoTrac™ . Manual setting only records when record button is pressed. AutoTrac™ setting records when AutoTrac™ is activated on a projected line, and then stops recording when AutoTrac™ is deactivated. If AutoTrac™ setting is selected, the record button can still be used.

AB Curve Recorded Extensions — Straight line extensions can be added to the beginning and end of AB

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curve paths. Extensions are generated for 90 m (300 ft.). Turning setting ON does not add extensions to previously recorded AB curves.

NOTE: Extensions may need to be turned off to prevent lines from crossing each other. If lines cross, the remaining curves may fail to generate.



PC9905—UN—05FEB07

Radius

R—Implement Turn Radius

Implement In-Ground Turn Radius — The smallest turn radius the implement can turn while in the ground.

HC94949,0000390-19-23NOV15

Circle Track Settings



PC20395—UN—08DEC14

Distance to Center Point

Distance to Center of Pivot — Distance from center of circle to current location. The distance only shows to 1609 m (5280 ft.). Turn on to show button on guidance map.

CZ76372,0000739-19-08DEC14

Track Spacing

Track Spacing is used in the Guidance application to determine how far each pass is from the last pass. Track Spacing is similar to Working Width, but Track Spacing is only used for guidance and the two values are independent of each other.

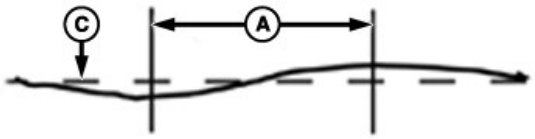
To maintain row width between passes, set Track Spacing the same as Working Width. To ensure some overlap for tillage or spraying, or to account for some GPS drift, make the Track Spacing less than the Working Width.

HC94949,0000265-19-23NOV15

Steering Sensitivity

Steering sensitivity adjusts aggressiveness of AutoTrac steering system. A high steering sensitivity setting is more aggressive. This setting allows system to handle tough manual steering conditions, such as integral implements with a heavy draft load. A low steering sensitivity setting is less aggressive, and allows system to handle lighter draft loads and higher speeds.

Enter a number from 50 through 200. Default value is 70. Value may change based on steering controller



PC17128—UN—18JUN13



PC17129—UN—18JUN13

A—10 Second Interval
B—1 Second Interval
C—Track Error Pattern

- Too Low: If steering sensitivity is too low, a slow wandering track error pattern can be observed on display. This track error pattern (C) takes approximately 10 seconds (A) to go from side to side. If excessive track error is occurring, increase steering sensitivity by small increments until desired accuracy is achieved.
- Too High: Setting steering sensitivity to highest level will not result in maximum tracking accuracy. If steering sensitivity is too high, excessive front wheel motion will be observed which reduces accuracy and causes unnecessary front axle component wear. At extreme high levels, machine motion will become large enough to cause steering sensitivity to be momentarily changed to default level. Wheel motion to watch for when determining if aggressiveness is too high occurs at an interval of approximately 1

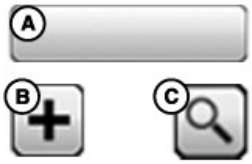
second (B) from side to side. If excessive wheel motion is observed, lower steering sensitivity by small increments until desired performance is achieved.

NOTE: It is normal to see a momentary track error when encountering a large rut, furrow, or implement load change. Proper steering sensitivity adjustment will help minimize track error.

Use Help Center onscreen help for more information about steering sensitivity.

HC94949,0000377-19-26SEP13

Set Guidance Track



PC17427—UN—17JUL13

A—SET TRACK Button
B—Add Guidance Track
C—Filter/Sort Guidance Tracks

1. Select SET TRACK on the main guidance page.
2. On the Guidance Track List, either select an existing guidance line, or create a guidance line.

Use Help Center onscreen help for information about creating different guidance tracks.

HC94949,00003B0-19-23SEP13

Straight Track



PC16661—UN—06MAR13

Straight Track

Straight Track mode assists operator in driving straight parallel paths by using display and audible tones to alert operator when machine is off track.

Straight Track allows the operator to create an initial straight track for the field using a variety of Track 0 options. Once the Track 0 (reference path) has been defined, all passes for the field are generated. Each pass is identical to the original driven pass to ensure that steering errors are not propagated through the entire field. Generated passes can be used to operate Parallel Tracking or AutoTrac.

The methods of defining Track 0:

- A + B - Define Track 0 by driving it with the vehicle.
- A + Auto B - Define Track 0 by driving it with the vehicle.
- A + Heading - Define Track 0 by driving the vehicle to point A and entering a predefined Heading value.
- Lat/Long - Define Track 0 by entering predefined Latitude and Longitude coordinate values for the A and B points.
- Lat/Long + Heading - Define Track 0 by entering predefined Latitude and Longitude value for the A point and entering a predefined Heading value.
- Machine Access A + B - Define Track 0 by driving it with the vehicle.
- Machine Access A + Heading - Define Track 0 by driving the vehicle to point A and entering a predefined Heading value.
- Machine Access Lat/Long + Heading - Define Track 0 by entering predefined Latitude and Longitude value for the A point and entering a predefined Heading value.

NOTE: Track 0 may be defined during an operation (for example, planting), but some buttons are not available while it is being created.

Use Help Center onscreen help for more information about creating straight tracks.

AL70325,000044F-19-27NOV17

Quick Line



PC17394—UN—16JUN14

Quick Line Softkey

A Quick Line softkey can be added to the shortcut bar using the Layout Manager application.

Select the Quick Line softkey to create a guidance line using Auto B method without setup information. Track is automatically named. Use softkey again to overwrite existing Quick Line. To save Quick Line, open guidance track list, select edit button, and rename track.

CZ76372,000071D-19-15JUL14

Guide on a Straight Track

When operating straight track, it is not necessary to drive tracks in a specific order. The closest track is highlighted with a thicker white line.

Track number is displayed under path accuracy indicator, and automatically updates when new track is approached. Track number indicates number of lines

away, and direction from Track 0. Track direction is shown relative to Track 0 (North, South, East, or West). Track number changes when machine is halfway between two tracks.

Path accuracy indicator shows off-track error distance. Off-track error shows distance from closest track to machine. Error counts up until machine reaches point halfway between two tracks. After reaching mid-point, error counts down as machine approaches next track.

Turn predictor displays distance to end of pass in the top right portion of the guidance view. Distance counts down to predicted turn and tones sound when machine is 10 seconds from intersecting turn point, and again when predicted turn point has been reached.

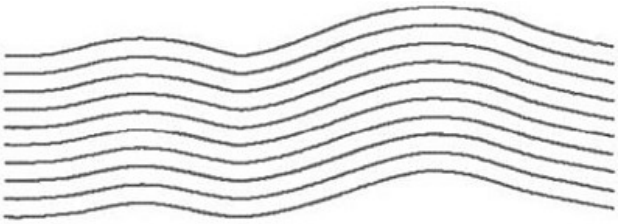
CZ76372,0000737-19-08DEC14

AB Curves



PC16662—UN—06MAR13

AB Curves



PC9028—UN—16APR06

AB Curves allows an operator to drive a curved line in the field with two end points (beginning and end). Passes parallel to track in either direction are generated based on original driven track. Each pass is generated from original driven pass to ensure steering errors are not propagated through entire field.

NOTE: See Curve Track Settings for information about adjusting your system for optimal performance.

The initially recorded AB Curve must be at least 3 m (10 ft) in length to be a valid AB Curve to use for guidance.

Once AB Curve (Track 0) is recorded, ten additional tracks are generated (five passes on both sides of Track 0). When the machine drives past the fifth track from Track 0, ten additional tracks are generated in that direction. The system continues to generate additional passes when the machine drives past the last pass displayed on screen. The machine must be within 400 m (0.25 mi) of the last generated line for the system to continue to generate curve paths. If the machine is at outer limit, it may take several minutes to generate a path that shows up on the screen near the machine.

During this time, "Calculating Curves" displays on the screen.

NOTE: Skip pass is available in AB Curves mode.

Passes are not identical copies of the original pass. Curvature of the pass changes to maintain pass-to-pass error. With each subsequent pass, curvature of the passes get more convex or concave.

NOTE: Sharp Curve and End of Path messages might appear when in AB Curve track mode.

AB Curve paths are generated with a 91 m (300 ft) straight-line extensions attached to the end of the actual recorded paths. In addition to the 91 m (300 ft) automatically added, line extensions will extend before and after the recorded line to line up the machine or continue the path.

When Shift Track is selected, current track is adjusted and five passes on both sides of track are regenerated. AB Curve can be used after initial tracks are generated. Additional tracks are generated while operating. The shift track center button is disabled with AB Curves. Use left and right shift buttons to move and regenerate the AB Curve tracks.

Use Help Center onscreen help for more information about creating AB Curve tracks.

CZ76372,000077E-19-21NOV16

Guide on an AB Curve

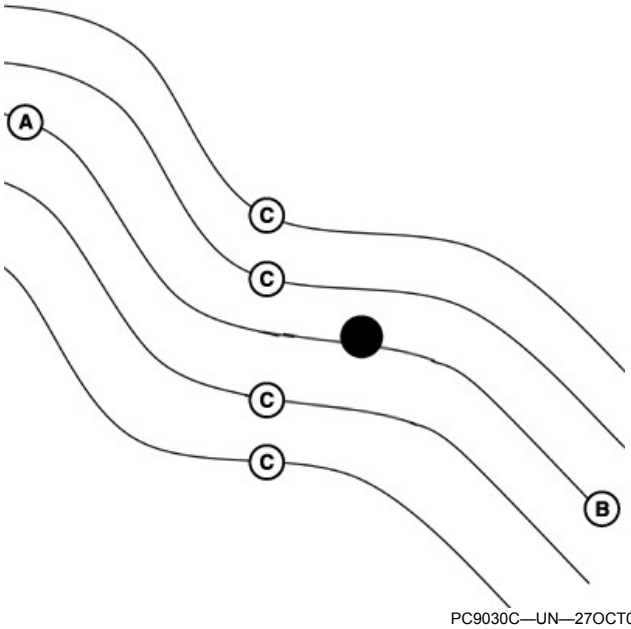
The closest track is highlighted with a thicker white line.

