

BP15 Belt Pickup (North American Edition)

(Serial No. 815001 -)



JOHN DEERE

OPERATOR'S MANUAL

BP15 Belt Pickup

OMHXE160674 ISSUE H0 (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.

THE TIRE MANUFACTURER'S warranty applicable to your machine may not apply outside the U.S.

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,IFC2-19-03APR09

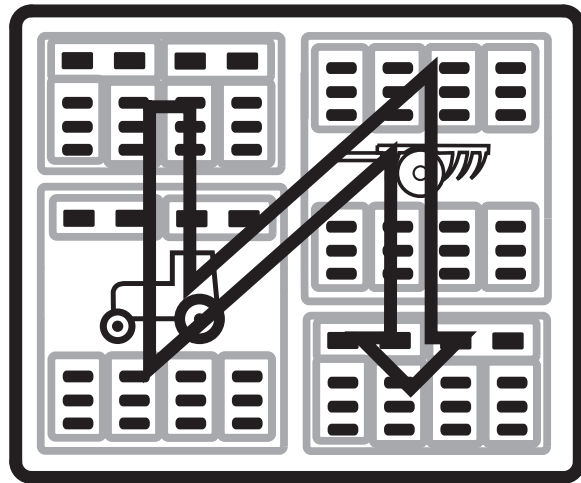
A Message to Our Customers

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.

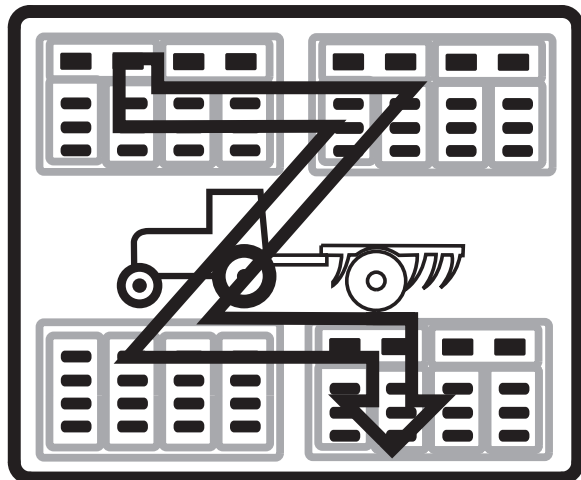
Information in this manual is divided into sections. The section names are identified in the table of contents and at the top of each page. Each section has a unique number and page count. Specific information within each section is organized into topics identified with bold headings.

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.

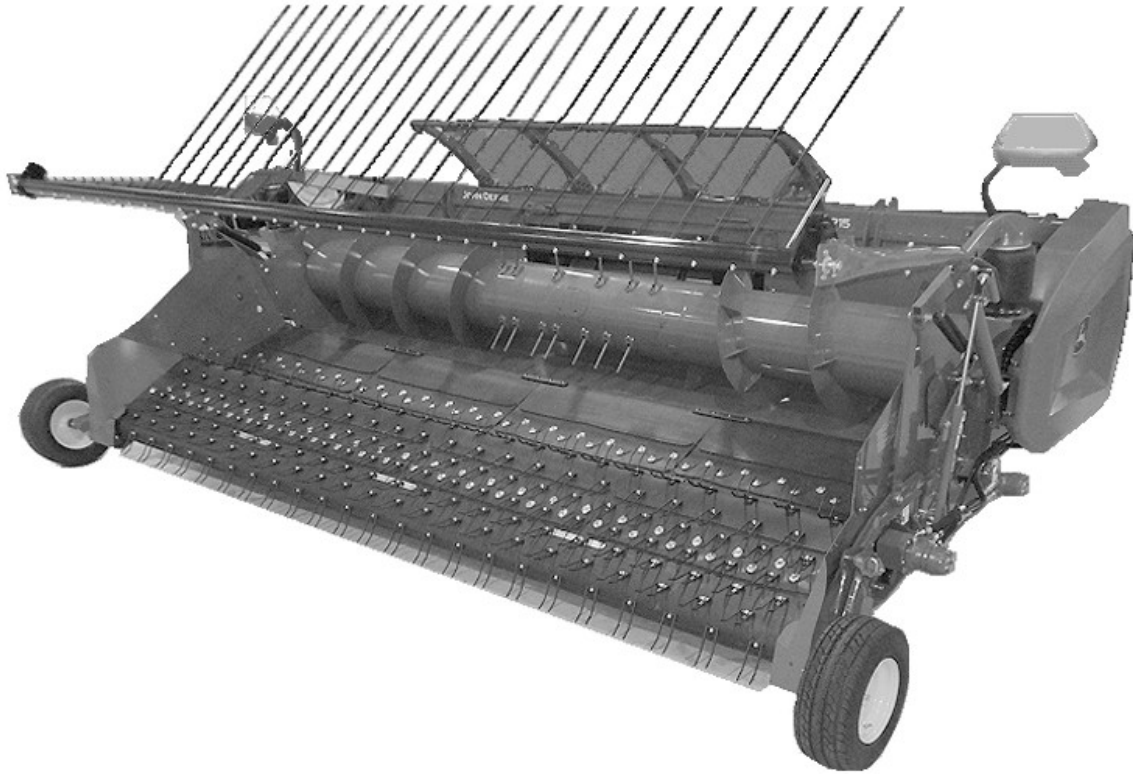
Introduction

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

Thanks again for purchasing this machine.

OUO6075,00049D4-19-08JUN18

Identification View



H126739—UN—29JUL19
OUO6041,0000E81-19-01AUG19

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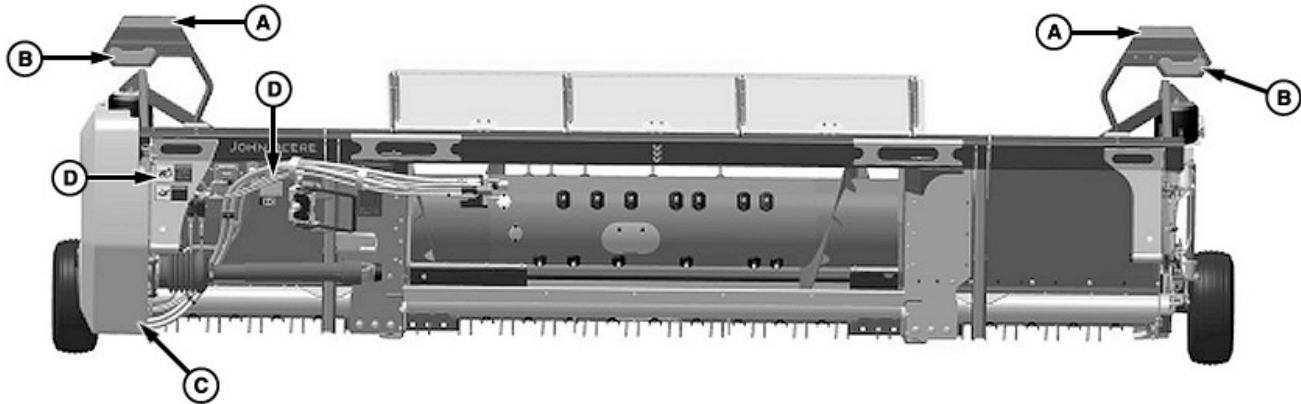
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Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety Features

Belt Pickup Safety Features



H130604—UN—23JUN20

A—Reflective Material
B—Warning Light

C—Side Shield
D—Safety Decals

In addition to the safety features shown here, safety signs on the belt pickup and the safety messages and

instructions in the Operator's Manual contribute to the safe operation of the belt pickup when combined with the care and concern of a capable operator.

OÜO6041,0000E89-19-23JUN20

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

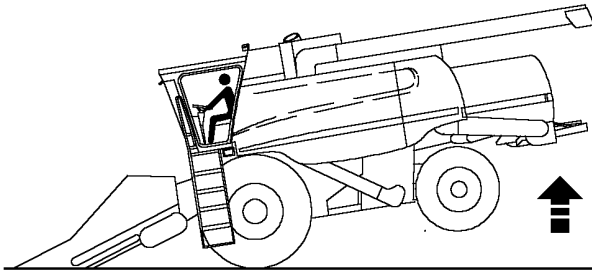


TS201—UN—15APR13

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.

OOU6075,0004A7E-19-12DEC18

Ballasting for Safe Ground Contact



H51907—UN—10FEB99

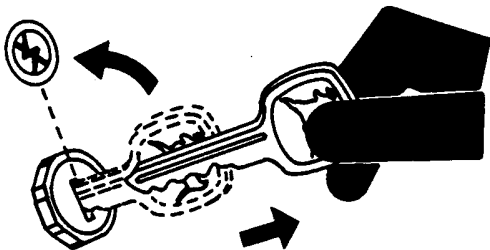
Operating, steering and braking performance of combine can be considerably affected by heavy front end attachments which alter the center of gravity of the combine.

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 the combine's front-end equipment to the ground.

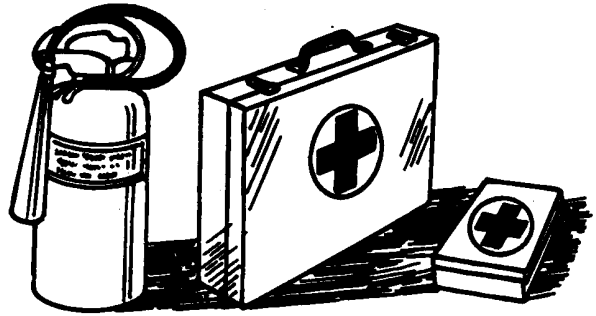
Before leaving the machine, disengage the belt pickup and separator. Move the multi-function lever to the neutral position and shut OFF the machine. Apply the park brake, remove key, and lock the operator's cab.

Never leave the machine unattended if the engine is running.

Never leave the operator's cab when driving.

D375S90,00001FE-19-24JUN20

Prepare for Emergencies



TS291—UN—15APR13

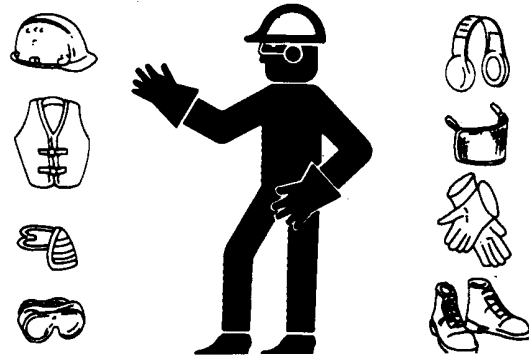
Be prepared if a fire starts.

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

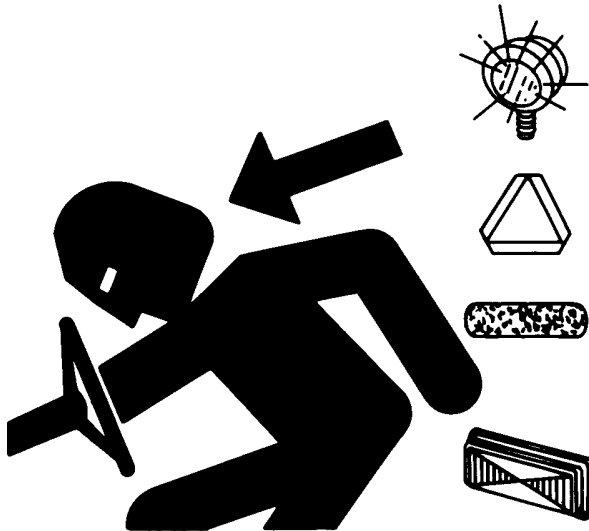


ES118704—UN—21MAR95

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

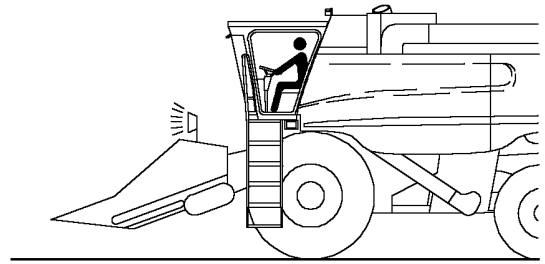


Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use turn signal lights.

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 Front-End Equipment Attached Safely



NOTE: Machines in the United States and Canada are equipped with belt pickup warning lights for roadway transport. All the machines outside of the United States and Canada are not equipped with the belt pickup warning lights. Machines not equipped with the belt pickup warning lights should not be driven on the roadway.

Whenever possible, avoid transporting on public roadways with the front-end equipment attached.

If the combine must be transported with the front-end equipment attached, make sure that the flashing warning lights on the belt pickup 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 the conditions.

D375S90,00001FF-19-30JUL20

Road Transport Disconnect Switch



Road Transport Disconnect (Style A)



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.

AZ06166,0000178-19-17APR17

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

Practice Safe Maintenance



TS218—UN—23AUG88

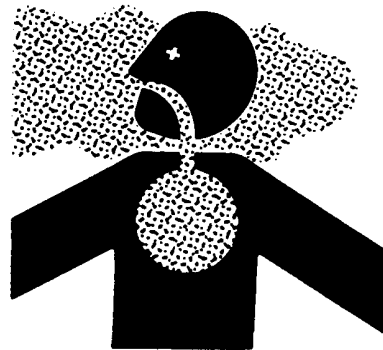
Understand service procedure before doing work. Keep area clean and dry.

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.

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

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

Avoid Contact With Moving Parts

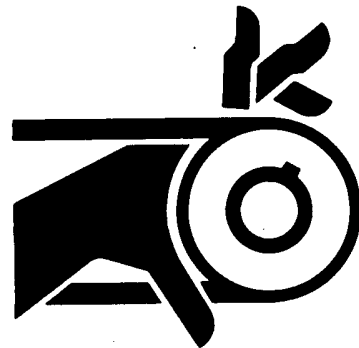


TS256—UN—23AUG88

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

JK22594,00000E3-19-15AUG06

Guards and Shields



TS285—UN—23AUG88

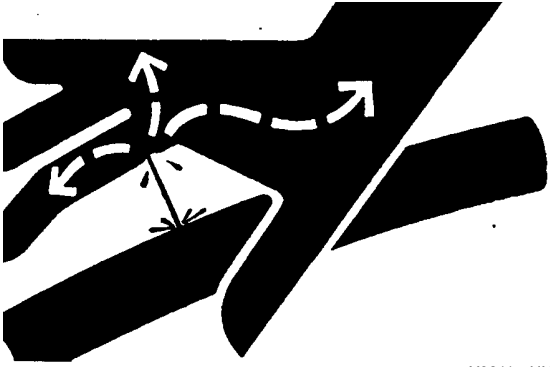
Keep guards and shields in place at all times. Ensure that they are serviceable and installed correctly.

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

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.

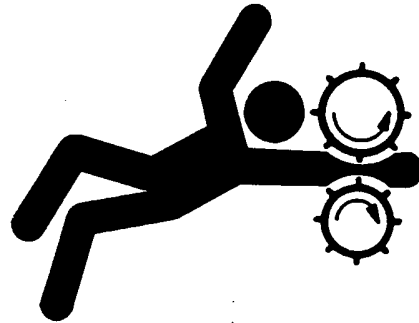
Relieve pressure from the pressurized system before removing accumulator.

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

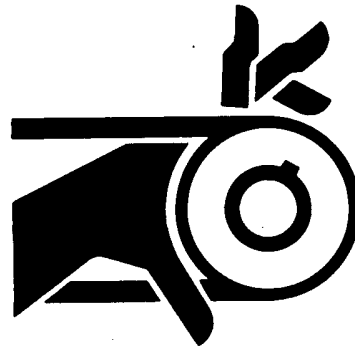
Service Accumulator Systems Safely



TS281—UN—15APR13

Escaping fluid or gas from systems with pressurized accumulators that are used in air conditioning,

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.

OUC6075.00026A4-19-06FEB03

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

Service Tires Safely



TS952—UN—15APR13

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

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

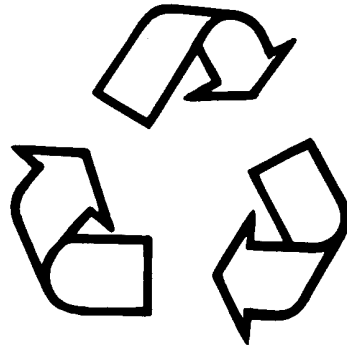
Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

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

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

DX,TIRECP-19-24AUG90

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

Store Attachments Safely



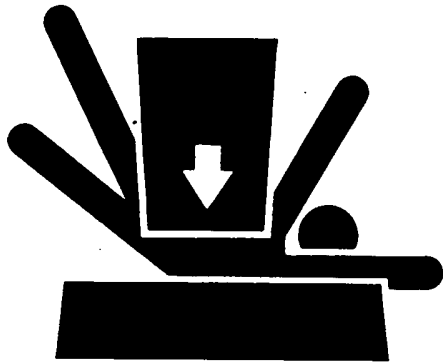
TS219—UN—23AUG88

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

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

DX,STORE-19-03MAR93

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.

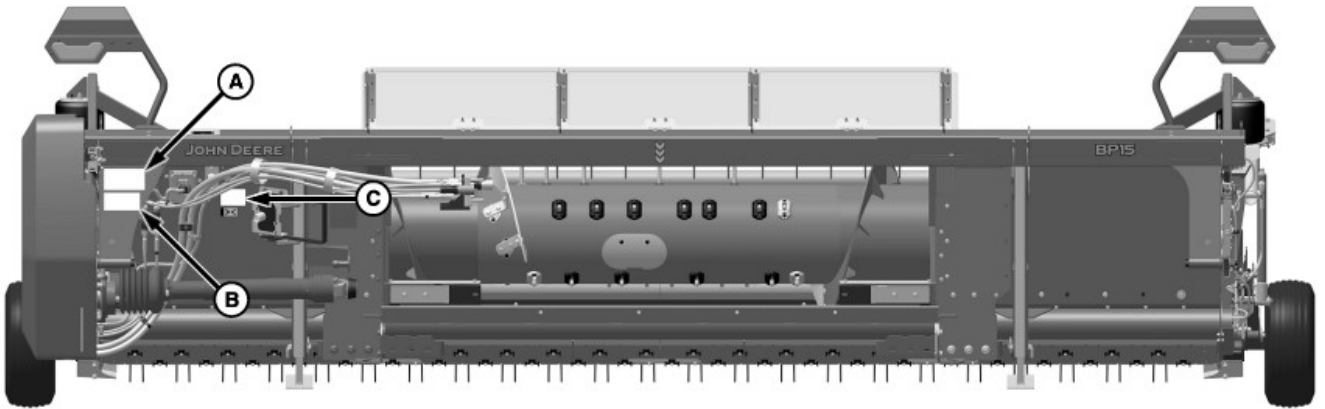
Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.

