



DCY

600 C Series Corn Heads

OPERATOR'S MANUAL

600 C Series Corn Heads

OMH236210 ISSUE G8 (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.

John Deere Harvester Works
LITHO IN U.S.A.



OMH236210

Introduction

Introduction



H88912 —UN—14JUN07

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 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.

JK22594,000020C -19-20MAY08-1/1

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A John Deere ILLUSTRATION ® Manual

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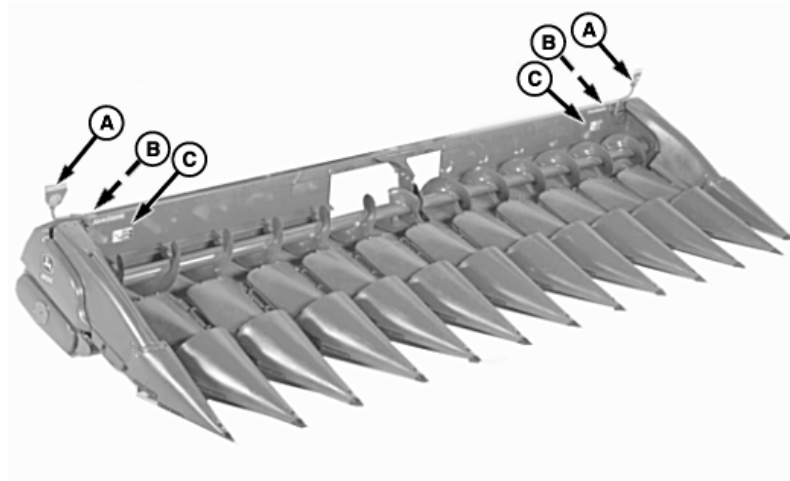
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Corn Head Safety Features

Corn Head Safety Features



A—Warning Lights

B—Reflective Materials

C—Safety Decals

In addition to the safety features shown here, safety signs on the corn head, and safety messages and instructions in the operator's manual contribute to the safe operation of

this corn head when combined with the care and concern of a capable operator.

JK22594,0000289 -19-20MAY08-1/1

H88918—UN—14JUN07

Safety

Recognize Safety Information

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.



T81389 —UN—07DEC88

DX,ALERT -19-29SEP98-1/1

Understand Signal Words

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.

⚠ DANGER

⚠ WARNING

⚠ CAUTION

TS187 —19—30SEP88

JK22594,00000DD -19-15AUG06-1/1

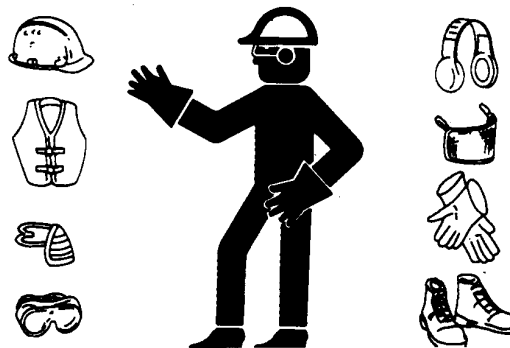
Wear Protective Clothing

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

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

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



TS206 —UN—23AUG88

JK22594,00000DE -19-15AUG06-1/1

Follow Safety Instructions

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.

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.



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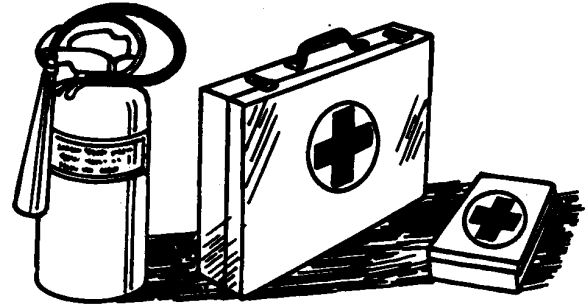
DX,READ -19-03MAR93-1/1

Prepare for Emergencies

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.



TS291 —UN—23AUG88

JK22594,00000DF -19-15AUG06-1/1

Store Attachments Safely

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.

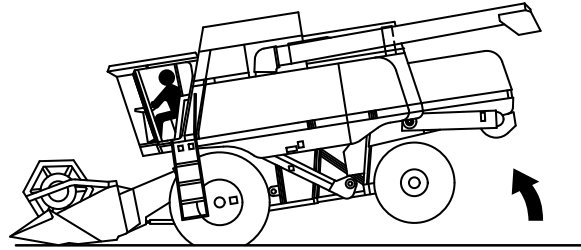


TS219 —UN—23AUG88

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Ballasting for Safe Ground Contact

Operating, steering and braking performance of the combine can be considerably affected by attachments which alter the center of gravity of the machine. To maintain safe ground contact, ballast the combine at the rear end as necessary. Observe the maximum permissible axle loads and total weights.



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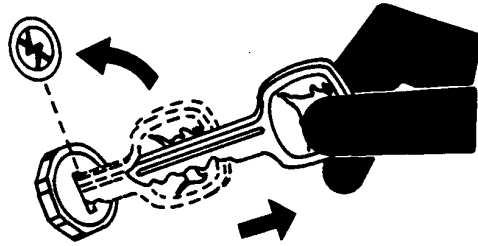
Parking and Leaving the Combine

Lower harvesting unit to the ground.

Before leaving the combine, disengage harvesting unit and separator. Shut off engine and move gear shift lever to neutral. Apply parking brake, remove key and lock the operator's cab.

Never leave combine unattended as long as engine is running.

Never leave the operator's cab when driving.



TS230 —UN—24MAY89

JK22594,00000E2 -19-15AUG06-1/1

Avoid Contact With Moving Parts

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



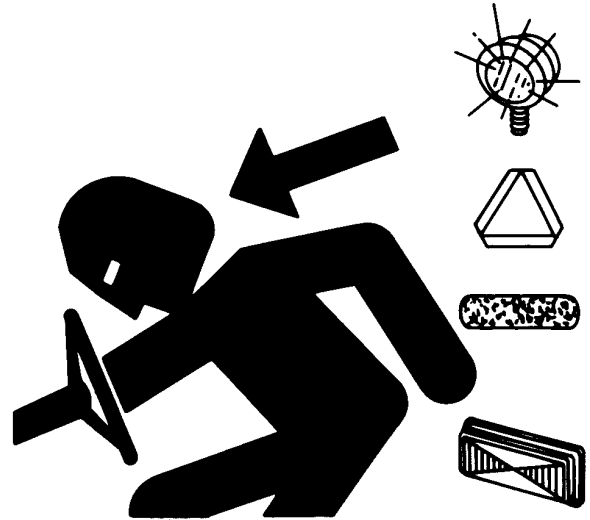
TS256 —UN—23AUG88

JK22594,00000E3 -19-15AUG06-1/1

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.



TS951 —UN—12APR90

DX,FLASH -19-07JUL99-1/1

Road Transport Disconnect Switch (Black)

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

When road transport disconnect switch is pressed, indicator light (B) will turn ON indicating switch is in road position. Road transport disconnect switch will prevent the following functions:

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

To reengage functions for field operation, press road transport disconnect switch again and indicator light will



A—Road Transport Disconnect Switch B—Indicator Light Switch

turn OFF allowing the desired function switches to operate again.

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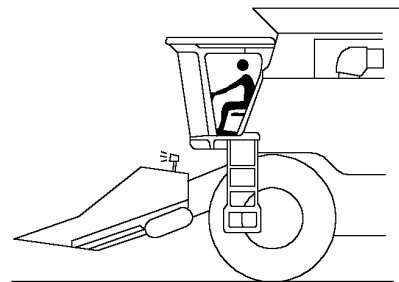
Transport Combine With Header Safely

Whenever possible avoid transporting on public roadways when the header is attached.

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

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

Drive at a speed that is safe for conditions.



H52024 —UN—15JUL99

JK22594,00000E4 -19-15AUG06-1/1

Stay Clear of Header

Stalk rolls of the corn head, etc., cannot be completely shielded by constructional measures due to their function. Always stay clear of these moving elements during operation! Always disengage header drive, shut off the engine and remove key before servicing or unclogging header.

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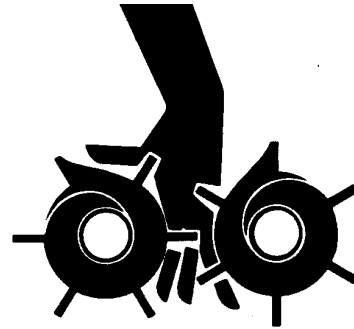
H42442 —UN—10JAN91

CRNHD,90SA,B -19-14AUG97-1/1

Avoid Entanglement

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

H45810



H45810 —UN—22JUL93

CRNHD,90SA,C -19-14AUG97-1/1

Stay Clear of Rotating Drivelines

Entanglement in backshaft rotating driveline can cause serious injury or death.

Keep driveline shields in place at all times.

Wear close fitting clothing. Stop the combine engine and be sure driveline is stopped before making adjustments, connections, or cleaning out header or its drive components.



TS1644 —UN—22AUG95

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Practice Safe Maintenance

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 from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

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

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

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

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



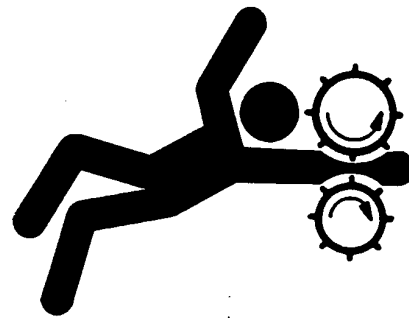
TS218 —UN—23AUG88

DX,SERV -19-17FEB99-1/1

Service Machines Safely

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.



TS228 —UN—23AUG88

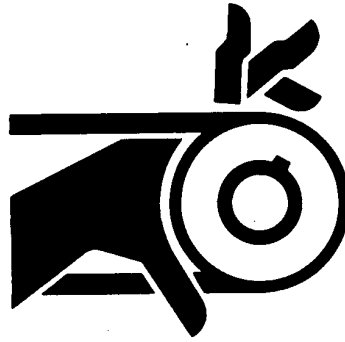
DX,LOOSE -19-04JUN90-1/1

Guards and Shields

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.



TS285 —UN—23AUG88

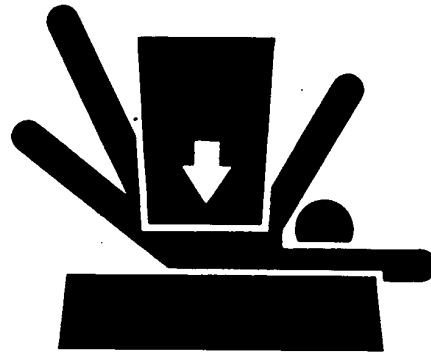
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Support Machine Properly

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.



TS229 —UN—23AUG88

DX,LOWER -19-24FEB00-1/1

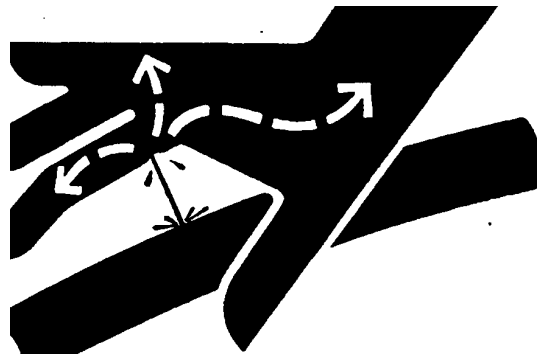
Avoid High-Pressure Fluids

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 from Deere & Company Medical Department in Moline, Illinois, U.S.A.



X9811 —UN—23AUG88

JK22594,00000E6 -19-15AUG06-1/1

Remove Paint Before Welding or Heating

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 -19-24JUL02-1/1

TS220 —UN—23AUG88

Avoid Heating Near Pressurized Fluid Lines

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 -19-10DEC04-1/1

TS953 —UN—15MAY90

Dispose of Waste Properly

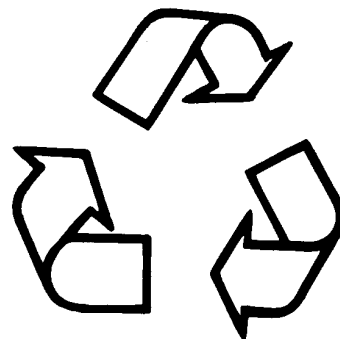
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



DX,DRAIN -19-03MAR93-1/1

TS1133 —UN—26NOV90

Replace Safety Signs

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

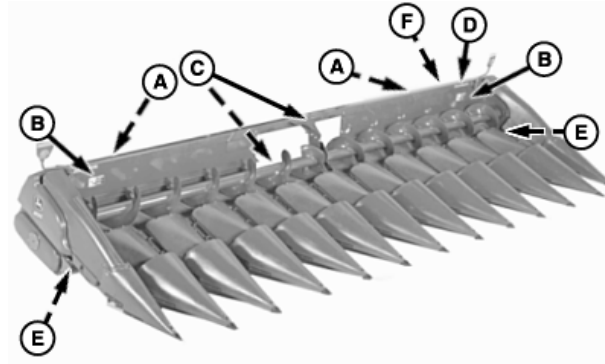


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DX,SIGNS1 -19-04JUN90-1/1

Safety Decal Location

Safety Decal Location



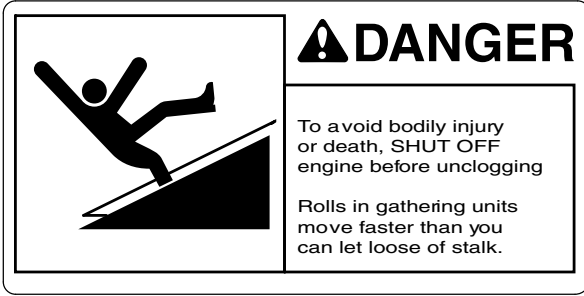
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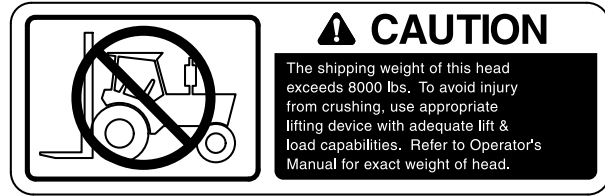
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B



SSH233141 —19—11OCT07

C



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D



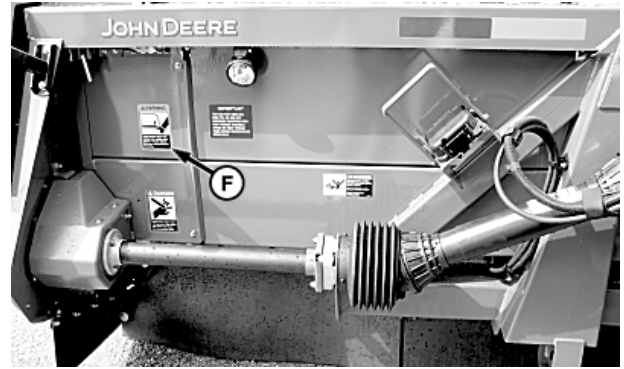
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Chopping Corn Head Safety Decal



Chopping Corn Head Safety Decal



F

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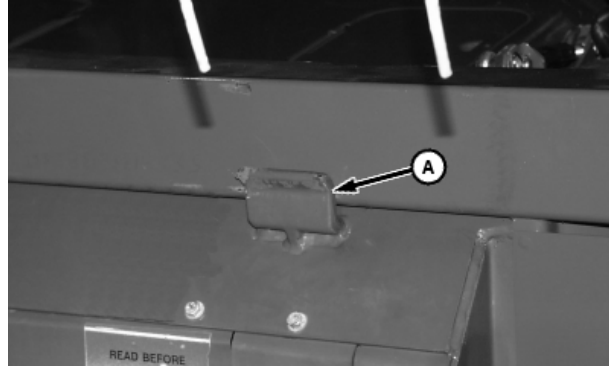
Attaching and Detaching

Attaching Corn Head to Feeder House

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

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

1. Sound horn, start engine and lower feeder house.
2. Drive combine slowly forward until feeder house is centered in attachment frame opening.
3. Raise platform completely, making sure two hooks (A) on feeder house catch front side of main frame beam of platform.
4. Set parking brake, shut off engine, remove key and lower safety stop.



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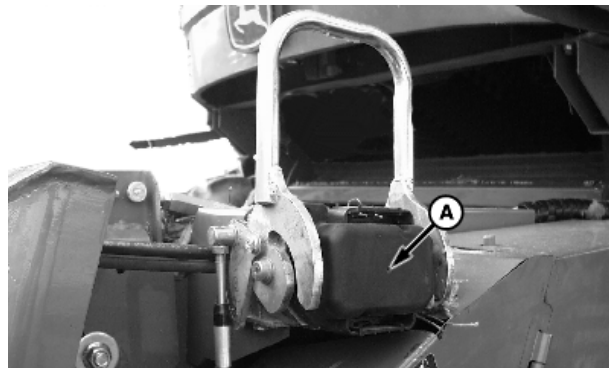
A—Hook (2 on feeder house)

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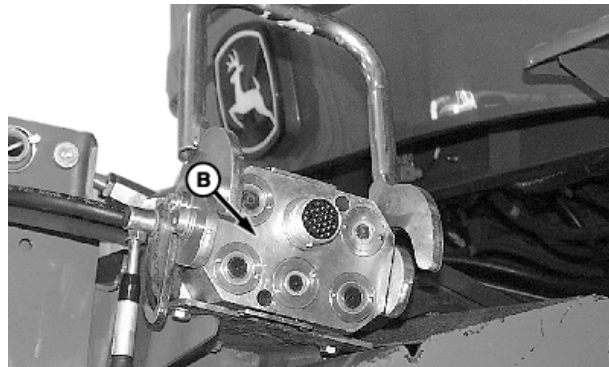
5. Remove cover (A) and clean multi-coupler face (B).

A—Cover

B—Multi-coupler Face



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H74037 —UN—05NOV02

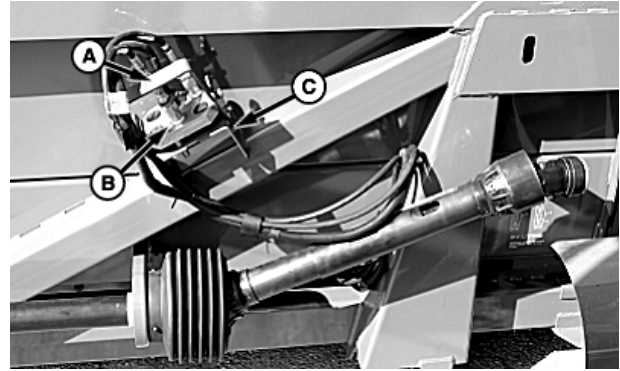
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JK22594,0000237 -19-31JUL07-2/9

6. Open handle (A) and remove multi-coupler (B) from storage bracket (C).

A—Handle
B—Multi-coupler

C—Storage Bracket



H89199 —UN—12JUL07

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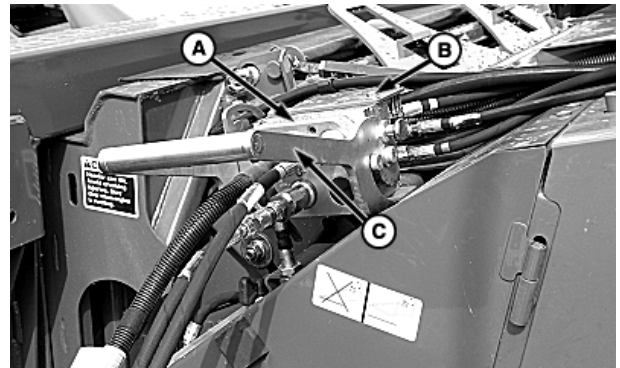
NOTE: To prevent damage to latching cable, a shear screw is attached to the handle. Attempts to actuate latching pins with header on ground will shear the screw on the handle. (See Extra Shear Screw Location later in this section.)