Track number is displayed under path accuracy indicator, and automatically updates when new track is approached. Track number indicates number of lines away, and direction from Track 0. Track direction is shown relative to Track 0 (North, South, East, or West). Track number changes when machine is halfway between two tracks.

Path accuracy indicator shows off-track error distance. Off-track error shows distance from closest track to machine. Error counts up until machine reaches point halfway between two tracks. After reaching mid-point, error counts down as machine approaches next track.

CZ76372,0000736-19-08DEC14

Record a Straight Path or Navigate Around Obstacles



PC9030C—UN—27OCT06

Navigating Around Obstacles



PC15310—UN—09APR13

Curved Line and Straight Line Buttons

A—A Point
B—B Point
C—Paths Generated from Track 0
D—Curved Segment
E—Straight Segment

1. Start AB Curves Recording
2. When you would like to record a straight path, select Straight Segment button.

NOTE: A straight segment will "snap" from when the Straight Segment button is pressed until the Curve Segment button is pressed or Done button is pressed to complete the track.

3. Select the Curved Line button to finish recording the straight line and resume curved path recording.

This procedure can be helpful when there is a long straight section of path or when navigating around obstacles.

Curve and straight segment buttons can be switched as needed while recording.

HC94949,00003C3-19-13SEP13

Adaptive Curves



PC16660—UN—06MAR13

Adaptive Curves

Adaptive Curve track allows operator to record a manually driven curved path. Once the first curved pass has been recorded and machine is turned around, operator can Parallel Track or activate AutoTrac once the propagated path appears.

NOTE: See CURVE TRACK SETTINGS for information about adjusting your system for optimal performance.

The machine will be guided along subsequent passes based on the previous recorded pass. Each pass is generated from the previous pass to ensure steering errors are not propagated through the entire field.

NOTE: A Skip Pass allows operator to drive past or skip over the track next to the current track. Skip Pass is not available in Adaptive Curves' recording session.

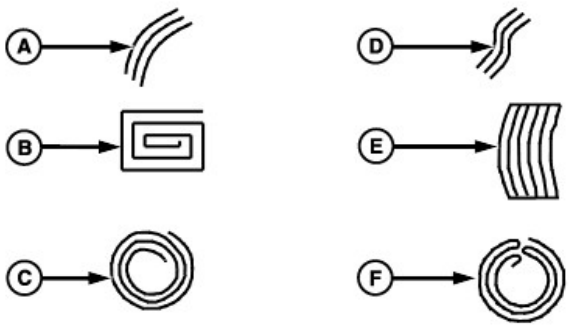
Generated passes are not identical copies of the original pass. The curvature of pass changes maintains pass-to-pass accuracy. With each subsequent pass, curvature of the passes get more convex or concave. When necessary, operator can change curve path anywhere in the field by steering machine off the propagated path.

NOTE: Sharp Curve and End Path messages might appear when in Adaptive Curve track mode.

If not in a curve recording session, line will not project and can only AutoTrac on available lines. When in a recording session, lines will project off of the previous line. This session can be used to record another line manually, or an operator can select AutoTrac in the Curve Recording Triggers and AutoTracking on the projected line.

NOTE: Shift track is not recommended when using Adaptive Curves. When in Adaptive Curve mode, shift track will not compensate for GPS drift.

Use Help Center onscreen help for more information about creating adaptive curve tracks.



PC9032—UN—17APR06

A—Simple Curve
B—Boxed
C—Spiral
D—S-Curve
E—Race Track
F—Circle

Adaptive Curve Track Mode allows an operator to drive and be guided along various field patterns.

- Simple Curve
- S-Curve
- Boxed
- Race Track
- Spiral
- Circle

HC94949,0000394-19-08DEC14

Guide on an Adaptive Curve

IMPORTANT: If repeatability is needed with saved Adaptive Curve Track data, it is required that the initial track data and subsequent trips across the field be created using StarFire RTK accuracy. RTK base station should be operating in Absolute Base mode.

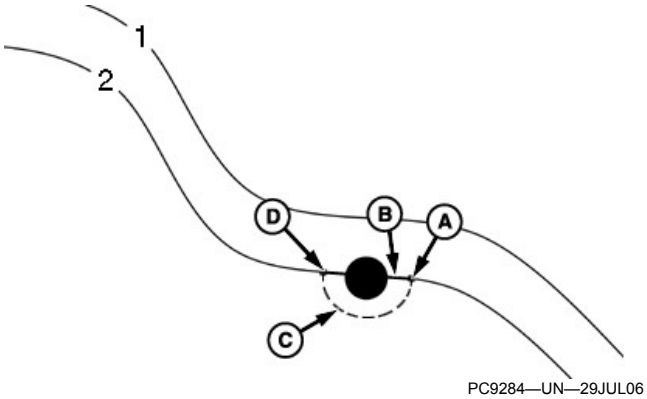
NOTE: Track spacing for Adaptive Curve Track data is constant. If a different implement width is used when returning to the field, new data must be recorded.

The closest track is highlighted with a thicker white line. Path accuracy indicator shows off-track error distance. Off-track error shows distance from closest track to machine. Error counts up until machine reaches point halfway between two tracks. After reaching mid-point, error counts down as machine approaches next track.

If a curve is not being recorded, lines are not projected and operator is only able to AutoTrac™ on available lines. When recording, lines project off of previous line. This session can be used to record another line manually, or an operator can select AutoTrac™ in Curve Recording Triggers and AutoTrac™ on the projected line.

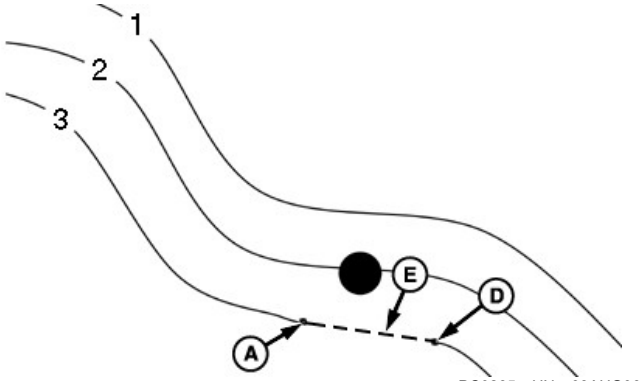
CZ76372,0000735-19-08DEC14

Record a Straight Path Within an Adaptive Curve



PC9284—UN—29JUL06

Around Obstacle



PC9285—UN—08AUG06

Straight Path



PC15311—UN—09APR13

Curved Line and Straight Line Buttons

A—Straight Line selected
B—Straight segment is generated to connect two points
C—Tractor path not recorded
D—Curved Line selected
E—Path recorded as a straight line between points A and D
F—Curved Line Button
G—Straight Line Button

1. Start recording an Adaptive Curve.
2. When you would like to record a straight path, select Straight Line button.

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NOTE: A straight segment will "snap" from when the Straight Segment button is pressed until the Curve Segment button is pressed or Done button is pressed to complete the track.

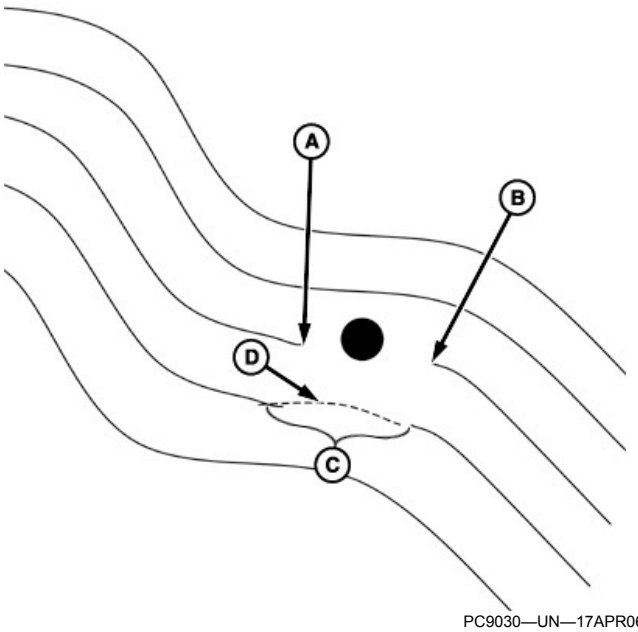
3. Select the Curved Line button to finish recording the straight line and resume curved path recording.

This procedure can be helpful when there is a long straight section of path or when navigating around obstacles.

Curve and straight segment buttons can be switched as needed while recording.

NOTE: The longest straight segment that can be created is a distance of 0.8 km (0.5 mi.) (2,640 ft.). For a greater distance, line segment will not connect resulting in a gap in the path.

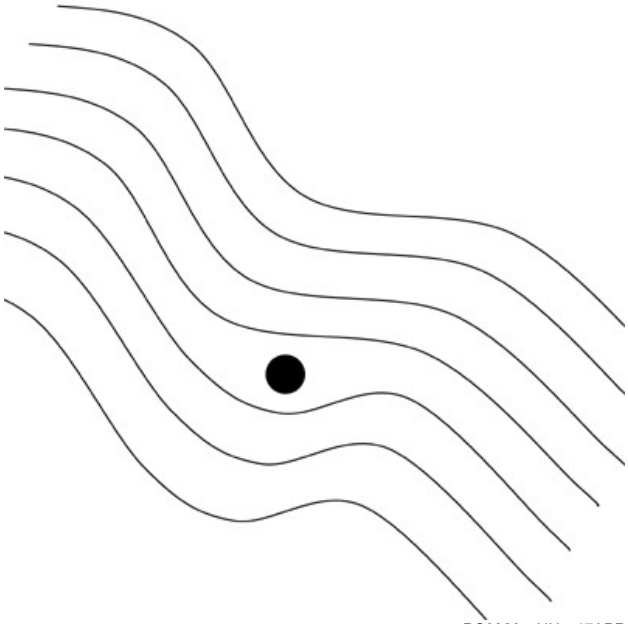
HC94949,0000395-19-13SEP13



PC9030—UN—17APR06

A—Turned Recording Off
B—Turned Recording On
C—Gaps Results in Next Pass
D—Manually Driven to Re-establish Path

Navigate Around Obstacles



PC9029—UN—17APR06

When operating Adaptive Curves in a field and an obstacle is encountered, such as a well head, telephone pole, or power line, the operator must drive around these obstacles.

