

706C, 708C, 712C, 716C, 718C, and StalkMaster™ Corn Heads (North American Edition)

(Serial No. 810001 -)



JOHN DEERE

OPERATOR'S MANUAL

706C, 708C, 712C, 716C, 718C, and StalkMaster™ Corn Heads

OMHXE147353 ISSUE G9 (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 Harvester Works

North American 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 in the direction the implement will travel when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I. N.) in the Specification 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.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

If you are not the original owner of this machine, it is in your interest to contact your local John Deere dealer to inform them of this unit's serial number. This will help John Deere notify you of any issues or product improvements.

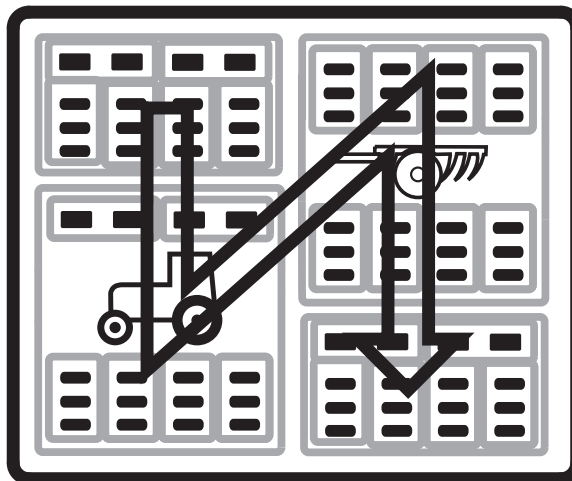
DX,IFC2A-19-03APR09

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.

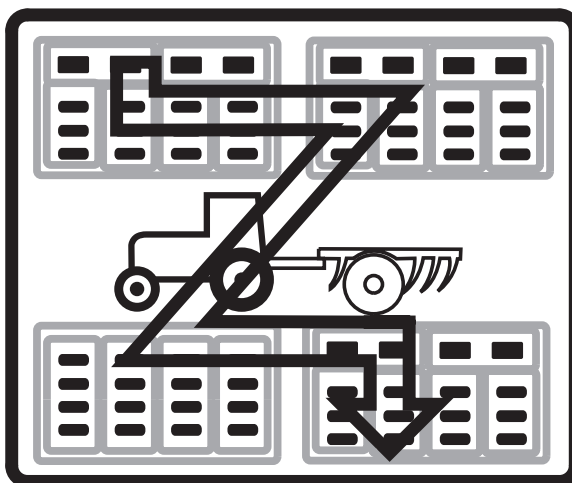
Information in this manual is divided into sections. The section names are identified in the table of contents and at the top of each page. Each section has a unique number and page count. Specific information within each section is organized into topics identified with bold headings.

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

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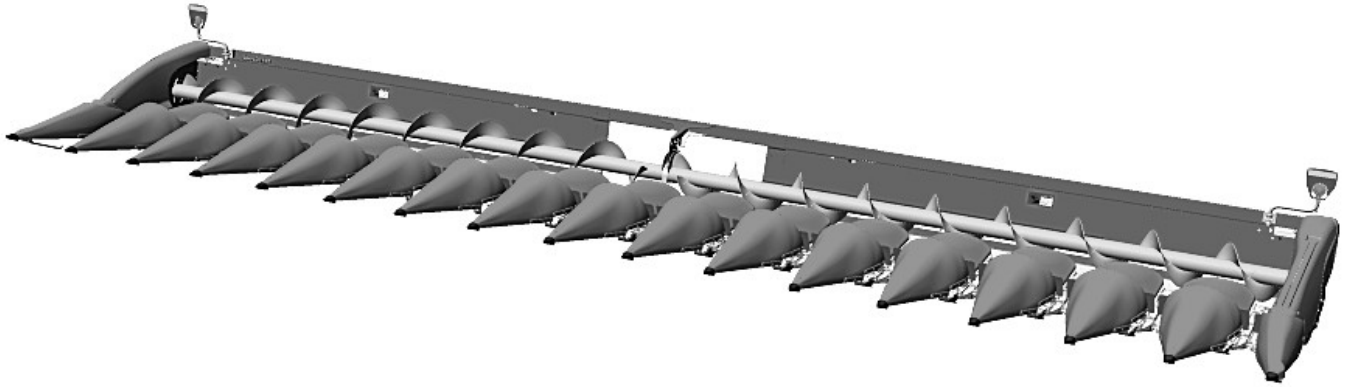
The flow can divide both before and after the images and tables that span the width of a page.

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

Thanks again for purchasing this machine.

OUC6075,00049D4-19-08JUN18

Identification View



H102469—UN—29JUN11
SS43267,00002FF-19-01NOV13

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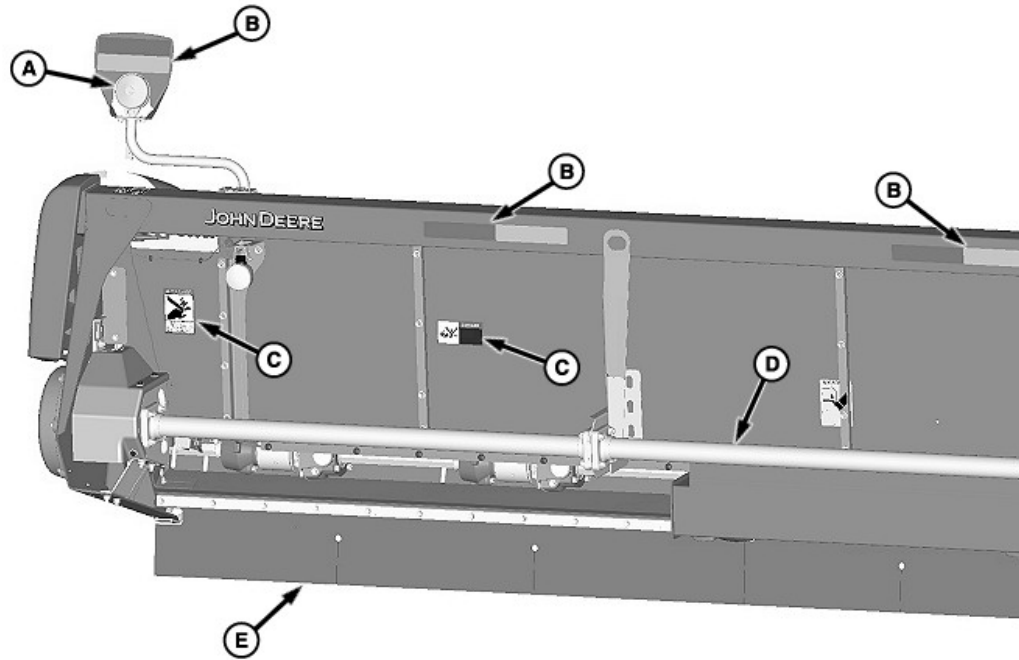
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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety Features

Header Safety Features



A—Warning Light
B—Reflective Tape
C—Safety Decals

D—Drive Shaft Shields
E—Curtains (Chopping Models Only)

In addition to the safety features shown here, additional decals plus safety messages and instructions in the

Operators Manual contribute to the proper operation of this corn head.

H114321—UN—05JUN15

DM84283,00006F5-19-21MAY15

Safety

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



▲ WARNING

▲ CAUTION

TS187—19—30SEP88

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

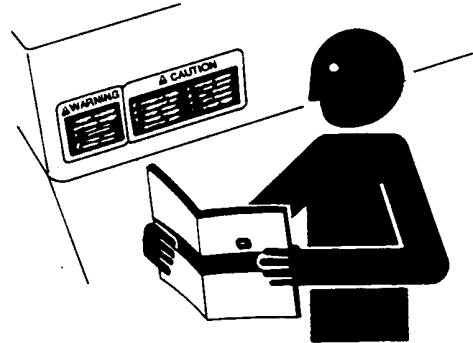
WARNING; The signal word WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

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

French and Spanish Safety Signs and Operator's Manual

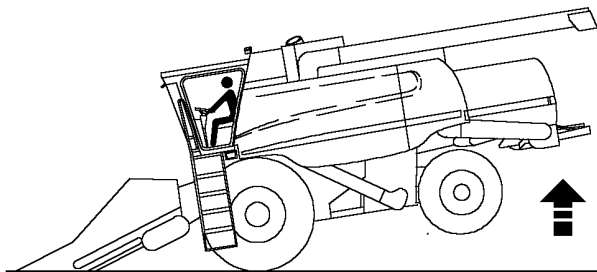


TS201—UN—15APR13

French and Spanish versions of the operator's manual and safety signs are available for this machine through authorized John Deere dealers. See your John Deere dealer.

OUC6075,0004A7E-19-12DEC18

Ballasting for Safe Ground Contact



H51907—UN—10FEB99

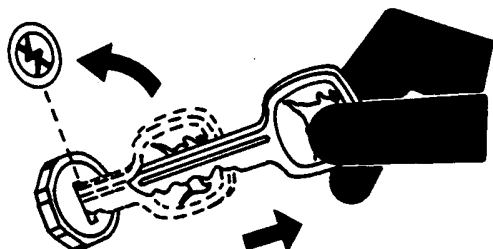
Operating, steering and braking performance of combine can be considerably affected by heavy front end attachments which alter the center of gravity of the combine.

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

Parking and Leaving the Machine



TS230—UN—24MAY89

Lower harvesting unit to the ground.

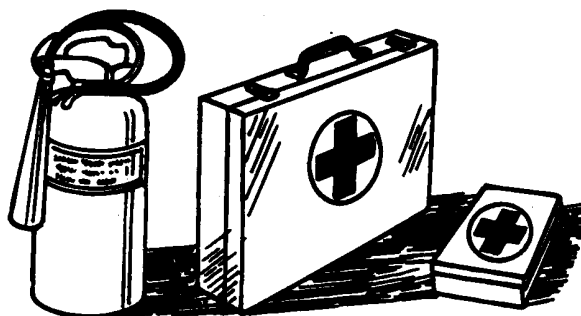
Before leaving machine, disengage harvesting unit and separator. Move multi-function lever to neutral position and shut OFF machine. Apply parking brake, remove key, and lock the operator's cab.

Never leave machine unattended as long as engine is running.

Never leave the operator's cab when driving.

OOU6075,0000AEB-19-11FEB14

Prepare for Emergencies



TS291—UN—15APR13

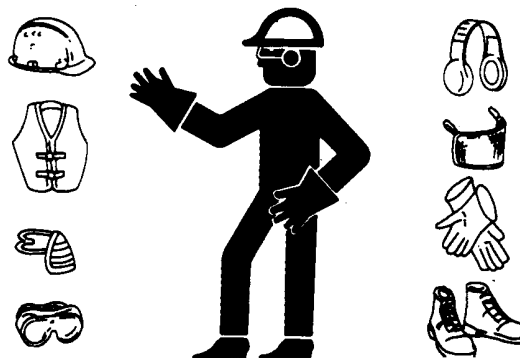
Be prepared if a fire starts.

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

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

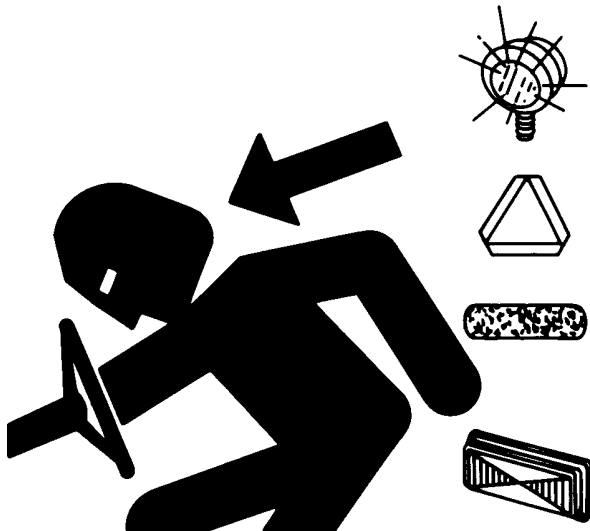


ES118704—UN—21MAR95

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.

OUC6075,00009E5-19-28SEP10

Use Safety Lights and Devices

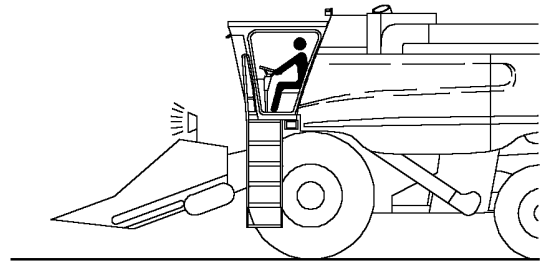


Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use turn signal lights.

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. An implement safety lighting kit is available from your John Deere dealer.

DX,FLASH-19-07JUL99

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.

OUC6075,0000034-19-22JAN01

Road Transport Disconnect Switch



H121089—UN—15MAR17
Road Transport
Disconnect (Style A)



H117022—UN—28MAR16
Road Transport
Disconnect (Style B)

Road transport disconnect switch must be in road position when transporting machine on roadway.

When road transport disconnect switch is pressed, indicator light turns ON indicating switch is in road position. Road transport disconnect switch prevents the following functions:

- Header Height Resume
- Header Height Sensing
- Lateral Tilt
- Reel Raise/Lower and Reel Fore/Aft
- Unloading Auger
- Auger Swing
- Power Folding Auger (If Equipped)
- Separator Engage
- Header Engage
- Header Raise/Lower

After transporting machine on roadway and field operation is desired, press road transport disconnect

switch for **two seconds**, allowing indicator light to turn OFF and allowing desired switch functions to operate again.

OUO6075,00046B5-19-24APR17

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.

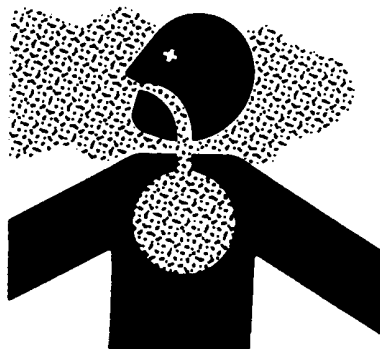
On towed implements, disconnect wiring harnesses from tractor before servicing electrical system components or welding on machine.

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

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

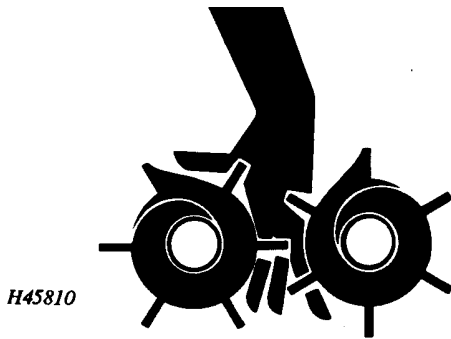


TS256—UN—23AUG88

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

JK22594,00000E3-19-15AUG06

Avoid Entanglement



H45810

H45810—UN—22JUL93

To avoid entanglement, do not feed crop material into machine by hand or attempt to manually unplug machine while it is running. The machine can feed the crop material in faster than you can release your grip on the material.

SS43267,0000113-19-10SEP12

Stay Clear of Rotating Drivelines



TS1644—UN—22AUG95

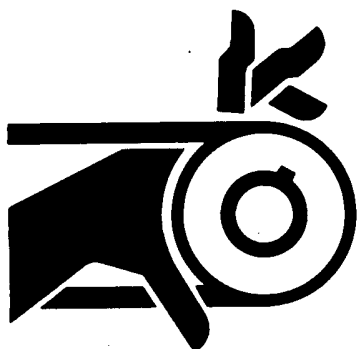
Entanglement in rotating driveline can cause serious injury or death.

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

Guards and Shields



TS285—UN—23AUG88

Keep guards and shields in place at all times. Ensure that they are serviceable and installed correctly.

Always disengage main clutch, shut off engine and remove key before removing any guards or shields.

Keep hands, feet and clothing away from moving parts.

JK22594,00000E5-19-15AUG06

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

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.

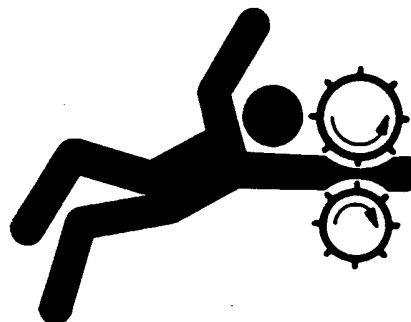
Relieve pressure from the pressurized system before removing accumulator.

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

Service Machines Safely



TS228—UN—23AUG88

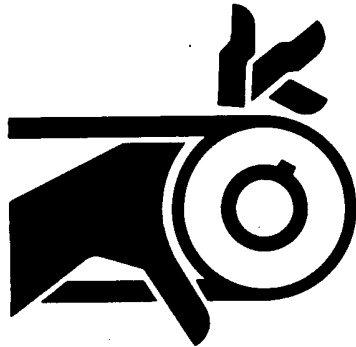
Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near

machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.

DX, LOOSE-19-04JUN90

Service Drive Belts Safely



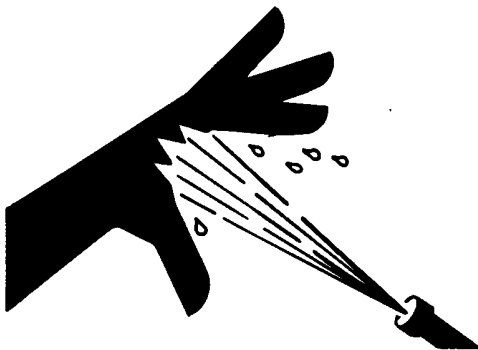
TS285—UN—23AUG88

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.

OOU6075,00026A4-19-06FEB03

Protect Against High Pressure Spray



TS1343—UN—18MAR92

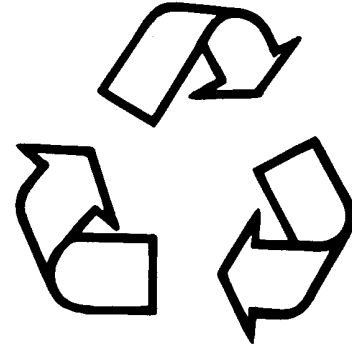
Spray from high pressure nozzles can penetrate the skin and cause serious injury. Keep spray from contacting hands or body.

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

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.

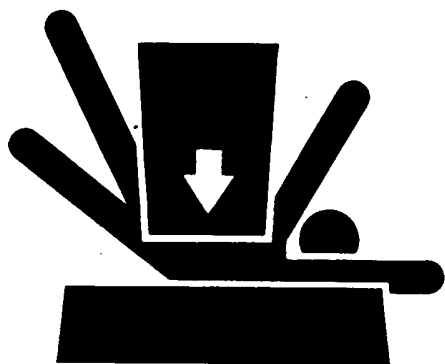
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

DX,DRAIN-19-01JUN15

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

DX,STORE-19-03MAR93

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

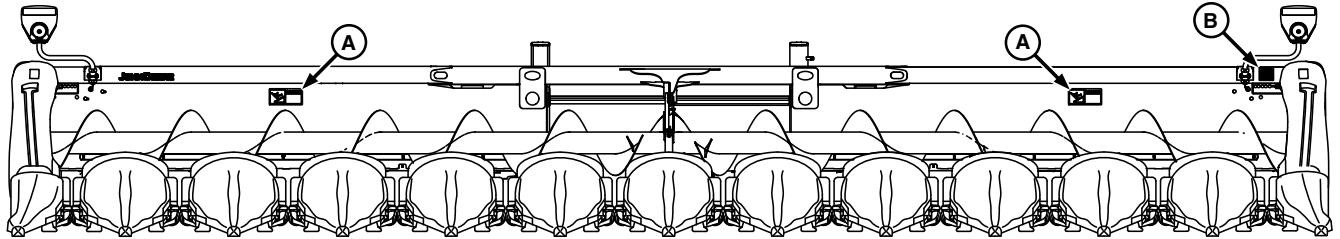


TS219—UN—23AUG88

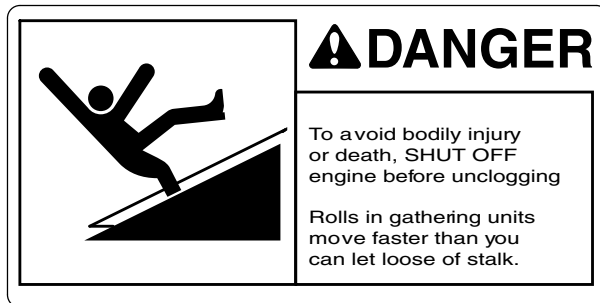
Stored attachments such as dual wheels, cage wheels, and loaders can fall and cause serious injury or death.

Safety Signs

Front View Decals

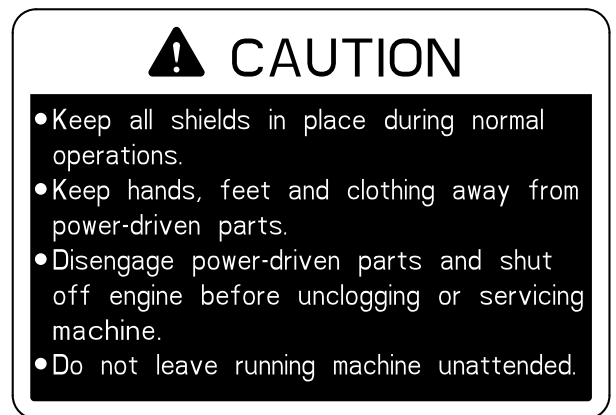


H122725—UN—15NOV17



SSH151336—19—18JUL05

Decal A

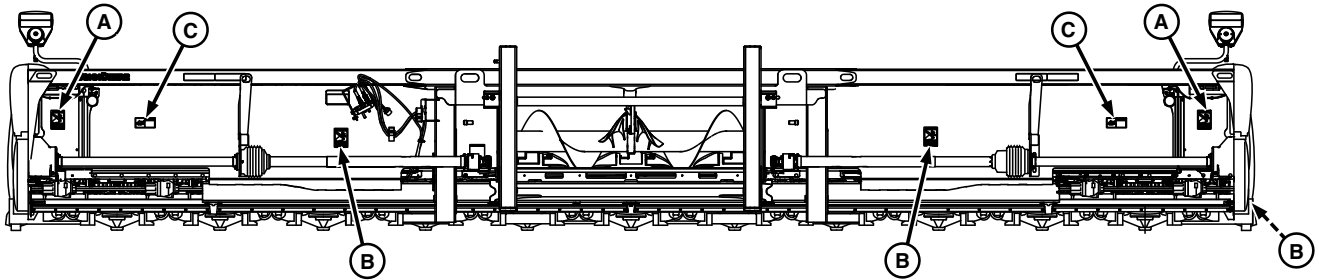


SSHXE19649—19—07APR11

Decal B

AZ06166,000044A-19-20NOV17

Rear View Decals



H105712—UN—16AUG12



SSH209453—19—06APR05

Decal A



SSH218511—19—15OCT07

Decal B (Chopping Corn Head Only)

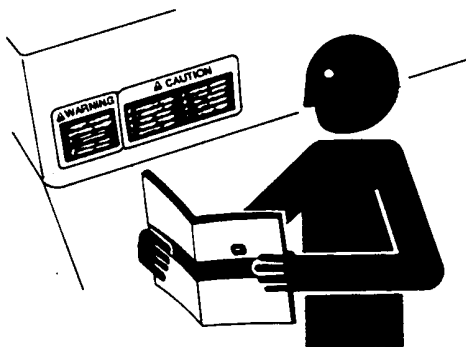


SSE82514A—19—10MAY18

Decal C

OOU6075,0004B84-19-30APR19

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

Transporting

Transporting on Trailer



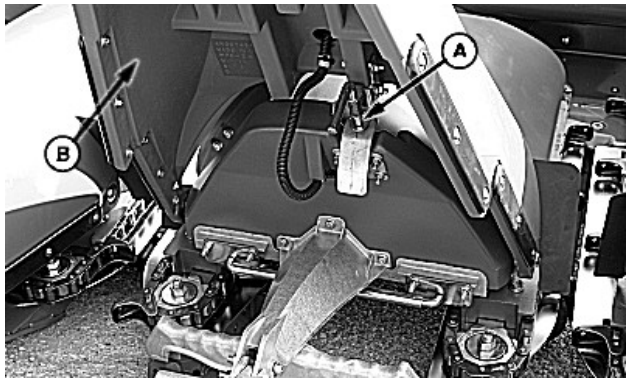
H120733—UN—14FEB17

CAUTION: Follow local regulations regarding width, lighting, and marking.

IMPORTANT: Whenever possible avoid transporting combine with header attached. If possible, transport header on a truck or header trailer.

Follow trailer manufacturer recommendations regarding safe transport procedures. In absence of such instructions, follow these guidelines:

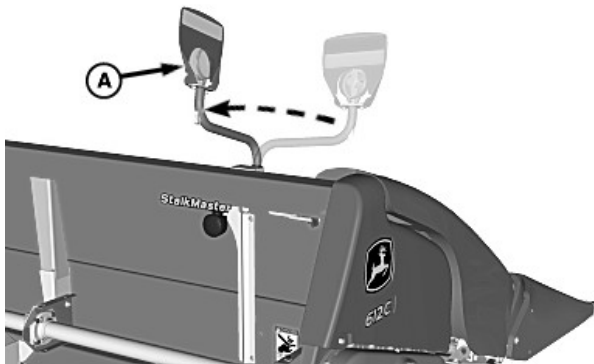
- Do not transport at speeds greater than 32 km/h (20 mph) on a trailer not equipped with brakes, and 40 km/h (25 mph) on a trailer equipped with brakes.
- Always attach a properly sized safety tow chain.
- Always verify a slow moving vehicle (SMV) sign is mounted to rear of trailer or header.
- Always verify rear of trailer is equipped with red reflectors, two red taillights and turn signals.
- To reduce transport width, points should be in folded (upwards) position.