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

7. Install multi-coupler (A) onto receptacle (B) and close handle (C).

A—Multi-coupler
B—Receptacle

C—Handle



H89284 —UN—20JUL07

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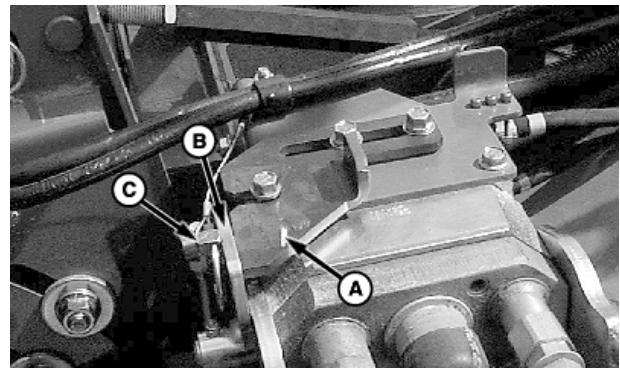
Machines Equipped with Slide Lock Multi-couplers

IMPORTANT: Failure to slide lock plate through multi-coupler assembly could result in the header falling off while harvesting or transporting.

When multi-coupler handle is closed, slide lock plate (A) through multi-coupler latch assembly (B) and retain with quick-lock pin (C).

A—Lock Plate
B—Multi-coupler Latch Assembly

C—Quick-Lock Pin



Slide Lock Plate Equipped

H81286 —UN—23JUN04

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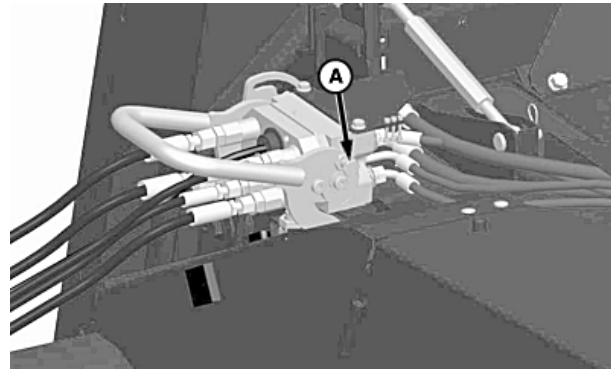
JK22594,0000237 -19-31JUL07-5/9

Machines Equipped with Button Lock Multi-couplers

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

1. When multi-coupler handle is fully closed, button lock (A) will automatically lock couplers together.

A—Button Lock



H82373 —UN—07FEB05

Button Lock Equipped Latch

JK22594,0000237 -19-31JUL07-6/9

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

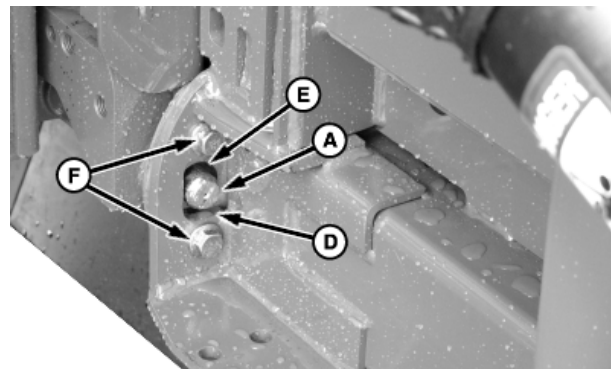
3. **If adjustment is needed:** Remove cap screws (F), flip plate (D) end for end and reinstall.

4. Tighten cap screws to M12 specification.

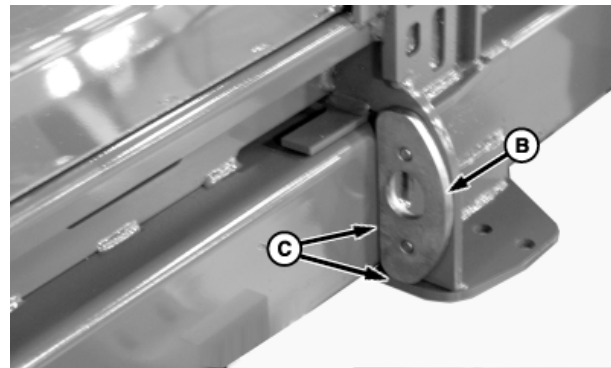
Specification

M12 Cap Screws—Torque..... 130 N·m
(96 lb-ft)

A—Latch Pin
B—Latching Plate
C—Bottom Bracket
D—Gap
E—Top Of Plate
F—Cap Screws



H89285 —UN—20JUL07



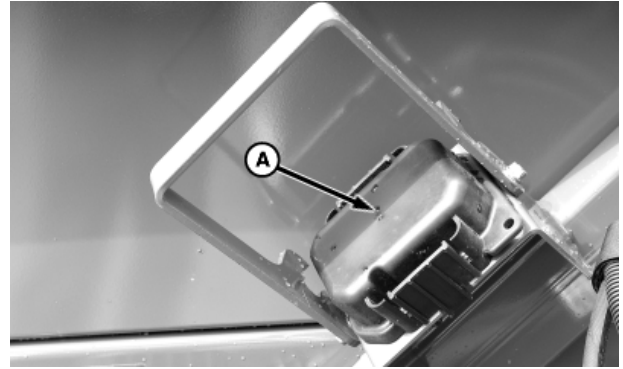
H89291 —UN—20JUL07

Continued on next page

JK22594,0000237 -19-31JUL07-7/9

5. Install multi-coupler cover (A) on platform storage position.

A—Cover



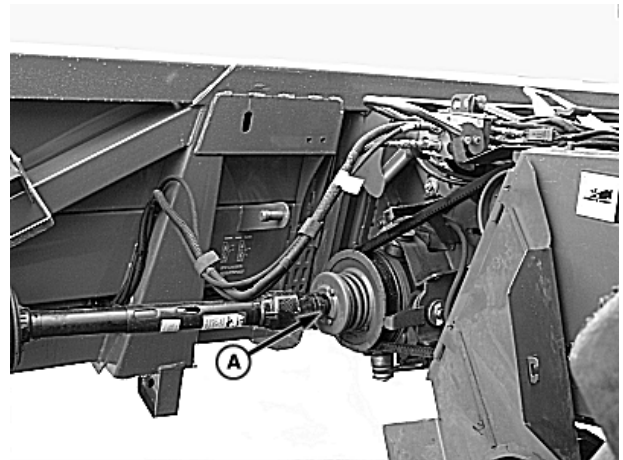
Storage Position

H89283 —UN—20JUL07

JK22594,0000237 -19-31JUL07-8/9

6. Remove telescoping shaft (A) from storage position and install onto feeder house backshaft, making sure quick attach collar locks fully.

A—Telescopic Shaft



H89395 —UN—31JUL07

JK22594,0000237 -19-31JUL07-9/9

Detaching Corn Head from Feeder House

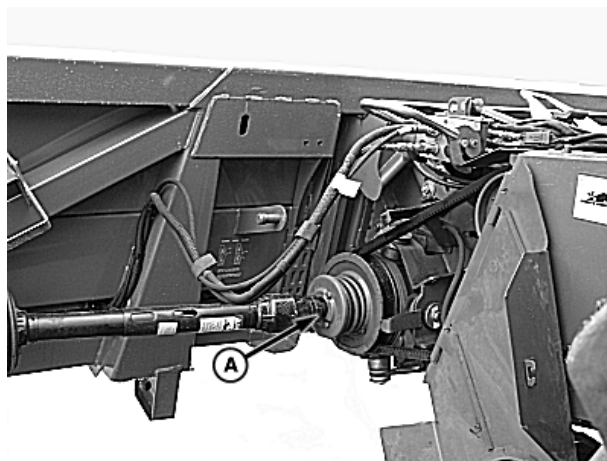
CAUTION: Do not leave drive shafts on combine. Personal injury or machine damage may occur if feeder house is accidentally engaged.

1. Disconnect telescoping drive shaft from feeder house at the quick disconnect coupler (A) on left-hand side of feeder house.
2. Place telescoping drive shaft in storage position (B).

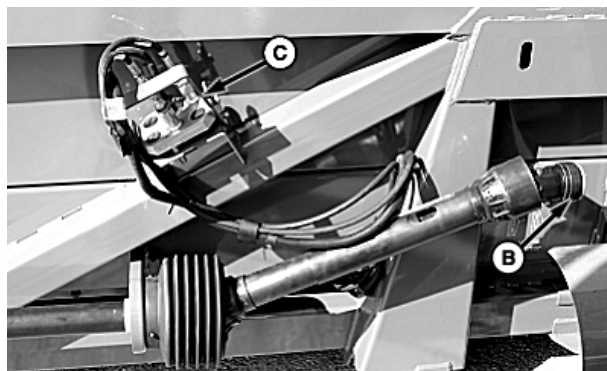
IMPORTANT: Latch pins are not to be actuated with header on the ground. If multi-coupler must be actuated with header on ground, unhook cable from handle.

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

3. Remove quick-lock pin and slide lock plate through multi-coupler latch assembly.
4. Raise handle to disconnect multi-coupler.
5. Remove multi-coupler cover from storage position on header and place cover on combine multi-coupler.
6. Disconnect multi-coupler from combine and place in storage position (C).



H89395 —UN—31JUL07



H89200 —UN—12JUL07

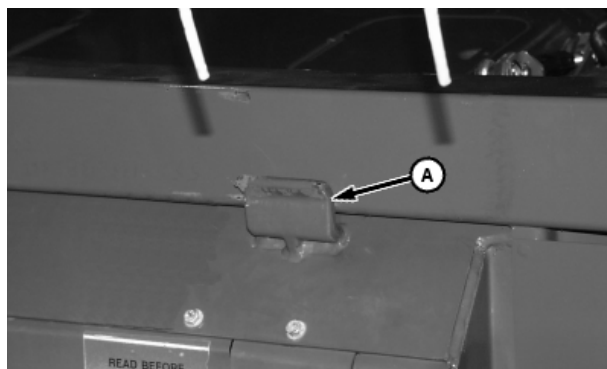
A—Quick Disconnect Coupler
B—Storage Position

C—Multi-coupler Storage Position

JK22594,0000238 -19-31JUL07-1/2

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

A—Hooks (2 on feeder house)



H70033 —UN—19SEP01

JK22594,0000238 -19-31JUL07-2/2

Single Point Latching—Adjusting

NOTE: CONTOUR MASTER Feeder House: Adjustments should only be made to cable at multi-coupler handle.

Level Land Feeder House: Adjustments should only be made to cable at multi-coupler handle, unless cable is not centered at lower end (latch pin location). See Level Land Feeder House Lower End Cable—Adjusting.

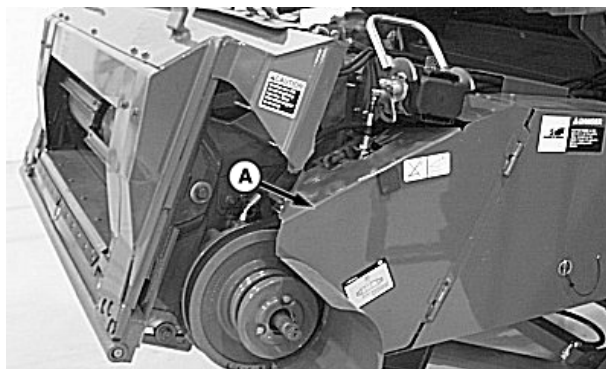
1. Open left-hand feeder house shield (A).
2. Loosen cable jam nuts (B).

IMPORTANT: Verify handle is against stop on multi-coupler. Failure to verify handle is against the stop will result in inaccurate pin dimensions and could result in the header falling off while harvesting or transporting.

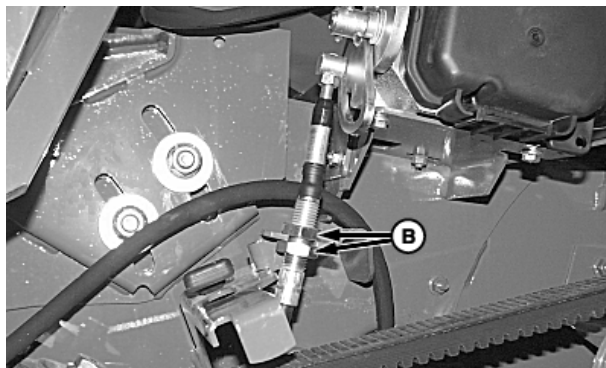
3. Rest multi-coupler handle against stop.

A—Shield

B—Jam Nuts



H78649—UN—17OCT03



H78650—UN—17OCT03

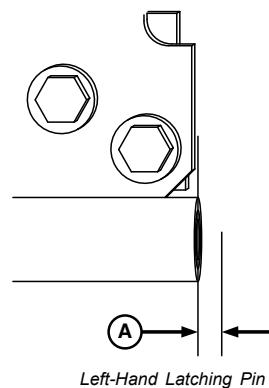
JK22594,0000094 -19-27JUL06-1/4

NOTE: Moving cable “up” in bracket pulls pin farther in.

Moving cable “down” in bracket pushes pin farther out.

4. Adjust cable in bracket as needed for proper pin adjustment:
 - Left-hand latching pin should be flush to +/- 2 mm (A).

A—Dimension



Left-Hand Latching Pin

H79344—UN—10DEC03

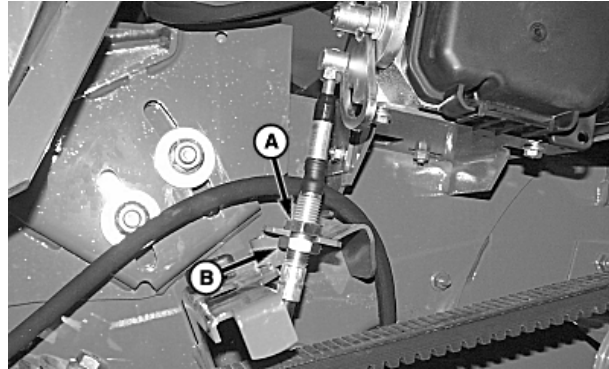
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JK22594,0000094 -19-27JUL06-2/4

5. Hold bottom jam nut (B) and tighten top jam nut (A).

A—Top Jam Nut

B—Bottom Jam Nut



H81289 —UN—23JUN04

JK22594,0000094 -19-27JUL06-3/4

IMPORTANT: Failure to verify pins are set to specified dimensions and could result in the header falling off while harvesting or transporting.

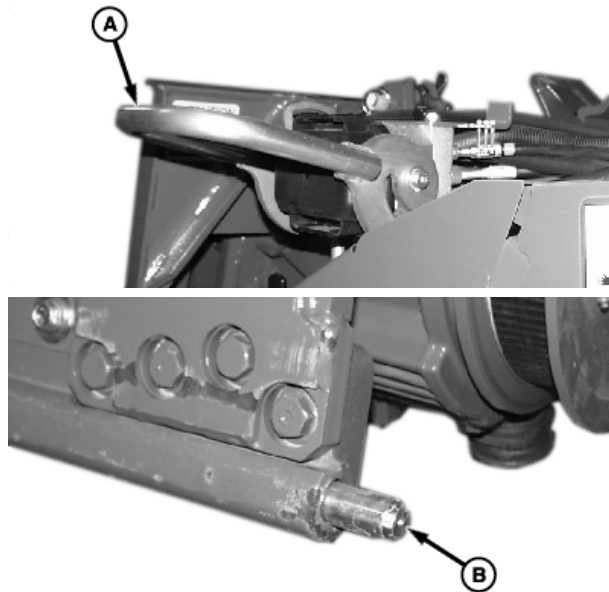
6. Fully lower multi-coupler handle (A) and verify pins (B) (both sides) are set to specification. Readjust if not set to specification.

Specification

Feeder House Pins—Distance 45 — 52 mm
(1-3/4 in. — 2 in.)

A—Multi-coupler Handle

B—Pins



H81287 —UN—23JUN04

H81288 —UN—23JUN04

JK22594,0000094 -19-27JUL06-4/4

Level Land Feeder House Lower End Cable—Adjusting

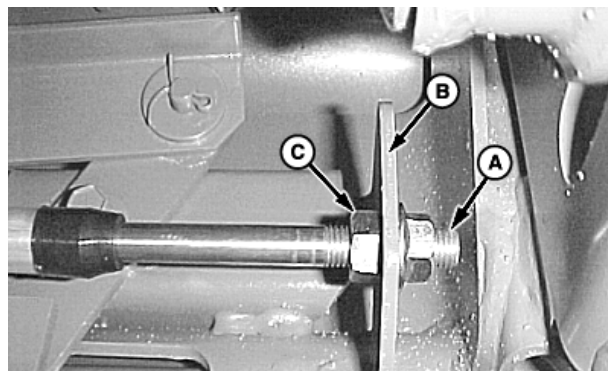
Adjustments should be made to the lower end of the latching cable if the threads (A) are not centered in the bracket (B).

Loosen jam nuts (C) and adjust cable so that threads are centered in bracket.

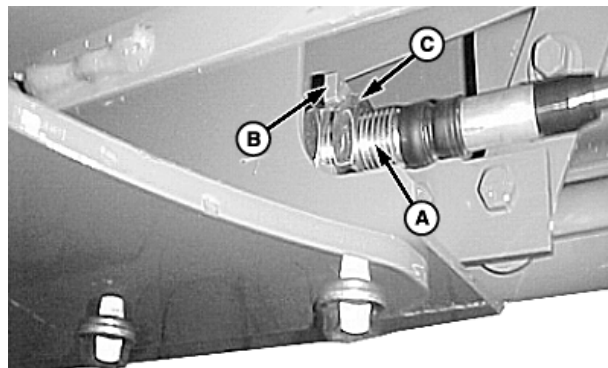
Tighten jam nuts.

A—Threads
B—Bracket

C—Jam Nuts



H79380—UN—10DEC03



H79389—UN—10DEC03

MH81805,0000700 -19-17MAR05-1/1

Feeder House Latching Pins (Cleanout)

If latch pins are hard to move, remove cap screws (A) and cleanout pin area. It may be necessary to fully tilt the feeder house frame in order to access these cap screws.

A—Cap Screw



H74309—UN—18NOV02

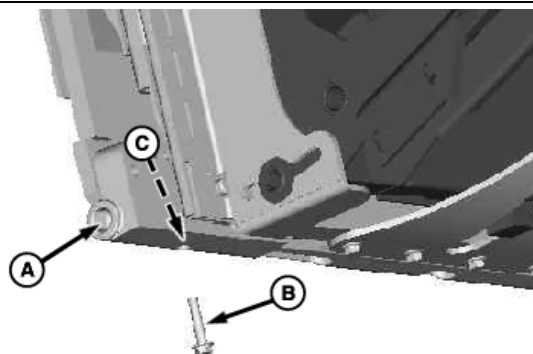
MH81805,0000701 -19-17MAR05-1/1

Feeder House Manual Unlatching

To remove header if shear screw should fail, push latching pins (A) through latch plates and install M12 cap screw (B) in hole (C). Repeat on opposite side.

A—Latching Pins
B—Cap Screw

C—Hole



H74310—UN—18NOV02

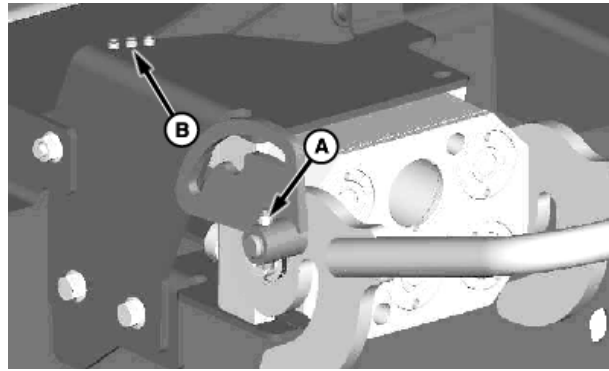
MH81805,0000702 -19-17MAR05-1/1

Latching Cable Shear Screw Location

If shear screw (A) should break, remove and replace with extra shear screw (B). Three extra shear screws have been provided.