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

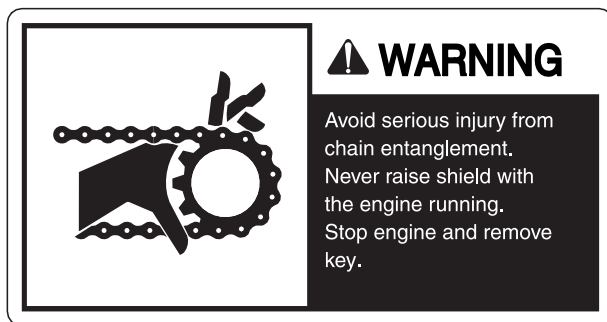
DX,LOWER-19-24FEB00

Safety Signs

Rear View Decals

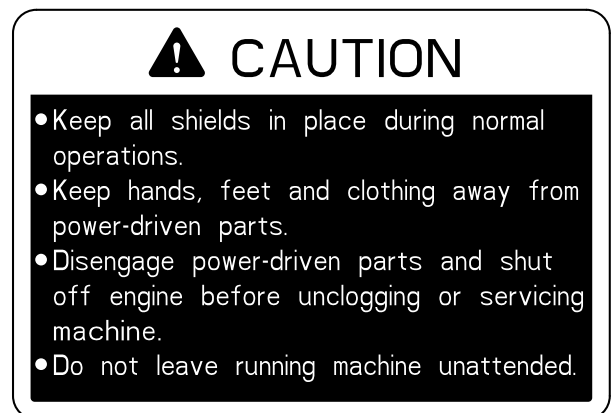


H130615—UN—24JUN20



SSHXE150650—19—23APR19

Decal A



SSHXE19649—19—07APR11

Decal C

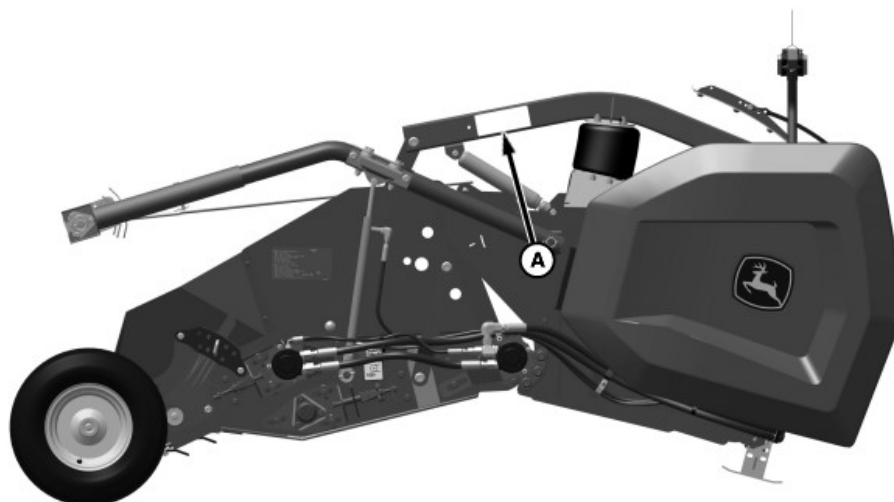


SSE82514A—19—10MAY18

Decal B

OOU6075,0004EA5-19-24JUN20

Side View Decals



H130616—UN—24JUN20

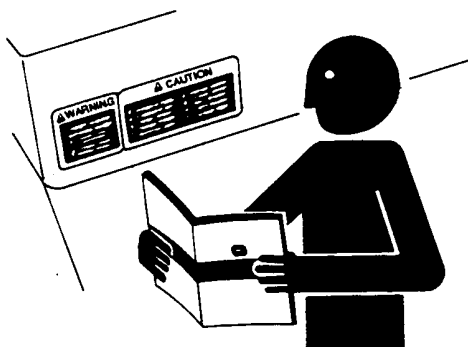


SSH215769—19—16JAN09

Decal A (located on both sides)

OUC6075,0004EA6-19-24JUN20

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 a Trailer

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

Road transportation is not homologated for most countries in the European Union and the Eurasian Economic Union. Please check with the local authorities for clarification on any roadway regulations and towing transport requirements. Check with local suppliers for trailer availability that meets local requirements.

When transporting the belt pickup on a trailer:

- Properly configure the trailer brackets and supports for the belt pickup being transported.
- Use fastening straps of adequate strength and quantity to secure the belt pickup to the trailer.
- Lower the windscreen before loading on the trailer.
- Fasten or tie down the universal drive line.
- Use a tow vehicle of adequate towing capacity and braking capabilities.
- Drive at a speed that is safe for conditions.

OUO6041,0000FC0-19-24JUN20

Transporting on Combine

1. Attach the belt pickup to the feeder house (see Attaching the Front-End Equipment to Combine in the Attaching and Detaching section).

CAUTION: When driving on public roads or highways at night or during the day, observe the local traffic regulations regarding the warning devices, lighting, and safety. See the Safety section for additional information.

Machines in the United States and Canada are equipped with belt pickup warning lights for roadway transport. All the machines outside of the United States and Canada are not equipped with the belt pickup warning lights. Machines not equipped with the belt pickup warning lights should not be driven on the roadway.

IMPORTANT: Whenever possible avoid transporting on public roadways with the belt pickup attached. If the combine must be transported with the belt pickup attached, make sure that the flashing warning lights on the belt pickup are operating and the 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.



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



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

2. Raise the belt pickup using the header raise/lower switch until sufficient ground clearance is achieved. Ensure that it does not obstruct the operator's view of the road.



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



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

3. Engage the road transport disconnect switch.

NOTE: Light is ON when the 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 the tail lights on both sides provide a warning to approaching vehicles. Warning lights must be turned ON when driving the combine on a public road.

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

Do not operate the flashing warning lights if prohibited by law.

4. Turn the hazard lights switch ON for all road travel.



Road Lights Switch

H127046—UN—26SEP19

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

OUO6041,0000F32-19-30JUL20

Attaching and Detaching

Multicoupler Electric Conversion (If Necessary)



31-Pin

H130268—UN—08JUL20



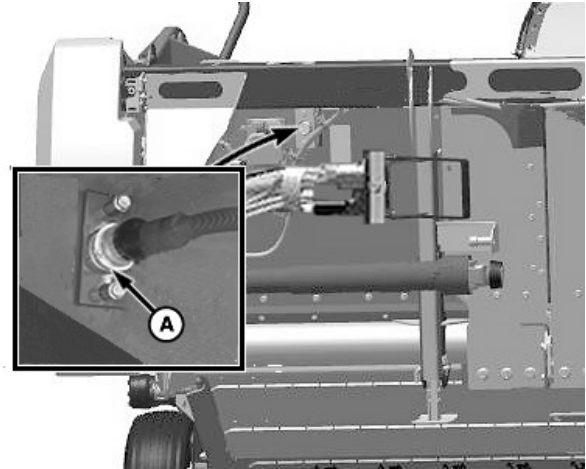
9-Pin

H130267—UN—08JUL20

NOTE: Only one electrical connector is used on the belt pickup multicoupler. The unused electrical connector is stored on the electrical connector bracket.

Verify that the belt pickup multicoupler connector matches the connector on the feeder house.

1. The combine type determines which multicoupler configuration to use.



H130798—UN—16JUL20

A—Electrical Connector Bracket

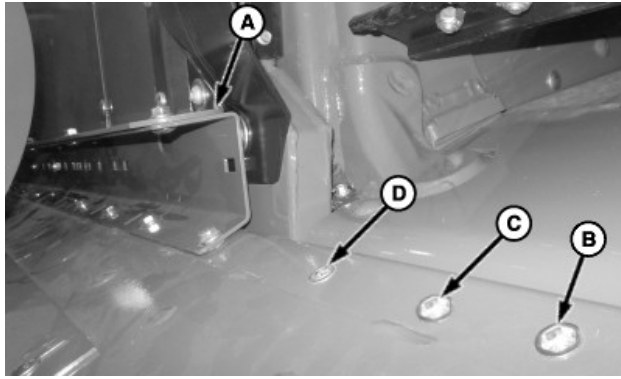
2. Attach the unused electrical connector to the electrical connector bracket (A).

OUC6041,0001138-19-16JUL20

Location of Rear Auger Stripper Extension

Location of Rear Auger Stripper Extension (without feeder house front drum deflectors)			Location of Rear Auger Stripper Extension (with feeder house front drum deflectors)		
Machine	Location	Auger Fingers	Machine	Location	Auger Fingers
Not Recommended	B	17 Used 3 Removed Right Side 2 Removed Left Side	S550 All Other 9560/70 STS Machines	B	17 Used 3 Removed Right Side 2 Removed Left Side
Not Recommended	C	19 Used 2 Removed Right Side 2 Removed Left Side	S660, S670, S680, and S690 All Other STS Machines	C	19 Used 2 Removed Right Side 2 Removed Left Side
9600 CWS, 9610 CWS, 9650 CWS, 9660 CWS, and 9660 WTS	D	23 Used All Fingers Installed	9600 CWS, 9610 CWS, 9650 CWS, 9660 CWS, and 9660 WTS	D	23 Used All Fingers Installed
Wide Body Walkers (T670 Wide Body Combine)	D	23 Used All Fingers Installed	Wide Body Walkers (T670 Wide Body Combine)	D	23 Used All Fingers Installed
X-Series	D	23 Used All Fingers Installed	X-Series	D	23 Used All Fingers Installed

NOTE: Verify that strippers are not obstructing the feeding area of the feeder house.



H126745—UN—16AUG19

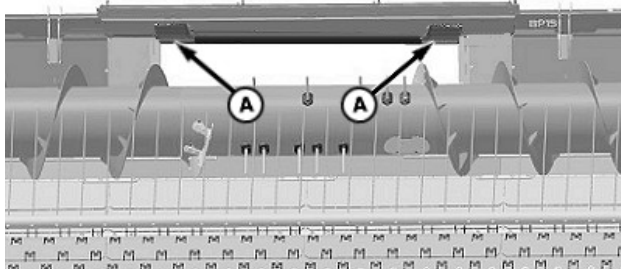
A—Stripper
B—Location
C—Location
D—Location

Auger strippers (A) can be positioned in three different locations (B), (C), and (D). Correct stripper position ensures good crop feeding.

NOTE: Auger flight extensions should be removed for T670 Wide Body and X-Series Combines.

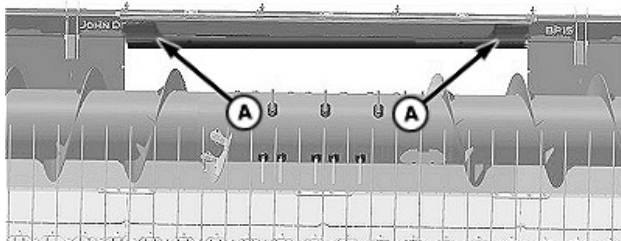
OOU6041,0000E86-19-15JUL20

Attaching Front-End Equipment to Combine



H128788—UN—11FEB20

S-Series



H128789—UN—11FEB20

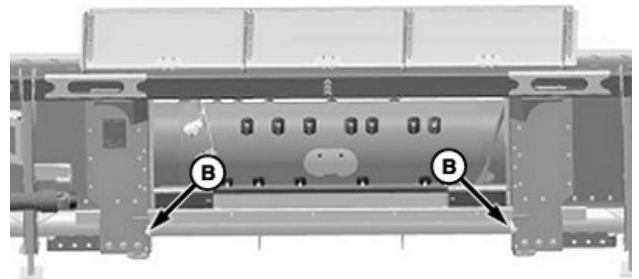
X-Series

A—Hook (2 used)

IMPORTANT: See your combine Operator's Manual for specific tires required when operating the belt pickup. Latch pins are not to be actuated with the belt pickup on the ground. If the multicoupler must be actuated with the belt pickup on the ground, unhook the cable from the handle.

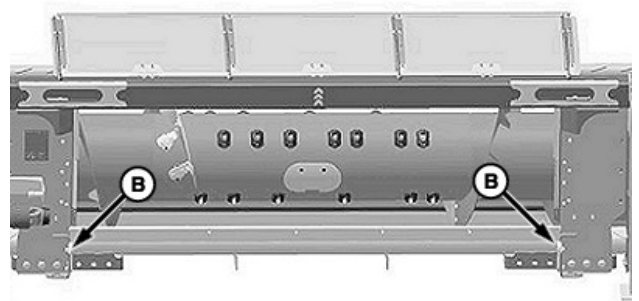
NOTE: Additional adapter plates are required when attaching the belt pickup to an S-Series Combine. Ensure that the correct plates are installed before attaching.

1. Sound horn, start engine, and lower feeder house.
2. Slowly drive the combine forward until the feeder house is centered in the 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 belt pickup.



H128790—UN—11FEB20

S-Series

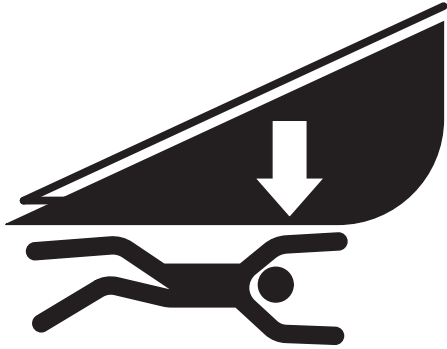


H128791—UN—13FEB20

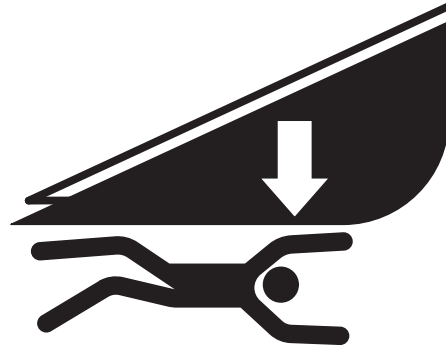
X-Series

B—Latch Hole (2 used)

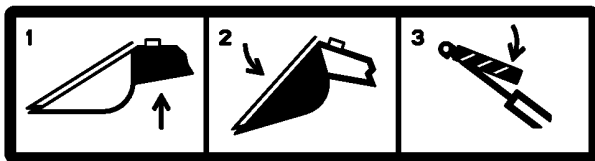
4. Completely raise the belt pickup and verify that the lower latch pins are aligned with the latch holes (B) on the belt pickup.



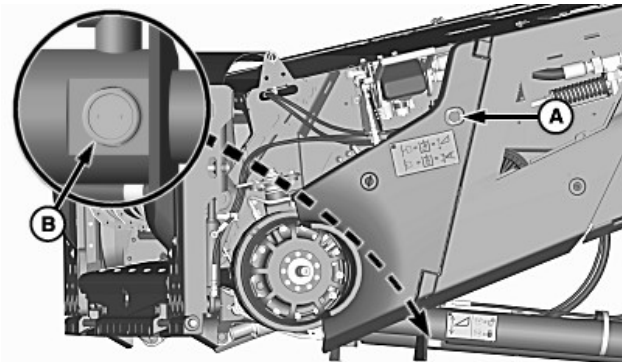
H121063—UN—14MAR17



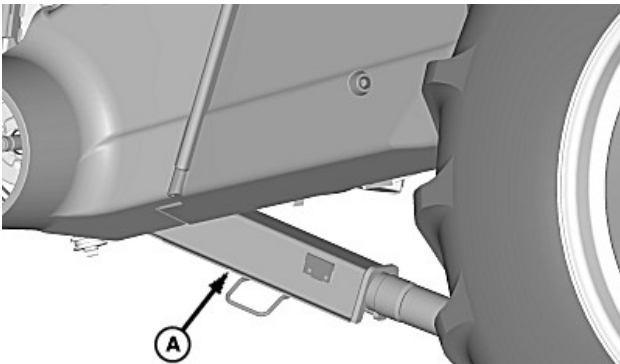
H121063—UN—14MAR17



H112829—UN—18FEB15



H126621—UN—27JAN20



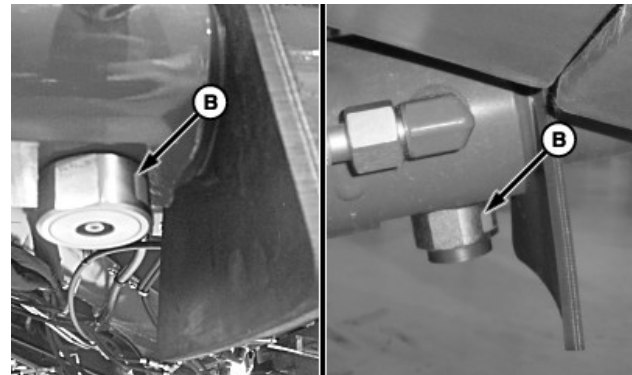
H90891—UN—26FEB08

A—Safety Stop

5. Depending on the machine type, engage the feeder house safety stop.

CAUTION: Cracking of the hydraulic line fittings to lower the feeder house results in an instantaneous dropping of the feeder house and the belt pickup.

- a. **Feeder House Safety Stop (S-Series)—** Completely raise the feeder house.
- b. Engage safety stop (A).
- c. Shut OFF engine, set park brake, and remove key.



H127632—UN—01OCT19

A—Lock Button

B—Lock Indicator

- a. **Feeder House Safety Stop (X-Series)—** Raise the feeder house and tilt the hydraulic feeder house fore/aft tilt frame as needed.

CAUTION: To prevent injury, after engaging the feeder house lock, support the feeder house with solid blocking before performing non-routine service or maintenance items underneath the feeder house or belt pickup.

NOTE: The feeder house is equipped with a hydraulic locking system. When locked, the feeder house will not raise or lower and the fore/aft frame will not tilt.

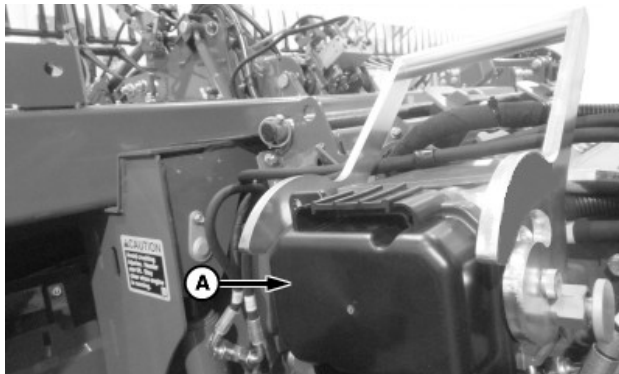
When the feeder house lift cylinder lock button is pulled out, the safety lock indicator (B) may show red. Verify that the safety lock indicator is NOT red before going under the feeder house.

- b. Push the feeder house safety lock button (A) to lock the feeder house lift cylinder position and the fore/aft tilt cylinder position.
- c. Shut OFF engine, set park brake, and remove key.

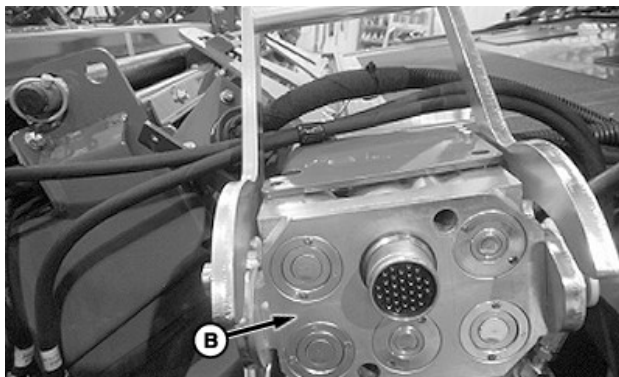
NOTE: Hydraulic pressure is required to disengage the safety lock.

