

600C Series Corn Heads (S.N. 785001—)



OPERATOR'S MANUAL 600C Series Corn Heads OMHxE89804 ISSUE H5 (ENGLISH)

CALIFORNIA Proposition 65 Warning

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

If this product contains a gasoline engine:

WARNING

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

The State of California requires the above two warnings.

Additional Proposition 65 Warnings can be found in this manual.

John Deere Harvester Works

North American Edition
PRINTED IN U.S.A.



Introduction

Foreword

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

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

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

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the implement will travel when going forward.

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

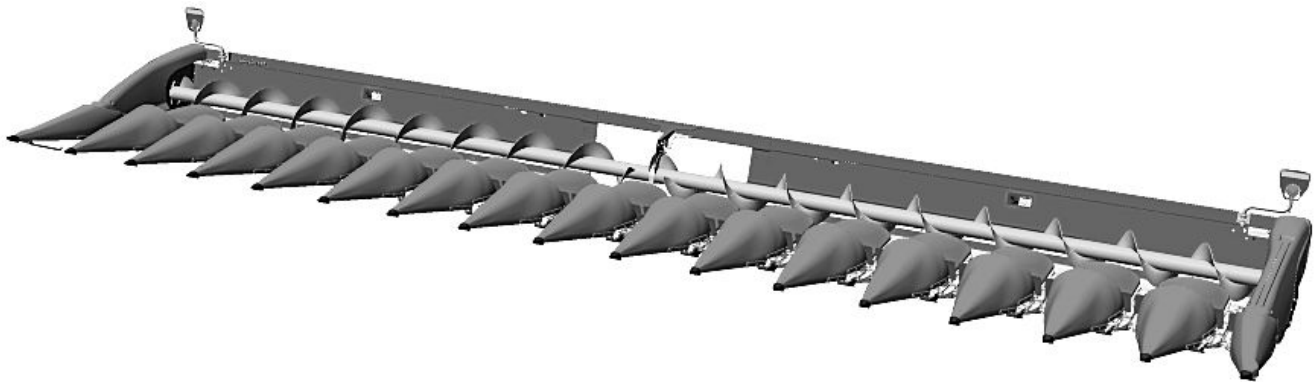
WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate or statement which you should have received from your dealer.

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

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

DX,IFC2A -19-03APR09-1/1

Identification View



H102469—UN—29JUN11

SS43267,00002FF -19-01NOV13-1/1

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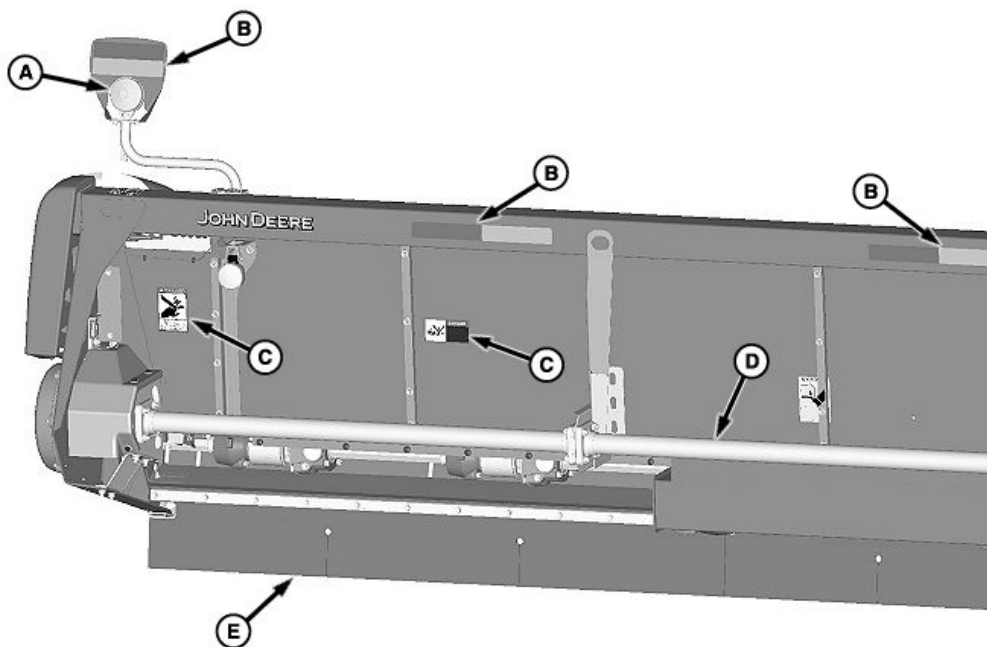
Original Instructions. All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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A John Deere ILLUSTRATION™ Manual

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Safety Features

Header Safety Features



A—Warning Light
B—Reflective Tape

C—Safety Decals
D—Drive Shaft Shields

E—Curtains (Chopping Models
Only)

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

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

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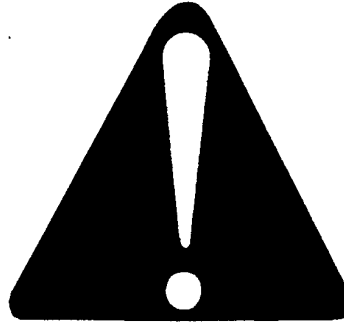
H114321 —UN—05JUN15

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.



TS1389 —JUN—28JUN13

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—30SEP98

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

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.

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

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

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



TS201 —JUN—15APR13

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

DX,READ -19-16JUN09-1/1

Spanish Safety Signs and Operator's Manual

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



TS201 —UN—15APR13

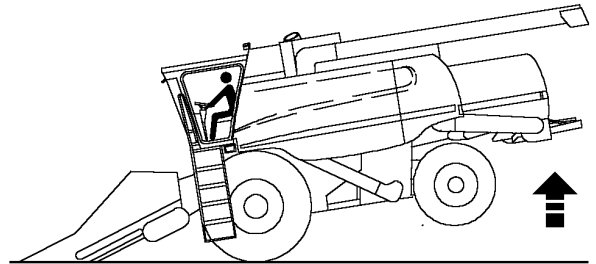
OUO6075,0000145 -19-22MAY08-1/1

Ballasting for Safe Ground Contact

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

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

Observe the maximum permissible axle loads and total weights.



H51907 —UN—10FEB99

HX,AG,SF6782 -19-05FEB99-1/1

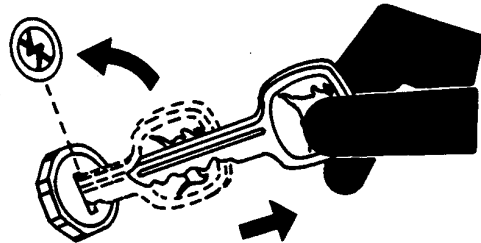
Parking and Leaving the Machine

Lower harvesting unit to the ground.

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

Never leave machine unattended as long as engine is running.

Never leave the operator's cab when driving.



TS230 —UN—24MAY89

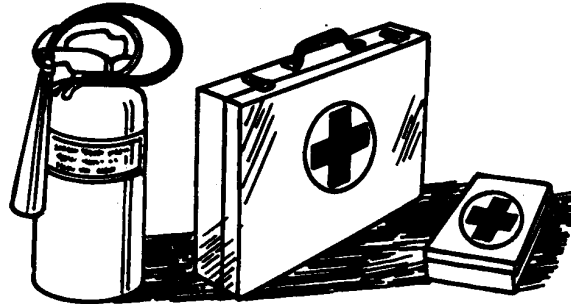
OUO6075,0000AEB -19-11FEB14-1/1

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.



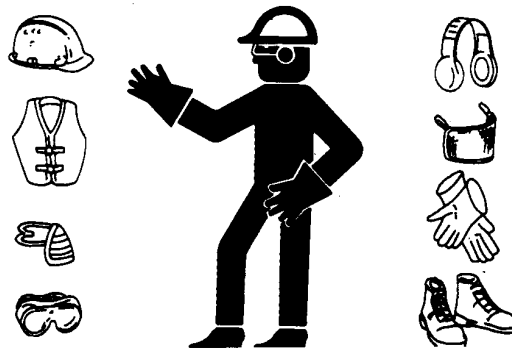
TS291 —UN—15APR13

DX,FIRE2 -19-03MAR93-1/1

Wear Protective Clothing

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

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



TS206 —UN—15APR13

DX,WEAR2 -19-03MAR93-1/1

Stay Clear of Harvesting Units

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



ES 118 704

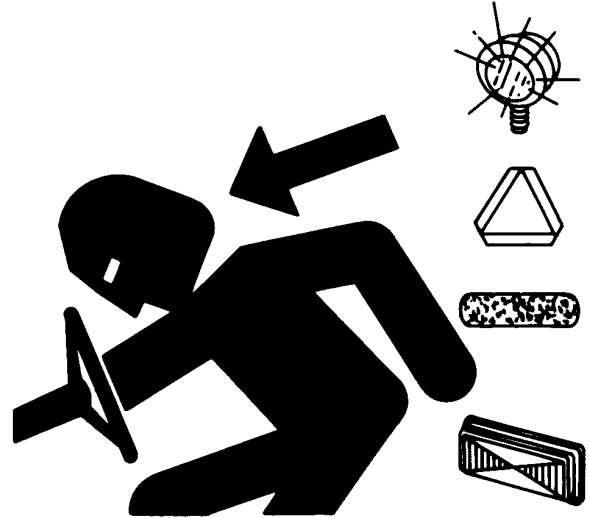
ES118704 —UN—21MAR95

OQO6075,00009E5 -19-28SEP10-1/1

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.



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

TS951 —UN—12APR90

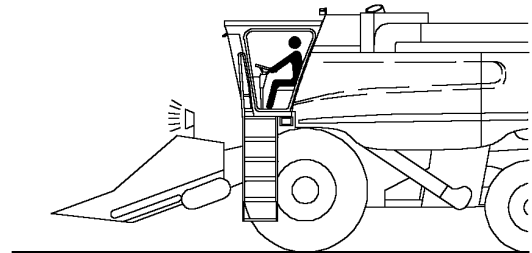
Transport Combine With Header Safely

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

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

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

Drive at a speed that is safe for conditions.



OUC6075,0000034 -19-22JAN01-1/1

H51909 —UN—07MAY99

Road Transport Disconnect Switch



S Series Shown

H100048 —UN—03FEB11



70 Series Shown

H90140 —UN—15OCT07

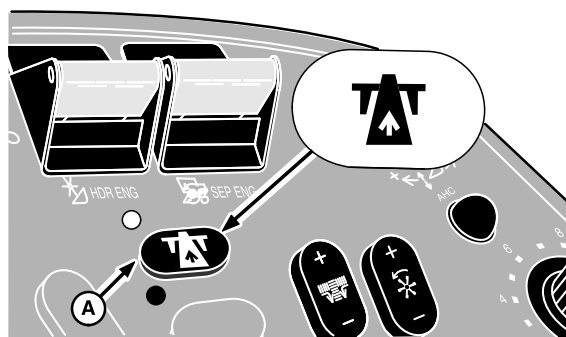
Road transport disconnect switch (A) must be in road position when transporting machine on roadway.

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

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

After transporting machine on roadway and field operation is desired, press road transport disconnect switch for **two**

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



50 and 60 Series Shown

HS2044 —UN—31MAR99

A—Road Transport Disconnect Switch

SS43267,00003FE -19-26JUN14-1/1

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

Remove Paint Before Welding or Heating

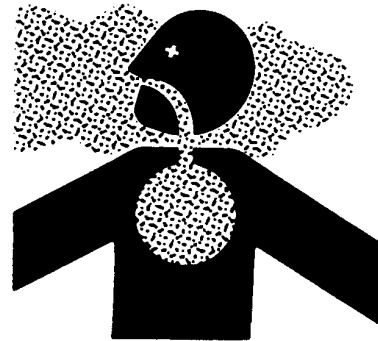
Avoid potentially toxic fumes and dust.

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.

TS220 —UN—15APR13

DX,PAINT -19-24JUL02-1/1

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.

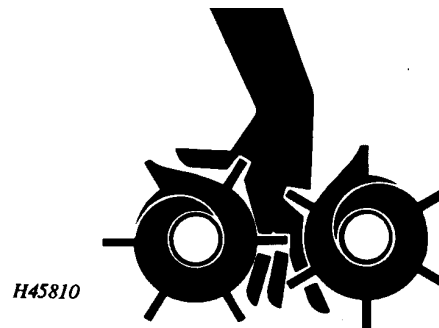


TS953 —UN—15MAY90

DX,TORCH -19-10DEC04-1/1

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 machine can feed the crop material in faster than you can release your grip on the material.



H45810 —UN—22JUL93

SS43267,0000113 -19-10SEP12-1/1

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

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death.

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

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



TS1644 —UN—22AUG95

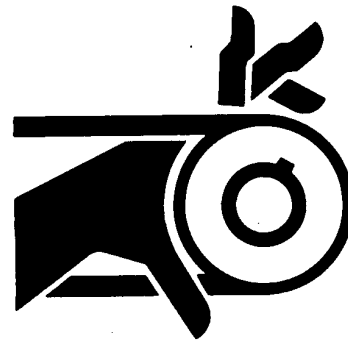
DX,ROTATING -19-18AUG09-1/1

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

JK22594,00000E5 -19-15AUG06-1/1

Avoid High-Pressure Fluids

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

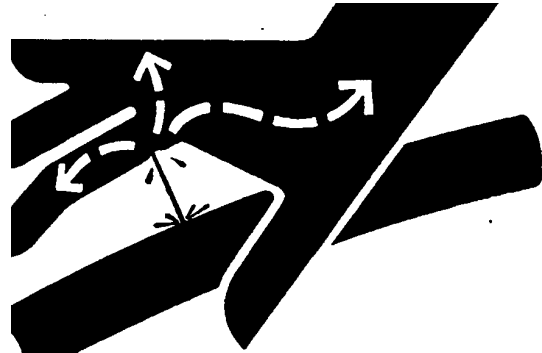
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

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

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

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

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar



with this type of injury should reference a knowledgeable medical source. Such information is available in English from Deere & Company Medical Department in Moline, Illinois, U.S.A., by calling 1-800-822-8262 or +1 309-748-5636.

X9811 —UN—23AUG88

DX,FLUID -19-12OCT11-1/1

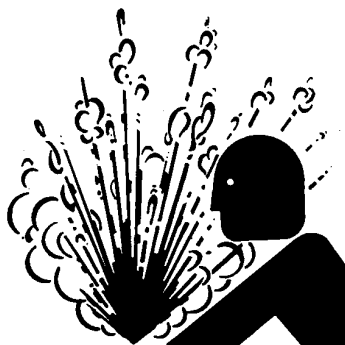
Service Accumulator Systems Safely

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

Relieve pressure from the pressurized system before removing accumulator.

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

Accumulators cannot be repaired.



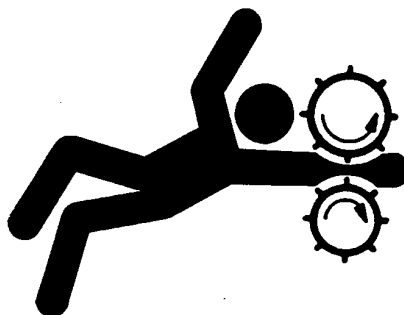
TS281 —UN—15APR13

DX,WW,ACCLA2 -19-22AUG03-1/1

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.



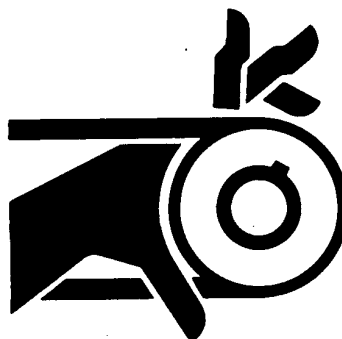
TS228 —UN—23AUG88

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

Service Drive Belts Safely

When servicing drive belts always observe these precautions:

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



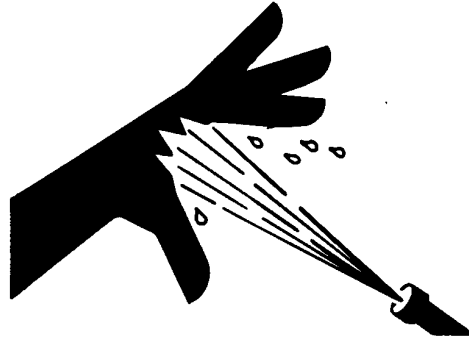
TS285 —UN—23AUG88

OOU6075,00026A4 -19-06FEB03-1/1

Protect Against High Pressure Spray

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

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



DX,SPRAY -19-16APR92-1/1

TS1343 —UN—18MAR92

Dispose of Waste Properly

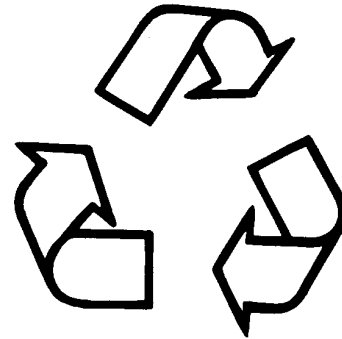
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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

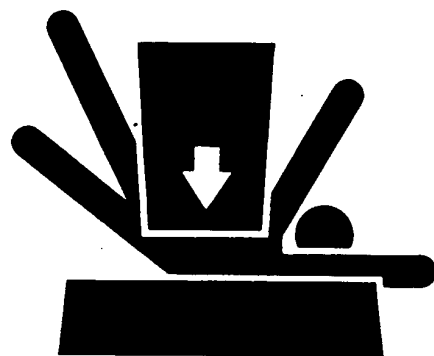
TS1133 —UN—15APR13

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.



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

TS229 —UN—23AUG88

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.

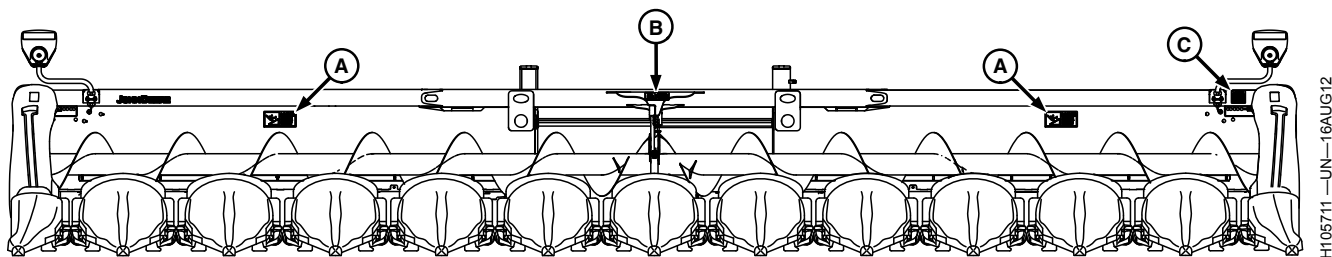


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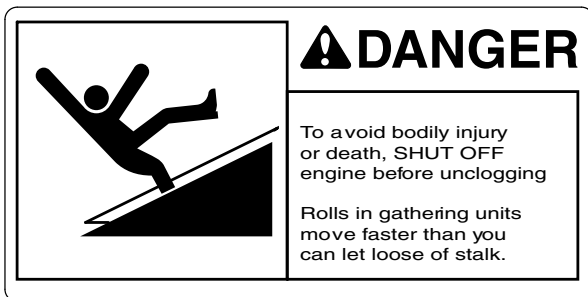
DX,STORE -19-03MAR93-1/1

Safety Signs

Front View Decals

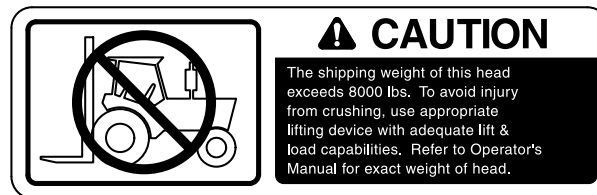


H105711 —UN—16AUG12



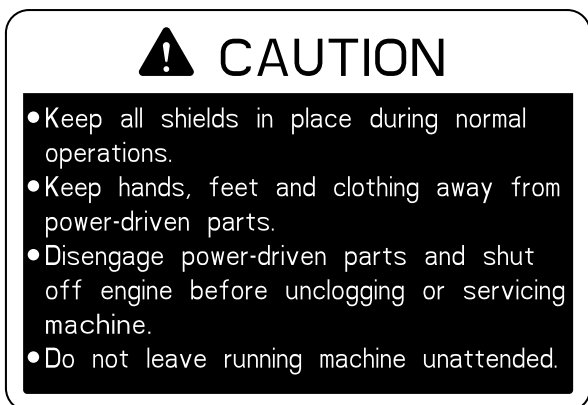
SSH151336 —19—18JUL05

Decal A



SSH233141 —19—11OCT07

Decal B

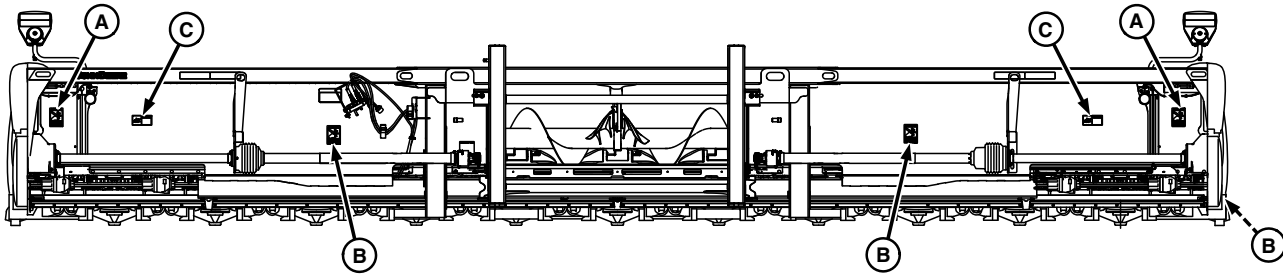


SSHXE19649 —19—07APR11

Decal C

SS43267.0000387 -19-21FEB14-1/1

Rear View Decals



H105712 —UN—16AUG12



Decal C

SSE2514 —19—25JUL05



Decal A

SSH209453 —19—06APR05



Decal B (Chopping Corn Head Only)

SSH218511 —19—15OCT07

SS43267,0000388 -19-21FEB14-1/1

Replace Safety Signs

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

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



DX,SIGNS -19-18AUG09-1/1

TS201 —UN—15APR13

Transporting

Transporting on Trailer

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

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

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

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



Points Shown Folded for Transport

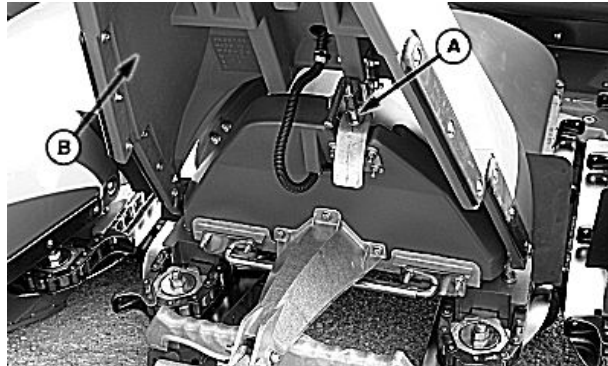
H88843 —UN—31JUL07

KR43067,00007EF -19-16MAR11-1/4

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

A—Latch

B—Point

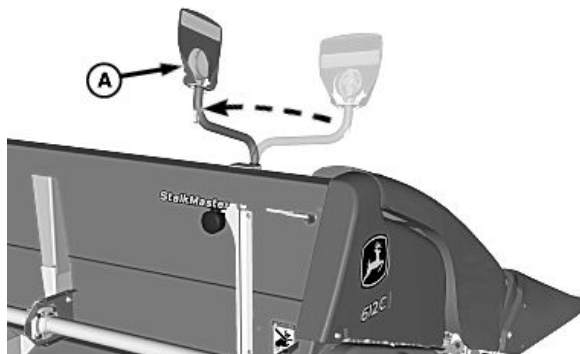


H88847 —UN—24JUL07

KR43067,00007EF -19-16MAR11-2/4

2. Rotate header warning lights (A) rearward.

A—Warning Light



H94376 —UN—26JUN09

Continued on next page

KR43067,00007EF -19-16MAR11-3/4

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

A—Latch



H89293 —UN—14JAN09

KR43067,00007EF -19-16MAR11-4/4

Transporting on Combine

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

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

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

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

Drive at a speed safe for conditions.