A—Shear Screw

B—Extra Shear Screws



MH81805,0000703 -19-17MAR05-1/1

Attaching and Detaching Corn Head to Forage Harvester or Corn Husker

For attaching or detaching corn head on a forage harvester or a corn husker, see the operator's manual for that machine.

JK22594,0000095 -19-27JUL06-1/1

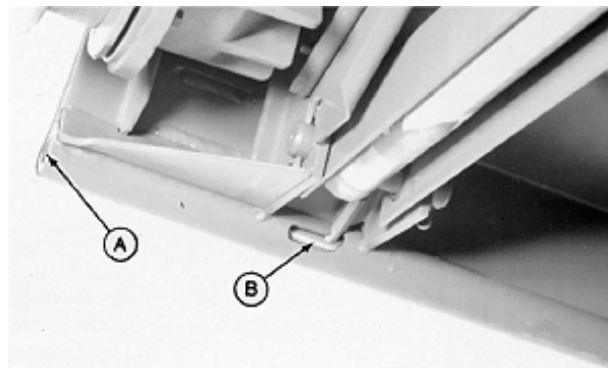
Retrofit Head to Pre 60 Series Combine

Attaching Corn Head to Pre 60 Series Combines

In order to attach a corn head to an older combine conversion bundles are required. See your John Deere Dealer for the proper bundle(s).

IMPORTANT: Avoid damage to platform and feeder house, latch pins (A) (both sides) must be in the IN position before attaching header (as shown).

Slide stop bolt (B) in and then rotate up. If pins are in the OUT position, feeder house will be damaged when header is attached.



H41118 —UN—18JUN01

A—Latch Pin

B—Stop Bolt

JK22594,00000BA -19-07AUG06-1/1

Transporting

Transporting Corn Head on a Trailer

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

IMPORTANT: Whenever possible avoid transporting the combine with the corn head attached. Instead, transport the corn head on a truck or header trailer.

Follow the header trailer manufacturer's recommendations regarding safe transport procedures. In absence of such instructions follow these guidelines:

- Do not transport at speeds greater than 32 km/h (20 mph) on a trailer not equipped with brakes and 40 km/h (25 mph) on a trailer equipped with brakes.
- Always attach a properly sized safety tow chain.
- Always make sure a slow moving vehicle emblem is mounted to the rear of the trailer or header.
- Always make sure that the rear of the trailer is equipped with red reflectors, two red taillights and turn signals.

Reference combine Operator's Manual for combine transporting procedures.

If equipped with ACTIVE HEADER HEIGHT CONTROL (AHHC)[™] ground sensors, the

ACTIVE HEADER CONTROL is a trademark of Deere & Company



Points Folded for Transporting

sensors must be placed in storage position to prevent equipment damage when folding points (see next page for procedures).

To reduce transport width, points should be in upwards position (see Points Folded for Transport illustration).

H88843 —UN—31JUL07

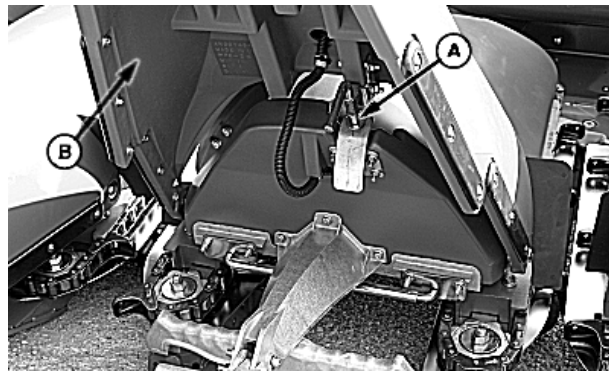
GENERIC,0000005 -19-20MAY08-1/5

1. Center Gatherer Shields

Raise point (B) and latch (A).

A—Latch

B—Point



H88847 —UN—24JUL07

Continued on next page

GENERIC,0000005 -19-20MAY08-2/5

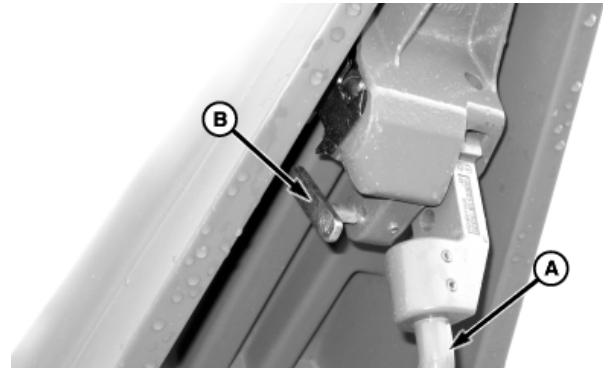
IMPORTANT: If equipped with **ACTIVE HEADER HEIGHT CONTROL (AHHC)** ground sensors, the sensors must be placed in storage position to prevent equipment damage when folding points.

2. Place in storage position.

Equipped with ACTIVE HEADER HEIGHT CONTROL (AHHC): Rotate sensor arm (A) up into storage position and retain with storage lock pin (B).

A—Sensor Arm

B—Storage Lock Pin

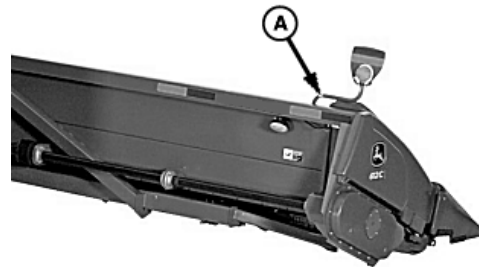


H89282 —UN—24JUL07

GENERIC,0000005 -19-20MAY08-3/5

3. Rotate header warning lights (A) rearward.

A—Warning Light



H91760 —UN—20MAY08

GENERIC,0000005 -19-20MAY08-4/5

4. **Outer Gatherer Shields** Raise point until latch pin (A) engages. To lower, pull latch and lower point.

A—Latch



H89293 —UN—20JUL07

GENERIC,0000005 -19-20MAY08-5/5

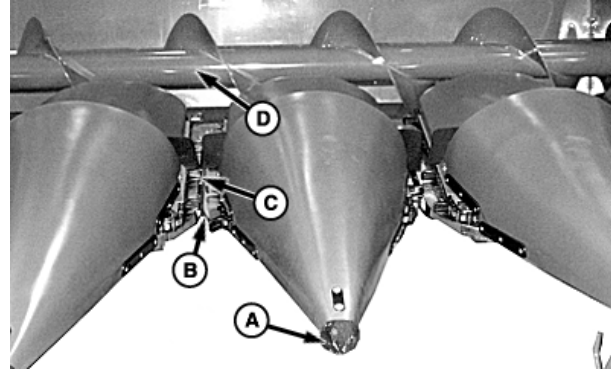
Operating Header

General Information

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

When an ear of corn reaches the deck plate, the ear is prevented from going through because of the narrow opening. The stalk rolls continue to pull on the stalk and snap the ear free of the stalk.

Gatherer chains (C) catch the ears and carry them to an auger (D) which delivers the ears to the feeder conveyor. The feeder conveyor delivers the ears to the threshing cylinder.



H89415—UN—01AUG07

A—Gatherer Point
B—Stalk Rolls

C—Gatherer Chain
D—Auger

JK22594,000023F -19-01AUG07-1/1

Starting in the Field

Operate the combine in a lower gear until you become familiar with the corn head.

After making several rounds, stop the corn head and shut off engine and remove key. Check all bearings for heating. All bolts must be tight and chains properly adjusted.

MH81805,0000708 -19-17MAR05-1/1

Adjust Corn Head Properly

After making several rounds, check adjustments on corn head and combine. (See "ADJUSTMENTS").

MH81805,0000709 -19-17MAR05-1/1

Drive and Operate Carefully

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

Listen for slipping clutches or other unusual noises. If the corn head becomes plugged, clean it out by keeping

engine at operating speed, but decrease ground speed until header has been cleared.

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

MH81805,000070A -19-17MAR05-1/1

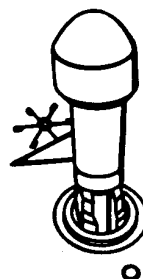
Corn Head Engage/Disengage Drive

NOTE: To engage the header, operator must be in the operator seat before engaging the separator and head switches.

To engage header.

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

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



H43694

Header Engage Switch (9000 and 10 Series Combines)



70 Series Shown

H43694 —UN—06AUG91

H89636 —UN—15AUG07

GENERIC,0000008 -19-20MAY08-1/1

Corn Head Drive Speeds

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

If ground speed is too fast, gathering chains will push stalks forward and knock off ears. If ground speed is too

slow, gathering chains will jerk stalks back into the corn head, possibly shearing off stalks or knocking off ears.

MH81805,000070C -19-17MAR05-1/1

50, 60 and 70 Series Combines with Variable Speed Feeder House

The corn head drive speed is varied by changing the speed of the lower feeder house shaft. Lower feeder house shaft speed is changed with reel switch (A) located on the multifunction control handle.

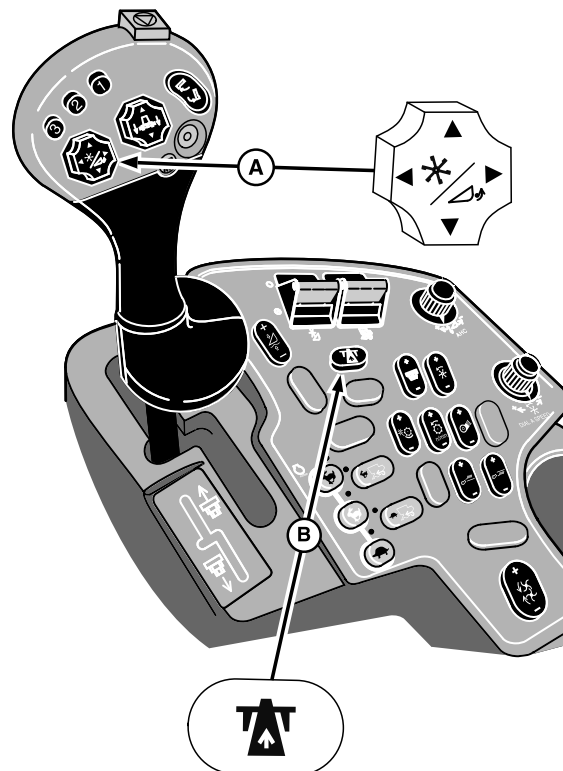
To operate reel switch, the road transport disconnect switch (B) must be in field position.

Push and hold the top of switch to increase speed, push and hold bottom of switch to decrease speed.

Engine and header must be running to adjust speed.

A—Reel Switch

B—Road Transport Disconnect Switch



H74734 —UN—18MAR03

JK22594,0000222 -19-19JUN07-1/1

9400, 9410, 9500, 9510, 9600 and 9610 Combines With Variable-Belt-Drive Feeder House

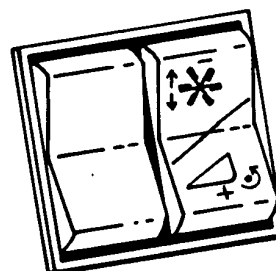
Corn head drive speed is varied by changing speed of the lower feeder house shaft. Lower feeder house shaft speed is changed with the plus (+) or minus (-) switch located on the hydro handle.

Push and hold the bottom of switch to increase speed, push and hold top of switch to decrease speed.

Engine and header must be running to adjust speed.

Shaft speed of variable drive equipped feeder house ranges from approximately 630 to 780 RPM.

Use the following table as a guide in matching corn head speed to combine travel speed:



H43707

H43707 —UN—06AUG91

	Approximate Combine Travel Speed	Approximate Lower Feeder House Shaft Speed
less than:	6.4 km/h (4.0 mph)	630 rpm
	8.9 km/h (5.5 mph)	710 rpm
greater than:	11.3 km/h (7.0 mph)	780 rpm maximum

JK22594,0000240 -19-20JUL07-1/1

Combines With Fixed-Speed Feeder House

Refer to adjustments Section for modifying header speed on fixed speed feeder house combine.

JK22594,0000241 -19-20JUL07-1/1

Harvesting Corn With Weakened or Broken Stalks

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

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

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

NS43404,0000046 -19-19MAY08-1/1

Harvesting Popcorn

- Adjust deck plates as close as possible
- Check combine operator's manual for correct settings

- Raise cross auger so the largest diameter ear passes between flighting and floor without contact
- Decrease header backshaft speed

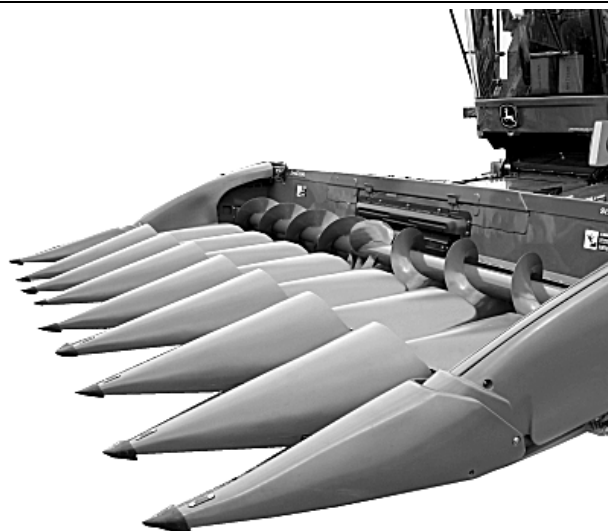
OUO6043,0001C82 -19-03JAN08-1/1

Gatherers

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

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

Adjust all points level with one another.



H89417—UN—01AUG07

JK22594,0000242 -19-13AUG07-1/1

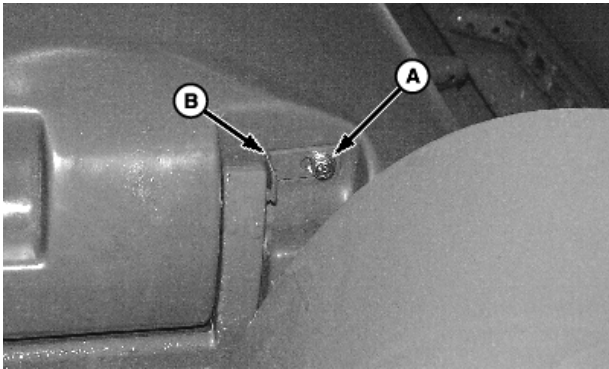
Raising and Removing Center Gatherer Shields and Points.

- 1. Loosen cap screw (A) on the rear of the gatherer shield and raise stop (B) to the vertical position.

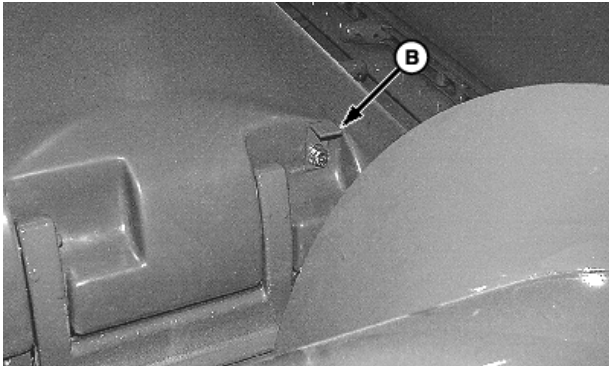
NOTE: Do not over tighten cap screw (A).

Specification	
Gatherer Shield Stop Cap Screw—Torque.....	20 N·m (15 lb-ft)

A—Cap Screw B—Stop



H85642 —UN—03APR06



H85643 —UN—03APR06

Continued on next page

OUC6043,0001C83 -19-20MAY08-1/2

2. Raise point and retain using pin (A). Pull latch bar (B) and lift point.
3. IF EQUIPPED: Disconnect ACTIVE HEADER CONTROL sensor wiring harness connector (C) from main wiring harness connector. Connector is located inside of the deck cover, near the through hole. Cut tie band attached to the rear of the cover, and then pull connector out to access.

CAUTION: The center shield and point assembly is heavy and awkward to handle.

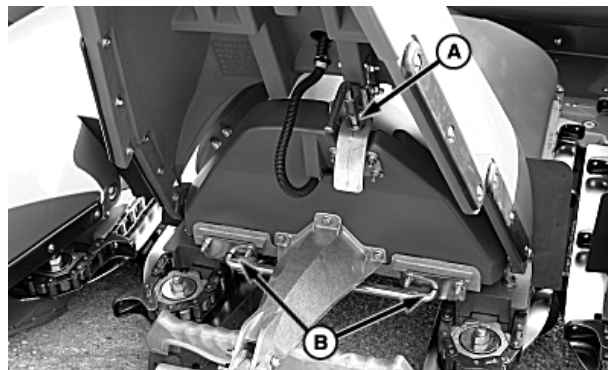
4. Slide the gatherer shield to right-hand side until shield is free of support pins (D), lift off point and gatherer shield assembly.

A—Pin

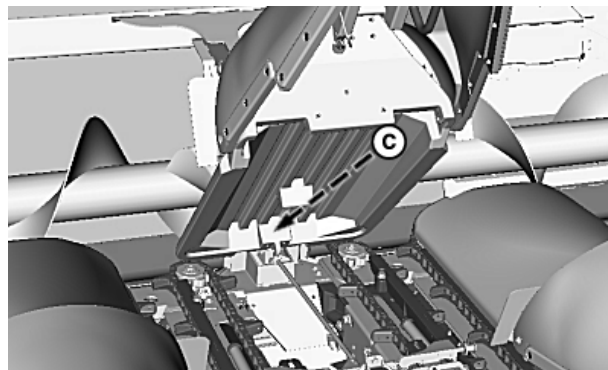
B—Latch Bar

C—Harness Connector

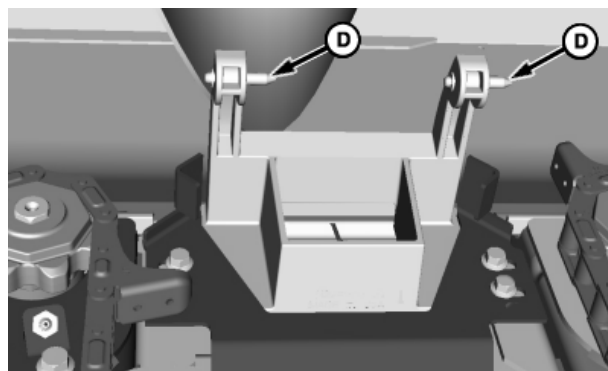
D—Support Pins



H89294 —UN—20JUL07



H90495 —UN—04JAN08



H91766 —UN—20MAY08

OUC6043,0001C83 -19-20MAY08-2/2

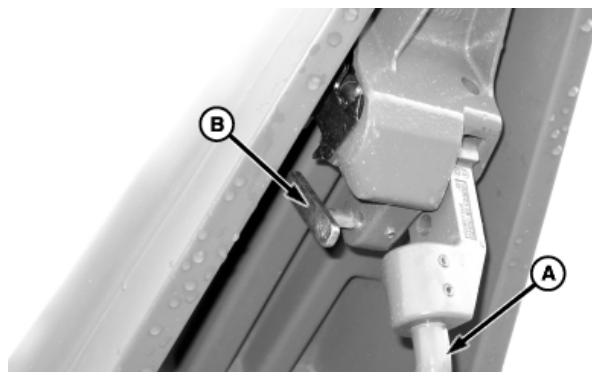
Lowering ACTIVE HEADER CONTROL Ground Sensors (Optional)

Support sensor arm (A) and pull storage pin (B) out to unlock sensor arm.

Storage lock pin should remain in locked out position for field operation.

