



600C Series Corn Headers



JOHN DEERE

OPERATOR'S MANUAL

600C Series Corn Headers

OMHXE181850 ISSUE D4 (ENGLISH)



John Deere Horizontina
South American Edition
PRINTED IN U.S.A.



Introduction

Foreword

THANK YOU for purchasing a John Deere product.

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 machine or implement will travel when going forward.

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

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,IFC5-19-03APR09

Company Info



JOHN DEERE

CQ291459—UN—23JAN12

John Deere Brasil Ltda.

Av. Eng. Jorge A. D. Logeman, 600
Cep: 98920-000 - Horizontina-RS - Brazil
CNPJ: 89.674.782/0001-58

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a48umh1,1711023880031-19-21MAR24

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

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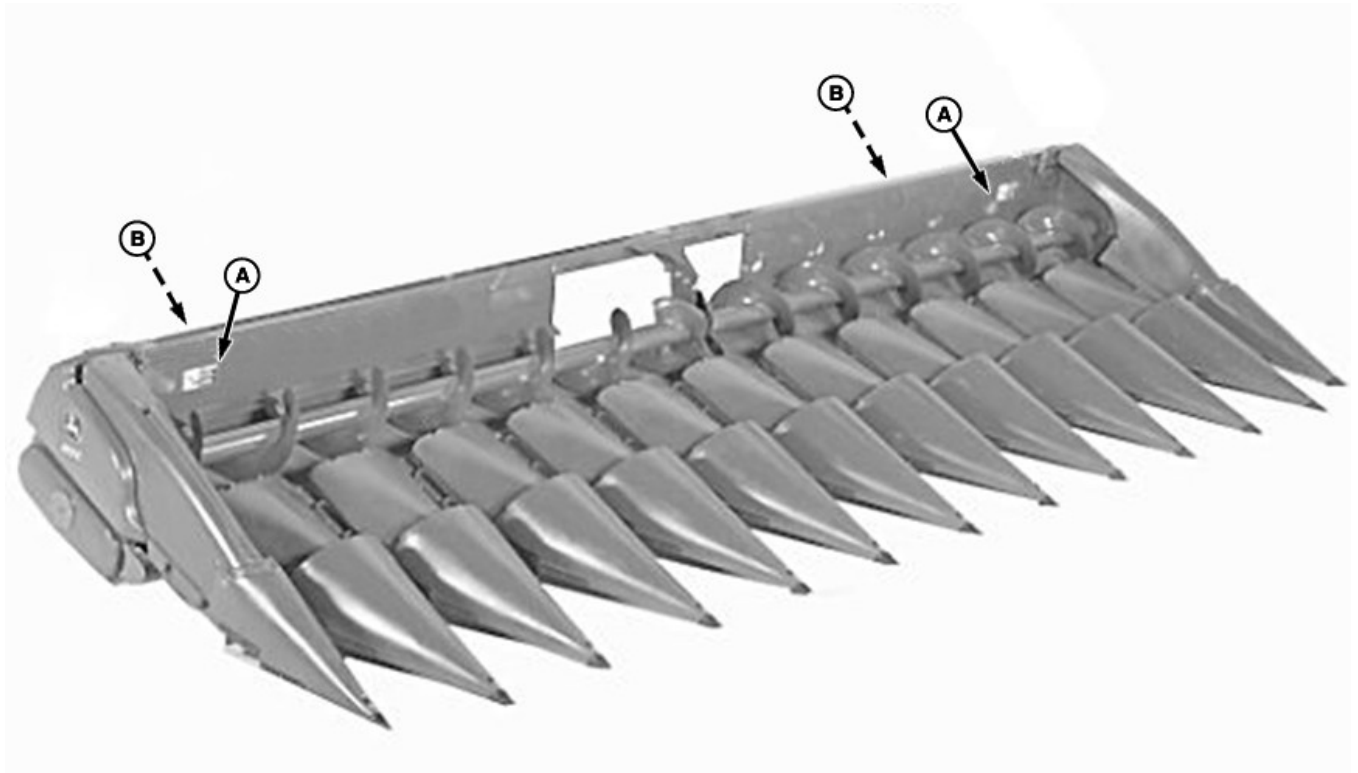
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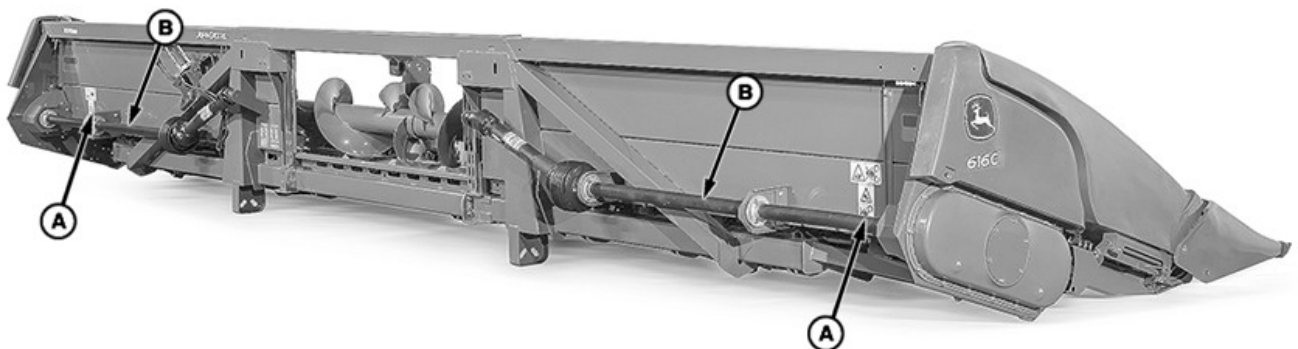
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Corn Header Safety Features

Corn Header Safety Features



BML012187—UN—14JUL20



BML022326—UN—29NOV21

In addition to the safety signs (A) and driveshaft shields (B) shown here, the safety messages, and instructions

in the Operator's Manual contribute to the safe operation of this corn head.