- d. Pull the feeder house safety lock button to disengage the safety lock.
 - e. Raise the feeder house until the safety lock indicator extends, and lower the feeder house as needed.
6. Depending on the machine type, open cover (A) and clean multicoupler face (B).

Multicoupler Face (S-Series)



H128330—UN—10DEC19

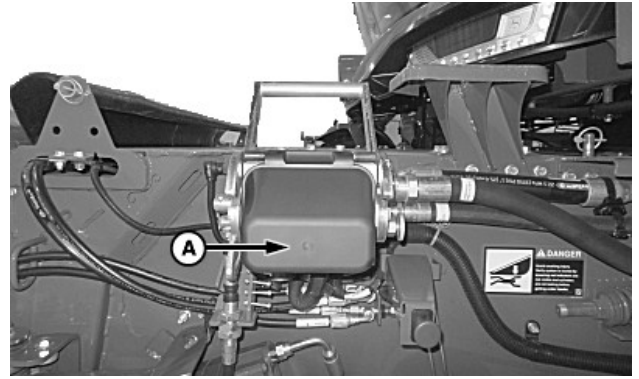


H128331—UN—10DEC19

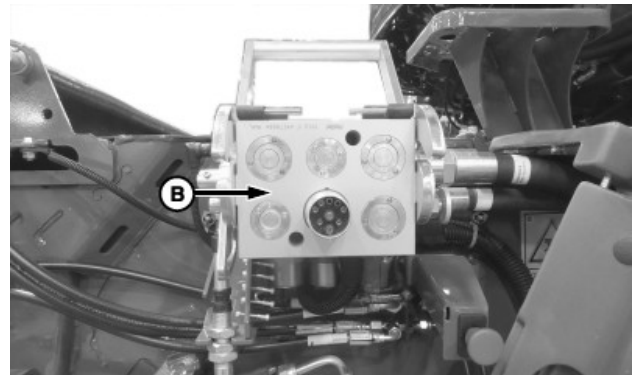
31-Pin Connection

A—Multicoupler Cover
B—Multicoupler Face

Multicoupler Face (X-Series)



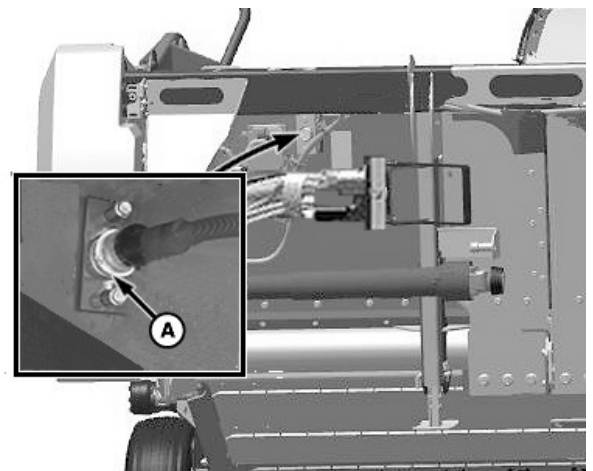
H128332—UN—10DEC19



H128333—UN—10DEC19

9-Pin Connection

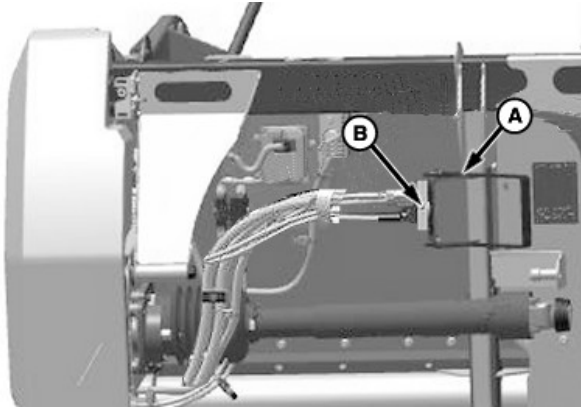
A—Multicoupler Cover
B—Multicoupler Face, 9-Pin



H130798—UN—16JUL20

A—Electrical Connector Bracket

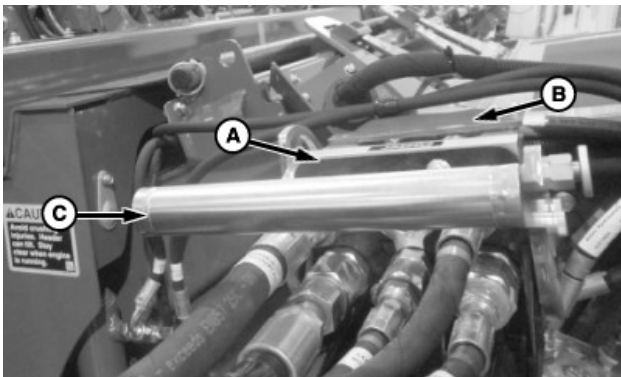
7. Verify that the unused electrical connector is attached to the electrical connector bracket (A).



H130796—UN—16JUL20

A—Handle
B—Multicoupler

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



H126439—UN—15JUL19

A—Multicoupler
B—Receptacle
C—Handle

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

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

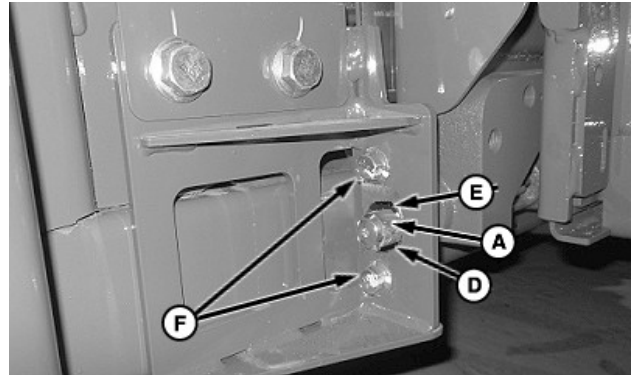


H126445—UN—15JUL19

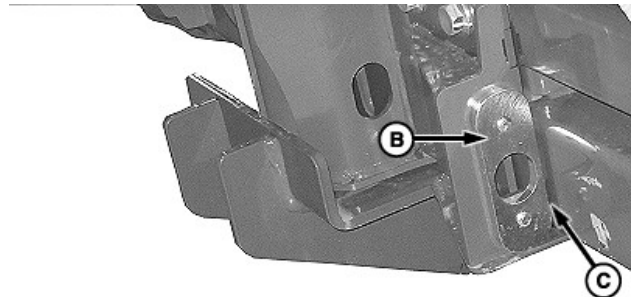
A—Knob

IMPORTANT: Failure to close the multicoupler fully so the knob can engage could result in the belt pickup falling off while harvesting or transporting.

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



H126440—UN—26AUG19



H126364—UN—27AUG19

A—Latch Pin
B—Latch Plate
C—Frame
D—Lower Gap
E—Upper Gap
F—Cap Screw (2 used)

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

S-Series and X-Series machines use different lower attachment points. S-Series lower latch plates and upper lead-in plates must be installed when operating the belt pickup on an S-Series machine.

11. Latch pins (A) should move freely through the latch plate holes in the belt pickup when the multicoupler is latched. Latch plate (B) must contact the frame (C). Less clearance should be maintained between lower gap (D) of the plate and the latch pin rather than upper gap (E) of the plate and latch pin. 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.

Tighten the cap screws to specification.

Specification

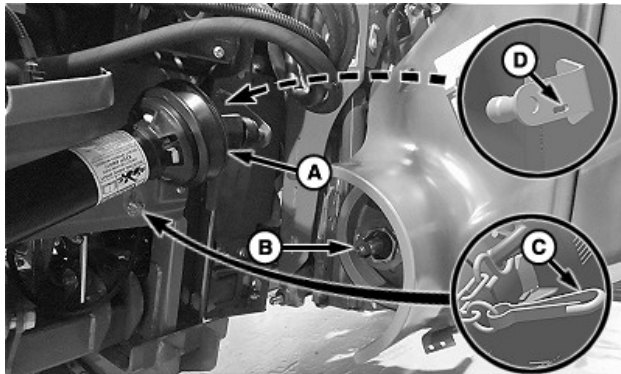
Latch Plate Mounting	
Cap—Torque	130 N·m (96 lb·ft)



H89283—UN—14JAN09

A—Cover

12. Install multicoupler cover (A) on storage position bracket.



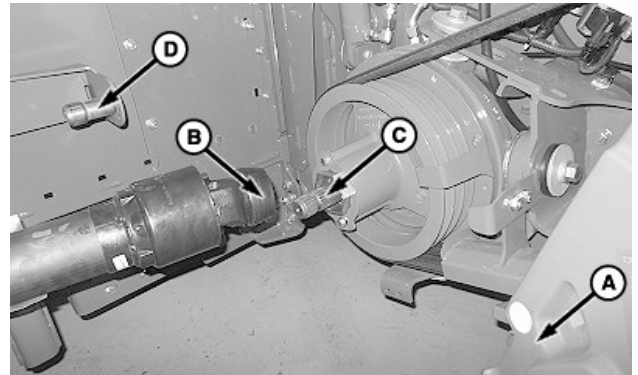
H128640—UN—27JAN20

A—Telescoping Driveshaft
B—Feeder House Shaft
C—Anti-Rotation Hook
D—Slot

13. Remove telescoping driveshaft (A) from the storage position and connect to the feeder house shaft (B). Verify that the quick-attach collar fully locks.
14. Attach the anti-rotation hook (C) to slot (D).

OUO6041,0000FF1-19-16JUL20

Detaching Front-End Equipment from Combine

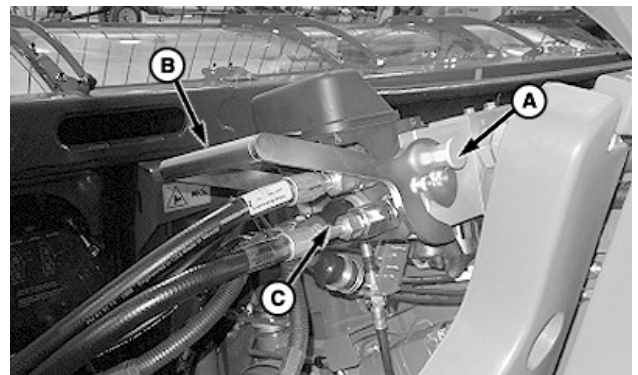


H126792—UN—17JUN20

A—Feeder House Shield
B—Locking Collar
C—Feeder House Shaft
D—Storage Bracket

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

1. Open the feeder house shield (A).
2. Disconnect the telescoping driveshaft at the locking collar (B) from the feeder house shaft (C) and place on the storage bracket (D).
3. Close the feeder house shield.



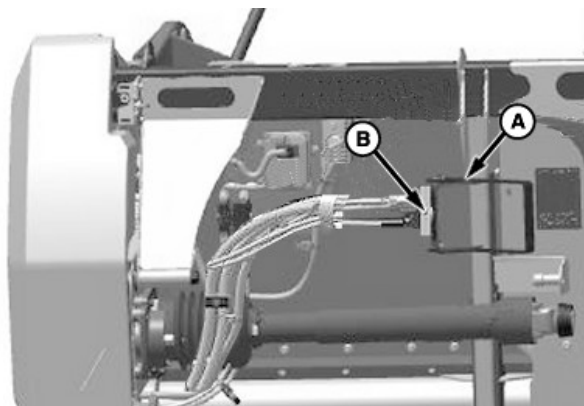
H126793—UN—31JUL19

A—Knob
B—Handle
C—Multicoupler

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

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

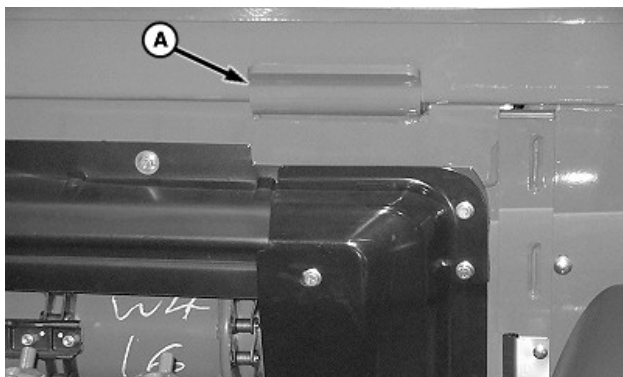
4. Pull and hold knob (A) to release the lock while raising handle (B) and remove multicoupler (C) from the feeder house receptacle.



H130796—UN—16JUL20

A—Handle
B—Multicoupler

5. Raise handle (A).
6. Install multicoupler (B) in the storage position and lock in place using the handle.



H126746—UN—29JUL19

A—Hook (2 used)

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

OUO6041,0000E88-19-16JUL20

Calibration and Settings

When to Calibrate

NOTE: All Calibration: See calibrations for the belt pickup in your combine Operator's Manual.

Initial use of the belt pickup on X-Series and S-Series machines requires calibrations to be completed.

Connecting to different S-Series machines requires recalibration of the belt pickup. When connected to an S-Series Combine, the general belt pickup calibrations must be performed.

Calibration procedures must be performed before first use and after any sensor or associated components have been replaced.

- Header Calibration
- Lateral Tilt Angle Sensor Calibration (if equipped)
- Raise/Lower Speed Calibration (only when attached to a new belt pickup)

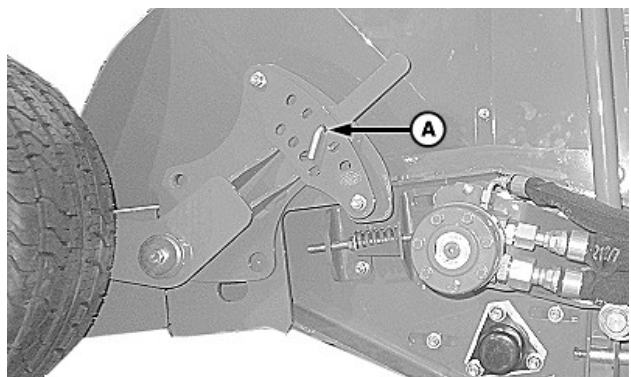
NOTE: Conditions causing errors must be corrected before continuing calibration.

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

- CommandCenter™ Display

OUC6041,0000FC1-19-24JUN20

Before Calibration



H128462—UN—28JAN20

A—Middle Adjustment

1. Before calibration is attempted, verify that the air spring pressure is set and the feeder face is adjusted correctly.
2. Raise the feeder house until the belt pickup height gauge wheels are off the ground.
3. Adjust the belt pickup height gauge wheel to the middle adjustment (A).

4. Repeat on the opposite side of the belt pickup height gauge wheel.

OUC6041,0000FC2-19-17JUN20

Calibration Error Codes

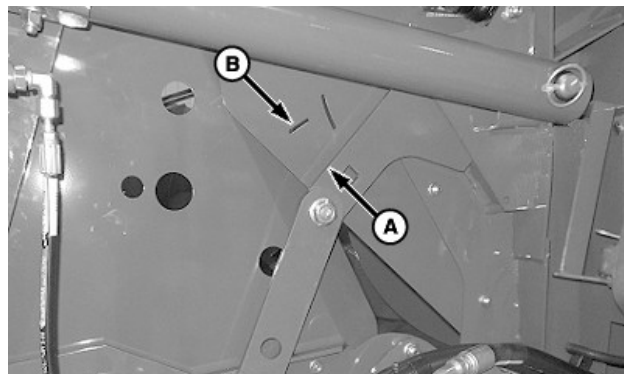
IMPORTANT: The condition or conditions causing the error code must be corrected before the calibration procedure can continue.

NOTE: Fault codes on X-Series machines have now been replaced with operator-facing text that indicates what causes a calibration to fail. S-Series machines continue to display traditional fault codes.

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

OUC6041,0000FEC-19-24JUN20

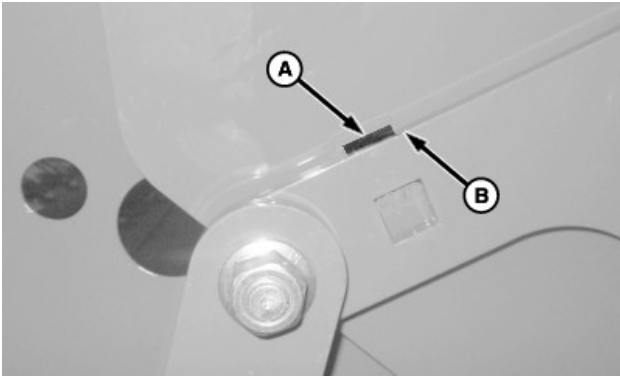
Air Spring Setup (Prior to Belt Pickup Calibration)



H126654—UN—07AUG19

**A—Upper Stop Link
B—Adjustment Gauge**

1. Raise the feeder house until the belt pickup height gauge wheels are off the ground.
2. Push each belt pickup height gauge wheel down and release slowly.
3. Verify that the top edge of upper stop link (A) aligns with adjustment gauge (B).



A—Adjustment Gauge
B—Upper Stop Link

H128463—UN—29JAN20

4. Add or remove air so the adjustment gauge (A) is at the top of the upper stop link (B).
 - Too much air is added if adjustment gauge (A) is BELOW the upper stop link (B).
 - Not enough air is added if adjustment gauge (A) is ABOVE the upper stop link (B).
5. After air is added or removed, push down and release each belt pickup height gauge wheel and recheck the position.

NOTE: Adding or removing large amounts of air from one side affects the other side. Roughly adjust both sides before the final adjustment.

Typically, the air spring setup is performed at the beginning of each season. After extended periods of time (six weeks), air may need to be added.

This procedure is performed to ensure correct belt pickup calibration.

OUC6041,0000FF6-19-18JUN20

User Calibration Procedures (Generation 3 CommandCenter™ Display)

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

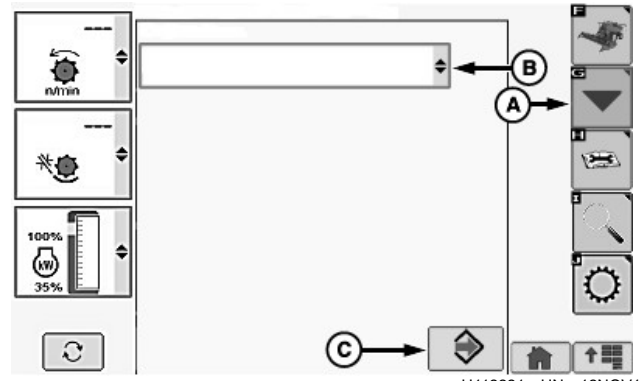
IMPORTANT: Before performing header calibration:

- Completely raise the belt pickup.
- Unlock and lower the auxiliary sensor arms, if equipped (see Automatic Header Height Control in Operating the Belt Pickup section).



Diagnostic Icon

H94478—UN—31MAR10



H112221—UN—12NOV14

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

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

1. Highlight the 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. Select the desired calibration and press the confirm switch.
5. Highlight the Enter/Accept icon (C) and press the confirm switch.
6. Follow the instructions shown on the screen to perform the desired calibration.
7. Repeat the procedure as necessary for additional calibrations.

OUC6041,0000FF4-19-24JUN20

User Calibration Procedures (Generation 4 CommandCenter™ Display)

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

CommandCenter is a trademark of Deere & Company

screen. Operator selects the diagnostics menu, selects desired calibration, and follows instructions given.