1. Completely raise platform with header switch (A).



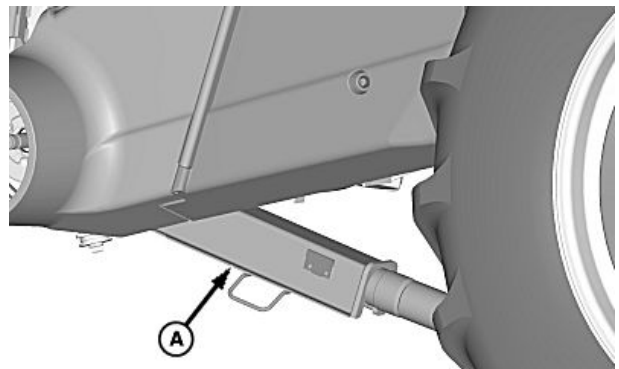
A—Raise/Lower Switch

H102589 —UN—05JUL11

SS43267,00000DF -19-20JUN12-1/4

2. Engage feeder house safety stop (A).

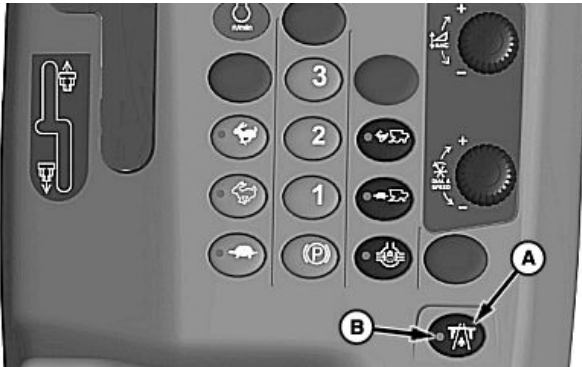
A—Safety Stop



H90891 —UN—26FEB08

Continued on next page

SS43267,00000DF -19-20JUN12-2/4



S Series Shown

H100049 —UN—03FEB11



70 Series Shown

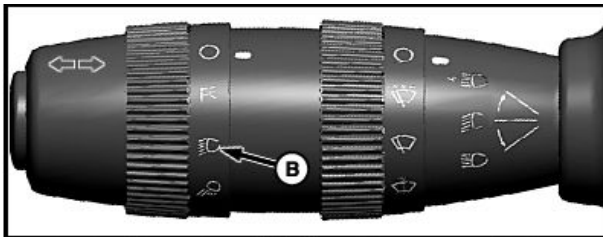
H86951 —UN—20NOV06

A—Road Transport Disconnect Switch B—Indicator Light Switch

3. Engage road transport disconnect switch (A).

NOTE: Light (B) will be ON when switch is engaged.

SS43267,00000DF -19-20JUN12-3/4



S Series Combine

H103736 —UN—24OCT11



70 Series Combine

H90803 —UN—12FEB08

A—Hazard Light Switch B—Road Light Switch

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

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

Do not operate flashing warning lights if prohibited by law.

4. Turn hazard light switch (A) ON for all road travel.

Turn road lights switch (B) ON for nighttime travel. Hazard lights automatically operate when the road lights are ON.

SS43267,00000DF -19-20JUN12-4/4

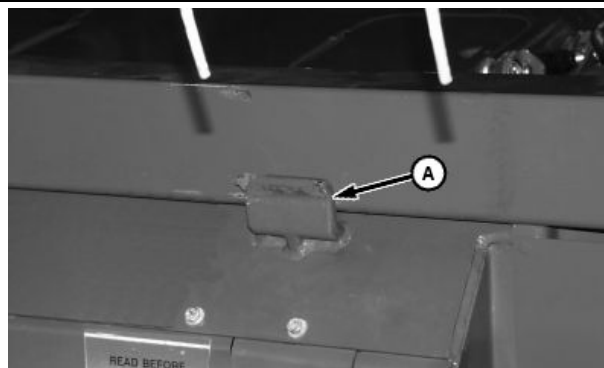
Attaching and Detaching

Attaching Corn Head to Feeder House

IMPORTANT: See your combine Operators 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. Slowly drive combine forward until feeder house is centered in frame opening.
3. Completely raise platform, verifying two hooks (A) on feeder house engage pockets of top frame.
4. Shut OFF engine, set parking brake, remove key, and engage feeder house safety stop.



A—Hook (2 on feeder house)

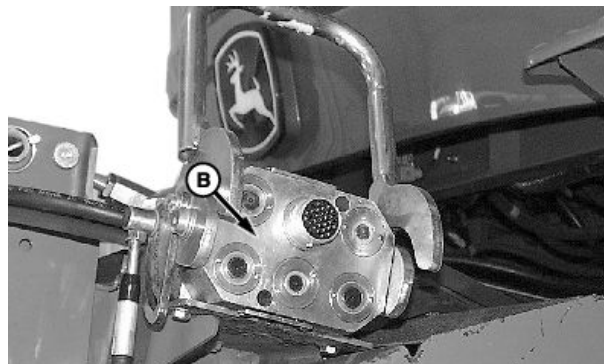
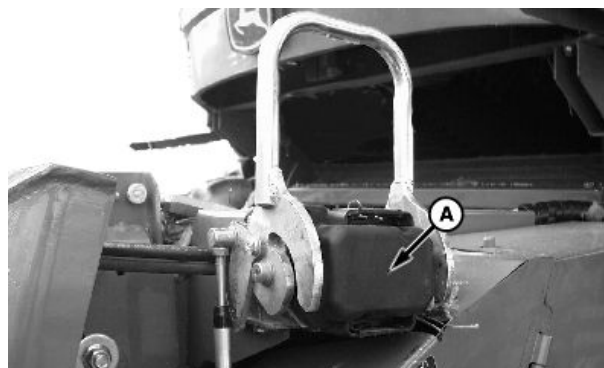
KR43067,0000731 -19-17MAR11-1/9

H70033 —UN—19SEP01

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

A—Cover

B—Multi-coupler Face



Continued on next page

KR43067,0000731 -19-17MAR11-2/9

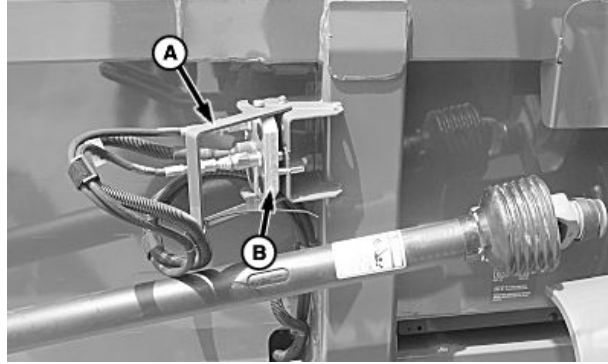
H74036 —UN—19NOV02

H74037 —UN—05NOV02

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

A—Handle

B—Multi-coupler



H89084—UN—17NOV10

KR43067,0000731 -19-17MAR11-3/9

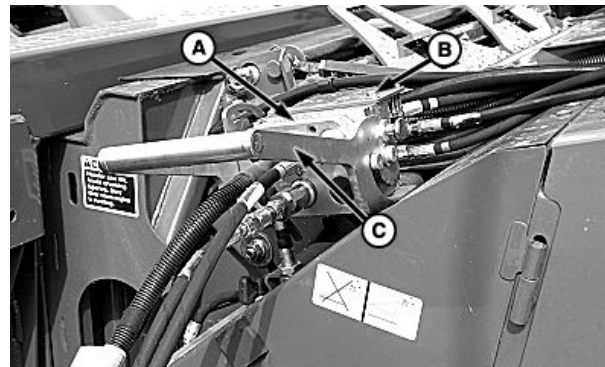
NOTE: To prevent damage to latching cable, a shear screw is attached to the handle. Attempts to actuate latching pins with header on ground will shear the screw on the handle. (See Extra Shear Screw Location later in this section.)

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

KR43067,0000731 -19-17MAR11-4/9

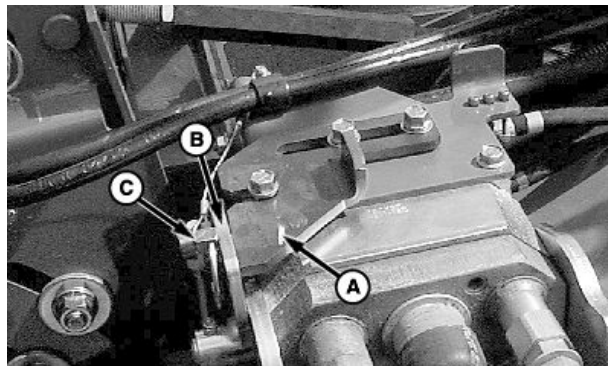
Machines Equipped with Slide Lock Multi-couplers

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

Continued on next page

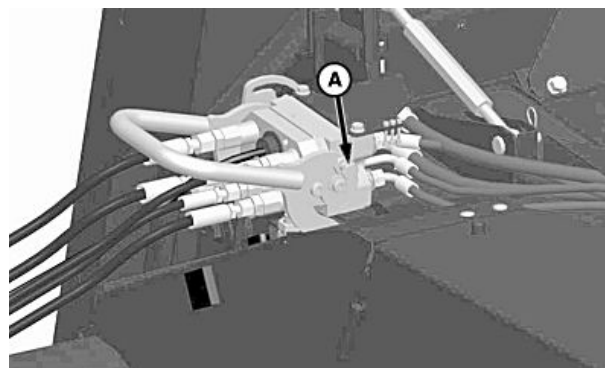
KR43067,0000731 -19-17MAR11-5/9

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



Button Lock Equipped Latch

KR43067,0000731 -19-17MAR11-6/9

H82373 —UN—07FEB05

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 frame (C). Less clearance should be maintained between bottom of plate and pin (D) rather than top of plate and pin (E). This may require latch plate to be flipped.
3. **If adjustment is needed:** Remove cap screws (F), flip plate (B) end for end and reinstall.
4. Tighten cap screws to specification.

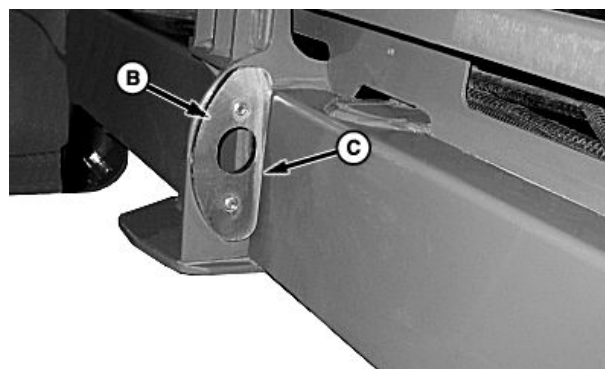
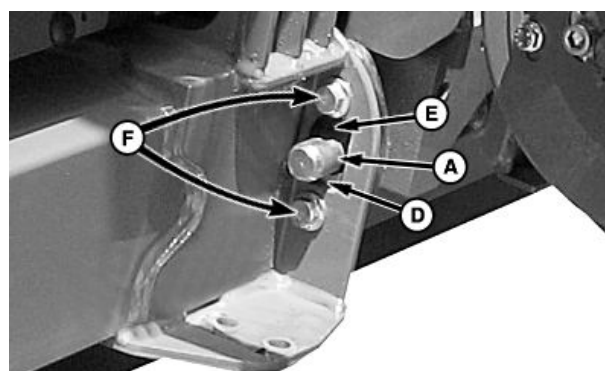
Specification

Latch Plate Mounting Cap

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

A—Latch Pin
B—Latching Plate
C—Frame

D—Lower Gap
E—Upper Gap
F—Cap Screws



Continued on next page

KR43067,0000731 -19-17MAR11-7/9

H100720 —UN—17MAR11

H100709 —UN—17MAR11

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

A—Cover



Storage Position

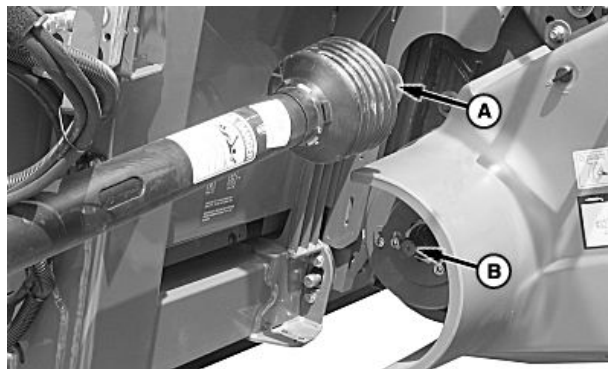
H89283 —UN—14JAN09

KR43067,0000731 -19-17MAR11-8/9

6. Remove telescoping drive shaft (A) from storage position and connect to feeder house shaft (B). Verify quick-attach collar fully locks.

A—Telescoping Drive Shaft

B—Feeder House Shaft



H99085 —UN—17NOV10

KR43067,0000731 -19-17MAR11-9/9

Attaching Corn Head to Pre 60 Series Feeder House

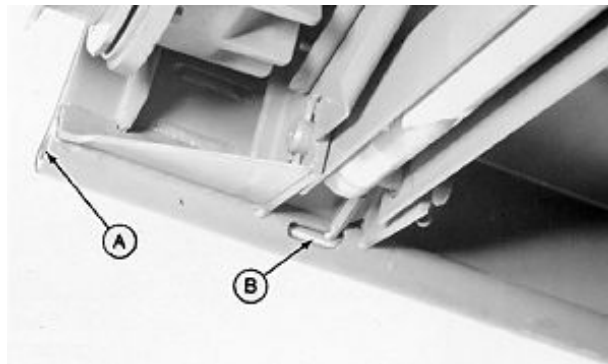
To attach a corn head to an older combine, conversion bundles are required. See your John Deere dealer.

IMPORTANT: Avoid damage to corn head and feeder house. Latch pins (A) on each side of feeder house MUST be retracted before attaching header.

Slide stop bolt (B) inward and rotate up. If pins are extended, feeder house will be damaged when header is attached.

A—Latch Pin

B—Stop Bolt



H41118 —UN—18JUN01

KR43067,0000756 -19-01DEC10-1/1

Attaching Corn Head to Forage Harvester or Corn Husker

For attaching or detaching corn head on a forage harvester or a corn husker refer to Operators Manual for that machine.

KR43067,0000751 -19-01DEC10-1/1

Detaching Corn Head from Feeder House

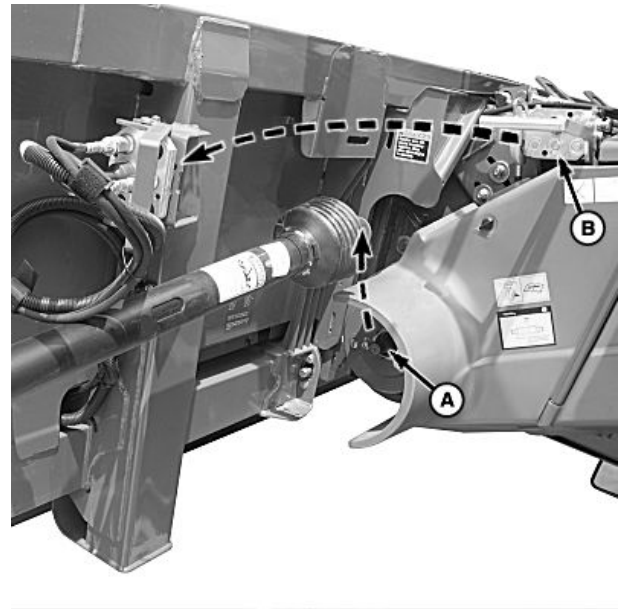
CAUTION: Do not leave drive shafts connected to combine. Personal injury or machine damage may occur if feeder house is accidentally engaged.

1. Disconnect telescoping drive shaft from feeder house shaft (A) and place on storage bracket.

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*).

2. Remove quick-lock pin and slide lock plate through multi-coupler latch assembly.
3. Remove multi-coupler cover from storage position on header.
4. Raise handle and remove multi-coupler from feeder house connection point (B).
5. Place multi-coupler in storage position on platform and lock in place using handle.



A—Feeder House Shaft

B—Multi-coupler Connection

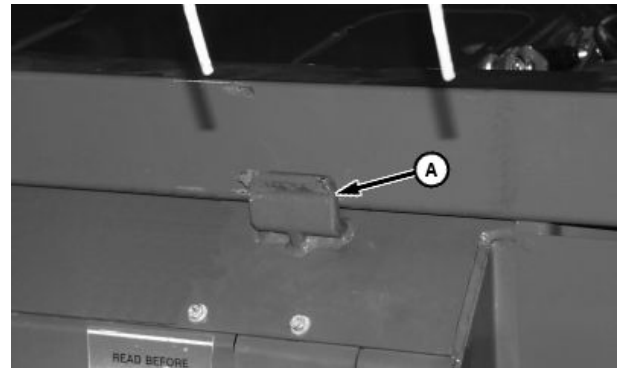
6. Place cover on feeder house connection point and lock handle.

KR43067,0000732 -19-01DEC10-1/2

H89086 —UN—17NOV10

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

A—Hooks (2 on feeder house)



KR43067,0000732 -19-01DEC10-2/2

H70033 —UN—19SEP01

Single Point Latching—Adjusting

NOTE: Lateral Tilt 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.

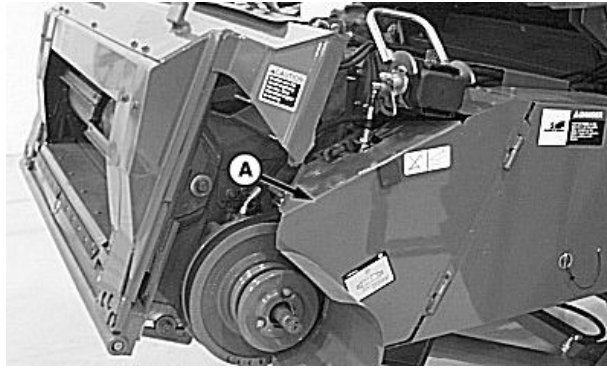
1. Open left-hand feeder house shield (A).
2. Loosen cable jam nuts (B).

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

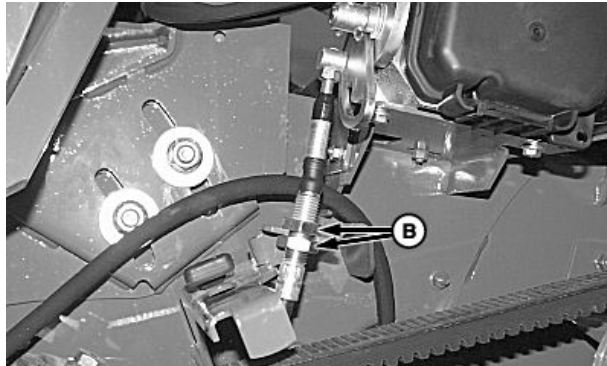
3. Rest multi-coupler handle against stop.