Q7P4ZQ4.0000122-19-25NOV21

Safety

Recognize Safety Information



T81389—UN—28JUN13

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

Follow recommended precautions and safe operating practices.

DX,ALERT-19-03OCT22

Understand Signal Words



▲ WARNING

▲ CAUTION

TS187—19—30SEP88

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

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

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

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

DX,SIGNAL-19-05OCT16

Follow Safety Instructions



TS201—UN—15APR13

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

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

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

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

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

DX,READ-19-01AUG22

Replace Safety Signs



TS201—UN—15APR13

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

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

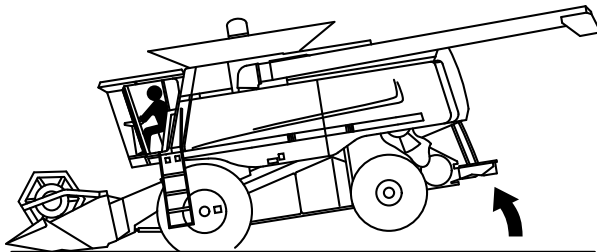
DX,SIGNS-19-18AUG09

Operator Ability

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

DX,ABILITY-19-07DEC18

Ballasting for Safe Ground Contact



H91075—UN—22APR08

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

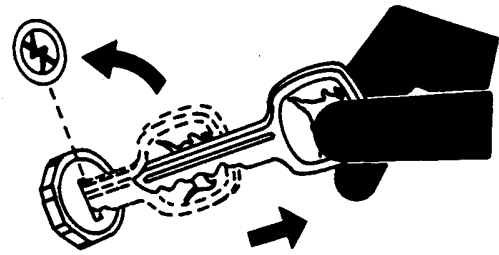
To maintain safe ground contact, ballast the combine at the rear end as necessary.

Observe the maximum permissible axle loads and total weights. For platform weights, see SPECIFICATIONS section of this manual.

NOTE: See more information about ballasting in your Combine Operator's Manual.

DF67602,000021E-19-09DEC13

Parking and Leaving the Machine



TS230—UN—24MAY89

Lower harvesting unit to the ground.

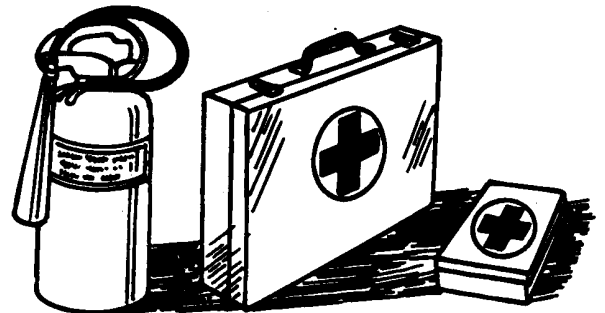
Before leaving machine, disengage harvesting unit and separator. Move multi-function lever to neutral position and shut OFF machine. Apply parking brake, remove key, and lock the operator's cab.

Never leave machine unattended as long as engine is running.

Never leave the operator's cab when driving.

OOU6075,0000AEB-19-11FEB14

Prepare for Emergencies



TS291—UN—15APR13

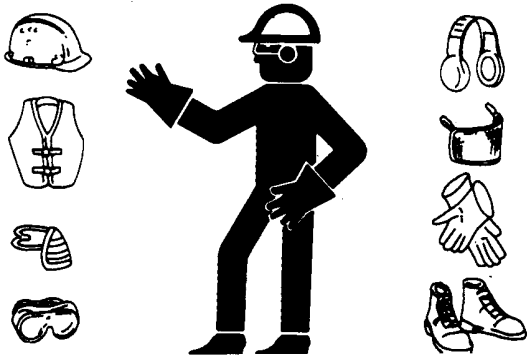
Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

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

DX,FIRE2-19-03MAR93

Wear Protective Clothing



TS206—UN—15APR13

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

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

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

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

DX,WEAR-19-10SEP90

Stay Clear of Harvesting Units



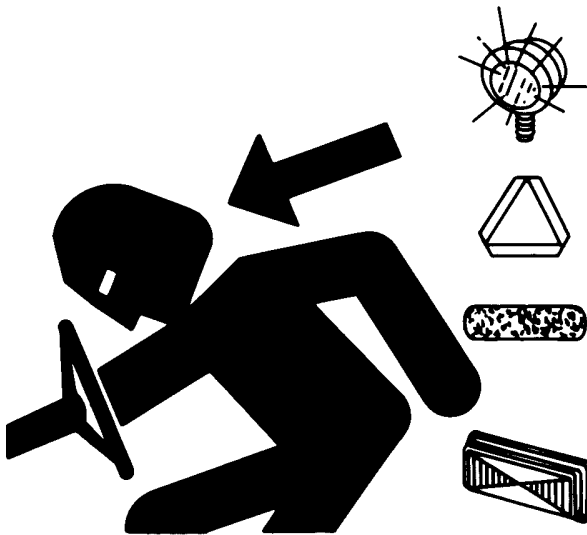
ES 118 704

ES118704—UN—21MAR95

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

FX,CUT-19-21DEC90

Use Safety Lights and Devices



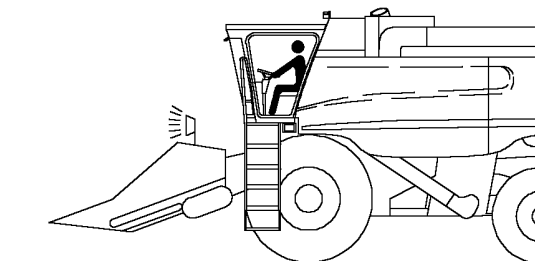
TS951—UN—12APR90

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

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

HX,STSSA,O-19-22JUL99

Transport Combine with Front-End Equipment Attached Safely



H51909—UN—07MAY99

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

If the combine must be transported with front-end equipment attached, make sure that equipment has proper lighting and marking installed and operating.