Menu Icon

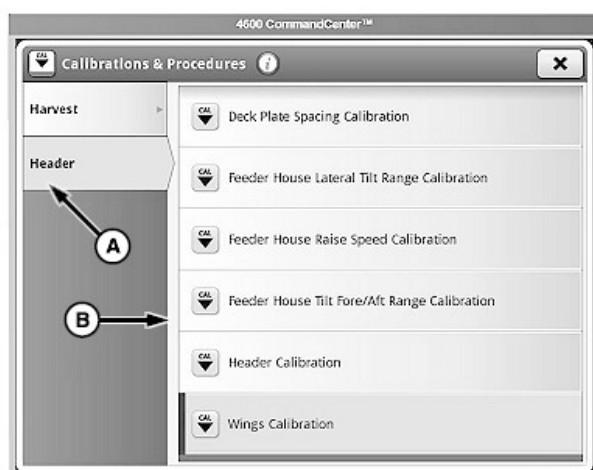
PC17269—UN—15JUL13

1. Press the Menu icon.



N119098—UN—25MAY16

2. Press the Calibrations & Procedures icon.



H128836—UN—05FEB20

A—Header Option
B—Menu

3. Highlight Header option (A) to view available calibrations.
4. Select the desired calibration from menu (B).



Calibrate Icon

H128880—UN—05FEB20

5. Select the Calibrate icon.
6. Follow the instructions shown on the screen to perform desired calibration.
7. Repeat the procedure as necessary for additional calibrations.

OUC6041,0000FF5-19-18JUN20

Adjusting Feeder House Drop Rate and Sensitivity



H99167—UN—23NOV10

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 the belt pickup 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.



H99167—UN—23NOV10

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

CommandCenter is a trademark of Deere & Company

Manual Raise/Lower Speed (Manual Functions):

Controls the response rate of the belt pickup 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.

AZ06166,0000181-19-16JUL20

Operating the Belt Pickup

General Information

The strength of a belt pickup is its ability to supply consistent crop delivery to the combine. Like most machines, crop conditions and machine adjustments directly influence a belt pickup's performance. The following general guidelines are provided to increase an operator's awareness of factors that affect belt pickup performance and to help determine initial settings.

Later in this section, additional specific guidelines are given to help with setting the belt pickup for certain adverse or unique crops or conditions.

OOU6041,0000FC6-19-24JUN20

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 drapers 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)

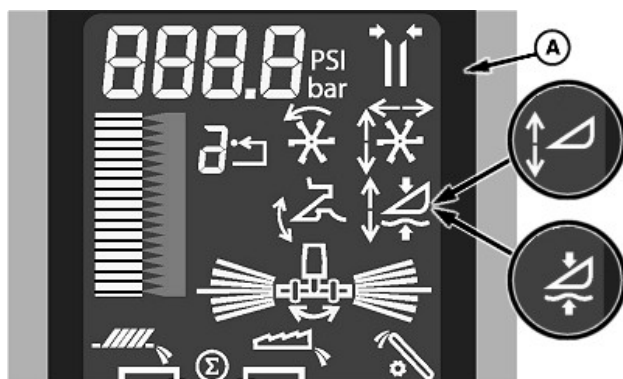
NOTE: For machines equipped with the Generation 4 CommandCenter™ Display, see Combine Overview Application Help or Operator's Station Help for further information.

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

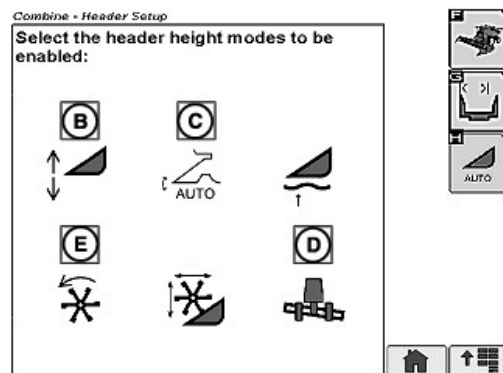
D375S90,0000204-19-24JUN20

CommandCenter is a trademark of Deere & Company

Active Header Control Display—Features



H100107—UN—08FEB11



H130605—UN—25JUN20

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 currently active by highlighting appropriate icon on display.

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

IMPORTANT: Performing any belt pickup calibration may automatically enable all belt pickup modes discussed below.

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

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

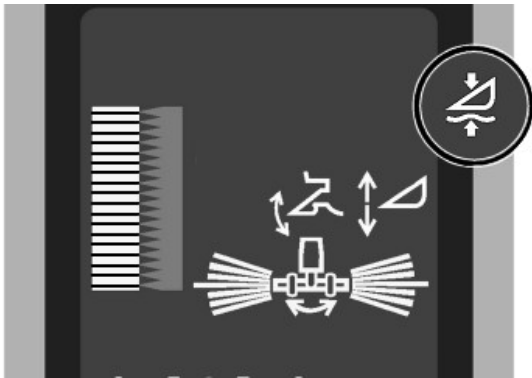
Lateral Tilt Button (D): Allows the operator to maintain the belt pickup position relative to the ground. Sensors are used to determine the height at each end of the belt

pickup. The belt pickup is tilted at the feeder house to equalize the distance to the ground at each end. If equipped with Belt Pickup Height Sensing—HydraFlex™ (optional), the two systems work together to maintain the closest position of the cutterbar relative to the ground.

Auto Reel/Belt Speed Button (E): Allows the operator to select an automatic operating speed for the reel or belt pickup belts. Operating speed is a ratio of the machine ground speed to the reel/belt speed.

OUO6041,0000FC7-19-16JUL20

Description of Automatic Header Height Control Systems



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 control the horizontal and vertical position of the belt pickup. The system continuously compares the preset position and the actual position, thus keeping the belt pickup in the desired working position. Values are entered by the response rate adjust and sensitivity adjust, along with the selection dial on the armrest.

System Requirements:

- Road transport disconnect switch must be in the field position.
- Engine is running.
- Belt pickup is engaged.
- Desired belt pickup control mode is activated.

Lateral Tilt Adjustment—Two Modes

- Manual Adjust — hydraulic components are directly activated by the multi-function lever.
- Automatic Adjust—parallel adjustments of the belt pickup in relation to the ground are carried out by

sensors on each end of the belt pickup. This ensures that the distance between the belt pickup and the ground is equal on both the left-hand and right-hand sides.

Header Height Adjustment—Three Modes

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

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

OUO6041,0000FC8-19-16JUL20

Pickup Speed



A—Auto Reel/Belt Speed Dial

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

Successful operation depends largely upon the speed and pitch of the belt pickup. Belt speed can be varied (50—700 rpm) from inside the cab.

- Belt Speed Too Fast—windrow is torn apart as it elevates onto the belt pickup.
- Belt Speed Too Slow—crop is pushed ahead of the belt pickup.

With Auto Reel/Belt Speed Engaged on the CommandCenter™ Display:

- Increase the belt speed: Rotate the Auto Reel/Belt Speed dial (A) clockwise.

- Decrease the belt speed: Rotate the Auto Reel/Belt Speed dial (A) counterclockwise.

OJ06041,0000FC9-19-24JUN20

Pickup Height

If the pitch is altered considerably, check the distance between the pickup fingers and the ground. Operate the belt pickup just low enough to allow the pickup fingers to gather in all the crop, but high enough so the fingers do not dig into the ground.

OJ06041,0000FDD-19-18JUN20

Pickup Pitch

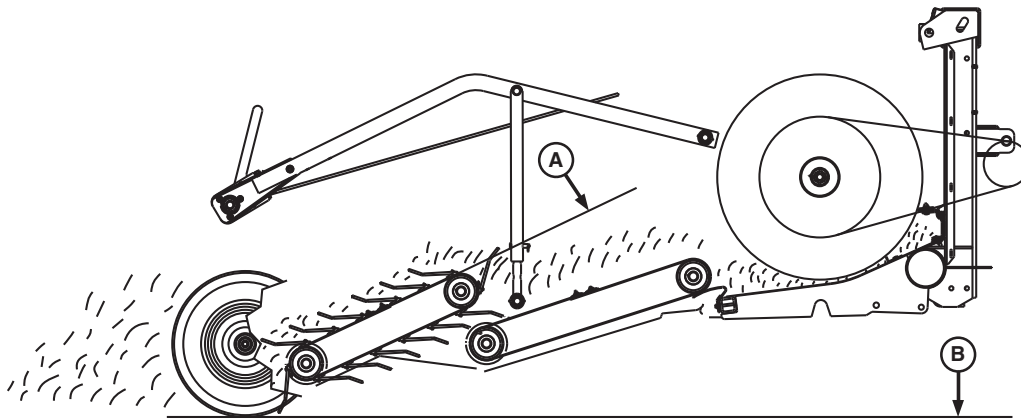
In addition to proper speed, correct pitch of the belt pickup is important for good pickup operation.

By raising or lowering the belt pickup, the pitch can be changed for varying field and crop conditions. Raise the belt pickup to increase the pitch; lower the belt pickup to decrease the pitch.

If the pitch is altered considerably, check the distance between the pickup fingers and the ground.

OJ06041,0000FDE-19-08JUL20

Pickup Pitch (Normal Windrow Condition)



H83158—UN—28APR05

A—Pitch Line

If ground conditions are normal and windrow is lying on

B—Ground Line

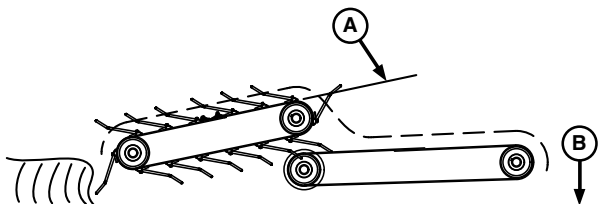
top of stubble and off the ground, operate front belt at a 20—25° angle.

D375S90,0000205-19-24JUN20

Pickup Pitch (Poor Windrow Condition)

if windrow is lying on ground, decrease the pitch (A) of pickup. This lets more fingers come closer to ground (B), for better combing action.

AZ06166,000019E-19-17APR17



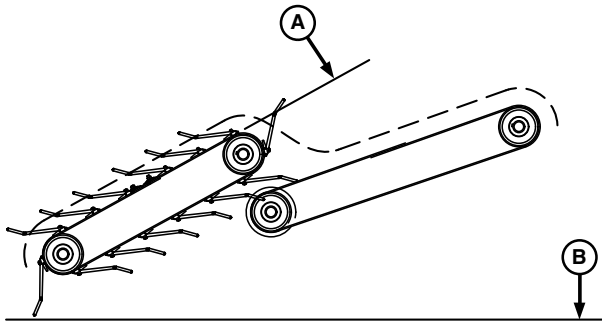
H81346—UN—20JUL04

A—Pitch Line

B—Ground Line

If windrow is embedded in stubble, if stubble is short, or

Pickup Pitch (Rocky Conditions)



H81347—UN—20JUL04

A—Pitch Line
B—Ground Line

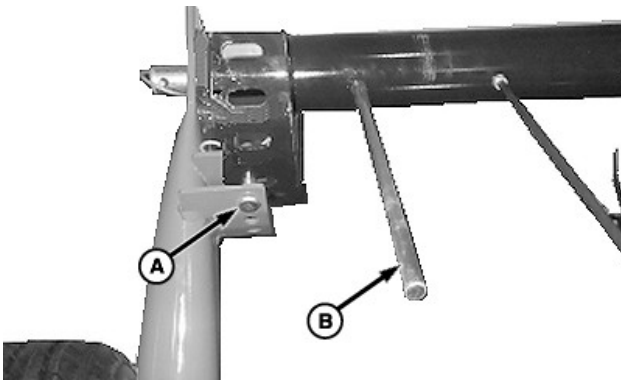
Increase the pitch of the belt pickup only in rocky conditions to prevent rocks from being carried into the belt pickup auger. Check and clean the stone traps daily.

IMPORTANT: When operating in this position, the belt pickup height gauge wheels must be in full contact with the ground to prevent missing strips of crop.

Adjust the belt pickup height gauge wheel position as needed and reduce the belt pickup speed.

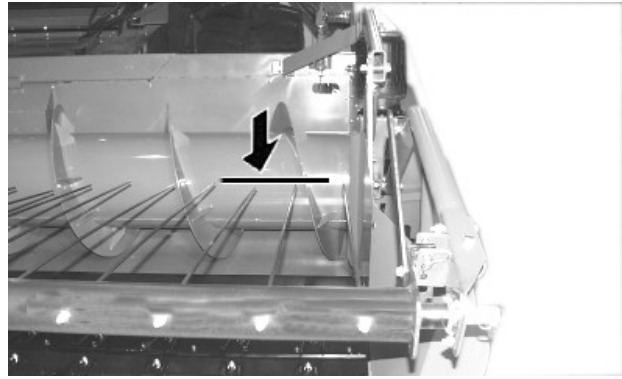
OUC6041,0000FCA-19-18JUN20

Adjusting Windrow Hold-Down (Windscreen)



Fixed Position

H126795—UN—01AUG19



H80812—UN—10MAY04

Approximate Height Setting



H121181—UN—04APR17
Reel Function Switch
(style A)



H116349—UN—19DEC16
Reel Function Switch
(style B)

A—Spring Pin and Straight Pin
B—Handle

Windrow hold-down eliminates crop bunching and prevents the crop from overriding the top of the auger by deflecting the crop downward. Adjustment to the windrow hold-down depends on crop conditions.

Adjusting Fixed Position:

1. Remove the spring pin and straight pin (A).
2. Rotate handle (B) to the desired windscreen height setting. For normal conditions, position the hold-down at approximately the top of the auger.
3. Install the previously removed pins.

Adjusting Floating Position:

NOTE: Floating position is adjusted from cab using reel function switch on multi-function lever.

1. To raise the windscreen, press the right side of the reel function switch.
2. To lower the windscreen, press the left side of the reel function switch.

OUC6041,0000E8C-19-24JUN20

Wet or Muddy Terrain (Light Height Gauge Wheel Pressure)

When light ground pressure for the belt pickup height gauge wheel is needed, as in extremely muddy conditions, the air spring pressure can be increased.

NOTE: Header height sensing will not work when air spring pressure is increased past check gauge. Manual header height control is necessary.

OUO6041,0000EA1-19-24JUN20

Large and Uneven Windrows



H121181—UN—04APR17
Reel Lift and Fore/Aft
Switch (style A)



H116349—UN—19DEC16
Reel Lift and Fore/Aft
Switch (style B)

When equipped with a variable speed feeder house, auger speed can be increased to smooth out large and uneven windrows before they enter the feeder house.

IMPORTANT: It is not recommended to operate the feeder house backshaft at speeds greater than 600 rpm for extended periods when operating with the 15-tooth auger drive sprocket. The 18-tooth auger drive sprocket is NOT intended for use with the variable speed feeder houses. This can damage the finger bearings in the auger. Backshaft speed is displayed on the cornerpost by depressing the backshaft speed switch.

NOTE: Auger speed is adjusted from the cab using the reel lift and fore/aft switch on the multi-function lever.

1. To increase the auger speed, press the top of reel lift and fore/aft switch.
2. To decrease the auger speed, press the bottom of the reel lift and fore/aft switch.

OUO6041,0000FCB-19-07FEB20

Adjustments — Belt Pickup

Service Tires Safely



TS952—UN—15APR13

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

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

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

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

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

Varying temperatures cause the tire pressure to change. Check the tire pressure every day before operating the belt pickup.

Cap must be kept on valve stem to prevent dirt from getting into the valve core.

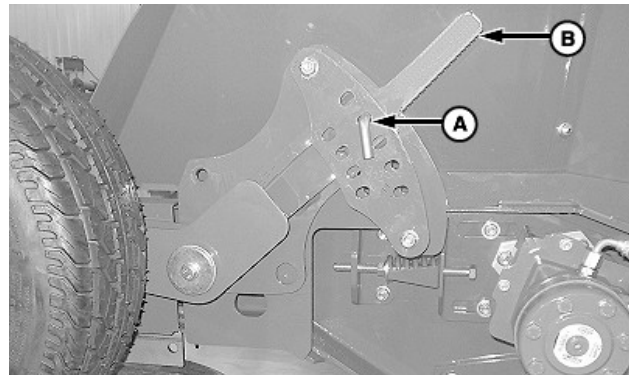
Keep the belt pickup height gauge wheels inflated to specification.

Specification

Belt Pickup Height Gauge
Wheels— Air Pressure. 15 psi
(1 bar)
(103 kPa)

D375S90.0000201-19-24JUN20

Adjust Belt Pickup Height Gauge Wheel



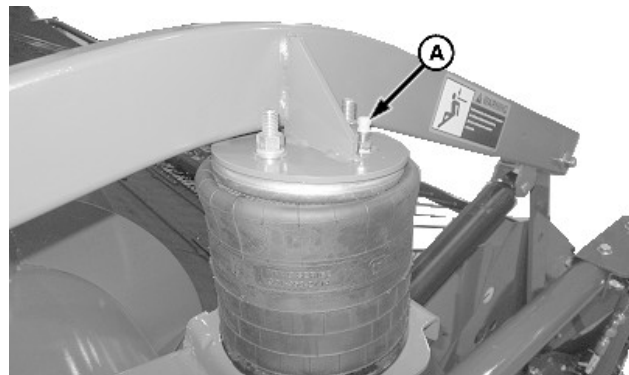
H128464—UN—07APR20

A—Spring Pin and Pin
B—Handle

1. Raise the feeder house so the belt pickup height gauge wheels are off the ground.
2. Remove the spring pin and pin (A).
3. Rotate handle (B) to the selected operating position and install the pin and spring pin.

OUC6041.0000FCC-19-15JUL20

Adjusting Air Springs



H126628—UN—16JUL19

A—Air Valve Cap

IMPORTANT: Avoid personnel injury or damage to the air springs. Do not exceed a maximum pressure of 100 psi (689 kPa) (7 bar).

Valve stem cap must be kept on the valve stem to prevent dirt from getting into the valve core.

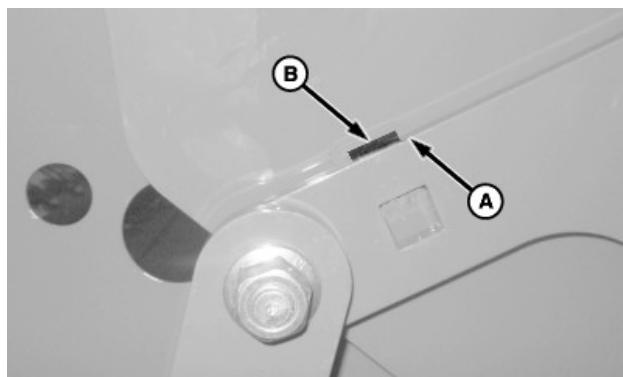
NOTE: The air springs support (lift) the front end (finger belt and transfer belt) portion of the belt pickup.

Remove the air valve cap (A) and inflate the bag to the correct pressure using the air spring gauge.

Reinstall the cap and repeat the procedure on the other side of the belt pickup.