NOTE: Use the straight button to record a straight line around the obstacle. This button avoids a gap in the path.

Recording ON: If recording is left on while driving around an obstacle that deviation to the propagated path will be recorded and become a part of the path. On the next pass that approaches the area in the field, the propagated path for the pass the machine is on will have incorporated the deviation. The machine will steer along the deviation. To straighten out that deviation, the operator must take over manual steering of the machine and straighten out that deviation. Once the operator has driven past the deviation in the field and reacquired the intended path the resume switch may be activated and AutoTrac will take over machine steering.

Recording OFF: If recording is turned off when the obstacle is approached and steered around and then recording turned back on once the obstacle has been navigated around and AutoTrac activated to finish the pass, there will be a gap in the recorded path where the obstacle is. On the next path when the machine approaches the gap, the operator must take over manual steering of machine and navigate through the gap. Once the gap has been navigated and the propagated path is reacquired, AutoTrac can be activated and the gap will not appear in subsequent

passes as long as recording is turned on for the next pass.

HC94949,0000396-19-13SEP13

Circle Track



PC17400—UN—08DEC14

Circle Track

Circle track allows operator to create concentric circle guidance lines. It is designed to be used in fields with a center pivot.

A circle track is based on latitude and longitude coordinates at center of a pivot. Concentric guidance lines are created based on track spacing out to 1.6 km (1 mi.) from center of pivot.

Circle track is designed for center pivot operation on ground with less than 2% slope. Since circle track creates circle spacing on a level plane, guidance line spacing and center pivot track do not match as tracks get farther away from center pivot in sloped conditions. This spacing is due to difference between distance traveled on a hill and on a level plane. The difference in distance increases as slope increases.

Use shift track to move tracks radially closer or further from center point. Shift track does not move center point. Shift track allows operator to use various implement widths, account for different lengths of center pivot towers, or to account for stretching or shrinking of center pivot irrigation sections. If a circle track edge is added, modified or deleted, existing shifts for that track are deleted. Using shift track with an edge causes the implement not to align with the edge.



PC20395—UN—08DEC14

Distance to Center Point

Distance to Center Point displays distance from center of circle to current location. The distance only shows to 1609 m (5280 ft.). Feature must be turned on in circle track settings to show button on guidance map. Once button is on guidance map, select button to show or hide distance.

There are two methods to create a circle track:

Lat/Lon Circle



PC20396—UN—08DEC14

Lat/Lon Circle

- If latitude and longitude coordinates at center of a pivot are known, enter location to create a circle track.

Drive Circle



PC20397—UN—08DEC14

Drive Circle

- Latitude and longitude coordinates at center of a pivot are calculated from path driven. Concentric circle guidance lines are created from coordinates.
- It is recommended that entire circle is driven for optimum circle center calculation. Driving more than a complete circle does not increase accuracy of calculation.

Use Help Center onscreen help for more information about creating circle tracks.

AL70325,000041F-19-05APR17

Circle Track Edge



PC17399—UN—08DEC14

NOTE: Circle Track Edge can only be used on Generation 4 Displays. Edge information cannot be used on GreenStar™ 3 Displays.

Circle Track Edge represents outer boundary of a center pivot. It is displayed as an orange line on guidance map.

Creating a circle track edge allows guidance lines to be generated starting from edge. Otherwise, guidance lines are generated starting from center of pivot.

NOTE: Track spacing and working width must be equal for end of implement to line up against the edge.

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When guidance lines are created, the edge is the reference point, instead of the circle center. This can be useful if implements with different track spacings are used in the same field. Just enter a new track spacing, and guidance lines are adjusted starting at the edge. Guidance lines are generated based on the edge using track spacing and shifts. If edge is deleted, guidance lines are created from center outward.

CZ76372,0000738-19-15DEC14

Guide on a Circle Track

When operating circle track, it is not necessary to drive tracks in a specific order. The closest track is highlighted with a thicker white line.

Track number is displayed under path accuracy indicator, and automatically updates when new track is approached. Track number indicates number of lines away, and direction from Track 0. Track direction is shown relative to Track 0 (North, South, East, or West). Track number changes when machine is halfway between two tracks.

Path accuracy indicator shows off-track error distance. Off-track error shows distance from closest track to machine. Error counts up until machine reaches point halfway between two tracks. After reaching mid-point, error counts down as machine approaches next track.

CZ76372,0000734-19-08DEC14

Boundary Fill Track



PC23147—UN—05OCT16

Boundary Fill Track

Boundary Fill Track creates guidance lines from the dimensions of the exterior boundary and the track spacing.

NOTE: Boundary Fill Track does not utilize slope compensation. If operating in a sloped field, it is recommended to use Adaptive Curves.

The display creates three guidance lines based on boundary shape and track spacing, one line outside of the boundary and two lines inside of the boundary. Additional boundary tracks are created as the machine moves into the field.

NOTE: When shift track is selected, all tracks are adjusted and regenerated.

Straight Fill Track

Select Record Fill button to generate guidance lines using Straight Fill across the entire field within the boundary. Straight Fill Track utilizes the A + B method of Straight Track to generate guidance lines. When using Section Control, it is recommended that you complete the Boundary Fill Track passes before using Record Fill.

Boundary Fill Track cannot be exported to another display. If Boundary Fill Track is needed on another display, the same track can be generated using the same exterior boundary.

AL70325,0000454-19-06NOV17

Guide on a Boundary Fill Track

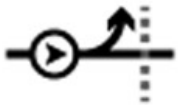
The closest track is highlighted with a thicker white line.

Track number is displayed under the path accuracy indicator and automatically updates when new track is approached. Track number indicates number of lines away and direction from Track 0. Track direction is shown relative to Track 0 (North, South, East, or West). Track number changes when machine is halfway between two tracks.

Path accuracy indicator shows off-track error distance. Off-track error shows distance from the closest track to machine. Error counts up until machine reaches point halfway between two tracks. After reaching mid-point, error counts down as machine approaches next track.

AL70325,0000455-19-06NOV17

Swap Track (Track Set)



PC17412—UN—15JUL13

Swap Track allows operators to switch between guidance lines. Swap Track can either be used by creating a Track Set (group of guidance lines) or by using the global track set (all available guidance lines on the display). When selected, Swap Track changes the guidance track based on the order of guidance lines in the Track Set.

NOTE: Swap Track works with existing guidance lines. Lines must be created and added to Track Set before using Swap Track.

Swap Track is enabled when a Track Set is selected in the Guidance Track List.

Swap To Next Track

NOTE: Swap Track button is grayed out when a Track Set is not selected.

To select the next guidance track, use one of the following methods:

- Select Swap button in the Next Track module.
- Select Swap Track in the shortcut bar.

Select a Track Set

1. Select Set Track button or select the Next Track run page module.
2. Select a Track Set from Guidance Track List page.

NOTE: Removing a line from a Track Set does not delete it from the display. Deleting a Track Set does not delete the lines in the Track Set from the display.

More information can be found in the Onscreen Help files.

AL70325,000041D-19-28APR17

AutoTrac™ Status Pie

AutoTrac™ icon has four stages represented by the AutoTrac™ Status Pie:

1. **Installed**



PC16645—UN—26FEB13

Installed

Steering controller and all other hardware necessary for use are installed.

- Steering controller is detected.
- AutoTrac™ activation is detected.

2. **Configured**



PC16646—UN—26FEB13

Configured

Tracking Mode has been determined and a valid Track 0 has been established. Correct StarFire™ signal level for AutoTrac™ activation is selected. The following machine conditions need to be met:

- Guidance system turned ON.
- Guidance Track 0 defined.
- StarFire™ signal is present.
- Steering controller has no active faults.
- Speed is in range.
- TCM message is currently available and valid.
- Machine in proper operating gear.

3. **Enabled**



PC16647—UN—26FEB13

Enabled

AutoTrac™ ON/OFF button has been pressed. All conditions are met for AutoTrac™ to operate and system is ready to be activated.

- Select STEER ON/OFF button to turn “Steer On”.

4. **Activated**



PC16648—UN—26FEB13

Activated

Resume switch has been pressed and AutoTrac™ is steering the machine.

- Press the machine Resume switch to activate AutoTrac™.

Last Exit Code: Indicates why AutoTrac™ is deactivated or will not activate. Exit codes show up in a new window shade at top of page.

AL70325,0000420-19-28APR17

Enable AutoTrac™



PC15304—UN—19MAR13

Steer ON/OFF Toggle

A—Steer On
B—Steer Off

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StarFire is a trademark of Deere & Company

The following criteria must be met for AutoTrac™ to be enabled:

- Machine has an AutoTrac™ capable steering control unit.
- Valid AutoTrac™ Activation.
- A guidance track has been created. See Create Guidance Track later in this section.
- Correct StarFire™ signal level for AutoTrac™ activation is selected (SF1, SF2, SF3, or RTK) and a valid GPS signal is acquired.
- AutoTrac™ with valid GPS signals, including SF1, SF2, SF3, or RTK.
- Steering control unit has no active faults.

NOTE: Machine type and software version of steering control unit determines minimum and maximum speeds allowed.

To enable AutoTrac™, select Steer ON/OFF toggle. This button disables AutoTrac™ if selected again.

CZ76372,000076B-19-21NOV16

Disable AutoTrac When Not In Use



PC15305—UN—19MAR13

Settings Icon

CAUTION: Always turn off (Deactivate and Disable) AutoTrac system before entering a roadway.

Guidance Master ON/OFF controls the Guidance Application. ON/OFF button on Run Pages only enables or disables AutoTrac, and does not turn off Guidance Application.

NOTE: Guidance application is disabled when Guidance Master is turned off. This includes all display guidance functionality.

Guidance Master can be found in guidance settings. Select SETTINGS icon at the top of the guidance application.

HC94949,0000399-19-15JUL14

Activate AutoTrac

CAUTION: While AutoTrac is activated, operator is responsible for steering at end of path and collision avoidance.

Do not attempt to turn on (Activate) AutoTrac system while transporting on a roadway.

1. Select STEER ON/OFF button to turn “Steer On”.
2. Drive the vehicle onto a guidance track and a highlighted navigation line will appear in front of the machine icon.
3. Manually ACTIVATE AutoTrac when steering assistance is desired by pressing the Resume Switch. This will initiate assisted steering.