A—Sensor Arm

B—Storage Lock Pin



H89282 —UN—24JUL07

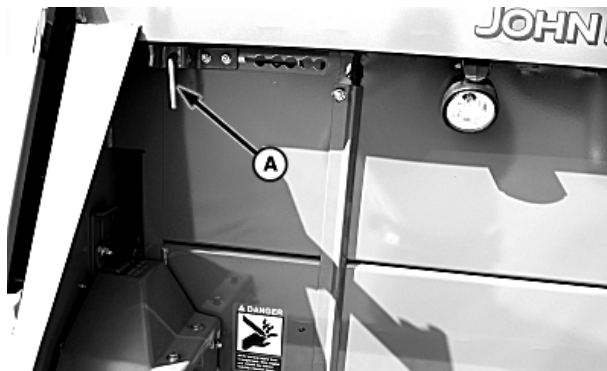
JK22594,0000245 -19-23JUL07-1/1

Raising and Tilting End Fenders and Points

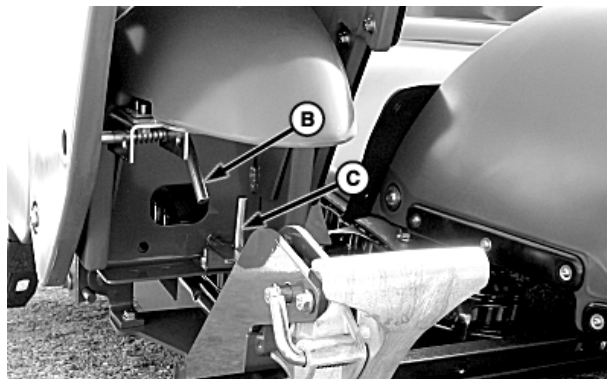
1. Release latch pin (A) and rotate to locked position.
2. Raise outer point until pin (B) latches.
3. Release pins (C) and rotate gatherer shield and point outward.

A—Locking Latch Pin
B—Latch Pin

C—Latch Pin



H88426 —UN—24JUL07



H88427 —UN—23JUL07

NS43404,0000047 -19-19MAY08-1/1

Ear Savers

Ear savers (A) prevent loose ears from sliding over the gatherer chains to the ground.

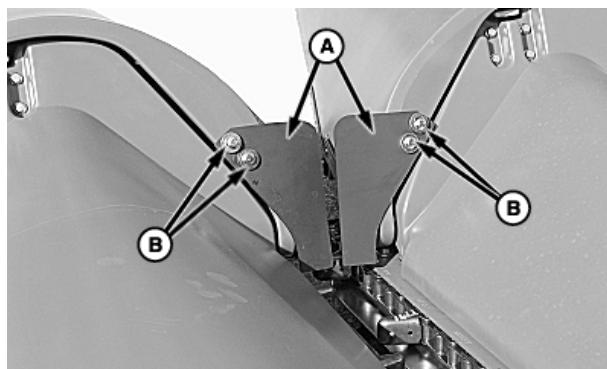
In down corn, or if stalks tend to plug up at the gatherer throat opening, remove ear savers. Retain ear savers and hardware.

In standing corn, replace ear savers to prevent ear loss.

Replace ear savers as follows:

Remove cap screws (B) attaching ear savers and remove ear savers.

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



H89201 —UN—12JUL07

A—Ear Savers

B—Cap Screws

Specification

Cap Screws—Torque.....20 N·m—25 N·m
(15 lb-ft—18 lb-ft)

JK22594,0000247 -19-10SEP07-1/1

Row Units

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

JK22594,0000281 -19-15AUG07-1/1

Stalk Rolls

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

To help you decide which stalk rolls are best suited for your needs, see the following guidelines.

Knife Stalk Rolls

Are recommended if your need is to cut and size corn stalks (10 - 16 in. length) at harvest for the following reasons:

- Faster residue breakdown.
- Earlier soil warm up and dry out.
- Improved handling of residue by tillage and planting equipment, especially in high yielding corn (150 bu/ac plus).
- Desire to reduce passes needed for shredding, cutting or sizing stalks with other implements.

- Knife stalk rolls perform well in all conditions.
- Knife rolls work better in damp tough and high moisture conditions.
- Knife rolls also work better in heavy grass, vines and weeds.

Straight Fluted Stalk Rolls

Are recommended if:

- You want to reduce corn head cost.
- Slow residue breakdown.
- Maximize residue at planting time.
- Trap more snow/conserves moisture.
- Have better residue flow through narrow spaced drills when no-tilling.
- To get more complete shredding with a flail shredder.
- Straight fluted stalk rolls perform well in moderate dry, brittle conditions where the stalks break off at or slightly below the ear.

NS43404,0000049 -19-19MAY08-1/1

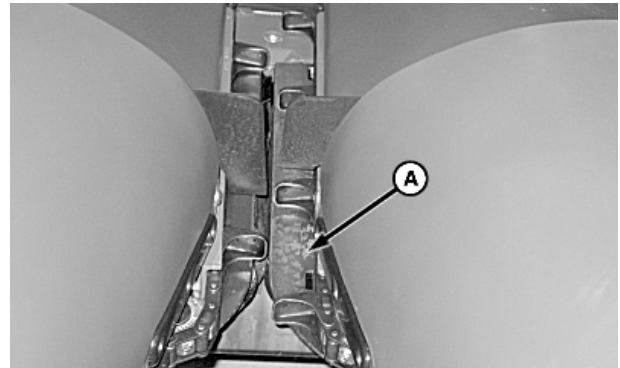
Hydraulic Adjustable Deck Plates

NOTE: To adjust or calibrate your deck plate, see your Combine Operator's Manual.

Hydraulic adjustable deck plate (A) allows operator to adjust deck plates within the cab for varying stalk and ear size to prevent grain loss from the head.

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

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



H89701 —UN—21AUG07

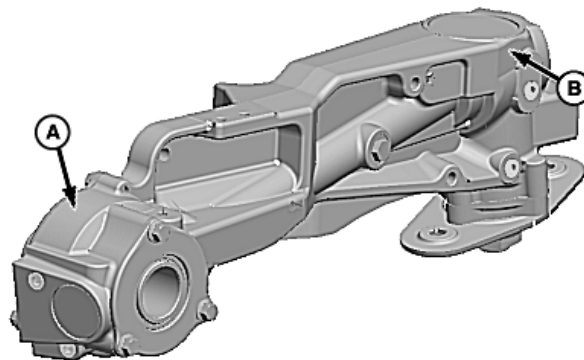
NS43404,000004A -19-19MAY08-1/1

StalkMaster™ Chopping Gear Cases (Optional)

Factory installed corn stalk choppers are available for models 606C-SM, 608C-SM and 612C-SM headers.

Chopping gear cases have two reservoirs that are filled with 80W90 GL-5 oil from the factory.

IMPORTANT: Replacement gear cases purchased through service parts are shipped dry. Be sure to fill any replacement gear cases with oil to specification before operating machine.



H91761 —UN—20MAY08

A—Rear Gear Case Reservoir B—Front Gear Case Reservoir

Item	Measurement	Specification
Rear Gear Case Reservoir (A)	Capacity	325 mL (11 oz)
Front Gear Case Reservoir (B)	Capacity	400 mL (13.5 oz)

Each reservoir is equipped with a drain plug and an oil check/fill plug that need to be removed to fill or drain the reservoirs.

Oil should be checked once a season or every 200 hours of operation. (See Lubrication and Maintenance section for procedure.)

StalkMaster is a trademark of Deere & Company

Oil should be drained and replaced every 1000 hours of operation. (See Lubrication and Maintenance section for procedure.)

NS43404,000004B -19-19MAY08-1/1

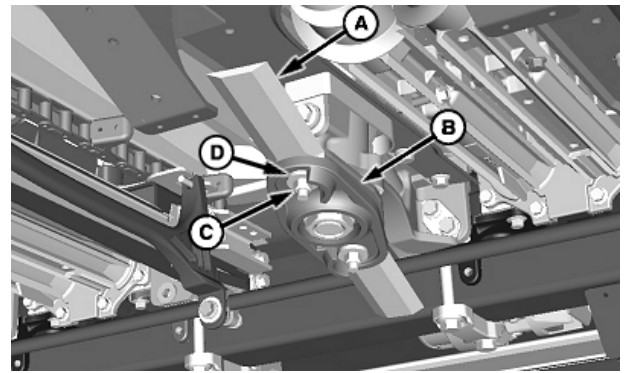
Removing, Flipping, and Installing StalkMaster™ Chopping Knife Blades

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

NOTE: StalkMaster chopping knives are wear items. Knives can be flipped for extended knife wear. Worn, dull, or damaged knives are factors that affect corn head power consumption and stalk chopping quality, both of which can limit harvest speed. The expected wear life of chopping knives will vary with the operator's harvest conditions and operation habits. Flip and replace knives as needed to maintain acceptable stalk chopping ability & replace any excessively worn bushings and hardware.

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

1. Remove lock nuts (C), washers, bushings (D), and cap screws.
2. Remove knives (A) from between plate (B).
3. Inspect all hardware and bushings for excessive wear or damage and replace as necessary. Lock nuts can



A—Knife (2 used)
B—Plate

C—Nut (2 used)
D—Bushing (2 used)

be reused when flipping blades. Lock nuts must be replaced when replacing knives.

4. Install knives using cap screws, bushings, washers, and lock nuts. Tighten to specification.

Specification

Stalk Chopping Knife Cap Screw—Torque..... 130 N·m
(96 lb·ft)

OUO6043,0001C87 -19-03JAN08-1/1

Auger

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

A—Auger



OUO6043,0001C88 -19-03JAN08-1/1

Stubble Lights

Lights up the area directly behind the corn head so the operator can see the height of cut during nighttime harvesting.

Stubble lights can be tilted up or down, and can be twisted left and right.



H91762—UN—20MAY08

NS43404,000004C -19-19MAY08-1/1

Outer Gatherer Extensions

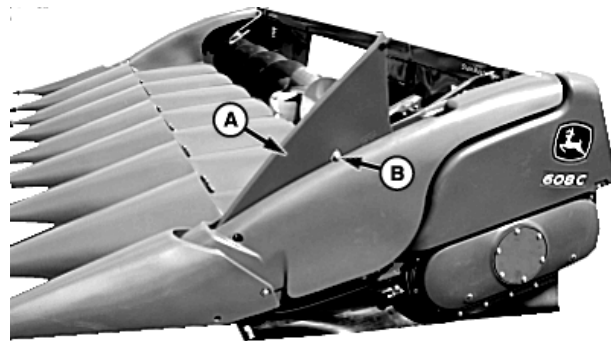
Extensions (A) prevents ear loss over the sides of the low profile gatherer sheets.

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

Extensions are incorporated into the end fender and can be raised and lowered.

1. Raise extension until pin (B) locks.
2. To lower extension push pin (B) in an lower extension.

NOTE: Extension must be lowered to raise outer point.



H89215—UN—23JUL07

A—Extensions

B—Pin

OUC6043,0001C89 -19-07JAN08-1/1

Calibration and Programming

When to Calibrate

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

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

- Header Calibration -LC1 (hdr)
- CONTOUR MASTER Angle Sensor Calibration - LC1 tilt (Optional)

- Hydraulic Adjustable Deck Plate -LC1 (Optional) on a 50 and 60 Series Combines Sensor Calibration - dEc
- Active Float Calibration - FLO

NOTE: The condition causing the error must be corrected before the calibration can be continued.

If any errors occur during the calibration procedures, error codes will be displayed on the triple display tachometer, on 50 and 60 Series Combines and displayed on the Command Center Display on a 70 Series Combine.

JK22594,000026C -19-11SEP07-1/1

Calibration Error Codes

IMPORTANT: Condition(s) causing the error code must be corrected before the calibration procedure can continue.

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

JK22594,000026F -19-16AUG07-1/1

Armrest Functions

CommandCenter™ Armrest header functions: For complete information on each function see your Combine Operator's Manual.

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



Command Center Armrest 70 Series

JK22594,0000283 -19-29AUG07-1/1

Active Header Control Display

NOTE: For complete information on each function and calibrations. Refer to your Combine Operator's Manual.

Header Height Sensing Button: allows the operator to select the position of the header relative to the ground and return to that position automatically.

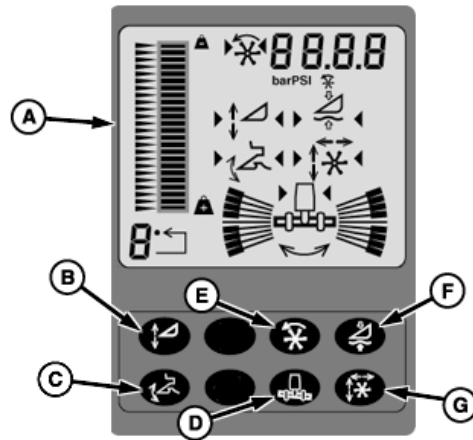
Header Height Sensing Button (HydraFlex): allows the operator to adjust the cutterbar ground pressure, or weight of the cutterbar, and return to that setting automatically. HydraFlex works in conjunction with header height sensing to maintain a header position relative to the ground, follow the ground contour, and return to that position automatically.

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

Contour-Master Button: allows the operator to maintain the header position relative to the ground. Sensors are used to determine the height at each end of the header. The header tilts to equalize the distances to the ground at each end of the header. If equipped with Header Height Sensing—HydraFlex (optional), the two systems work together to maintain the closest position of the cutterbar relative to the ground.

Reel Dial-A-Speed Button: allows the operator to automatic control of operating speed for reel or belt pickup headers. Operating speed will be a ratio of the machine ground speed to the reel or belt speed.

Dial-A-Speed is a trademark of Deere & Company



H86001—UN—13DEC06

A—Active Header Control Display
B—Header Height Sensing Button
C—Header Height Resume Button
D—Contour-Master Button

E—Reel Dial-A-Speed™ Button
F—Active Header Float Button
G—Reel Position Resume Button

Active Header Float Button: allows a rigid header to be operated in contact with the ground and maintain a set contact pressure. The operator selects how firmly the header contacts the ground and returns to that pressure automatically.

Continued on next page

OUO6043,0001C98 -19-07JAN08-1/2

Deck Plate Control Display

Reel fore/aft switch (A) on multifunction control handle allows operator to open and close adjustable deck plates.

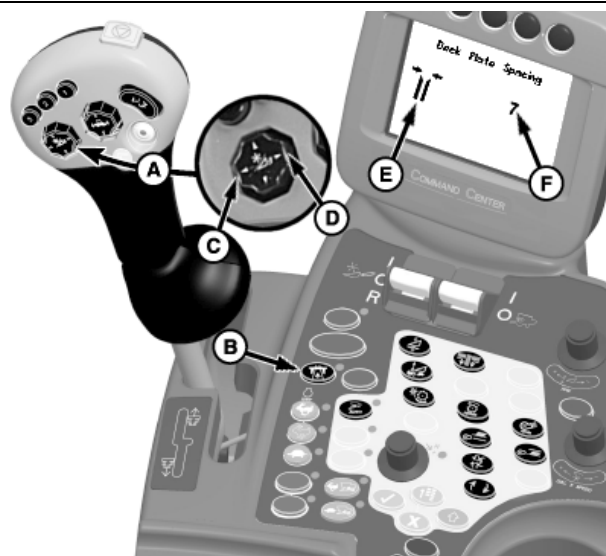
System is active when:

- Engine is running
- Road transport disconnect switch (B) is in field position

Press left-hand side of reel fore/aft switch (C) to open deck plates and right-hand side (D) to close deck plates to desired position.

Deck plate position icon (E) and deck plate opening (F) will appear on display. Deck plates have a range of 0 (minimum position) to 9 (maximum position).

Press and hold activations buttons 1,2, or 3 on multifunction control handle for two seconds to memorize current deck plate position. after deck plate position has been changed, press memory button to return to previous position.



- | | |
|------------------------------------|----------------------------|
| A—Reel Fore/Aft. Switch | D—Reel Aft. Switch |
| B—Road Transport Disconnect Switch | E—Deck Plate Position Icon |
| C—Reel Fore Switch | F—Deck Plate Opening |

H87048 —UN—25JUL07

OUC6043,0001C98 -19-07JAN08-2/2

Description of Automatic Header Height Control System

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

System Requirements:

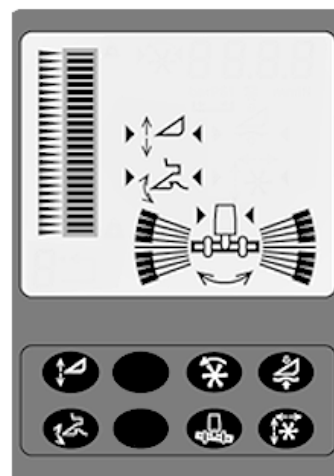
- Road transport disconnect switch must be in field position.
- Engine is running.
- Header engaged.
- Desired header control mode activated.

Lateral Tilt Adjustment—Two modes

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

Platform Height Adjustment—Four Modes

- Manual Adjust — hydraulic components are directly activated by multifunction control handle.



- Automatic height resume — platform can be set to any position within the feeder house range.
- Automatic height sensing — height of the platform is maintained with height sensors attached to the platform. This ensures that header height is always constant over rough terrain.
- Automatic float control — machine maintains a constant header pressure with ground contact.

NOTE: It is possible to override automatic modes manually.

Continued on next page

OUC6043,0001C97 -19-07JAN08-1/3

H86522 —UN—13DEC06

Height Sensing and Active Header Float Pressure Sensitivity (Automatic Functions) controls the speed of response for header movements when in automatic sensing and automatic float modes.

Operation:

NOTE: Press feeder house rate adjust and sensitivity adjust switch twice to adjust sensitivity settings (C).

Sensitivity setting will be shown on CommandCenter display when adjusting. Settings are adjusted between 0 to 100.

Press feeder house rate adjust and sensitivity adjust switch (A) **twice** and use selection dial (B) to adjust speed at which header follows ground contour.

Turn selection dial clockwise to increase response rate or counterclockwise to decrease response rate settings.

- A—Feeder House Rate Adjust and Sensitivity Adjust Switch
B—Selection Dial
C—Sensitivity Settings



H87056 —UN—30JUL07

OUO6043,0001C97 -19-07JAN08-2/3

Manual Raise/Lower Speed (Manual Functions) controls response rate of header raise/lower functions for manual control or when in automatic height resume mode.

Operation:

NOTE: Press feeder house rate adjust and sensitivity adjust switch once to adjust rate settings (C).

Rate setting will be shown on CommandCenter display when adjusting. Settings are adjusted between 0 to 100.

Press feeder house rate adjust and sensitivity adjust switch (A) **once** and use selection dial (B) to adjust rate at which header will react when being raised or lowered.

Turn selection dial clockwise to increase response rate or counterclockwise to decrease response rate settings (C).

- A—Feeder House Rate Adjust and Sensitivity Adjust Switch
B—Selection Dial
C—Rate Settings



H87057 —UN—30JUL07

OUO6043,0001C97 -19-07JAN08-3/3

Adjustments

Adjusting and Leveling Gatherer Points

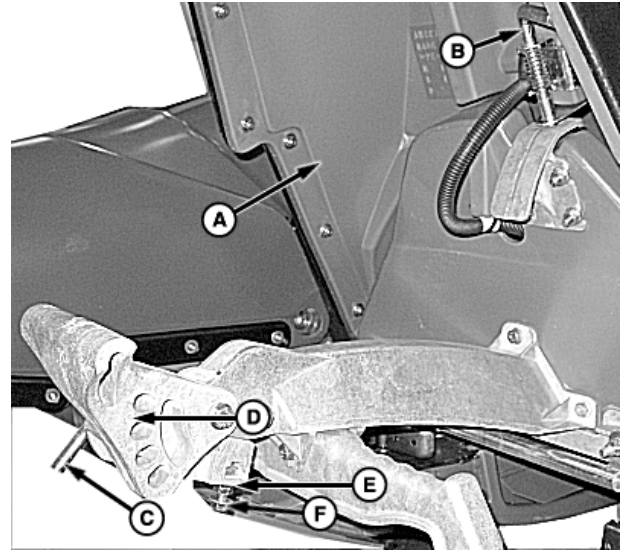
⚠ CAUTION: Raise corn head until points are off of the ground, shut off engine, and remove key.

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

1. Raise point (A) and lock latch (B).
2. Pull spring locking pin (C) and adjust height using location holes (D).
3. The points can also be fine adjusted by loosening jam nut (E) and adjusting cap screw (F) up or down.