The use of a spotter or pilot vehicle is recommended.

Drive at a speed that is safe for the conditions.

IMPORTANT: Before driving the combine on public roads, consult the recommendations in the Combine Operator's Manual.

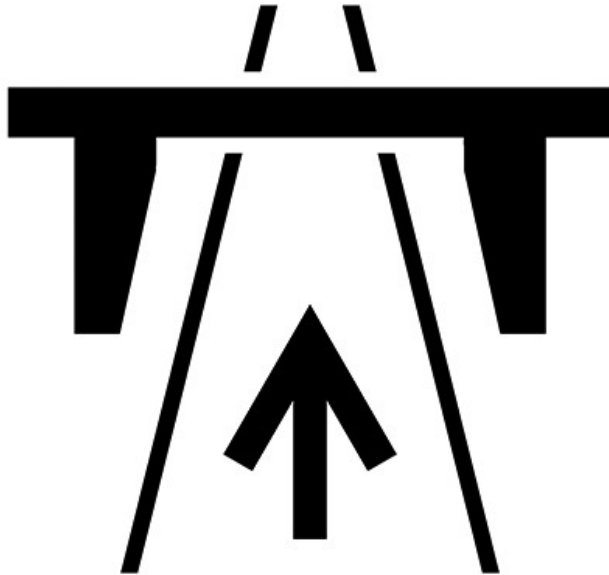
KP318TH,000006E-19-24NOV21

Comply with Road Traffic Regulations

Familiarize yourself with road traffic regulations if intending to travel on public road.

KP318TH,000006F-19-01DEC21

Road Transport Disconnect Switch



BML022327—UN—29NOV21

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

See road transport disconnect switch in your Combine Operator's Manual.

KP318TH,0000070-19-25NOV21

Practice Safe Maintenance



TS218—UN—23AUG88

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

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing away from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

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

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

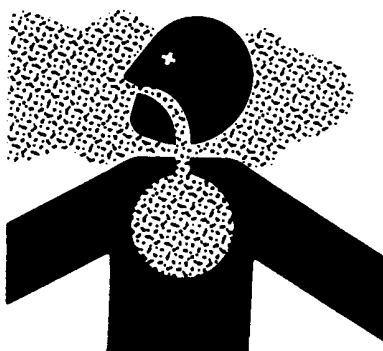
On self-propelled equipment, disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

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

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

DX,SERV-19-28FEB17

Remove Paint Before Welding or Heating



TS220—UN—15APR13

Avoid potentially toxic fumes and dust.

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

Remove paint before heating:

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

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

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

Dispose of paint and solvent properly.

DX, PAINT-19-24JUL02

Avoid Heating Near Pressurized Fluid Lines



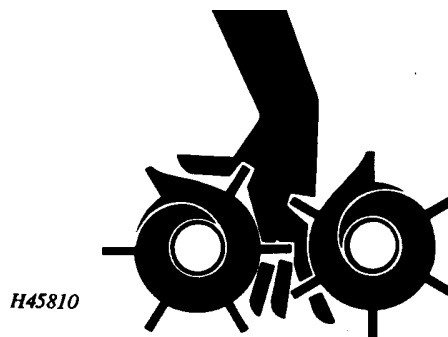
TS953—UN—15MAY90

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

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

DX, TORCH-19-10DEC04

Avoid Entanglement



H45810—UN—22JUL93

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

SS43267,0000113-19-10SEP12

Avoid Contact With Moving Parts



TS256—UN—23AUG88

Keep hands, feet, and clothing away from power driven parts. Never carry out any cleaning, lubrication or adjustment operation when engine is running.

HX, STSSA, L-19-22JUL99

Stay Clear of Rotating Drivelines



TS1644—UN—22AUG95

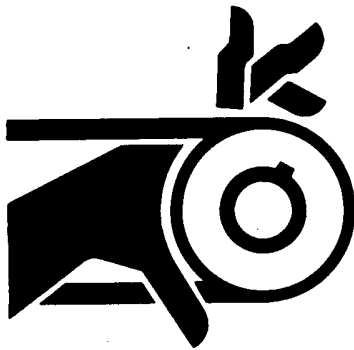
Entanglement in rotating driveline can cause serious injury or death.

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

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

DX,ROTATING-19-18AUG09

Guards and Shields



TS285—UN—23AUG88

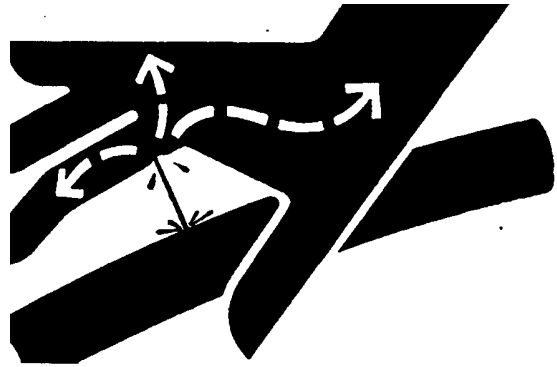
Always keep guards and shields fixed in position. Ensure that they are operating and mounted correctly.