OUC6041.0000E8A-19-08JUL20

Periodic Checking of Air Spring Pressure



H128461—UN—28JAN20

A—Upper Stop Link
B—Adjustment Gauge

NOTE: This is a quick check and does not require the operator to push down and release the belt pickup height gauge wheel as required during the air spring setup.

Changing the air temperature varies the internal air spring pressure. After extended periods, some air dissipates from the air spring. Periodic checking of the air spring pressure ensures the correct operation of the belt pickup suspension.

Replace the air spring if the air pressure drops more than 69 kPa (0.7 bar) (10 psi) in 20 days.

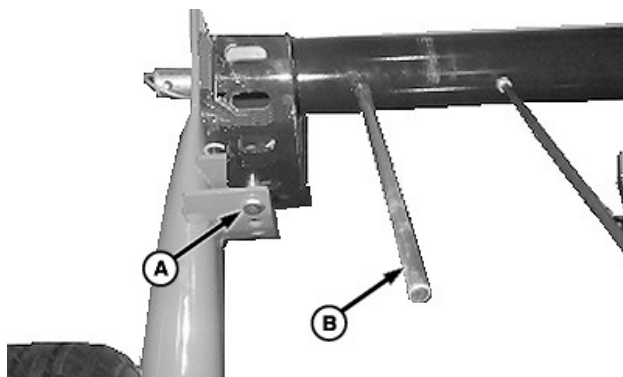
1. With the belt pickup height gauge wheel off the ground, check both the left side and right side air spring gauges.

The top of the upper stop link (A) aligns to the edge of adjustment gauge (B).

2. Add or remove air as required.

OUC6041,0000E9F-19-18JUN20

Adjusting Windrow Hold-Down (Windscreen)—Fixed Position



H126795—UN—01AUG19

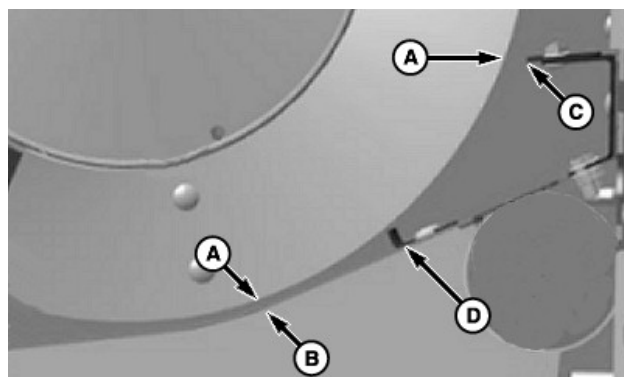
A—Spring Pin and Straight Pin
B—Windscreen Handle

NOTE: Position the windscreen for better access to the belt.

1. Remove the spring pin and straight pin (A).
2. Rotate the windscreen handle (B) to the desired position.
3. Install the pins.

OUC6041,0000E8B-19-06FEB20

Adjusting Auger



H128465—UN—29JAN20

A—Auger Flighting
B—Floor (closest spot)
C—Rear Stripper
D—Floor Stripper (reference only)

IMPORTANT: Perform the adjustment procedures with the belt pickup raised completely and with the feeder house safety stop engaged.

NOTE: Adjustment procedure is the same for left-hand and right-hand sides.

Rotate the auger frequently during the adjustment procedures.

Adjust the auger equally. Do not adjust only one side completely to the recommended clearance.

To prevent damage, adjust the auger so the distance between auger flighting (A), floor (B), rear stripper (C), and the floor stripper (D) is no less than the minimum clearances listed.

For rear and floor stripper adjustment procedures, see Adjusting Rear Stripper and Adjusting Floor Stripper in this section. Adjust auger to the following specifications:

Specification

Auger Flighting to	
Floor—Minimum Clearance.	6 mm (1/4 in)
Auger Flighting to Rear	
Stripper—Minimum Clearance.	6 mm (1/4 in)

Auger Flighting to Floor

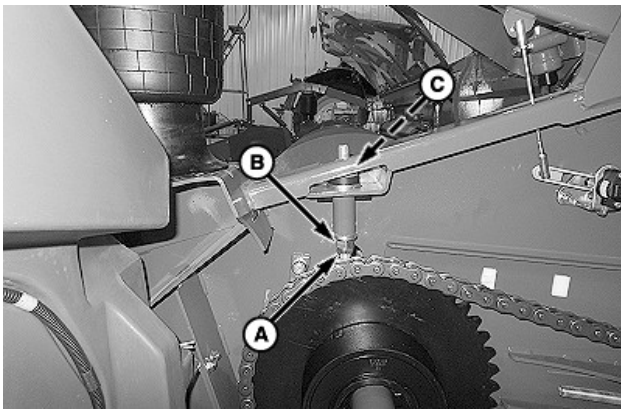
Stripper—Minimum Clearance. 6 mm
(1/4 in)

IMPORTANT: Perform the adjustment procedures with the belt pickup raised completely and with the feeder house safety stop engaged.

Maintain a minimum clearance of 16 mm (5/8 in) between the center auger fingers and the floor.

NOTE: Rotate the auger frequently during the adjustment procedures.

Adjust both sides of the auger equally. Do not adjust one side completely to the recommended clearance.



H126657—UN—23JUL19

A—Lock Nut
B—Nut
C—Flange Nut

1. Loosen lock nut (A) and nut (B) to adjust the auger to the desired setting using flange nut (C). Repeat on the other side of the belt pickup.
2. Tighten nut (B) to the flange nut (C). Repeat on the other side of the belt pickup.
3. Tighten the nut to specification.

Specification

Nut (B)—Torque. 160 N·m
(118 lb·ft)

NOTE: Verify that the spacer is free in the bracket, allowing the auger to float.

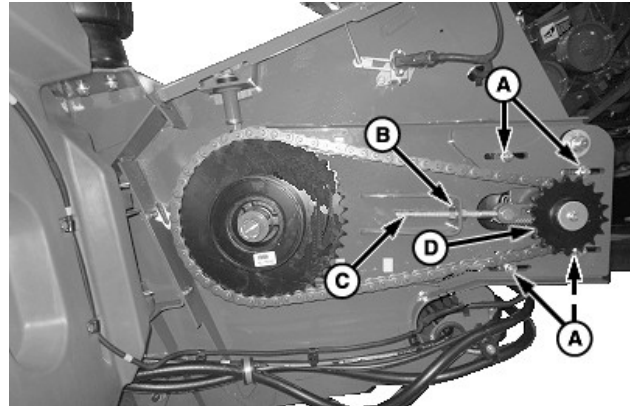
4. Tighten lock nut (A) to nut (B).
5. Repeat on the other side of the belt pickup.

D375S9O.0000203-19-25JUN20

Adjust 2-Speed Auger Drive Sprockets with Fixed Speed Drive ONLY

IMPORTANT: These sprockets must NOT be changed for variable speed combines. Changing the auger drive sprocket with a variable speed feeder house overspeeds the auger, resulting in damage to the finger bearings in the auger.

NOTE: Procedure to change from the low-speed sprocket to the high-speed sprocket is shown.



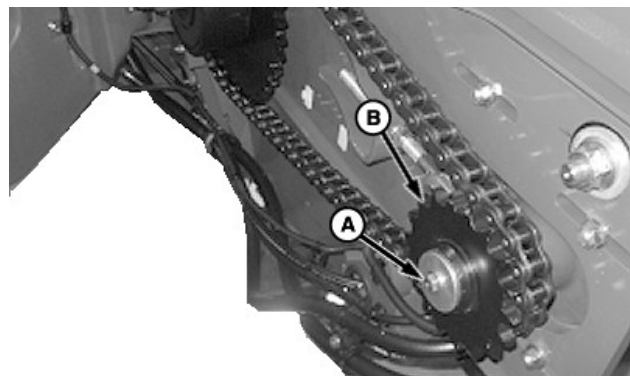
H126797—UN—06FEB20

A—Cap Screw (4 used)
B—Lock Nut (2 used)
C—Adjusting Bolt
D—Drive Sprocket

1. Loosen cap screws (A) and lock nuts (B).

NOTE: Chain may need to be removed in some cases.

2. Using lock nuts, move adjusting bolt (C) as needed to remove the chain from drive sprocket (D).



H126874—UN—08AUG19

A—Cap Screw and Washer
B—Auger Drive Sprocket

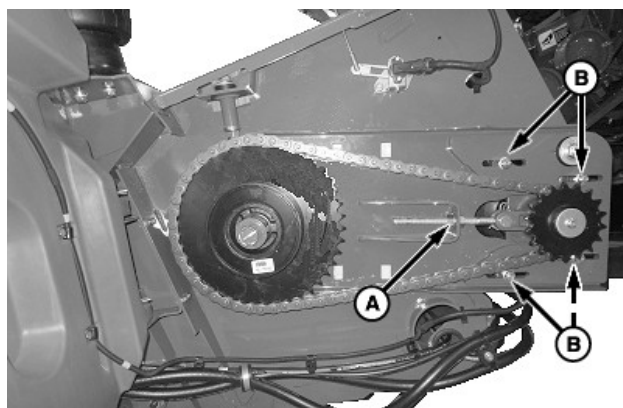
3. Remove the cap screw and washer (A).
4. Remove the auger drive sprocket (B).
5. Rotate and install the auger drive sprocket so the large sprocket is towards the panel.
6. Install the chain to the large drive sprocket.

7. Install the previously removed washer and cap screw.
8. Tighten the cap screw to specification.

Specification

Cap Screw—Torque. 56 N·m
(41 lb·ft)

IMPORTANT: The belt pickup driveshaft must be attached to the combine before checking the chain tension. The chain must deflect 25 mm (1 in) at 88 N·m (20 lb·ft) of pull at the mid span when the auger is at the bottom of travel.



H127929—UN—11NOV19

A—Lock Nut (2 used)
B—Cap Screw (4 used)

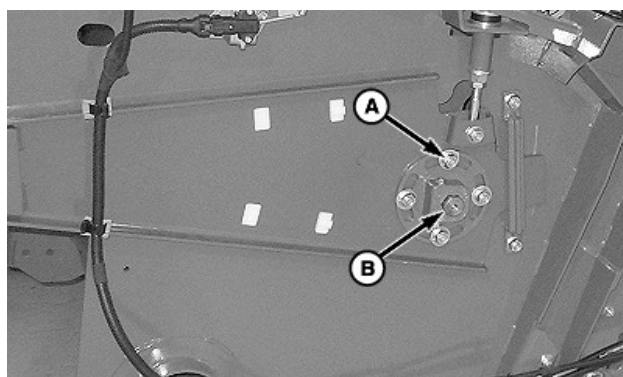
9. Use lock nuts (A) to move the adjusting bolt as needed to achieve the recommended chain tension.
10. Tighten cap screws (B) to specification.

Specification

Nuts and Cap Screws—Torque. 122 N·m
(90 lb·ft)

OUO6041,0000EAA-19-24JUN20

Adjusting Finger Timing



H126796—UN—02AUG19

A—Flange Nut (4 used)
B—Hex Shaft

IMPORTANT: Perform the adjustment procedures with the belt pickup raised completely and with the feeder house safety stop engaged. The full weight of the belt pickup must be supported by the feeder house before performing this adjustment.

NOTE: Feeding between the belt pickup and feeder house may be improved by advancing or retarding the auger finger timing.

Advance if an excessive amount of crop is going over the top of the auger or if working in damp and/or heavy crop conditions.

Retard if the crop is dry and light.

Loosen the four flange nuts (A).

IMPORTANT: Avoid damage to the floor or fingers. Maintain a minimum clearance between the fingers and the floor of 16 mm (5/8 in).

Rotate the casting clockwise to advance the timing or counterclockwise to retard the timing. Use a wrench on the hex shaft (B) to rotate the casting.

Carefully rotate the auger by hand to check the clearances.

Tighten the flange nuts to specification.

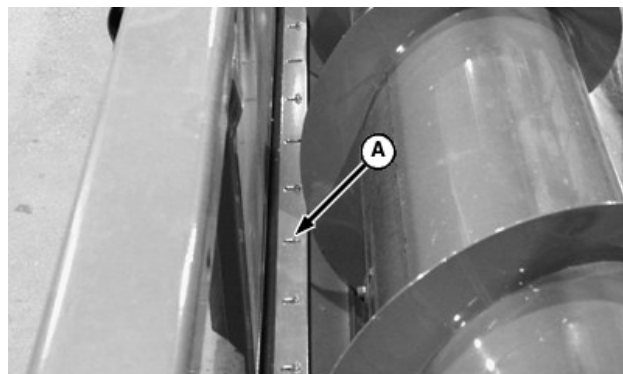
Specification

Flange Nuts—Torque. 122 N·m
(90 lb·ft)

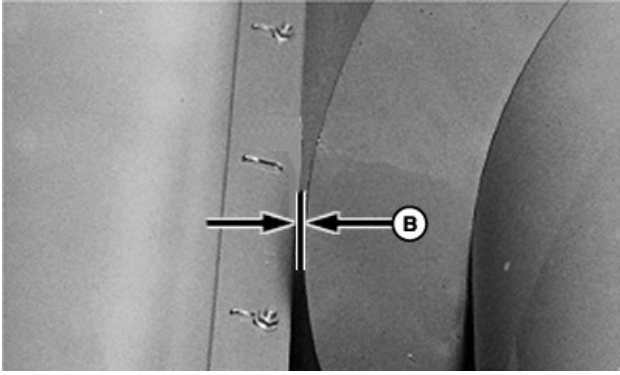
OUO6041,0000FD1-19-24JUN20

Adjusting Rear Stripper

IMPORTANT: Perform the adjustment procedures with the belt pickup raised completely and with the feeder house safety stop engaged.



H57664—UN—27MAY99



H82246—UN—18FEB05

A—Screw
B—Minimum Clearance, 6 mm (1/4 in)

Loosen screws (A) and slide the stripper so there is 6 mm (1/4 in) minimum clearance (B) between the auger and stripper. Carefully rotate the auger by hand to check the clearance as the screws are tightened.

Adjustable stripper bars are reversible to provide additional wear life.

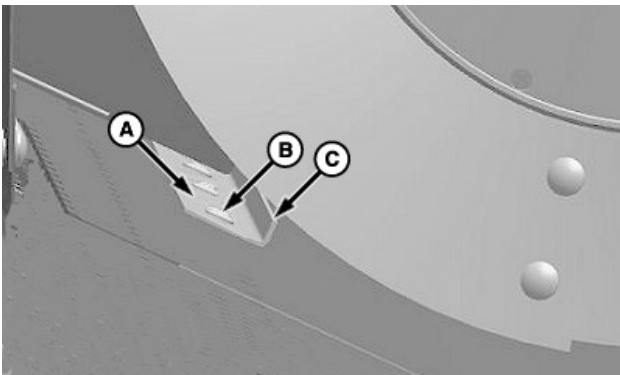
OOU6041,0000FCF-19-24JUN20

Adjusting Floor Stripper

IMPORTANT: Perform the adjustment procedures with the belt pickup raised completely and with the feeder house safety stop engaged.

Auger height must be adjusted to the proper setting before adjusting the floor strippers (see Adjusting Auger Height in this section for procedures).

NOTE: Loosen only the cap screws in the area of the floor stripper that requires adjustment. Floor stripper has slotted mounting holes (A) for adjustment.



H128466—UN—31JAN20

A—Slotted Mounting Hole
B—Cap Screw
C—Floor Stripper

Loosen cap screws (B) and adjust the floor stripper (C) to the proper clearance.

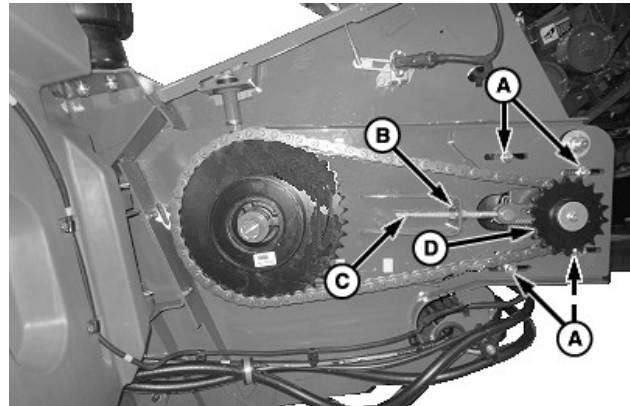
Specification

Floor Stripper to Auger
Flighting—Minimum Clearance. 6 mm
(1/4 in)

OOU6041,0000FD0-19-24JUN20

Adjusting Auger Chain Tension

IMPORTANT: The belt pickup driveshaft must be attached to the combine before checking the chain tension.



H126797—UN—06FEB20

A—Nut and Cap Screw (4 used)
B—Lock Nut
C—Chain

1. Loosen nuts and cap screws (A) and lock nuts (B).

IMPORTANT: The chain must deflect 25 mm (1 in) at 88 N·m (20 lb·ft) of pull at the mid span when the auger is at the bottom of travel.

2. Use the lock nuts to move the adjusting bolt as needed to achieve the recommended tension on chain (C).
3. Tighten the lock nuts.
4. Tighten the nuts and cap screws (A) to specification.

Specification

Nuts and Cap Screws—Torque. 122 N·m
(90 lb·ft)

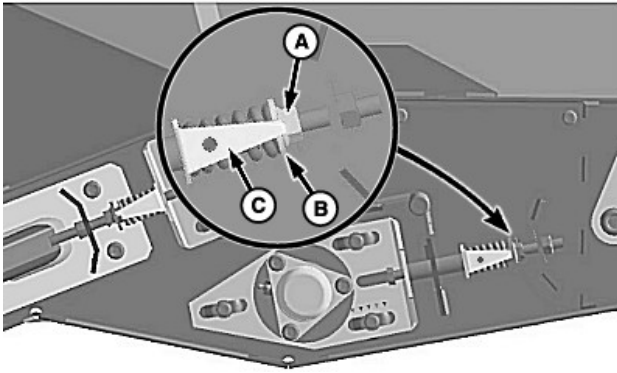
OOU6041,0000FD2-19-25JUN20

Adjusting Transfer Belt Tension

IMPORTANT: Right-hand side and left-hand side adjusting procedures are similar.

Over-tensioned belts cause the belts to ripple and track incorrectly.

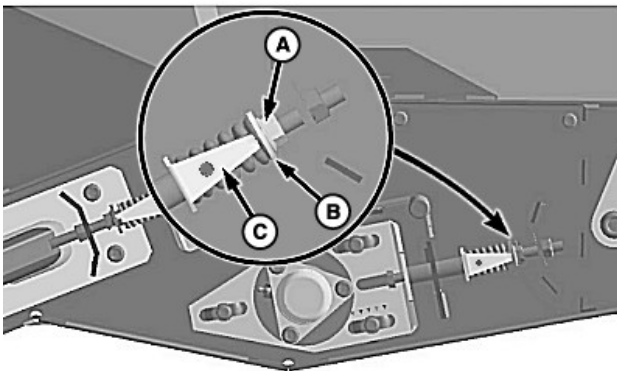
Rollers are spring-floating at all times.