A—Point
B—Latch
C—Locking Pin

D—Location Hole
E—Jam Nut
F—Cap Screw



H88971 —UN—06AUG07

NS43404,000004D -19-19MAY08-1/1

Adjusting Trash Knives

Trash knives prevent weeds and trash from wrapping around stalk rolls.

Trash knives must be set as close as possible to rolls without striking the flutes.

1. Loosen four cap screws (B).
2. Adjust trash knife (C) so that gap (A) between knife and stalk roll flute is within specification.

Specification

Trash-Knife to Stalk-Roll-Flute Gap—Gap 1.5 mm
(1/16 in.)

3. Tighten cap screws (B) to specification.

Specification

Trash Knife Mounting Cap Screws—Torque 130 N·m
(96 lb·ft)

4. Verify stalk roll spiral (D) (front of roll) and stalk roll fin (E) (rear of roll) clear the trash knife when rotated.
5. Repeat procedure on opposite trash knife and for remaining row units.

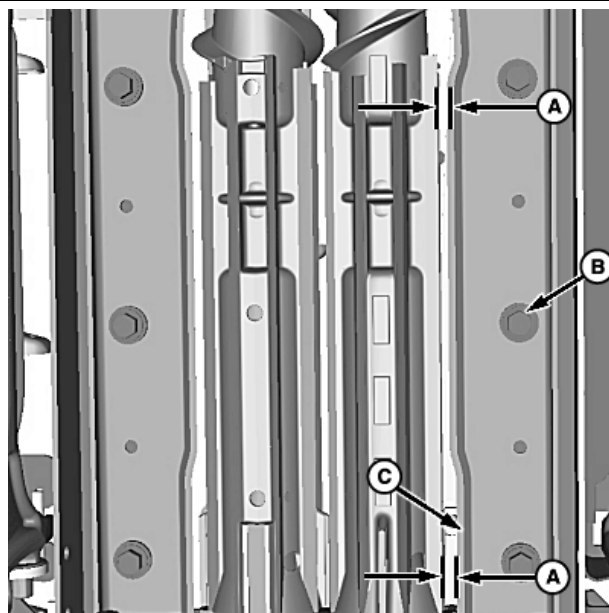
A—Dimension, 1.5 mm (1/16 in.)

D—Stalk Roll Spiral

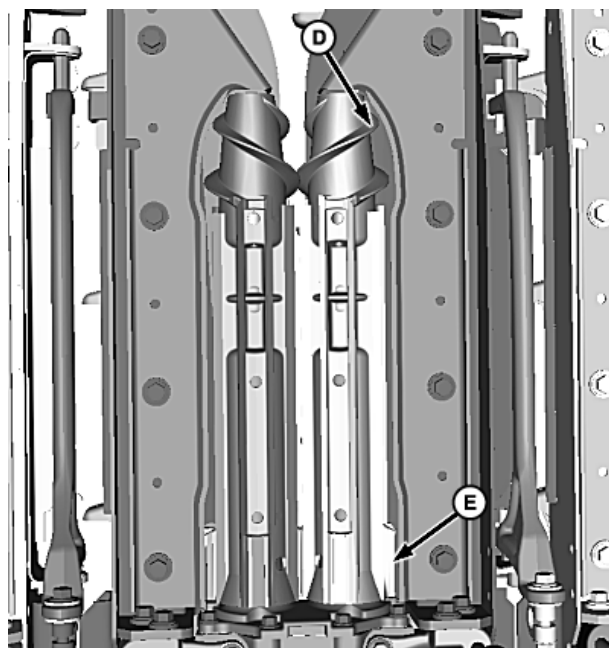
B—Cap Screw (8 used)

E—Stalk Roll Fin

C—Trash Knife



H91763 —UN—20MAY08



H90470 —UN—04JAN08

NS43404,000004E -19-19MAY08-1/1

Adjusting Gatherer Chain Tension

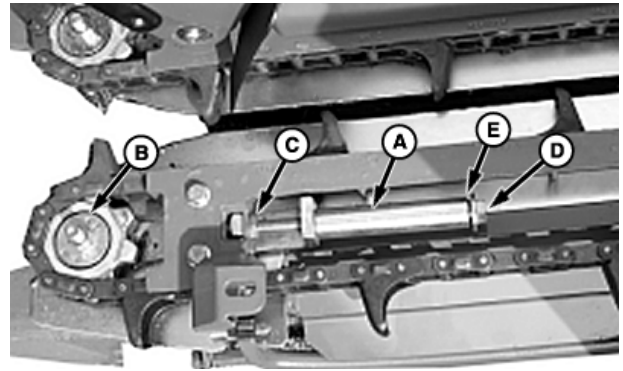
Gatherer chain tension is maintained by a spring-loaded tightener. The spring is shielded by a spacer tube (A) that also serves as a stop to prevent the idler sprocket (B) from retracting too far.

To increase gatherer chain tension, loosen nut (C) and tighten bolt (D).

To prevent chain from running off idler sprocket, maintain a 4.8 mm (3/16 in.) maximum space between spacer tube (A) and washer (E).

A—Spacer Tube
B—Idler Sprocket
C—Nut

D—Bolt
E—Washer



H89313—UN—20JUL07

JK22594,000025B -19-23JUL07-1/1

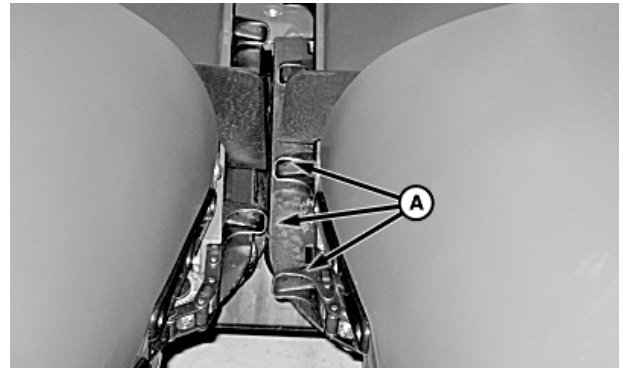
Adjusting Gatherer Chain Flights

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

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

1. Remove center shield.

A—Chain Flights



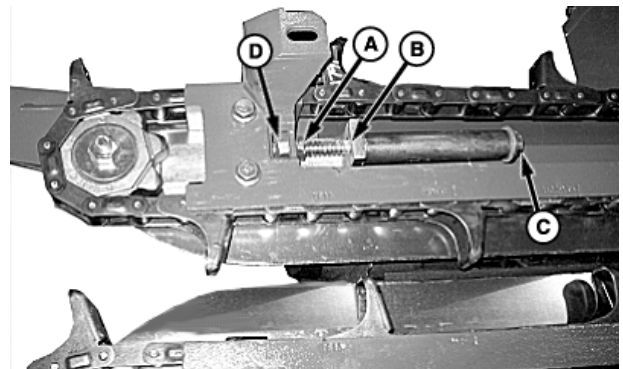
H89420—UN—01AUG07

NS43404,000004F -19-19MAY08-1/3

2. Turn nut (A) until it is against leg of idler support strap (B).
3. Loosen bolt (C) until nut (D) disengages.

A—Nut
B—Strap

C—Bolt
D—Nut



H90103—UN—02OCT07

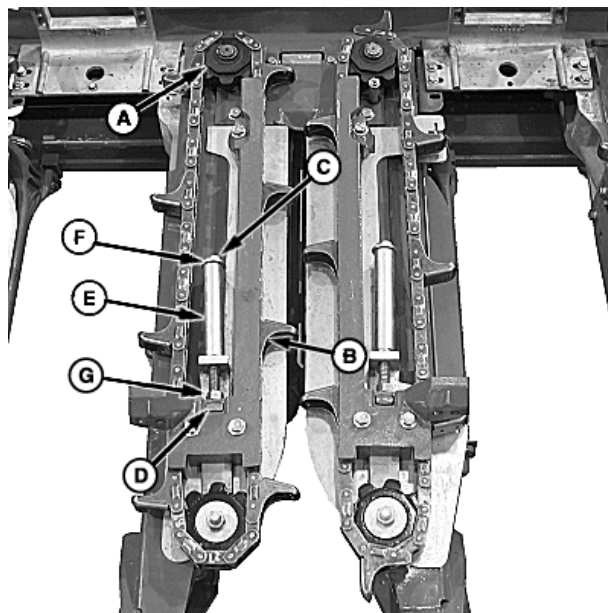
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NS43404,000004F -19-19MAY08-2/3

4. Lift chain off sprocket (A) and rotate chain until flights (B) are uniformly spaced.
5. Turn bolt (C) into nut (D) and tighten bolt until a 4.8 mm (3/16-in.) maximum space between spacer tube (E) and washer (F).
6. Screw nut (G) tight against idler assembly.

A—Sprocket
B—Flights
C—Bolt
D—Nut

E—Tube
F—Washer
G—Nut



H90104 —UN—02OCT07

NS43404,000004F -19-19MAY08-3/3

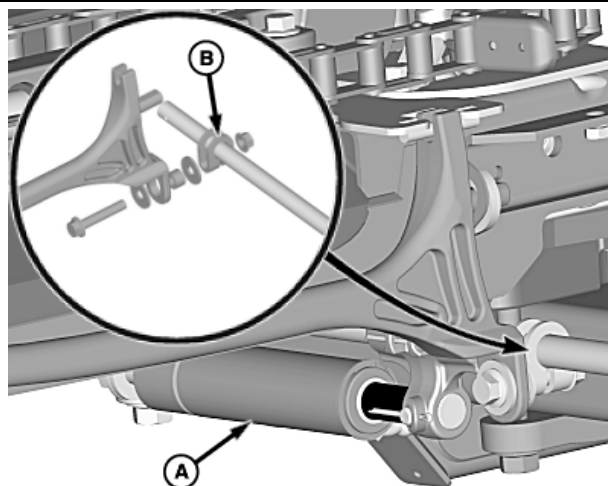
Adjusting Deck Plates

NOTE: Deck plates are factory set.

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

A—Cylinder

B—Clamp



H90238 —UN—29OCT07

Continued on next page

OUO6075,0000C32 -19-29OCT07-1/2

Adjustments

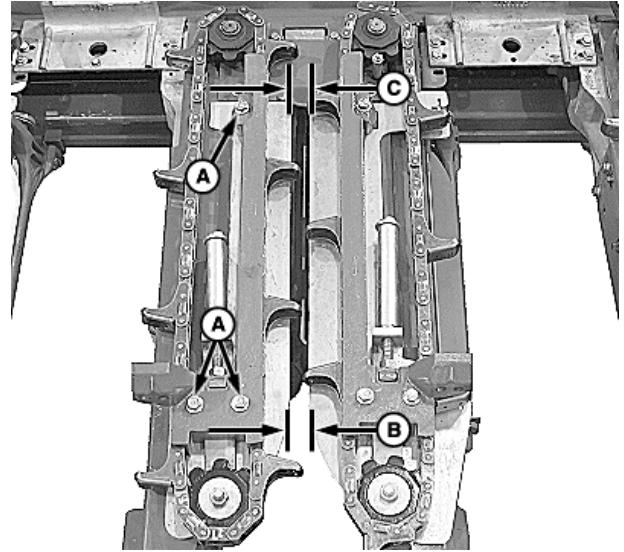
- Loosen cap screws (A) retaining right-hand side deck plate to row unit frame.
- Set front spacing (B) to 18 mm (23/32 in.) and rear spacing (C) to 20 mm (25/32 in.).
- Tighten cap screws to specification.

Specification

Deck Plate Cap Screws—Torque 95 N•m
(70 lb-ft)

A—Cap Screws
B—Front Spacing

C—Rear Spacing



H90106 —UN—29OCT07

OUC6075,0000C32 -19-29OCT07-2/2

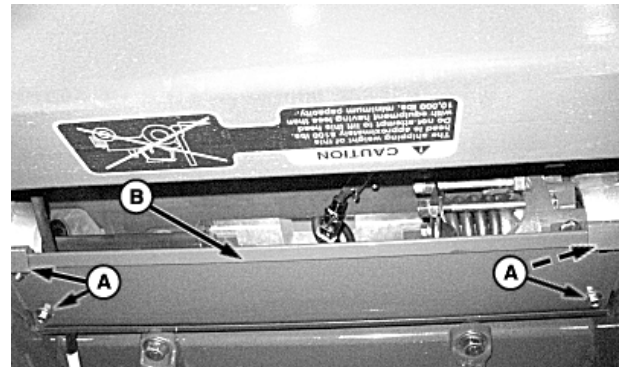
Adjusting Row Spacing

ROW SPACING

Corn Head	cm	in.
606C	76.2	30
606C	91.4, 96.5	36, 38
608C	70.0	27.5
608C	75.0	29.5
608C	76.2	30
608C	91.4, 96.5	36, 38
612C	50.8	20
612C	55.9	22
612C	76.2	30

CAUTION: When working under the corn head, always place the cylinder safety stop in safety position to prevent header from lowering.

- Remove and retain attaching hardware (A) and row unit drive shield (B).



A—Hardware

B—Shield

H89404 —UN—31JUL07

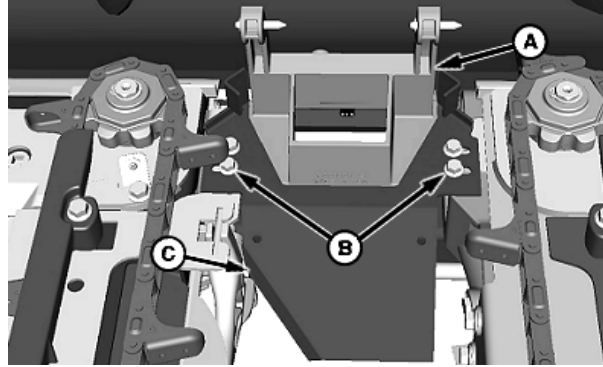
- Remove gatherer shields and points. (See Raising and Removing Center Gatherer Shields and Points in the Operating Header section for procedure.)

Continued on next page

JK22594,00001FA -19-03JAN08-1/4

3. Remove cap screws (B), shield (C) and support (A).

A—Gatherer Shield Support C—Shield
B—Cap Screws (4 used)



H88378 —UN—14MAY07

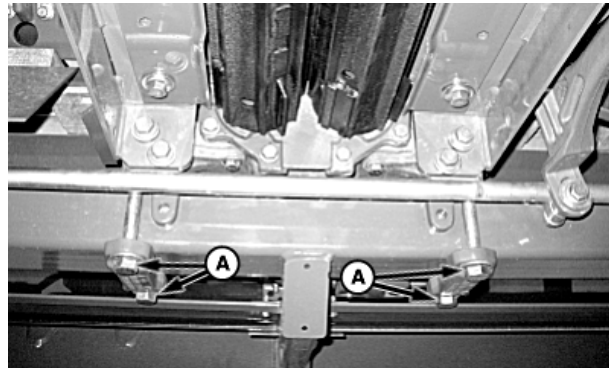
JK22594,00001FA -19-03JAN08-2/4

NOTE: To slide row units to desired location, with correct lifting devise lift and support under row unit skid plates keeping weight of unit on main frame.

4. Loosen bolts (A) of center two row units. Move both row units an equal distance to correct row spacing. Then move to the next outer row unit. Loosen bolts and move unit to the desired row spacing and continue until all row units are spaced correctly. Torque unit attaching bolts to specification.

Specification

Unit Attaching Bolts—Torque..... 310 N·m
(229 lb·ft)



H89412 —UN—01AUG07

A—Bolts

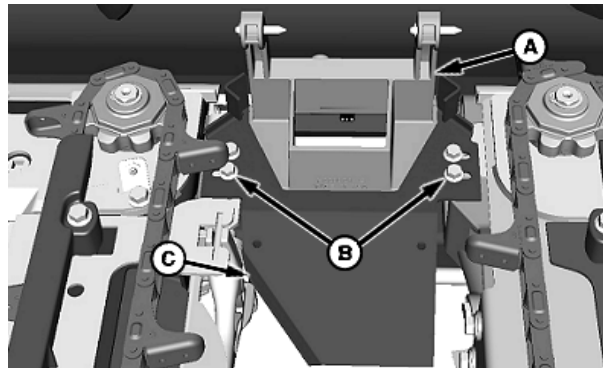
JK22594,00001FA -19-03JAN08-3/4

5. Position row unit shield and gatherer shield support for desired row spacing and reinstall cap screws (B) in shield (C) and gatherer shield support (A).

Specification

Gatherer Shield Support—Torque 70 N·m
(52 ft. lb.)

6. Reinstall shields and points on row units.
7. Connect sensor wire harness (if equipped) and push connector into hole of deck cover. Retain harness at yellow tape marks on harness to ensure proper slack for raising points.
8. Reinstall row unit drive shield.



H88378 —UN—14MAY07

A—Gatherer Shield Support C—Shield
B—Cap Screws (4 used)

JK22594,00001FA -19-03JAN08-4/4

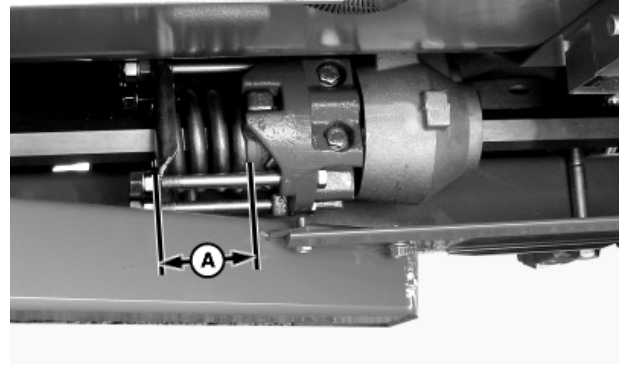
Adjusting Slip Clutches

Slip clutches protect the corn head drives. Each row unit drive and auger drive has a slip clutch.

All slip clutches are properly adjusted at the factory. The only time slip clutches will require adjusting is when they are disassembled for service. The length of the row unit slip clutch spring (A), when correctly adjusted, must be 66 mm (2-5/8 in.). Chopping corn units and auger drive slip clutch are not adjustable.

IMPORTANT: Do not tighten nuts to the point where the clutch will not slip. The two nuts used to compress the spring must be jammed together. Torque to specifications. Grease thrust washer but do not grease clutch facings.

Specification	
Nuts—Torque.....	75 N·m (55 lb-ft)



A—Clutch Spring

NOTE: 12 row corn heads cross augers are driven from both sides.

JK22594,0000258 -19-23JUL07-1/1

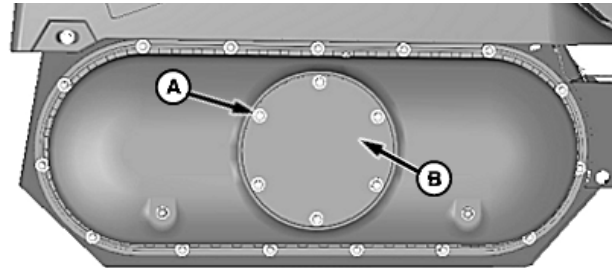
H89271—UN—20JUL07

Adjusting Row Unit Drive Chain

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

A—Cap Screws (6 used)

B—Cover



H88819—UN—04JUN07

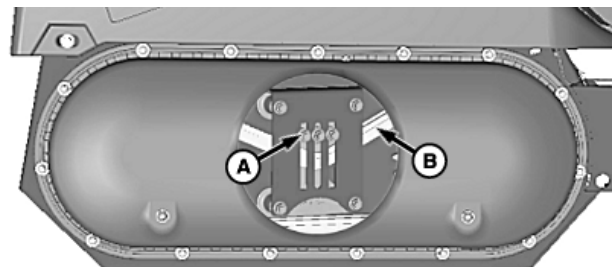
OOU6043,0001C8A -19-20MAY08-1/2

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

2. Adjust tension on drive chain (B) using tensioner (A). Lower chain strand should have play in chain with movement of 10 mm up and 10 mm down. Tighten cap screws to specifications.