A—Shield

B—Jam Nuts



H78649—UN—17OCT03



H78650—UN—17OCT03

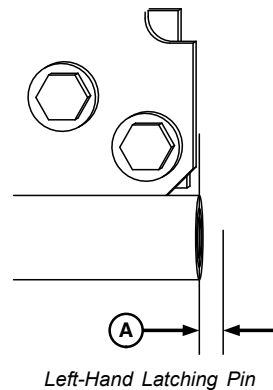
SS43267,0000312 -19-26JUN14-1/4

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



H79344—UN—10DEC03

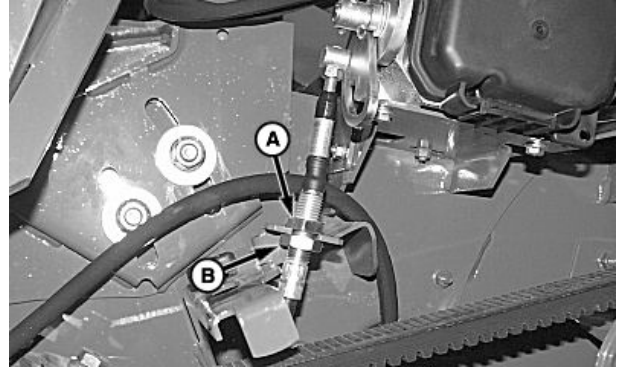
Continued on next page

SS43267,0000312 -19-26JUN14-2/4

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

A—Top Jam Nut

B—Bottom Jam Nut



H81289 —UN—23JUN04

SS43267,0000312 -19-26JUN14-3/4

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

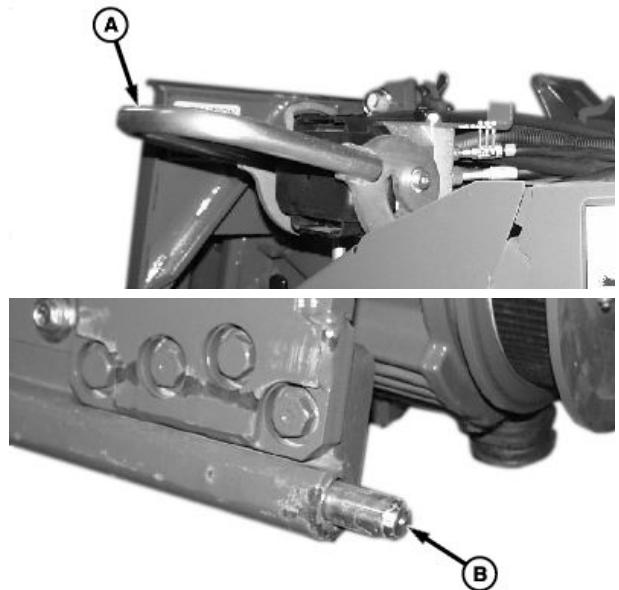
6. Fully lower multi-coupler handle (A) and verify pins (B) (both sides) are set to specification. Readjust if not set to specification.

Specification

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

A—Multi-coupler Handle

B—Pins



H81287 —UN—23JUN04

H81288 —UN—23JUN04

SS43267,0000312 -19-26JUN14-4/4

Level Land Feeder House Lower End Cable—Adjusting

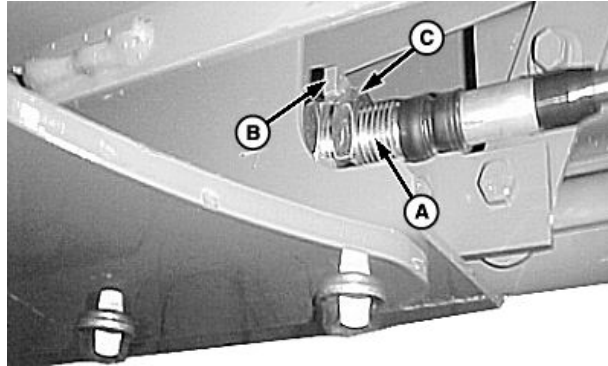
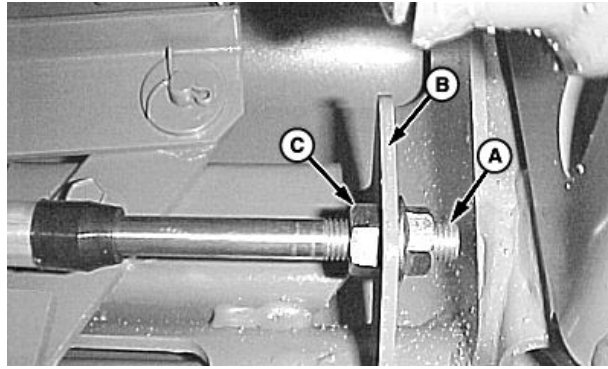
Adjustments should be made to the lower end of the latching cable if the threads (A) are not centered in the bracket (B).

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

H79388—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

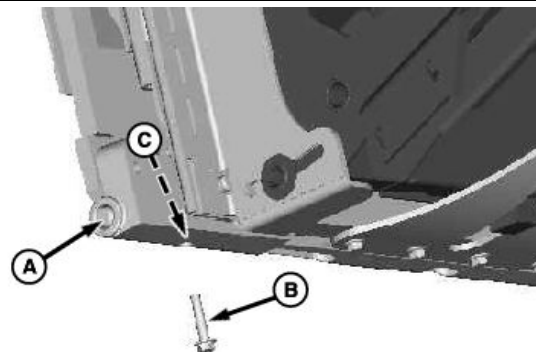
MH81805,0000701 -19-17MAR05-1/1

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

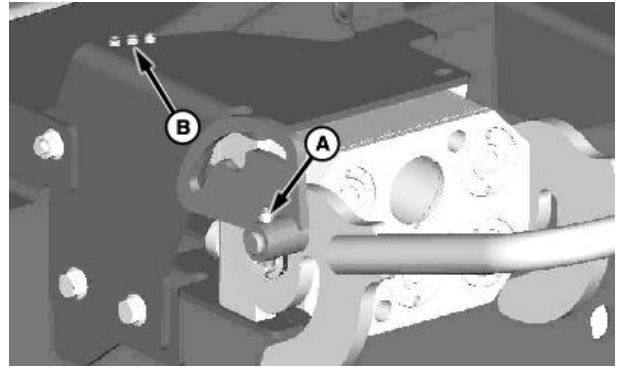
MH81805,0000702 -19-17MAR05-1/1

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



H74311 —UN—25NOV02

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

Calibration and Settings

When to Calibrate

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

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

- Header Calibration -LC1 (hdr)
- Lateral Tilt Angle Sensor Calibration - LC1 tilt (Optional)
- Hydraulic Adjustable Deck Plate -LC1 (Optional) on a 50 and 60 Series Combines Sensor Calibration - dEc

CommandCenter is a trademark of Deere & Company

- 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 CommandCenter™ Display on S and 70 Series Combines.

SS43267,00003FF -19-26JUN14-1/1

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.

KR43067,0000757 -19-01DEC10-1/1

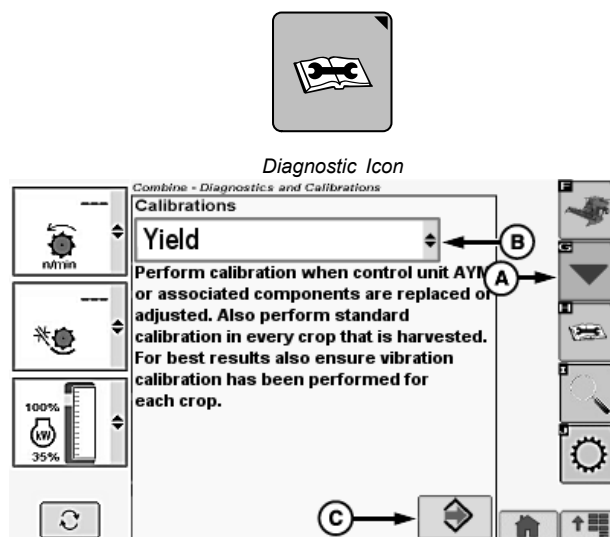
User Calibration Procedures for S Series Combines

See your combine Operators Manual for available calibrations.

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

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

H94478 —UN—31MAR10



H94928 —UN—11OCT10

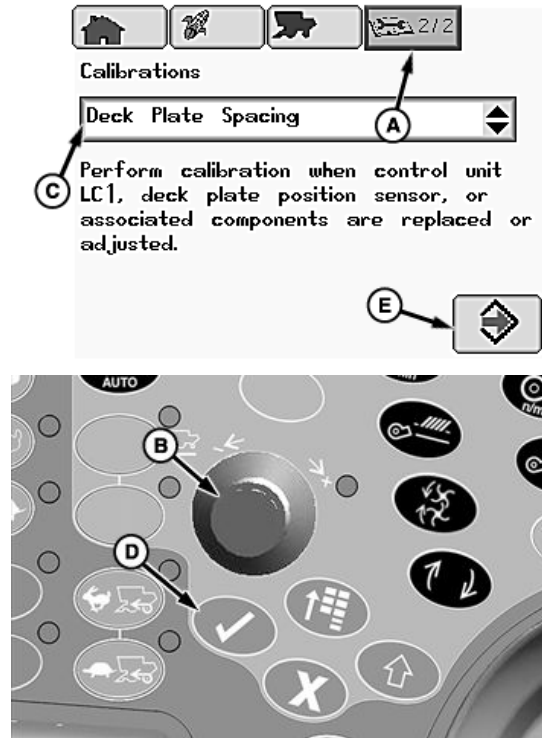
KR43067,0000965 -19-24OCT11-1/1

User Calibration Procedures for 70 Series Combines

See your combine Operators Manual for available calibrations.

1. From diagnostics and calibration icon (A), rotate selection dial (B) until calibrations menu (C) is highlighted. Press confirm switch (D).
2. Rotate selection dial until desired calibration is highlighted and press confirm switch.
3. Rotate selection dial until Enter/Accept icon (E) is highlighted and press confirm switch.
4. Follow instructions shown on screen to perform desired calibration.
5. Repeat procedure as necessary for additional calibrations.

A—Diagnostics and Calibration Icon
B—Selection Dial
C—Calibrations Menu
D—Confirm Switch
E—Enter/Accept Icon



KR43067,00007F2 -19-16MAR11-1/1

H87479 —UN—21FEB07

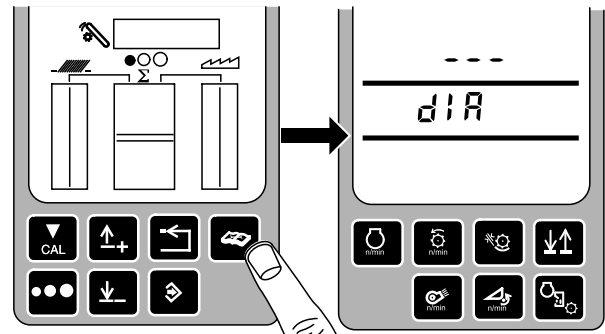
H86977 —UN—20NOV06

User Calibration Procedures for 50/60 Series Combines

Prepare header for calibration:

- Attach header to combine and connect header harness to combine harness.
- Set air spring to set point gauge (See AIR SPRING SETUP (PRIOR TO HEADER CALIBRATION) in this section).
- Make sure header height sensors (if equipped) are operating.
- Start combine and drive onto a level firm surface.

Press the diagnostic switch. **DIA** will appear on the triple display tachometer.

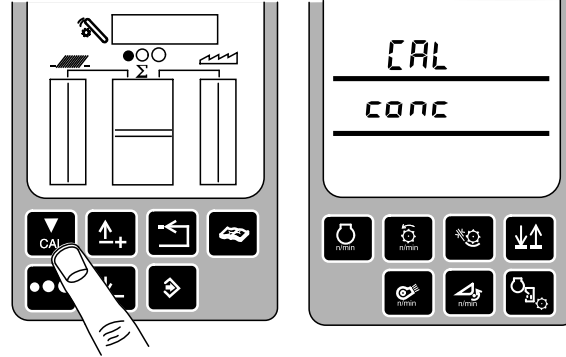


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KR43067,0000966 -19-24OCT11-1/10

H71445 —UN—28MAR02

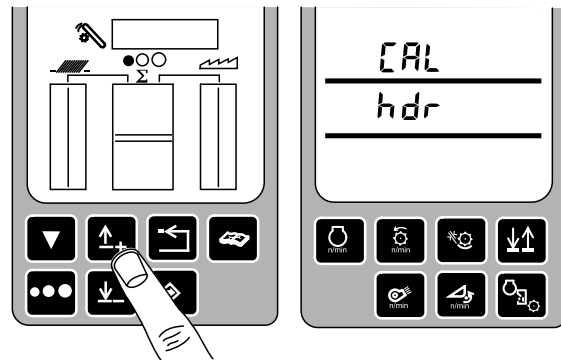
Press the calibration switch. **CAL** and **conc** will appear on the triple display tachometer.



H68151 —UN—23MAY01

KR43067,0000966 -19-24OCT11-2/10

Press the up or down arrow keys until **CAL** and **hdr** appears on the triple display tachometer.



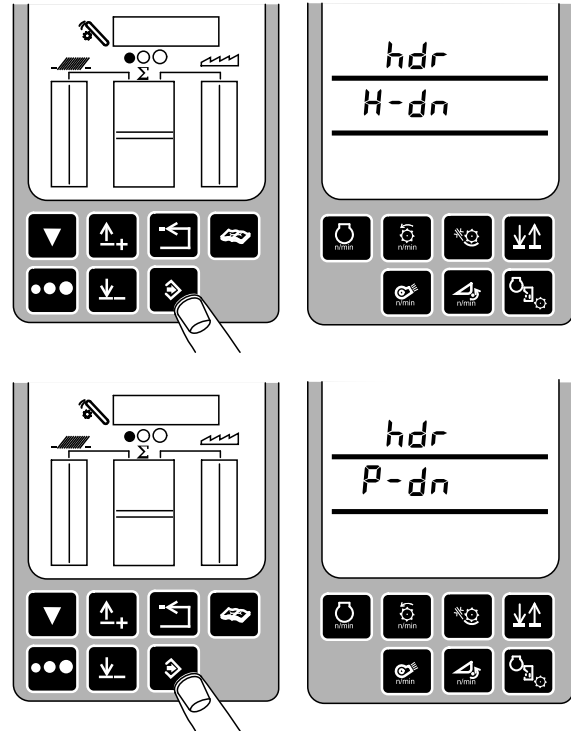
H68159 —UN—23MAY01

Continued on next page

KR43067,0000966 -19-24OCT11-3/10

Press the enter switch to access the header calibration mode. **hdr** and **H-dn** (**P-dn** will appear for a HYDRAFLEX head that has pressure in it) will now appear on the triple display tachometer.

NOTE: If Hydraflex platform is equipped with auxiliary sensors H-dn will appear.



H68160 —UN—23MAY01

H71305 —UN—14MAR02

KR43067,0000966 -19-24OCT11-4/10

Establish sensor minimum setting.

Lower and tilt the header with the header raise/lower and tilt switch (A) until it rests flat on the ground.

A—Header Raise/Lower Switch



H74747 —UN—18MAR03

Continued on next page

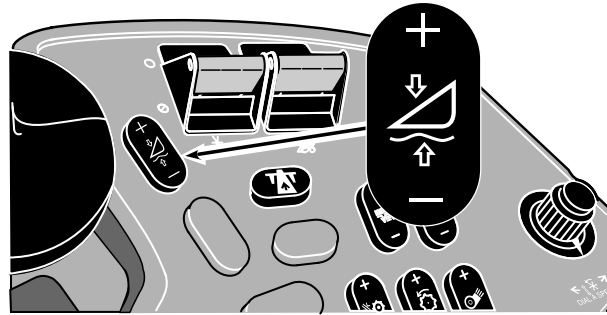
KR43067,0000966 -19-24OCT11-5/10

If **H-dn** is displayed, go to next step.

If **P-dn** is displayed, decrease pressure with the header float button until pressure is below 1000 psi (6900 kPa) (69 bar).

Float pressure will be displayed as the pressure is lowered.

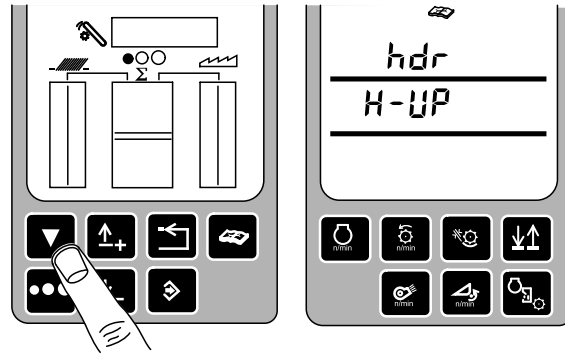
H-dn will appear when pressure is below 1000 psi (6900 kPa) (69 bar).



H75742 —UN—18MAR03

KR43067.0000966 -19-24OCT11-6/10

Press the calibration switch. **hdr** and **H-UP** will be displayed on the triple display tachometer.



H68161 —UN—23MAY01

KR43067.0000966 -19-24OCT11-7/10

Establish sensor maximum setting.

Raise the header completely with the header raise/lower switch (A).

A—Header Raise/Lower Switch

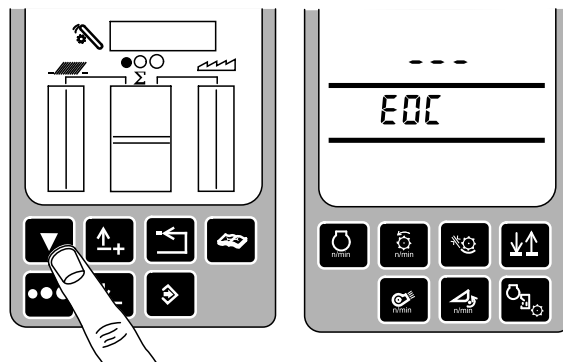


H74747 —UN—18MAR03

Continued on next page

KR43067.0000966 -19-24OCT11-8/10

Press the calibration switch. **EOC** will be displayed on the triple display tachometer.

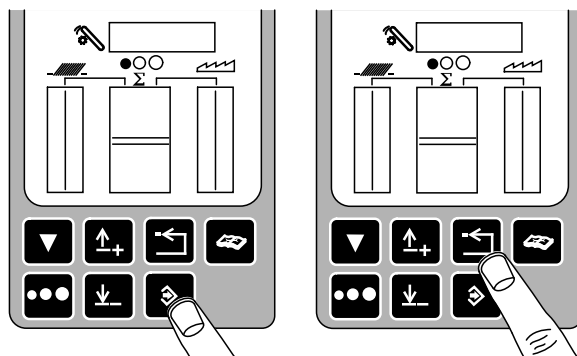


H68162 —UN—23MAY01

KR43067,0000966 -19-24OCT11-9/10

Press the enter switch to save the calibration values and return to normal operation or press the back arrow switch to abort the calibration (and not save values).

Press the back arrow switch to return to normal operation.



H68163 —UN—23MAY01

KR43067,0000966 -19-24OCT11-10/10

Adjusting Feeder House Drop Rate and Sensitivity — S and 70 Series Combines

Height Sensing and Active Header Float Pressure Sensitivity (Automatic Functions): Controls the response rate for header movements when operating in automatic sensing and automatic float modes.

Changing rate for automatic functions:

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

NOTE: Sensitivity setting will be shown on armrest display (C) when adjusting.

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

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

C—Sensitivity Settings



S Series Shown



70 Series Shown

H89167—UN—23NOV10

H87056—UN—30JUL07

Continued on next page

KR43067,00007BA -19-09FEB11-1/2

Manual Raise/Lower Speed (Manual Functions):

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

Changing rate for manual functions:

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

NOTE: Sensitivity setting will be shown on armrest display (C) when adjusting.

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

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

C—Rate Settings



S Series Shown



70 Series Shown

H99167—UN—23NOV10

H87057—UN—30JUL07

KR43067,00007BA -19-09FEB11-2/2

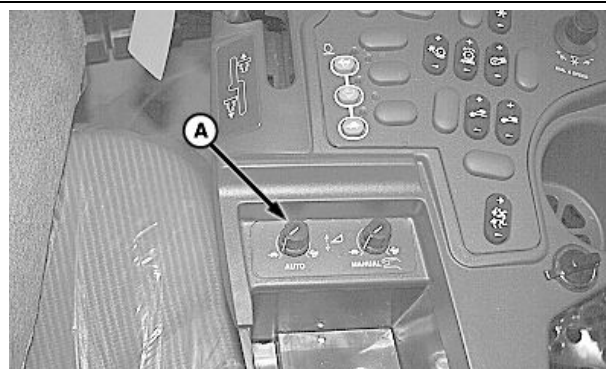
Adjusting Feeder House Drop Rate and Sensitivity — 60 Series and Older Combines

Drop Rate for 60 Series STS

NOTE: Response rate control for Header Height Sensing and Active Header Float Pressure (Automatic Functions).

Dial (A) controls response rate of header raise/lower functions when in automatic mode. See your combine Operators Manual for procedures.

A—Dial



H80536—UN—31MAR04

Continued on next page

KR43067,00007B8 -19-09FEB11-1/2

**Drop Rate for 60 series Walkers CTS & Sidehill,
All 50 Series, and All 9000/10 Series**

Loosen nut and adjust screw (A) out for faster manual drop; in for slower drop rate.

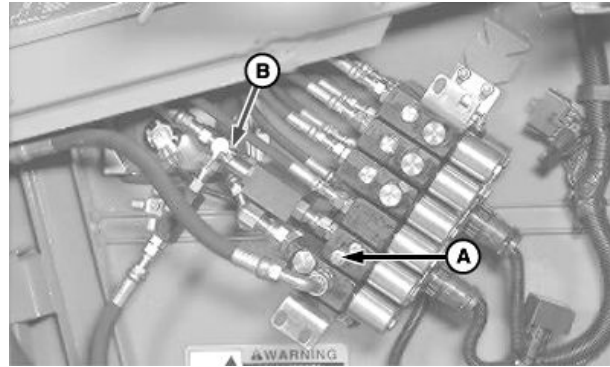
Tighten nut after adjusting.

On combines with active header control or Dial-A-Matic:

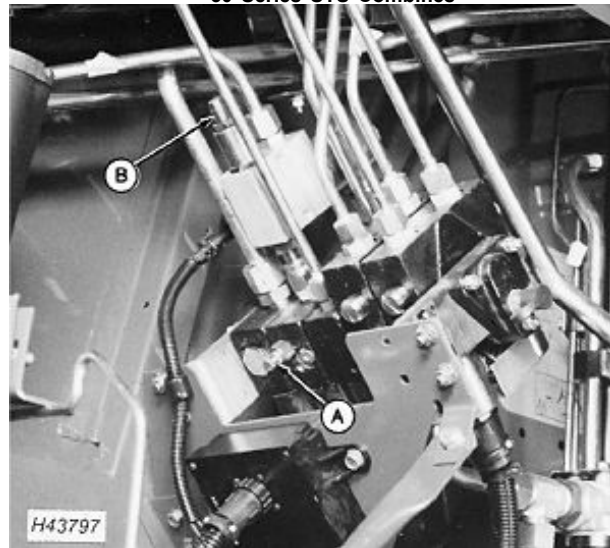
- Turn knob (B) completely in (fully closed).
- Turn knob 3/8 of a turn out.
- Adjust as necessary to stabilize system in automatic mode under field conditions.