H88847—UN—24JUL07

A—Latch
B—Point

1. Raise each inner gatherer point (B) until latch (A) engages.



H94376—UN—26JUN09

A—Warning Light

2. Rotate header warning lights (A) rearward.



H89293—UN—14JAN09

A—Latch

3. Raise both outer gatherer points until latch pin (A) engages.

OUO6041,0000B2F-19-19JUN17

Transporting on Combine



H121090—UN—15MAR17
Header Raise/Lower
Switch (Style A)



H116348—UN—19DEC16
Header Raise/Lower
Switch (Style B)

CAUTION: Follow local regulations regarding width, lighting, and marking.

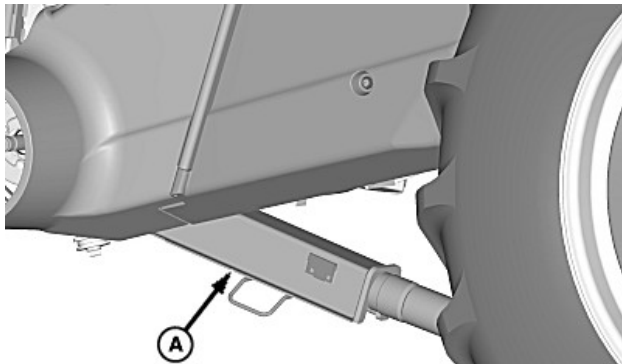
IMPORTANT: Whenever possible avoid transporting on public roadways with header attached.

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

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

Drive at a speed safe for conditions.

1. Completely raise the header with the header raise/lower switch.



H90891—UN—26FEB08

A—Safety Stop

2. Engage feeder house safety stop (A).



H121089—UN—15MAR17
Road Transport
Disconnect (Style A)



H117022—UN—28MAR16
Road Transport
Disconnect (Style B)

3. Engage road transport disconnect switch.

NOTE: Light will be ON when switch is engaged.



H121091—UN—15MAR17
Hazard Lights (Style A)



H117885—UN—29MAR16
Hazard Lights (Style B)

CAUTION: When transporting on a road or highway, flashing warning lights and tail lights on both sides provide a warning to approaching vehicles. Warning lights must be turned ON when driving combine on a public road.

Swing cab ladder fully forward to orient warning light towards oncoming motorists.

Do not operate flashing warning lights if prohibited by law.

4. Turn hazard light switch ON for all road travel.



Switch

H117803—UN—28MAR16



Road Lights

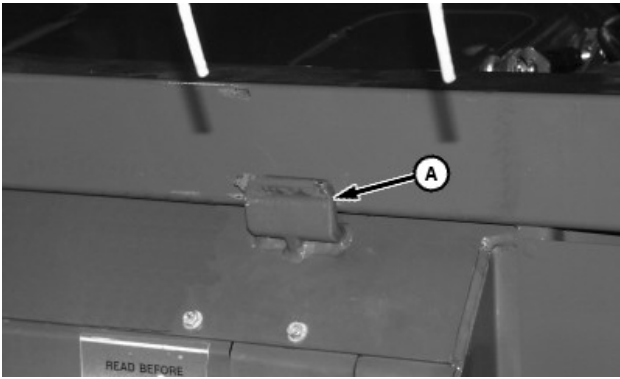
H117808—UN—28MAR16

5. Turn road lights switch ON for nighttime travel. Hazard lights automatically operate when the road lights are ON.

OUC6075.00046B7-19-19JUN17

Attaching and Detaching

Attaching Header to Feeder House

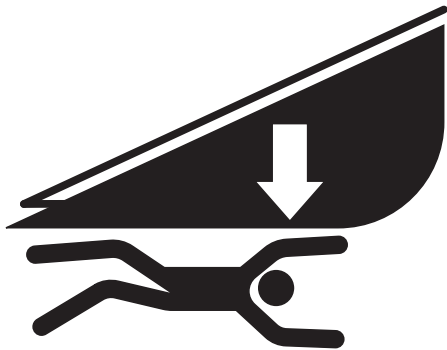


A—Hook (2 used)

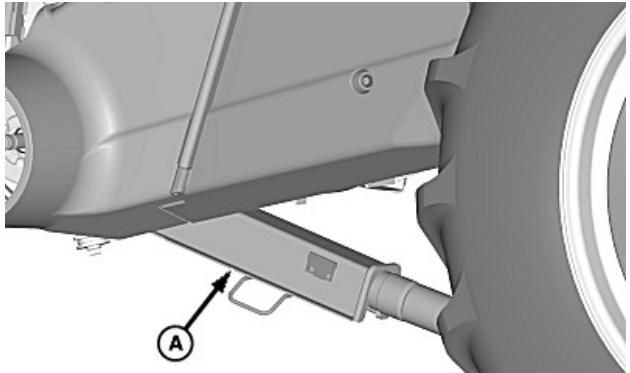
IMPORTANT: See your combine Operator's Manual for specific tires required when operating the header.

Latch pins are not to be actuated with the header on the ground. If multicoupler must be actuated with the header on ground, unhook cable from handle.

1. Sound horn, start engine, and lower feeder house.
2. Slowly drive combine forward until feeder house is centered in frame opening.
3. Verify that hooks (A) on both sides of the feeder house catch the front side of the main frame beam of the header.
4. Completely raise the header and verify that lower latch pins are aligned with latch openings on header.



H121063—UN—14MAR17

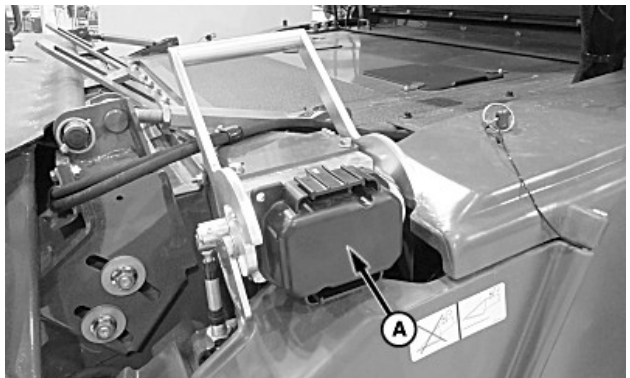


H90891—UN—26FEB08

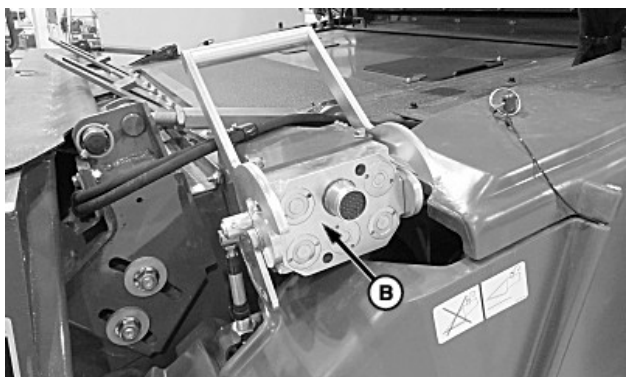
A—Safety Stop

CAUTION: Failure to raise feeder house completely and lower safety stop (A) onto hydraulic cylinder rod may result in serious injury or death.

5. Shut OFF engine, set park brake, and remove key.
6. Lower safety stop (A) onto hydraulic cylinder rod.



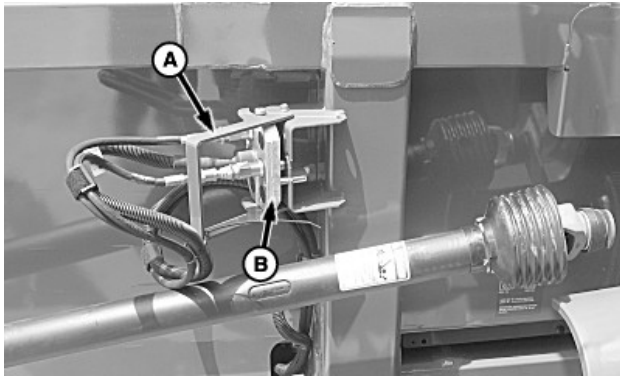
H109779—UN—05FEB14



H109780—UN—05FEB14

A—Cover
B—Multicoupler Face

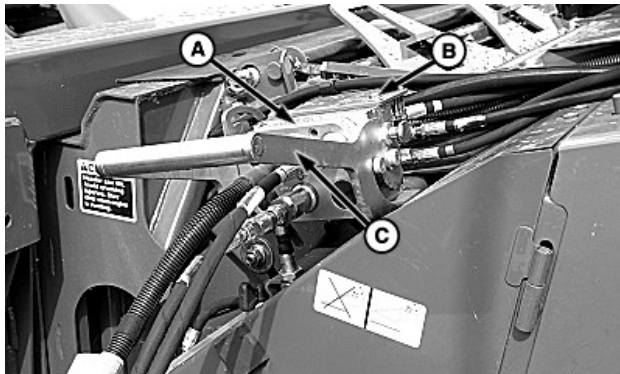
7. Remove cover (A) and clean multicoupler face (B).



H99084—UN—17NOV10

A—Handle
B—Multicoupler

8. Open handle (A) and remove the multicoupler (B) from the storage bracket.



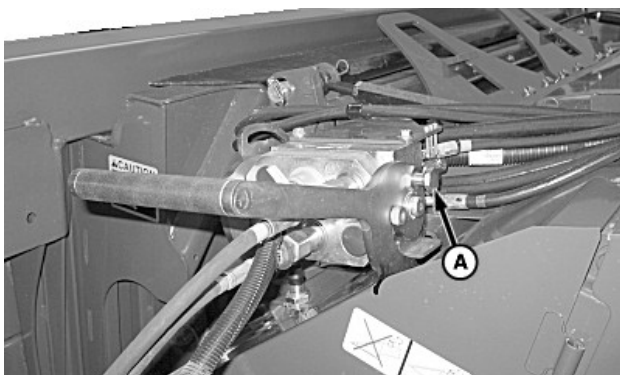
H89284—UN—20JUL07

A—Multicoupler
B—Receptacle
C—Handle

IMPORTANT: To prevent damage to the latching cable, do not actuate latching pins with header on ground. Attempting to actuate may also cause screws on handle to shear.

NOTE: If screw shears, see Shear Screw Location in Combine Operator's Manual for further information.

9. Install multicoupler (A) onto receptacle (B) and close handle (C).

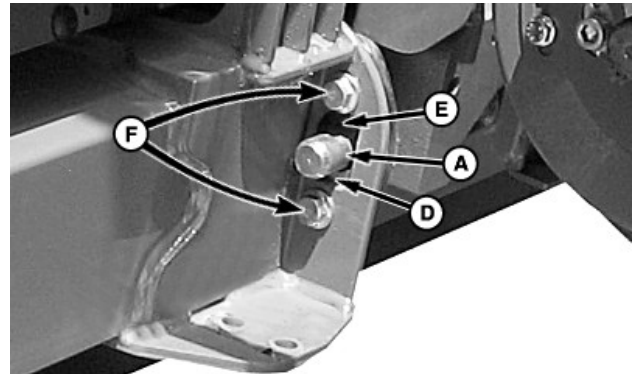


H87894—UN—19APR07

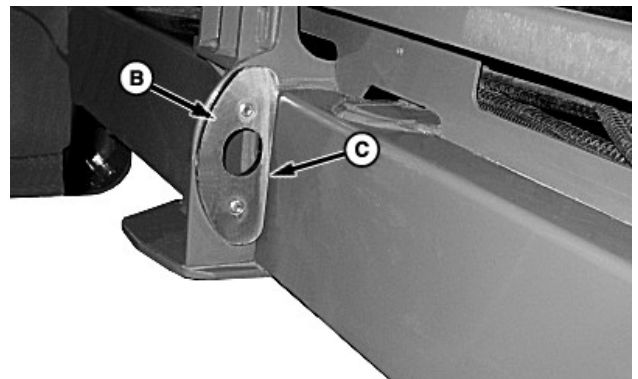
A—Button Lock

IMPORTANT: Failure to close the multicoupler fully so button lock can engage could result in the header falling off while harvesting or transporting.

10. When the multicoupler handle is fully closed, button lock (A) automatically locks the couplers together.



H100720—UN—17MAR11



H100709—UN—17MAR11

A—Latch Pin
B—Latching Plate
C—Frame
D—Lower Gap
E—Upper Gap
F—Cap Screws

NOTE: With header attached, latch pins must move freely through latch plate holes. If latch pins do not extend through latch plates, make sure that latching plates on header are properly adjusted.

11. Latch pins (A) should move freely through latch plate holes in header when the multicoupler is latched. Latch plate (B) must make contact with the frame (C). Less clearance should be maintained between bottom of plate and pin (D) rather than top of plate and pin (E). This may require the latch plate to be flipped.

If adjustment is needed: Remove cap screws (F), flip plate (B) end for end and reinstall.

12. Tighten cap screws to specification.

Specification

Cap Screws—Torque. 130 N·m
(96 lb·ft)

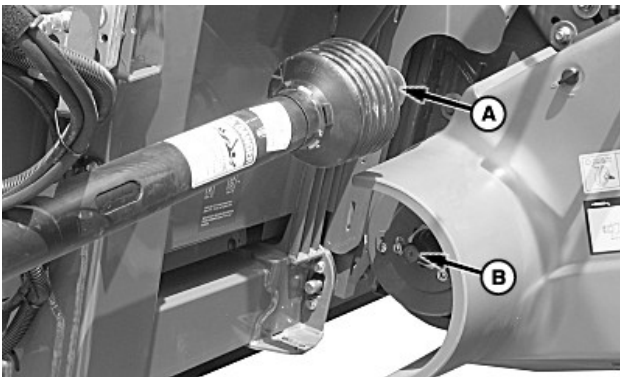


H89283—UN—14JAN09

Storage Position

A—Cover

13. Install multicoupler cover (A) on header storage position.



H99085—UN—17NOV10

A—Telescoping Driveshaft
B—Feeder House Shaft

14. Remove telescoping driveshaft (A) from storage position and connect to the feeder house shaft (B). Verify that the quick-attach collar fully locks. If header uses dual driveshafts, repeat on the opposite side.

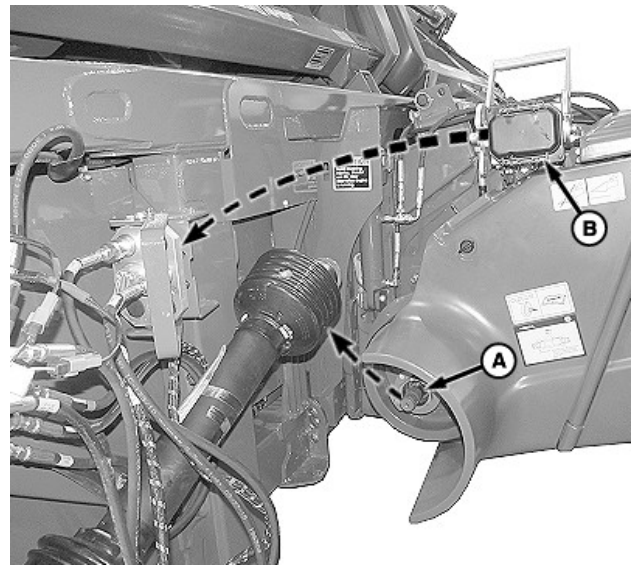
OUO6075,00046B8-19-19JUN17

Attaching Header to Forage Harvester or Corn Husker

For attaching or detaching header on a forage harvester or a corn husker, refer to the Operator's Manual for that machine.

AZ06166,0000248-19-19JUN17

Detaching Header from Feeder House



H114755—UN—10FEB16

A—Feeder House Shaft
B—Multicoupler Connection

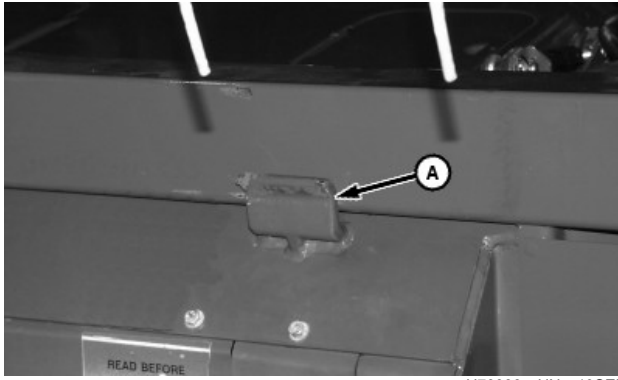
CAUTION: Do not leave driveshafts connected to combine. Personal injury or machine damage occurs if feeder house is accidentally engaged.

1. Disconnect telescoping driveshaft from the feeder house shaft (A) and place on the storage bracket. If header uses dual driveshafts, repeat on the opposite side.

IMPORTANT: Do not actuate latch pins with the header on the ground. If multicoupler must be actuated with the header on ground, unhook cable from handle.

NOTE: Latch pins fully retract when the handle is all the way up against the stop. Adjust cable mounting if latch pins are not fully retracted (see Single Point Latching—Adjusting in the Combine Operator's Manual).

2. Remove multicoupler cover from storage position on header.
3. Raise handle and remove the multicoupler from the feeder house connection point (B).
4. Place multicoupler in storage position on header and lock in place using handle.
5. Place cover on the feeder house connection point and lock handle.



H70033—UN—19SEP01

A—Hook (2 used)

6. Sound horn, start engine, lower feeder house until hooks (A) are below the top frame of the header, and slowly drive combine rearward.

AZ06166,00001B1-19-19JUN17

Calibration and Settings

When to Calibrate

NOTE: All Calibration: See calibrations for your Header in your Combine Operator's Manual.

Calibration procedures must be performed before first use or if header height control sensor, deck plate position sensor or associated components are replaced.

- Header Calibration
- Lateral Tilt Angle Sensor Calibration (if equipped)
- Hydraulic Adjustable Deck Plate (if equipped)
- Active Float Calibration

NOTE: Conditions causing errors must be corrected before continuing calibration.

If any errors occur during calibration procedures, error codes are displayed at:

- CommandCenter™ display

OUC6075,00046BB-19-28MAR17

Calibration Error Codes

IMPORTANT: The condition or conditions causing the error code must be corrected before the calibration procedure can continue.

If any error codes occur during the calibration procedures, call your John Deere dealer with the error code number.

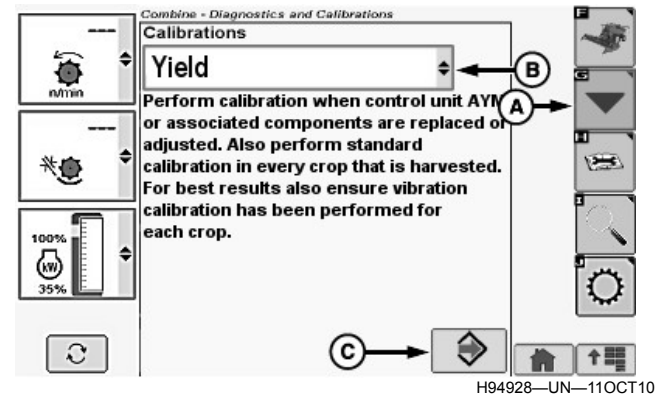
AZ06166,00001B2-19-24APR17

User Calibration Procedures



Diagnostic Icon

H94478—UN—31MAR10



A—Calibration Icon
B—Calibration Menu
C—Enter/Accept Icon

NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Calibrations Application Help or Operator's Station Help for further information.

Calibrations are performed using instructions shown on screen. Operator selects the diagnostics menu, selects desired calibration, and follows instructions given.

1. Highlight diagnostic icon and press the confirm switch.
2. Highlight calibration icon (A) and press the confirm switch.
3. Highlight calibration menu (B) and press the confirm switch.
4. Rotate selection dial until desired calibration is highlighted. Press the confirm switch.
5. Highlight Enter/Accept icon (C) and press confirm switch.
6. Follow instructions shown on the screen to perform desired calibration.
7. Repeat procedure as necessary for additional calibrations.

OUC6075,00046BC-19-23MAR17

Adjusting Feeder House Drop Rate and Sensitivity



A—Feeder House Rate/Sensitivity Adjust Switch
B—Selection Dial

NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Header Application Help or Operator's Station Help for further information.

Height Sensing and Active Header Float Pressure Sensitivity (Automatic Functions):

Controls the response rate for header movements when operating in automatic sensing and automatic float modes.

Changing rate for automatic functions:

1. Verify that road transport disconnect switch is in field mode.
2. Press feeder house rate/sensitivity adjust switch (A) **twice** to adjust settings. Settings are adjusted between 0 to 100.

NOTE: Sensitivity setting is shown on armrest display when adjusting.

3. Turn selection dial (B) clockwise to increase response rate or counterclockwise to decrease response rate.



A—Feeder House Rate/Sensitivity Adjust Switch
B—Selection Dial

Manual Raise/Lower Speed (Manual Functions):

Controls the response rate of header raise/lower functions during manual control and during automatic height resume mode.

Changing rate for manual functions:

1. Verify that road transport disconnect switch is in field mode.
2. Press feeder house rate/sensitivity adjust switch (A) **once** to adjust settings. Settings are adjusted between 0 to 100.

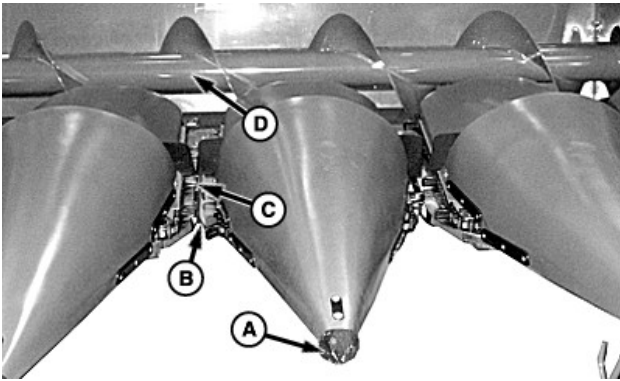
NOTE: Sensitivity setting is shown on armrest display when adjusting.

3. Turn selection dial (B) clockwise to increase response rate or counterclockwise to decrease response rate.

OUO6075,00046BD-19-19JUN17

Operating the Corn Head

General Information



- A—Gatherer Point
B—Stalk Rolls
C—Gatherer Chain
D—Auger

H89415—UN—01AUG07

The gatherer points (A) are positioned between the rows of corn. Stalk rolls (B) grab the corn stalks and pull them rapidly down through the row unit.

When an ear of corn reaches the deck plates, the ear is prevented from going through due to the narrow opening. As the stalk rolls continue to pull on the stalk, the ear of corn is snapped off.

Gatherer chains (C) catch the ears and carry them to the auger (D) which delivers the ears to the combine feeder house.

KR43067,0000743-19-23NOV10

Drive and Operate Carefully

Drive carefully so the corn head will stay on the rows. Never force the corn head or combine to the point of overloading. Overloading can cause breakdowns. Start out in a lower gear and increase speed until you find the proper ground speed at which to operate.

Listen for slipping clutches or other unusual noises. If the corn head becomes plugged, clean it out by keeping engine at operating speed, but decrease ground speed until header has been cleared.

CAUTION: Familiarize yourself with the combine and corn head Operators Manuals.

IMPORTANT: The forward movement of the combine must be approximately the same as the rearward movement of the gathering chain flights or plugging can result.

KR43067,0000744-19-23NOV10

Corn Head Speed of Travel

Forward combine travel must be close to the same speed as rearward movement of gathering chain flights.

If ground speed is too fast, gathering chains will push stalks forward and knock off ears. If ground speed is too slow, gathering chains will jerk stalks back into the corn head, possibly shearing off stalks or knocking off ears.

KR43067,0000745-19-23NOV10

Armrest Functions



H111118—UN—16APR14

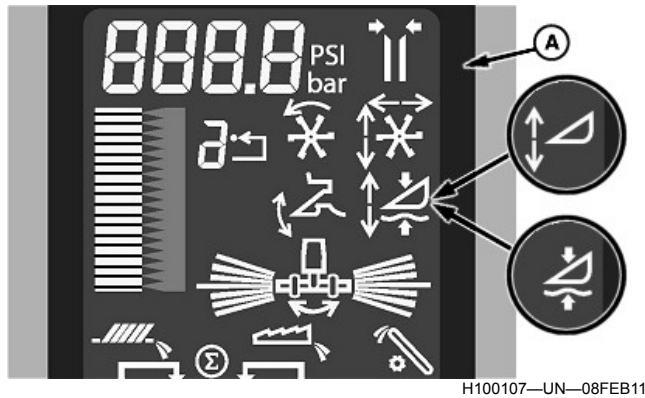
- A—Header Engage and Feeder House Reverser Switch
B—Separator Engage Switch
C—Header Height/HydraFlex™ Pressure Control Dial
D—Draper Belt Speed Adjust Switch
E—Cutterbar Pressure Adjust Switch
F—Road Transport Disconnect Switch
G—Feeder House Rate/Sensitivity Adjust Switch
H—Cutterbar Tilt Adjust Switch (Rigid Draper ONLY)
I—Selection Dial (Operating Adjustments and Controls)
J—Reel Speed or Belt Pickup Speed Dial
K—Side Belt Speed Reduction Switch (Rigid and Flex Drapers ONLY)

NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Combine Overview Application Help or Operator's Station Help for further information.

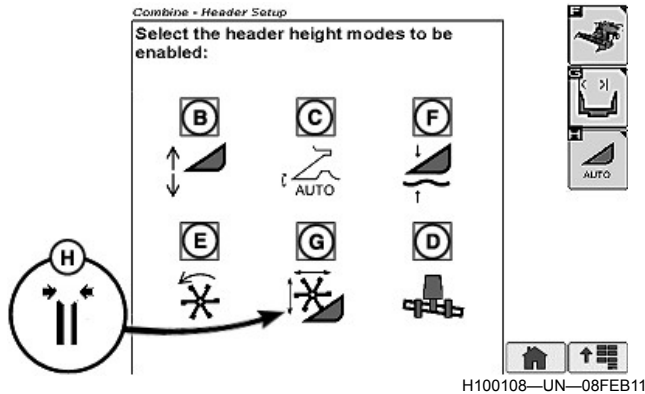
CommandCenter™ Armrest header functions: For complete information on each function, see the combine Operator's Manual.