Specification	
Tightener Cap Screws—Torque	90 N·m (66 lb-ft)

3. Reinstall cover with retained cap screws.



A—Tensioner

B—Drive Chain

OOU6043,0001C8A -19-20MAY08-2/2

H88823—UN—04JUN07

Adjusting Row Unit Drive Sprockets With (ONLY) Fixed Speed Drive (Combines)

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

Model 606C corn heads are driven from the Left-hand side only, with a 30-tooth driver and 33-tooth driven sprockets standard.

Models 608C and 612C are driven from both sides of the head with a 30-tooth driver and 33-tooth driven sprockets standard equipment.

Chopping corn head models are driven with a 24-tooth driver and 27-tooth driven sprockets.

NOTE: Drain oil and remove pan before changing or adjusting sprockets, see Remove/Install Oil and Pan in Service section.

When operating at increased ground speeds, install small sprocket on driven shafts and large sprocket on drive shafts.

Adjust tightener so chain will operate without climbing or jumping sprockets.

The following chart gives the approximate combine travel speed that is used with each sprocket combination.

NOTE: Recommended travel speed in chart is based on average field conditions. Your particular field condition may differ and determine which sprocket must be used. Front Driven shaft should never exceed 715 rpm. Corn head running higher than 715 rpm can result in machine damage.

*NOTE: FIXED SPEED COMBINE ONLY—The sprockets are set from the factory 30T Driver and 33T Driven for non-chopping and 24T Driver and 27T Driven for chopping. These sprockets must **NOT** be changed for variable speed combines.*

When Combining at:	Non Chopping Corn Head		Chopping Corn Head	
	Driver	Driven	Driver	Driven
Up to 7 km/h (Up to 4 mph)	30-tooth	33-tooth	24-tooth	27-tooth
Over 7 km/h (4 mph)	33-tooth	30-tooth	27-tooth	24-tooth

NS43404,0000051 -19-19MAY08-1/1

Adjusting Row Unit Drive Sprockets With (ONLY) Fixed Speed Drive (Forage Harvesters)

IMPORTANT: Front Driven shaft should never exceed 715 rpm. May result in machine damage.

ONLY 6 row corn heads are driven from the left-hand side, which include one 30-tooth driver and one 33-tooth driven sprockets as standard equipment.

8 and 12 row corn heads are driven from both sides which include two 30-tooth driver and two 33-tooth driven sprockets as standard equipment.

NOTE: Drain oil and remove pan before changing or adjusting sprockets, see Remove/Install Oil and Pan in Service section.

For maximum operating speed, install large sprockets on drive shafts and small sprocket on driven shaft.

When changing sprocket location, secure sprockets to shafts and align sprockets for smooth operation .

Adjust tightener so chain will operate without climbing or jumping sprockets.

The following chart gives the approximate harvester travel speed that must be used with each sprocket combination.

NOTE: Recommended travel speed in chart is based on average field conditions. Your particular field condition may differ and determine which sprocket must be used.

Fixed Speed Forage Harvesters Only

606C, 608C and 612C Corn Heads			
Adapter Plate Shaft Sprocket (Drive)	Corn Head Shaft Sprocket (Driven)	Front Corn Head Shaft Speed @2100 Engine rpm	Approx. Suggested Ground Speed
30-Tooth	33-Tooth	410	Under 3 mph (5 km/h)
33-Tooth	30-Tooth	495	3-4 mph (5-7 km/h)

OUC6043,0001C8C -19-07JAN08-1/1

Adjusting Row Unit Drive Sprockets With (ONLY) Fixed Speed Drive (Corn Huskers)

IMPORTANT: Front driven shaft should never exceed 715 rpm. May result in machine damage.

NOTE: Drain oil and remove pan before changing or adjusting sprockets, see Remove/Install Oil and Pan in Service section.

Install 33-tooth sprocket on drive shaft and 30-tooth sprocket on driven shaft.

When changing sprocket location, secure sprockets to shafts and align sprockets for smooth operation.

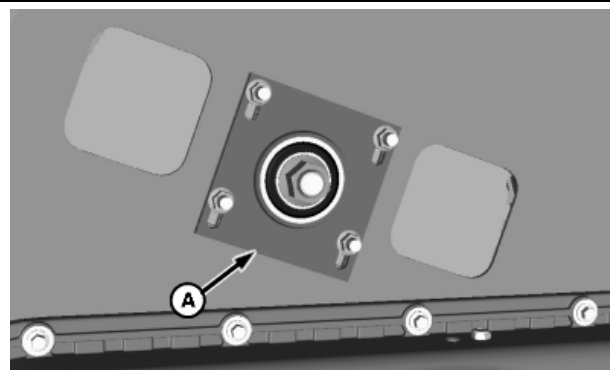
Adjust tightener so drive chain will operate without climbing or jumping sprockets.

JK22594,00001F1 -19-13JUL07-1/1

Adjusting Auger

CAUTION: Keep safety shields in place.

1. Both sides of corn head main frame and auger bearing carriers (A) are slotted for adjusting auger. Auger can be adjusted up and down for clearance between auger flighting and floor.
2. Keep auger adjusted down in most conditions. Raise auger to prevent ear damage in popcorn and food grade corn.
3. In normal conditions, keep a minimum of 6 mm (1/4 in.) clearance between auger and the lower adjustable auger stripper.
4. In normal conditions, keep a minimum of 32 mm (1-1/4 in.) clearance between auger flighting and bottom of floor.
5. Bearing carriers can be removed and auger lifted and bolts install to upper slotted holes on each side to raise auger off of floor 76 mm (3 in.) for use in food corn.



A—Bearing Carriers

H88528 —UN—18MAY07

OUC6043,0001C8D -19-11JUL08-1/1

12-Row Auger Adjustment Only

Adjust the auger height and fore-and-aft as follows:

1. Loosen three flange nuts (A).
2. Loosen nut (B).
3. Adjust nut (C) to move auger up or down.
4. Move auger fore-and-aft as necessary according to specifications.

IMPORTANT: There must be 22 mm (7/8 in.) clearance between auger flighting and floor and a 6 mm (1/4-in.) clearance between auger flighting and stripper.

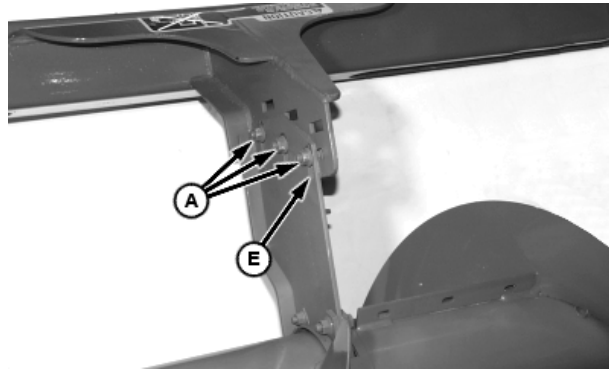
Specification	
Auger Flighting and Floor—Clearance	22 mm (7/8-in.)
Auger Flighting and Stripper—Clearance.....	6 mm (1/4 in.)

5. If raising auger off of the floor 76 mm (3 in.) for use in food corn, remove carriage bolts (D) and raise auger to align slots (E) with top slots (F). Install carriage bolts and retain with nuts.

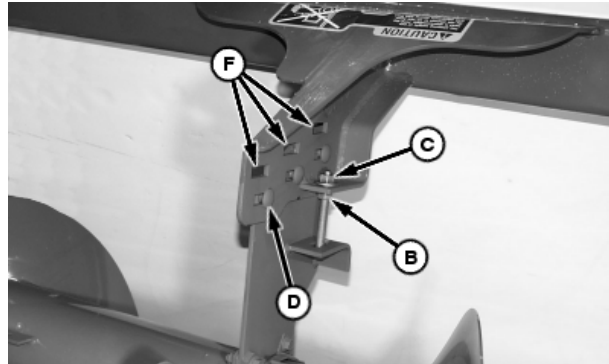
6. Tighten all nuts to specification.

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

7. Close auger shield and tighten nuts.



H67290 —UN—04APR01



H67286 —UN—04APR01

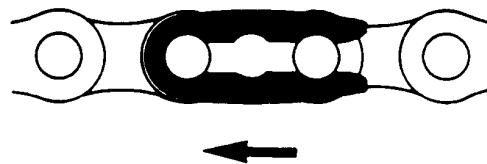
A—Flange Nut (3 used)
B—Nut
C—Nut

D—Carriage Bolt (3 used)
E—Slot (3 used)
F—Top Slot (2 used)

OUC6043,0001C8E -19-07JAN08-1/1

Coupling the Chain

When securing a chain coupler link, closed end of spring lock must face in direction of chain travel as shown with bold arrow.



H41470

H41470 —UN—28NOV89

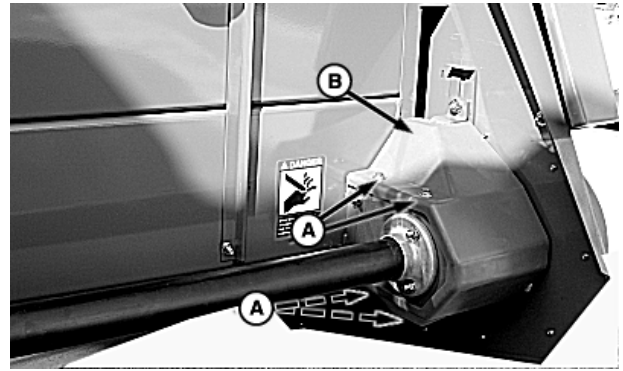
JK22594,000025D -19-23JUL07-1/1

Adjusting Auger Drive Chain

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

A—Cap Screws

B—Cover



H89365—UN—31JUL07

OUC6043,0001C8F -19-07JAN08-1/2

2. Loosen nuts (A). Push on adjusting plate (B) to adjust chain tension.
3. Tighten nuts (A) to specification.

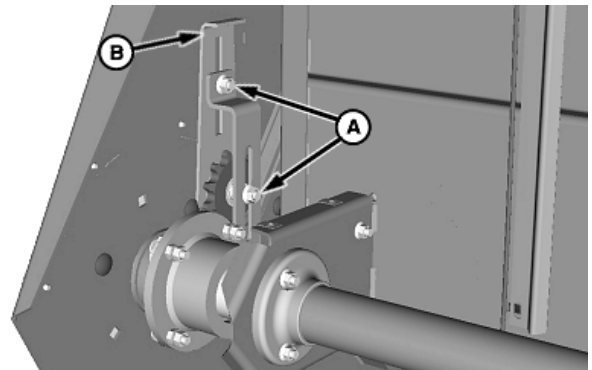
Specification

Nuts (A)—Torque..... 90 N·m
(66 lb·ft)

NOTE: An overtightened chain will cause undue chain wear. Adjust chain tension so that the slack side movement is 10 mm (3/8 in.) up and 10 mm (3/8 in.) down.

A—Nuts

B—Plate



H89018—UN—20JUN07

OUC6043,0001C8F -19-07JAN08-2/2

Lubrication

Corn Head Grease

John Deere CORN HEAD GREASE is recommended for the corn head row unit gear cases.

You may also use SAE Multipurpose Grease with Extreme Pressure (EP) Performance and meeting NLGI Consistency Number 0.

NS43404,0000052 -19-20MAY08-1/1

Grease

Use grease based on NLGI consistency numbers and the expected air temperature range during the service interval.

The following grease is recommended:

- John Deere SD POLYUREA GREASE (TY6341)

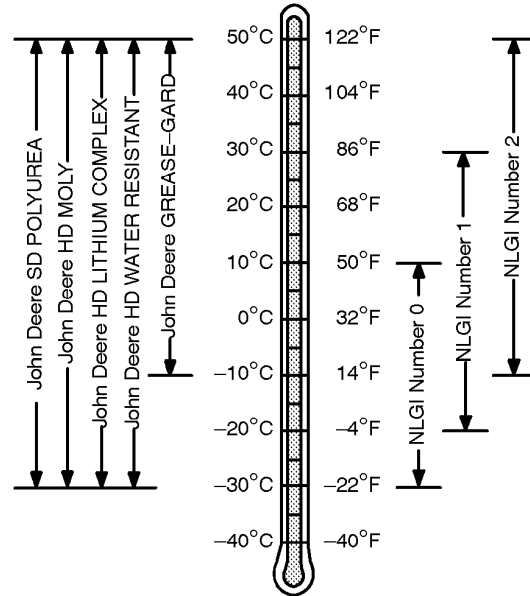
Other greases may be used if they meet the following:

- NLGI Performance Classification GC-LB

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

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

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



TS1667—UN—30JUN99

AG,OUO1035,1175 -19-20MAY08-1/1

Lubricant Storage

Your equipment can operate at top efficiency only when clean lubricants are used.

Use clean containers to handle all lubricants.

Whenever possible, store lubricants and containers in an area protected from dust, moisture, and other

contamination. Store containers on their side to avoid water and dirt accumulation.

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

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

DX,LUBST -19-18MAR96-1/1

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 both conventional and synthetic oils.

Re-refined base stock products may be used if the finished lubricant meets the performance requirements.

DX,ALTER -19-15JUN00-1/1

Lubrication and Maintenance

Lubrication Symbols

CAUTION: Never lubricate or service corn head while combine engine is running. Turn off Engine, remove key, and set safety stops.

 Lubricate with John Deere Multipurpose SD Polyurea High Temperature/Extreme Pressure lubricant or an equal SAE Multipurpose High Temperature Grease with Extreme Pressure (EP) performance at hours shown on the symbol.

 Lubricate with John Deere SAE 30 oil or heavier oil at hourly intervals indicated on the symbols.

 Lubricate with John Deere corn head grease (type "O" [zero] extreme pressure) at hourly intervals indicated on the symbols. The lubricant is available in a 0.4 kg (14-1/2 oz) tube AN102562. Wipe away all grease and dirt before removing inspection plugs. Wipe grease fittings clean before lubricating.

IMPORTANT: Recommended service intervals are for average conditions. Service **MORE OFTEN** if corn head is operated under adverse conditions.

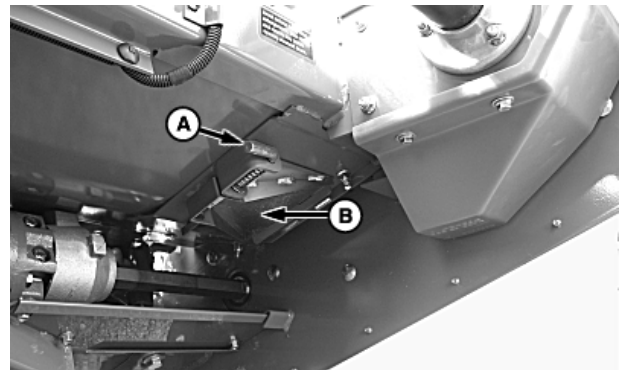
MH81805,0000737 -19-17MAR05-1/1

Auger Floor Clean Out Door

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

A—Latch

B—Door

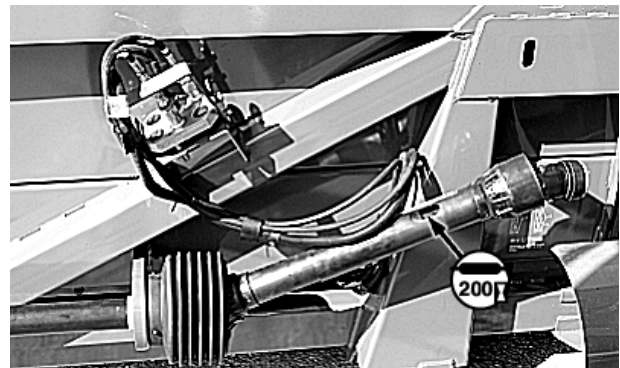


H89356—UN—31JUL07

OUC6043,0001C90 -19-07JAN08-1/1

Annually or Every 200 Hours of Operation

1. Grease header drive shafts.
Rotate shield as needed to access grease fitting.
2. Inspect and adjust the following;
 - Row Unit Drive Chain(s)
 - Auger Drive Chain
 - Row Unit Gatherer Chains(See Adjustments section for procedures.)



Header Drive Shaft

H89266—UN—17JUL07

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NS43404,0000053 -19-20MAY08-1/5

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

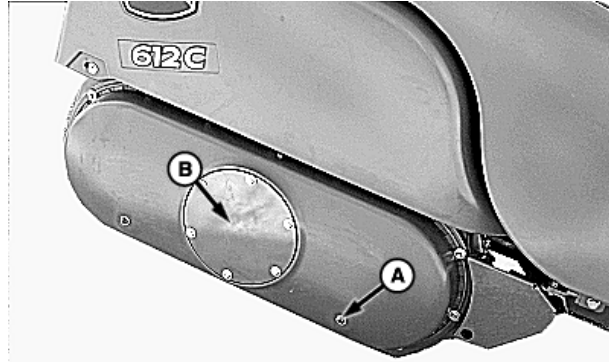
3. Replace oil in the drive chains (both sides of head) annually or every 200 hours of operation.

Specification	
Drive Chain Oil—Capacity	0.9 L (.95 qt.)

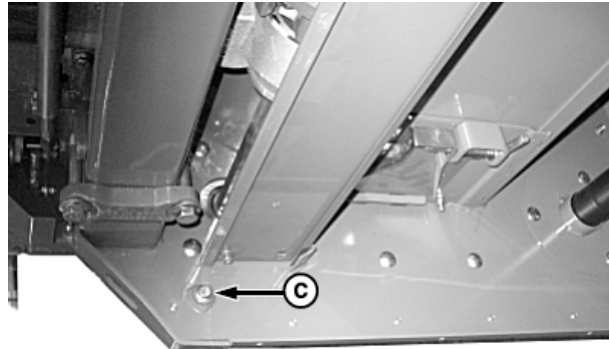
- a. Raise head and engage safety stop.
- b. Operate head to warm oil prior to draining.
- c. Remove plug (C) and lower header to drain oil.
- d. Raise head and engage safety stop.
- e. Install plug.
- f. Lower header onto flat level ground and remove access door (B) and check plug (A).
- g. Add SAE 80/90 gear lube through access door until level with the bottom of check plug (A). Approximate capacity is 0.9 L (.95 qt.).
- h. Install access door and check plug.

A—Plug
B—Access Door

C—Drain Plug



H89618 —UN—14AUG07



H89619 —UN—14AUG07

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NS43404,0000053 -19-20MAY08-2/5

4. Check row unit gear case grease annually or every 200 hours of operation.

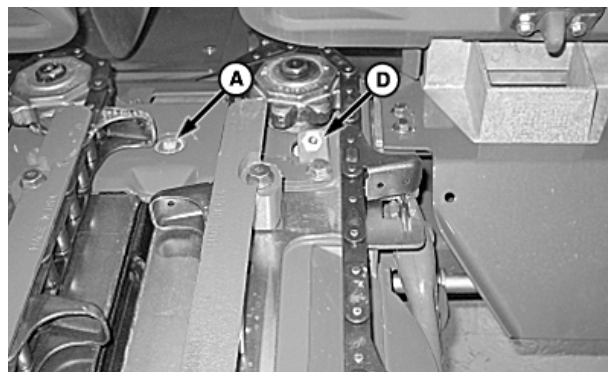
NOTE: Row unit gear case grease must be warm with header raised to obtain accurate readings on dipstick.

- a. Operate header to warm row unit grease.
- b. Raise header and lower safety stop.
- c. Raise row unit shield.
- d. Clean area around inspection plug/dipstick (A) to avoid dirt and debris from entering gear case.
- e. Remove dipstick and wipe off grease.
- f. Insert dipstick until bottom of dipstick threads rest on top of gear case recess (B).
- g. Remove and observe grease level on dipstick.
- h. If level is below full mark (C), add John Deere Corn Head Grease through grease fitting (D) until level with mark.