A—Adjusting Screw

B—Knob



50 Series STS Combines



Walkers, CTS, Sidehill Combines

H80519—UN—30MAR04

H43797—UN—21AUG91

KR43067,00007B8 -19-09FEB11-2/2

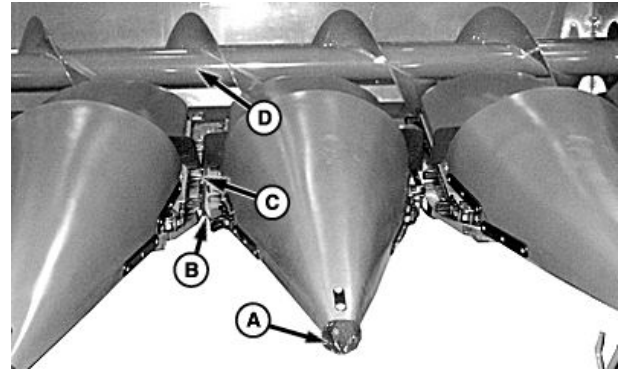
Operating the Corn Head

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 through the row unit.

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

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



H89415—UN—01AUG07

A—Gatherer Point
B—Stalk Rolls

C—Gatherer Chain
D—Auger

KR43067,0000743 -19-23NOV10-1/1

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.

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

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

KR43067,0000744 -19-23NOV10-1/1

Corn Head Speed of Travel

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

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

KR43067,0000745 -19-23NOV10-1/1

Armrest Functions



S-Series Combines



70-Series Combine

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

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

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

SS43267,00003D3 -19-01JUL14-1/1

Active Header Control Display—Features

NOTE: For complete information on each function refer to your combine Operators Manual.

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

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

IMPORTANT: Performing any header calibration may automatically enable all six header modes discussed below.

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

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

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

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

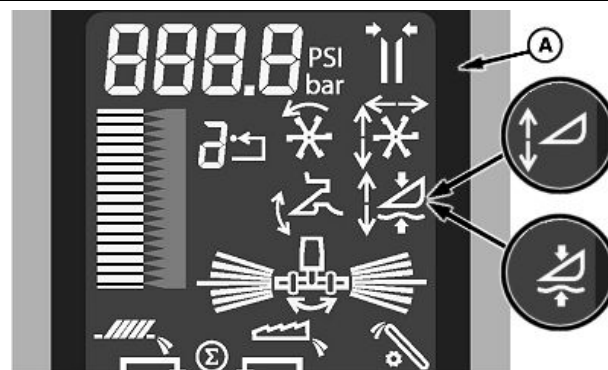
Dial-A-Speed Button (E): Allows operator to select an automatic operating speed for reel or belt pickup belts. Operating speed is a ratio of machine ground speed to reel/belt speed.

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

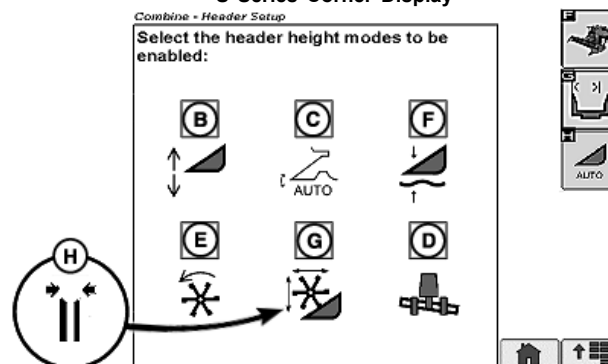
NOTE: Feeder House Float mode is not recommended with HydraFlex™ auger or 600 series draper platforms, as excessive wear of the poly skid shoes may occur.

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

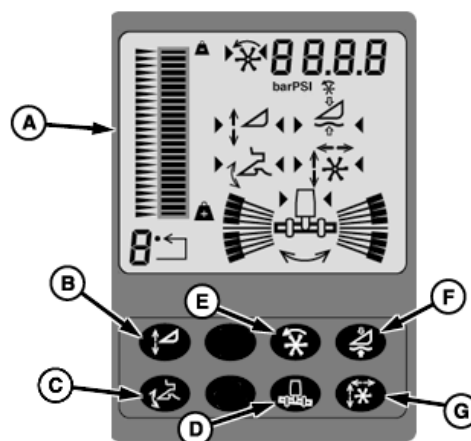
HydraFlex is a trademark of Deere & Company



S Series Corner Display



S Series Buttons



70 Series Corner Display and Buttons

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

H100107 —UN—08FEB11

H100108 —UN—08FEB11

H86001 —UN—13DEC06

Description of Automatic Header Height Control Systems

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

System Requirements:

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

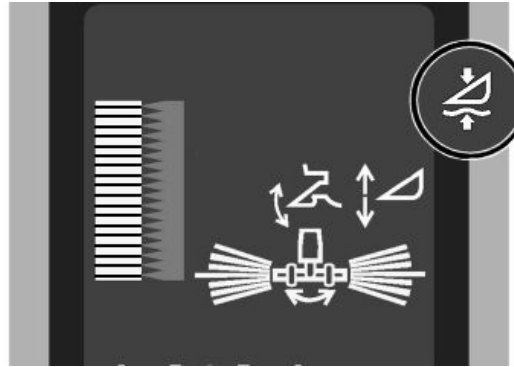
Lateral Tilt Adjustment—Two modes

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

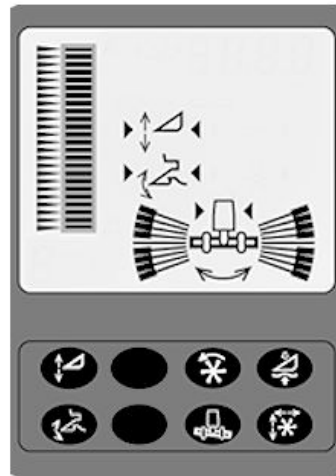
Platform Height Adjustment—Four Modes

- Manual Adjust — hydraulic components are directly activated by multi-function lever.
- 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.

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



S Series Shown



H100084 —UN—08FEB11

H86522 —UN—13DEC06

KR43067,00007B1 -19-09FEB11-1/1

Corn Head Engage/Disengage Drive

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

To engage header.

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

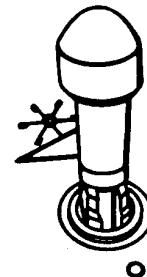
A—Road Transport Disconnect Switch
B—Separator Engage Switch
C—Header Engage Switch



S Series Shown



70 Series Shown



H43694

9000 and 10 Series Shown

H89168 —UN—23NOV10

H89636 —UN—15AUG07

H43694 —UN—06AUG91

KR43067,0000746 -19-23NOV10-1/1

Deck Plate Control and Resume



S Series Combine

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

System is active when:

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

Setting Deck Plate Opening:

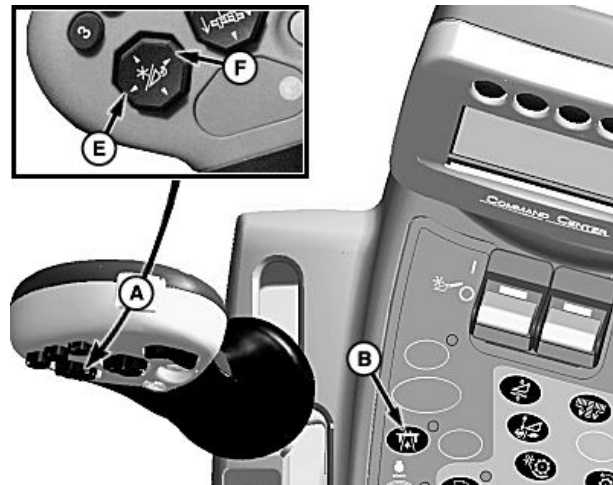
1. Press left-hand side of reel position switch (E) to increase deck plate opening.
2. Press right-hand side of reel position switch (F) to decrease deck plate opening.

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

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

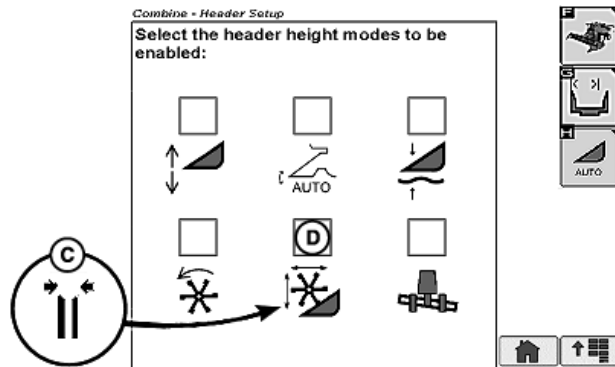
Deck Plate Resume:

1. Manually set desired deck plate opening.
2. Press and hold activation button 1, 2, or 3 on multi-function lever for three seconds to memorize



H103735—UN—24OCT11

H103737—UN—24OCT11



A—Reel Position Switch
B—Road Transport Disconnect Switch
C—Deck Plate Activation Icon (S Series)

D—Deck Plate Activation Icon (70 Series)
E—Reel Forward Switch
F—Reel Aft Switch

current deck plate position. Operator can now return to preset position anytime by pressing assigned activation button.

H103738—UN—24OCT11

SS43267,00001D1 -19-15JAN13-1/1

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

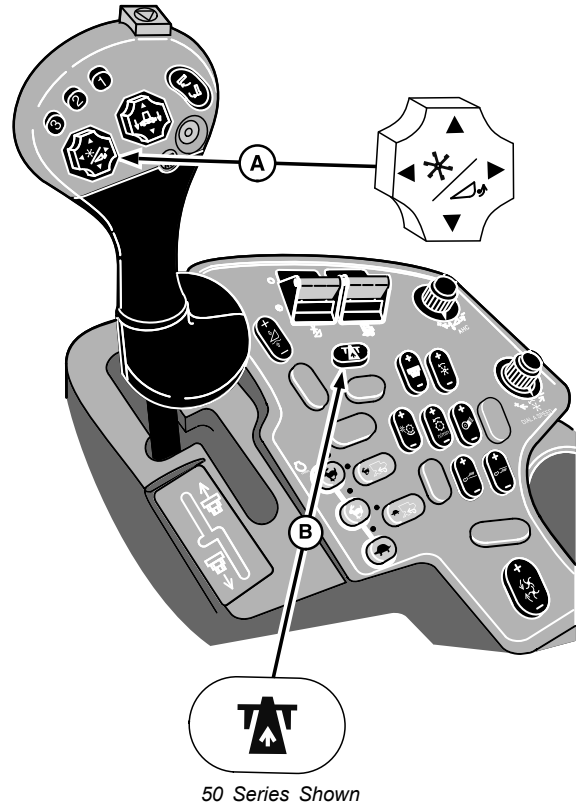
Corn head operating speed is varied by changing speed of the lower feeder house shaft. Feeder house shaft speed is changed using the reel switch (A) located on the multifunction control handle.

NOTE: Engine must be running with header engaged to adjust speed.

1. Set road transport disconnect switch (B) in field position.
2. Press and hold top of reel switch to increase speed.
3. Press and hold bottom of reel switch to decrease speed.

A—Reel Switch

B—Road Transport Disconnect Switch



KR43067,0000747 -19-23NOV10-1/1

H74734 —UN—18MAR03

00 and 10 Series Combines With Variable Belt Drive Feeder House

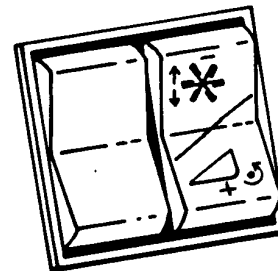
Corn head operating speed is varied by changing speed of the lower feeder house shaft. Feeder house shaft speed is changed using the plus (+) or minus (-) switch located on the multifunction control handle.

NOTE: Engine must be running with header engaged to adjust speed.

1. Press and hold bottom of switch to increase speed.
2. Press and hold top of switch to decrease 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

00 and 10 Series Shown

KR43067,0000968 -19-24OCT11-1/1

H43707 —UN—06AUG91

Combines With Fixed-Speed Feeder House

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

KR43067,0000749 -19-01DEC10-1/1

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 gatherer points and shields. This material is pushed into piles that prevent stalks from contacting the stalk rolls. Crop is lost and harvesting productivity is reduced when this occurs.

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

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

KR43067,0000969 -19-24OCT11-1/1

Harvesting Popcorn

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

- Decrease header backshaft speed.
- Check combine Operators Manual for correct settings.

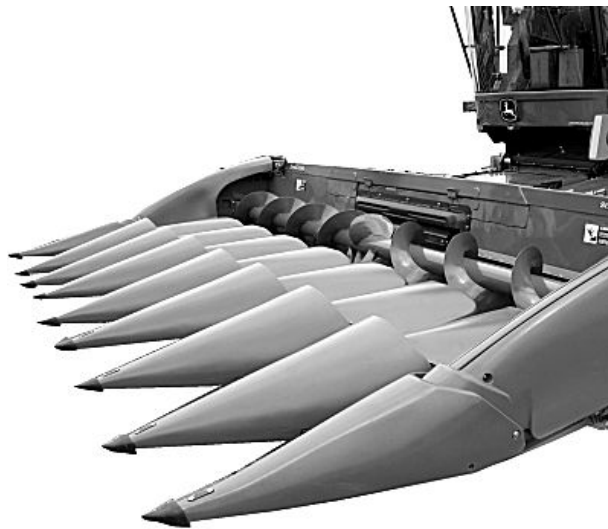
KR43067,0000753 -19-01DEC10-1/1

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.

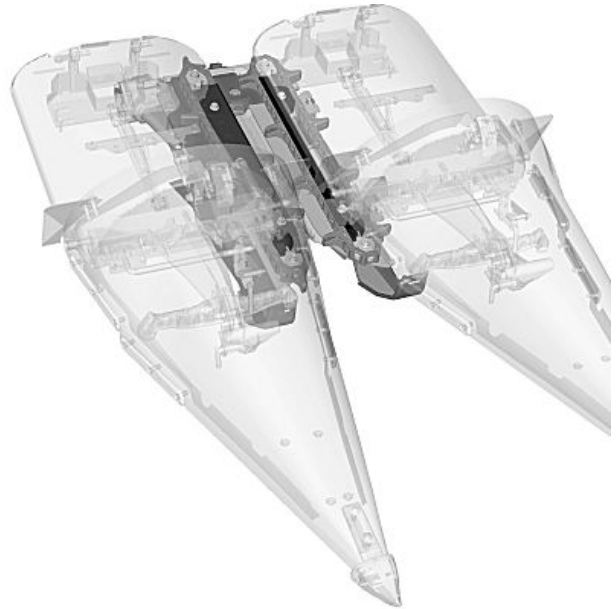


H89417 —UN—01AUG07

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

Row Units

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



H89154 —UN—22NOV10

KR43067,00005BA -19-01DEC10-1/1

Auger

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

A—Auger



H89295 —UN—20JUL07

OUC6043,0001C88 -19-03JAN08-1/1

Hydraulic Adjustable Deck Plates

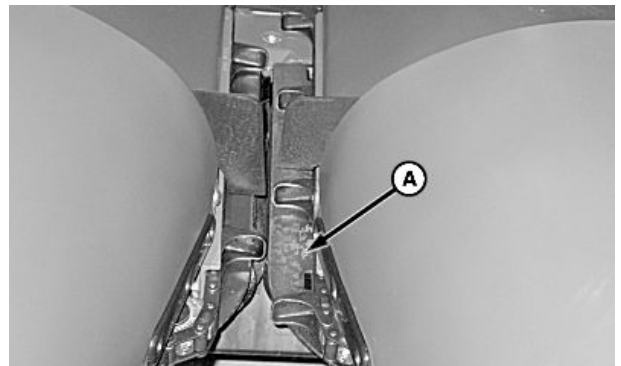
NOTE: To adjust or calibrate your deck plates, see your combine Operator's Manual.

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

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

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

A—Deck Plate



H89701 —UN—21AUG07

KR43067,0000360 -19-21APR09-1/1

Outer Gatherer Extensions

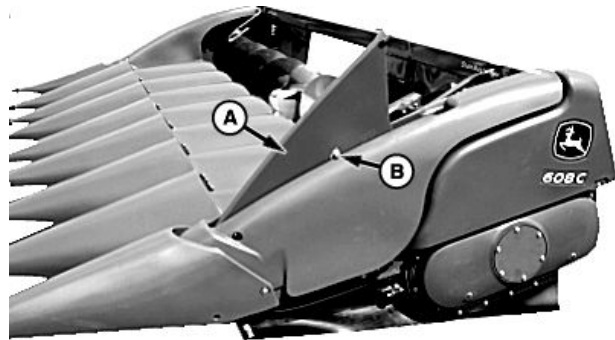
Outer gatherer extensions (A) prevent ear loss over the sides of low profile gatherer sheets.

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

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

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

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



A—Extensions

B—Pin

KR43067,00005A0 -19-12MAY10-1/1

H89215—UN—23JUL07

Raising and Removing Inner Gatherer Points and Shields

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

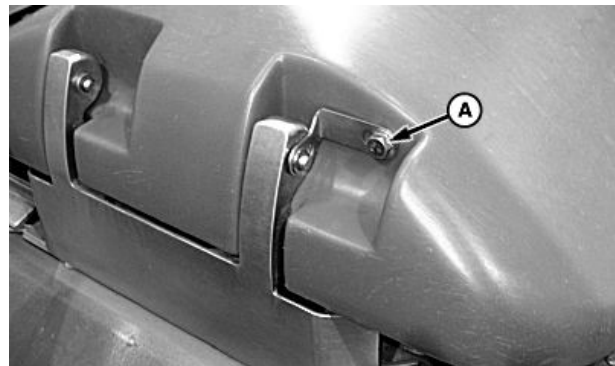
NOTE: Do not over tighten cap screw (B) when installing lock.

Specification

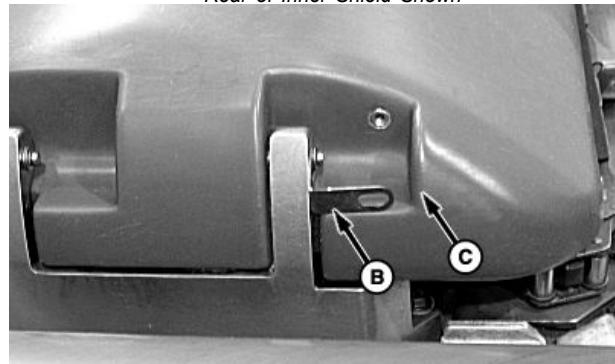
Gatherer Shield Lock	
Cap Screw—Torque.....	20 N·m (15 lb.-ft.)

A—Cap Screw
B—Shield Lock

C—Shield



Rear of Inner Shield Shown



Continued on next page

DM84283,00006FC -19-22MAY15-1/2

H102222—UN—15JUN11

H102223—UN—15JUN11

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

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

4. Pull latch bar (B) and lift point and shield assembly together.
5. **IF EQUIPPED:** Disconnect any sensor harness connectors from main wiring harness. To access connectors located inside shield, cut tie bands attached to rear of shield, and pull connectors out.
6. *Disconnect lift cylinder:*
 - a. Remove locking cap screw (E).
 - b. Apply upward pressure to gatherer shield (C) until retaining pin is at rear of slotted hole (D).
 - c. Lift cylinder mount (E) upwards until mount clears pins.

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

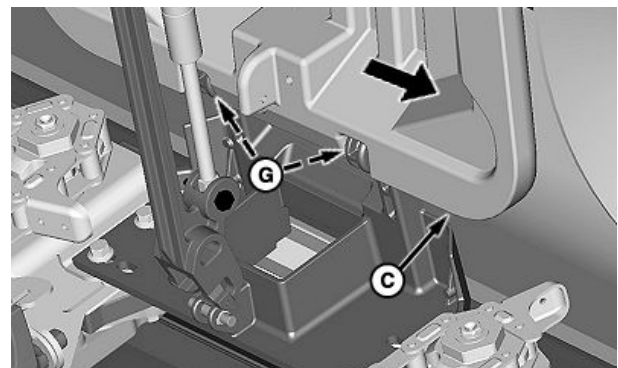
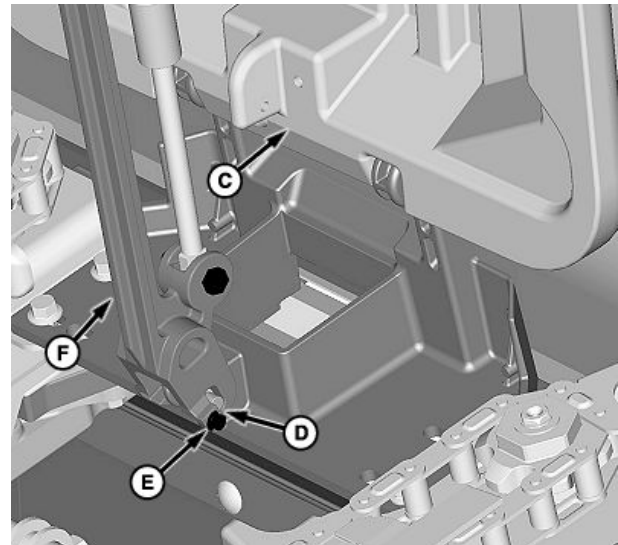
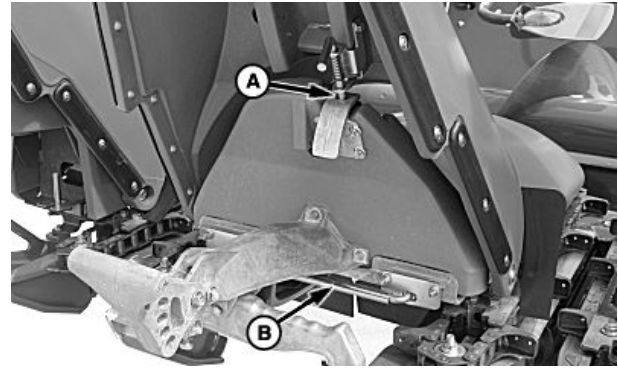
7. Slide gatherer shield (C) sideways until shield is free of support pins (G), and lift shield assembly off mount.
8. Install gatherer shield in reverse order following special instruction.
 - Tighten locking cap screw (E) to specification.