Always disengage main clutch, shut off engine and remove starter key before removing any guard or shield.

Keep hands, feet, and clothing away from moving parts.

OUO6035,00014DF-19-18SEP01

Avoid High-Pressure Fluids



X9811—UN—23AUG88

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

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

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

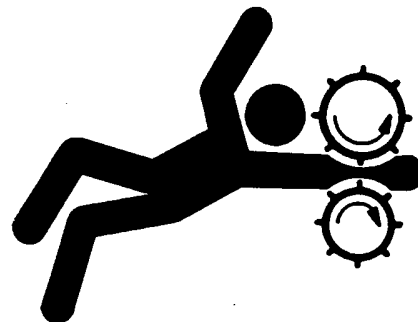
Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

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

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

DX,FLUID-19-12OCT11

Service Machines Safely



TS228—UN—23AUG88

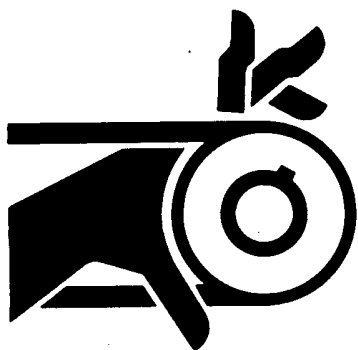
Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near

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

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

DX, LOOSE-19-04JUN90

Service Drive Belts Safely



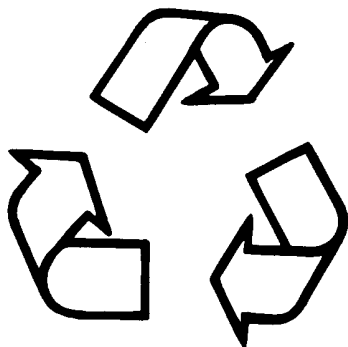
TS285—UN—23AUG88

When servicing drive belts always observe these precautions:

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

KP318TH, 0000071-19-24NOV21

Decommissioning — Proper Recycling and Disposal of Fluids and Components



TS1133—UN—15APR13

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

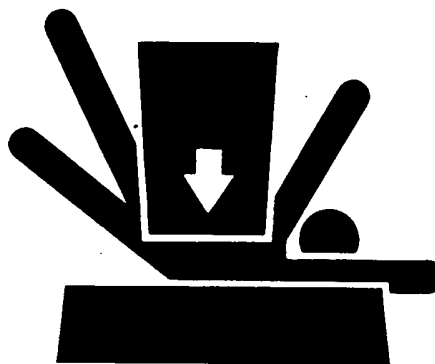
- Use appropriate tools and personal protective equipment such as clothing, gloves, face shields or

glasses, during the removal or handling of objects and materials.

- Follow instructions for specialized components.
- Release stored energy by lowering suspended machine elements, relaxing springs, disconnecting the battery or other electrical power, and releasing pressure in hydraulic components, accumulators, and other similar systems.
- Minimize exposure to components which may have residue from agricultural chemicals, such as fertilizers and pesticides. Handle and dispose of these components appropriately.
- Carefully drain engines, fuel tanks, radiators, hydraulic cylinders, reservoirs, and lines before recycling components. Use leak-proof containers when draining fluids. Do not use food or beverage containers.
- Do not pour waste fluids onto the ground, down a drain, or into any water source.
- Observe all national, state, and local laws, regulations, or ordinances governing the handling or disposal of waste fluids (example: oil, fuel, coolant, brake fluid); filters; batteries; and, other substances or parts. Burning of flammable fluids or components in other than specially designed incinerators may be prohibited by law and could result in exposure to harmful fumes or ashes.
- Service and dispose of air conditioning systems appropriately. Government regulations may require a certified service center to recover and recycle air conditioning refrigerants which could damage the atmosphere if allowed to escape.
- Evaluate recycling options for tires, metal, plastic, glass, rubber, and electronic components which may be recyclable, in part or completely.
- Contact your local environmental or recycling center, or your John Deere dealer for information on the proper way to recycle or dispose of waste.

DX, DRAIN-19-01JUN15

Support Machine Properly



TS229—UN—23AUG88

Always lower the attachment or implement to the ground before you work on the machine. If the work requires

that the machine or attachment be lifted, provide secure support for them. If left in a raised position, hydraulically supported devices can settle or leak down.

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

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

DX,LOWER-19-24FEB00

Store Attachments Safely



TS219—UN—23AUG88

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

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

DX,STORE-19-03MAR93

Safety Signs

Pictorial Safety Signs

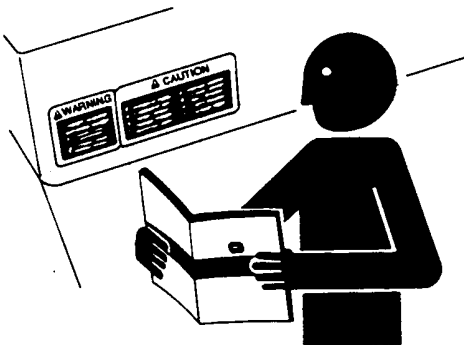


TS231—19—07OCT88

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

OUO6075,0001163-19-19JUN12

Replace Safety Signs



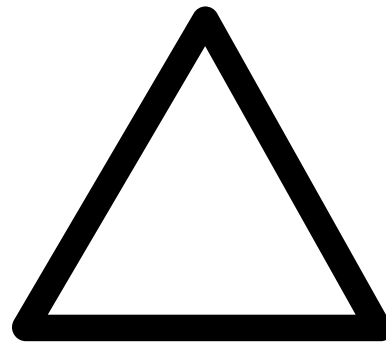
TS201—UN—15APR13

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

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

DX,SIGNS-19-18AUG09

Recognize Safety Information



T8130000497—UN—14FEB13

Figure A

Figure A: This symbol is used for a specific hazard as shown in the pictorial in the center of the triangle.