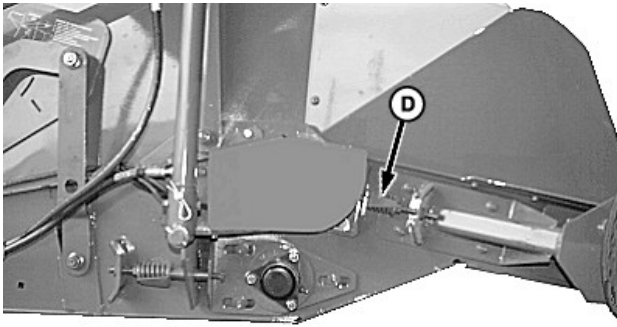
H84017—UN—02NOV05

A—Adjusting Nut
B—Washer
C—Gauge

1. Tighten adjusting nut (A) until the washer (B) is 3 mm (1/8 in) past the end of gauge (C).



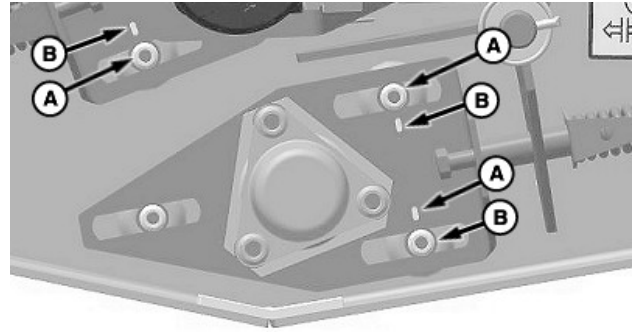
H84071—UN—02NOV05



H84072—UN—14JAN09

A—Adjusting Nut
B—Washer
C—Gauge
D—Right-Hand Side Tensioner

2. Back off adjusting nut (A) until the spring length is the same length as the gauge and the spring side of washer (B) is at tip of gauge (C).



H128785—UN—07FEB20

A—Tension Bracket Bolt
B—Slot

NOTE: For a visual check for proper belt tension, verify that the centers of the tension bracket bolts (A) line up with the slots (B) in the tension bracket.

3. Repeat on the opposite side of the belt pickup.
4. Operate the belts and check for tracking issues. Adjust as necessary.

OUC06041,0000E91-19-08JUL20

Adjusting Picking Belt Tension

IMPORTANT: Right-hand side and left-hand side adjusting procedures are similar.

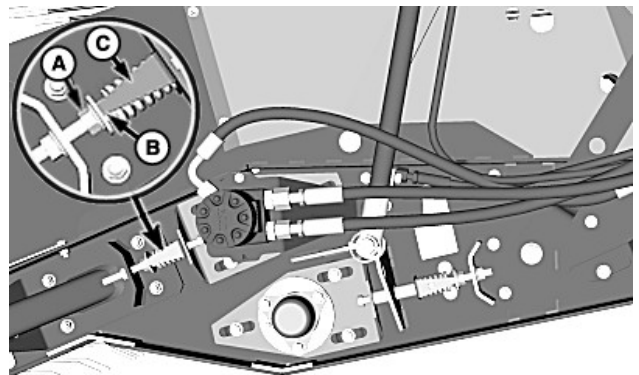
Over-tensioned belts cause the belts to ripple and track incorrectly.

Rollers are spring-floating at all times.

In extreme conditions, front belt tension can be increased to second step on gauge to decrease belt slippage.

In extreme conditions (down and tangled crop), larger displacement hydraulic motors can be installed on belts.

See your John Deere dealer.

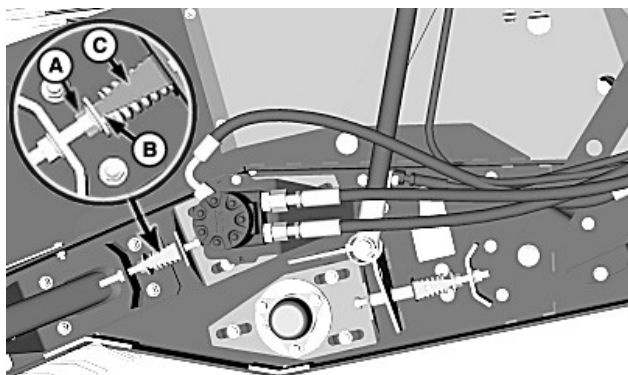


H87161—UN—08JAN07

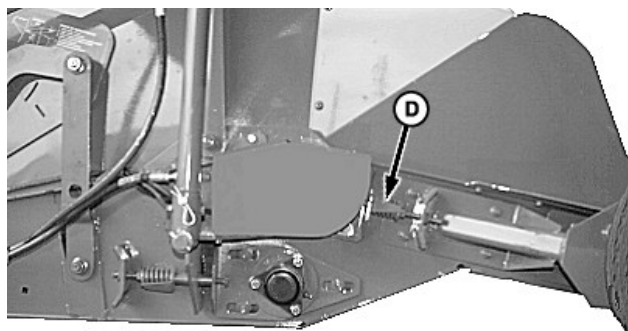
A—Adjusting Nut
B—Washer

C—Gauge

1. Tighten adjusting nut (A) until the washer (B) is 3 mm (1/8 in) past the end of gauge (C).



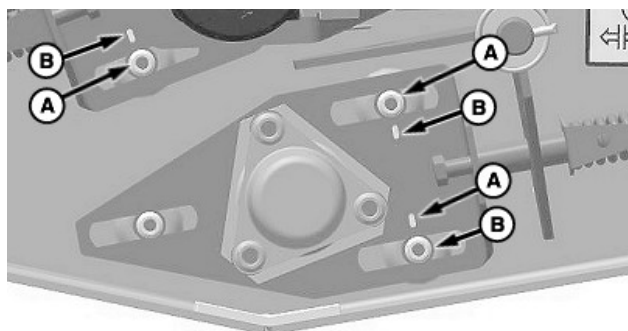
H87161—UN—08JAN07



H84072—UN—14JAN09

- A—Adjusting Nut**
B—Washer
C—Gauge
D—Right-Hand Side Tensioner

2. Back off adjusting nut (A) until the spring length is the same length as the gauge and the spring side of washer (B) is at the tip of gauge (C).



H128785—UN—07FEB20

- A—Tension Bracket Bolt**
B—Slot

NOTE: For a visual check for proper belt tension, verify that the centers of the tension bracket bolts (A) line up with the slots (B) in the tension bracket.

3. Repeat the procedure on the opposite side of the belt pickup.
4. Operate the belts and check for tracking issues. Adjust as necessary.

OUO6041,0000E92-19-08JUL20

Belt Tracking Issues

Tracking Issues

The most common cause of belt tracking problems is over-tensioned belts.

A less common cause of belt tracking problems is unequal air pressure in the air springs when the belt pickup height gauge wheels are off the ground. In this case, the belts drift to the lowest side.

Belt Drift

Belts drift left and right, and this is not a problem unless the end of the belt begins to roll over.

Correcting Belt Wave from Over-Tensioning

A wave or ripple in the belts is likely due to over-tensioned belts. To correct this problem:

⚠ CAUTION: To avoid serious injury or death, stay clear of all moving parts while the machine is operating.

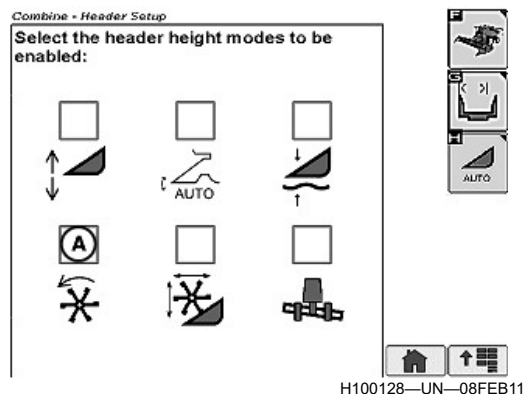
1. Reduce the spring tension (both sides) until the spring length is 3 mm (1/8 in) longer than the spring gauge.
2. Ensure that the pickup is level by lowering the belt pickup until both belt pickup height gauge wheels touch the ground.
3. Disengage the feeder house (belt pickup) drive.
4. Disconnect the auger driveshaft from the feeder house and place on the belt pickup storage bracket.
5. Operate the belts at slow speed (engine at idle) until the belts track correctly.
6. Adjust the tension to the proper setting (see Adjusting Transfer/Picking Belt Tension in this section).
7. Reconnect the auger driveshaft to the feeder house.

OUO6041,0000EA2-19-08JUL20

Adjust Auto Reel/Belt Speed Ratio

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

Auto Reel/Belt Speed dial adjusts the ratio of the belt speed to the ground speed when **Auto Reel/Belt Speed** is enabled on the CommandCenter™ Display.

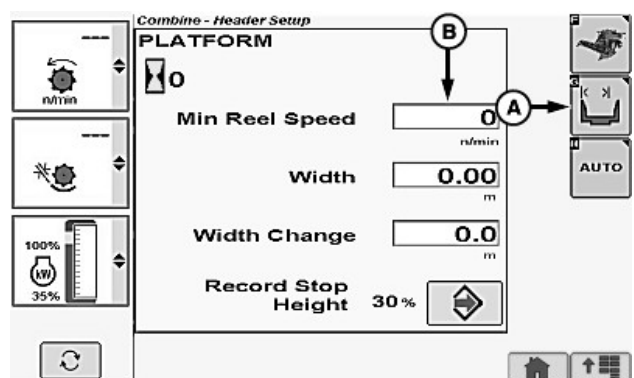


A—Auto Reel/Belt Speed Icon
B—Auto Reel/Belt Speed Dial

1. Start the engine and drive forward with the belt pickup and separator engaged.

NOTE: This automatic control does not work if the ground speed is less than 1 km/h (0.62 mph). When driving the machine slowly through a down and lodged crop, temporarily shut OFF the automatic control and use the manual speed controls.

2. Enable the **Auto Reel/Belt Speed** icon (A) on Active Header Control display.
3. Rotate the **Auto Reel/Belt Speed** dial (B) clockwise (+) until ratio of **3** is displayed.
4. Observe the speed of the belts and adjust the dial until the desired ratio to ground speed is achieved. Belts will now speed up or slow down in relation to the ground speed.



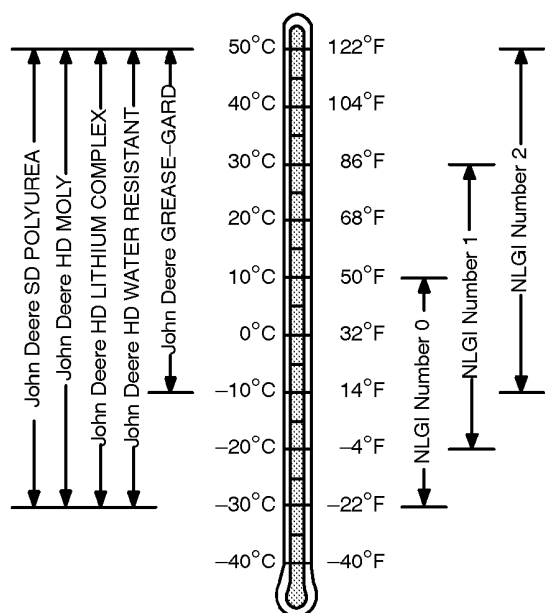
A—Header Width Setup Icon
B—Minimum Reel Speed Box

5. To change minimum speed:
 - a. Highlight **Header Width Setup** icon (A) and press the **confirm** switch.
 - b. Highlight **Minimum Reel Speed** box (B) and press the **confirm** switch.
 - c. Rotate selection dial counterclockwise until desired speed is displayed and press the **confirm** switch. This minimum speed is kept until operator sets new minimum speed (see your combine Operator's Manual for more information).

OUC6041,0000FCE-19-07JUL20

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: John Deere SD POLYUREA GREASE (TY6341) is the required grease for the feeder house torque sensing cams.

Some types of grease thicken and are not compatible with others.

If grease fitting is missing, replace immediately. Clean fittings thoroughly before using grease gun.

Product Number	Description
TY6341	Multi-Purpose, High-Temperature Extreme Pressure Grease, especially effective in rolling contact applications.

AG,OUO1035,1175-19-26OCT99

containers on their side to avoid water and dirt accumulation.

Make certain that all containers are properly marked to identify their contents.

Properly dispose of all old containers and any residual lubricant they may contain.

DX,LUBST-19-11APR11

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

Lubrication and Maintenance

Lubrication Symbols

IMPORTANT: Recommended service intervals are for average conditions. Service **MORE OFTEN** if the belt pickup is operated under adverse conditions.

CAUTION: Never lubricate or service the belt pickup while the combine engine is running.

Lubricate with John Deere Multi-Purpose SD Polyurea Grease or an equivalent SAE multipurpose high-temperature grease with extreme pressure (EP) performance at hours shown on the symbol.

OUO6041,0000FE0-19-08JUL20

Care and Maintenance of Belts

CAUTION: 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, engage park brake, and remove the key.
- Do not attempt to clean belts with flammable cleaning solvents.

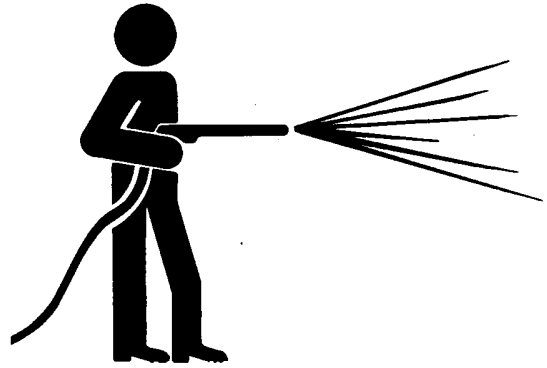
Belt dressing is not recommended on any belt, flat V-belt, or flat at any time. Most dressings contain chemicals that tend to soften belts. While this softening process actually does increase the friction between the belt and sheave grooves, the result is only temporary.

Remove grease and oil as quickly as possible before they can penetrate deeply into the belt, causing rapid deterioration.

Clean belts by wiping them with a clean cloth. Use a non-flammable cleaner or solvent to remove excessive grease and oil. Water and a detergent soap can be used but are not as satisfactory as a non-flammable cleaner.

OUO6041,0000FDC-19-25JUN20

Using High-Pressure Washers



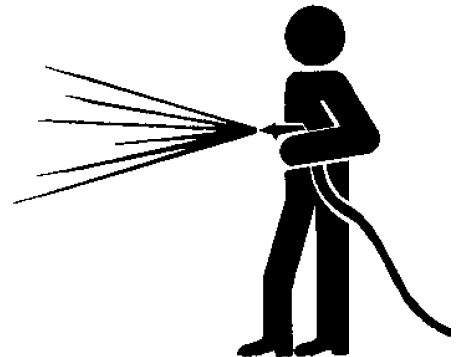
T6642EJ—UN—18OCT88

IMPORTANT: High-pressure washers are a very effective means of cleaning the belt pickup. To avoid damage to the belt pickup, do not go closer than 1 m (39 in.) and spray at an angle between 45 and 90° when cleaning sealing surfaces, seals and decals. Maximum pressure must not exceed 12000 kPa (120 bar; 1740 psi).

Do not, under any circumstances, spray or wash components with cold water when hot. Do not use rotary nozzles or water at temperatures over 50°C (122°F), and do not aim at seals. Keep the water jet moving at all times. Cooling units, bearings and electronic/electrical equipment must not be cleaned with high-pressure washers. Follow the instructions in the high-pressure washer operator's manual and manuals of attached equipment.

BJN2CS6,00001D9-19-22JUN20

Using Pressurized Air



RW56455—UN—30JUN97

IMPORTANT: Directing pressurized air at electronic/electrical components or connectors may cause buildup of static electricity and product malfunctions.

BJN2CS6,00001B0-19-01JUL20

Important Considerations

Follow the lubrication and maintenance intervals specified in this manual when operating the belt pickup in normal conditions.

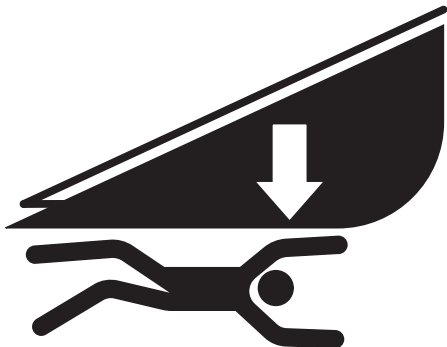
When operating the belt pickup in severe or adverse conditions, reduce the lubrication and maintenance intervals.

Examples of Severe or Adverse Operating Conditions:

- Working in wet or muddy conditions requires frequent lubrication of the grease fittings.
- High concentrations of dust and dry matter. Dust and dry matter can accumulate in different parts of the belt pickup.

BJN2CS6,00001DA-19-08JUL20

Working Underneath or Around Feeder House



H121063—UN—14MAR17

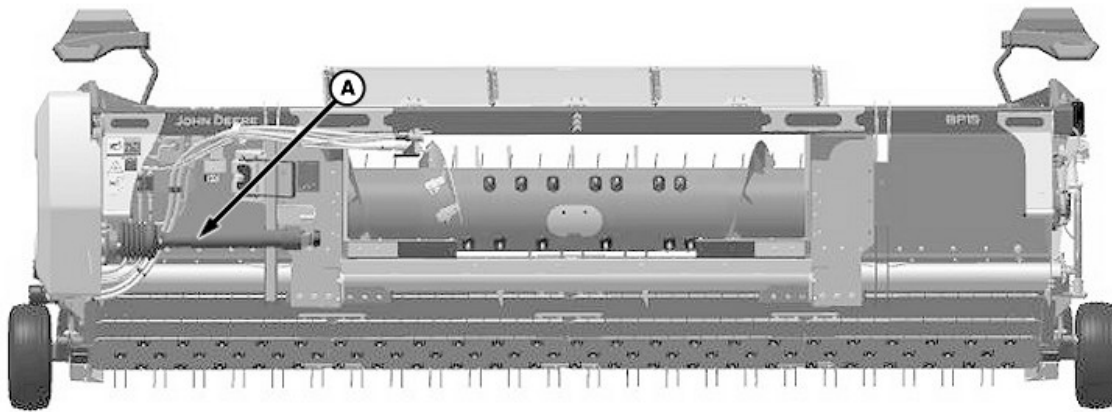
⚠ CAUTION: To prevent injury, after engaging the feeder house lock, support the feeder house with solid blocking before performing non-routine service or maintenance items underneath the feeder house or belt pickup.

See Feeder House Safety Lock in the Feeder House section of the combine's Operator's Manual for further information.

BJN2CS6,00001DB-19-08JUL20

Maintenance—Every 50 Hours

Service Interval Chart—Every 50 Hours

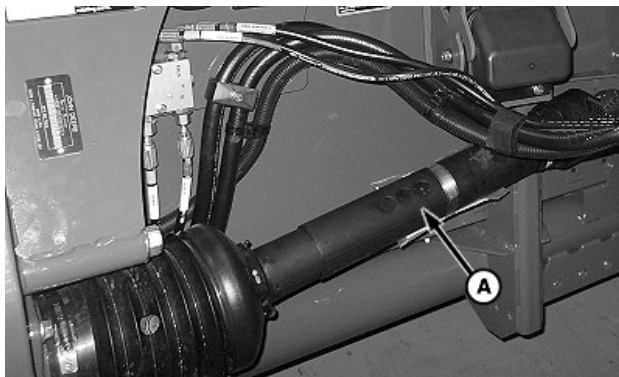


H130419—UN—09JUN20

Legend	Service	Every 50 Hours
A	Grease Driveshaft Fitting	•

BJN2CS6,000019E-19-18JUN20

Grease Driveshaft Fitting



H126875—UN—14AUG19

A—Driveshaft Shield

IMPORTANT: If a grease fitting is damaged or missing, replace it immediately. Always tighten plugs securely.