OJ06075,00046BE-19-24APR17

Active Header Control Display—Features



H100107—UN—08FEB11



H100108—UN—08FEB11

NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Header Application Help or Operator's Station Help for further information.

For complete information on each function, refer to your combine Operator's Manual.

Active Header Control Display (A): Allows operator to recognize which function is active by highlighting appropriate icon on display.

NOTE: Control button locations may be different depending on combine model and installed equipment.

IMPORTANT: Performing any header calibration may automatically enable all six header modes discussed in this section.

Header Height Sensing Button (B): Allows operator to select the position of header relative to the ground and maintain that position automatically.

Header Height Sensing Button — HydraFlex™/HydraFloat™ (B): Allows operator to adjust the cutterbar ground pressure, or weight of the cutterbar, and return to that setting automatically. HydraFlex™/HydraFloat™ works in conjunction with header height

sensing to maintain a header position relative to the ground, follow the ground contour, and return to that position automatically.

Header Height Resume Button (C): Allows operator to select the position of the feeder house relative to the machine and return to that position automatically.

Lateral Tilt Button (D): Allows operator to maintain header position relative to the ground. Sensors are used to determine the height at each end of the header. Header is tilted at the feeder house to equalize distance to the ground at each end. If equipped with Header Height Sensing—HydraFlex™ (optional), the two systems work together to maintain the closest position of cutterbar relative to the ground.

Dial-A-Speed™ Button (E): Allows operator to select an automatic operating speed for reel or belt pickup belts. Operating speed is a ratio of machine ground speed to reel/belt speed.

Feeder House Float Button (F): Allows a rigid header to be operated in contact with the ground and maintain a set contact pressure. Operator selects how firmly the header contacts ground and returns to that pressure automatically.

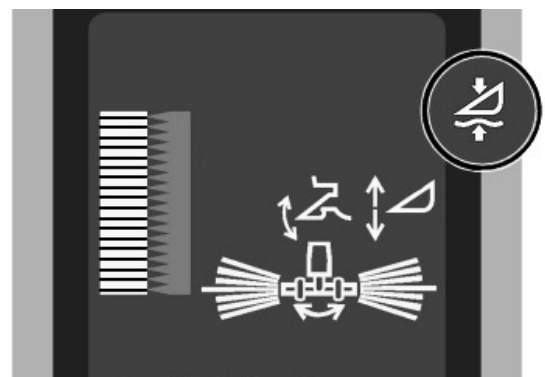
NOTE: Feeder House Float mode is not recommended with HydraFlex™ auger or 700 series draper platforms, as excessive wear of the poly skid shoes may occur.

Reel Position Resume Button (G): Allows operator to select the height and fore/aft position of reel and return to that position automatically.

Deck Plate Position Resume (H): Allows operator to select the opening width of the adjustable deck plates (if equipped) and return to that position automatically.

AZ06166,00001B3-19-24APR17

Description of Automatic Header Height Control Systems



H100084—UN—08FEB11

CommandCenter is a trademark of Deere & Company
HydraFlex is a trademark of Deere & Company
HydraFloat is a trademark of Deere & Company

NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Header Application Help or Operator's Station Help for further information.

Automatic Header Height Control systems compensate for uneven ground and controls horizontal and vertical position of the header. The system continuously compares the preset position and the actual position, thus keeping the header in the desired working position. Values are entered by the response rate adjust and sensitivity adjust along with the selection dial on armrest.

System Requirements:

- Road transport disconnect switch must be in field position.
- Engine is running.
- Header engaged.
- Desired header control mode activated.

Lateral Tilt Adjustment—Two Modes

- Manual Adjust — hydraulic components are directly activated by multi-function lever.
- Automatic Adjust — parallel adjustments of the header in relation to the ground are carried out by sensors on each end of header. This ensures that the distance between the header and the ground is equal on both the left-hand and right-hand sides.

Header Height Adjustment—Four Modes

- Manual Adjust — hydraulic components are directly activated by multi-function lever.
- Automatic Height Resume — header can be set to any position within the feeder house range.
- Automatic Height Sensing — height of the header is maintained with height sensors attached to the header. This ensures that header height is always constant over rough terrain.
- Automatic Float Control — machine maintains a constant header pressure with ground contact.

IMPORTANT: Manually adjusting tilt and height settings deactivate any automatic functions.

AZ06166,00001B4-19-19JUN17

Header Engage/Disengage Drive



- A—Road Transport Disconnect Switch
- B—Separator Switch
- C—Header Switch

NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Header Application Help or Operator's Station Help for further information.

Operator must be in the operator seat before engaging the separator and header switches.

To engage the header.

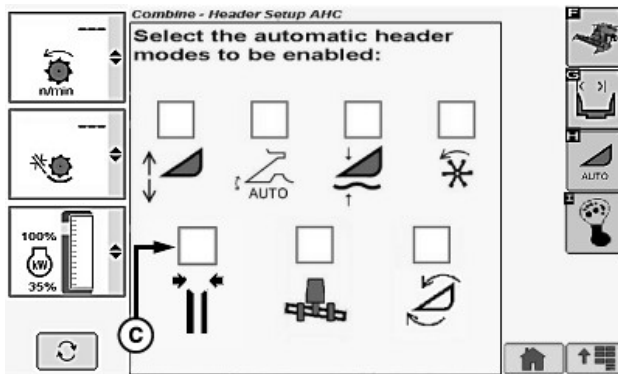
- Switch road transport disconnect switch (A) to field position.
- Engage separator switch (B).
- Engage header switch (C).

AZ06166,00001B5-19-19JUN17

Deck Plate Control and Resume



H121150—UN—28MAR17



H121151—UN—28MAR17

- A—Reel Position Switch
- B—Road Transport Disconnect Switch
- C—Deck Plate Activation Icon
- D—Reel Forward Switch
- E—Reel Aft Switch

NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Header Application Help or Operator's Station Help for further information.

Reel position switch on the multi-function lever (A) allows operator to increase and decrease opening of the adjustable deck plates.

System is active when:

- Engine is running.
- Road transport disconnect switch (B) is in field position.
- Header is engaged.
- Deck plate adjust is activated on the display screen (C).

CommandCenter is a trademark of Deere & Company

Setting Deck Plate Opening:

1. Press left-hand side of reel position switch (D) to increase deck plate opening.
2. Press right-hand side of reel position switch (E) to decrease deck plate opening.

NOTE: Deck plate position icon and deck plate opening value appears on CommandCenter display.

Deck plates have a range of 0 (minimum opening) to 9 (maximum opening).

Deck Plate Resume:

1. Manually set desired deck plate opening.
2. Press and hold activation button 1, 2, or 3 on multi-function lever for three seconds to memorize current deck plate position. Operator can now return to preset position anytime by pressing assigned activation button.

OUC6075,00046C2-19-28MAR17

Combines With Fixed-Speed Feeder House

Refer to ADJUSTMENTS — CORN HEAD section for changing header speed on fixed speed feeder house combine.

KR43067,0000749-19-01DEC10

Harvesting Corn With Weakened or Broken Stalks

Stalks and ears can be weakened by disease (stalk rot) or insects (corn borers), causing them to break off near the ground when contacted by corn head gatherer points and shields. This material is pushed into piles that prevent stalks from contacting the stalk rolls. Crop is lost and harvesting productivity is reduced when this occurs.

The following is a list of possible solutions to these problems:

- Reduce combine ground speed.
- Increase corn head speed with the variable speed feeder house.
- Adjust deck plates as wide as possible without allowing ears to contact the stalk rolls.
- Remove ear savers.

KR43067,0000969-19-24OCT11

Harvesting Popcorn

- Adjust deck plates as close as possible.
- Raise cross auger so largest diameter ear passes between flighting and floor without contact.
- Decrease header backshaft speed.

- Check combine Operators Manual for correct settings.

KR43067,0000753-19-01DEC10

Gatherers



H89417—UN—01AUG07

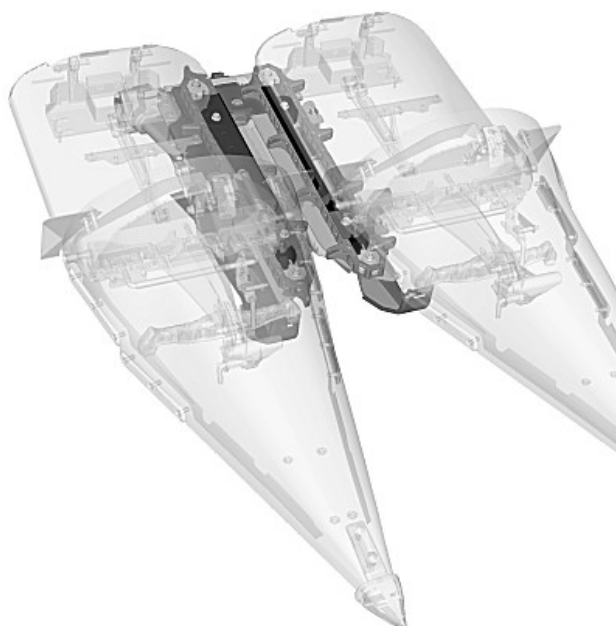
For most conditions, operate front of gatherer points just touching the ground.

In muddy conditions, or in snow, raise header high enough to prevent scooping material into throat opening.

Adjust all points level with one another.

JK22594,0000242-19-13AUG07

Row Units



H99154—UN—22NOV10

An individual row unit houses a pair of trash knives, gathering chains, deck plates, and stalk rolls. Ears of corn are snapped from the stalk and conveyed to the auger by the row unit.

KR43067,00005BA-19-01DEC10

Auger



H89295—UN—20JUL07

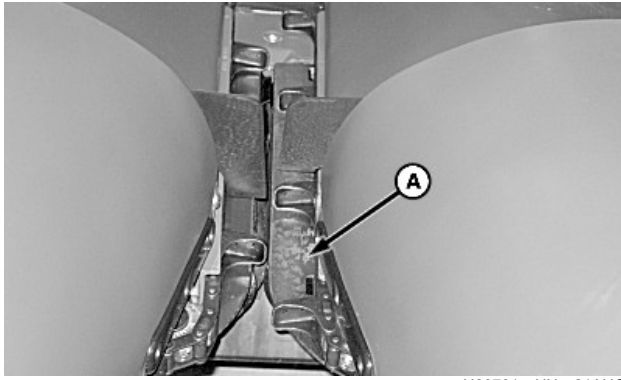
A—Auger

Auger (A) conveys crop material from the row units and directs crop material into the feeder house.

OUC6043,0001C88-19-03JAN08

Hydraulic Adjustable Deck Plates

NOTE: To adjust or calibrate your deck plates, see your combine Operator's Manual.



H89701—UN—21AUG07

A—Deck Plate

Hydraulic adjustable deck plates (A) allow operator to adjust deck plates from within cab for varying stalk and ear size.

Deck plates can only be moved when engine is running and road transport disconnect switch is in field position.

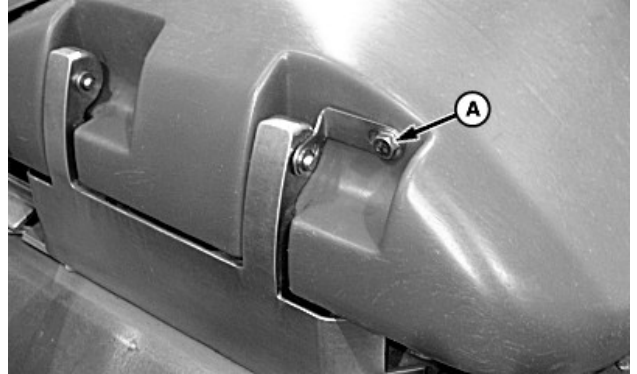
Pressing reel forward switch opens deck plates and pressing reel aft switch closes deck plates.

KR43067,0000360-19-21APR09

NOTE: Extension must be in lowered position to raise outer gatherer point.

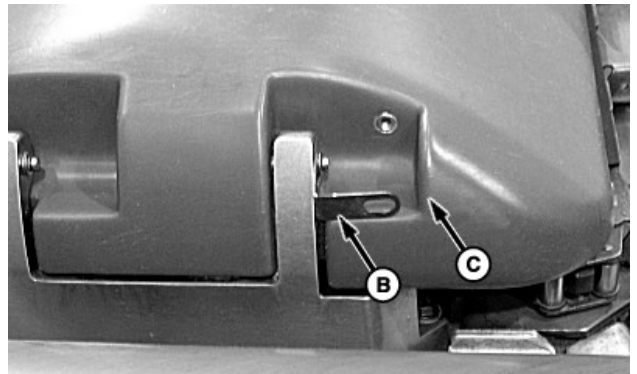
OUC0641,0000B30-19-15FEB17

Raising and Removing Inner Gatherer Points and Shields



H102222—UN—15JUN11

Rear of Inner Shield Shown

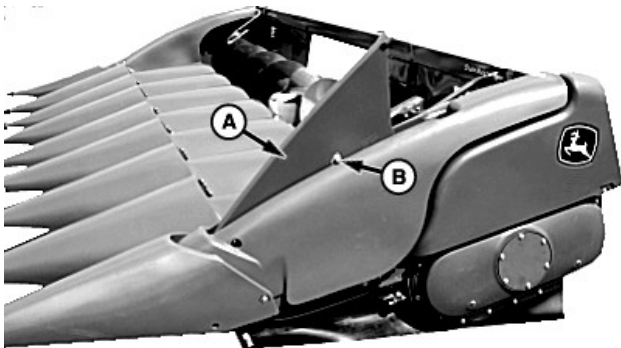


H102223—UN—15JUN11

A—Cap Screw
B—Shield Lock
C—Shield

1. Remove cap screw (A).
2. Rotate shield lock (B) rearward until clear of shield (C).

Outer Gatherer Extensions



H120734—UN—14FEB17

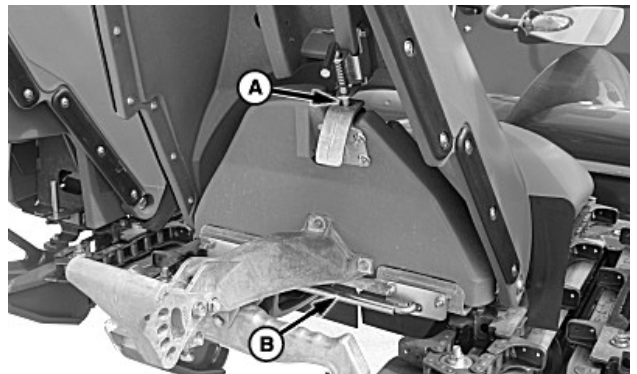
A—Extensions
B—Pin

Outer gatherer extensions (A) prevent ear loss over the sides of low profile gatherer sheets.

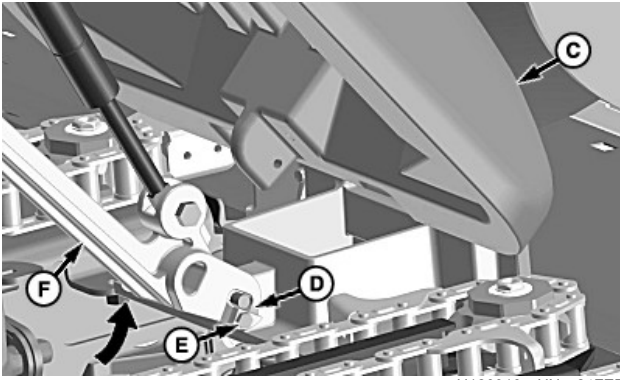
When operating in conditions where the corn stalks are down, lower the extensions for smooth stalk gathering action.

Extensions are incorporated into the outer fenders and can be raised and lowered as needed.

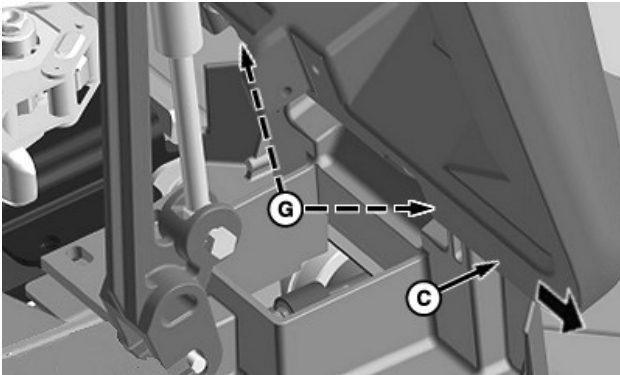
- Raise extension by pulling extension upwards until pin (B) locks in place.
- To lower extension; push pin (B) in, and lower extension.



H99087—UN—17NOV10



H120916—UN—24FEB17



H120811—UN—14FEB17

- A—Pin
- B—Latch Bar
- C—Gatherer Shield
- D—Rear of Slotted Hole
- E—Locking Cap Screw
- F—Cylinder Mount
- G—Support Pin (2 used)

3. Raise point until pin (A) locks in place.

CAUTION: Avoid serious injury when lifting and removing point and shield assembly. Assembly is heavy and awkward to handle.

4. Pull latch bar (B) and lift point and shield assembly together.

5. **IF EQUIPPED:** Disconnect any sensor harness connectors from main wiring harness. To access connectors located inside shield, cut tie bands attached to rear of shield and pull out connectors.

6. *Disconnect lift cylinder:*

- a. Remove locking cap screw (E).
- b. Apply upward pressure to the gatherer shield (C) until retaining pin is at rear of the slotted hole (D).
- c. Lift cylinder mount (F) upwards until mount clears pins.

CAUTION: Use caution when lifting. Assembly is heavy and awkward to handle.

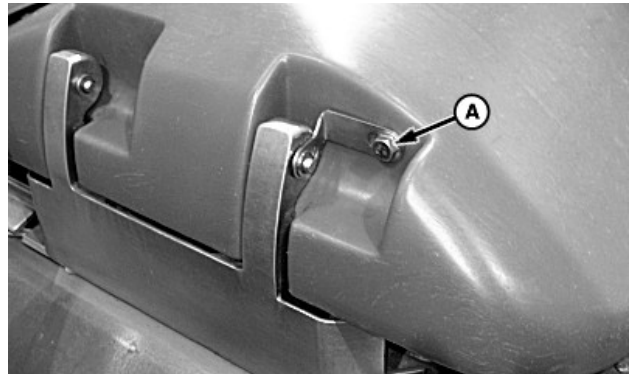
7. Slide gatherer shield (C) sideways until shield is free of support pins (G) and lift shield assembly off mount.

8. Install gatherer shield in reverse order using the following special instructions:

- a. Tighten locking cap screw (E) to specification.

Specification

Locking Cap Screw—Torque. 17 N·m
(150 lb·in)



H102222—UN—15JUN11

A—Cap Screw

IMPORTANT: Do not over tighten cap screw when installing shield lock.

- b. Tighten shield lock cap screw (A) to specification.

Specification

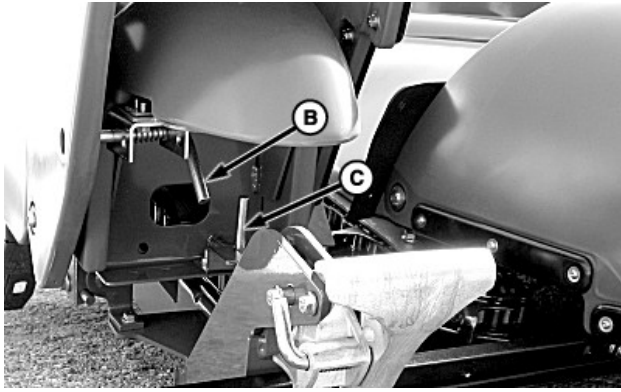
Gatherer Shield Lock Cap
Screw—Torque. 20 N·m
(177 lb·in)

OUC6041,0000B38-19-27FEB17

Raising and Tilting Outer Gatherer Points and Shields



H120812—UN—14FEB17



H88427—UN—23JUL07

A—Locking Latch Pin
B—Latch Pin
C—Latch Pin

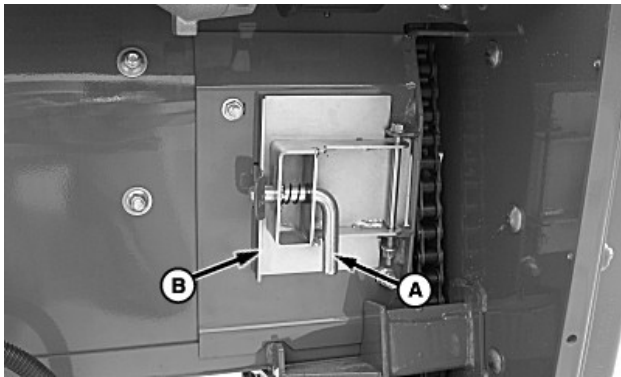
1. Release latch pin (A) and rotate to locked position.
2. Raise outer point until pin (B) locks in place.
3. Release pin (C) and rotate gatherer shield and point outward.

OOU6041,0000B31-19-14FEB17

Auger Floor Cleanout Door

CAUTION: Avoid serious injury.

- Never clean equipment with engine running.
- Engage feeder house safety stop when performing work under corn head.
- Wear proper eye and face protection to protect against falling debris.



H99090—UN—17NOV10

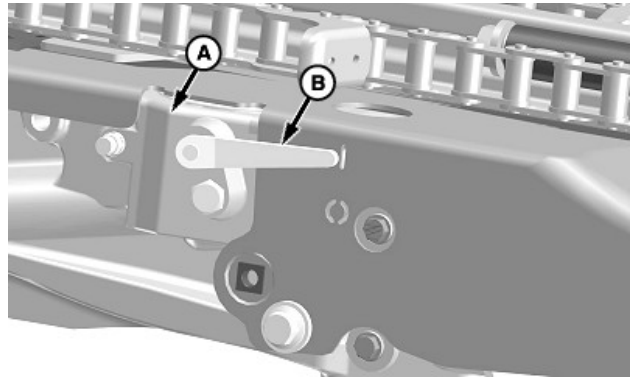
View from Below Corn Head

A—Latch
B—Door

1. Release latch (A) and open door (B).
2. Clean auger floor using clean out door on both sides of corn head.
3. Verify door is fully latched before operating corn head.

KR43067,00005B2-19-18NOV10

Engaging and Disengaging StalkMaster™ Chopping Knives



H120912—UN—23FEB17

A—StalkMaster™ Chopping Gear Case
B—Engage/Disengage Lever

Headers equipped with the StalkMaster™ chopping option can disengage each chopping gear case individually. Disengaging all chopping gear cases allows the operator to use a chopping header as a non-chopping header when desired. Disengaging individual chopping gear cases allows the operator to limit the number of row units that are chopping when different amounts of residue are wanted.

1. Lower header to the ground completely or raise feeder house and engage feeder house safety stop.

CAUTION: Avoid serious injury or death. Do NOT perform this procedure with engine running.

2. Shut OFF engine, set park brake, and remove key.
3. Raise gatherer point and shield (see Raising and Removing Center Gatherer Shields and Points in this section).

NOTE: Engage/disengage lever is mounted on the right-hand side of chopping gear case (A).

4. Rotate lever (B) upwards to engage chopping blades and downwards to disengage.
5. Lower gatherer shield and point.
6. Repeat procedure for each row unit or as necessary.

AZ06166,000012D-19-19JUN17

StalkMaster is a trademark of Deere & Company

Attachments and Options

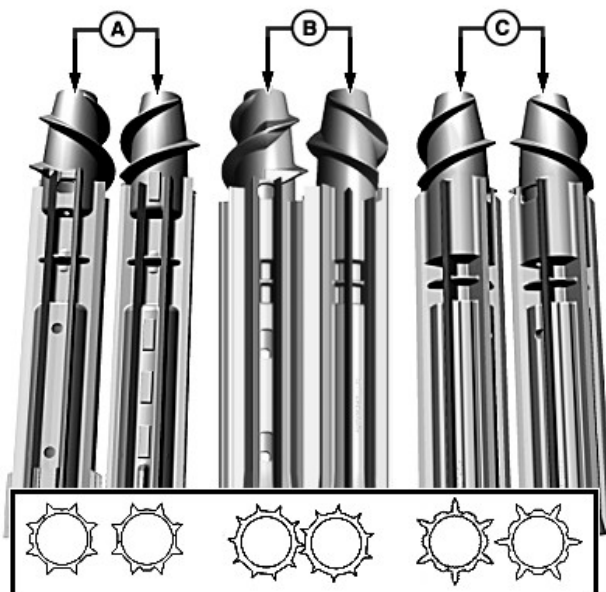
Stalk Roll Details

	Stalk Rolls without StalkMaster™		
	Opposed Stalk Roll	Intermeshing Stalk Roll	Chopping Stalk Roll
Residue Size	Good	Good	Better
Residue Breakdown	Fast	Faster	Fastest
Soil Warm Up/Dry Down	Fast	Faster	Fastest
Wear Life	Better	Better	Best
Row Unit Power Consumption	Best	Better	Better
Fuel Consumption	Best	Better	Good
Trash Intake	Best	Better	Better
Material Other Than Grain (MOG) Dry	Best	Good	Good
Material Other Than Grain (MOG) Wet	Best	Better	Better
Down Corn	Best	Good	Good
Weight (Two Stalk Rolls)	17.2 kg (38.0 lb)	18.1 kg (40.0 lb)	19.5 kg (43.0 lb)
StalkMaster™ with Opposed Stalk Roll			
Residue Size	Best		
Row Unit Power Consumption vs. Opposed without StalkMaster™	Good		
Weight	Additional 19.1 kg (42.0 lb) per row for StalkMaster™ Components		
General Stalk Roll Information			
Number of Knives	8	6	10

StalkMaster is a trademark of Deere & Company

OUC6075.0004AAB-19-18FEB19

Stalk Roll Types



H124151—UN—11MAY18

A—Opposed Stalk Rolls
B—Chopping Stalk Rolls
C—Intermeshing Stalk Rolls

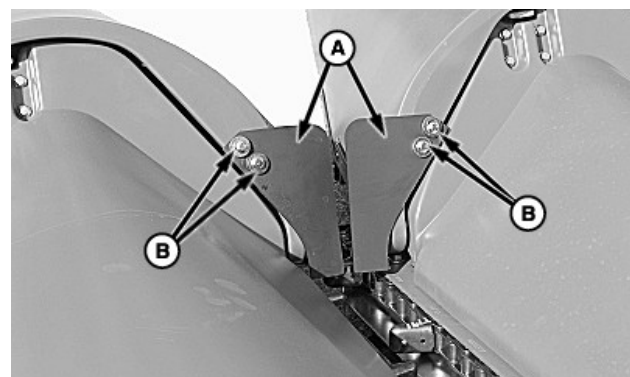
Stalk rolls pull cornstalks down so the ears are snapped off at the stalk and deposited onto the deck plates.