Specification

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

A—Pin
B—Latch Bar
C—Gatherer Shield
D—Rear of Slotted Hole

E—Locking Cap Screw
F—Lift Cylinder Mount
G—Attachment Pins



DM84283,00006FC -19-22MAY15-2/2

H99087—UN—17NOV10

H114328—UN—05JUN15

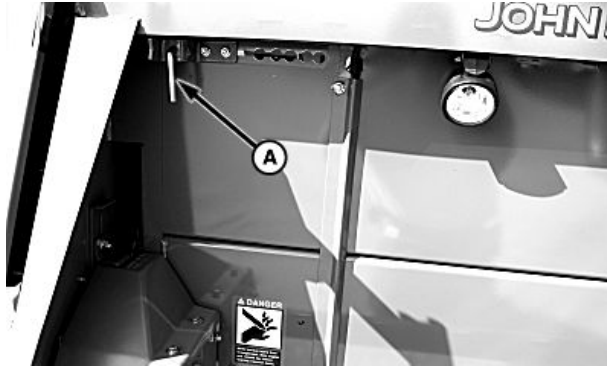
H114329—UN—05JUN15

Raising and Tilting Outer Gatherer Points and Shields

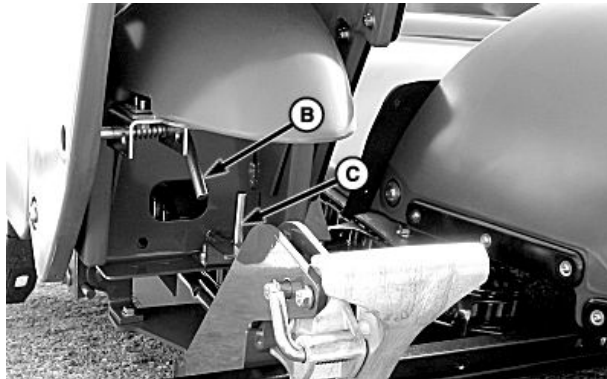
1. Release latch pin (A) and rotate to locked position.
2. Raise outer point until pin (B) locks in place.
3. Release pin (C) and rotate gatherer shield and point outward.

A—Locking Latch Pin
B—Latch Pin

C—Latch Pin



H88426—UN—24JUL07



H88427—UN—23JUL07

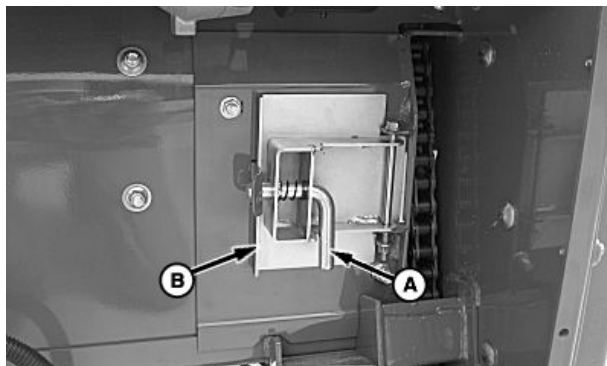
KR43067,000073B -19-19NOV10-1/1

Auger Floor Cleanout Door

CAUTION: Avoid serious injury.

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

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



View from Below Corn Head

A—Latch

B—Door

H99090—UN—17NOV10

KR43067,00005B2 -19-18NOV10-1/1

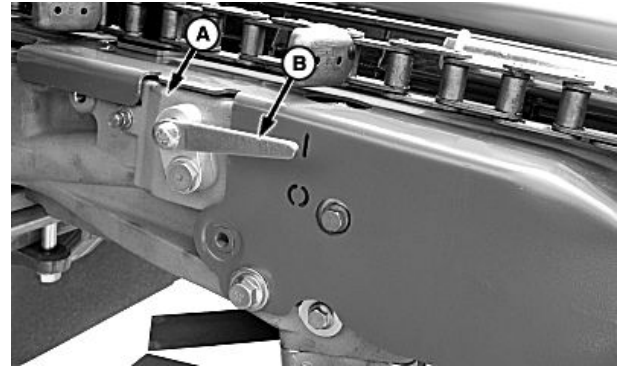
Engaging and Disengaging StalkMaster™ Chopping Knives

Corn heads equipped with the StalkMaster chopping option can disengage each chopping gear case individually. This allows the operator to use a chopping corn head as a non-chopping head when desired, or to limit the number of row units that are chopping when different amounts of residue are wanted.

1. Completely lower corn head to the ground *or* completely raise feeder house and engage feeder house safety stop.
2. Shut OFF engine, set parking brake, and remove key.

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

3. Raise gatherer point and shield (see RAISING AND REMOVING CENTER GATHERER SHIELDS AND POINTS in this section).
4. Engage/disengage lever is mounted on right-hand side of chopping gear case (A). Rotate lever (B)



A—StalkMaster™ Chopping Gear Case

B—Engage/Disengage Lever

upwards to engage chopping blades, and downwards to disengage.

5. Lower gatherer shield and point.
6. Repeat procedure for each row unit, or as necessary.

KR43067,00005AA -19-18MAY10-1/1

H96326—UN—16NOV10

Attachments and Options

Ear Savers

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

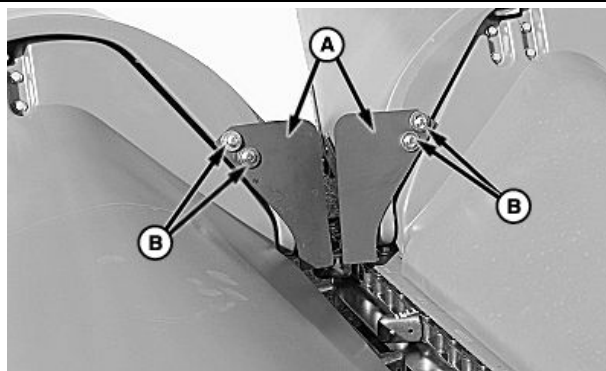
Replace ear savers as follows:

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

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

Specification

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



A—Ear Savers

B—Cap Screws

H89201—UN—12JUL07

KR43067,000055B -19-12MAY10-1/1

Stalk Rolls

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

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

(A) Opposed Knife Stalk Rolls—Optional

Recommended if:

- Need to cut and size corn stalks (10 - 16 in. length) at harvest.
- Need faster residue breakdown.
- Need earlier soil warm up and dry out.
- Need improved handling of residue by tillage and planting equipment, especially in high yielding corn.
- Need to reduce passes needed for shredding, cutting, or sizing stalks with other implements.
- Need a good performance in dry conditions.
- Harvesting in heavy grass, vines, and weeds.
- Need to lower power consumption on non-chopping corn heads.

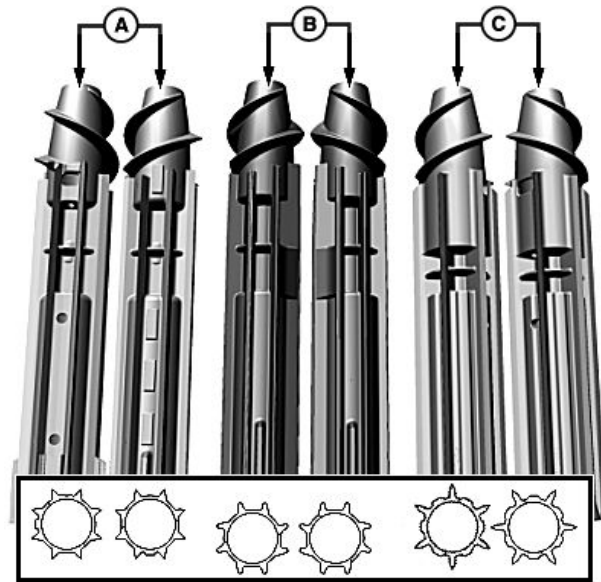
(B) Straight Fluted Stalk Rolls—Optional*

Recommended if:

- Need slow residue breakdown.
- Want maximum residue at planting time.
- Want to trap more snow/conserves moisture.
- Need better residue flow through narrow spaced drills when no-tilling.
- Need more complete shredding with a flail shredder.
- Need good performance in moderately dry, brittle conditions where stalks break off at or slightly below the ear.
- Need to lower power consumption by corn head.

(C) Intermeshing Knife Stalk Rolls—Optional*

Recommended if:



A—Opposed Knife Stalk Rolls C—Intermeshing Knife Stalk Rolls
B—Straight Fluted Stalk Rolls

- Need best material handling.
- Harvesting in damp, tough, and high moisture conditions.
- Need faster residue breakdown.
- Need earlier soil warm up and dry out.
- Need improved handling of residue by tillage and planting equipment, especially in high yielding corn.
- Need to reduce passes needed for shredding, cutting, or sizing stalks with other implements.

* — Not an option for 8R36/38C or 12R36/38

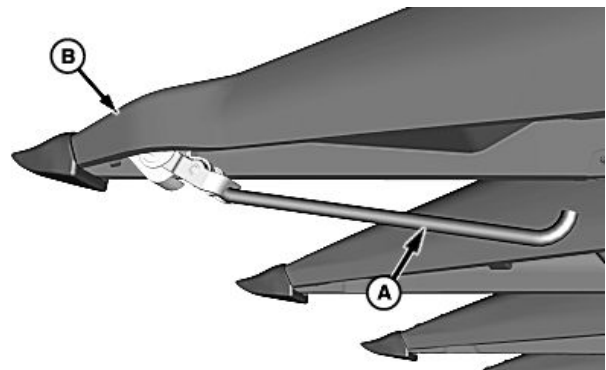
KR43067,000096A -19-08DEC11-1/1

Active Header Control Ground Sensors

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

A—Sensor Arm

B—Gatherer Point



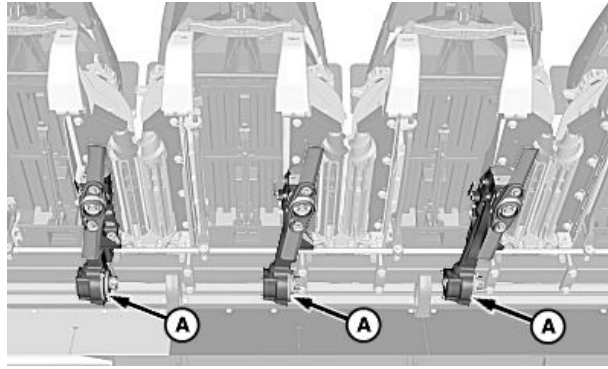
SS43267,00000CB -19-31MAY12-1/1

StalkMaster™ Chopping Gear Cases (Optional)

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

Factory installed cornstalk choppers are available on models 606C-SM, 608C-SM, 612C-SM, 616C-SM, and 618C-SM corn heads.

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



A—StalkMaster™ Chopping Gear Cases

H96323—UN—19MAY10

KR43067,00005A4 -19-19MAY10-1/1

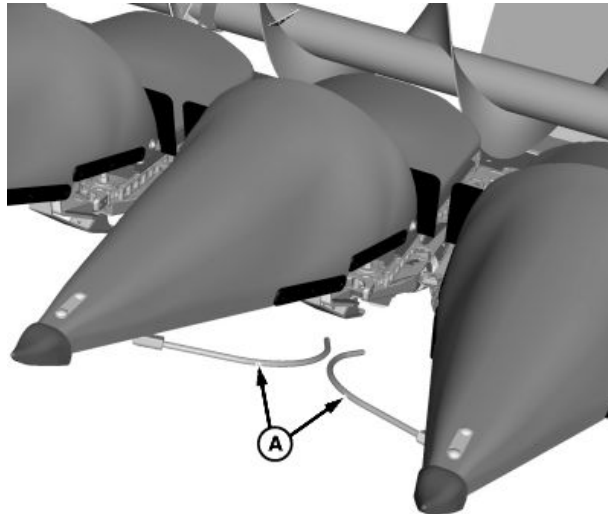
AutoTrac RowSense

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

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

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

A—Row Sensors



H95836—UN—25MAR10

SS43267,000014C -19-11OCT12-1/1

Stubble Lights

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

Stubble light direction can be adjusted for best visibility.



H91762—UN—20MAY08

KR43067,0000755 -19-01DEC10-1/1

Adjustments—Corn Head

Adjusting and Leveling Gatherer Points

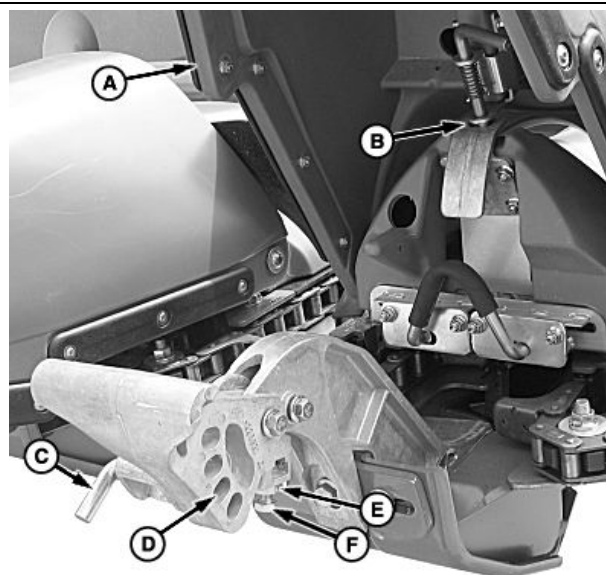
CAUTION: Raise corn head until points are off of the ground, shut OFF engine, set parking brake, and remove key.

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

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

A—Point
B—Pin
C—Locking Pin

D—Location Hole
E—Jam Nut
F—Cap Screw



H89083 —UN—17NOV10

KR43067,0000733 -19-18NOV10-1/1

Adjusting Trash Knives

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

1. Loosen cap screws (B).
2. Adjust rear of trash knife so clearance between fin and knife (C) is to specification.

Specification

Stalk Roll Fin to Trash

Knife—Maximum

Clearance..... 1.5 mm
(1/16 in.)

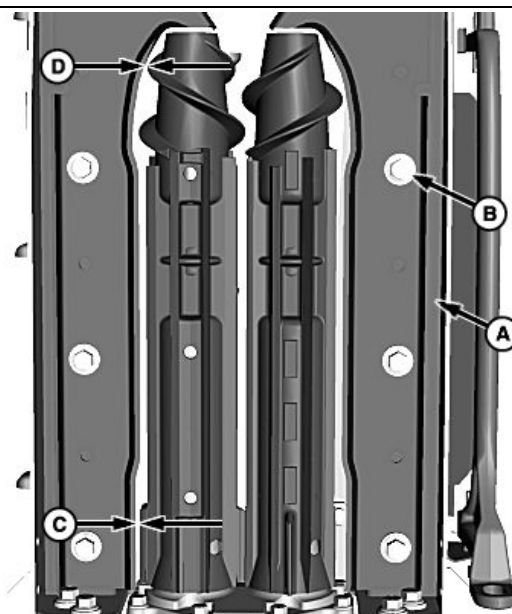
3. Adjust front of trash knife to provide clearance for stalk roll flighting (D).
4. Tighten cap screws to specification.

Specification

Trash Knife Mounting

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

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



A—Trash Knife
B—Cap Screws and Washers
(8 used)

C—Clearance, Stalk Roll Fin to
Trash Knife
D—Clearance, Stalk Roll Flight
to Trash Knife

H101481 —UN—17MAY11

KR43067,00008B5 -19-15JUN11-1/1

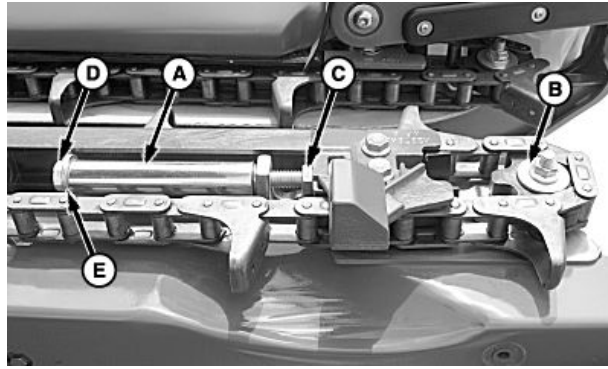
Adjusting Gatherer Chain Tension

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

A—Spacer Tube
B—Idler Sprocket
C—Nut

D—Cap Screw
E—Washer



H99091—UN—17NOV10

KR43067,0000734 -19-01DEC10-1/1

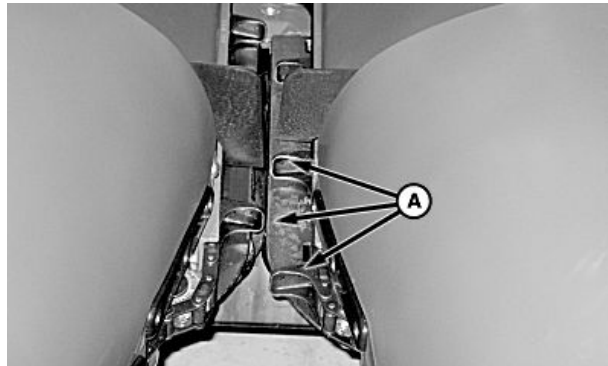
Adjusting Gatherer Chain Flights

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. Open points and shields as necessary.

A—Chain Flights



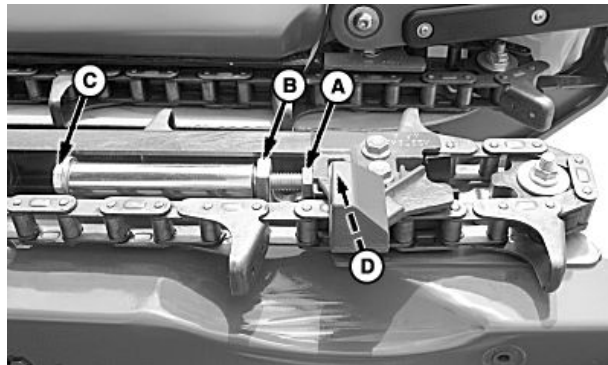
H88420—UN—01AUG07

KR43067,0000735 -19-01DEC10-1/3

2. Rotate nut (A) until it is against idler support strap (B).
3. Loosen cap screw (C) until nut (D) disengages.

A—Nut
B—Strap

C—Cap Screw
D—Nut



H99092—UN—17NOV10

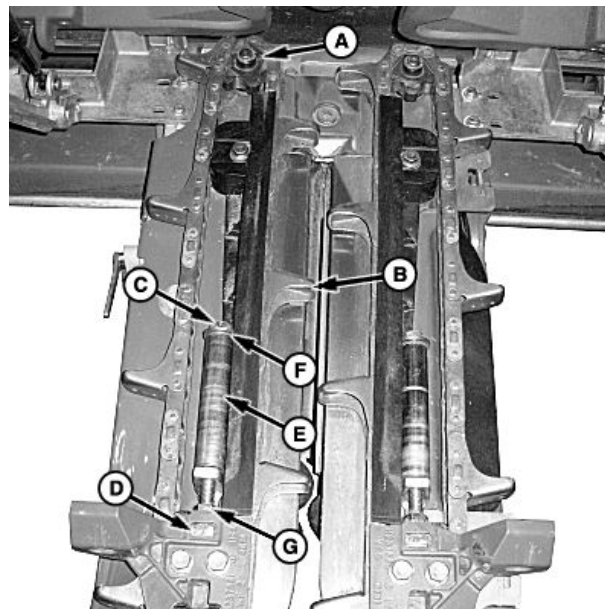
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KR43067,0000735 -19-01DEC10-2/3

4. Lift chain off drive sprocket (A) and rotate chain until flights (B) are uniformly spaced. Place chain back on sprocket.
5. Tighten cap screw (C) into nut (D) until a 4.8 mm (3/16 in.) maximum space is set between spacer tube (E) and washer (F).
6. Tighten nut (G) against idler assembly.

A—Drive Sprocket
B—Flights
C—Cap Screw
D—Nut

E—Spacer Tube
F—Washer
G—Nut



H99114 —UN—17NOV10

KR43067,0000735 -19-01DEC10-3/3

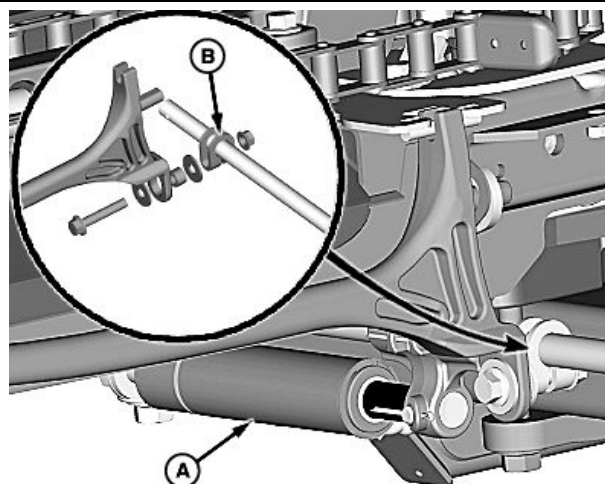
Adjusting Deck Plates

NOTE: Deck plates are set at factory.

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

A—Cylinder

B—Clamp



H90238 —UN—14JAN09

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DM84283,00006D3 -19-09JUL15-1/2

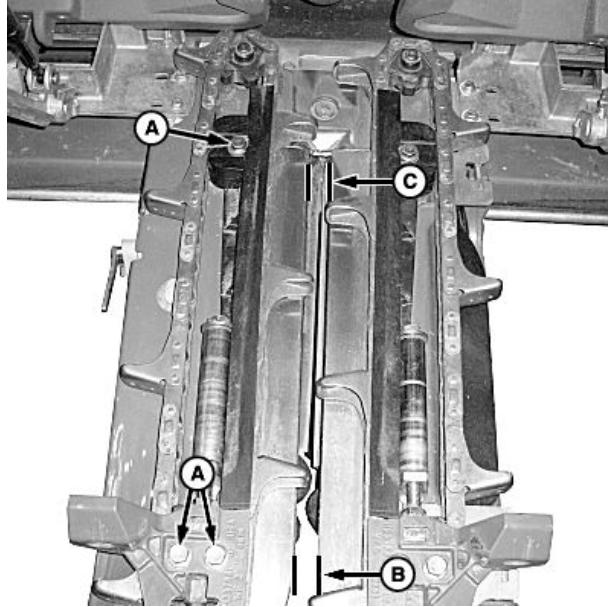
3. Loosen cap screws (A) allowing right-hand deck plate to slide.
4. Set front spacing (B) to 15 mm (23/32 in) and rear spacing (C) to 17 mm (25/32 in).
5. Tighten cap screws to specification.