HC94949,00003D6-19-13SEP13

Resume Switch



PC15303—UN—19MAR13

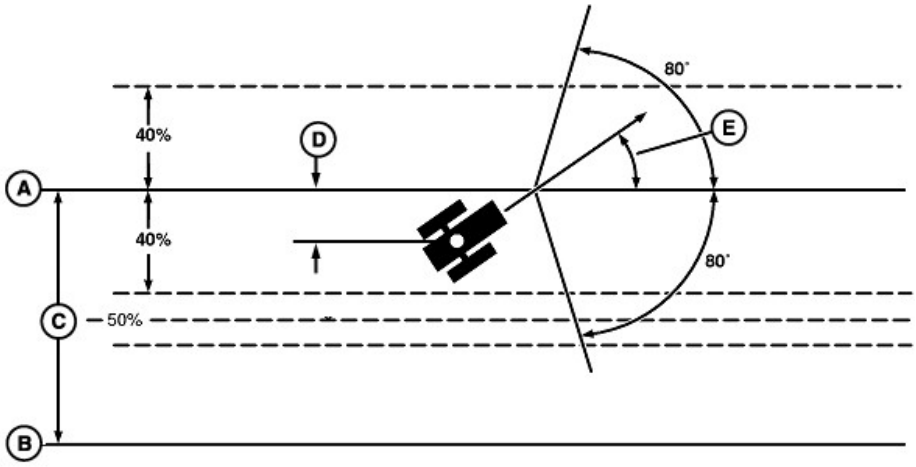
A—Resume Switch

Press the Resume Switch to move AutoTrac from the ENABLED stage to the ACTIVATED stage.

CZ76372,0000551-19-10APR13

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StarFire is a trademark of Deere & Company

Reactivate AutoTrac on Next Pass



PC8866—UN—02NOV05

Tracking

A—Track 0
B—Track 1 South
C—Track Spacing
D—Off-Track Lateral Error
E—Track Heading Error

Once the end of the row is reached, the operator must turn system to next pass. By turning steering wheel, AutoTrac is deactivated.

AutoTrac can be activated again by pressing Resume Switch only after following conditions are met:

- Steering Controller determines highest speed while AutoTracking.
- Forward machine speed is less than 30 km/h (18.6 mph).
- Reverse speed is less than 10 km/h (6 mph).
- In reverse AutoTrac will remain activated for 45 seconds. After 45 seconds, the machine must be put in a forward gear before reverse will activate again.
- Machine heading is within 80° of desired track.
- The machine is within 40% of track spacing.
- Operator is seated.
- TCM is on.

NOTE: The Track Number that is displayed on the map at half the distance between two guidance tracks.

HC94949,000039A-19-02OCT13

Deactivate AutoTrac™



PC15304—UN—19MAR13

STEER ON/OFF Toggle

A—Steer On
B—Steer Off

CAUTION: Always turn off (Deactivate and Disable) AutoTrac™ system before entering a roadway.

Deactivate AutoTrac™ by any of the following methods:

- Turning steering wheel.
- Exceeding speed of 30 km/h (18.6 mph). This number is based on steering control unit. Some machines can go faster than this speed.
- Degradation of differential correction signal from SF2, SF3, or RTK to WAAS/ EGNOS for longer than 3 minutes.
- Selecting STEER ON/OFF toggle.
- Operator out of seat for more than 7 seconds.
- Activated in neutral longer than 30 seconds.
- In reverse for longer than 45 seconds.
- Reverse speed exceeds 9.6 km/h (6 mph).

AutoTrac is a trademark of Deere & Company

To turn off AutoTrac™, toggle STEER ON/OFF button.

CZ76372,000076C-19-21NOV16

Minimum and Maximum Speeds

Machine and software version of Steering Controller determine minimum and maximum speeds.

Feature	Row Crop (Wheels)	Articulated	Tracks
Forward High Speed Limit	30 km/h (18.6 mph) – 6R, 7R, 8R, 9R	30 km/h (18.6 mph)	30 km/h (18.6 mph)
Reverse High Speed Limit	10 km/h (6 mph)	10 km/h (6 mph)	10 km/h (6 mph)
Low Speed Limit (Activate)	0.5 km/h (0.3 mph) – 7R, 8R, 9R 0.1 km/h (0.06 mph) - 6R	0.5 km/h (0.3 mph) 1.5 km/h (0.9 mph) – MST	0.5 km/h (0.3 mph)
Low Speed Limit (Deactivate)	0.5 km/h (0.3 mph)	0.5 km/h (0.3 mph) 1.5 km/h (0.9 mph) – MST	0.5 km/h (0.3 mph)
Neutral Allowable Time	Yes, < 30 Sec.	Yes, < 30 Sec. – PST only	Yes, < 30 Sec.
Reverse and Allowable Time	Yes, 45 Sec.	No	Yes, 45 Sec.

HC94949,00003A5-19-02OCT13

AutoTrac Deactivation Message

AutoTrac deactivation message – Each time AutoTrac is deactivated, two tones are followed by an alert explaining why it was deactivated. Messages are also displayed as to why AutoTrac did not activate. Deactivation messages display for 7 seconds and then disappear.

AutoTrac Deactivation Message	
Deactivation Message	**Description**
Steering wheel moved.	Operator turned steering wheel.
Vehicle speed too slow.	Vehicle speed is below minimum required speed.
Vehicle speed too fast.	Vehicle speed is above maximum allowed speed.
Current gear invalid.	Vehicle operating in an invalid gear.
AutoTrac could not maintain previous track.	Track number changed.
GPS signal is not adequate.	SF1, SF2, or RTK signal was lost.
Steering controller fault. Check for steering controller diagnostic trouble codes.	See John Deere dealer.
GreenStar Display Message Bad.	Reboot display. If problem persists, see John Deere dealer.
Select a Guidance Track.	Guidance Track is required to AutoTrac.
AutoTrac activation required.	AutoTrac activation required.
Angle of approach too large.	Vehicle is at an angle greater than 45 degrees from track.
Too far off track.	Vehicle not within 40% of track spacing.
Operator out of seat.	Out of seat too long for longer than 7 seconds.
Terrain Compensation (TCM) turned off or not communicating.	Make sure TCM is turned on.
Steering controller activation invalid.	Need SSU activation code. See John Deere dealer.
Steering controller in diagnostic mode.	See John Deere dealer.
Steering controller voltage not stable.	See John Deere dealer.
AutoTrac active in reverse too long	In reverse gear for more than 45 seconds.
Guidance track curve too sharp.	Maximum curvature has been exceeded.
Vehicle not travelling in a forward direction.	Vehicle must be in forward gear to activate.
Switched power line is low. Display may shut down.	Steering Controller may be shutting down. If problem persists, see John Deere dealer.
Bad gear data from vehicle.	See John Deere dealer.
Bad data from AutoTrac resume switch.	See John Deere dealer.
Keyswitch message is not sending valid data.	See John Deere dealer.
GPS vehicle speed does not match wheel based vehicle speed.	See John Deere dealer.
Vehicle is in park.	Vehicle must be in proper gear to AutoTrac.
Bad data from seat switch.	See John Deere dealer.

AutoTrac Deactivation Message	
Authorization not permitted.	See John Deere dealer.

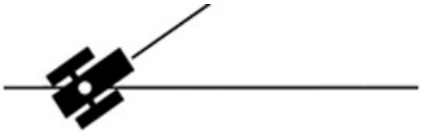
HC94949,000039C-19-26AUG13

Steering Optimization

Monitor Performance

Monitor performance shows heading error and tracking error. It is designed to aid in tuning of Advanced AutoTrac™ Settings. Heading error indicates relationship of machine's direction relative to current track. Tracking error displays machine's lateral error or offset relative to current track.

Heading Error Meter



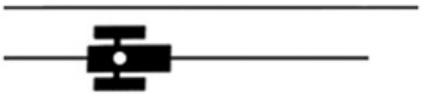
PC16972—UN—22MAY13

Heading Error Meter

Heading Error indicates relationship of machine's direction relative to current track. Heading Error should be within +/- 1 degree.

Adjustments may be needed if they are outside of this range.

Tracking Error Meter



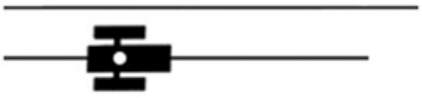
PC16969—UN—22MAY13

Tracking Error Meter

Tracking Error displays machine's lateral error or offset relative to current track. Arched bar graph value will update minimum and maximum Heading Error changes live during last 10 seconds.

NOTE: Steering Controller values are based on steering controls of machine.

Forward Steering Adjustments



PC16969—UN—22MAY13

Tracking Error



PC16971—UN—22MAY13

Forward High Setting Icon



PC16970—UN—22MAY13

Forward Low Setting Icon

Line Sensitivity Tracking

Determines how aggressively AutoTrac™ responds to off-track (lateral) error.

- Higher settings: Result in more aggressive response to machine off-track error.
- Lower settings: Result in less aggressive response to machine off-track error.
- Range: 50–200

Heading Lead



PC16976—UN—22MAY13

High Heading Lead



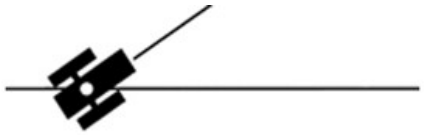
PC16977—UN—22MAY13

Low Heading Lead

Determines impact of yaw rate (machine rate of turn) on tracking performance. Heading lead acts as a look-ahead parameter and can be used to minimize over steering. Large adjustments may result in poor performance.

- Higher settings: Result in more aggressive response to yaw rate.
- Lower settings: Result in less aggressive response to yaw rate.
- Range: 50–130

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PC16972—UN—22MAY13

Heading Error

Line Sensitivity Heading



PC16974—UN—22MAY13

High Line Sensitivity Heading



PC16973—UN—22MAY13

Low Line Sensitivity Heading

Determines how aggressively AutoTrac™ responds to Heading Errors.