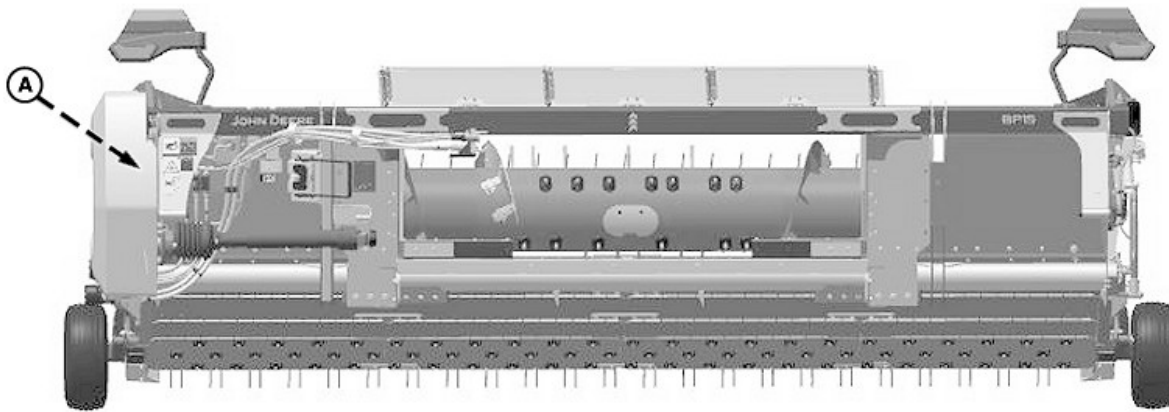
NOTE: To avoid equipment damage and failure due to system contamination, always clean grease fittings before **and** after lubrication.

1. To locate the grease fitting, align hole in the driveshaft shield (A).
2. Apply grease to the grease fitting.

BJN2CS6,000019C-19-15JUL20

Maintenance—Every 200 Hours

Service Interval Chart—Every 200 Hours

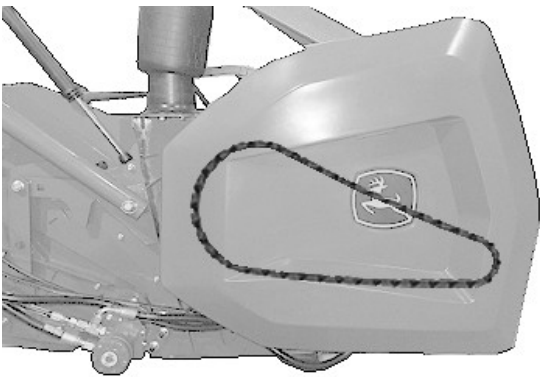


H130420—UN—09JUN20

Legend	Service	Every 200 Hours
A	Lubricate Drive Chain	•

BJN2CS6,000019F-19-08JUN20

Lubricate Drive Chain



H126876—UN—15AUG19

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

NOTE: Engage the belt pickup for a few minutes before lubricating. A warm chain increases the penetration of the oil between the pins and bushings. After warming up the chain, shut OFF engine, set park brake, and remove key.

Lubricate the chain with SAE 30 or heavier oil every 200 hours, at the start of the season, and at the end of the season.

John Deere Chain and Cable Lubricant is available in an aerosol can.

BJN2CS6,000019D-19-18JUN20

Service

Hydraulic Cylinder Safety Stop

Engage the feeder house safety stop (see Attaching Front-End Equipment to Combine in Attaching and Detaching section of this manual).

OUC6041,0000ECF-19-25JUN20

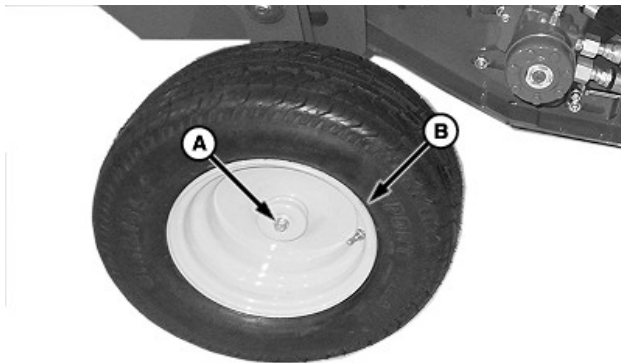
4. Install the wheel in reverse order.
5. Tighten the cap screw to specification.

Specification

Cap Screw—Torque. 46 N·m
(34 lb·ft)

OUC6041,0000FD7-19-18JUN20

Replacing/Service of Belt Pickup Height Gauge Wheel/Tire

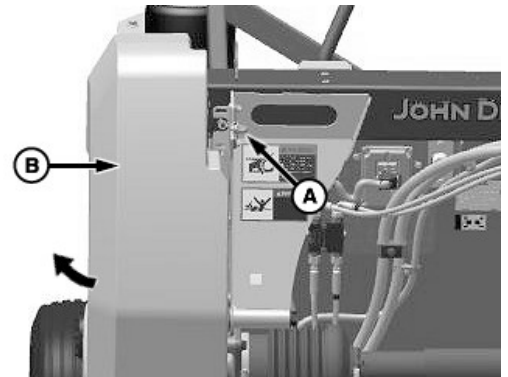


H128469—UN—30JAN20

- A—Cap Screw and Washer
- B—Belt Pickup Height Gauge Wheel

1. Determine the belt pickup height gauge wheel to be serviced and raise the belt pickup height gauge wheel off the ground.
2. Remove the cap screw and washer (A) and belt pickup height gauge wheel (B).
3. Service or replace the belt pickup height gauge wheel or tire.

Open Side Shield



H130766—UN—13JUL20

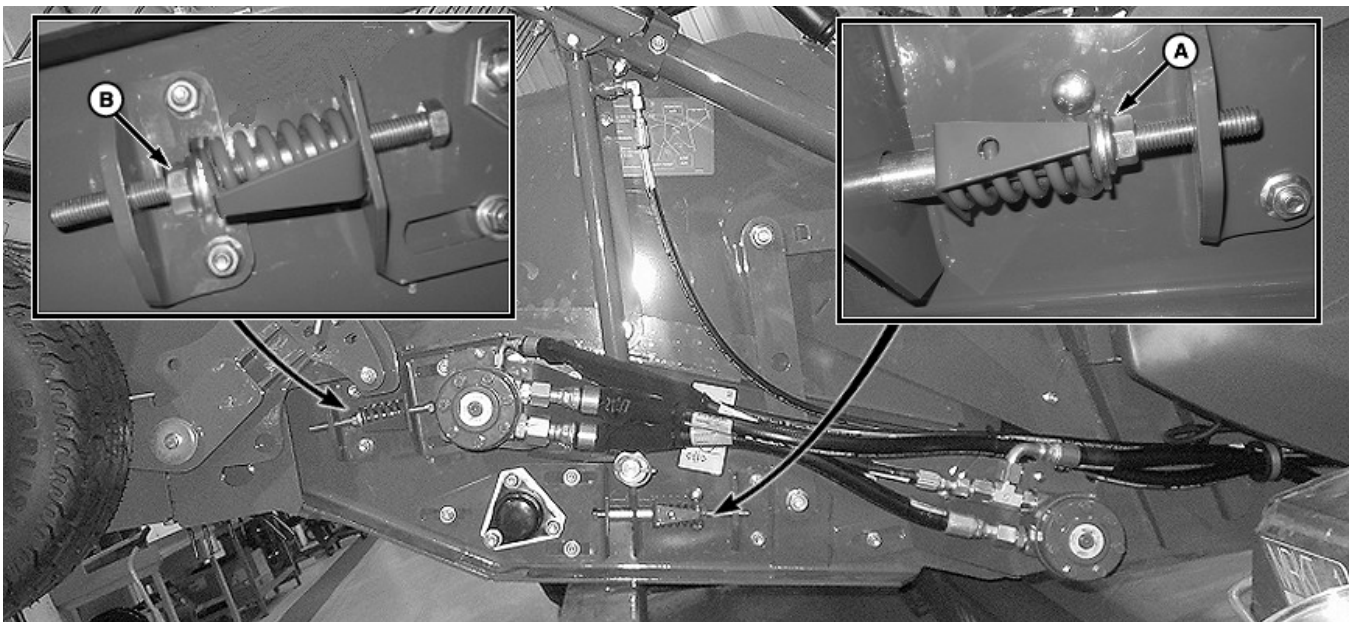
Left-Hand Side Only

- A—Knob
- B—Side Shield

Turn knob (A) and open side shield (B).
Close in the reverse order.

OUC6041,0000E9C-19-13JUL20

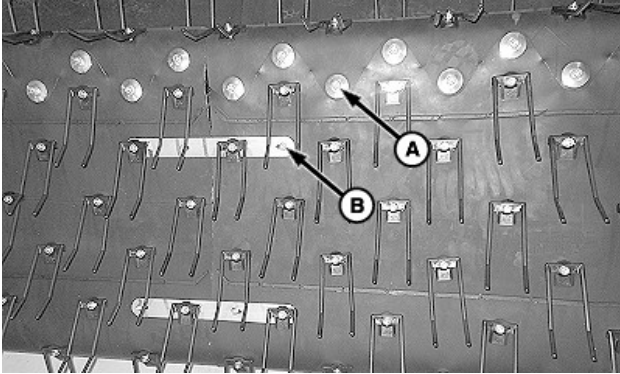
Replacing Pickup Belts



Left-Hand Side Shown

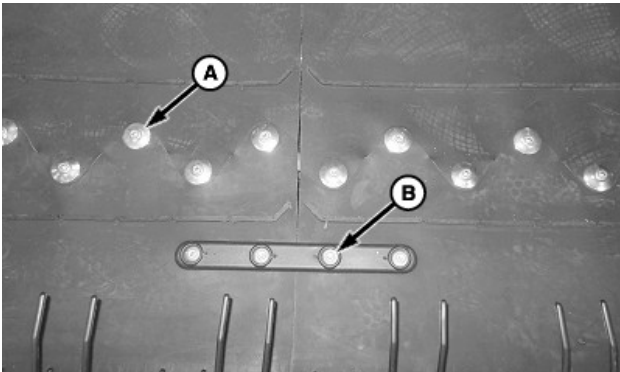
A—Rear Belt Adjustment Nut

1. Relieve the tension from the rear belt by loosening adjustment nut (A). Repeat on the right-hand side of the belt pickup.
2. Relieve the tension from the front belt by loosening adjustment nut (B). Repeat on the right-hand side of the belt pickup.



Front Belt

H126801—UN—05AUG19



Rear Belt

H126802—UN—08AUG19

A—Seam Nut**B—Connector Nuts and Connector**

3. Rotate the belt as necessary to access the seam hardware.
4. Remove seam nuts (A) on the existing belt.
5. Remove connector nuts and the connectors (B).
6. Remove the belt.
7. Install the belt as shown.
8. Install the previously removed connectors, connector nuts, and the seam nuts.
9. Tighten the connector nuts and the seam nuts to specification.

B—Front Belt Adjustment Nut**Specification**

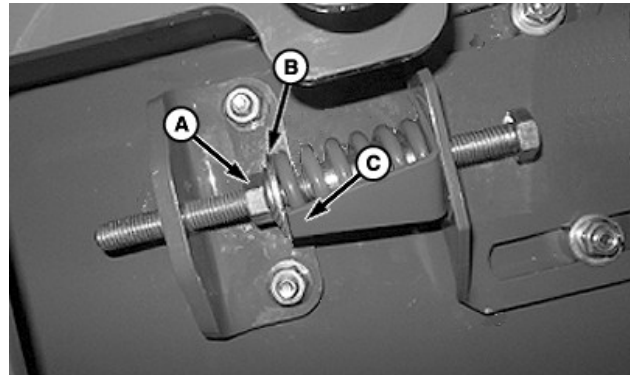
Connector Nuts and Seam

Nuts—Torque. 6 N·m
(53 lb·in)

IMPORTANT: Do not adjust the washer past the edge of the gauge. Belt tracking issues result if too much tension is applied to the spring.

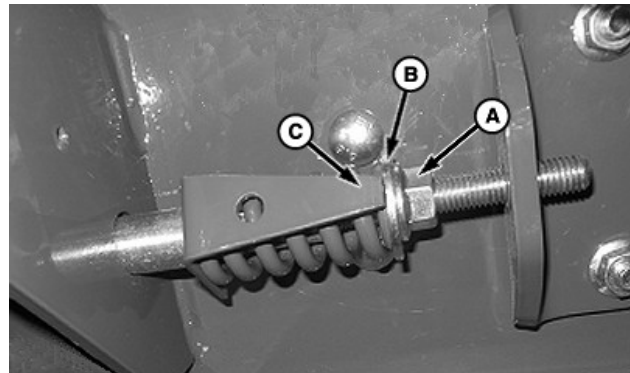
NOTE: The left-hand side and right-hand side adjusting procedures are similar.

The belt rollers are spring-floating at all times.



Pickup Belt (front belt)

H126803—UN—07AUG19



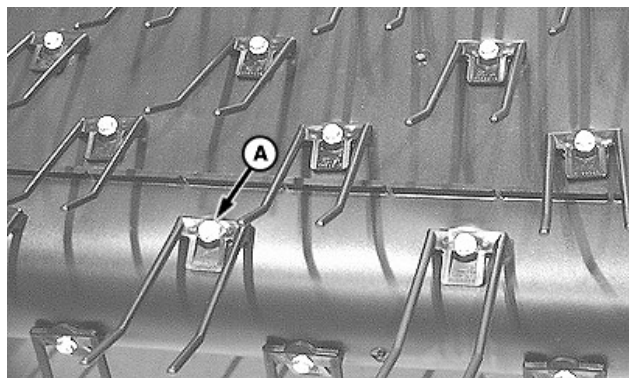
Transfer Belt (rear belt)

H126804—UN—07AUG19

A—Adjusting Nut**B—Washer****C—Gauge**

10. Rotate adjusting nut (A) until the washer (B) is aligned with gauge (C) as shown.
11. Repeat on the opposite side of the belt pickup.
12. Operate the belts and check for tracking issues (see Belt Tracking Issues in Adjustments—Belt Pickup section).

Replacing Pickup Fingers



H81359—UN—16JUL04

A—Lock Nut

If fingers become worn, bent, or damaged, straighten or replace them immediately.

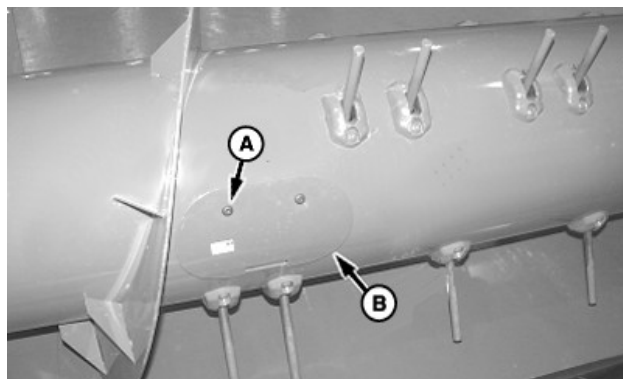
1. Turn belt pickup until finger that is to be replaced is directly over upper or lower roller.
2. Remove nut and the damaged finger.
3. Replace fingers, orient the new finger as other fingers, and retain. Secure with the lock nut (A). Shoulder of bolt must be seated in the base of finger. Tighten nuts to specification.

Specification

Lock Nut—Torque. 6 N·m
(5 lb·ft)

BJN2CS6,00001E1-19-08JUL20

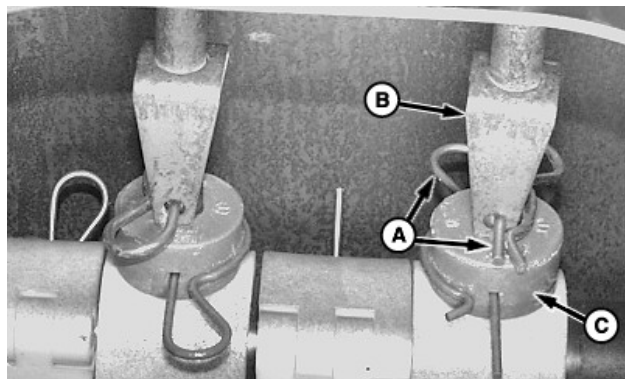
Replacing Auger Fingers and Retainers



H128467—UN—30JAN20

A—Access Hole Cover Screw (2 used)
B—Access Hole Cover

1. Remove access hole cover screws (A) and access hole cover (B).



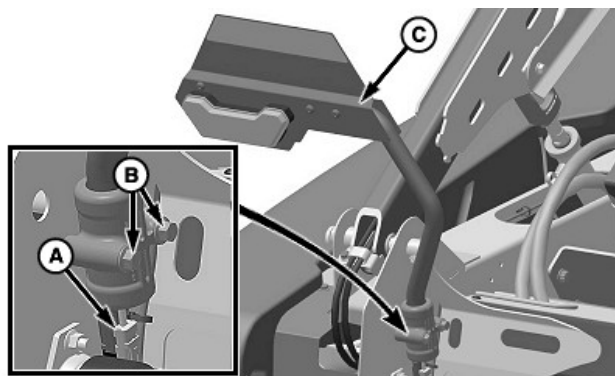
H81392—UN—20JUL04

A—Pin (2 used)
B—Auger Finger
C—Retainer

2. Remove pins (A), auger finger (B), and retainer (C). Remove broken parts.
3. Install replacement parts in reverse order of removal.

OUO6041,0000FD4-19-18JUN20

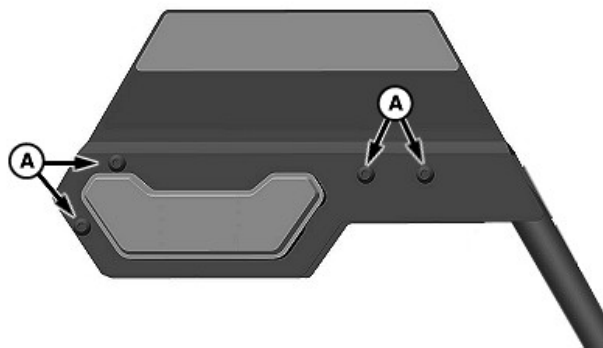
Warning Light Replacement (if equipped)



H130797—UN—22JUL20

A—Wiring Harness
B—Cap Screw and Nut (2 used)
C—Light Assembly

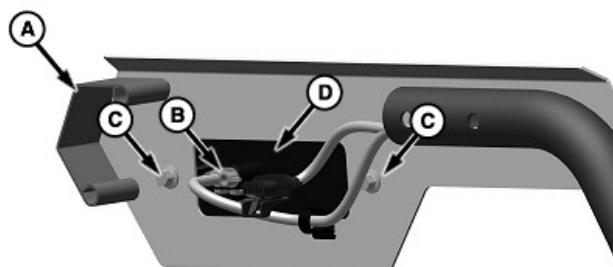
1. Determine which light needs replaced.
2. Disconnect wiring harness (A).
3. Remove cap screws and nuts (B) and light assembly (C) from the belt pickup frame.