T8130000498—UN—14FEB13

Figure B

Figure B: This symbol is used for a general alert.

The additional blocks of the safety sign are pictorial of the avoidance action to be taken to avoid the hazard.

OU90500,0000354-19-27MAR17

Operator's Manual



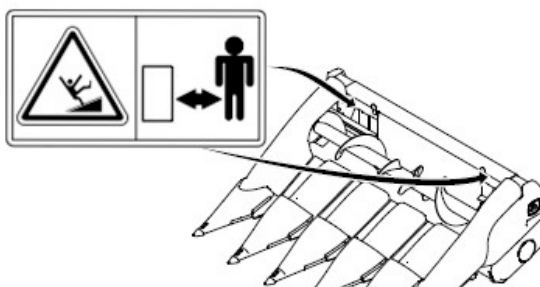
BML022328—UN—29NOV21

This Operator's Manual contains important information

necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.

aernqxv,1712168758248-19-03APR24

Header Entanglement

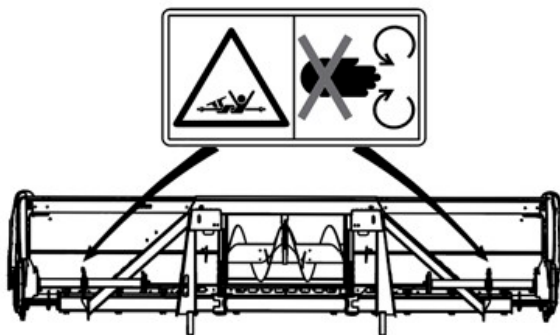


CQ1363520—UN—04APR24

Keep a safety distance from header while it is operating. Before carrying out any repair or service on header, disengage transmission, shut off engine, and remove ignition key.

aernqxv,1712171506795-19-05APR24

Rotating Driveline

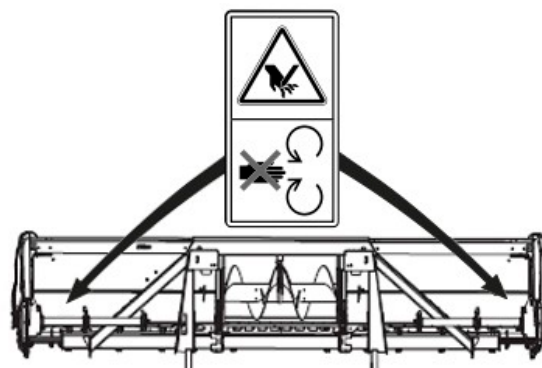


CQ1364325—UN—12APR24

Entanglement in rotating driveline can cause serious injury or death. Keep all shields in place. Avoid contact with rotating parts.

h3ymaet,1712929422030-19-12APR24

Cleanout Doors

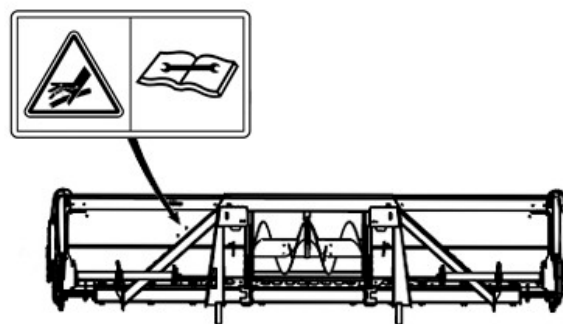


CQ1364326—UN—12APR24

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

h3ymaet,1712931019959-19-12APR24

Hydraulic Oil and Gas Under Pressure



CQ1364327—UN—12APR24

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

Before removing hydraulic components, disassembling or charging accumulators:

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

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

h3ymaet,1712931101343-19-12APR24

Coupling and Decoupling

Attaching and Detaching Corn Header to Forage Harvester or Corn Husker

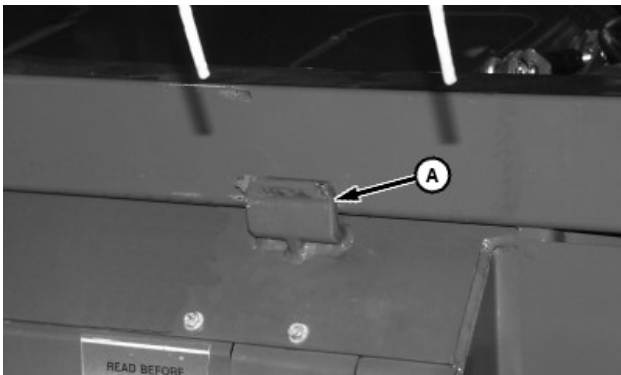
For attaching or detaching corn header on a forage harvester or a corn husker, see the Operator's Manual of the corresponding machine.