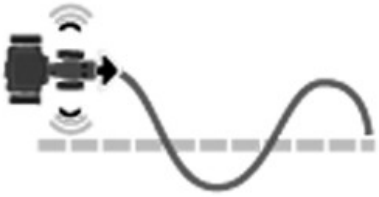
- Higher settings: Result in more aggressive response to machine heading error.
- Lower settings: Result in less aggressive response to machine heading error.
- Range: 50–200

Steering Response Rate



PC16980—UN—22MAY13

High Steering Response Rate



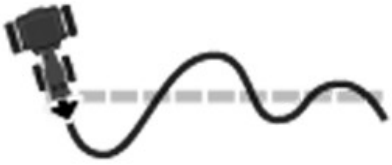
PC16979—UN—22MAY13

Low Steering Response Rate

Adjusts rate of machine steering to maintain tracking performance. Increasing steering responsiveness generally results in better tracking performance.

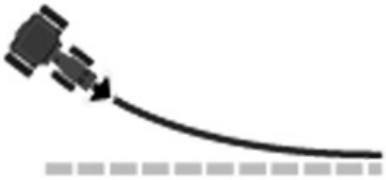
- Higher settings: Result in better tracking performance, but may also cause increased wheel motion or jittery behavior.
- Lower settings: Result in decreased wheel motion, but may also result in worse tracking performance.
- Range: 50–200

Acquire Sensitivity



PC16983—UN—22MAY13

High Acquire Sensitivity



PC16982—UN—22MAY13

Low Acquire Sensitivity

Determines how aggressively machine acquires track. This setting only affects performance while acquiring track.

- Higher settings: Result in aggressive line acquisitions.
- Lower settings: Result in smoother line acquisitions.
- Range: 50–200

Curve Sensitivity



PC16986—UN—22MAY13

High Curve Sensitivity



PC16985—UN—22MAY13

Low Curve Sensitivity

Determines how aggressively AutoTrac™ responds to a curve in track. This setting affects performance in curve track guidance only.

- Higher settings: Turn machine in a smaller radius (tighter) around curve.

- Lower settings: Turn machine in a larger radius around curve.
- Range: 50–200

Implement Steering

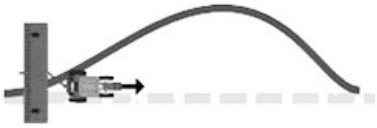
IMPORTANT: Implement center of rotation measurement is required for proper implement guidance function. See measure center of rotation in the onscreen help for instructions on accurately measuring center of rotation. Inaccurate center of rotation measurement can cause poor performance or damage to the implement.

Line Sensitivity Tracking



PC25026—UN—21NOV17

High Line Sensitivity Tracking



PC25027—UN—21NOV17

Low Line Sensitivity Tracking

Determines how aggressively AutoTrac™ responds to off-track (lateral) error.

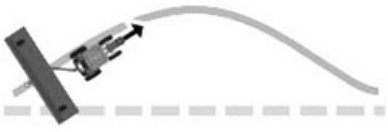
- Higher settings: Result in more aggressive response to an implement off-track error.
- Lower settings: Result in less aggressive response to an implement off-track error.

Line Sensitivity Heading



PC25024—UN—21NOV17

High Line Sensitivity Heading



PC25025—UN—21NOV17

Low Line Sensitivity Heading

Determines how aggressively AutoTrac™ responds to implement heading errors.

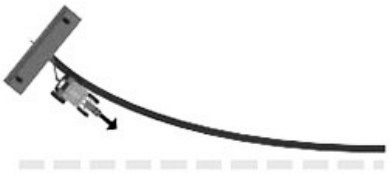
- Higher settings: Result in more aggressive response to an implement heading error.
- Lower settings: Result in less aggressive response to an implement heading error.

Acquire Sensitivity



PC25028—UN—21NOV17

High Acquire Sensitivity



PC25029—UN—21NOV17

Low Acquire Sensitivity

Determines how aggressively the machine acquires track. This setting only affects performance while acquiring track.

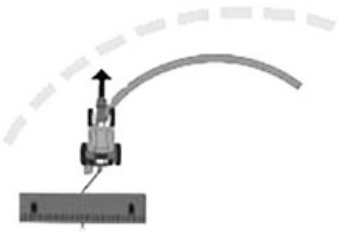
- Higher settings: Result in aggressive line acquisitions.
- Lower settings: Result in smoother line acquisitions.

Curve Sensitivity



PC25035—UN—22NOV17

High Curve Sensitivity



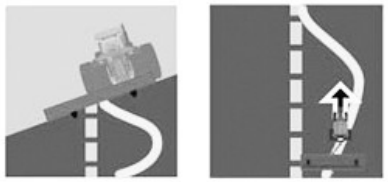
PC25036—UN—22NOV17

Low Curve Sensitivity

Determines how aggressively AutoTrac™ responds to a curve in track. This setting affects performance in curve track guidance only.

- Higher settings: Turn machine in a smaller radius (tighter) around curve.
- Lower settings: Turn machine in a larger radius around curve.

Slope Sensitivity



PC25037—UN—22NOV17

High Slope Sensitivity



PC25038—UN—22NOV17

Low Slope Sensitivity

NOTE: This setting may require adjustment as soil conditions change.

Determines how aggressively AutoTrac™ responds to changes in slope. Too high of a value and the tractor steers the implement uphill. Too low of a value and the tractor steers the implement downhill.

- Higher settings: Machine drives higher on the slope to compensate for an implement that is less resistant to sliding downhill.
- Lower settings: Machine drives lower on the slope to compensate for an implement that is more resistant to sliding downhill.

Slope Response Rate



PC25039—UN—22NOV17

High Slope Response Rate



PC25040—UN—22NOV17

Low Slope Response Rate

Determines how rapidly AutoTrac™ responds to a change in slope.

- Higher settings: Result in a more rapid response to a change in slope.
- Lower settings: Result in a less rapid response to a change in slope.

AL70325,0000458-19-07DEC17

AutoTrac™ RowSense™

AutoTrac™ RowSense™ is an enhancement to integrated AutoTrac™ when harvesting corn or applying product. Signals provided by row sensors are integrated with existing AutoTrac™ signals to keep machine on rows. When there is no signal from row sensors (driving through a waterway), normal global positioning system (GPS) guidance is used.

AutoTrac™ RowSense™ works with all tracking methods and most standard harvesting and application patterns. All tracking modes are set up the same way as they are with GPS based AutoTrac™.

Contact your John Deere dealer to purchase AutoTrac™ RowSense™.

AutoTrac™ RowSense™ Status Icons



PC24011—UN—31MAR17

Standby (White Icon)

System is inactive.



PC24008—UN—31MAR17

System Active (Green Icon)

System is active and operating with both row sensors and GPS.

AutoTrac is a trademark of Deere & Company
RowSense is a trademark of Deere & Company



PC24010—UN—31MAR17

No GPS Signal (Yellow Icon)

System is active and operating with row sensor data only.



PC24009—UN—31MAR17

No Row Sensor Signal (Orange Icon)

System is active and operating with GPS only.

Engage the Row Sensors

Once initial path has been set, resume button can be pressed when combine is within half the track spacing and at an acceptable angle to the rows. RowSense™ guides the combine as soon as the row sensors are able to determine row position.

Headland turns are accomplished the same as with GPS based AutoTrac™.

1. Operator lines up with path.
2. Press resume button to engage AutoTrac™.
3. Row sensors detect position of row and follow it.

Line extension feature of Adaptive Curves, Circle Track, and AB Curves can be used to extend adjacent path projection into headlands.

Row Dropout

Row dropout occurs when row sensor data is lost. AutoTrac™ operates using GPS until row data is reacquired. This dropout can occur when entering waterways.

When using straight track or AB curve track and the row drops out, the guidance track is recentered. This method provides a greater chance AutoTrac™ RowSense™ reacquires correct track on the other side of waterway.

AL70325,000041E-19-28APR17

Troubleshooting

NOTE: AutoTrac™ has been tuned to perform successfully in most field conditions using a variety of implements. For abnormal conditions, Advanced Settings allow the operator to fine tune systems for specific field conditions and implements. Adjust steering sensitivity before using the steps in the following scenarios.

Check and fix other problems before tuning. Perform necessary mechanical checks and calibrations through associated machine. If this step is not performed, machine faults may occur or operator wastes time tuning a system that cannot be tuned.

Excessive Wheel Motion: Overall AutoTrac™Performance is acceptable, but wheels quickly twitch back and forth.

Aggressive S-ing Motion: Continual back and forth motion is observed by looking over front nose of machine. Motion is observed, but off-track error shown on display (distance away from the A–B line) is often relatively small.

Lazy S-ing Motion: Performance of AutoTrac™ seems sluggish when trying to stay on line and slowly wanders from side to side.

Lazy Line Acquisition: AutoTrac™ appears sluggish during line acquisition. Tractor remains off to one side of line for a long time before getting lined up.

Aggressive Line Acquisition: AutoTrac™ overshoots line and continues to overcompensate during acquisition, resulting in a high frequency, tight S-ing pattern during acquisitions.

Tracking Outside of Curve: AutoTrac™ is sluggish in a curve track, resulting in slow, wandering S-ing about the desired line. This line often tracks to the outside of the desired path.

Tracking Inside of a Curve: AutoTrac™ exhibits rapid and high frequency corrections in Curve Track Mode, resulting in a tight S-ing pattern, or tracking to the inside of the desired path.

NOTE: For troubleshooting techniques, refer to the Onscreen Help files.

General Tuning

Adjustment recommendations:

- Steering Sensitivity: Set at 100 before making other adjustments. Adjust in increments of 10.
- Line Sensitivity Tracking: Adjust in increments of 20.
- Line Sensitivity Heading: Adjust in increments of 10.
- Heading Lead: Adjust in increments of 10.
- Steering Response Rate: Adjust in increments of 10.
- Acquire Sensitivity: Adjust in increments of 20.
- Curve Sensitivity: Adjust in increments of 20.

One Value at a Time: Attempt to adjust settings in problem field conditions while AutoTrac™ is active by performing the following steps:

1. Start with factory default settings. Steering Sensitivity value correlates to value on Guidance View Tab. Attempt to use a value for this setting that is similar to

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running conditions (70 for concrete, 100 for most conditions, and 120 for soft ground). This number may still need to be modified beyond suggested settings.