H130795—UN—22JUL20

A—Socket Head Cap Screw, Washer, and Nut (4 used)

4. Remove the socket head cap screws, washers, and nuts (A) and separate the light housing.



H130794—UN—21JUL20

A—End Guard
B—Harness Connector
C—Cap Screw (2 used)
D—Light

5. Remove end guard (A) and disconnect harness connector (B) from the light.
6. Remove cap screws (C) and light (D).
7. Install the replacement light in the reverse order.

OUO6041,0001155-19-05AUG20

Rephasing Windrow Hold-Down Cylinders

If one end of windrow hold-down is lower than the other, hold the raise/lower button for a few seconds longer after the windscreen is in the highest or lowest position to allow the cylinders to extend or retract to the proper location.

When both cylinders have been extended or retracted, return windrow hold-down to original position and it will automatically be level. If windrow hold-down is not level, air is trapped in system and must be bled out.

OUO6041,0000FD5-19-18JUN20

Troubleshooting

Belt Pickup

Most belt pickup operating problems can be traced to improper adjustment. This section can help when problems develop by suggesting a probable cause and possible solution.

When trying to solve a problem, be certain that its source is not from somewhere other than where the problem exists.

Symptom	Problem	Solution
Windrow Difficult to Pick Up or Strips of Crop Not Being Picked Up	Short crop down in stubble, embedded in drill or wheel furrows.	Raise the belt pickup height gauge wheels to allow the fingers to run closer to the ground.
	Belt pickup height gauge wheels not always contacting the ground.	Lower the belt pickup to allow the pickup to operate at less pitch.
	Pickup speed too slow.	Increase the pickup speed.
Picking Up Dirt	Wrong setting of the belt pickup height gauge wheel.	Lower the belt pickup height gauge wheels to prevent the pickup fingers from digging in the ground.
	Pitch of pickup too flat.	Raise the belt pickup so the area between the center and drive rollers is parallel with the ground.
	Too much pickup speed.	Decrease the speed of the pickup.
Picking Up Stones	Wrong setting of the belt pickup height gauge wheel.	Lower the belt pickup height gauge wheels (12.5 mm [1/2 in] at a time) to increase the finger clearance to the ground.
	Too much pickup speed.	Decrease the speed of the pickup.
	Pitch of the pickup too flat.	Raise the belt pickup to increase the pitch.
Pickup Feeds Too High on Auger	Too much pitch on the pickup.	Lower the belt pickup.
	Hold-down fingers not adjusted right.	Adjust the hold-down fingers to provide more compression of the crop at the rear of the pickup.
Windrow Rolls Ahead of the Pickup	Windscreen too high.	Lower the windscreen.
	Too much pickup speed.	Decrease the speed of the pickup.
	Speed of the pickup too slow.	Increase the speed of the pickup.
Material Builds Up at the Pickup Stripper or Builds Up Between the Pickup Stripper and Auger	Speed of the pickup too slow.	Increase the speed of the pickup.

Troubleshooting

Symptom	Problem	Solution
	Belt pickup auger not adjusted properly.	Adjust the belt pickup auger down and forward.
Material Bunching on the Pickup	Wrong hold-down adjustment.	Raise the hold-down to the high position.
Belt Pickup Auger Plugging	Auger not adjusted right.	Increase the auger clearance to the belt pickup bottom. Check the auger fingers.
	Auger not floating.	Check both the left-hand and right-hand sides by lifting the auger.
Material Not Feeding Properly into the Feeder House	Short crop feeding conditions.	Adjust the auger to the belt pickup stripper, auger to the belt pickup bottom, or the auger flight extensions if required.
	Feeder house speed too slow.	Install the chain on the feeder house sprocket. Increase the feeder house speed (variable speed). <i>NOTE: Do not exceed 600 rpm on the feeder house backshaft when using the 38-tooth feeder house drive sprocket.</i>
Pickup Belts Tracking Poorly	Belt tension not adjusted correctly.	Adjust the belt tension.
	Air springs not inflated equally.	Inflate the air springs to equal pressure.
Pickup Belts Ripple, Wave, or Drift	Belt tension too high.	Adjust the belt tension.

OUO6041,0000FDF-19-08,JUL20

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 (AHC) [™] not enabled.	Enable Active Header Control (AHC) [™] mode that is desired in corner post display unit.
	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) is a trademark of Deere & Company.

Troubleshooting

Symptom	Problem	Solution
Active Header Control (AHC)TM Lowers But Will Not Raise.	Defective Active Header Control (AHC) TM relay or Active Header Control (AHC) TM card.	See your John Deere dealer.
Active Header Control (AHC)TM Raises But Will Not Lower	Defective Active Header Control (AHC) TM relay or Active Header Control (AHC) TM card.	See your John Deere dealer.
	Control shaft restricted.	Check for restriction.
	Auto drop rate valve closed.	Adjust in-line valve.
	Overinflated Air Springs.	Reduce Air Spring Pressure.
System Cycles or Hunts	Incorrect drop rate adjustment.	Adjust in-line valve.
	Incorrect accumulator setting.	See your combine operator's manual.
System Fails Intermittently After Manually Raising Header Over Obstacle.	System was deactivated.	To reactivate, press activation button in multi-function 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.

SS43267,000063A-19-06JUL15

Storage

End Of Season Service

Review your Operator's Manual.

OUO6041,0000EA3-19-19JUN20

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 combine.

NOTE: Air springs can remain at recommended pressure for storage.

Lubricate the belt pickup. Grease the threads on the adjusting bolts.

Clean the belt pickup thoroughly. Chaff and dirt will draw moisture and rust metal.

If the belt pickup is stored outside, remove the pickup belts and store in a dry cool place where they will not be damaged. Do not roll belts.

Paint all parts from which paint was worn.

If possible, shelter the belt pickup in a dry place, do not store attached to the combine.

Lubricate the chain.

BJN2CS6,00001E2-19-15JUL20

Beginning of Season Service

Open the side shield.

IMPORTANT: Do not use high-pressure washer spray directly on the 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 lubricate and run the combine.

Wash any dirt or debris off the machine that accumulated during storage.

Replace or adjust the belts and check the tension.

Adjust the chains to the proper tension.

Check the air spring pressure.

Lubricate the belt pickup as outlined in Lubrication and Maintenance section of this manual.

Verify that all the hardware is tightened to specification and all the cotter pins are spread.

Run the belt pickup at half-speed for a few minutes. Check for overheating bearings, fluid leaks, and belt tracking issues.

Calibrate the belt pickup to the machine (see Calibration and Settings section of this manual).

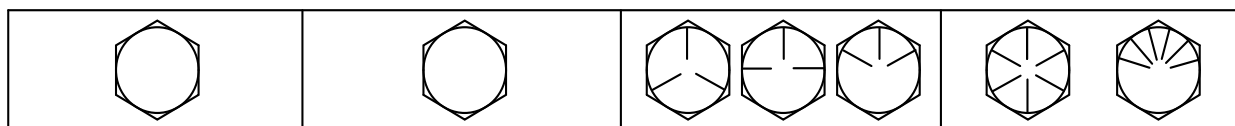
Specifications

Specifications

BP15 Model	
Transport Width	5348 mm (210-1/2 in)
Header Height Control	Hydraulic
Pickup Belts	
Width of Belts	1130 mm (44-1/2 in)
Belt Quantity	4 picking—4 transfer (8 total)
Total Picking Width	4546 mm (179 in)
Operating Speed of Belts	3—150 m/min (10—475 ft/min)
Number of Rollers	2 picking—2 transfer (4 total)
Pickup Fingers	
Type	Plastic
Number of Fingers per Belt	84 on center belts, 77 on outer belts
Auger	
Float Range	57 mm (2-1/4 in)
Diameter	662 mm (26 in)
Auger Fingers	Heavy-duty, round, 15.9 mm (5/8 in) diameter with breakaway notch
Number of Auger Fingers	19 STS (max 23)
Auger Finger Pattern	In-line, retracting
Finger Reach	152 mm (6 in)
Operating Speed	181 rpm at 520 rpm feeder house drive speed (15-tooth sprocket) 218 rpm at 520 rpm feeder house drive speed (18-tooth sprocket)
Tires	
Pressure	103 kPa (1 bar) (15 psi)
Approximate Shipping Weight (includes shipping skid)	
BP15 Belt Pickup	1655 kg (3650 lb)

OUC06041.0000FD6-19-08JUL20

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

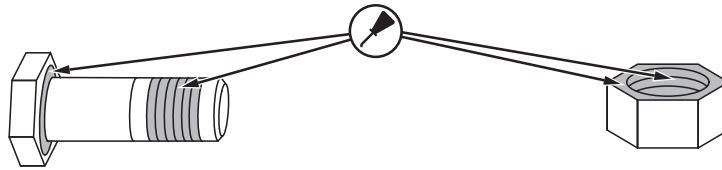
Specifications

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	
3/4	89.5	66	98	72.3	149	110	164	121	230	170	252	186	325	240	357	263
7/8	144	106	157	116	144	106	157	116	370	273	405	299	522	385	572	422
1	216	159	236	174	216	159	236	174	556	410	609	449	785	579	860	634
1-1/8	305	225	335	247	305	225	335	247	685	505	751	554	1110	819	1218	898
1-1/4	427	315	469	346	427	315	469	346	957	706	1051	775	1552	1145	1703	1256
1-3/8	564	416	618	456	564	416	618	456	1264	932	1386	1022	2050	1512	2248	1658
1-1/2	743	548	815	601	743	548	815	601	1665	1228	1826	1347	2699	1991	2962	2185

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench.
DO NOT use these values if a different torque value or tightening procedure is given for a specific application.
For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original.

- Make sure that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.



TS1741—UN—22MAY18

^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.

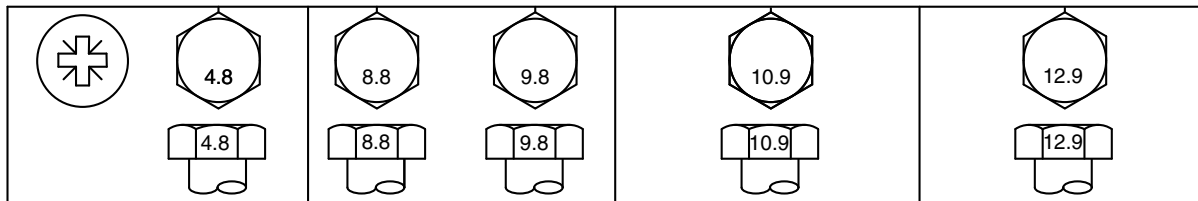
^bGrade 2 applies for hex cap screws (not hex bolts) up to 6 in (152 mm) long.

^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

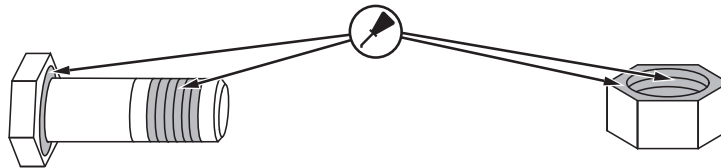
Specifications

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	
M14	—	—	—	—	87	64.2	96	70.8	128	94.4	141	104	150	111	165	122
M16	—	—	—	—	135	99.6	149	110	198	146	219	162	232	171	257	190
M18	—	—	—	—	193	142	214	158	275	203	304	224	322	245	356	263
M20	—	—	—	—	272	201	301	222	387	285	428	316	453	334	501	370
M22	—	—	—	—	365	263	405	299	520	384	576	425	608	448	674	497
M24	—	—	—	—	468	345	518	382	666	491	738	544	780	575	864	637
M27	—	—	—	—	683	504	758	559	973	718	1080	797	1139	840	1263	932
M30	—	—	—	—	932	687	1029	759	1327	979	1466	1081	1553	1145	1715	1265
M33	—	—	—	—	1258	928	1398	1031	1788	1319	1986	1465	2092	1543	2324	1714
M36	—	—	—	—	1617	1193	1789	1319	2303	1699	2548	1879	2695	1988	2982	2199

The nominal torque values listed are for general use only with the assumed wrenching accuracy of 20%, such as a manual torque wrench. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application.

Replace fasteners with the same or higher property class. If higher property class fasteners are used, tighten these to the strength of the original.

- Make sure that fastener threads are clean.
- Apply a thin coat of Hy-Gard™ or equivalent oil under the head and on the threads of the fastener, as shown in the following image.
- Be conservative with the amount of oil to reduce the potential for hydraulic lockup in blind holes due to excessive oil.
- Properly start thread engagement.



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

Identification Numbers

Identification Numbers

Your machine has these various identification plates. The letters and numbers stamped on the plates identify a component or assembly. ALL of these characters are needed when ordering parts or identifying a machine or component for any John Deere product support program. Also, they are needed for law enforcement to trace your machine if it is ever stolen. Accurately record these characters in the spaces provided in each of the following photographs.

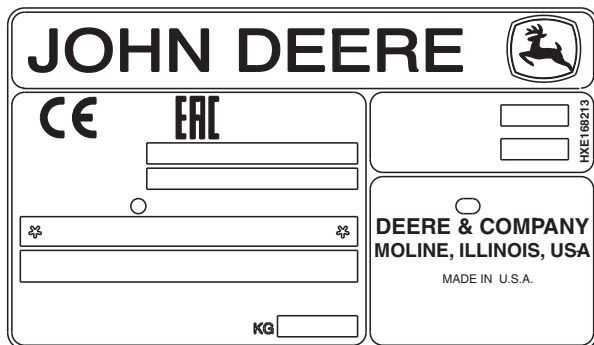
OJ06075,0004EB8-19-06JUL20

Identification Plate



H130701—UN—06JUL20

Sample Identification Plate



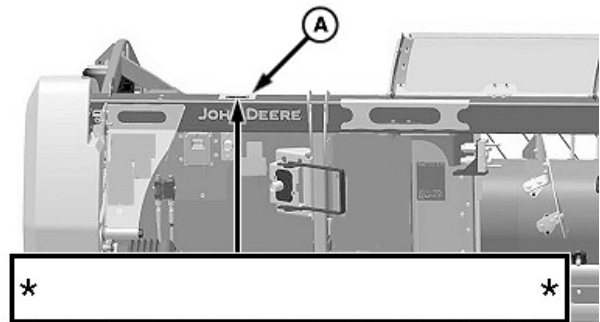
H130698—UN—06JUL20

Sample Identification Plate

NOTE: The identification plate varies depending on where the machine is shipped. Locate the identification plate and compare with the information shown here.

OJ06075,0004EB6-19-06JUL20

Identification Plate Location



H130724—UN—08JUL20

A—Identification Plate/Compliance Label

The identification plate (A) is located on the top of the left-hand side mainframe.

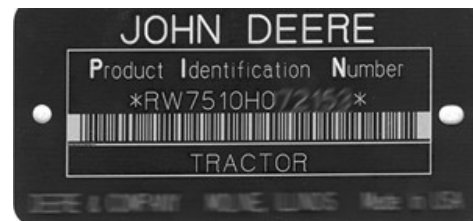
Eurasian Economic Union Compliance Label (If Required)

NOTE: This information applies only to products which bear the EAC conformity mark of the Eurasian Economic Union member states.

The compliance label (A) is located on the top of the left-hand side mainframe.

OJ06075,0004EC5-19-08JUL20

Keep Proof of Ownership



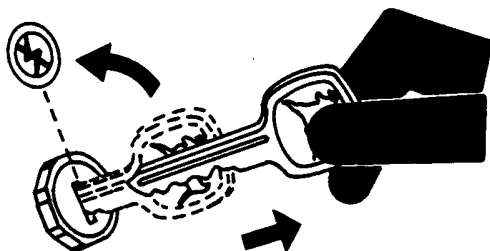
TS1680—UN—09DEC03

1. Maintain in a secure location an up-to-date inventory of all product and component serial numbers.
2. Regularly verify that identification plates have not been removed. Report any evidence of tampering to law enforcement agencies and order duplicate plates.
3. Other steps you can take:
 - Mark your machine with your own numbering system

- Take color photographs from several angles of each machine

DX,SECURE1-19-18NOV03

Keep Machines Secure



TS230—UN—24MAY89

1. Install vandal-proof devices.
2. When machine is in storage:
 - Lower equipment to the ground
 - Set wheels to widest position to make loading more difficult
 - Remove any keys and batteries
3. When parking indoors, put large equipment in front of exits and lock your storage buildings.
4. When parking outdoors, store in a well-lighted and fenced area.
5. Make note of suspicious activity and report any thefts immediately to law enforcement agencies.
6. Notify your John Deere dealer of any losses.

DX,SECURE2-19-18NOV03

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John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Publications are available in print or CD-ROM format.

Orders can be made using one of the following:

- John Deere Technical Information Store: **www.JohnDeere.com/TechInfoStore**
- Call 1-800-522-7448
- Contact your John Deere dealer

Available information includes:



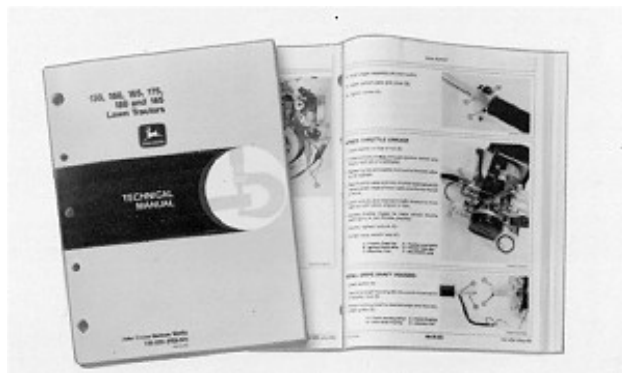
TS189—UN—17JAN89

PARTS CATALOGS list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.



TS191—UN—02DEC88

OPERATOR'S MANUALS providing safety, operating, maintenance, and service information.



TS224—UN—17JAN89

TECHNICAL MANUALS outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in a separate component technical manual.



TS1663—UN—10OCT97

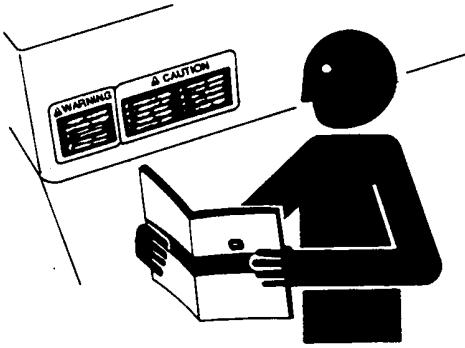
EDUCATIONAL CURRICULUM including five comprehensive series of books detailing basic information regardless of manufacturer:

- Agricultural Primer series covers technology in farming and ranching.
- Farm Business Management series examines “real-world” problems and offers practical solutions in the areas of marketing, financing, equipment selection, and compliance.
- Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
- Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.
- Fundamentals of Compact Equipment manuals provide instruction in servicing and maintaining equipment up to 40 PTO horsepower.

DX,SERV LIT-19-07DEC16

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/.

DX,IBC,2-19-02APR02