To help you decide which stalk rolls are best suited for your needs, see Stalk Roll Details for further information.

OUC6075.0004AA0-19-08FEB19

Ear Savers

- Ear savers prevent loose ears from sliding over the gatherer chains to the ground.
- In down corn, or if stalks tend to plug up at the gatherer throat opening, remove and retain ear savers and hardware.
- In standing corn, install ear savers to prevent ear loss.



H89201—UN—12JUL07

A—Ear Savers

B—Cap Screws

Replace ear savers as follows:

1. Remove cap screws (B) and ear savers (A).
2. Repeat for remaining rows.
3. Install ear savers in reverse order.

NOTE: When installing ear savers, tighten cap screws to specification.

Specification

Cap Screws—Torque. 25 N·m
(18 lb.-ft.)

KR43067,000055B-19-12MAY10

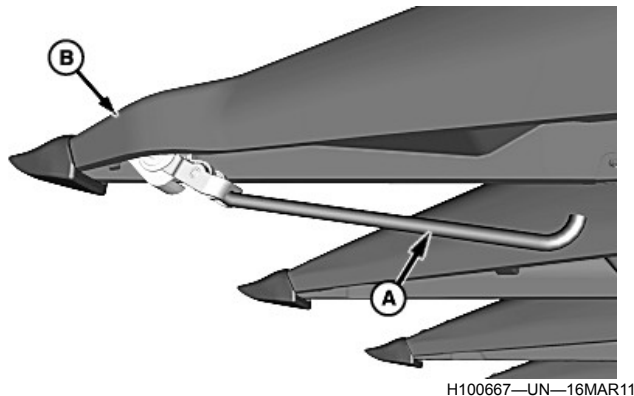
StalkMaster™ chopping gear cases (A) allow one pass cutting and sizing of corn stalks, eliminating the need for additional equipment passes. Operators have the option to disengage one or all of the gear cases, allowing a wide range of flexibility in residue management.

Factory installed cornstalk choppers are available on models 706C-SM, 708C-SM, 712C-SM, 716C-SM, and 718C-SM corn heads.

IMPORTANT: Replacement chopping gear cases purchased through service parts are shipped dry. Gear case **MUST** be filled with oil to the proper level before use (see Lubrication and Maintenance section for specifications).

OUC6041,0000B10-19-24APR17

Active Header Control Ground Sensors

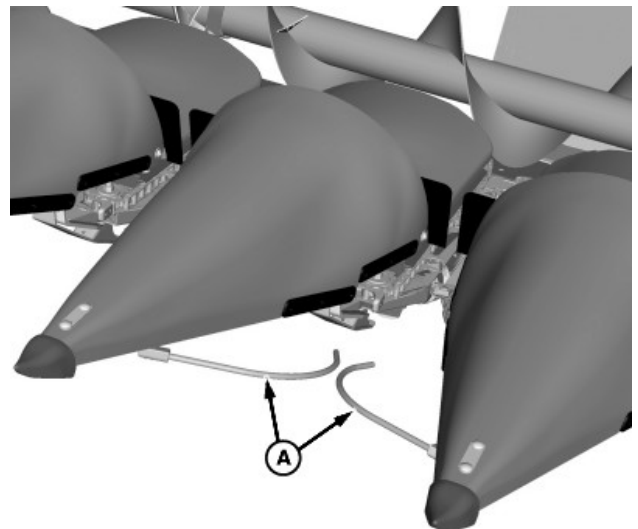


A—Sensor Arm
B—Gatherer Point

Sensor arms (A) are located under the corn head, mounted to the gatherer points (B). The sensor arm follows the contours of the ground, which activates a potentiometer. The signal provided allows the combine to maintain a desired cutting height during harvest.

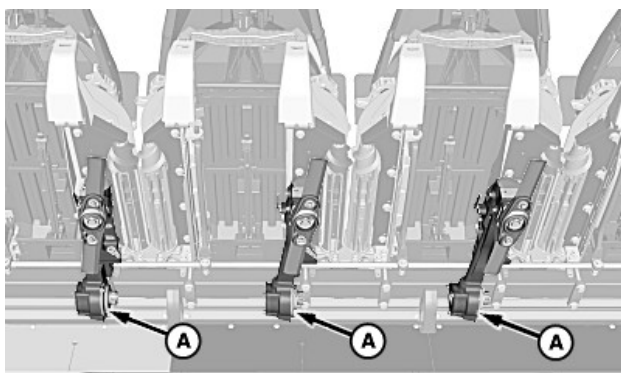
SS43267,00000CB-19-31MAY12

AutoTrac RowSense



H95836—UN—25MAR10

StalkMaster™ Chopping Gear Cases (Optional)



A—StalkMaster™ Chopping Gear Cases

A—Row Sensors

AutoTrac RowSense uses input from sensors mounted on the corn head to assist existing GPS navigation in steering the combine during harvest.

As cornstalks pass through the gatherer points, they push a set of mounted sensor arms (A). The signals from these sensors are used to identify the location of the corn row, and make necessary adjustments to the combine steering to keep it in line with the crop.

NOT an option for 6R36/38, 8R36/38, and 12R36/38

SS43267,000014C-19-11OCT12

StalkMaster is a trademark of Deere & Company

Stubble Lights



H120821—UN—22FEB17

A—Stubble Light

Stubble lights (A) illuminate area directly behind the header so operator can see height of cut during nighttime harvesting.

Stubble light direction can be adjusted for best visibility.

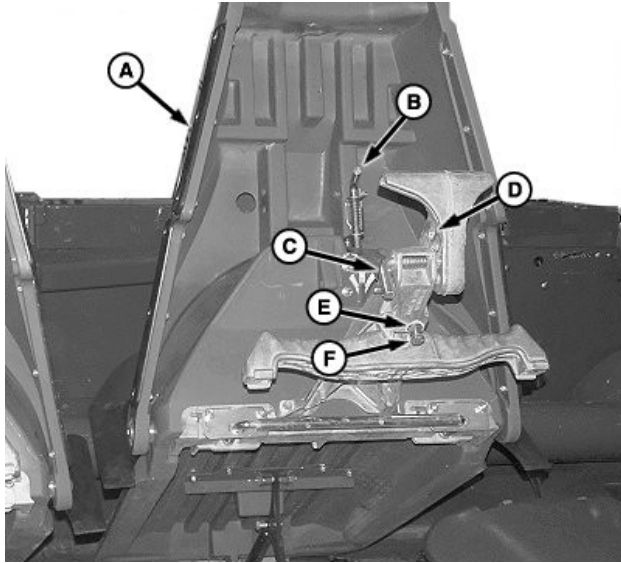
AZ06166,000012E-19-19JUN17

Adjustments—Corn Head

Adjusting and Leveling Gatherer Points

CAUTION: Raise header until points are off the ground. Shut OFF engine, set park brake, and remove key.

Set one gatherer point to an appropriate height. Set remaining points to same height.



H114004—UN—04MAY15

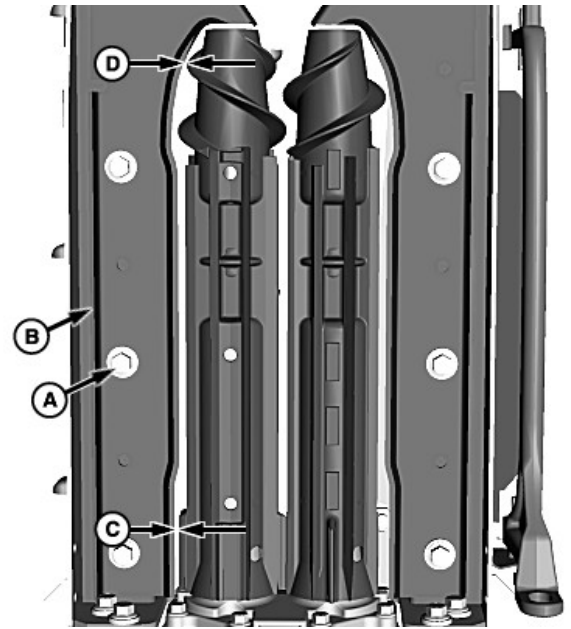
A—Gatherer Point
B—Pin
C—Spring Locking Pin
D—Location Hole
E—Lock Nut
F—Cap Screw

1. Raise the gatherer point (A) until the pin (B) locks into place.
2. Pull the spring locking pin (C) and adjust height using location holes (D).
3. Fine adjustments can be made by loosening lock nut (E) and adjusting cap screw (F) up or down.

AZ06166,00001B7-19-19JUN17

Adjusting Trash Knives

Opposed Knife Stalk Rolls



H125372—UN—20NOV18

Opposed Stalk Rolls

A—Cap Screw (4 used)
B—Trash Knife
C—Gap Location (2 used)
D—Gap Location

1. Loosen cap screws (A).
2. Adjust trash knife (B) to set the gap at locations (C and D) to specification.

Specification

Stalk Roll Fin and Flight to Trash
Knife—Maximum Gap. 1.5 mm
(1/16 in)

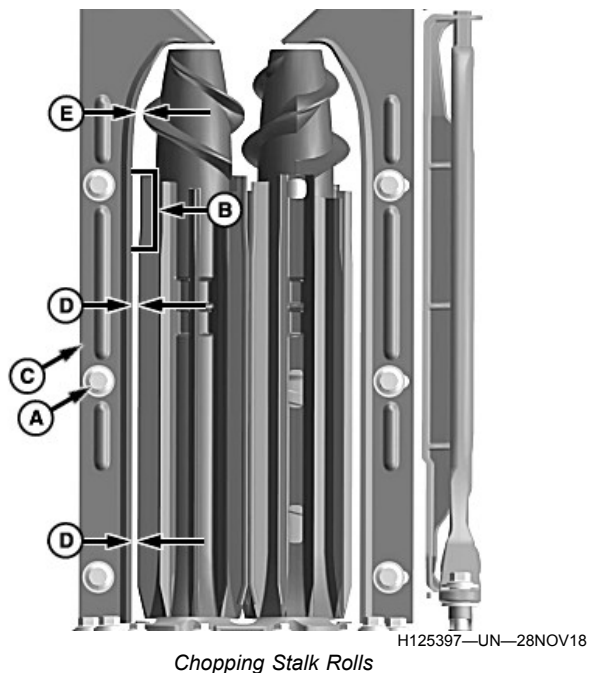
3. Tighten cap screws to specification.

Specification

Cap Screws—Torque. 130 N·m
(96 lb·ft)

4. Manually rotate stalk rolls and verify that no contact exists between stalk roll and knife trash.
5. Repeat procedure on opposite trash knife and for remaining row units.

Chopping and Intermeshing Knife Stalk Rolls



- A—Cap Screw (4 used)
 B—Location
 C—Trash Knife
 D—Gap Location (2 used)
 E—Gap Location

1. Loosen cap screws (A).

IMPORTANT: Do not measure the gap at location (B). Stalk roll fins taper towards the stalk roll flighting at this location.

2. Adjust the trash knife (C) to set the gap at locations (D and E) to specification.

Specification

Stalk Roll Fin and Flight to Trash Knife—Maximum Gap	1.5 mm (1/16 in)
--	---------------------

3. Tighten cap screws to specification.

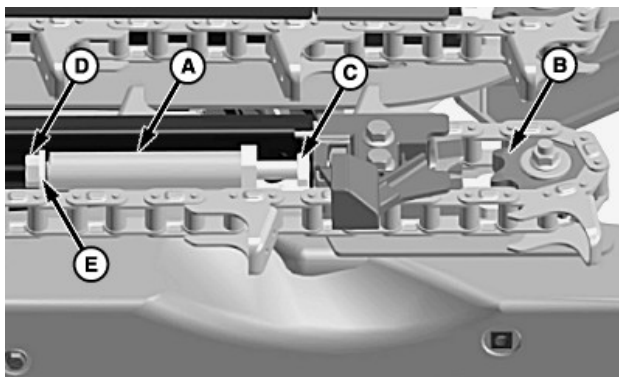
Specification

Cap Screws—Torque.	130 N·m (96 lb·ft)
----------------------------	-----------------------

4. Manually rotate stalk rolls and verify that no contact exists between stalk roll and trash knife.
5. Repeat procedure on opposite trash knife and for remaining row units.

MH69740,0000797-19-13FEB19

Adjusting Gatherer Chain Tension



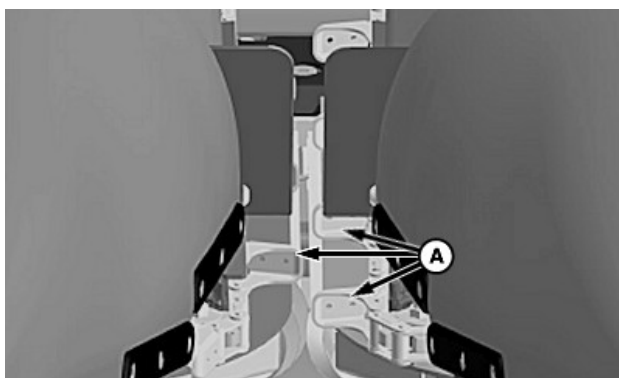
- A—Spacer Tube
 B—Idler Sprocket
 C—Nut
 D—Cap Screw
 E—Washer

Gatherer chain tension is maintained by a spring-loaded tightener. The spring is shielded by a spacer tube (A) that also serves as a stop to prevent the idler sprocket (B) from retracting too far.

- To increase gatherer chain tension, loosen nut (C) and tighten cap screw (D).
- To prevent chain from running off idler sprocket, maintain a 4.8 mm (3/16 in) maximum space between spacer tube (A) and washer (E).

AZ06166,000012F-19-21FEB17

Adjusting Gatherer Chain Flights



- A—Chain Flights

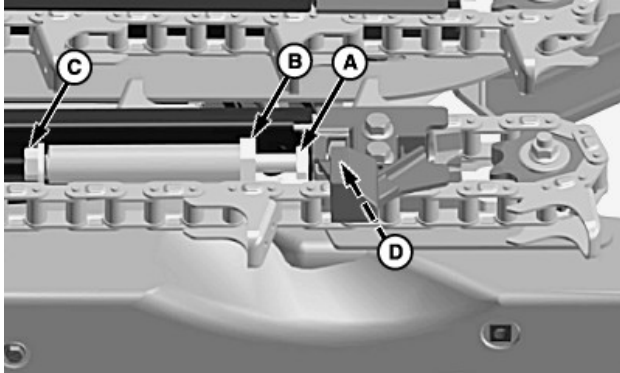
IMPORTANT: Be careful to avoid rocks and other obstructions in the row when running gatherers close to the ground.

Completely raise the header, shut OFF engine, set park brake, remove key, and lower feeder house safety stop.

Gathering chains are assembled at the factory with the chain flights (A) staggered between one another.

If the gatherer chain tensioner range of adjustment has been reached or the chains fails, replace with a new chain. When replacing chain, also replace the drive sprocket and idler sprocket assembly to prevent premature wear of the replacement chain.

1. Open gatherer points and shields as necessary.



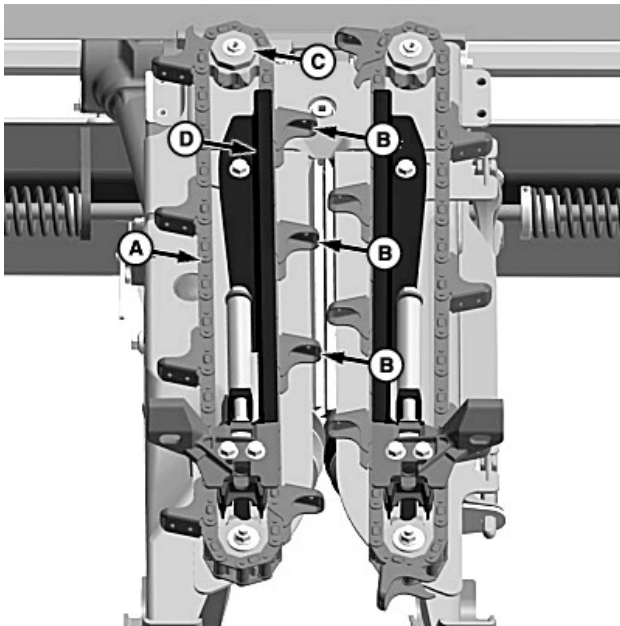
H120817—UN—16FEB17

A—Nut
B—Idler Support Strap
C—Cap Screw
D—Nut

2. Loosen nut (A) until it is close to but not touching the leg of the idler support strap (B).

NOTE: Use a backup wrench on nut (A) to prevent nut from tightening against the idler support strap (B) when loosening cap screw (C).

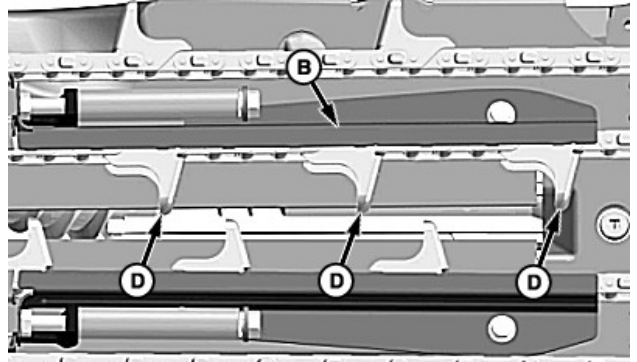
3. Loosen cap screw (C) until nut (D) disengages.



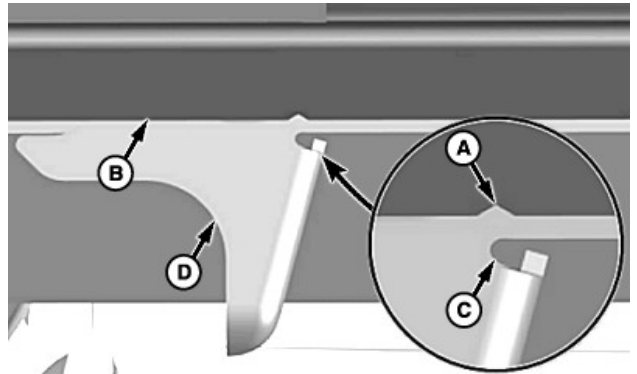
H121352—UN—26APR17

A—Gatherer Chain
B—Flights With the Closest Spacing (3 used)
C—Drive Sprocket
D—Chain Guide

4. On the gatherer chain (A), locate the three flights with the closest spacing (B) between them.
5. Lift gatherer chain off drive sprocket (C) and rotate chain until flights with the closest spacing are next to the guide chain (D).



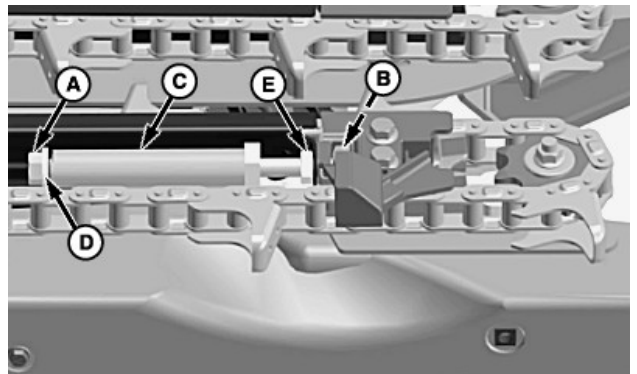
H121340—UN—10MAY17



H121342—UN—10MAY17

A—Notch (3 used)
B—Chain Guide
C—Groove (3 used)
D—Flights With the Closest Spacing (3 used)

6. Adjust gatherer chain so notches (A) in the chain guide (B) are aligned with grooves (C) in flights with the closest spacing (D) as shown.
7. Place gatherer chain back on drive sprocket. Verify that notches and grooves remain aligned.



H121349—UN—25APR17

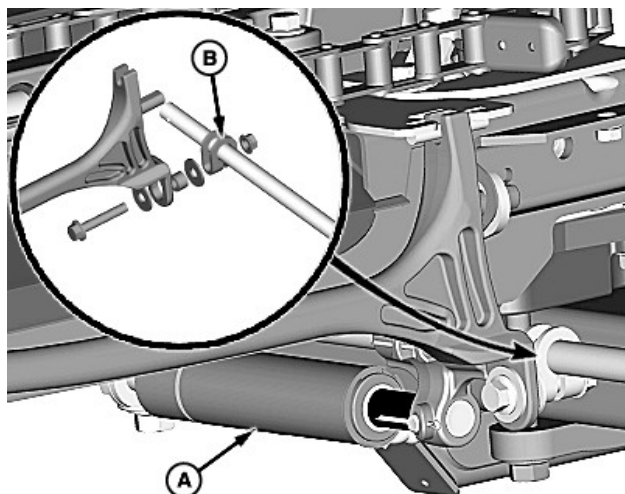
A—Cap Screw
B—Nut
C—Spacer Tube
D—Washer
E—Nut

8. Tighten cap screw (A) into nut (B) until a 4.8 mm (3/16 in) maximum space is set between spacer tube (C) and washer (D).
9. Tighten nut (E) against the idler assembly.

AZ06166,00001BC-19-19JUN17

Adjusting Deck Plates

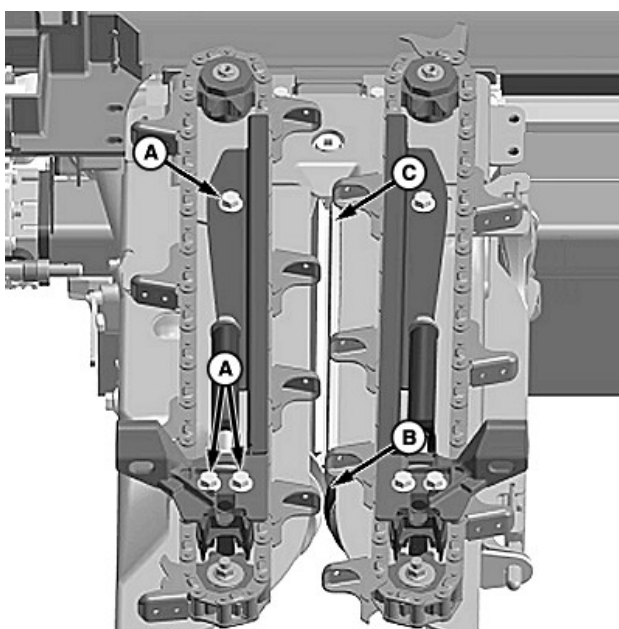
NOTE: Deck plates are set at factory.



A—Cylinder
B—Clamp

H90238—UN—14JAN09

1. Set deck plates to closed position (cylinder (A) fully extended). Verify that left-hand side deck plates are in the closed position. Reset and tighten the clamp (B) if necessary.
2. Clamp (B) closes and crimps tie bar when hardware is tightened. Adjust pivot arms on remaining row units.



H120819—UN—15FEB17

A—Cap Screw (3 used)
B—Front Spacing
C—Rear Spacing

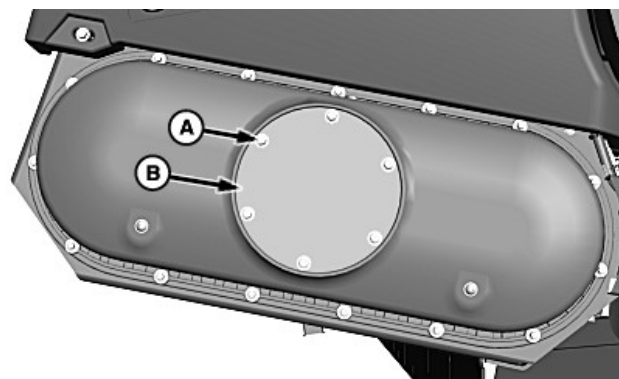
3. Loosen cap screws (A) allowing right-hand deck plate to slide.
4. Set front spacing (B) to 15 mm (5/8 in) and rear spacing (C) to 17 mm (11/16 in).
5. Tighten cap screws to specification.

Specification

Cap Screws—Torque. 95 N·m
(70 lb·ft)

MH69740,0000700-19-07JUN18

Adjusting Row Unit Drive Chain

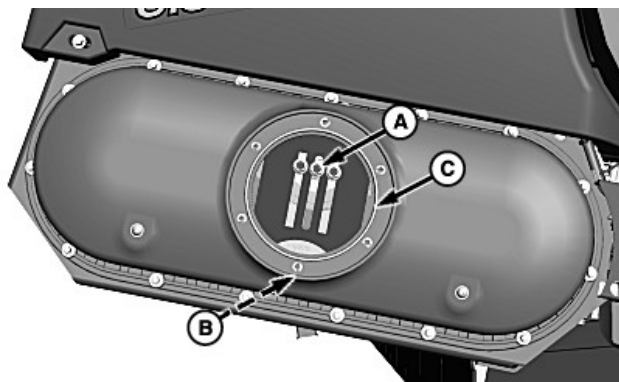


H99229—UN—30NOV10

A—Cap Screws and Washers (6 used)
B—Cover

1. Remove cap screws and washers (A), and cover (B).

NOTE: An overtightened chain will cause undue chain wear. Row unit chain is a continuous chain without a connector link.