KP318TH,0000060-19-05NOV21

Attach Header to Feeder House—Individual Hoses

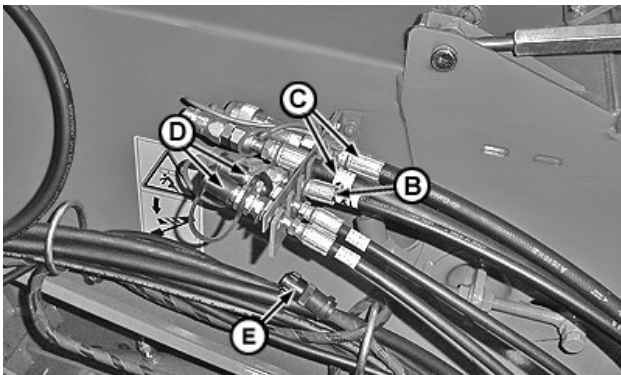
IMPORTANT: Locking pins are not to be actuated with header on ground. If hoses must be engaged with header on ground, unhook cable from lever.

1. Sound horn, start engine, and lower feeder house.
2. Drives combine slowly forward until feeder house is centered in coupling structure.

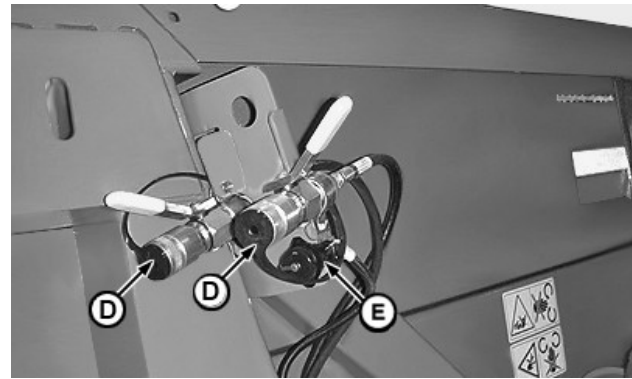


H70033—UN—19SEP01

3. Fully raise header and make sure that two feeder house hooks (A) reach front face of main beam of header frame.
4. Set park brake, shut off engine, remove ignition key, and lower safety stop.
5. Connect hydraulic hoses and wiring harness.



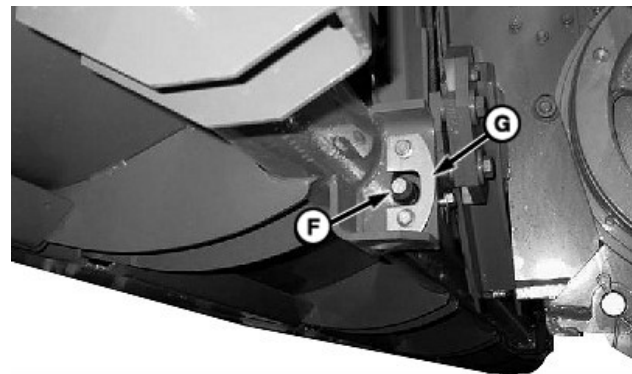
BML022309—UN—28OCT21



BML022310—UN—28OCT21

6. Connect hydraulic hoses (B) and wiring harness (C) to the feeder house.

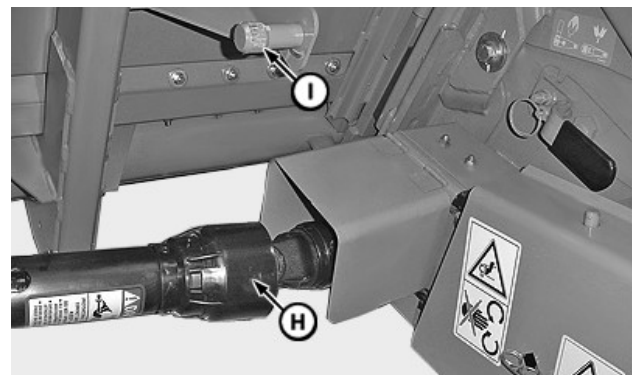
NOTE: The hoses have quick-couplers and are marked to prevent mix-up



BML022311—UN—28OCT21

NOTE: With header attached, attach locking pins (F) through receiving holes in header. If locking pins (F) do not extend, make sure that the locking plates (G) on the header are properly adjusted.

7. The locking pins (F) slide through the feeder house locking plates (G) when the coupling assembly is locked in place.



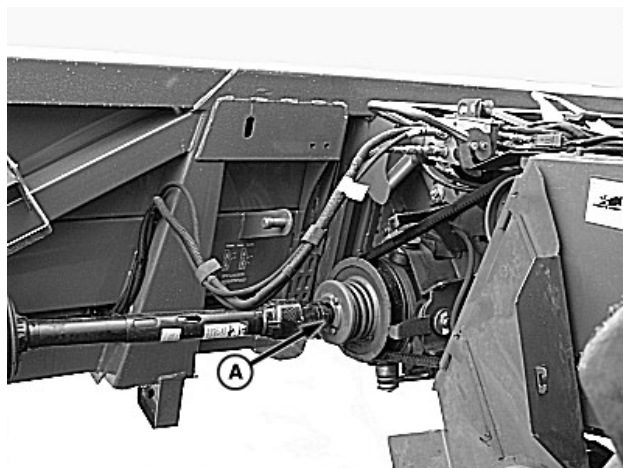
BML022312—UN—28OCT21

8. Remove telescopic shaft (H) from storage position (I) and mount on feeder house countershaft. Make sure that the quick-attaching collar is fully locked.

h3ymaet,1660666470738-19-16AUG22

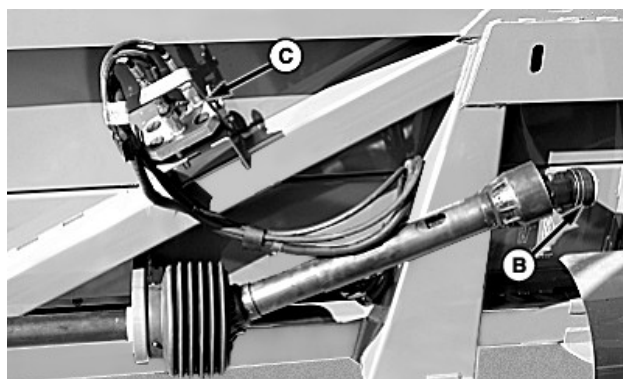
Detach Header from Feeder house— Multicoupler

CAUTION: If the feeder house is accidentally engaged, personal injury or machine damage may occur. Do not leave the driveshaft connected to the feeder house.