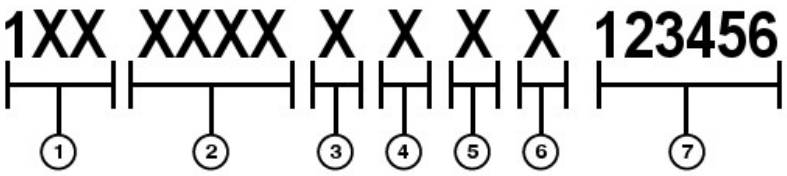
2. While AutoTrac™ is active in problem conditions (such as speeds, ground, and tire setup), increase or reduce Line Sensitivity Heading by a factor of 10.
3. If change in Line Sensitivity Heading is ineffective at addressing issue, reset Line Sensitivity Heading parameter. Increase or reduce Heading Lead in same manner as previous step.
4. If none of the previous steps were effective, reset Heading Lead and increase or reduce Steering Response Rate in a similar fashion to the previous steps.

Combining Settings: If above procedure does not give satisfactory performance and once operator becomes more comfortable with how parameters change AutoTrac™ performance, try different combinations of parameters while AutoTrac™ is active.

AL70325,000043E-19-28APR17

Machine Identification Numbers

Interpreting Machine Serial Number



H105725—UN—22AUG12

1	Manufacturer Code	Harvesting Manufacturing Facilities	
		CQ - John Deere Horizontina H0 - John Deere Harvester Works JZ - John Deere Domodedovo KM - Machinenfabrik Kemper GmbH & Co. KG PY - John Deere India Pvt. Ltd	SA - SABO Maschinenfabrik GmbH YC - John Deere (Jiamusi) Agricultural Machinery Co., Ltd. YH - John Deere (Harbin) Agriculture Machinery Co., Ltd Z0 - John Deere Werke Zweibrucken
2	Machine Model Identifier		
3	Model Identifier Suffix Machine Configuration Code Additional Machine Information		Example: N, T, W, etc.
4	Check Letter		Example: A, B, C, D, etc.
5	Calendar Year of Manufacture		Refer to Year of Manufacture Code table
6	Additional Information		
7	Manufacturing Serial Number		Example: 000001, 000127, etc.

Year of Manufacture Code							
Year	**Code**	**Year**	**Code**	**Year**	**Code**	**Year**	**Code**
2008	8	2018	J	2028	W	2038	8
2009	9	2019	K	2029	X	2039	9
2010	A	2020	L	2030	Y	2040	A
2011	B	2021	M	2031	1	2041	B
2012	C	2022	N	2032	2	2042	C
2013	D	2023	P	2033	3	2043	D
2014	E	2024	R	2034	4	2044	E
2015	F	2025	S	2035	5	2045	F
2016	G	2026	T	2036	6	2046	G
2017	H	2027	V	2037	7	2047	H

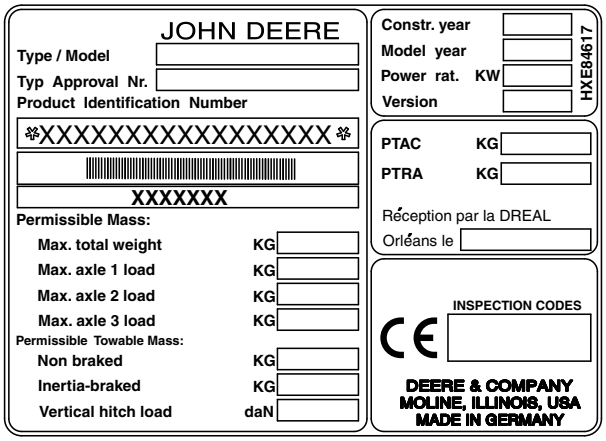
OUO6075,000431C-19-29JUN16

Identification Numbers

Your machine has these various identification plates. The letters and numbers stamped on these plates identify a component or assembly. ALL of these characters are needed when ordering parts or identifying a machine or component for any John Deere product support program. Also, they are needed for law enforcement to trace your machine if it is ever stolen. ACCURATELY record these characters in the spaces provided in each of the following photographs.

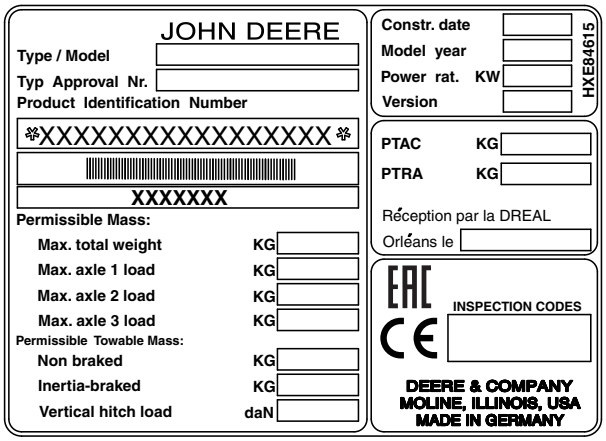
OUO6075,0000BE0-19-04MAY11

Machine Identification Plate



H111480—UN—08JUL14

Sample Identification Plate



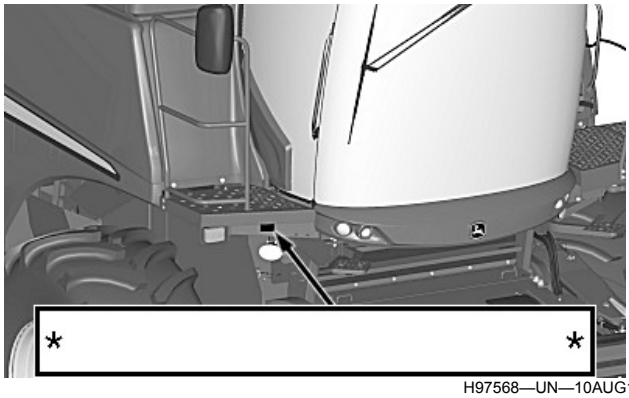
H111516—UN—09JUL14

Sample Identification Plate

NOTE: Machine identification plate varies depending on where machine is shipped. Locate identification plate on machine and compare with information shown here.

OUO6075,0001877-19-08JUL14

Machine Identification Plate Location

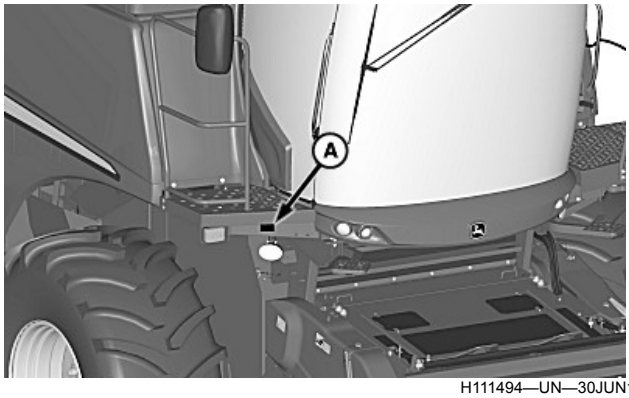


H97568—UN—10AUG10

Located on right-hand side of cab handrail landing.

OUO6075,0000BE1-19-04MAY11

Eurasian Economic Union Compliance Label Location



H111494—UN—30JUN14

A—Compliance Label

NOTE: This information applies only to products which bear the EAC conformity mark of the Eurasian Economic Union member states.

Compliance label (A) is located on right-hand side of cab handrail landing.

OUO6075,00041B8-19-12NOV15

Interpreting Engine Serial Number (9.0 L Engine)



H112201—UN—06NOV14

Sample Engine Serial Number Plate

Each engine has a 13 digit John Deere engine serial number identifying the producing factory, engine model designation, and a 6 digit sequential number.

Engine Serial Number (A)

9.0 L Example (RG6090U123456)

RG . . . . . Factory Code Producing Engine
- RG . . . . . Waterloo, Iowa, USA

6090 . . . . . .Number of Cylinders and Total Displacement
- 6090 . . . . . .6 Cylinders, 9.0 liters

U . . . . . .Emission Certification
- B. . . . . .Non-Certified
- C. . . . . .Tier 1/Stage 1
- D. . . . . .Tier 2/Stage II
- L . . . . . .Tier 3/Stage III A
- R. . . . . Interim Tier 4/Stage III B
- U or V . . . . . Final Tier 4/Stage IV and Stage V

123456 . . . . . Engine Serial Number

Engine Model Number (B)

9.0 L Example (6090HFC09)

H . . . . . Engine Aspiration
- D. . . . . Naturally aspirated
- T. . . . . Turbocharged
- A. . . . . .Turbocharged and aftercooled, air-to-coolant
- H. . . . . Turbocharged and aftercooled, air-to-air
- S. . . . . .Turbocharged and aftercooled, air-to-sea water

F . . . . . .User Type
- F. . . . . .OEM (John Deere Power Systems
- XX. . . Other letters are used to identify John Deere Equipment manufacturing locations

C . . . . . .Industrial
- C. . . . . .Industrial
- G. . . . . Gen-Set

09. . . . . Engine Configuration
- 09 . . . . . .PSS (Series Turbochargers, DOC/DPF and SCR)

9.0 L Example (6090HFC09)

- 94 . . . . . .PVX (Single VGT Turbocharger)
- 95 . . . . . PSX (Series Turbochargers and Aftertreatment)

OUO6075,000482B-19-11JAN18

Interpreting Engine Serial Number (13.5 L Engine)



H112201—UN—06NOV14

Sample Engine Serial Number Plate

Each engine has a 13 digit John Deere engine serial number identifying the producing factory, engine model designation, and a 6 digit sequential number.