H99230—UN—30NOV10

A—Tensioner Hardware
B—Lower Drive Chain
C—Seal

- Loosen tensioner hardware (A).
- Adjust tensioner downward to increase chain tension or upwards to decrease tension. Lower chain strand (B) should have movement of 10 mm (25/64 in.) up and 10 mm (25/64 in.) down. Tighten hardware to specifications.

Specification

Tensioner Cap Screws—Torque. 90 N·m
(66 lb.-ft.)

IMPORTANT: Verify O-ring seal (C) is clean and undamaged before installing cover. Replace as necessary.

- Install cover using cap screws and washers. Tighten cover cap screws to specification.

Specification

Row Unit Drive Chain
Cover—Torque. 17 N·m
(150 lb.-in.)

DM84283,00006F7-19-21MAY15

Adjusting Row Unit Drive Sprockets With Fixed Speed Drive ONLY

Sprocket Pairs for Corn Heads			
Model	Drive Side	Drive Sprocket	Driven Sprocket
6R, non-chopping	Left-hand	30	33
8R36/38 12R, non-chopping	Dual	30	33
8R30	Left-hand	24	27
All chopping corn heads (StalkMaster) 16R, non-chopping 18R, non-chopping	Dual	24	27

IMPORTANT: These sprockets must *NOT* be changed for variable speed combines.

Changing corn head drive sprockets with a variable speed feeder house can result in over-driving the corn head, resulting in machine damage. Front driven shaft should never exceed 715 rpm.

- Drain oil and remove cover pan (see REMOVE AND INSTALL OIL PAN in SERVICE section).
- Loosen tensioning hardware and remove drive chain.
- Remove and install drive sprockets as necessary.
- Install drive chain and adjust tension to proper setting (see ADJUSTING ROW UNIT DRIVE CHAIN in ADJUSTMENTS — CORN HEAD section).
- Install cover pan.
- Add lubrication to proper level (see REMOVE AND INSTALL OIL PAN in SERVICE section).
- For dual drive corn heads, repeat procedure on opposite side.

IMPORTANT: For dual drive corn heads, sprockets *MUST* be same configuration on each end.

COMBINES —

NOTE: Recommended travel speed is based on average field conditions. Your field conditions may differ, requiring different sprocket configuration.

When operating at increased ground speeds, install smaller sprocket on driven shaft and larger sprocket on drive shaft.

Recommended Combine Travel Speed for Sprocket Configuration				
Recom- mended Speed	Non-Chopping Corn Head		Chopping Corn Head	
	Drive Sprocket	Driven Sprocket	Drive Sprocket	Driven Sprocket
7 km/h (4 mph) or Less	30 tooth	33 tooth	24 tooth	27 tooth
Above 7 km/h (4 mph)	33 tooth	30 tooth	27 tooth	24 tooth

FORAGE HARVESTERS —

NOTE: Recommended travel speed is based on average field conditions. Your field conditions may differ, requiring different sprocket configuration.

When operating at increased ground speeds, install smaller sprocket on driven shaft and larger sprocket on drive shaft.

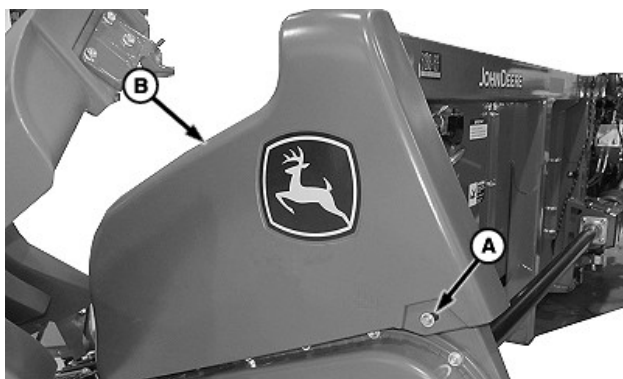
Recommended Forage Harvester Travel Speed for Sprocket Configuration				
	Non-Chopping Corn Head		Chopping Corn Head	
Recommended Speed	Drive Sprocket	Driven Sprocket	Drive Sprocket	Driven Sprocket
5 km/h (3 mph) or Less	30 tooth	33 tooth	24 tooth	27 tooth
Above 5 km/h (3 mph)	33 tooth	30 tooth	27 tooth	24 tooth

CORN HUSKERS —

Recommended Sprocket Configuration for Corn Huskers			
Non-Chopping Corn Head		Chopping Corn Head	
Drive Sprocket	Driven Sprocket	Drive Sprocket	Driven Sprocket
33 tooth	30 tooth	27 tooth	24 tooth

KR43067,00009BF-19-09DEC11

Adjusting Auger Height

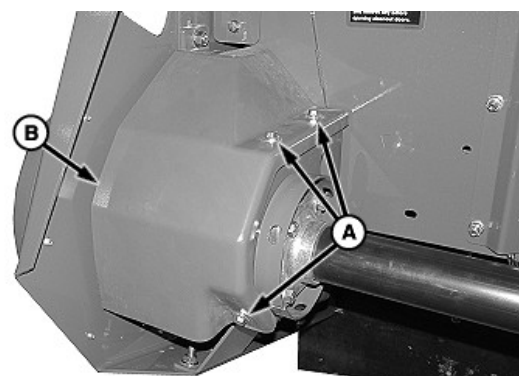


H121804—UN—19JUN17

A—Cap Screw and Washer
B—Side Shield

Auger can be adjusted up and down for clearance between auger flighting and floor.

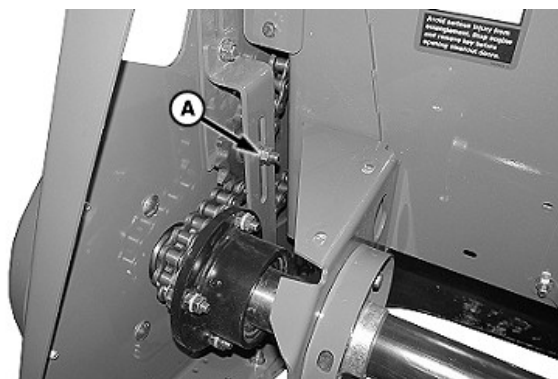
1. Raise and tilt open the outer gatherer points and shields (see Raising and Tilting Outer Gatherer Points and Shields in Operating the Corn Head section of this manual).
2. Remove cap screw and washer (A).
3. Remove side shield (B).



H114855—UN—29JUN15

A—Cap Screw (3 used)
B—Auger Drive Chain Shield

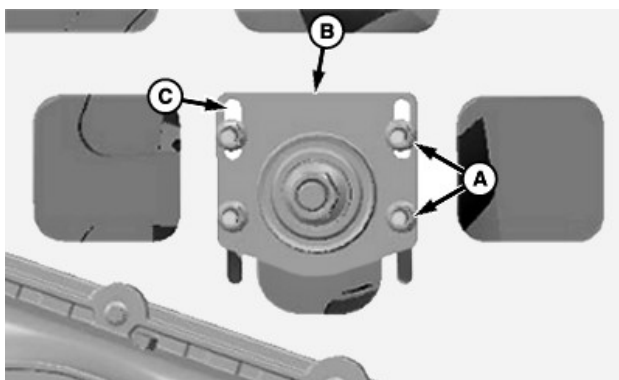
4. Remove cap screws (A) and auger drive chain shield (B).



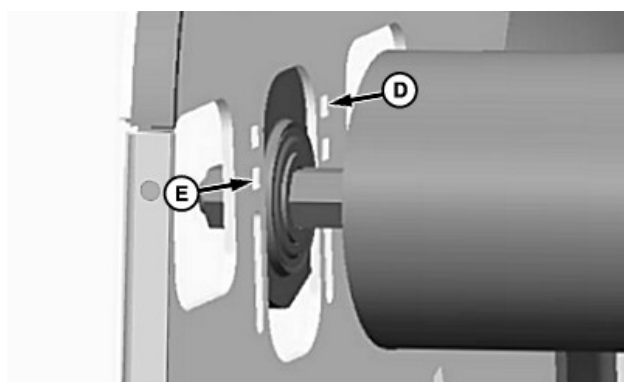
H114856—UN—29JUN15

A—Nut

5. Loosen nut (A) and auger drive chain.



H121805—UN—19JUN17



H121807—UN—19JUN17

- A—Carriage Bolt and Nut (4 used)
- B—Bearing Carrier
- C—Adjustment Slot (2 used)
- D—Upper Hole (2 used)
- E—Lower Hole (2 used)

6. Attach an appropriate lifting device to the auger.

IMPORTANT: Due to auger and flighting tolerances (auger runout), there must be at least a minimum clearance between auger flighting and floor.

Also see Adjusting Lower Stripper in this section.

NOTE: In most conditions, keep bearing carriers adjusted to the lowest position in the upper holes (D). Do not use the lower holes (E) unless the corn head is equipped with a grain quality floor kit. Lowering the auger below the minimum clearances listed increases crop damage.

Improved grain quality can be obtained by installing a grain quality floor kit. A grain quality floor kit allows for lower auger flighting to floor clearances. See your John Deere dealer for further information.

Specification

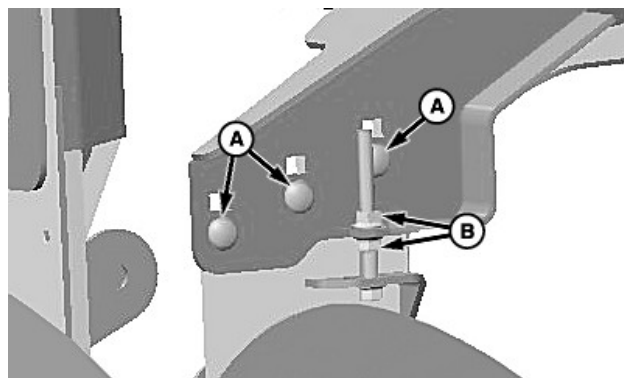
Auger Flighting to
Floor—Minimum Clearance
(Without Grain Quality Kit) 30—35 mm
(1-3/16—1-3/8 in)

Auger Flighting to
Floor—Minimum Clearance
(With Grain Quality Kit) 15—20 mm
(19/32—25/32 in)

7. Loosen carriage bolts and nuts (A) on the bearing carrier (B).
8. Adjust auger height up or down as necessary.
9. If the auger needs lowered further than the adjustment slots (C) allow:
 - a. Remove carriage bolts and nuts from the bearing carrier.
 - b. Move bearing carrier from the upper holes (D) to the lower holes (E) and reinstall carriage bolts and nuts. Do not tighten carriage bolts and nuts to specification at this time.

IMPORTANT: Auger must be adjusted equally across the entire length of the auger.

10. Adjust bearing carrier on the opposite side of the header.



H121806—UN—19JUN17

- A—Carriage Bolt and Nut (3 used)
- B—Nut (2 used)

11. For 12-, 16-, and 18-row headers, adjust the center auger support:
 - a. Loosen carriage bolts and nuts (A).
 - b. Adjust nuts (B) to move the auger up or down as necessary.
12. Verify that the auger is adjusted to give equal auger flighting to floor clearance across the length of the auger.
13. Tighten all hardware on bearing carriers and center auger support, if equipped, to specification.

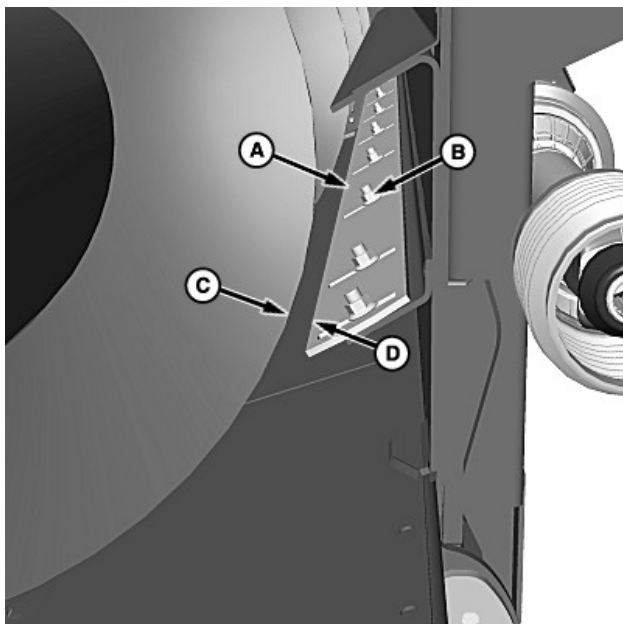
Specification

Bearing Carrier	
Hardware—Torque	35 N·m (26 lb·ft)
Center Auger Support Hardware (12-, 16-, and 18-Row Corn Heads)—Torque	88 N·m (65 lb·ft)

14. Adjust the auger drive chain (see Adjusting Auger Drive Chain in this section).
15. If equipped, adjust the auger drive chain on the opposite side.
16. Install previously removed shields.

AZ06166,000022E-19-20JUN17

Adjusting Lower Stripper



H95839—UN—25MAR10

- A—Lower Stripper
- B—Hardware
- C—Auger Flighting
- D—Stripper Edge

Strippers on the rear wall of the corn head prevent crop and material from wrapping around auger as it is transported towards the feeder house. The lower stripper (A) is adjustable.

1. Loosen hardware (B).
2. Adjust stripper forward or rearward so the specified gap exists between auger flighting (C) and stripper edge (D).

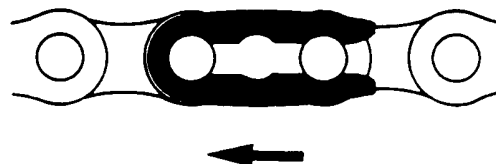
Specification

Auger Flighting and
Stripper—Clearance. 6 mm
(1/4 in)

3. Tighten previously loosened hardware.

OUO6075,000433A-19-13SEP16

Coupling the Chain



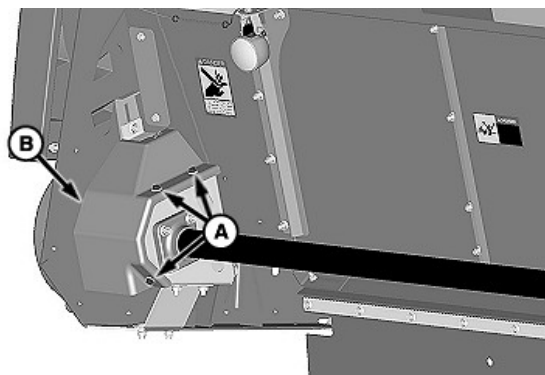
H41470

H41470—UN—28NOV89

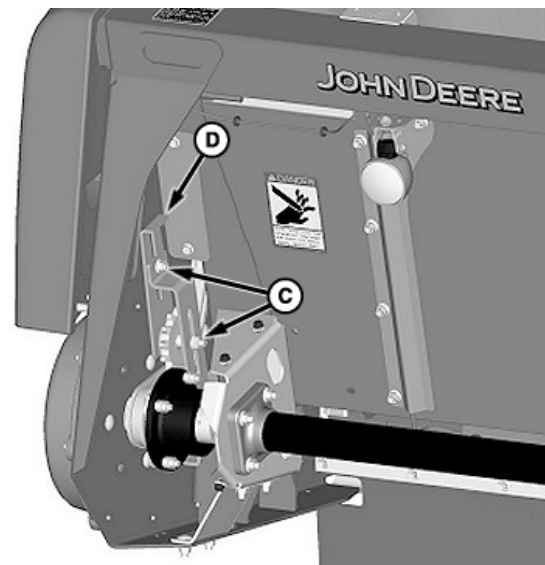
When securing a chain coupler link, closed end of spring lock must face in direction of chain travel.

KR43067,0000738-19-09JUL15

Adjusting Auger Drive Chain



H114322—UN—05JUN15



H114323—UN—05JUN15

- A—Cap Screws
- B—Cover
- C—Lock Nuts
- D—Idler Plate

1. Remove cap screws (A) and cover (B).

- 2. Loosen lock nuts (C).
- 3. Slide idler plate (D) down to increase chain tension and slide plate up to decrease tension.
- 4. Tighten lock nuts to specification.

Specification

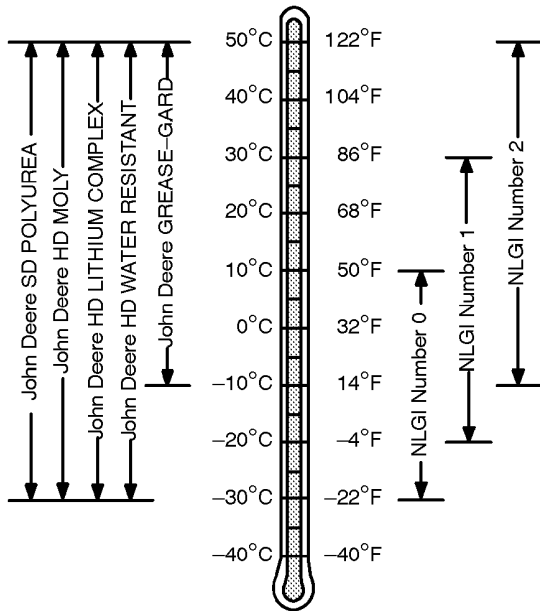
Idler Plate Nuts—Torque. 90 N·m
(66 lb.-ft.)

NOTE: Excess chain tension will cause undue chain wear. Set chain tension so slack side movement is 10 mm (3/8 in.) up and 10 mm (3/8 in.) down.

DM84283,00006F8-19-21MAY15

Lubrication

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: 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.

AG,OUO1035,1175-19-09JUL15

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

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

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

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.

Lubrication and Maintenance

Service Interval Chart—Every 10 Hours

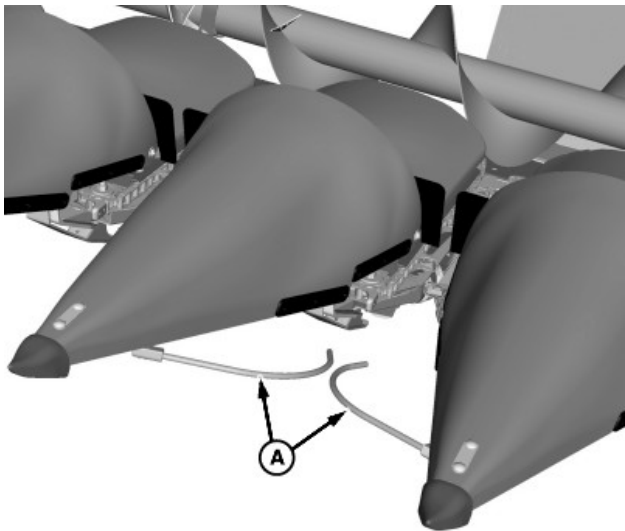
	Every 10 Hours
Clean and Inspect AutoTrac™ RowSense™ Sensors (If Equipped)	•

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

OUO6075.00046A8-19-25APR17

Every 10 Hours of Operation

Cleaning AutoTrac™ RowSense™ Sensors (If Equipped)



H95836—UN—25MAR10

A—Sensors

CAUTION: Shut OFF engine, set park brake, and remove key.

Raise feeder house completely and lower safety stop onto hydraulic cylinder rod.

AutoTrac™ RowSense™ sensors (A) should be checked daily to see if cleaning is necessary. If material has accumulated on sensors it may prevent free movement and affect performance. To clean row sensors, remove debris from sensors and surrounding area. Check that sensors move freely without obstruction.

OUO6075.00046A9-19-24APR17

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

Service Interval Chart—Every 200 Hours

	Every 200 Hours
Inspect and Adjust Chains	•
Replace Oil in Row Unit Drive Chain	•
Lubricate Auger Drive Chain	•
Check Row Unit Gear Case Oil	•
Lubricate Row Unit Slip Clutch	•
Lubricate Auger Drive Slip Clutch	•
Check StalkMaster™ Chopping Gear Case Oil (if equipped)	•
Lubricate Input Drive Shaft(s)	•

StalkMaster is a trademark of Deere & Company

IMPORTANT: To avoid equipment damage and failure due to system contamination, always clean grease fittings before and after lubrication.

If a grease fitting is damaged or missing, replace it immediately.

IMPORTANT: When checking oil levels, always clean area around plugs before removal.

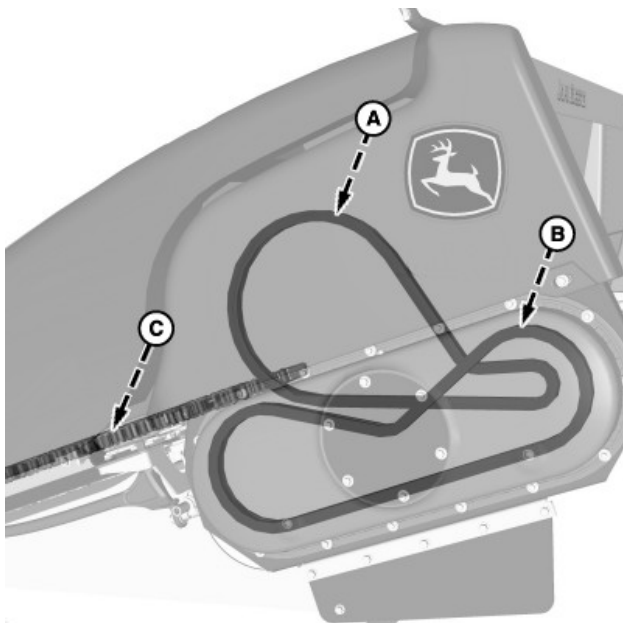
Always tighten plugs securely.

OUO6075,00046AA-19-25APR17

Every 200 Hours of Operation

Inspect and Adjust Chains—Gatherer, Auger Drive, and Row Unit Drive

NOTE: Different header models may have a different number of each chain.



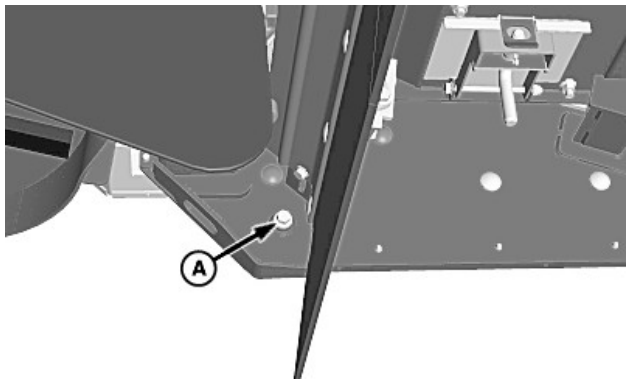
H120820—UN—14FEB17

A—Auger Drive Chain
B—Row Unit Drive Chain

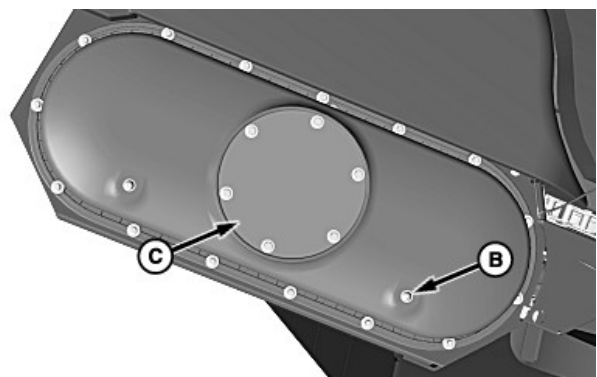
C—Gatherer Chain

1. **Auger Chain (A):** Inspect condition and tension of chain. Adjust or replace as necessary (see Adjusting Auger Drive Chain in Adjustments section).
2. **Row Unit Drive Chain (B):** Inspect condition and tension of chain(s). Adjust or replace as necessary (see Adjusting Row Unit Drive Chain in Adjustments section of this manual).
3. **Gatherer Chains (C):** Inspect condition and tension of chains. Adjust or replace as necessary (see Adjusting Gatherer Chain Tension in Adjustments section).

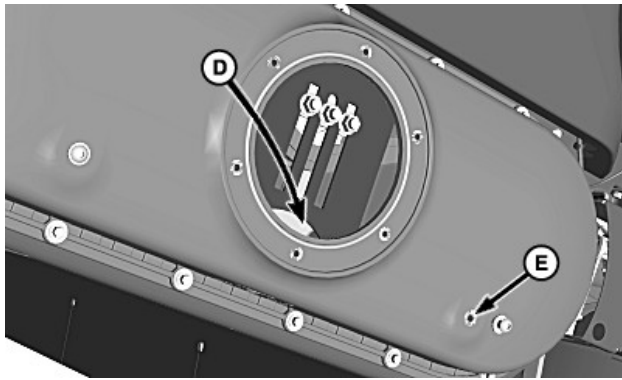
Replace Oil in Row Unit Drive Chain:



H99231—UN—30NOV10



H99232—UN—30NOV10



H99233—UN—30NOV10

- A—Drain Plug
B—Check Plug
C—Access Door
D—Fill Location
E—Check Plug Hole

IMPORTANT: Keep oil level to specification to prevent excessive chain wear.

1. Completely raise header and engage feeder house safety stop.
2. Operate header for a short time to warm oil before draining.

NOTE: Drain fluid into a clean container and dispose of properly.

3. Remove drain plug (A), disengage safety stop, and lower header to drain oil.
4. Install drain plug.
5. Remove check plug (B) and access door (C).

IMPORTANT: Oil level should be checked with the header on combine and gatherer points touching ground (approximately a 25° angle).

6. Add SAE 80/90 gear lube through fill location (D) until gear lube is level with bottom of the check plug hole (E). Approximate capacity is 0.9 L (1 qt).

Specification

Drive Chain Oil—Capacity. 0.9 L
(1 qt)

NOTE: Verify that access door seal is clean and undamaged. Replace as necessary.

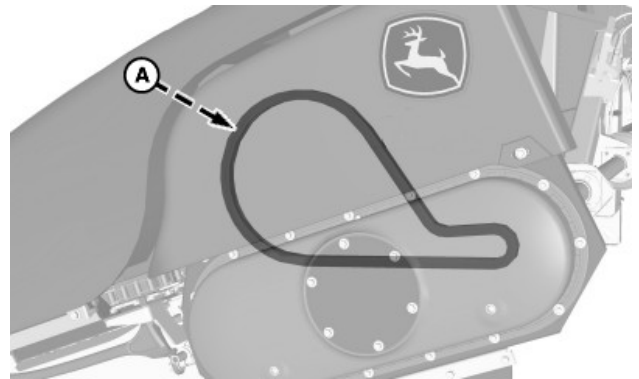
7. Install access door and check plug. Tighten access door cap screws to specification.