H89395—UN—31JUL07

1. Disconnect telescopic driveshaft at quick disconnecting coupler (A) at the left-hand side or both sides of feeder house.



CQ281132—UN—11JUN08

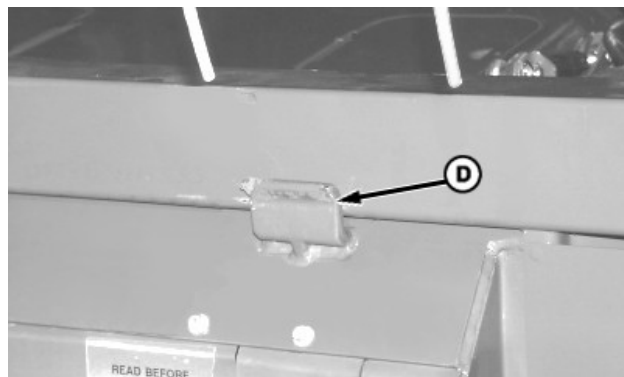
2. Store telescopic driveshaft in storage position (B).

IMPORTANT: Locking pins are not to be actuated with header on ground. If multicoupler must be engaged with header on ground, unhook cable from lever.

NOTE: Locking pins must be retracted when lever is entirely in contact with stop. Adjust installation of cable if locking pins are not retracted. (See Single Point Lock — Adjusting in this session)

3. Remove quick-lock pin and slide locking plate through multicoupler lock.
4. Raise lever to disconnect multicoupler.
5. Remove multicoupler cover from storage position on header and install it to combine multicoupler.

6. Disconnect multicoupler from combine and put in storage position (C).



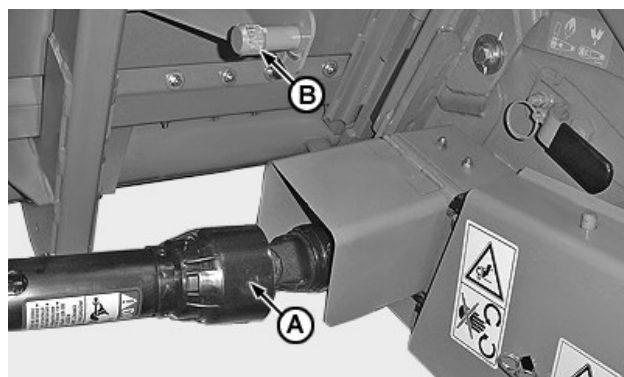
BML022308—UN—28OCT21

7. Sound horn, start engine, and lower feeder house until hooks (D) are below upper header beam.
8. Slowly back up the combine.

h3ymaet,1660667892781-19-16AUG22

Detach Header from Feeder House— Individual Hoses

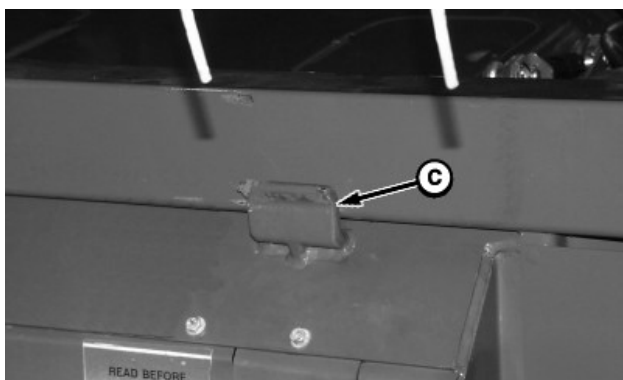
CAUTION: If the feeder house is accidentally engaged, personal injury or machine damage may occur. Do not leave the feeder house.



CQ283626—UN—06OCT09

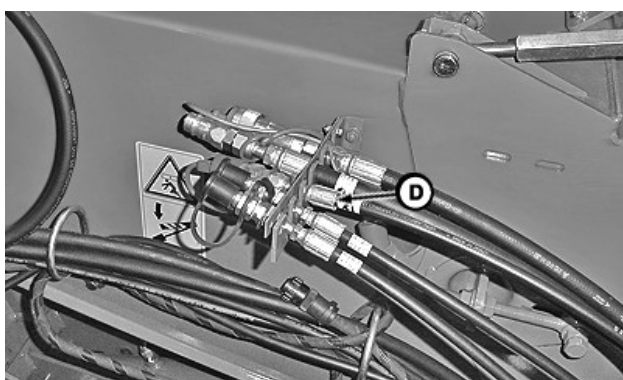
1. Disconnect telescopic driveshaft (A) at left-hand side of feeder house.
2. Put telescopic driveshaft in storage position (B).

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



BML022305—UN—28OCT21

Sound horn, start the engine, lower feeder house until hooks (C) are below upper header beam, and slowly back-up combine.