Specification

Deck Plate Cap
Screws—Torque.....95 N·m
(70 lb·ft)

A—Cap Screws
B—Front Spacing

C—Rear Spacing



H99115 —UN—17NOV10

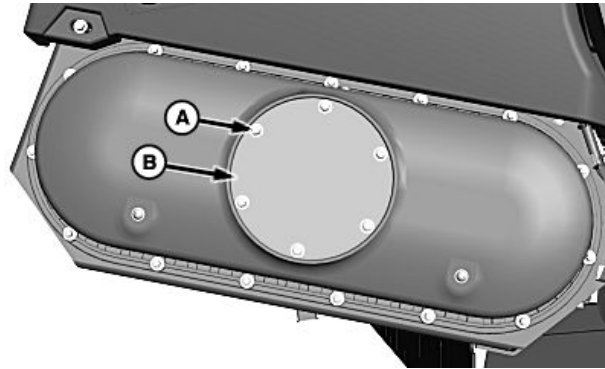
DM84283,00006D3 -19-09JUL15-2/2

Adjusting Row Unit Drive Chain

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

A—Cap Screws and Washers
(6 used)

B—Cover



H99229 —UN—30NOV10

Continued on next page

DM84283,00006F7 -19-21MAY15-1/2

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

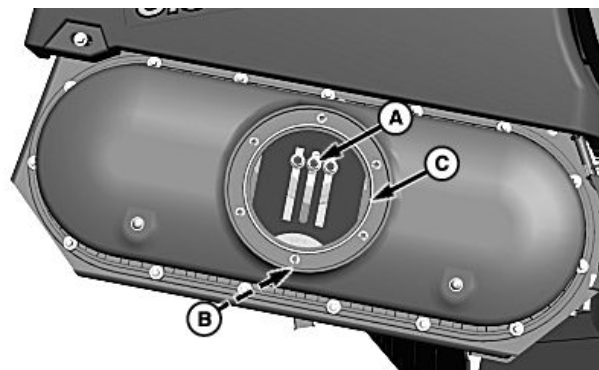
2. Loosen tensioner hardware (A).
3. Adjust tensioner downward to increase chain tension or upwards to decrease tension. Lower chain strand (B) should have movement of 10 mm (25/64 in.) up and 10 mm (25/64 in.) down. Tighten hardware to specifications.

Specification

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

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

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



A—Tensioner Hardware
B—Lower Drive Chain

C—Seal

Specification

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

DM84283,00006F7 -19-21MAY15-2/2

H99230—UN—30NOV10

Adjusting Row Unit Drive Sprockets With Fixed Speed Drive ONLY

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

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

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

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

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

COMBINES —

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

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

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

FORAGE HARVESTERS —

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

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

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

CORN HUSKERS —

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

KR43067,00009BF -19-09DEC11-1/1

Adjusting Auger Height

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

In most conditions, keep auger adjusted down. Raise auger to prevent ear damage in popcorn and food grade corn.

1. Open side shield to locate bearing carrier (A).
2. Loosen hardware (B) and adjust auger height up or down.
3. If auger needs to be raised higher than slotted holes (C) will allow:
 - a. Remove hardware from bearing carrier.
 - b. Move carrier from lower mounting holes (D) to upper mounting holes (E) and reinstall hardware.
4. Tighten carrier hardware and close side shields.

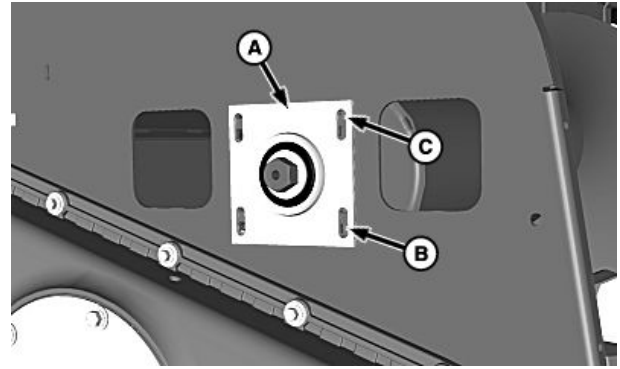
IMPORTANT: Verify both sides of auger are adjusted equally.

5. Repeat height adjustment on opposite side of corn head.

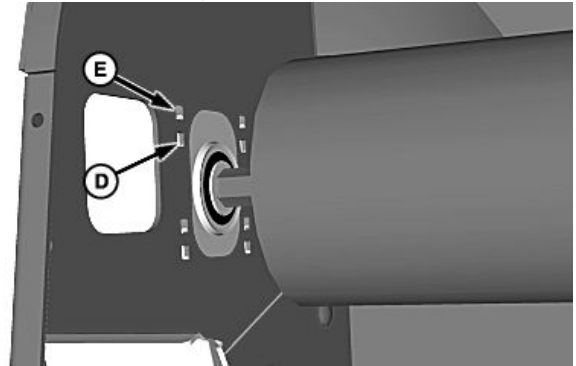
IMPORTANT: There must be 22 mm (7/8 in.) clearance between auger flighting and floor, and a 6 mm (1/4 in.) clearance between auger flighting and stripper.

Specification

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



Right-Hand Side Shown



A—Bearing Carrier
B—Hardware (Not Shown)
C—Slotted Hole

D—Lower Hole
E—Upper Hole

See ADJUSTING LOWER STRIPPER in this section.

Continued on next page

KR43067,00005A6 -19-19MAY10-1/2

H95837 —UN—25MAR10

H95838 —UN—25MAR10

6. 12, 16, and 18 Row Auger Height Adjustment:

- Loosen hardware (A).
- Adjust nut (C) to move auger up or down.

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.)

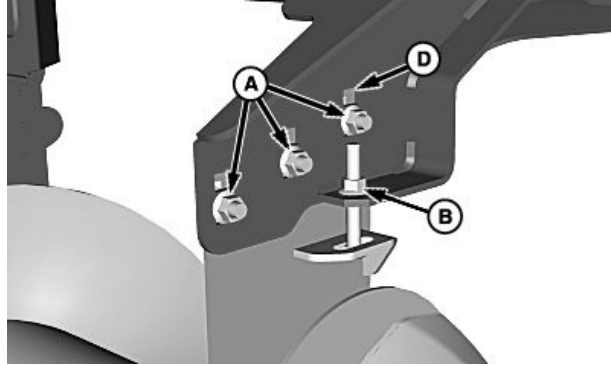
**See ADJUSTING LOWER STRIPPER
in this section.**

- If raising auger off of floor 76 mm (3 in.) for use in food corn, remove hardware (A).
- Raise auger until slots (C) are aligned with top holes (D) and reinstall hardware.
- Tighten to specification.

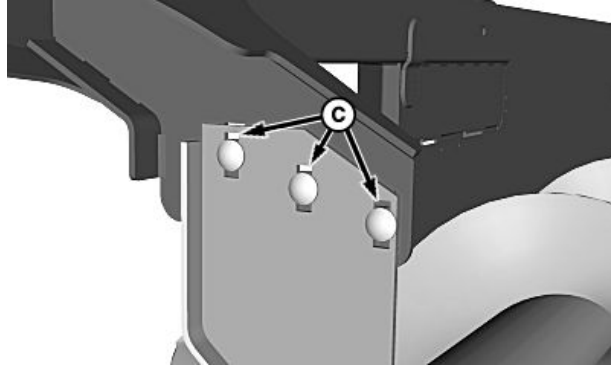
Specification

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

- Close side shields.



Auger Center Support Shown



A—Hardware
B—Nut

C—Adjustment Slots
D—Top Holes (3 used)

H96290—UN—12MAY10

H96291—UN—12MAY10

KR43067,00005A6 -19-19MAY10-2/2

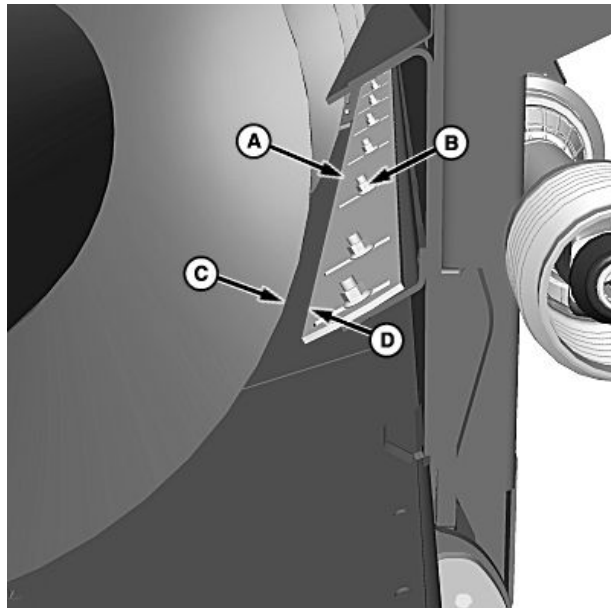
Adjusting Lower Stripper

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

Loosen hardware (B), adjust stripper for a 6 mm (1/4 in.) gap between auger flighting (C) and stripper edge (D), and tighten hardware.

A—Lower Stripper
B—Hardware

C—Auger Flighting
D—Stripper Edge

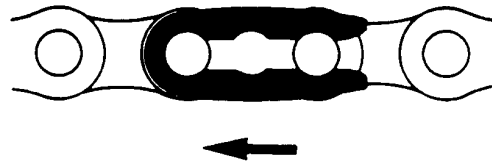


H96839—UN—25MAR10

KR43067,0000566 -19-25MAR10-1/1

Coupling the Chain

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



H41470

H41470 —UN—28NOV89

KR43067,0000738 -19-09JUL15-1/1

Adjusting Auger Drive Chain

1. Remove cap screws (A) and cover (B).
2. Loosen lock nuts (C).
3. Slide idler plate (D) down to increase chain tension and slide plate up to decrease tension.
4. Tighten lock nuts to specification.

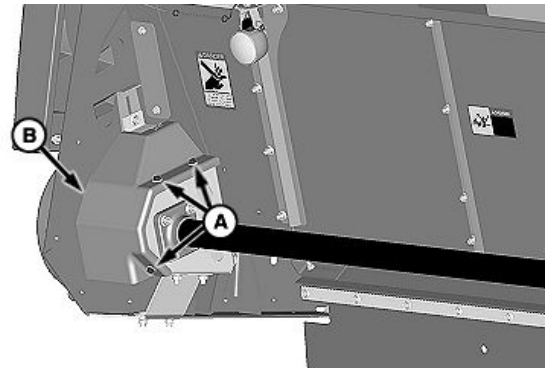
Specification

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

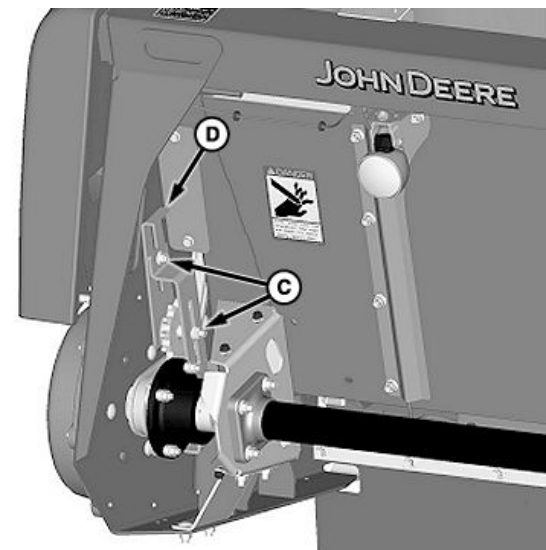
NOTE: Excess chain tension will cause undue chain wear.
Set chain tension so slack side movement is 10 mm (3/8 in.) up and 10 mm (3/8 in.) down.

A—Cap Screws
B—Cover

C—Lock Nuts
D—Idler Plate



H114322 —UN—05JUN15



H114323 —UN—05JUN15

DM84283,00006F8 -19-21MAY15-1/1

Lubrication

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)

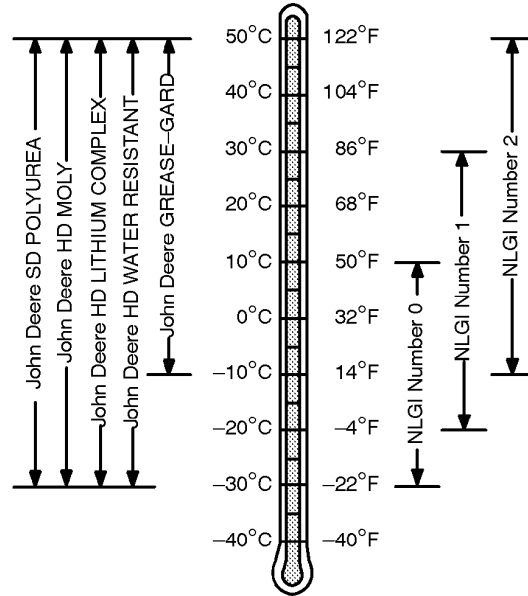
Other greases may be used if they meet the following:

- 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—30JUN89

AG,OUC1035,1175 -19-09JUL15-1/1

Lubricant Storage

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

Use clean containers to handle all lubricants.

Store lubricants and containers in an area protected from dust, moisture, and other contamination. Store containers on their side to avoid water and dirt accumulation.

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

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

DX,LUBST -19-11APR11-1/1

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 lubricants.

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

DX,ALTER -19-11APR11-1/1

Mixing of Lubricants

In general, avoid mixing different brands or types of oil. Oil manufacturers blend additives in their oils to meet certain specifications and performance requirements.

Mixing different oils can interfere with the proper functioning of these additives and degrade lubricant performance.

Consult your John Deere dealer to obtain specific information and recommendations.

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

Lubrication and Maintenance

Lubrication Interval Chart

Lubrication Interval Chart		
	200 Hours	1000 Hours
Inspect and Adjust Chains	•	
Replace Oil in Row Unit Drive Chain	•	
Lubricate Auger Drive Chain	•	
Check Row Unit Gear Case Oil	•	
Lubricate Row Unit Slip Clutch	•	
Lubricate Auger Drive Slip Clutch	•	
Check Chopping Gear Case Oil (if equipped)	•	
Lubricate Input Drive Shaft(s)	•	
Replace Oil in Row Unit Gear Case		•
Replace Oil in Chopping Gear Case (if equipped)		•

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

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

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

Always tighten plugs securely.

KR43067,000096B -19-24OCT11-1/1

Every 200 Hours of Operation

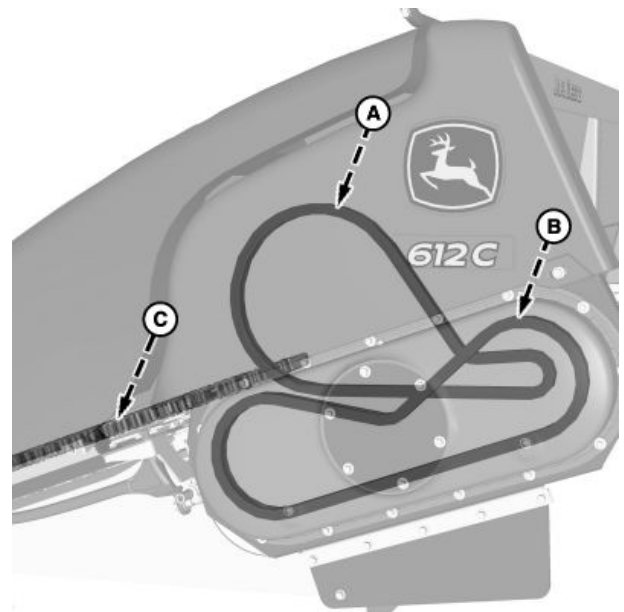
Inspect and Adjust Chains—Gatherer, Auger Drive, and Row Unit Drive

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

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

A—Auger Drive Chain
B—Row Unit Drive Chain

C—Gatherer Chain



H93818 —UN—14APR09

Continued on next page

DM84283,00006F9 -19-13JUL15-1/8

Replace Oil in Row Unit Drive Chain:

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

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

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

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

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

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

Specification

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

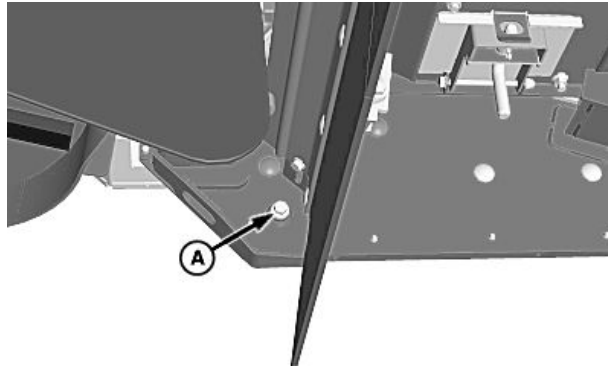
NOTE: Verify access door seal is clean and undamaged. Replace as necessary.

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

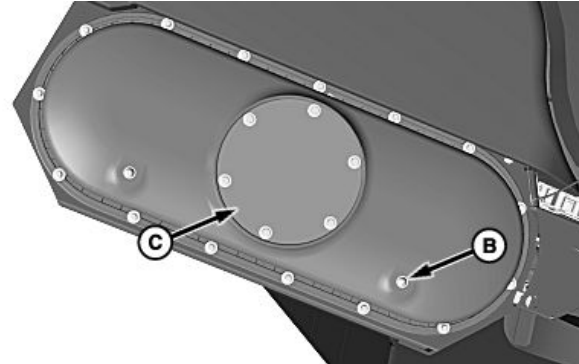
Specification

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

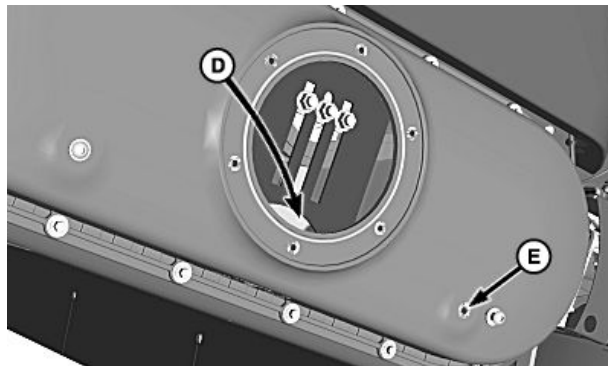
8. If corn head uses dual drive shafts, repeat on opposite side.



H99231—UN—30NOV10



H99232—UN—30NOV10



H99233—UN—30NOV10

A—Drain Plug
B—Check Plug
C—Cover

D—Fill Location
E—Plug Hole

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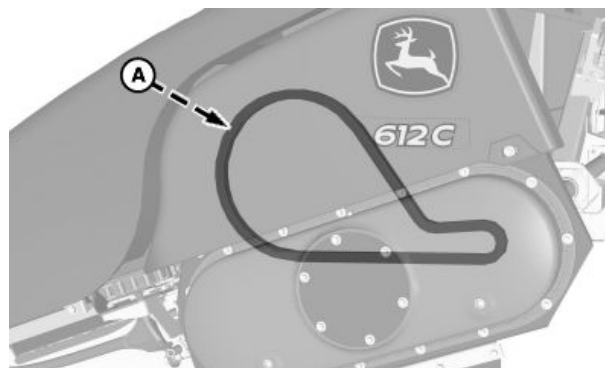
DM84283,00006F9 -19-13JUL15-2/8

Lubricate Auger Drive Chains:

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

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

A—Auger Drive Chain



H93817—UN—14APR09

DM84283,00006F9 -19-13JUL15-3/8

Check Row Unit Gear Case Oil:

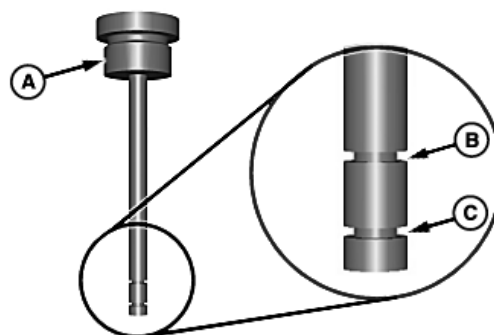
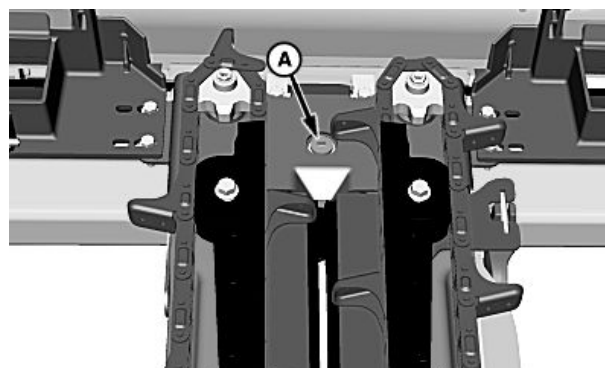
NOTE: Row unit gear case oil should be warm, with header raised, to obtain accurate readings on dipstick.

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

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

A—Inspection Plug/Dipstick
B—Full Mark

C—Minimum Mark



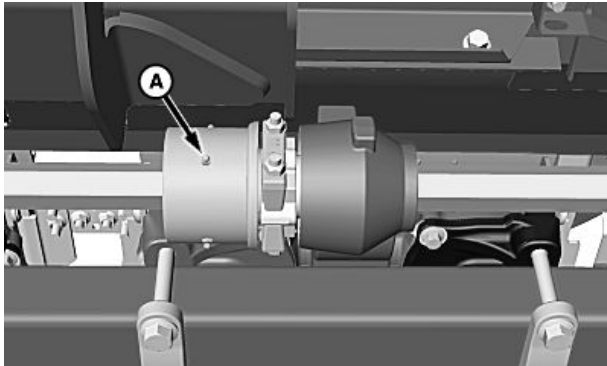
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H100565—UN—03MAR11

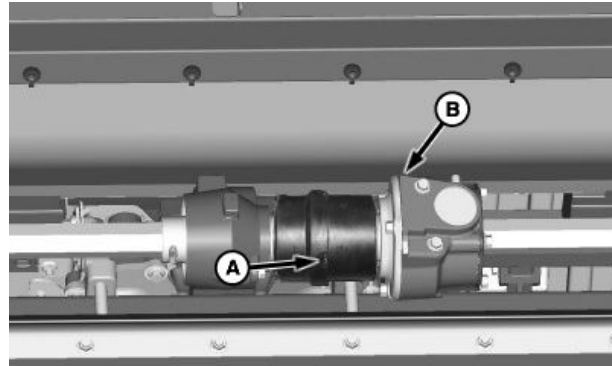
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DM84283,00006F9 -19-13JUL15-4/8

Lubricate Row Unit Slip Clutches:



H99158 —UN—22NOV10



H114327 —UN—05JUN15

Non-Chopping Model Shown

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

IMPORTANT: Each slip clutch has multiple grease fittings for ease of access. Only ONE fitting needs to be lubricated per clutch.