Specification

Access Door Cap
Screws—Torque. 17 N·m
(150 lb·in)

8. If header uses dual driveshafts, repeat on the opposite side.

Lubricate Auger Drive Chains:



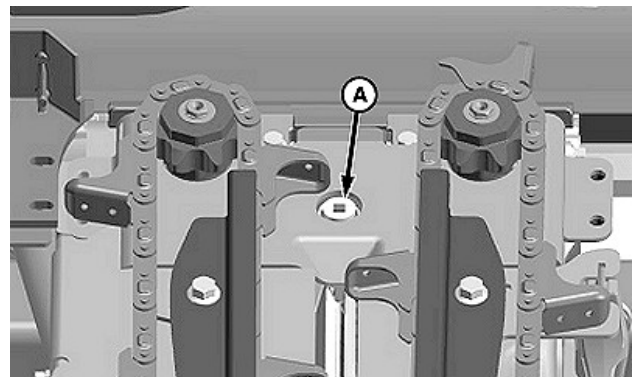
H120822—UN—15FEB17

A—Auger Drive Chain

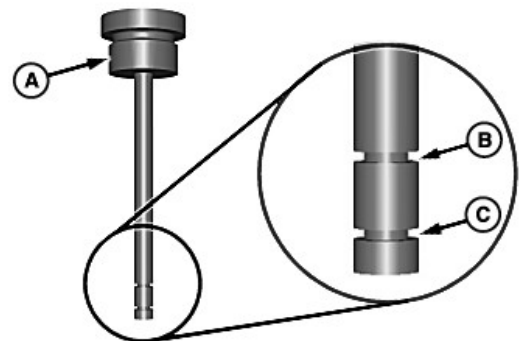
CAUTION: To avoid serious injury, never lubricate chains with the engine running.

1. Operate header for a short time before lubricating chains. A warm chain increases penetration of oil between pins and bushings.
2. Lubricate chain with SAE 30 or heavier oil. John Deere TY6240 chain lube is available in an aerosol can.
3. If header uses dual driveshafts, repeat on the opposite side.

Check Row Unit Gear Case Oil:



H120823—UN—02MAY17



A—Inspection Plug/Dipstick
B—Full Mark
C—Minimum Mark

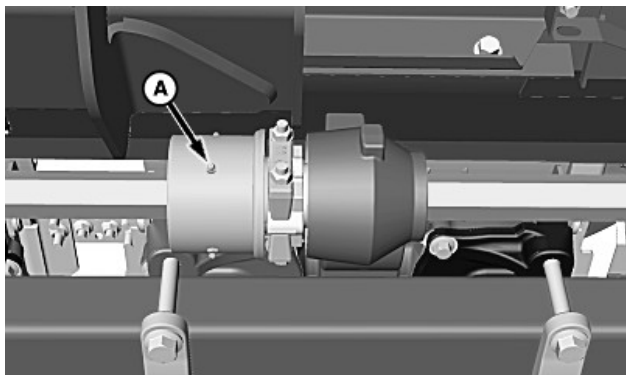
H100565—UN—03MAR11

NOTE: To obtain accurate readings on the dipstick, raise the header and warm the row unit gear case oil.

1. Operate header for a short time to warm gear case oil.
2. Completely raise header and engage feeder house safety stop.
3. Shut OFF engine, set park brake, and remove key.
4. Clean area around inspection plug/dipstick (A) to avoid dirt and debris from entering gear case.
5. Remove dipstick and wipe clean.
6. Completely thread dipstick into gear case, remove, and observe fluid level on shaft.
7. If level is below the full mark (B), add TY6296 80W 90 GL-5 gear lube through the dipstick port until gear lube is level with the full mark.

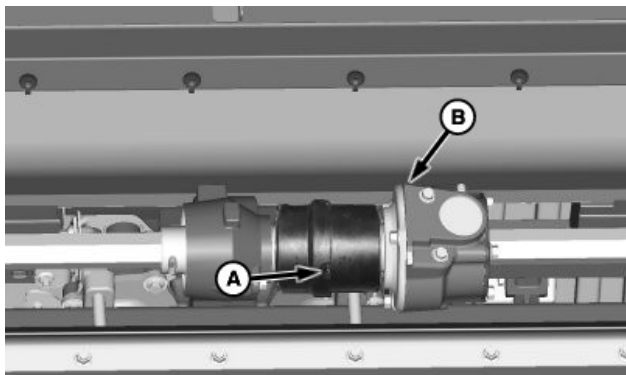
IMPORTANT: Do not overfill gear case. 0.42 L (0.44 qt) of lube is required to fill gear case from the minimum mark (C) to the full mark (B). The amount of lube to add at other levels is proportional.

Lubricate Row Unit Slip Clutches:



H99158—UN—22NOV10

Non-Chopping Model Shown



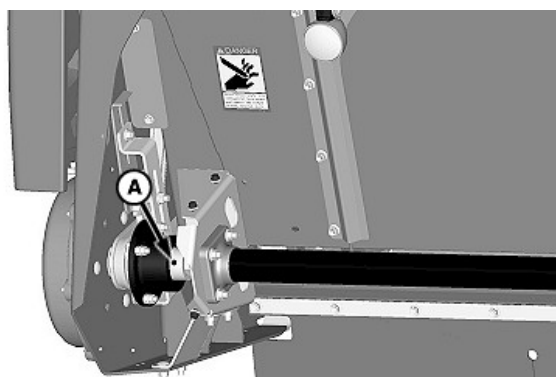
H114327—UN—05JUN15

A—Row Unit Slip Clutch Grease Fittings
B—Chopping Gear Case

IMPORTANT: Each slip clutch has multiple grease fittings for ease of access. Lubricate only ONE fitting per clutch.

1. Completely raise header and engage feeder house safety stop.
2. **Non-Chopping Corn Head Only:**
 - a. Locate row unit slip clutch under header. Slip clutch is mounted on the left side of gear case.
 - b. Apply ten pumps of grease to one grease fitting (A) on slip clutch.
 - c. Repeat lubrication on remaining rows units.
3. **Chopping Corn Head Only:**
 - a. Locate row unit slip clutch under header. Slip clutch is mounted between gear case and chopping gear case (B).
 - b. Apply ten pumps of grease to one grease fitting (A) on slip clutch.
 - c. Repeat lubrication on remaining row units.

Lubricate Auger Drive Slip Clutch:



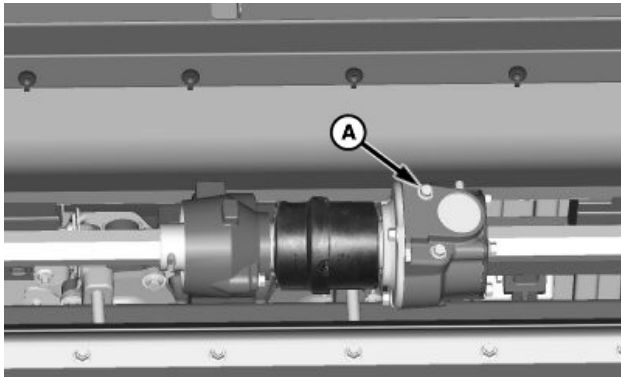
H114324—UN—05JUN15

A—Auger Drive Slip Clutch Grease Fitting

IMPORTANT: Each slip clutch has multiple grease fittings for ease of access. Lubricate only ONE fitting per clutch.

1. Apply ten pumps of grease to one grease fitting (A) on auger drive slip clutch.
2. If header uses dual driveshafts, repeat on the opposite side.

Check StalkMaster™ Gear Case Oil (If Equipped):



H114325—UN—05JUN15



H99160—UN—22NOV10

Front Reservoir Shown

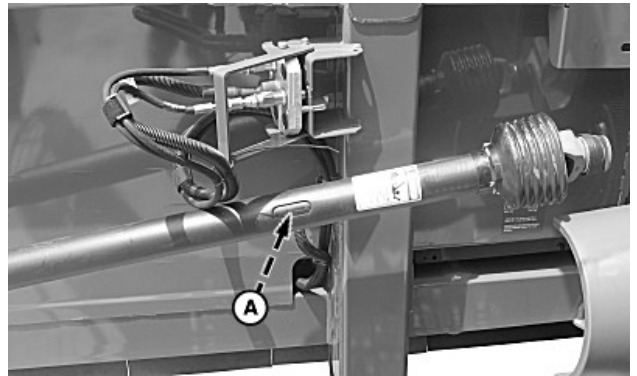
A—Check/Fill Plug
B—Check/Fill Plug

NOTE: To obtain accurate oil level readings, raise header and warm StalkMaster™ chopping gear case oil.

2. Operate header a short time to warm gear case oil.

3. Completely raise StalkMaster™ header and engage feeder house safety stop.
4. Shut OFF engine, set park brake, and remove key.
5. Remove check/fill plug (A) at the rear of gear case. Oil level should be at bottom of the check/fill plug hole. Add TY6296 80W 90 GL-5 gear lube as necessary to obtain correct level. Reinstall check/fill plug.
6. Remove check/fill plug (B) at the front of gear case. Oil level should be at bottom of the check/fill plug hole. Add TY6296 80W 90 GL-5 gear lube as necessary to obtain correct level. Reinstall check/fill plug.
7. Repeat for remaining chopping gear cases.

Lubricate Input Driveshaft:



H99098—UN—17NOV10

A—Driveshaft Grease Fitting

1. Rotate shield as necessary to access grease fitting.
2. Grease the input driveshaft grease fitting (A).
3. If header uses dual driveshafts, repeat on the opposite side.

OUO6041,0000B39-19-19JUN17

Service Interval Chart—Every 400 Hours

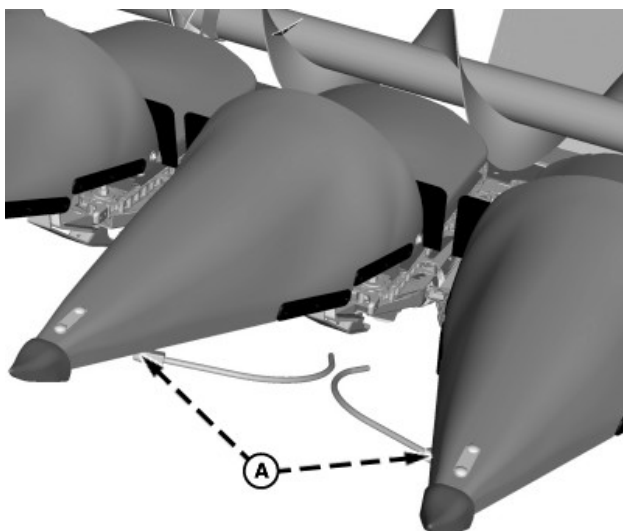
	Every 400 Hours
Inspect AutoTrac™ RowSense™ Sensor Bushings (If Equipped)	•

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

OUO6075,00046AD-19-25APR17

Every 400 Hours of Operation

Inspect AutoTrac™ RowSense™ Sensor Bushings (If Equipped)



H121123—UN—22MAR17

A—Bushings

CAUTION: Shut OFF engine, set park brake, and remove key.

Raise feeder house completely and lower safety stop onto hydraulic cylinder rod.

Annually check for excessive wear of AutoTrac™ RowSense™ sensor bushings (A) and shafts. Replace as necessary.

OUO6075,00046AE-19-24APR17

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

Service Interval Chart—Every 1000 Hours

	Every 1000 Hours
Replace Oil in Row Unit Gear Case	•
Replace Oil in Chopping Gear Case (if equipped)	•

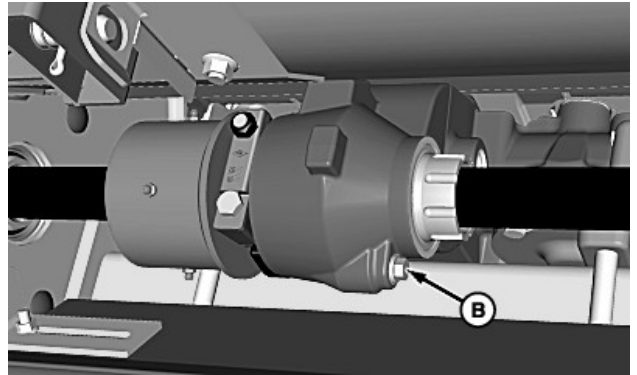
IMPORTANT: To avoid equipment damage and failure due to system contamination, always clean grease fittings before and after lubrication.

If a grease fitting is damaged or missing, replace it immediately.

IMPORTANT: When checking oil levels, always clean area around plugs before removal.

Always tighten plugs securely.

OOU6075,00046AB-19-25APR17



H103951—UN—09NOV11

Viewed from Below, Behind Row Unit

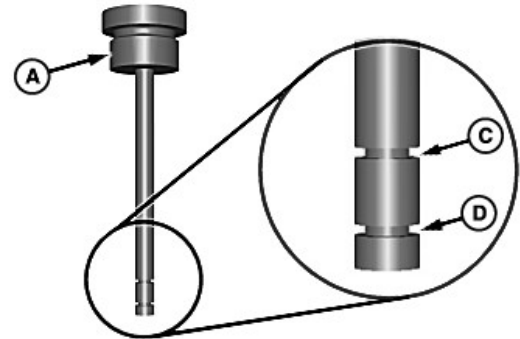
Every 1000 Hours of Operation

IMPORTANT: To avoid equipment damage and failure due to system contamination, always clean grease fittings before and after lubrication.

If a grease fitting is damaged or missing, replace it immediately.

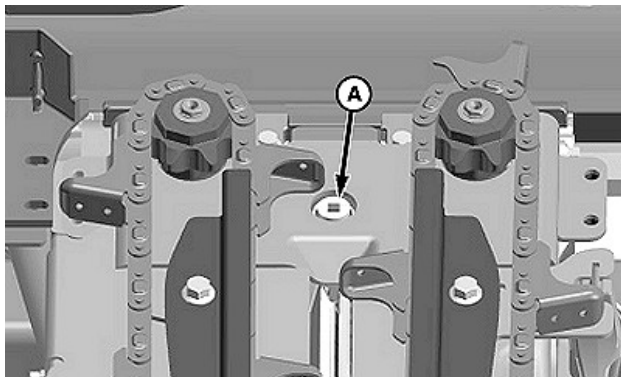
IMPORTANT: When checking oil levels, always clean area around plugs before removal.

Always tighten plugs securely.



H96322—UN—13MAY10

Replace Oil in Row Unit Gear Case



H120823—UN—02MAY17

Viewed From Above Row Unit

A—Inspection Plug/Dipstick
B—Drain Plug
C—Full Mark
D—Minimum Mark

NOTE: To drain and fill oil, raise header and warm row unit gear cases.

1. Operate header to warm row unit gear case oil.
2. Completely raise the header and engage feeder house safety stop.
3. Shut OFF engine, set park brake, and remove key.
4. Clean area around inspection plug/dipstick (A) to avoid dirt and debris from entering gear case.
5. Remove dipstick and wipe clean.

NOTE: Drain oil into a clean container and dispose of properly.

6. Remove drain plug (B) and allow oil to drain.
7. Reinstall drain plug.
8. Add TY6296 80W 90 GL-5 gear oil through the dipstick port.

Specification

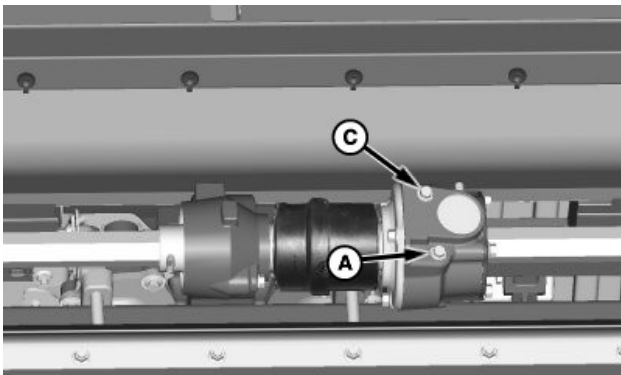
Reservoir—Capacity. 1100 mL
(37.2 oz)

9. Completely thread dipstick into gear case, remove, and observe fluid level on shaft.
10. If level is below the full mark (C), add oil as necessary.

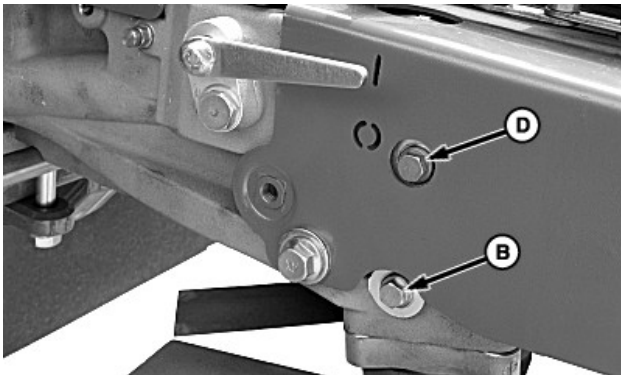
IMPORTANT: Do not overfill gear case. 0.42 L (0.44 qt) of oil is required to raise level from the minimum mark (D) to the full mark (C). The amount of oil to add at other levels is proportional.

11. Reinstall dipstick.
12. Repeat for remaining row unit gear cases.

Replace Oil in StalkMaster™ Chopping Gear Cases



H114326—UN—05JUN15



H99162—UN—22NOV10

Front Reservoir Shown

- A—Rear Drain Plug**
B—Front Drain Plug
C—Rear Check/Fill Plug
D—Front Check/Fill Plug

NOTE: To drain and fill oil, raise header and warm chopping gear cases. Chopping blades must be engaged in order to warm front reservoir oil. Verify that chopping gear case engage/disengage lever is in the engaged position.

1. Operate header to warm chopping gear case oil.
2. Completely raise the header and engage feeder house safety stop.
3. Shut OFF engine, set park brake, and remove key.

NOTE: Drain oil into a clean container and dispose of properly.

4. Remove front and rear drain plugs (A and B) and allow oil to drain.
5. Reinstall plugs.
6. Remove front and rear check/fill plugs (C and D).
7. Add TY6296 80W 90 GL-5 gear lube to front and rear reservoirs until level with bottom of check/fill plug holes.

Specification

Rear Reservoir—Capacity. 350 mL
(11.8 oz)

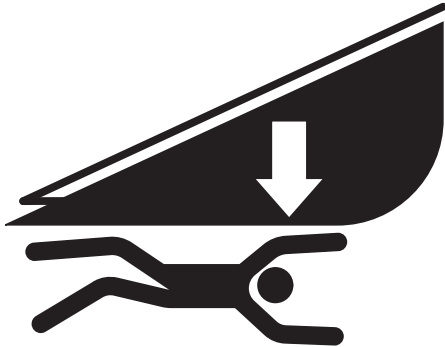
Front Reservoir—Capacity. 630 mL
(21.3 oz)

8. Reinstall check/fill plugs.
9. Repeat for remaining chopping gear cases.

OUO6041,0000B43-19-25APR17

Service

Hydraulic Cylinder Safety Stop



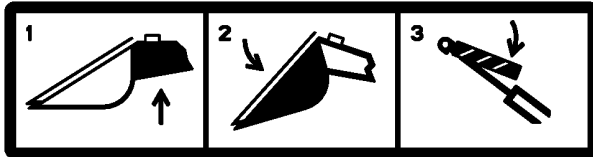
H121063—UN—14MAR17

Shut OFF engine, set park brake, and remove key.

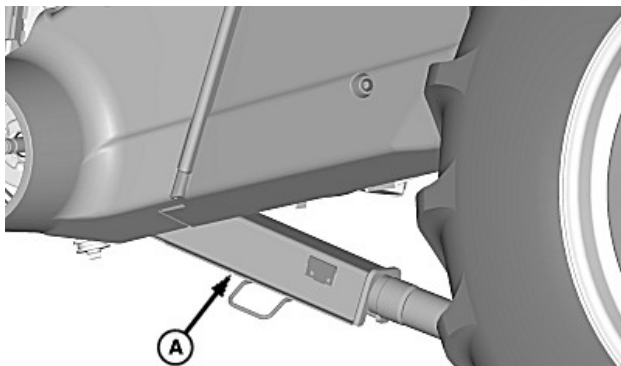
NOTE: When feeder house is raised and header is engaged, feeder house fore/aft tilt automatically moves forward allowing feeder house safety stop to be lowered onto hydraulic cylinder rod. Feeder house fore/aft tilt automatically returns to last known position when lowering.

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.

OUC06075,00046C3-19-24APR17



H112829—UN—18FEB15



A—Safety Stop

CAUTION: Shut OFF engine, set park brake, and remove key.

Cracking of the 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.

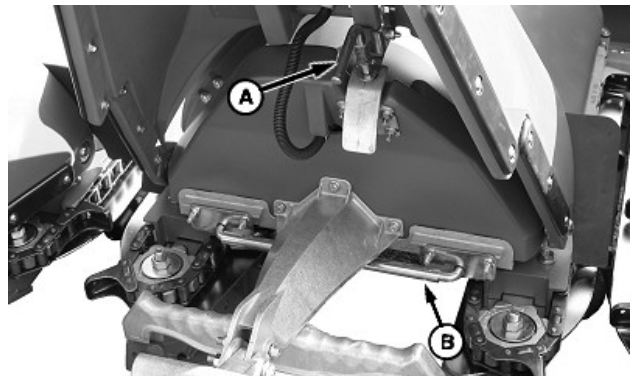
Shut OFF engine, set park brake, and remove key.

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.

Remove and Install Stalk Rolls

Remove Stalk Rolls



H89314—UN—20JUL07

A—Pin
B—Latch Bar

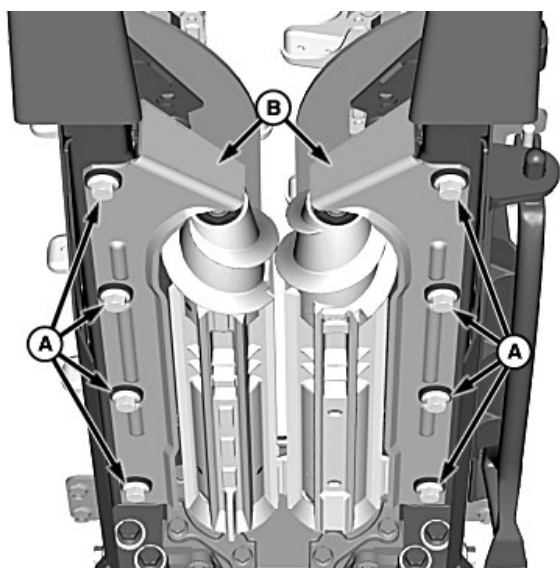
CAUTION: Completely raise the header and engage feeder house safety stop before performing any work.

1. Raise gatherer point until pin (A) latches into place.

IMPORTANT: Points can damage the combine windshield. Do not push shields over back of frame.

2. Pull latch bar (B) and lift gatherer shield.

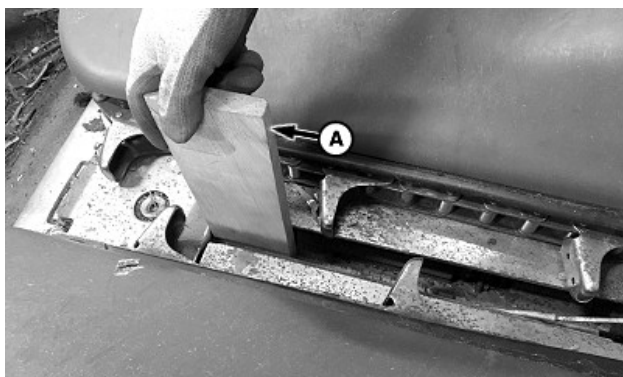
3. Repeat as necessary for access to row units.



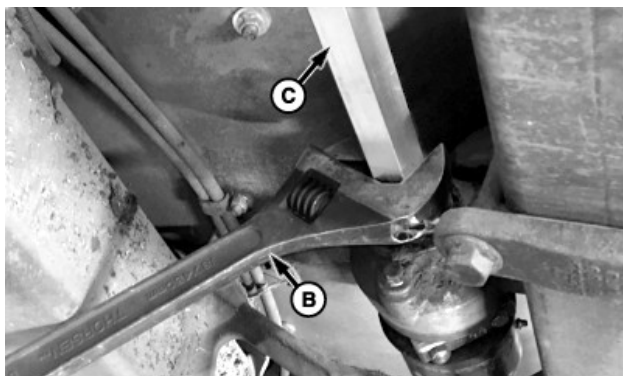
H125374—UN—21NOV18

A—Cap Screw and Washer (8 used)
B—Trash Knife (2 used)

4. Remove cap screws and washers (A) from the underside of the row unit frame.
5. Remove trash knives (B).



H125375—UN—21NOV18

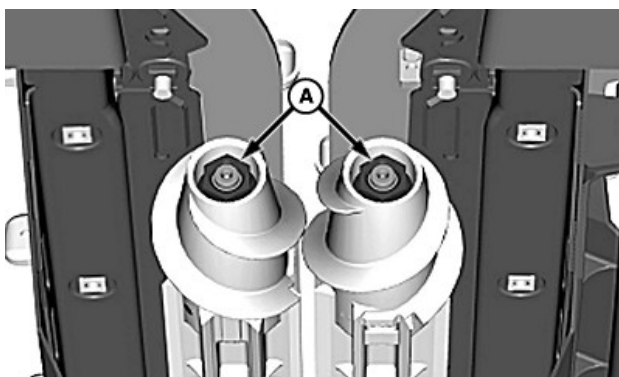


H125376—UN—20NOV18

A—Piece of Wood
B—Adjustable Wrench
C—Row Unit Driveshaft

NOTE: When removing the stalk rolls, prevent the stalk rolls from rotating using one of the following methods:

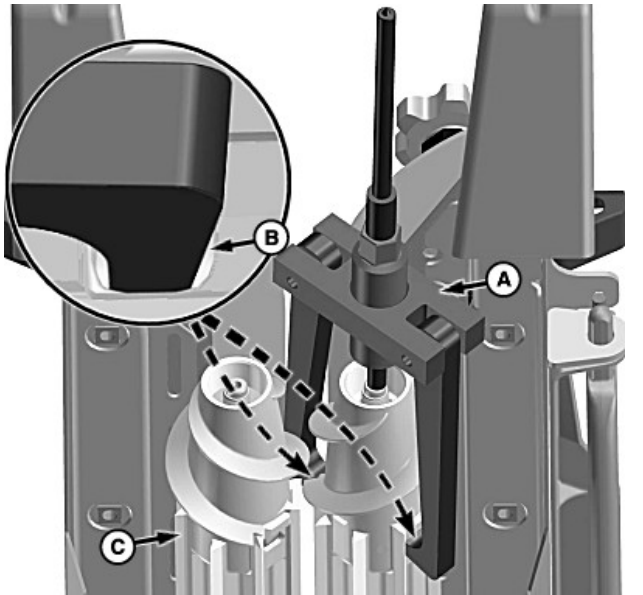
6. **Piece of Wood Method** (StalkMaster™ or non-StalkMaster™):
 - a. To remove the left-hand retaining nut, insert a 13 mm (1/2 in) piece of wood (A) between the stalk rolls from the top.
 - b. To remove the right-hand retaining nut, insert a 13 mm (1/2 in) piece of wood between the stalk rolls from the bottom.
7. **Adjustable Wrench Method** (StalkMaster™ only):
 - a. Install an adjustable wrench (B) onto the row unit driveshaft (C).
 - b. To remove the left-hand retaining nut, brace the adjustable wrench against the rear tube.
 - c. To remove the right-hand retaining nut, brace the adjustable wrench against the row unit mounting tube.