Engine Serial Number (A)

13.5 L Example (RG6135U123456)

RG . . . . . Factory Code Producing Engine
- RG . . . . . Waterloo, Iowa, USA

6135 . . . . . .Number of Cylinders and Total Displacement
- 6135 . . . . . .6 Cylinders, 13.5 liters

U . . . . . .Emission Certification
- B. . . . . .Non-Certified
- C. . . . . .Tier 1/Stage 1
- D. . . . . .Tier 2/Stage II
- L . . . . . .Tier 3/Stage III A
- R. . . . . Interim Tier 4/Stage III B
- U or V . . . . . Final Tier 4/Stage IV and Stage V

123456 . . . . . Engine Serial Number

Engine Model Number (B)

13.5 L Example (6135HFC09)

H . . . . . Engine Aspiration
- D. . . . . Naturally aspirated
- T. . . . . Turbocharged
- A. . . . . .Turbocharged and aftercooled, air-to-coolant
- H. . . . . Turbocharged and aftercooled, air-to-air
- S. . . . . .Turbocharged and aftercooled, air-to-sea water

F . . . . . .User Type
- F. . . . . .OEM (John Deere Power Systems

13.5 L Example (6135HFC09)

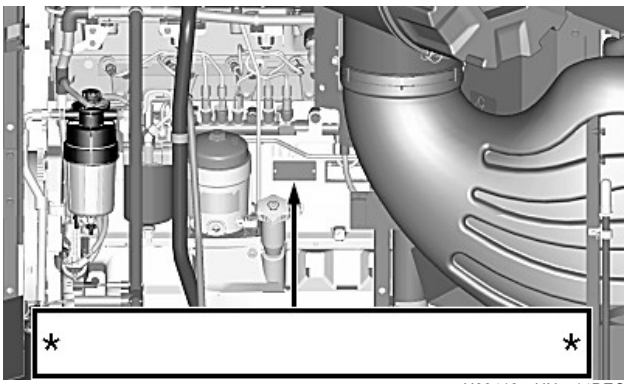
- XX. . . Other letters are used to identify John Deere Equipment manufacturing locations

C . . . . . Industrial
- C. . . . . .Industrial
- G. . . . . Gen-Set

09. . . . . Engine Configuration
- 09 . . . . . PSS (Series Turbochargers, DOC/DPF and SCR)
- 94 . . . . . .PVX (Single VGT Turbocharger)
- 95 . . . . . PSX (Series Turbochargers and Aftertreatment)

OUO6075,000482C-19-21NOV17

Engine Serial Number (Tier 2/Stage II)



H99413—UN—14DEC10

Style A



H99437—UN—14DEC10

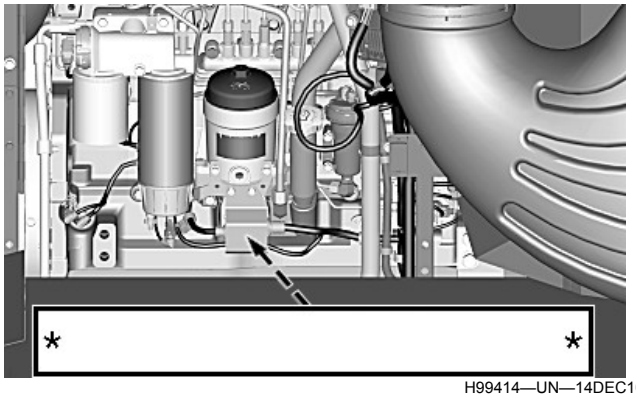
Style B

Style A: located on rear side of engine.

Style B: located on front side of engine above starter.

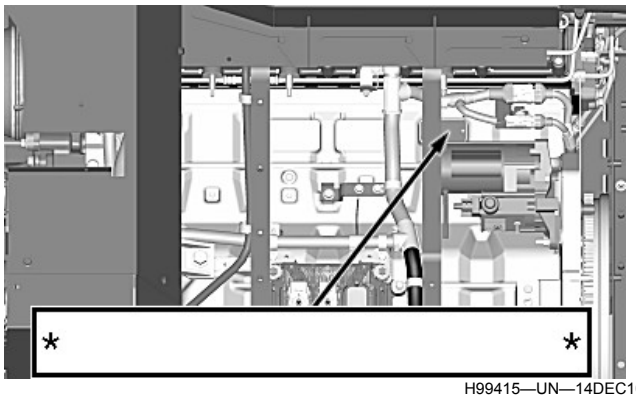
OUO6075,00044A4-19-14NOV16

Engine Serial Number (Final Tier 4/Stage V)



H99414—UN—14DEC10

Style A



H99415—UN—14DEC10

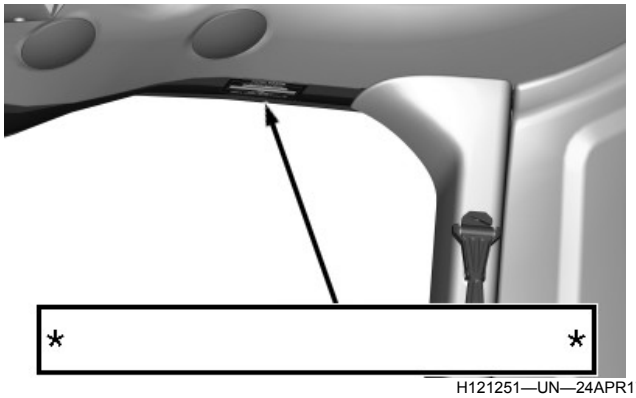
Style B

Style A: located on the rear side of the engine.

Style B: located on the front side of the engine above the starter.

OUO6075,000482A-19-14NOV17

Cab Serial Number

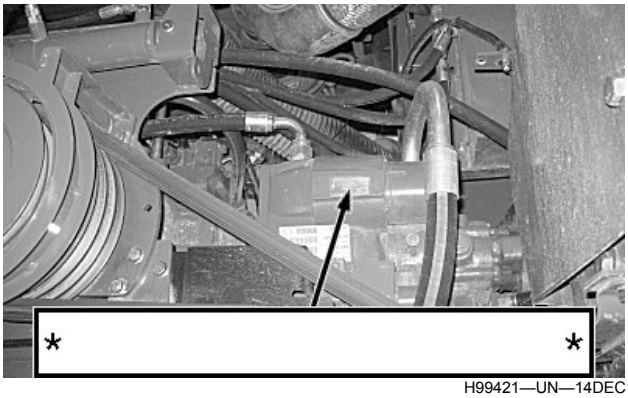


H121251—UN—24APR17

Located in the upper rear right-hand corner of the cab.

OUO6075,0004716-19-13APR17

Hydrostatic Drive Unit Pump



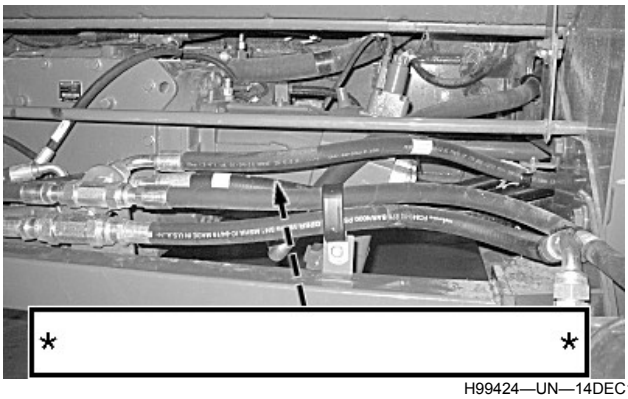
H99421—UN—14DEC10

Mechanical Shift and Push Button Shift Machines Shown

Located on side of hydrostatic drive pump.

OUO6075,0001059-19-27FEB12

Hydrostatic Drive Unit Motor



H99424—UN—14DEC10

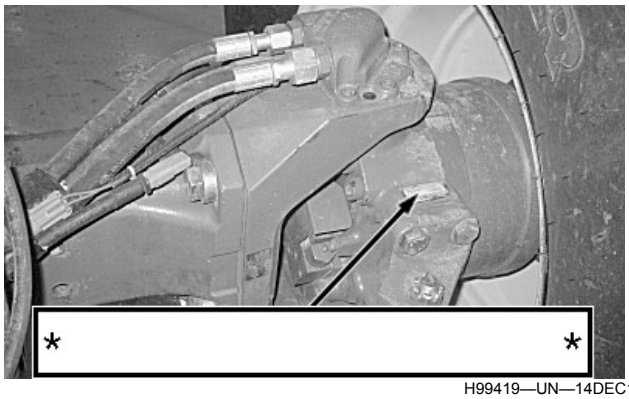
ProDrive Machine Shown

Mechanical Shift and Push Button Shift Machines: located on top side of hydrostatic drive motor.

ProDrive Machines: located on bottom side of hydrostatic drive motor.

OUO6075,0001058-19-27FEB12

Two Speed Four-Wheel Drive Motor

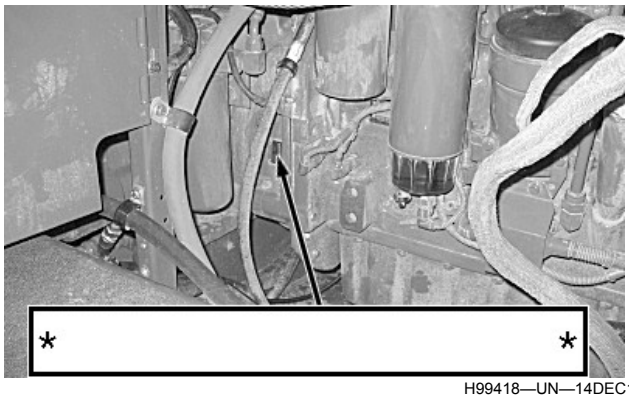


H99419—UN—14DEC10

Located on top side of four-wheel drive motor.

OUO6075,0000AF4-19-14APR11

Engine Gear Case

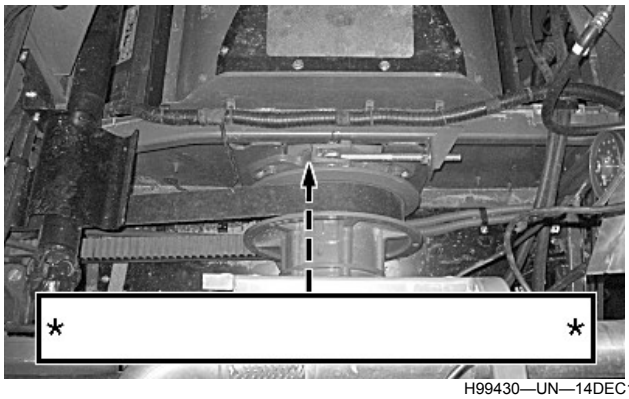


H99418—UN—14DEC10

Located on the rear side of the engine gear case.