1. Completely raise corn head and engage feeder house safety stop.
2. *Non-Chopping Corn Head Only:*
 - a. Locate row unit slip clutch under header. Slip clutch is mounted on left side of gear case.
 - b. Apply 10 pumps of grease to one grease fitting (A) on slip clutch.

c. Repeat lubrication on remaining rows units.

3. *Chopping Corn Head Only:*

- a. Locate row unit slip clutch under header. Slip clutch is mounted between gear case and chopping gear case (B).
- b. Apply 10 pumps of grease to one grease fitting (A) on slip clutch.
- c. Repeat lubrication on remaining row units.

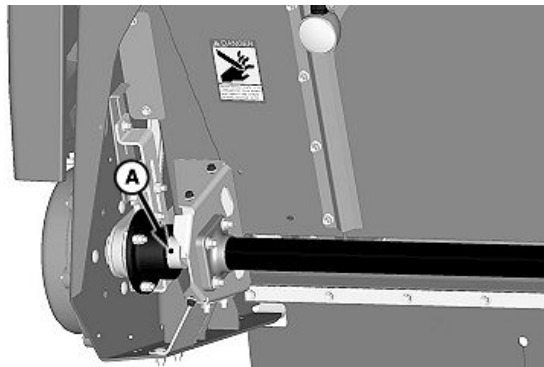
DM84283,00006F9 -19-13JUL15-5/8

Lubricate Auger Drive Slip Clutch:

IMPORTANT: Each slip clutch has multiple grease fittings for ease of access. Only ONE fitting needs to be lubricated per clutch.

1. Apply 10 pumps of grease to one grease fitting (A) on auger drive slip clutch.
2. If corn head uses dual drive shafts, repeat on opposite side.

A—Auger Drive Slip Clutch Grease Fitting



H114324 —UN—05JUN15

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DM84283,00006F9 -19-13JUL15-6/8

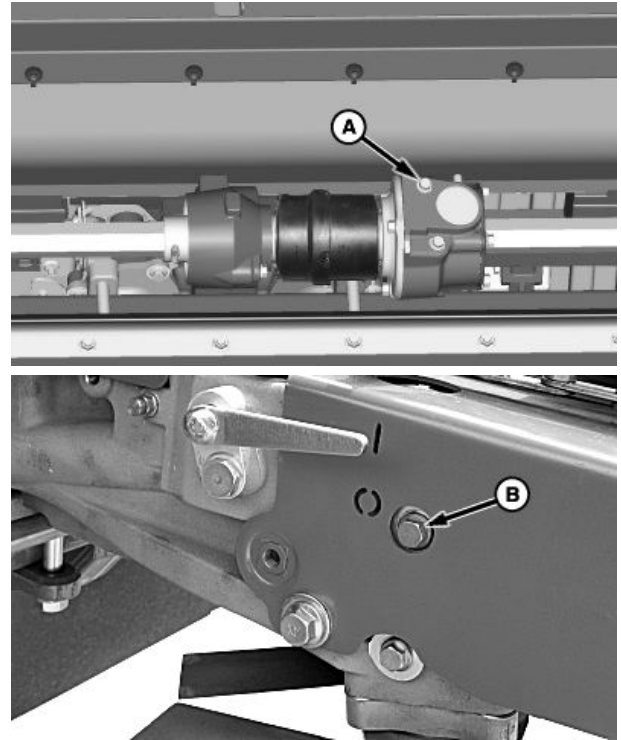
Check StalkMaster™ Gear Case Oil (if equipped):

NOTE: Chopping gear case oil should be warm, with header raised, to obtain accurate oil level.

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

A—Check/Fill Plug

B—Check/Fill Plug



Front Reservoir Shown

StalkMaster is a trademark of Deere & Company

DM84283.00006F9 -19-13JUL15-7/8

H114325 —UN—05JUN15

H99160 —UN—22NOV10

Lubricate Input Drive Shaft:

1. Rotate shield as necessary to access grease fitting.
2. Grease input drive shaft grease fitting (A).
3. If corn head uses dual drive shafts, repeat on opposite side.

A—Drive Shaft Grease Fitting



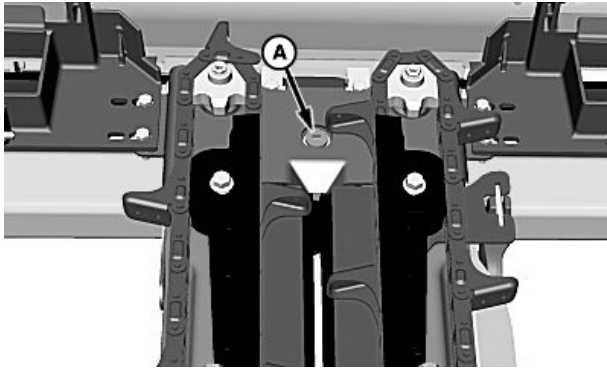
DM84283.00006F9 -19-13JUL15-8/8

H99098 —UN—17NOV10

Every 1000 Hours of Operation

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

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

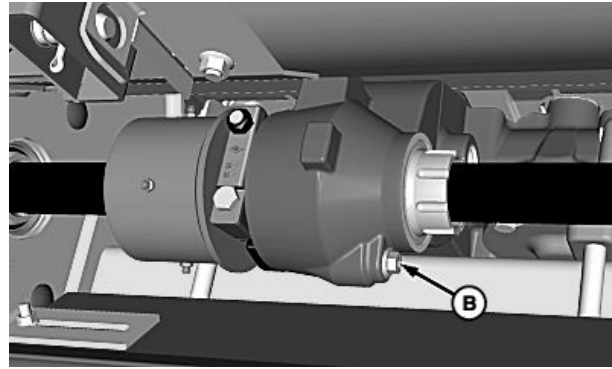


Viewed from Above Row Unit

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

Always tighten plugs securely.

Replace Oil in Row Unit Gear Case



Viewed from Below, Behind Row Unit

NOTE: Row unit gear cases should be warm, with header raised, to drain and fill oil.

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

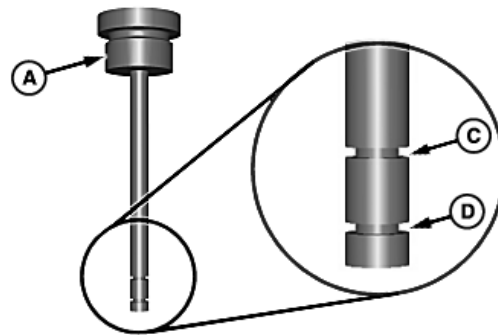
NOTE: Drain oil into clean container and dispose of properly.

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

Specification

Reservoir—Capacity..... 1100 mL
(37.2 oz.)

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



A—Inspection Plug/Dipstick
B—Drain Plug

C—Full Mark
D—Minimum Mark

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

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

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DM84283,00006FA -19-22MAY15-1/2

Replace Oil in Chopping Gear Case

NOTE: Chopping gear cases should be warm, with header raised, to drain and fill oil. Verify chopping blades are engaged with gear case lever, to warm front reservoir oil.

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

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

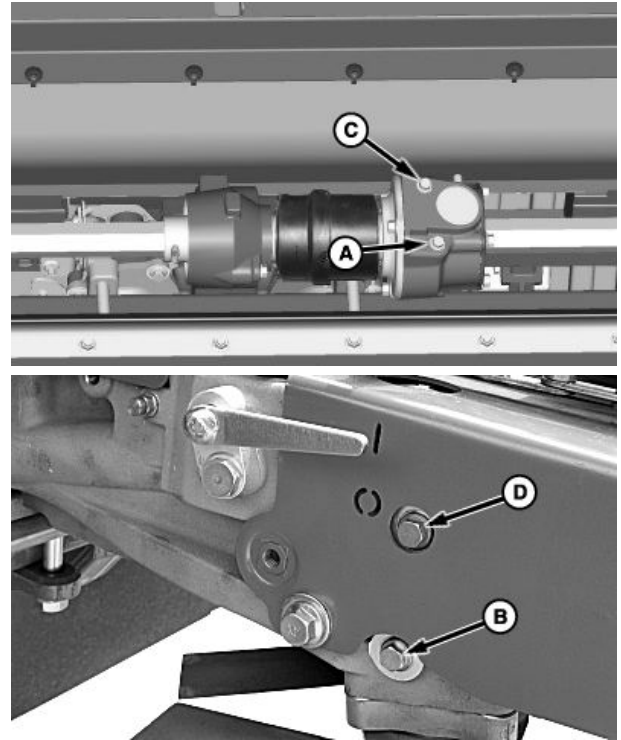
4. Remove front and rear drain plugs (A and B) and allow oil to drain.
5. Reinstall plugs.
6. Remove front and rear check/fill plugs (C and D).
7. Add TY6296 80W 90 GL-5 gear lube to front and rear reservoirs until level with bottom of check/fill plug holes.

Specification

Rear Reservoir—Capacity..... 350 mL
(11.8 oz.)

Front Reservoir—Capacity..... 630 mL
(21.3 oz.)

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



Front Reservoir Shown

A—Rear Drain Plug
B—Front Drain Plug

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

DM84283,00006FA -19-22MAY15-2/2

H114326 —UN—05JUN15

H99162 —UN—22NOV10

Troubleshooting

Corn Head

Most corn head operating problems can be traced to improper adjustment. The following troubleshooting chart may help when problems develop, by suggesting

a probable cause and a recommended solution. When trying to solve a problem, verify the source does not come from somewhere other than where the problem exists.

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

Continued on next page

KR43067,0000758 -19-01DEC10-1/2

Troubleshooting

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 sprockets for wear. Adjust gatherer chain tension.
	Not picking planter rows.	Follow rows to minimize ear loss.
	Ground speed too fast, causing material to overrun corn head.	Operate at a speed to meet yield and ground conditions. Faster speed causes plugging.
	Material not flowing with auger.	Check auger housing for obstructions and roughness. Check auger for 22 mm (7/8 in.) clearance between auger flight and floor. Check auger for 6 mm (1/4 in.) clearance between auger flighting and stripper.
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.

KR43067,0000758 -19-01DEC10-2/2

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

KR43067,0000759 -19-01DEC10-1/1

Service

Feeder House Safety Stop

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

Cracking of hydraulic line fittings to lower feeder house results in an instantaneous dropping of feeder house and header.

Manual Feeder House Fore/Aft Tilt

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

Shut OFF engine, set park brake and remove key.

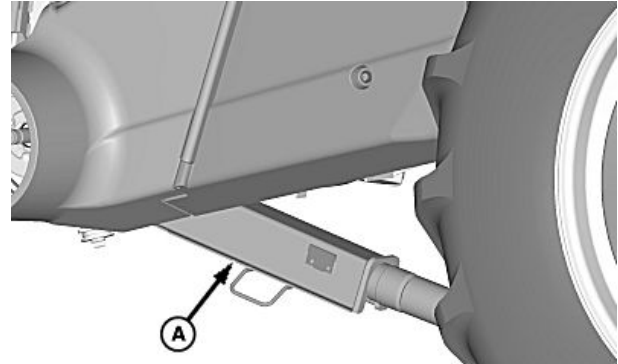
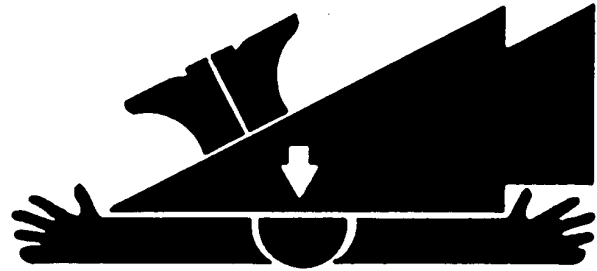
Hydraulic Feeder House Fore/Aft Tilt

Raise feeder house completely and tilt hydraulic feeder house fore/aft tilt frame fully forward and lower safety stop (A) onto hydraulic cylinder rod.

Shut OFF engine, set park brake and remove key.

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

When header is disengaged, feeder house fore/aft tilt automatically moves forward upon raising. Feeder house fore/aft tilt will not return to last known position when lowering.



A—Safety Stop

OUC6435,0002C87 -19-12FEB15-1/1

TS696 —UN—21SEP89

H90891 —UN—26FEB08

Remove and Install Stalk Rolls

CAUTION: Completely raise corn head and engage feeder house safety stop before performing any work.

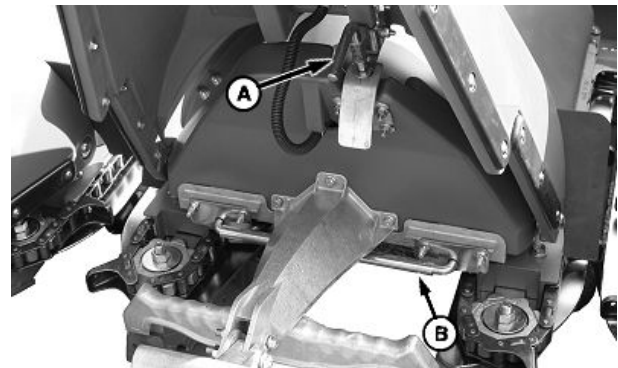
1. Raise gatherer point until pin (A) latches into place.

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

2. Pull latch bar (B) and lift gatherer shield.
3. Repeat as necessary for access to row units.

A—Pin

B—Latch Bar



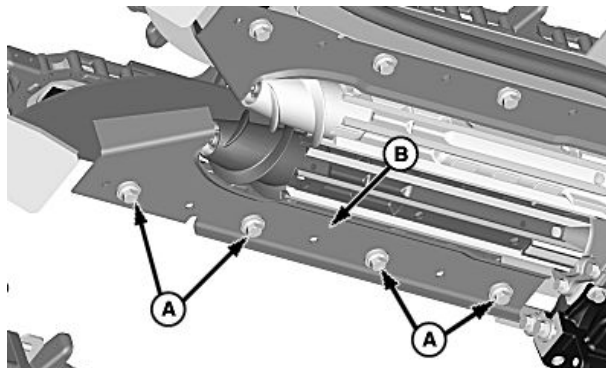
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SS43267,00000C7 -19-25MAY12-1/7

H89314 —UN—20JUL07

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

A—Cap Screws and Washers (8 used) B—Trash Knife (2 used)



H94250—UN—10JUN09

SS43267,00000C7 -19-25MAY12-2/7

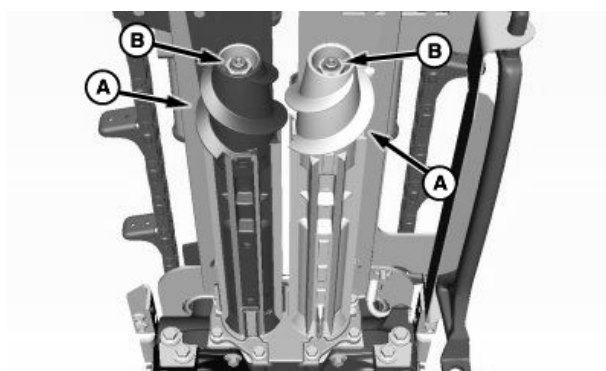
NOTE: Use a 13 mm (1/2 in.) steel plate (C) between rear of stalk rolls to prevent stalk rolls from rotating.

When removing left-hand retaining nut, insert plate from top.

When removing right-hand retaining nut, insert plate from bottom.

5. Remove and discard retaining nuts (B).
6. Remove and retain spherical washer behind nut. Inspect washer for corrosion or damage. Replace if necessary.

A—Stalk Rolls C—Steel Plate
B—Retaining Nut and Spherical Washer



H93698—UN—19MAR09



H100222—UN—14FEB11

Removing Left-Hand Retaining Nut Shown

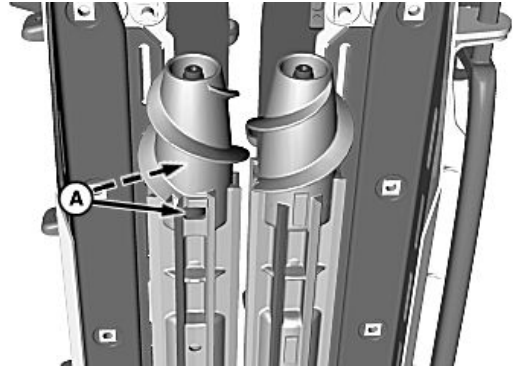
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SS43267,00000C7 -19-25MAY12-3/7

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

7. Locate two ports (A) behind spiral of stalk roll. Remove stalk roll from shaft by attaching a (2 arm) gear puller to ports.
8. Remove all dirt and corrosion from shaft taper, splines, and threads. Inspect stalk rolls for wear or damage. Replace as necessary.

A—Stalk Roll Removal Ports



H100588 —UN—03MAR11

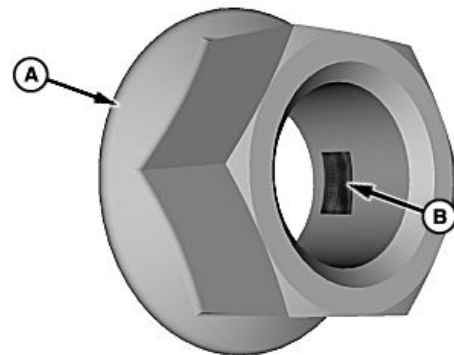
SS43267,00000C7 -19-25MAY12-4/7

IMPORTANT: A new nut must be purchased from John Deere Service Parts.

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

A—Retaining Nut

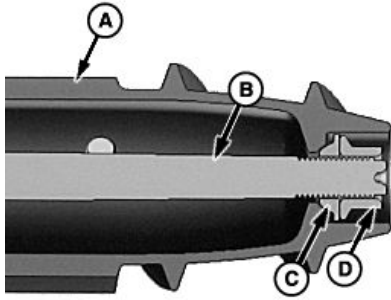
B—Thread Locking Patch



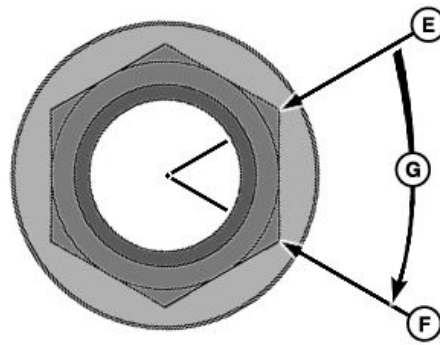
H97520 —UN—04AUG10

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SS43267,00000C7 -19-25MAY12-5/7



H97519 —UN—04AUG10



H101114 —UN—18APR11

Cross Section of Stalk Roll Shown

10. Using alignment marks made on face of stalk roll and shaft, simultaneously install both stalk rolls (A) on shafts (B).

IMPORTANT: Flat side of washer **MUST** face away from stalk roll.

11. Install previously removed spherical washer (C) and new retaining nut (D).

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

NOTE: Use a 13 mm (1/2 in.) steel plate between rear of stalk rolls to prevent stalk rolls from rotating.

12. Tighten retaining nut to specification.

Specification

Stalk Roll Retaining

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

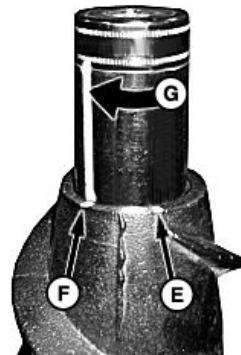
- Use calibrated torque wrench to tighten nut to specification.
- Mark stalk roll at one corner of retaining nut (E).
- Mark stalk roll at next corner of nut (F), going clockwise.
- Position socket on retaining nut and extend first mark (E) onto wall of socket
- Tighten nut (G) until mark on socket reaches second mark on stalk roll (F).
- Repeat on remaining stalk roll.

A—Stalk Roll
B—Shaft
C—Spherical Washer
D—Retaining Nut

E—Mark at Corner of Hex Nut
F—Mark at Next Corner of Hex Nut (clockwise)
G—60° Turn



H101374 —UN—05MAY11



H101375 —UN—05MAY11

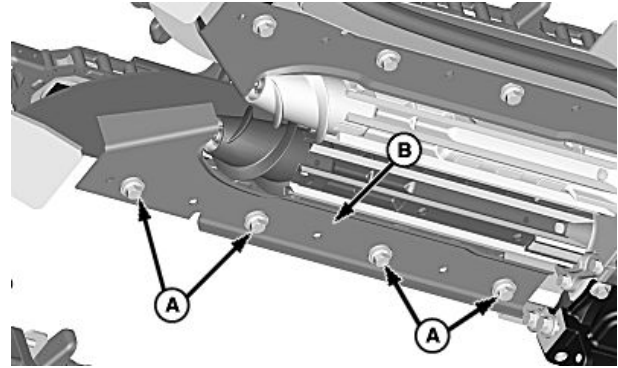
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SS43267,00000C7 -19-25MAY12-6/7

13. Install trash knives (B) using cap screws and washers (A).

14. Adjust trash knives (see ADJUSTING TRASH KNIVES in ADJUSTMENTS section).

A—Cap Screws and Washers (8 used) B—Trash Knife (2 used)



SS43267,00000C7 -19-25MAY12-7/7

H94250—UN—10JUN09

Reversing Gatherer Chains and Sprockets for Additional Wear

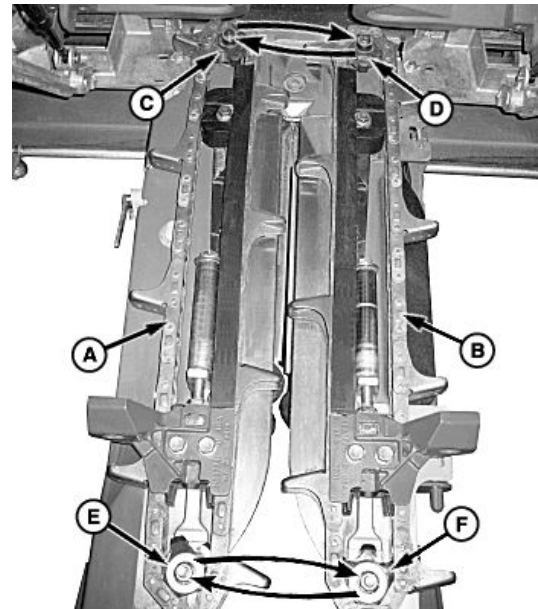
The gatherer chains and sprockets can be reversed for additional wear. This should be done to all row units at the same time.