H125377—UN—20NOV18

A—Retaining Nut and Spherical Washer (2 used)

8. Remove the retaining nut and spherical washer (A). Discard the retaining nut.
9. Inspect the spherical washer for corrosion or damage. Replace if necessary.



A—Two-Arm Gear Puller
B—Port (4 used)
C—Stalk Roll (2 used)

H125378—UN—21NOV18

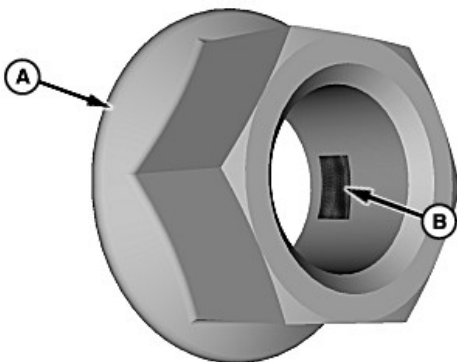
CAUTION: Avoid injury, stalk rolls are sharp. Wear gloves when handling stalk rolls.

IMPORTANT: Place alignment marks on face of stalk rolls and shafts before removal. Stalk rolls must be installed in same position and on the same shaft as they were removed.

Chopping stalk rolls must be removed simultaneously.

10. If necessary to loosen the stalk rolls, install a two-arm gear puller (A) into the two ports (B) behind the spiral of each stalk roll (C). Loosen both stalk rolls using the gear puller.
11. Remove stalk rolls.
12. Remove all dirt and corrosion from shaft taper, splines, and threads. Inspect stalk rolls for wear or damage. Replace as necessary.

Install Stalk Rolls



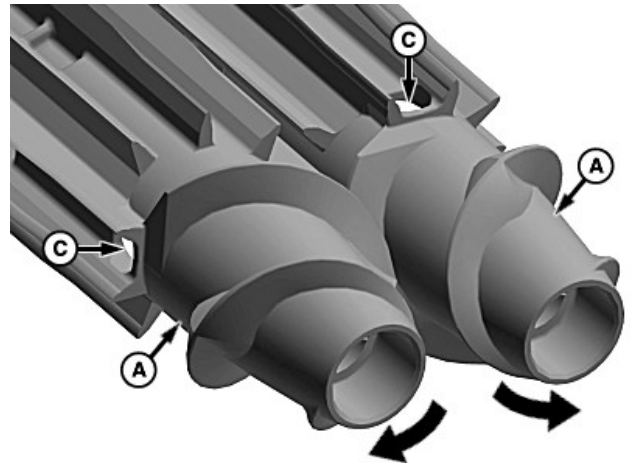
A—Retaining Nut

H97520—UN—04AUG10

B—Thread Locking Patch

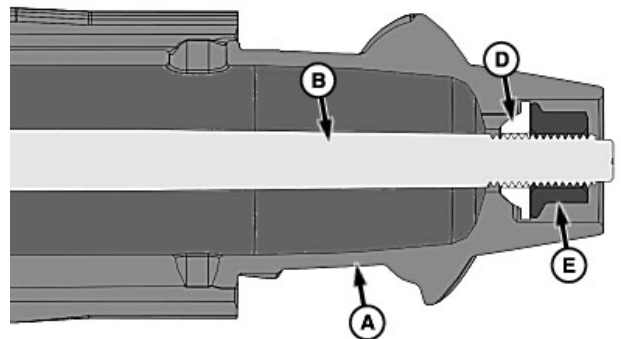
IMPORTANT: A new nut must be installed. See your John Deere dealer.

1. Stalk roll retaining nut (A) contains a pre-applied thread locking patch (B) and cannot be reused.



H125384—UN—21NOV18

Correct Orientation of Stalk Rolls



H125380—UN—21NOV18

Cutaway of Stalk Roll

A—Stalk Roll (2 used)
B—Shaft (2 used)
C—Port (4 used)
D—Spherical Washer (2 used)
E—Retaining Nut (2 used)

CAUTION: Avoid injury, stalk rolls are sharp. Wear gloves when handling stalk rolls.

IMPORTANT: Ensure that the stalk rolls are installed on the correct shaft. Spiral flightings must pull stalks into rolls when rotating in the proper direction.

2. If marks were made at the time of removal, use alignment marks to install the stalk rolls (A) onto the shafts (B) in the correct orientation.

If alignment marks were not made or new stalk rolls are being installed, use the ports (C) to orientate the

stalk rolls properly. Position the ports on one stalk roll so they are perpendicular (90°) to the ports on the other stalk roll.

IMPORTANT: Chopping stalk rolls must be installed simultaneously.

3. Install stalk rolls.

IMPORTANT: Rotate stalk rolls as needed, to align with splines.

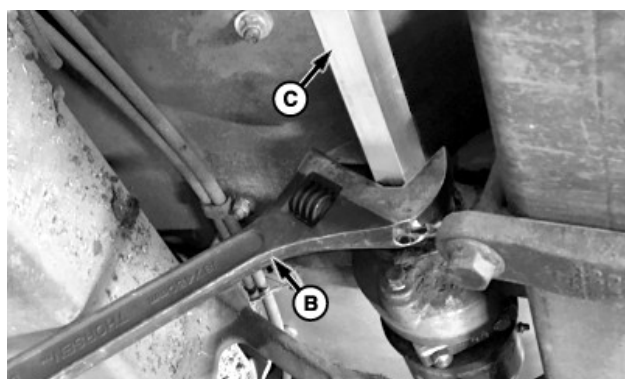
Do not tighten hardware until instructed. Follow procedure exactly.

Flat side of washer MUST face away from stalk roll.

4. Install spherical washers (D) and **new** retaining nuts (E).



H125375—UN—21NOV18



H125376—UN—20NOV18

A—Piece of Wood
B—Adjustable Wrench
C—Row Unit Driveshaft

NOTE: When tightening the retaining nuts, prevent the stalk rolls from rotating using one of the following methods:

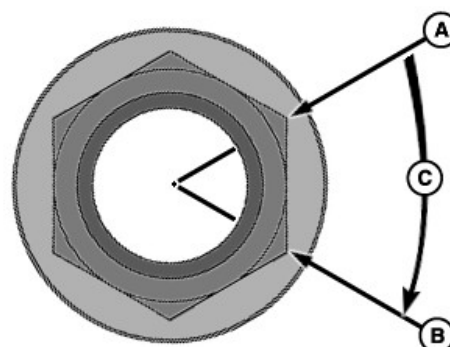
5. **Piece of Wood Method** (StalkMaster™ or non-StalkMaster™):

- a. When tightening the left-hand retaining nut, insert a 13 mm (1/2 in) piece of wood (A) between the stalk rolls from the bottom.

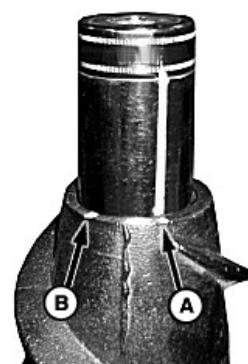
- b. When tightening the right-hand retaining nut, insert a 13 mm (1/2 in) piece of wood between the stalk rolls from the top.

6. **Adjustable Wrench Method** (StalkMaster™ only):

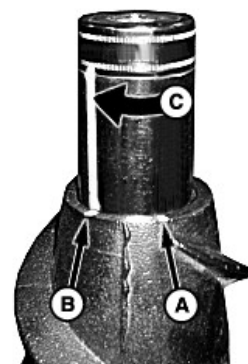
- a. Install an adjustable wrench (B) onto the row unit driveshaft (C).
- b. When tightening the left-hand retaining nut, brace the adjustable wrench against the row unit mounting tube.
- c. When tightening the right-hand retaining nut, brace the adjustable wrench against the rear tube.



H125381—UN—20NOV18



H125383—UN—20NOV18



H125382—UN—20NOV18

A—Mark at Corner of Retaining Nut
B—Mark at Next Corner of Retaining Nut (clockwise)
C—60° Turn

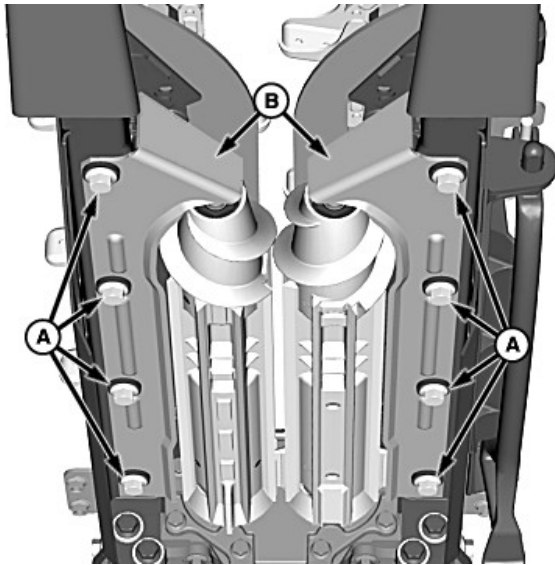
IMPORTANT: Avoid loosening of stalk rolls. Follow torque and turn procedure exactly.

7. Tighten the retaining nut to specification using the following procedure:

Specification

Stalk Roll Retaining
Nut—Torque. 135 N·m + 60° Turn
(100 lb·ft + 60° Turn)

- a. Tighten the retaining nut to torque specification.
 - b. Mark stalk roll at one corner of retaining nut (A).
 - c. Moving clockwise around retaining nut, mark stalk roll at next corner of retaining nut (B).
 - d. Position socket on retaining nut and extend first mark (A) onto wall of socket.
 - e. Turn retaining nut 60° (C) by tightening retaining nut until the mark on socket wall reaches second the mark on stalk roll (B).
 - f. Repeat procedure for the other retaining nut.
8. Remove the piece of wood or adjustable wrench.



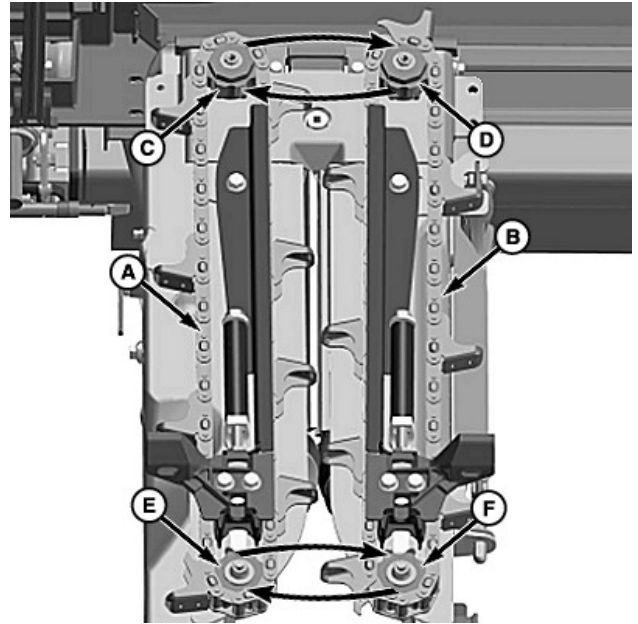
H125374—UN—21NOV18

A—Cap Screw and Washer (8 used)
B—Trash Knife (2 used)

9. Install trash knives (B) using cap screws and washers (A).
10. Adjust trash knives (see Adjusting Trash Knives in Adjustments—Corn Head section of this manual).
11. Lower the gatherer point.

MH69740,0000798-19-04FEB19

Reversing Gatherer Chains and Sprockets for Additional Wear



H120857—UN—16FEB17

A—Gatherer Chain
B—Gatherer Chain
C—Drive Sprocket
D—Drive Sprocket
E—Sprocket
F—Sprocket

The gatherer chains and sprockets can be reversed for extra wear. Reverse all row units at the same time.

1. To reverse gatherer chains and sprockets:

NOTE: Mark each chain and sprocket with side it was removed from for correct placement during assembly.

- a. Remove gatherer chains (A and B) — (see Remove and Install Gatherer Chain in this section).
- b. Remove drive sprockets (C and D).
- c. Install drive sprockets on the opposite shaft.
- d. Remove sprockets (E and F).
- e. Install sprockets on the opposite shaft.

IMPORTANT: Ensure that flights are oriented in the proper direction as shown.

- f. Flip each gatherer chain over and install on the opposite side. Adjust chains (see Remove and Install Gatherer Chain in this section).

2. Repeat on remaining row units.

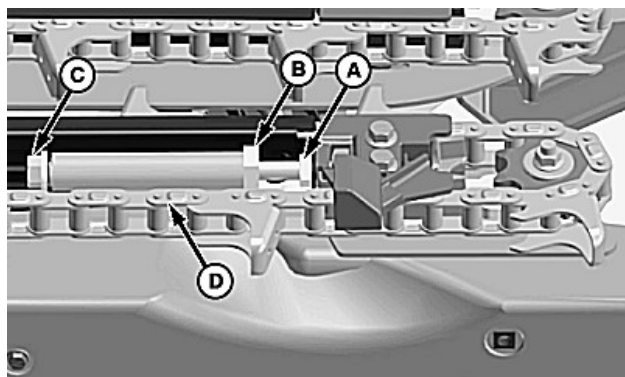
AZ06166,00001BD-19-26APR17

Remove and Install Gatherer Chain

CAUTION: Completely raise the header, shut OFF engine, set park brake, remove key, and lower feeder house safety stop before working under header.

If the gatherer chain tensioner range of adjustment has been reached or the chains fails, replace with a new chain. When replacing chain, also replace the drive sprocket and idler sprocket assembly to prevent premature wear of the replacement chain.

Gatherer chains can be removed for servicing row unit parts without uncoupling the chain.



H120858—UN—03MAY17

A—Nut
B—Support Strap
C—Cap Screw
D—Gatherer Chain

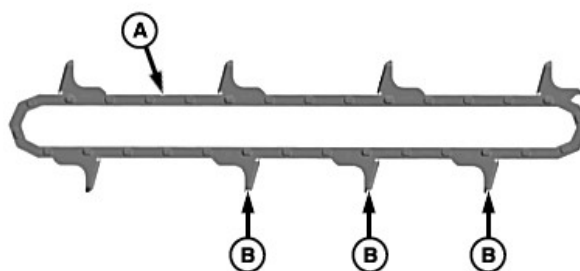
1. Remove folding gatherer point (see Raising and Removing Inner Gatherer Points and Shields in Operating the Corn Head section of this manual).

CAUTION: Never service components of the chain drive assembly until nut (A) is tight against the leg of the idler support strap (B).

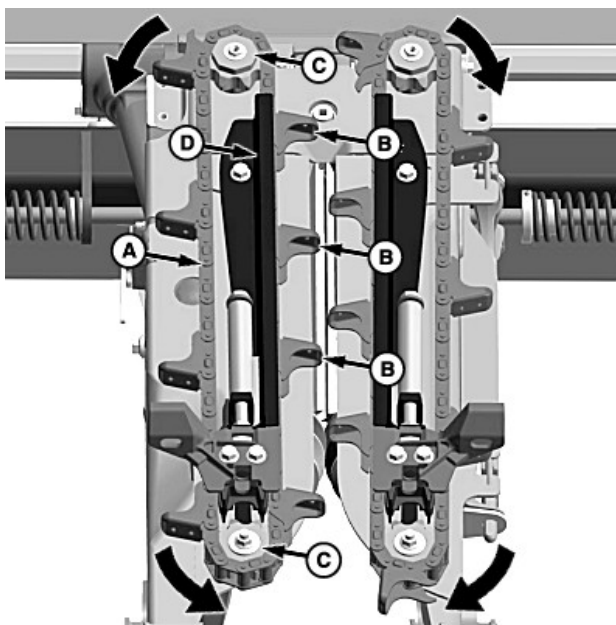
2. Loosen nut (A) until it is close to but not touching the leg of the support strap (B).

NOTE: Use a backup wrench on nut (A) to prevent nut from tightening against the support strap (B) when loosening cap screw (C).

3. Loosen cap screw (C) to release tension on the gatherer chain (D).
4. Remove gatherer chain from sprockets.



H121341—UN—10MAY17



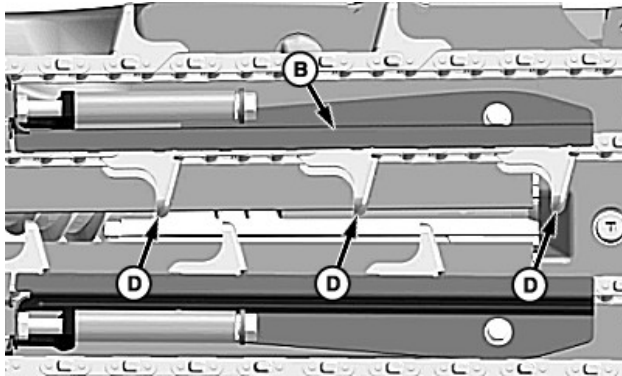
H121350—UN—26APR17

A—Gatherer Chain
B—Flights With the Closest Spacing (3 used)
C—Sprocket (2 used)
D—Chain Guide

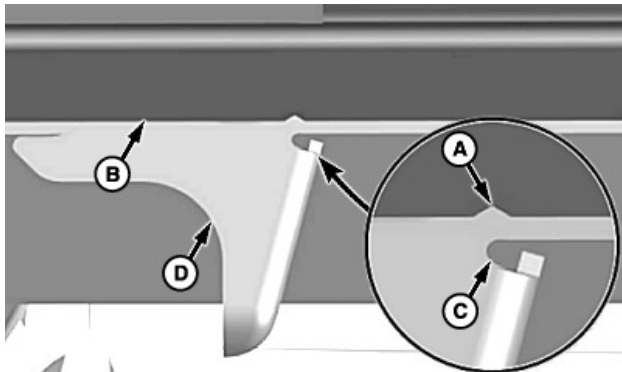
5. On the gatherer chain (A), locate the three flights with the closest spacing (B) between them.

IMPORTANT: Ensure that flights are oriented in the proper direction as shown.

6. Install the gatherer chain onto sprockets (C) so the three flights with the closest spacing are next to the chain guide (D) as shown.



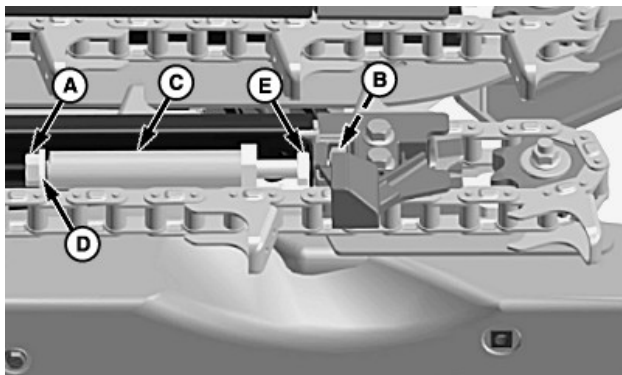
H121340—UN—10MAY17



H121342—UN—10MAY17

- A—Notch (3 used)
B—Chain Guide
C—Groove (3 used)
D—Flights With the Closest Spacing (3 used)

7. Adjust gatherer chain so notches (A) in the chain guide (B) are aligned with grooves (C) in flights with the closest spacing (D) as shown.



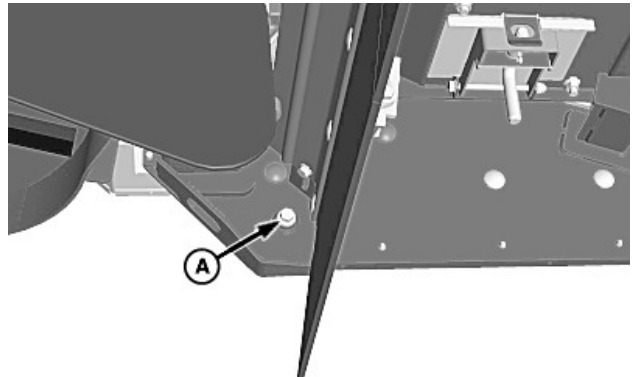
H121349—UN—25APR17

- A—Cap Screw
B—Nut
C—Spacer Tube
D—Washer
E—Nut

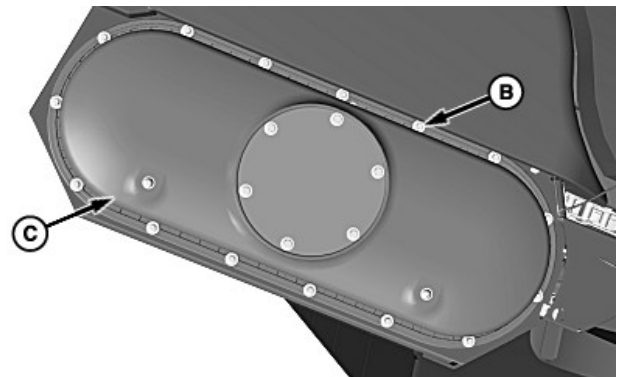
8. Tighten cap screw (A) into nut (B) until a 4.8 mm (3/16 in) maximum space is set between spacer tube (C) and washer (D).
9. Tighten nut (E) against the idler assembly.

AZ06166,00001BE-19-19JUN17

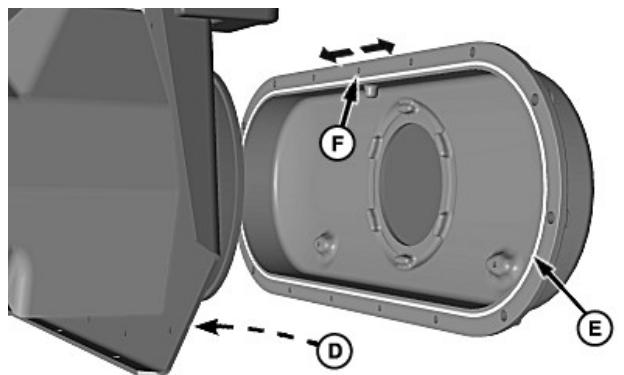
Remove and Install Oil Pan



H99231—UN—30NOV10



H99234—UN—30NOV10



H99235—UN—30NOV10

- A—Drain Plug
B—Cap Screw and Washer (15 used)
C—Oil Pan
D—Surface of Frame
E—Seal
F—Center Hole

1. Completely raise corn head and engage feeder house safety stop.
2. Operate header for a short time to warm oil.

NOTE: Capture fluid in a clean container and dispose of properly.

3. Remove drain plug (A), disengage safety stop, and lower corn head to drain oil.

IMPORTANT: Avoid damage to reusable seal on pan. Do not use sharp objects to pry between pan and corn head frame.

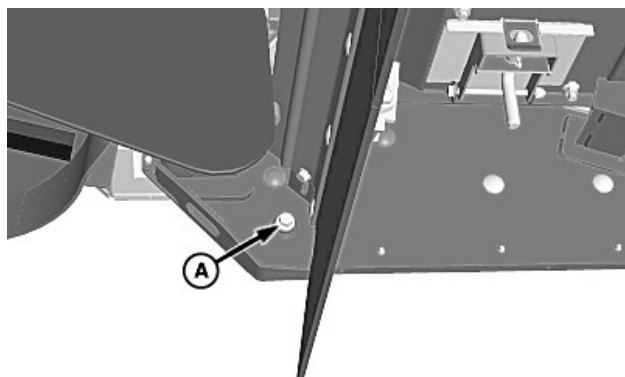
4. Remove cap screws and washers (B), and oil pan (C).
5. Clean all dirt and oil from side of frame (D) where oil pan is mounted.
6. Verify seal on oil pan (E) is clean and undamaged. Replace as necessary.

NOTE: When mounting oil pan, start installing hardware at center (F) and move outward.

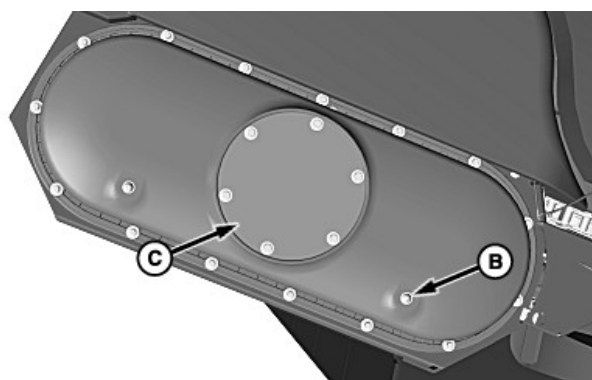
7. Install oil pan using cap screws and washers. Tighten to specification.