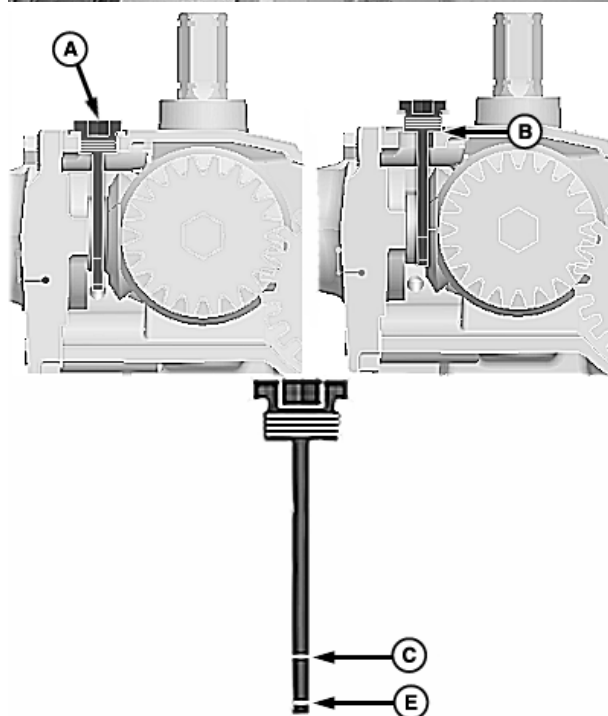
IMPORTANT: Do not overfill gear case. 0.42 L (1 tube) of grease is required to fill gear case from minimum mark (E) to full mark (C). The amount of grease to add at other levels is proportional.

- i. Install dipstick and operate header again to warm new grease as necessary to obtain accurate reading.

A—Inspection Plug/Dipstick	D—Grease Fitting
B—Recess	E—Minimum Mark
C—Full Mark	



H90487—UN—04JAN08



H90488—UN—04JAN08

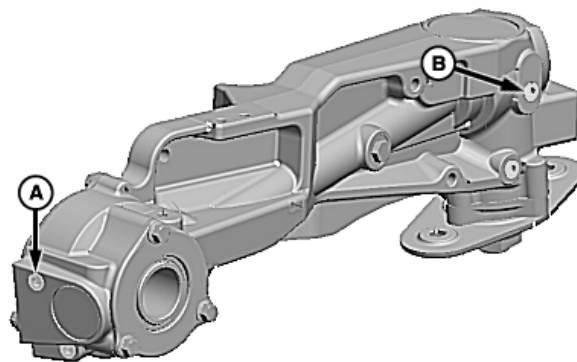
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NS43404,0000053 -19-20MAY08-3/5

5. Check Stalkmaster gear case oil (if equipped) annually or every 200 hours of operation.

NOTE: Chopping corn head gear cases must be warm with header raised to verify accurate oil level.

- a. Raise header and lower safety stop.
- b. Remove check/fill plug (A) at the rear of the gear case on each row. Oil level should be at the bottom of the check/fill plug hole. Add TY6296 80W 90 GL-5 gear lube as necessary to obtain correct level. Reinstall check/fill plug.
- c. Remove check/fill plug (B) at the front of the gear case on each row. Oil level should be at the bottom of the check/fill plug hole. Add TY6296 80W 90 GL-5 gear lube as necessary to obtain correct level. Reinstall check/fill plug.



A—Check/Fill Plug

B—Check/Fill Plug

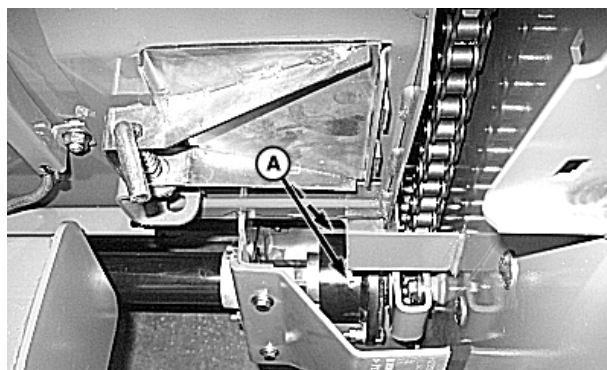
H90489 —UN—04JAN08

NS43404,0000053 -19-20MAY08-4/5

NOTE: 12 row chopping corn heads are driven from both sides of the head and requires two drive clutches.

6. **Chopping Corn Head ONLY:** Grease drive clutch fitting (A) annually or every 200 hours of operation.

A—Grease Fitting (2 Used)



Chopping Corn Head Only

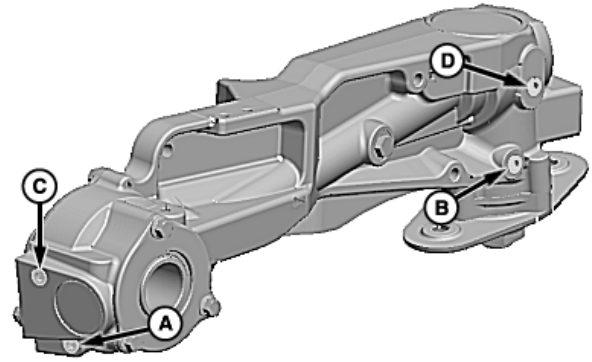
H89800 —UN—11SEP07

NS43404,0000053 -19-20MAY08-5/5

Every 1000 Hours of Operation

NOTE: Chopping corn head gear cases must be warm with header raised to drain and refill oil.

1. Drain and refill chopping gear case oil every 1000 hours.
2. Raise header and engage safety stop.
3. Place a proper container under machine. Remove drain plug (A) at the rear of the gear case and drain plug (B) at the front of the gear case.
4. After oil has drained reinstall plugs.
5. Remove check/fill plug (C) at the rear of the gear case and check/fill plug (D) at the front of the gear case. Add TY6296 80W 90 GL-5 Gear Lube to front and rear gear cases until level with the bottom of check/fill plug holes (C and D). Install plugs.



A—Rear Drain Plug
B—Front Drain Plug

C—Rear Check/Fill Plug
D—Front Check/Fill Plug

Specification

Rear Gear Case—Capacity	325 mL (11 oz)
Front Gear Case—Capacity	400 mL (13.5 oz)

H90492 —UN—04JAN08

NS43404,0000054 -19-20MAY08-1/1

Troubleshooting

Troubleshooting

The majority of corn head operating problems can be traced to improper adjustment. The following troubleshooting chart will help you when problems develop

by suggesting a probable cause and the recommended remedy. Make certain when you are trying to solve a problem, that the source does not come from some place other than where the problem exists.

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

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OUC6043,0001C93 -19-20MAY08-1/2

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

OUO6043,0001C93 -19-20MAY08-2/2

ACTIVE HEADER CONTROL (AHC)

Symptom	Problem	Solution
ACTIVE HEADER CONTROL (AHC) Will Not Operate	Manual raise or lower does not work.	See your John Deere dealer.
	ACTIVE HEADER CONTROL not enabled.	Enable ACTIVE HEADER CONTROL mode that is desired in cornerpost 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 Lowers But Will Not Raise.	Defective ACTIVE HEADER CONTROL relay or ACTIVE HEADER CONTROL card.	See your John Deere dealer.
ACTIVE HEADER CONTROL Raises But Will Not Lower	Defective ACTIVE HEADER CONTROL relay or ACTIVE HEADER CONTROL card.	See your John Deere dealer.
	Control shaft restricted.	Check for restriction.
	Auto drop rate valve closed.	Adjust in-line valve.
System Cycles or Hunts	Incorrect drop rate adjustment.	Adjust in-line valve.
	Incorrect accumulator setting.	See your combine Operator's Manual.
System Fails Intermittently After Manually Raising Header Over Obstacle.	System was de-activated.	To re-activate, press activation button in multifunction control handle.
Header Raises or Lowers Too Slow or Too Fast.	Incorrect drop rate adjustment.	Adjust valve stack drop rate.
	In-line valve problem.	See your John Deere dealer.

JK22594,000026B -19-31JUL07-1/1

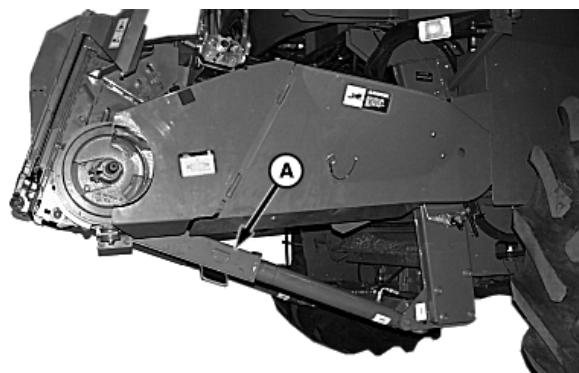
Service

Hydraulic Cylinder Safety Stop

CAUTION: When working under the corn head, always place the hydraulic cylinder safety stop in safety position to prevent header from lowering.

1. Start engine, raise feeder house and fully extend hydraulic cylinder to place safety stop in safety position.
2. (6620, 7720 and 8820 Combines) Disconnect support chain (A) from safety stop (B) and lower safety stop onto the cylinder rod.
3. (9400, 9500, 9600, 10 Series, and 50 Series Combines) Raise safety stop (A) from storage position and lower it down onto the cylinder rod.

After completing work on the corn head, place safety stop in storage position.



A—Safety Stop

H70038 —UN—19SEP01

JK22594,000025E -19-23JUL07-1/1

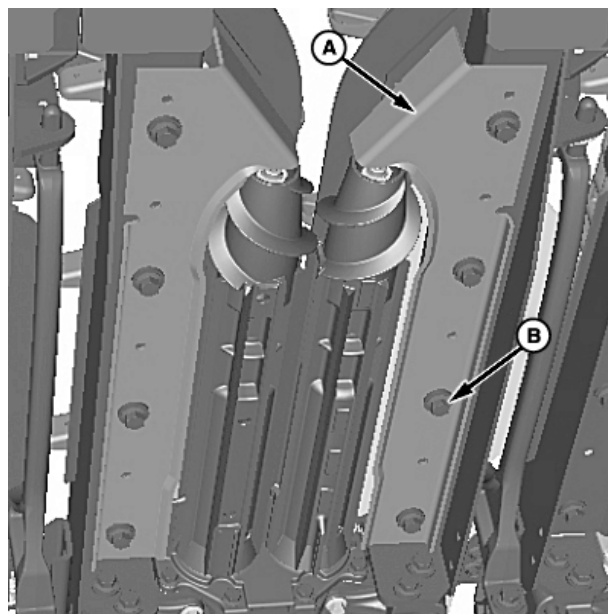
Remove and Install Stalk Rolls

CAUTION: Lower hydraulic cylinder safety stop before working under corn head.

1. Remove four cap screws (B), washers, and trash knife (A) from underside of row unit frame.

A—Trash Knife

B—Cap Screw (4 used)



H90471 —UN—04JAN08

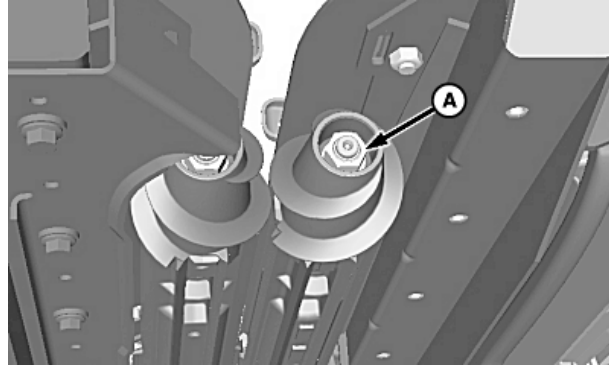
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OUC1078,0000611 -19-20MAY08-1/5

NOTE: Stalk rolls will turn when attempting to remove nut (A). Place a pry bar between the stalk roll and row unit frame to prevent stalk rolls from turning.

2. Remove and discard nut (A).

A—Nut

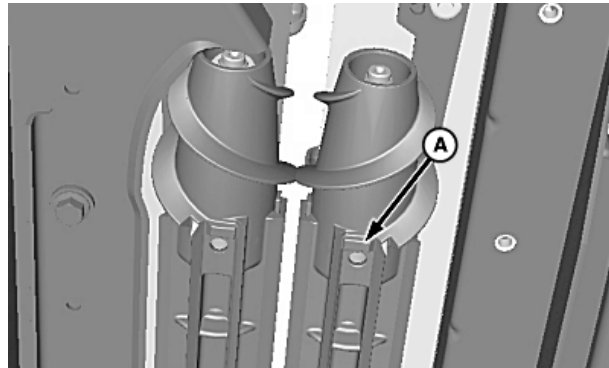


H90472 —UN—04JAN08

OUO1078,0000611 -19-20MAY08-2/5

3. Stalk rolls can typically be pulled off by hand. If unable to do so locate the two ribs (A) on stalk roll. Remove stalk roll from shaft by attaching a 2-jaw puller to ribs.
4. Shaft taper should be free of rust and dirt. Inspect stalk rolls for wear or damage.

A—Stalk Roll Rib (2 used)



H90473 —UN—04JAN08

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OUO1078,0000611 -19-20MAY08-3/5

IMPORTANT: Stalk roll spherical nut (A) contains a pre-applied thread locking patch (B) and cannot be reused. A replacement nut must be purchased from John Deere Service Parts.

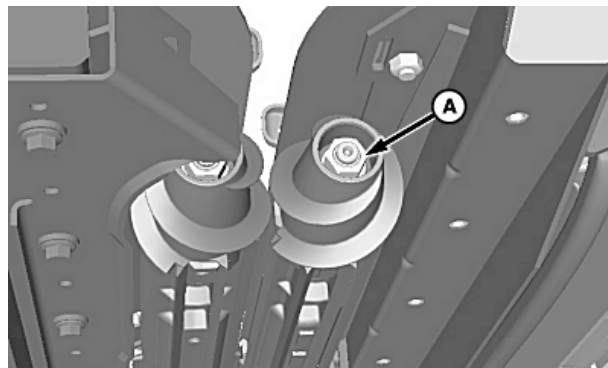
5. Align splines on stalk roll and shaft and install stalk roll.
6. Install replacement spherical nut (A) and tighten to specification.

Specification

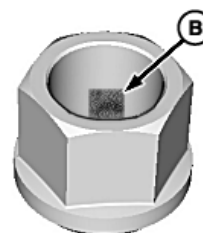
Stalk Roll Spherical Nut—Torque400 N·m
(295 lb-ft)

A—Spherical Nut

B—Thread Locking Patch



H90472 —UN—04JAN08



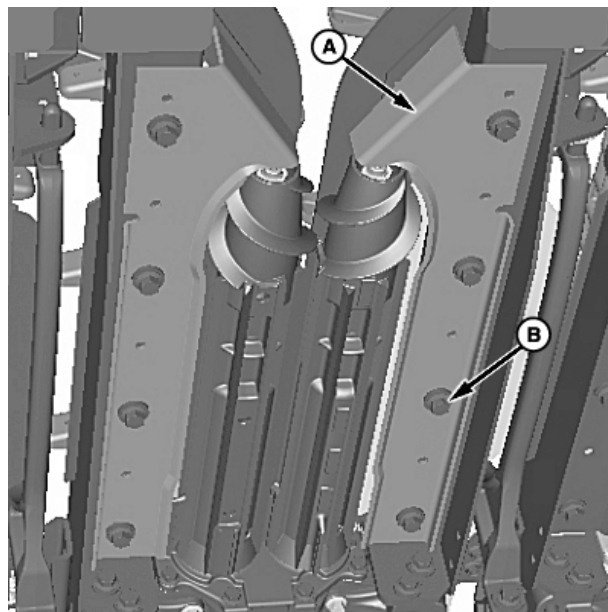
H90490 —UN—04JAN08

OUO1078,0000611 -19-20MAY08-4/5

7. Install trash knife (A) and retain using four washers and cap screws (B).
8. Adjust trash knives. (See ADJUST TRASH KNIVES in the Adjustments section.)
9. Repeat procedure on opposite stalk roll.

A—Trash Knife

B—Cap Screw (4 used)



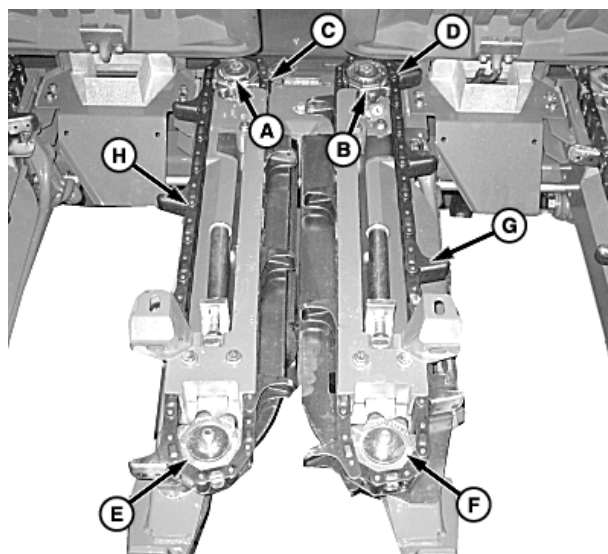
H90471 —UN—04JAN08

OUO1078,0000611 -19-20MAY08-5/5

Reversing Gatherer Chains and Sprockets for Additional Wear

The gatherer chains and sprockets can be reversed for additional wear. This should be done to all row units at the same time. To reverse the chains and sprockets:

1. Release tension on gatherer chains and remove chains.
2. Remove rear sprockets (A) and (B).
3. Install sprocket (A) on row unit (D).
4. Install sprocket (B) on row unit (C).
5. Remove sprockets (E and F).
6. Install sprocket (E) on row unit (D).
7. Install sprocket (F) on row unit (C).
8. Turn gatherer chain (G) over and install on row unit (C).
9. Turn gatherer chain (H) over and install on row unit (D).



A—Rear Sprockets
B—Rear Sprockets
C—Row Unit
D—Row Unit

E—Sprocket
F—Sprocket
G—Gathering Chain
H—Gathering Chain

JK22594,0000260 -19-20MAY08-1/1

H89401 —UN—20MAY08

Replacing Gatherer Chain

CAUTION: Raise corn head, turn engine off, remove key, and lower safety stop before working under header.

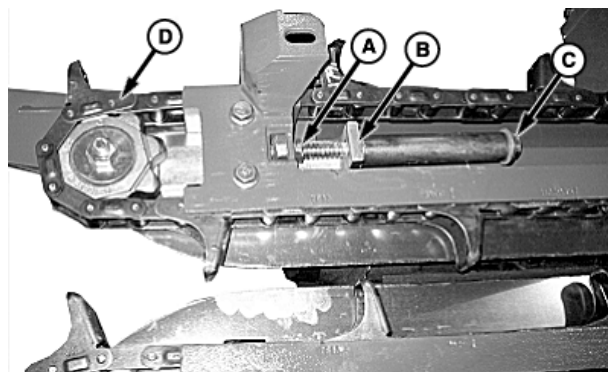
NOTE: Gatherer chains have chrome pins for longer wear life. Black pin or chrome pin chains are available from your John Deere dealer.

If gatherer chain breaks, or is badly worn, replace with a new chain.

Gatherer chains can be removed for servicing parts of the gatherer mechanism without disconnecting the chain.

CAUTION: Never service any part of the mechanism or idler sprocket until you have nut (A) tight against leg of idler support strap (B).

1. Turn nut (A) until it is against leg of idler support strap (B), to release gatherer chain tension.



A—Nut
B—Leg of Strap

C—Bolt
D—Gatherer Chain

2. Loosen bolt (C) if necessary until tension is off chain.
3. Remove gatherer chain (D).

JK22594,0000261 -19-20MAY08-1/1

H89399 —UN—31JUL07

Remove and Install Oil Pan

NOTE: Place pan under drain plug to capture oil.
Dispose of oil properly, do not reuse.