OUO6075,00046E7-19-28MAR17

Rotor Drive Gear Case

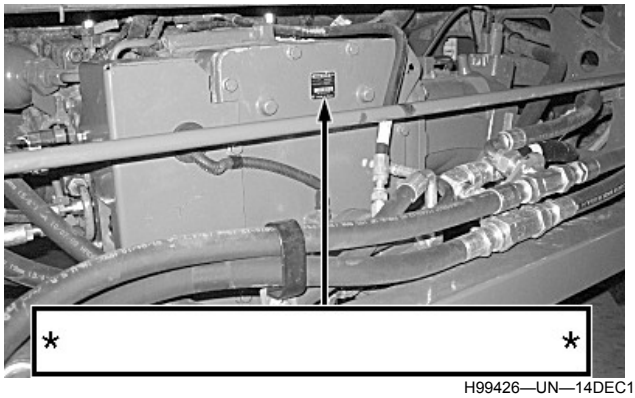


H99430—UN—14DEC10

Located on the left-hand side of the rotor drive gear case.

OUO6075,00046E8-19-28MAR17

Transmission



H99426—UN—14DEC10

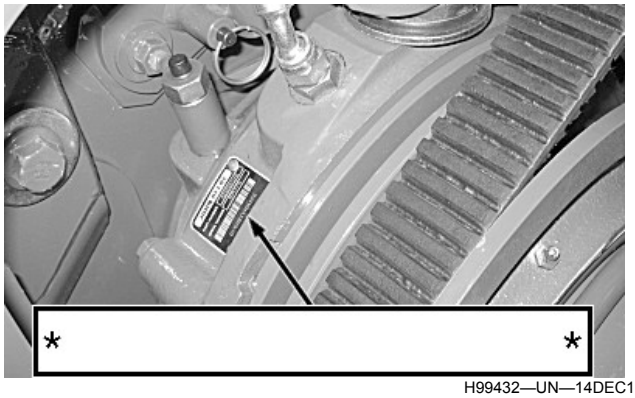
ProDrive Transmission Shown

Mechanical Shift and Push Button Shift Machines: located on side of transmission

ProDrive Machines: located on front of transmission

OUO6075,0001056-19-27FEB12

Feeder House Reverser

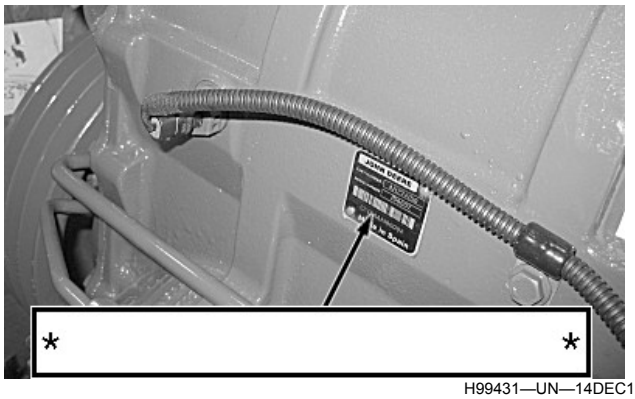


H99432—UN—14DEC10

Located on top side of feeder house reverser.

OUO6075,0000AF9-19-14DEC10

Multi-Speed Feeder House Gear Case (If Equipped)

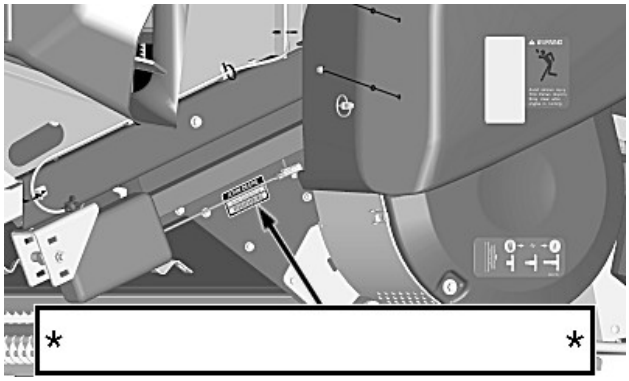


H99431—UN—14DEC10

Located on the rear side of the multi-speed feeder house gear case.

OUO6075,00046E9-19-28MAR17

Chopper (If Equipped)

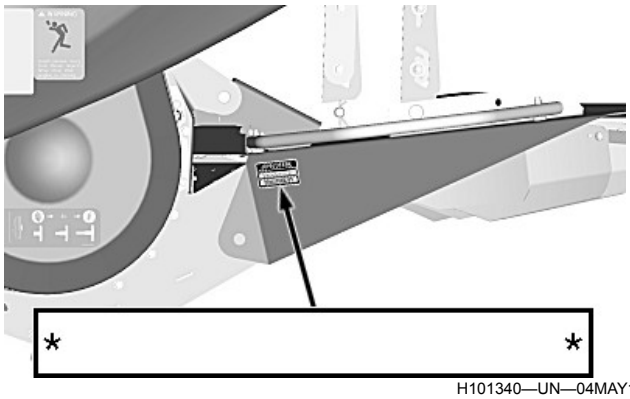


H101339—UN—04MAY11

Located on left-hand side of chopper.

OUO6075,0000C27-19-04MAY11

Vane Tailboard (Deluxe, Intermediate and Premium Residue)



H101340—UN—04MAY11

Located on left-hand side of vane tailboard.

OUO6075,0001820-19-28MAY14

Advanced PowerCast™ Tailboard (Intermediate and Premium Residue)

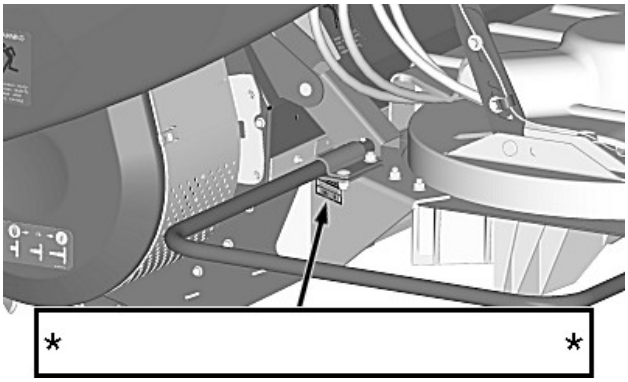


H101342—UN—04MAY11

Located on left-hand side of Advanced PowerCast™ tailboard.

OUO6075,0001821-19-28MAY14

PowerCast Tailboard (Deluxe Residue)

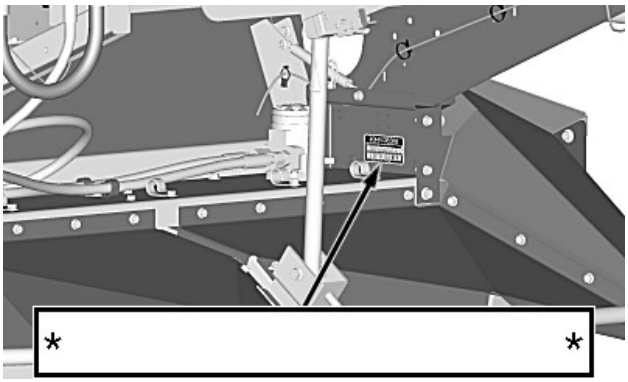


H101343—UN—04MAY11

Located on left-hand side of PowerCast tailboard.

OUO6075,0000C2A-19-04MAY11

Spreader (Deluxe Residue)



H101344—UN—04MAY11

Located on right-hand inside of spreader.

OUO6075,0000C2B-19-04MAY11

Keep Proof of Ownership

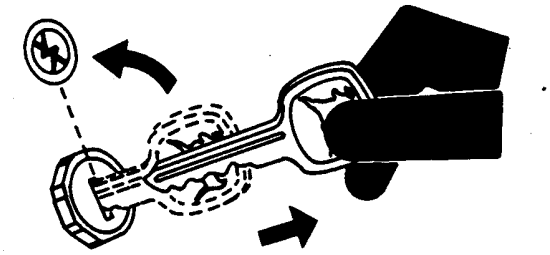


TS1680—UN—09DEC03

1. Maintain in a secure location an up-to-date inventory of all product and component serial numbers.
2. Regularly verify that identification plates have not been removed. Report any evidence of tampering to law enforcement agencies and order duplicate plates.
3. Other steps you can take:
   - Mark your machine with your own numbering system
   - Take color photographs from several angles of each machine

DX,SECURE1-19-18NOV03

Keep Machines Secure



TS230—UN—24MAY89

1. Install vandal-proof devices.
2. When machine is in storage:
   - Lower equipment to the ground
   - Set wheels to widest position to make loading more difficult
   - Remove any keys and batteries
3. When parking indoors, put large equipment in front of exits and lock your storage buildings.

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4. When parking outdoors, store in a well-lighted and fenced area.
5. Make note of suspicious activity and report any thefts immediately to law enforcement agencies.
6. Notify your John Deere dealer of any losses.

DX,SECURE2-19-18NOV03

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John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Publications are available in print or CD-ROM format.

Orders can be made using one of the following:

- John Deere Technical Information Store: **www.JohnDeere.com/TechInfoStore**
- Call 1-800-522-7448
- Contact your John Deere dealer

Available information includes:



TS189—UN—17JAN89

PARTS CATALOGS list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.



TS191—UN—02DEC88

OPERATOR'S MANUALS providing safety, operating, maintenance, and service information.



TS224—UN—17JAN89

TECHNICAL MANUALS outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in a separate component technical manual.



TS1663—UN—10OCT97

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- Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
- Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.
- Fundamentals of Compact Equipment manuals provide instruction in servicing and maintaining equipment up to 40 PTO horsepower.

DX,SERVLIT-19-07DEC16

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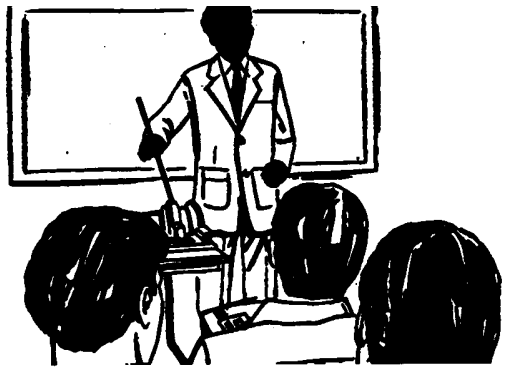


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Our goal is to provide prompt, efficient care when you want it and where you want it.

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