Specification

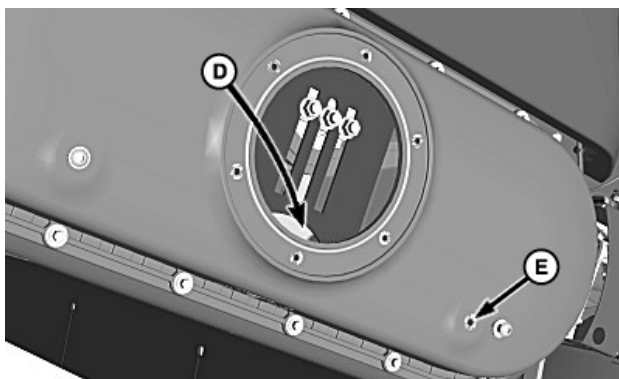
Oil Pan Cap Screws—Torque. 30 N·m
(256 lb.-in.)



H99231—UN—30NOV10



H99232—UN—30NOV10



H99233—UN—30NOV10

A—Drain Plug
B—Check Plug
C—Access Door
D—Fill Location
E—Drain Plug Hole

8. Install drain plug (A).
9. Remove check plug (B) and access door (C).

IMPORTANT: Oil level should be checked with corn head on combine and gatherer points touching ground (approximately a 25 degree angle).

10. Add SAE 80/90 gear lube through access door opening (D) until level with bottom of check plug hole (E).

Specification

Oil Pan—Capacity. 0.9 L
(1 qt.)

NOTE: Verify access door seal is clean and undamaged. Replace as necessary.

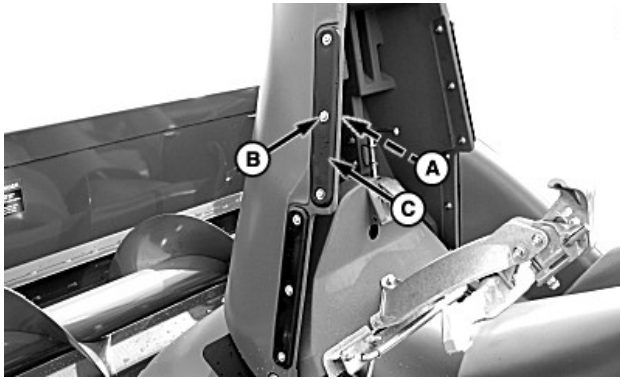
11. Install row unit drive chain cover and check plug. Tighten cover cap screws to specification.

Specification

Row Unit Drive Chain
Cover—Torque. 17 N·m
(150 lb.-in.)

DM84283,00006FB-19-22MAY15

Remove and Install Wear Strips



H88972—UN—23JUL07

- A—Nut and Washer (3 used)
 B—Socket Head Screw and Washer (3 used)
 C—Wear Strip

1. Remove nuts and washers (A).
2. Remove socket head screws and washers (B).
3. Remove wear strip (C).
4. Install new wear strip.
5. Retain wear strip using previously removed socket head screws, washers, and nuts. Tighten socket head screws and nuts to specification.

Specification

Socket Head Screws and Nuts—Torque.	10 N·m (89 lb·in)
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AZ06166,00001B8-19-24APR17

CAUTION: Knives have two cutting edges and can cause serious injury. Wear gloves when handling knives.

IMPORTANT: StalkMaster chopping knife blades must be replaced in pairs on each chopping gear case.

NOTE: StalkMaster chopping knives are wear items. Knives can be flipped for extended knife wear. Flip or replace knives as needed to maintain acceptable stalk chopping capability.

Worn, dull, or damaged knives are factors that affect corn head power consumption and stalk chopping quality, both of which can limit harvest speed. The expected wear life of chopping knives will vary with the operator's harvest conditions and operation habits.

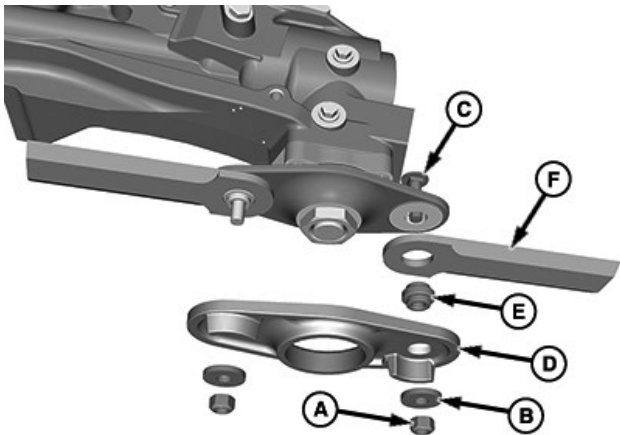
1. Remove lock nuts (A), washers (B), cap screws (C), lower mounting plate (D), bushings (E), and chopping blades (F).
2. Flip or replace blades.
3. Inspect all hardware and bushings for excessive wear or damage and replace as necessary. Lock nuts can be reused when flipping blades. Lock nuts must be replaced when replacing knives.
4. Install components in reverse order of removal. Tighten to specification.

Specification

Chopping Blade Cap Screws—Torque.	87 N·m (64 lb·ft)
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KR43067,00005B1-19-19APR18

Remove and Install StalkMaster™ Chopping Knife Blades



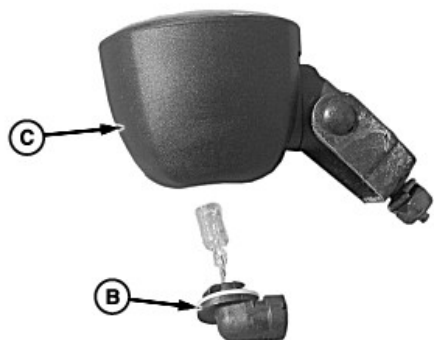
H96454—UN—12SEP17

- A—Lock Nut (2 used)
 B—Washer (2 used)
 C—Round-Head Cap Screw (2 used)
 D—Lower Mounting Plate
 E—Bushing (2 used)
 F—Chopping Blade (2 used)

Stubble Light Bulb Replacement



H120821—UN—22FEB17



1. Use flat-blade screwdriver to carefully pry off lens (A).
2. Push bulb (B) in and turn to remove.
3. Install new bulb.
4. Press previously removed lens back onto light housing.

KR43067,000038D-19-11MAY09

A—Stubble Light
B—Bulb Base
C—Housing

H94014—UN—13MAY09

1. Loosen stubble light (A) mounting hardware.
2. Disconnect wiring harness from light assembly.

IMPORTANT: Do NOT touch bulb with bare fingers, oil, or water.

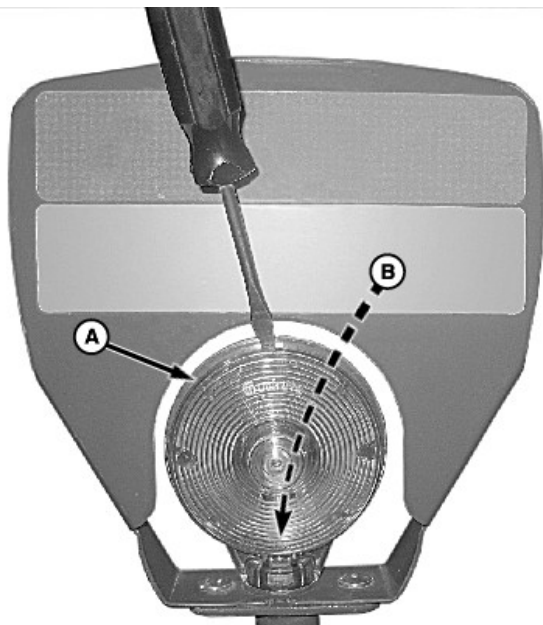
3. Rotate bulb base (B) to release it from housing (C).

NOTE: Bulb does not separate from base. Base and bulb assembly is replaced as one piece.

4. Install new bulb base into the housing.
5. Connect wiring harness, check alignment of light, and tighten mounting hardware.

AZ06166,0000139-19-24APR17

Header Warning Light Bulb Replacement



A—Lens
B—Bulb

H93046—UN—31OCT08

Troubleshooting

Corn Head

Most corn head operating problems can be traced to improper adjustment. The following troubleshooting chart may help when problems develop, by suggesting a probable cause and a recommended solution. When trying to solve a problem, verify the source does not come from somewhere other than where the problem exists.

Symptom	Problem	Solution
Loss of Ear Corn in the Field	Points tips set too high.	Adjust points so tips lightly touch ground when row unit skid plate is 1 inch above ground. When picking low hanging ears, raise front tip of gatherer points and run corn head with skids close to ground.
	Ground speed too fast or too slow.	Operate at a speed to meet field and ground conditions. Too much ground speed can bend stalks forward and cause ears to fall ahead of gatherer chains. Slow ground speed can cause gatherer chains to jerk stalks and snap off ears causing ears to slide off header. Operate at a speed where gatherer chains help guide stalks into stalk rolls.
	Not picking planter rows.	Follow planted rows to minimize ear loss.
	Row units not centered on rows.	Adjust corn head row spacing to equal row spacing of corn in field.
	Ears sliding out over gatherer chains.	Replace worn ear savers or install ear savers.
	Gatherer chain speed too fast or too slow.	Change speed of variable speed feeder house or adjust combine ground speed.
Ear Shelling at Stalk Rolls	Deck plates not adjusted correctly.	Adjust deck plates. Reduce gap between deck plates.
	Machine operating too high.	Raise point tip and run head lower.
Shelled Corn Coming Out Rear of Combine	Excessive trash intake from corn head.	Increase variable drive speed or fixed drive combine. Open deck plate spacing on corn head.
Ears Sliding Out Through the Throat	Ear savers worn out.	Replace ear savers.

Symptom	Problem	Solution
Pulling up Corn stalks	Deck plates set too close together.	Gradually open deck plates until stalks feed through rolls more freely.
	Traveling too fast for gatherer chain speed.	Slow down to meet crop conditions or increase row unit drive speed.
	Gatherer chain flights digging into cornstalk roots.	Lower point tip and run head higher.
	Corn too dry or down.	Remove ear savers.
	Worn stalk rolls.	Replace stalk rolls.
Plugging	Stalks breaking in stalk rolls or deck plates.	Adjust opening of deck plates. Also be sure deck plates are set equally and centered over center of rolls.
	Trash winds around stalk rolls.	Set trash knives closer to stalk rolls.
	Loose gathering chains.	Check gathering chain sprockets for wear. Adjust gatherer chain tension.
	Not picking planter rows.	Follow rows to minimize ear loss.
	Ground speed too fast, causing material to overrun corn head.	Operate at a speed to meet yield and ground conditions. Faster speed causes plugging.
	Material not flowing with auger.	Check auger housing for obstructions and roughness. Check auger for 22 mm (7/8 in.) clearance between auger flight and floor. Check auger for 6 mm (1/4 in.) clearance between auger flighting and stripper.
	Corn stalks plugging in gatherer throat opening.	Remove ear savers.
	Worn stalk rolls.	Replace worn stalk rolls.
Loss of Ear Corn From Weakened or Broken Stalks. Problem is Caused by Disease (Stalk Rot) or Insects (Corn Borers)	Contact of stalk with ear savers.	Remove ear savers.
	Ground speed too fast.	Reduce ground speed.
	Feeder house speed incorrect.	Find the correct speed for your conditions by trying different feeder house speeds.
	Worn stalk rolls.	Replace stalk rolls.

Active Header Control (AHC)

Symptom	Problem	Solution
Active Header Control (AHC) will Not Operate	Manual raise or lower does not work.	See your John Deere dealer.
	Active Header Control not enabled.	Enable desired Active Header Control mode.
	Feeder house to header connector not connected or loose.	Connect properly.
	Header sensor not properly connected or damaged.	Connect or repair sensor.
Active Header Control (AHC) Lowers but Will Not Raise	Defective Active Header Control relay or Active Header Control card.	See your John Deere dealer.
Active Header Control Raises but Will Not Lower	Defective Active Header Control relay or Active Header Control card.	See your John Deere dealer.
	Control shaft restricted.	Check for restriction.
	Auto drop rate valve closed.	Adjust in-line valve.
System Cycles or Hunts	Incorrect drop rate adjustment.	Adjust in-line valve.
	Incorrect accumulator setting.	See your combine Operators Manual.
System Fails Intermittently after Manually Raising Header Over Obstacle	System was deactivated.	To reactivate, press activation button in multifunction control handle.
Header Raises or Lowers Too Slow or Too Fast	Incorrect drop rate adjustment.	Adjust valve stack drop rate.
	In-line valve problem.	See your John Deere dealer.

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Storage

End of Season Service

1. Lower corn head onto feeder house safety stop, wooden blocks, or the ground.
2. Open end fenders, gatherer points, and deck covers (see Operating Corn Head section for procedures).

IMPORTANT: Do not use high pressure washer spray directly on bearings or any other area that might be damaged by water. High pressure water can get past most seals and cause damage. Dry these areas, then lube and run machine.

3. Clean the corn head thoroughly. Chaff and dirt will draw moisture and cause rust.
4. Check fluid levels on all gear cases and chain drives.
5. Lubricate corn head as outlined in Lubrication and Maintenance section of this manual. Grease the threads on adjusting bolts.
6. Paint all parts where paint is worn or chipped.
7. Use a polymer protectorate on gatherer points, deck covers, and end fenders.
8. Close all shields.
9. If possible, shelter the corn head in a dry place.
10. Order repair parts needed for next season.

StalkMaster™ Corn Heads Only:

- Clean all debris around chopping hub with wire brush and compressed air.
- Check fluid level on all chopping gear cases.

NOTE: See Check StalkMaster™ Gear Case Oil (if equipped) in Lubrication and Maintenance section of this manual.

- Lubricate chopping gear cases as outlined in Replace Oil in Chopping Gear Case in Lubrication and Maintenance section of this manual.
- Protect inside surface of chopping hub with corrosion protective spray (Protective spray TY22032 or equivalent is recommended).

SS43267,0000319-19-18NOV13

IMPORTANT: Do not spray high-pressure water directly onto bearings or any other area that can be damaged by water. High-pressure water can get past most seals and cause damage. Dry these areas, then lube and run machine.

2. Wash any dirt or debris off machine that accumulated during storage.
3. Adjust row unit, auger drive, and gatherer chains to proper tension (see Adjustments—Corn Head section of this manual).
4. Check fluid levels on all gear cases and chain drives.
5. Lubricate header as outlined in Lubrication and Maintenance section of this manual. Grease the threads of adjusting bolts.
6. Verify that all hardware is tightened to specification and all cotter pins are spread.
7. Close shields, fenders, and points.
8. Run header at half-speed for a few minutes. Check for overheating bearings, gear case leaks, or loose chains.
9. Calibrate header to the machine (see Calibration and Settings section of this manual).
10. Review your Operator's Manual.

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Beginning of Season Service

1. Open the end fenders, gatherer points, and deck covers (see Operating the Corn Head section of this manual).

Specifications

Specifications

NOTE: Specifications and design subject to change without notice.

Specifications given in the manual are intended for service only and do not include normal factory manufacturing tolerances.

Specifications	
Component	Description
Gatherer Points	Low profile floating-type, hinged above gatherer chains. Perma-Glide™ (polyethylene) material.
Shields and Outer Gatherers	Hinged, removable. Strut-assisted opening (shields). Perma-Glide™ (polyethylene) material.
Gatherer Chains	Heavy-duty, endless steel roller chain (no master connecting link). Integrated steel lugs.
Row Unit Drive	Enclosed gearbox with gears submerged in lubricant; driven by single input hex shaft with radial pin slip clutch.
Trash Knives	Full length, adjustable, one piece, heat-treated steel.
Slip Clutch	One per row unit. One per input driveshaft. One on auger drive.
Stalk Rolls	Opposed Stalk Rolls, Chopping Stalk Rolls, Intermeshing Stalk Rolls (one paired set per row unit).
Adjustments and Settings	Description
Gatherer Chain Adjustment	Spring-loaded, self-adjusting.
Deck Plate Adjustment	Hydraulically adjusted.
Gatherer Point Adjustment	Manually adjusted height, pin adjust and fine-tuning.
Minimum Clearance Between Gatherer Chains and Ground	32 mm (1-1/4 in.)

Perma-Glide is a trademark of Deere & Company

Approximate Overall Width		
Model	Header ID	Width m (ft - in)
706C and 706C-SM	6R70	4.6 m (15 ft - 1 in)
706C and 706C-SM	6R75	4.6 m (15 ft - 1 in)
706C and 706C-SM	6R30	4.8 m (15 ft - 9 in)
706C	6R36/38	5.8 m (19 ft)
708C and 708C-SM	8R70	6.1 m (20 ft - 2 in)
708C and 708C-SM	8R75	6.1 m (20 ft - 2 in)
708C and 708C-SM	8R30	6.4 m (20 ft - 10 in)
708C and 708C-SM	8R36/38	7.8 m (25 ft - 8 in)
712C-SM	12R70	9.2 m (30 ft - 2 in)
712C-SM	12R75	9.2 m (30 ft - 2 in)
712C	12R36	11.2 m (36 ft - 10 in)
712C	12R38	11.8 m (38 ft - 10 in)
712C and 712C-SM	12R20	6.6 m (21 ft - 8 in)
712C and 712C-SM	12R22	7.2 m (23 ft - 6 in)
712C and 712C-SM	12R30	9.4 m (30 ft - 10 in)
716C and 716C-SM	16R30	12.3 m (40 ft - 4 in)
718C and 718C-SM	18R20	9.5 m (31 ft - 2 in)
718C and 718C-SM	18R22	9.5 m (31 ft - 2 in)
Approximate Overall Depth (All Models)		
Points in Operating Position (lowered)		3.0 m (10 ft)
Points in Service Position (raised)		2.4 m (8 ft)

Approximate Field Weight of Corn Head		
Model	Header ID	Weight kg (lb)
Non-Chopping Corn Head:		
706C	6R70	1857 kg (4094 lb)
706C	6R75	1858 kg (4097 lb)

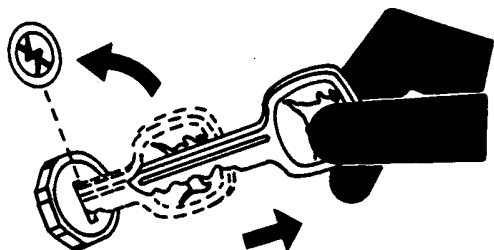
Specifications

Approximate Field Weight of Corn Head		
Model	Header ID	Weight kg (lb)
706C	6R30	1858 kg (4097 lb)
706C	6R36	1999 kg (4407 lb)
706C	6R38	2006 kg (4423 lb)
708C	8R70	2376 kg (5239 lb)
708C	8R75	2478 kg (5464 lb)
708C	8R30	2375 kg (5237 lb)
708C	8R36	2656 kg (5857 lb)
708C	8R38	2663 kg (5872 lb)
712C	12R20	3014 kg (6645 lb)
712C	12R22	3074 kg (6778 lb)
712C	12R30	3464 kg (7638 lb)
712C	12R36	4374 kg (9642 lb)
712C	12R38	4474 kg (9864 lb)
716C	16R30	4545 kg (10 019 lb)
718C	18R20	4423 kg (9753 lb)
718C	18R22	4520 kg (9967 lb)
Chopping Corn Head - StalkMaster™		
706C-SM	6R70	2090 kg (4608 lb)
706C-SM	6R75	2089 kg (4606 lb)
706C-SM	6R30	2084 kg (4595 lb)
708C-SM	8R70	2719 kg (5996 lb)
708C-SM	8R75	2712 kg (5980 lb)
708C-SM	8R30	2721 kg (6000 lb)
708C-SM	8R36	3412 kg (7522 lb)
708C-SM	8R38	3457 kg (7622 lb)
712C-SM	12R70	3858 kg (8506 lb)
712C-SM	12R75	3890 kg (8577 lb)
712C-SM	12R20	3446 kg (7598 lb)
712C-SM	12R22	3511 kg (7741 lb)
712C-SM	12R30	3921 kg (8645 lb)
716C-SM	16R30	5053 kg (11 142 lb)
718C-SM	18R20	4982 kg (10986 lb)
718C-SM	18R22	5082 kg (11 206 lb)

StalkMaster is a trademark of Deere & Company

MH69740,00007B7-19-13FEB19

Keep Machines Secure



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.

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.

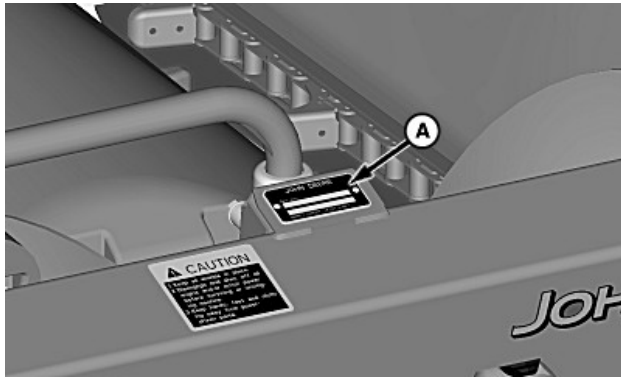
6. Notify your John Deere dealer of any losses.

1. Install vandal-proof devices.

TS230—UN—24MAY89

DX,SECURE2-19-18NOV03

Header Identification Number



H96466—UN—19MAY17

A—Header Identification Plate

Locate header identification plate (A) on base of the left-hand warning light bracket.

Record your corn head serial number in the space below. Give this serial number to your dealer when ordering parts.

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Keep Proof of Ownership



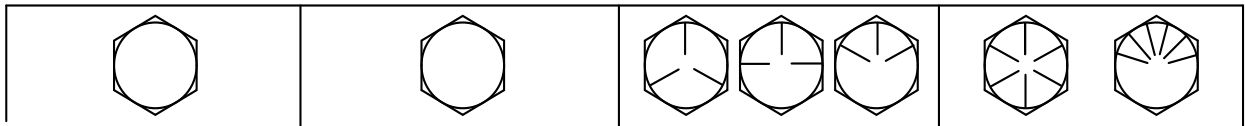
TS1680—UN—09DEC03

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

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

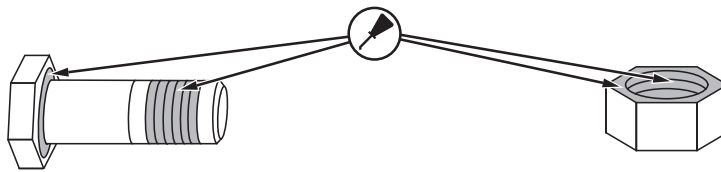
Specifications

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	
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

^aGrade 1 applies for hex cap screws over 6 in (152 mm) long, and for all other types of bolts and screws of any length.

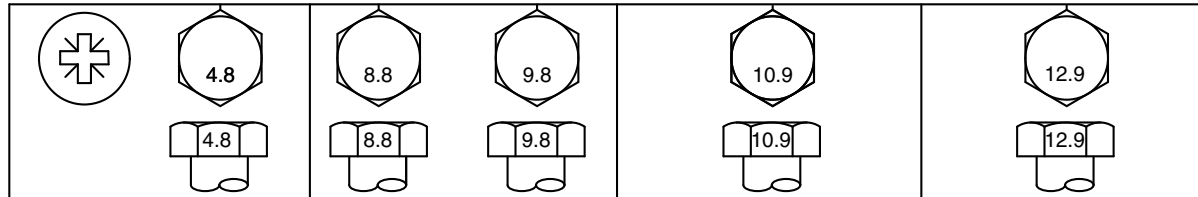
^bGrade 2 applies for hex cap screws (not hex bolts) up to 6 in (152 mm) long.

^cHex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.

^dHex 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

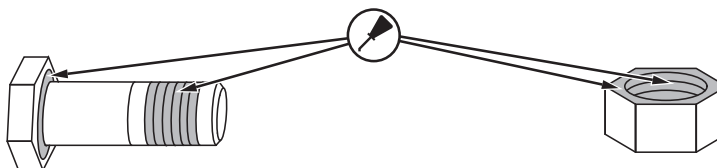
Specifications

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	
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.



TS1741—UN—22MAY18

^aHex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.

^bHex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX,TORQ2-19-30MAY18

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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

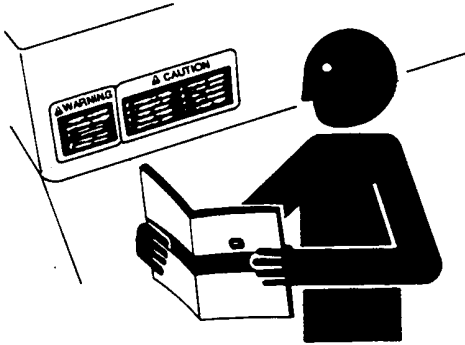
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- Agricultural Primer series covers technology in farming and ranching.
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John Deere Service Keeps You On The Job

John Deere Is At Your Service



TS201—UN—15APR13

CUSTOMER SATISFACTION is important to John Deere.

Our dealers strive to provide you with prompt, efficient parts and service:

- Maintenance and service parts to support your equipment.
- Trained service technicians and the necessary diagnostic and repair tools to service your equipment.

CUSTOMER SATISFACTION PROBLEM RESOLUTION PROCESS

Your John Deere dealer is dedicated to supporting your equipment and resolving any problem you may experience.

1. When contacting your dealer, be prepared with the following information:

- Machine model and product identification number
- Date of purchase
- Nature of problem

2. Discuss problem with dealer service manager.

3. If unable to resolve, explain problem to dealership manager and request assistance.

4. If you have a persistent problem your dealership is unable to resolve, ask your dealer to contact John Deere for assistance. Or contact the Ag Customer Assistance Center at 1-866-99DEERE (866-993-3373) or e-mail us at www.deere.com/en_US/ag/contactus/.

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