1. Remove drain plug (A).

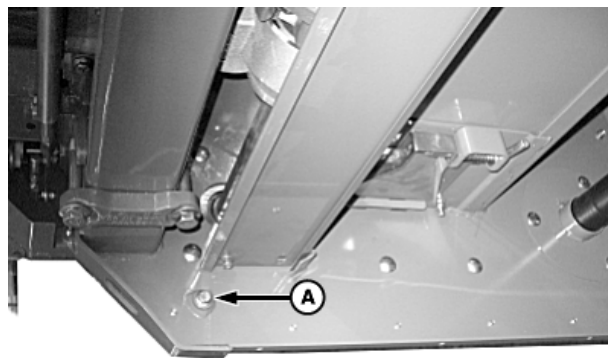
IMPORTANT: Avoid damage to reusable seal on pan. Do not use sharp objects to pry between pan and corn head.

2. Remove cap screws and washers (B) and oil pan (C).

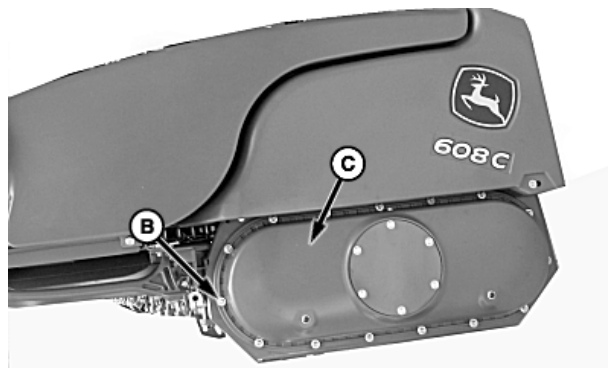
A—Drain Plug

C—Oil Pan

B—Cap Screws and Washers



H89238 —UN—12JUL07



H89240 —UN—12JUL07

JK22594,0000262 -19-20MAY08-1/3

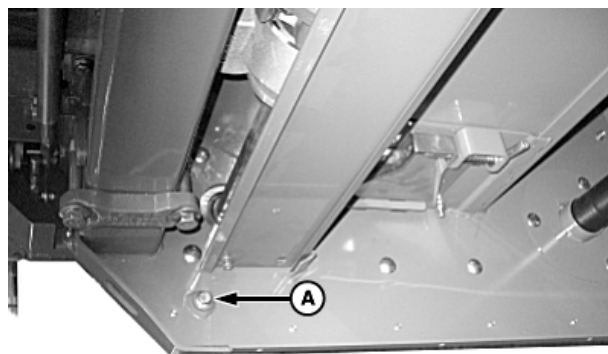
NOTE: When retaining pan with cap screws, start in center and move outward.

3. Reinstall drain plug (A).
4. Clean all dirt and oil from side sheet where oil pan is mounted. Reinstall oil pan with cap screws and washers (B).

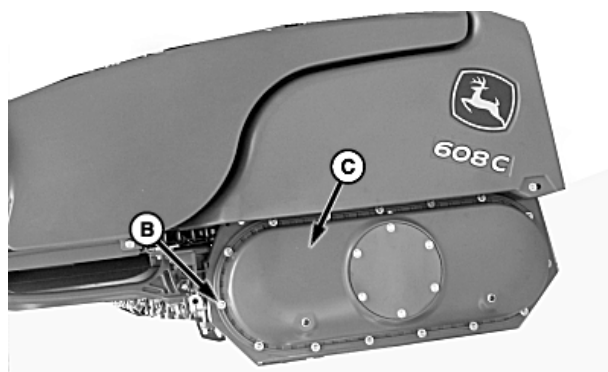
A—Drain Plug

C—Oil Pan

B—Cap Screws and Washers



H89238 —UN—12JUL07



H89240 —UN—12JUL07

Continued on next page

JK22594,0000262 -19-20MAY08-2/3

- Remove fill plug (B) from cover (A).

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

- Fill pan with 80/90 weight gear oil or until oil is level with bottom of plug (B).
- Install plug (B).

	Specification	
Oil Pan—Capacity	0.9 L	
	1 qt.	

A—Cover

B—Fill Plug



H80105 —UN—02OCT07

JK22594,0000262 -19-20MAY08-3/3

Wear Strips

- Remove nut and washer (A).
- Remove bolt and washer (B).
- Remove wear strip and install (C) new wear strip in reverse order.

	Specification	
Wear Strip Nut—Torque	10 N·m	
	7.38 lb·ft	

A—Nut and Washer
B—Bolt and Washer

C—Wear Strip



H88972 —UN—23JUL07

JK22594,0000269 -19-20MAY08-1/1

Stubble Light Bulb Replacement

- Unplug wire harness from light.

NOTE: DO NOT touch bulb with bare fingers, oil or water.

- Twist connector on light assembly 90 degrees and pull out and install new bulb.
- Reinstall in reverse order of removal.



H91762 —UN—20MAY08

JK22594,0000263 -19-20MAY08-1/1

Header Warning Light Bulb Replacement

NOTE: Use a flat-blade screwdriver.

Carefully, pry-off lens (A) from light.

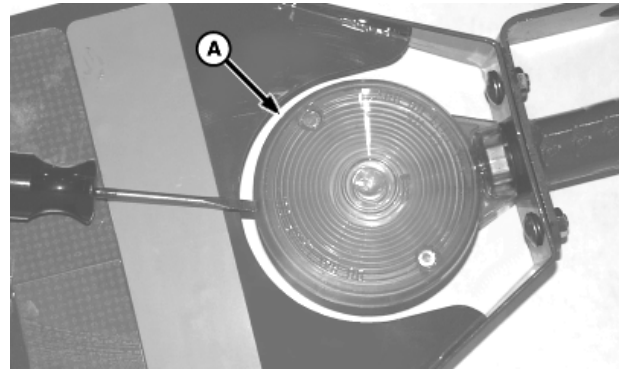
Push bulb (B) in and turn to remove.

Install new bulb.

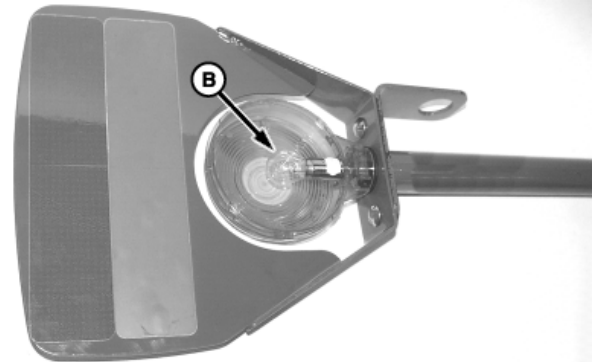
Press lens back onto light housing.

A—Lens

B—Bulb



H72:107—UN—07MAY02



H72:106—UN—07MAY02

JK22594,0000264 -19-23JUL07-1/1

Storage

End of Season Service

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.

⚠ CAUTION: Support the corn head with either the hydraulic cylinder safety stop or with blocks, or lower it to ground level.

1. Clean the corn head thoroughly. Chaff and dirt will draw moisture and cause rust.

2. Lubricate the corn head. Grease the threads on adjusting bolts.
3. Paint all parts from which paint has worn.
4. Use a polymer protectorate on the points, deck covers and end fenders.
5. If possible, shelter the corn head in a dry place.
6. Order repair parts needed for next season.

JK22594,00000B9 -19-09AUG06-1/1

Beginning of Season Service

1. Clean the corn head thoroughly.
2. Adjust gatherer chains to proper tension.
3. Adjust chains to proper tension.
4. Lubricate corn head completely.

5. Go over complete corn head and see that all bolts are tight and cotter pins are spread.
6. Run corn head at half-speed for a few minutes. Check bearings for overheating or excessive looseness.
7. Review your operator's manual.

NS43404,0000055 -19-20MAY08-1/1

Specifications

Specifications

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

Gatherer Points		Low profile floating type hinged above gatherer chains
Center and Outer Gatherers		hinged, quick-removable
Gatherer Chains		Heavy-duty 620 endless steel roller chain with chromed pins (no master connecting link)
Minimum Clearance Between Gatherer Chains and Ground		32 mm (1-1/4 in.)
Row Unit Drive		Enclosed gear box with gears submerged in lubricant; driven by single input hex. shaft
Gatherer Chain Adjustment		Spring loaded-self-adjusting
Stalk Rolls		Spiral-pointed, flute-type (2 per row unit)
Deck Plate Adjustment		Hydraulic Adjusted
Slip Clutch		One per row unit plus auger drive
Trash Knives		Full length one piece heat-treated steel

Approximate Overall Width for Storage:

Model	Header ID	Width mm (in.)
606C and 606C-SM	6R30	4800 mm (15 ft 9 in.)
606C	6R36/38	5791 mm (19 ft)
608C and 608C-SM	8R70 or 8R75	6125 mm (20 ft 2 in.)
608C and 608C-SM	8R30	6350 mm (20 ft 10 in.)
608C	8R36/38	7820 mm (25 ft 8 in.)
612C and 612C-SM	12R20	6605 mm (21 ft 8 in.)
612C and 612C-SM	12R22	7163 mm (23 ft 6 in.)
612C and 612C-SM	12R30	9400 mm (30 ft 10 in.)

Approximate Overall Length for Storage (All Corn Heads):

Points in operating position		3000 mm (9 ft 10 in.)
Points folded up (service position)		2400 mm (7 ft 11 in.)

Approximate Shipping Weight of Corn Head (Includes Shipping Skid):

Non-Chopping Corn Head

Model	Header ID	Weight kg (lb.)
606C	6R30	1961 kg (4324 lb.)
606C	6R36/38	2414 kg (5321 lb.)
608C	8R70	2416 kg (5327 lb.)
608C	8R75	2532 kg (5582 lb.)
608C	8R30	2568 kg (5662 lb.)
608C	8R36/38	3181 kg (7012 lb.)
612C	12R20	2612 kg (5758 lb.)
612C	12R22	2846 kg (6275 lb.)
612C	12R30	3783 kg (8342 lb.)

Chopping Corn Head STALKMASTER

606C-SM	6R30	2254 kg (4970 lb.)
608C-SM	8R70	2862 kg (6309 lb.)
608C-SM	8R75	2900 kg (6393 lb.)
608C-SM	8R30	2918 kg (6433 lb.)
612C-SM	12R20	3663 kg (8075 lb.)
612C-SM	12R22	3663 kg (8332 lb.)
612C-SM	12R30	4245 kg (9359 lb.)

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JK22594,00001F9 -19-31JUL07-1/2

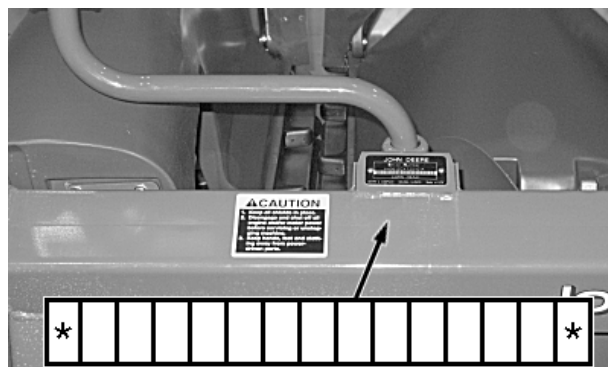
NOTE: Specifications and design subject to change without notice.

JK22594,00001F9 -19-31JUL07-2/2

Serial Number

Locate serial number plate on base of the left-hand warning light bracket.

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

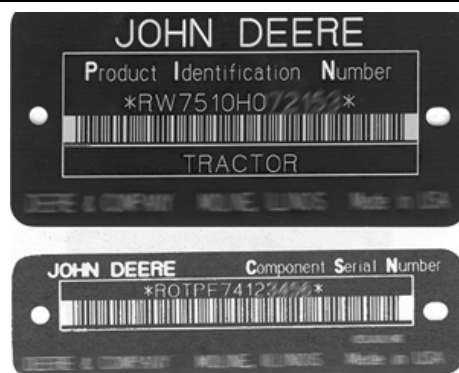


H89234 —UN—31JUL07

CRNHD,90SP,D -19-31JUL07-1/1

Keep Proof of Ownership

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

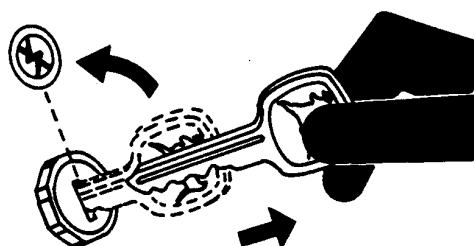


TS1680 —UN—09DEC03

DX,SECURE1 -19-18NOV03-1/1

Keep Machines Secure

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.

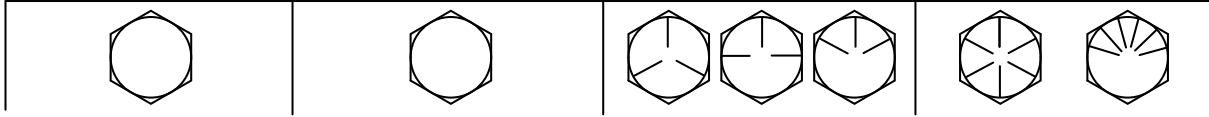


TS230 —UN—24MAY89

DX,SECURE2 -19-18NOV03-1/1

Unified Inch Bolt and Screw Torque Values

TS1671 —UN—01MAY03



Bolt or Screw	SAE Grade 1				SAE Grade 2 ^a				SAE Grade 5, 5.1 or 5.2				SAE Grade 8 or 8.2			
	Lubricated ^b		Dry ^c		Lubricated ^b		Dry ^c		Lubricated ^b		Dry ^c		Lubricated ^b		Dry ^c	
Size	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	3.7	33	4.7	42	6	53	7.5	66	9.5	84	12	106	13.5	120	17	150
													N·m	lb-ft	N·m	lb-ft
5/16	7.7	68	9.8	86	12	106	15.5	137	19.5	172	25	221	28	20.5	35	26
									N·m	lb-ft	N·m	lb-ft				
3/8	13.5	120	17.5	155	22	194	27	240	35	26	44	32.5	49	36	63	46
			N·m	lb-ft	N·m	lb-ft	N·m	lb-ft								
7/16	22	194	28	20.5	35	26	44	32.5	56	41	70	52	80	59	100	74
	N·m	lb-ft														
1/2	34	25	42	31	53	39	67	49	85	63	110	80	120	88	155	115
9/16	48	35.5	60	45	76	56	95	70	125	92	155	115	175	130	220	165
5/8	67	49	85	63	105	77	135	100	170	125	215	160	240	175	305	225
3/4	120	88	150	110	190	140	240	175	300	220	380	280	425	315	540	400
7/8	190	140	240	175	190	140	240	175	490	360	615	455	690	510	870	640
1	285	210	360	265	285	210	360	265	730	540	920	680	1030	760	1300	960
1-1/8	400	300	510	375	400	300	510	375	910	670	1150	850	1450	1075	1850	1350
1-1/4	570	420	725	535	570	420	725	535	1280	945	1630	1200	2050	1500	2600	1920
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2140	1580	2700	2000	3400	2500
1-1/2	990	730	1250	930	990	730	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For plastic insert or crimped steel type lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application. Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Replace fasteners with the same or higher grade. If higher grade fasteners are used, tighten these to the strength of the original. Make sure fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

^aGrade 2 applies for hex cap screws (not hex bolts) up to 6. in (152 mm) long. Grade 1 applies for hex cap screws over 6 in. (152 mm) long, and for all other types of bolts and screws of any length.

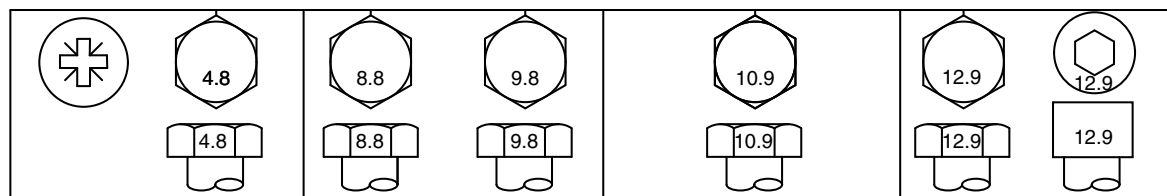
^b"Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C zinc flake coating.

^c"Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B zinc flake coating.

DX,TORQ1 -19-24APR03-1/1

Metric Bolt and Screw Torque Values

TS1670 —UN—01MAY03



Bolt or Screw	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b		Lubricated ^a		Dry ^b	
Size	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	4.7	42	6	53	8.9	79	11.3	100	13	115	16.5	146	15.5	137	19.5	172
									N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft
M8	11.5	102	14.5	128	22	194	27.5	243	32	23.5	40	29.5	37	27.5	47	35
			N·m	lb-ft	N·m	lb-ft	N·m	lb-ft								
M10	23	204	29	21	43	32	55	40	63	46	80	59	75	55	95	70
	N·m	lb-ft														
M12	40	29.5	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	46	80	59	120	88	150	110	175	130	220	165	205	150	260	190
M16	100	74	125	92	190	140	240	175	275	200	350	255	320	235	400	300
M18	135	100	170	125	265	195	330	245	375	275	475	350	440	325	560	410
M20	190	140	245	180	375	275	475	350	530	390	675	500	625	460	790	580
M22	265	195	330	245	510	375	650	480	725	535	920	680	850	625	1080	800
M24	330	245	425	315	650	480	820	600	920	680	1150	850	1080	800	1350	1000
M27	490	360	625	460	950	700	1200	885	1350	1000	1700	1250	1580	1160	2000	1475
M30	660	490	850	625	1290	950	1630	1200	1850	1350	2300	1700	2140	1580	2700	2000
M33	900	665	1150	850	1750	1300	2200	1625	2500	1850	3150	2325	2900	2150	3700	2730
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2770	4750	3500

Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For stainless steel fasteners or for nuts on U-bolts, see the tightening instructions for the specific application. Tighten plastic insert or crimped steel type lock nuts by turning the nut to the dry torque shown in the chart, unless different instructions are given for the specific application.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class. 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 fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application.

^a"Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or M20 and larger fasteners with JDM F13C zinc flake coating.

^b"Dry" means plain or zinc plated without any lubrication, or M6 to M18 fasteners with JDM F13B zinc flake coating.

DX,TORQ2 -19-24APR03-1/1

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John Deere Service Literature Available

Technical Information

Technical information can be purchased from John Deere. Some of this information is available in electronic media, such as CD-ROM disks, and in printed form. There are many ways to order. Contact your John Deere dealer. Call **1-800-522-7448** to order using a credit card. Search online from <http://www.JohnDeere.com>. Please have available the model number, serial number, and name of the product.

Available information includes:

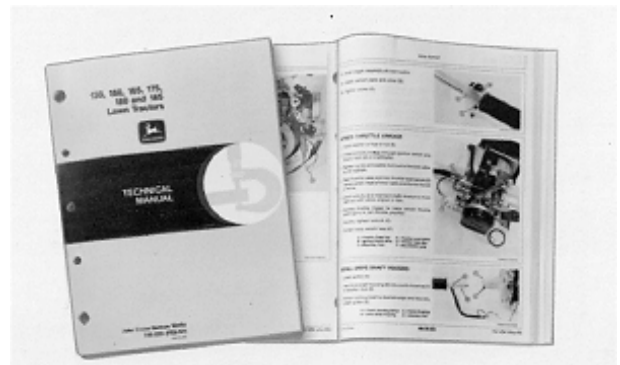
- **PARTS CATALOGS** list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.
- **OPERATOR'S MANUALS** providing safety, operating, maintenance, and service information. These manuals and safety signs on your machine may also be available in other languages.
- **OPERATOR'S VIDEO TAPES** showing highlights of safety, operating, maintenance, and service information. These tapes may be available in multiple languages and formats.
- **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 separate component technical manuals
- **FUNDAMENTAL MANUALS** detailing basic information regardless of manufacturer:
 - Agricultural Primer series covers technology in farming and ranching, featuring subjects like computers, the Internet, and precision farming.
 - 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.



TS189 —UN—17JAN89



TS191 —UN—02DEC88



TS224 —UN—17JAN89



TS1663 —UN—10OCT97

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John Deere Service Keeps You On The Job

John Deere Is At Your Service

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.



TS201 —UN—23AUG88

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 -19-01MAR06-1/1