1. To reverse gatherer chains and sprockets:

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

- a. Remove gatherer chains (A and B) — (see REMOVE AND INSTALL GATHERER CHAIN in this section).
- b. Remove drive sprockets (C and D).
- c. Install drive sprockets on opposite shaft than removed from.
- d. Remove sprockets (E and F).
- e. Install sprockets on opposite shaft than removed from.
- f. Flip each gatherer chain over and install on opposite side than removed from.

2. Repeat on remaining row units.



A—Gatherer Chain
B—Gatherer Chain
C—Drive Sprocket

D—Drive Sprocket
E—Sprocket
F—Sprocket

KR43067,0000739 -19-18NOV10-1/1

H99116—UN—17NOV10

Remove and Install Gatherer Chain

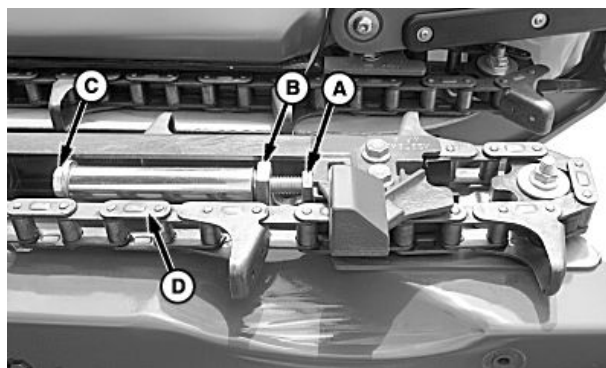
⚠ CAUTION: Completely raise corn head, shut OFF engine, set parking brake, remove key, and lower feeder house safety stop before working under header.

If the range of adjustment of the gathering chain tensioner has been reached or the chain fails, replace with a new chain. Also, replace the drive sprocket and idler sprocket assembly to not lessen the life of the replacement chain.

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

⚠ CAUTION: Never service components of the chain drive assembly until nut (A) is 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.
2. Loosen cap screw (C), if necessary, to release remaining tension on chain.
3. Remove gatherer chain (D).
4. Install gatherer chain in reverse order.



A—Nut
B—Leg of Strap

C—Cap Screw
D—Gatherer Chain

H99117—UN—17NOV10

SS43267,000068D -19-24JUL15-1/1

Remove and Install Oil Pan

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

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

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

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

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

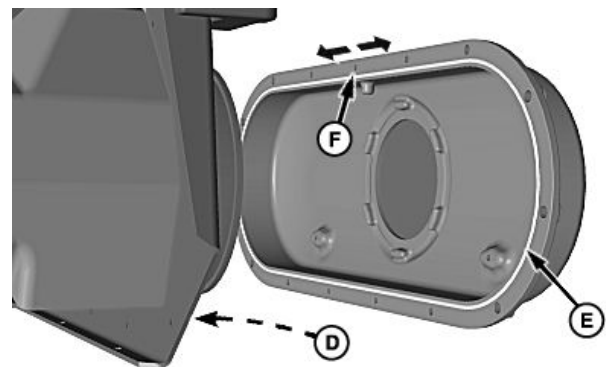
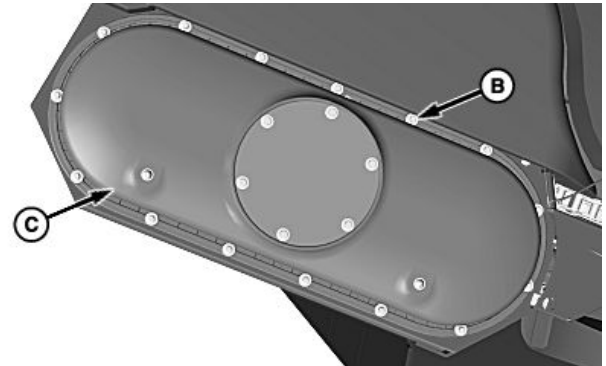
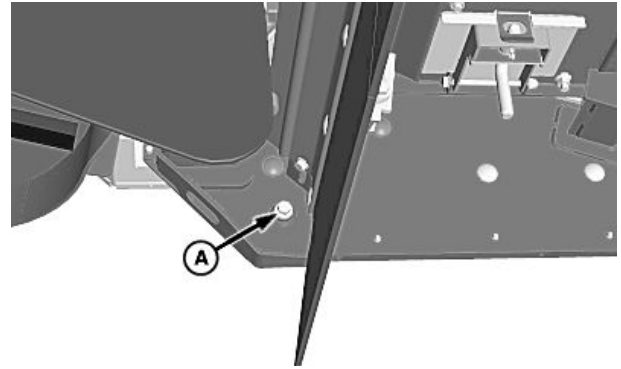
NOTE: When mounting oil pan, start installing hardware at center (F) and move outward.

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

Specification

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

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



Continued on next page

DM84283,00006FB -19-22MAY15-1/2

H99231—UN—30NOV10

H99234—UN—30NOV10

H99235—UN—30NOV10

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

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

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

Specification

Oil Pan—Capacity..... 0.9 L
(1 qt.)

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

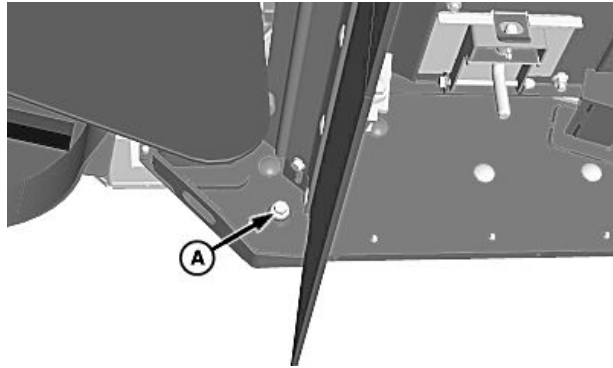
11. Install row unit drive chain cover and check plug. Tighten cover cap screws to specification.

Specification

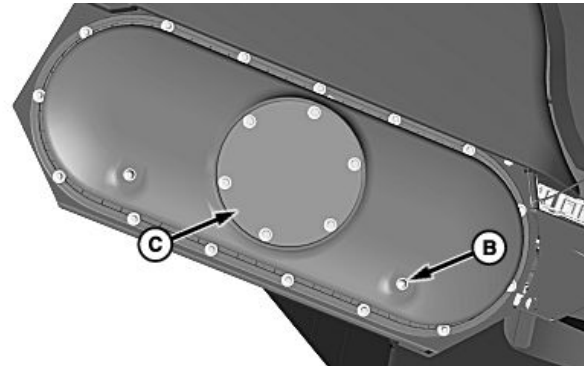
Row Unit Drive Chain
Cover—Torque..... 17 N·m
(150 lb.-in.)

A—Drain Plug
B—Check Plug
C—Access Door

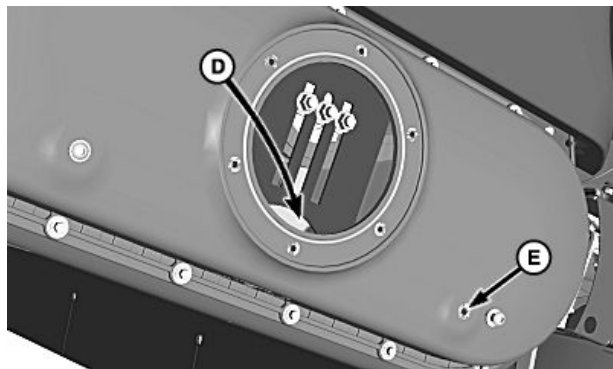
D—Fill Location
E—Drain Plug Hole



H99231—UN—30NOV10



H99232—UN—30NOV10



H99233—UN—30NOV10

DM84283,00006FB -19-22MAY15-2/2

Remove and Install Wear Strips

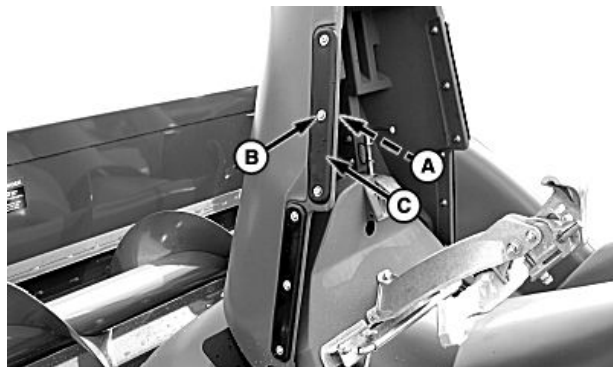
1. Remove nut and washer (A).
2. Remove bolt and washer (B).
3. Remove wear strip (C).
4. Install new wear strip in reverse order.

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

KR43067,000026C -19-24APR09-1/1

Remove and Install StalkMaster™ Chopping Knife Blades

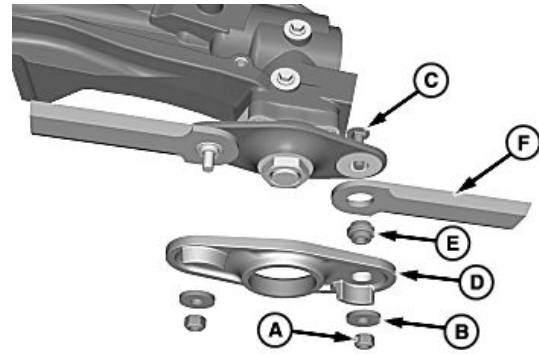
CAUTION: Knives have two cutting edges and can cause serious injury. Wear gloves when handling knives.

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

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

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

1. Remove lock nuts (A), washers (B), cap screws (C), lower mounting plate (D), bushings (E), and chopping blades (F).
2. Flip or replace blades.
3. Inspect all hardware and bushings for excessive wear or damage and replace as necessary. Lock nuts can



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

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

4. Install components in reverse order of removal. Tighten to specification.

Specification

Chopping Blade Cap

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

KR43067,00005B1 -19-19MAY10-1/1

H96454—UN—19MAY10

Stubble Light Bulb Replacement

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

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

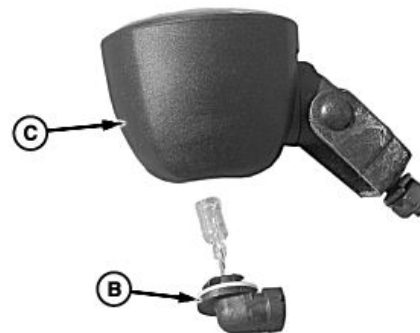
3. Rotate bulb base (B) to release it from housing (C).

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

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

A—Stubble Light
B—Bulb Base

C—Housing



KR43067,0000562 -19-20JUL15-1/1

H95830—UN—25MAR10

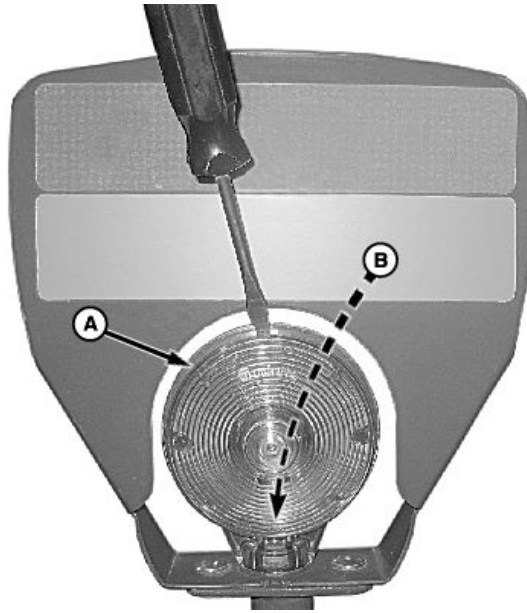
H94014—UN—13MAY09

Header Warning Light Bulb Replacement

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

A—Lens

B—Bulb



H93046 —UN—31OCT08

KR43067,000038D -19-11MAY09-1/1

Storage

End of Season Service

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

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

3. Clean the corn head thoroughly. Chaff and dirt will draw moisture and cause rust.
4. Check fluid levels on all gear cases and chain drives.
5. Lubricate corn head as outlined in Lubrication and Maintenance section of this manual. Grease the threads on adjusting bolts.
6. Paint all parts where paint is worn or chipped.
7. Use a polymer protectorate on gatherer points, deck covers, and end fenders.

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8. Close all shields.
9. If possible, shelter the corn head in a dry place.
10. Order repair parts needed for next season.

StalkMaster™ Corn Heads Only:

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

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

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

SS43267,0000319 -19-18NOV13-1/1

Beginning of Season Service

1. Open end fenders, gatherer points, and deck covers (see OPERATING CORN HEAD section for procedures).

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

2. Wash any dirt or debris off machine that accumulated during storage.
3. Adjust row unit, auger drive, and gatherer chains to proper tension (see ADJUSTMENTS—CORN HEAD section of this manual).
4. Check fluid levels on all gearboxes and chain drives.

5. Lubricate corn head as outlined in LUBRICATION AND MAINTENANCE section of this manual. Grease the threads on adjusting bolts.
6. Verify all hardware is tightened to specification and all cotter pins are spread.
7. Close shields, fenders, and points.
8. Run corn head at half-speed for a few minutes. Check for overheating bearings, gearbox leaks, or loose chains.
9. Calibrate corn head to machine (see CALIBRATION AND PROGRAMMING section of this manual).
10. Review your Operators Manual.

KR43067,0000564 -19-25MAR10-1/1

Specifications

Specifications

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

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

Approximate Overall Width		
Model	Header ID	Width m (ft. - in.)
606C and 606C-SM	6R70	4.6 m (15 ft. - 1 in.)
606C and 606C-SM	6R75	4.6 m (15 ft. - 1 in.)
606C and 606C-SM	6R30	4.8 m (15 ft. - 9 in.)
606C	6R36/38	5.8 m (19 ft.)
608C and 608C-SM	8R70	6.1 m (20 ft. - 2 in.)
608C and 608C-SM	8R75	6.1 m (20 ft. - 2 in.)
608C and 608C-SM	8R30	6.4 m (20 ft. - 10 in.)
608C and 608C-SM	8R36/38	7.8 m (25 ft. - 8 in.)
612C-SM	12R70	9.2 m (30 ft. - 2 in.)
612C-SM	12R75	9.2 m (30 ft. - 2 in.)
612C	12R36	11.2 m (36 ft. - 10 in.)
612C	12R38	11.8 m (38 ft. - 10 in.)
612C and 612C-SM	12R20	6.6 m (21 ft. - 8 in.)
612C and 612C-SM	12R22	7.2 m (23 ft. - 6 in.)
612C and 612C-SM	12R30	9.4 m (30 ft. - 10 in.)
616C and 616C-SM	16R30	12.3 m (40 ft. - 4 in.)
618C and 618C-SM	18R20	9.5 m (31 ft. - 2 in.)
618C and 618C-SM	18R22	9.5 m (31 ft. - 2 in.)
Approximate Overall Depth (All Models)		
Points in Operating Position (lowered)		3.0 m (10 ft.)
Points in Service Position (raised)		2.4 m (8 ft.)

Approximate Field Weight of Corn Head:		
Model	Header ID	Weight kg (lb.)
Non-Chopping Corn Head:		
606C	6R70	1836 kg (4048 lb.)
606C	6R75	1837 kg (4051 lb.)
606C	6R30	1837 kg (4051 lb.)
606C	6R36	1978 kg (4361 lb.)

Continued on next page

KR43067,00009BE -19-08DEC11-1/2

Specifications

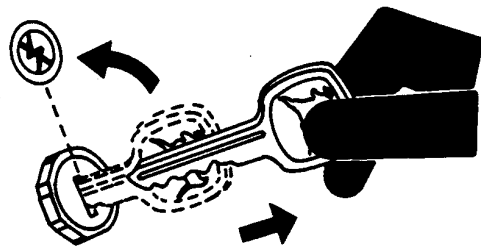
Approximate Field Weight of Corn Head:		
Model	Header ID	Weight kg (lb.)
606C	6R38	1985 kg (4377 lb.)
608C	8R70	2348 kg (5177 lb.)
608C	8R75	2450 kg (5402 lb.)
608C	8R30	2347 kg (5175 lb.)
608C	8R36	2628 kg (5795 lb.)
608C	8R38	2635 kg (5810 lb.)
612C	12R20	2973 kg (6555 lb.)
612C	12R22	3033 kg (6688 lb.)
612C	12R30	3423 kg (7548 lb.)
612C	12R36	4333 kg (9552 lb.)
612C	12R38	4433 kg (9774 lb.)
616C	16R30	4489 kg (9898 lb.)
618C	18R20	4361 kg (9616 lb.)
618C	18R22	4458 kg (9830 lb.)
Chopping Corn Head - StalkMaster™		
606C-SM	6R70	2069 kg (4562 lb.)
606C-SM	6R75	2068 kg (4560 lb.)
606C-SM	6R30	2063 kg (4549 lb.)
608C-SM	8R70	2691 kg (5934 lb.)
608C-SM	8R75	2684 kg (5918 lb.)
608C-SM	8R30	2693 kg (5938 lb.)
608C-SM	8R36	3384 kg (7460 lb.)
608C-SM	8R38	3429 kg (7560 lb.)
612C-SM	12R70	3817 kg (8416 lb.)
612C-SM	12R75	3849 kg (8487 lb.)
612C-SM	12R20	3405 kg (7508 lb.)
612C-SM	12R22	3470 kg (7651 lb.)
612C-SM	12R30	3880 kg (8555 lb.)
616C-SM	16R30	4998 kg (11021 lb.)
618C-SM	18R20	4920 kg (10849 lb.)
618C-SM	18R22	5020 kg (11069 lb.)

NOTE: Specifications and design subject to change without notice.

KR43067,00009BE -19-08DEC11-2/2

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—24MAY 89

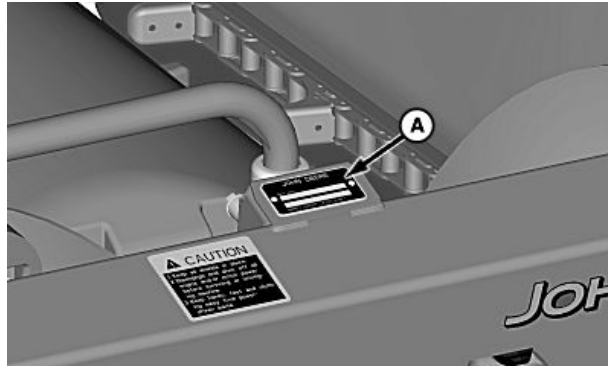
DX,SECURE2 -19-18NOV03-1/1

Header Identification Number

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

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

A—Header Identification Plate

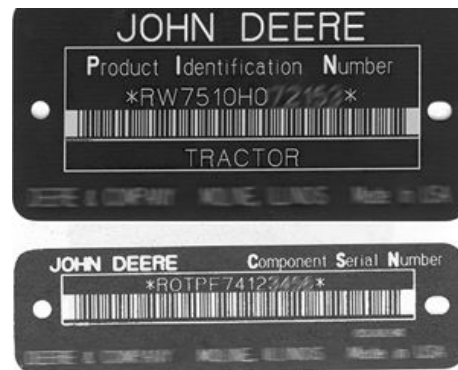


H96466—UN—19MAY10

SS43267,0000119 -19-13SEP12-1/1

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

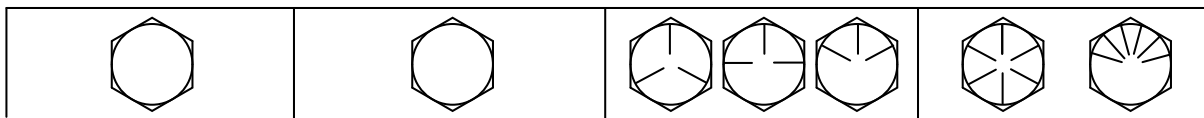


TS1680—UN—09DEC03

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

Unified Inch Bolt and Screw Torque Values

TS1671 —UN—01MAY03



Bolt or Screw Size	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	
	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.

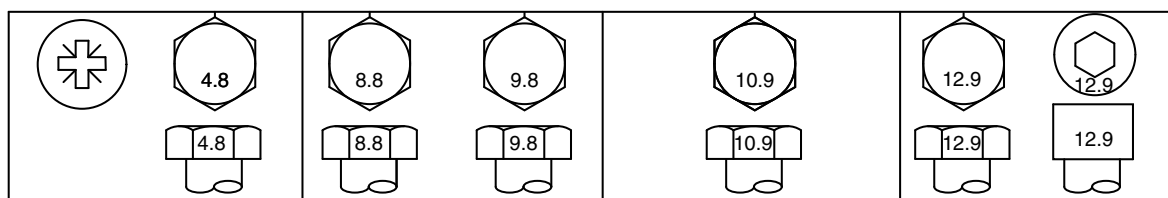
^b"Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C, F13F or F13J zinc flake coating.

^c"Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B, F13E or F13H zinc flake coating.

DX,TORQ1 -19-12JAN11-1/1

Metric Bolt and Screw Torque Values

TS1670 —UN—01MAY03



Bolt or Screw Size	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	
	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, F13F or F13J zinc flake coating.

^b“Dry” means plain or zinc plated without any lubrication, or M6 to M18 fasteners with JDM F13B, F13E or F13H zinc flake coating.

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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—15APR13

CUSTOMER SATISFACTION PROBLEM RESOLUTION PROCESS

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

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

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

2. Discuss problem with dealer service manager.

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

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

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