BML022306—UN—28OCT21

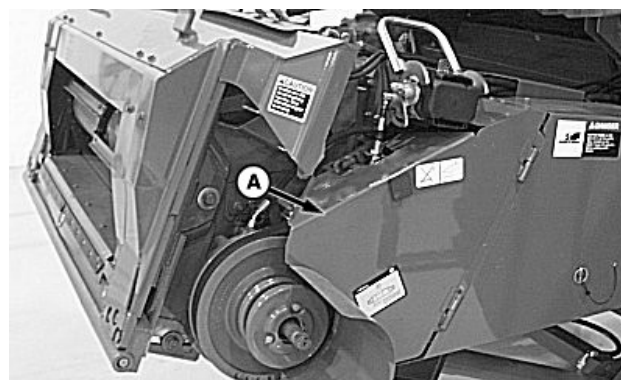
4. Store hydraulic hoses in bracket (D) on the right-hand side of feeder house and engage lock.

h3ymaet,1660669183834-19-16AUG22

Single Point Lock—Adjusting

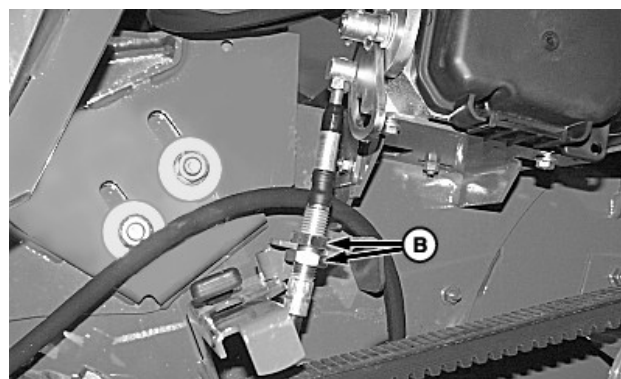
NOTE: Contour-Master™ Feeder House: adjustments are made only to cable of multicoupler lever.

Leveling Feeder House: Adjustments are made only to cable of multicoupler lever, unless cable is not centered at lower end (hitch pin location). See *Leveling Lower Feeder House End Cable—Adjusting* in this session.



H78649—UN—17OCT03

1. Open feeder house shield (A) of the left-hand side.



CQ281112—UN—11JUN08

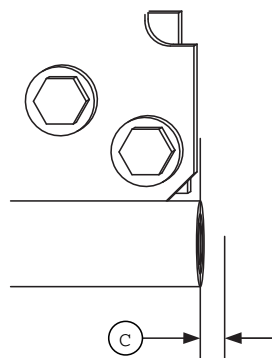
2. Loosen locknuts (B) of cable.

IMPORTANT: Check if lever is in contact with multicoupler stop. If lever touches stop, result in imprecise pin dimensions and cause header to fall off while harvesting or transporting.

3. Support multicoupler lever on stop.

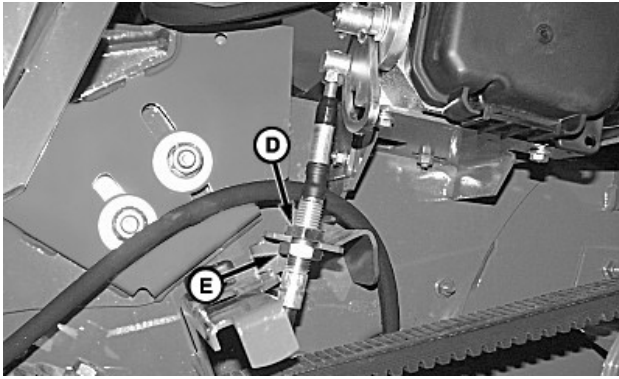
NOTE: Moving cable "upward" at support pulls in pin.
Moving cable "downward" at support pushes out pin.

4. For proper pin adjustment, adjust cable at support as necessary:



BML022307—UN—28OCT21

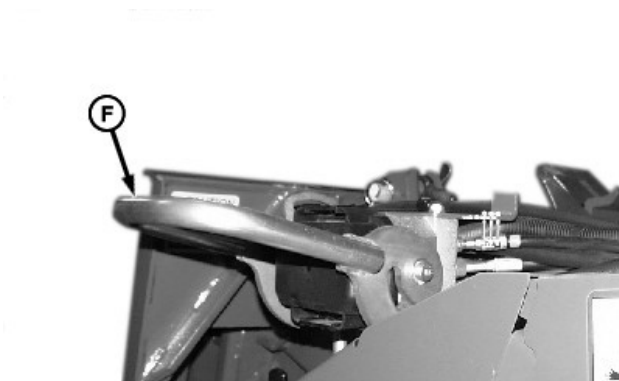
- Left-hand locking pin must have a dimension (C) of +/- 2 mm (0.08 in).



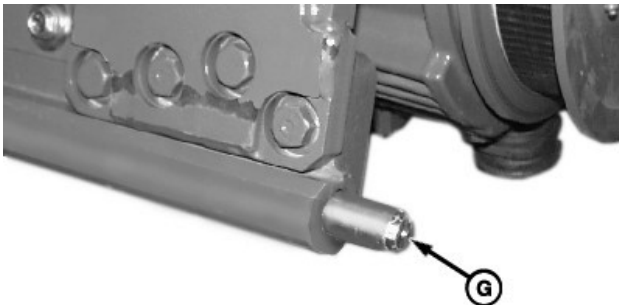
BML022302—UN—28OCT21

5. Hold lower locknut (E) and tighten upper locknut (D).

IMPORTANT: Avoid header from falling off while harvesting or transporting. Always check if pins are adjusted to specification.



BML022303—UN—28OCT21



BML022304—UN—28OCT21

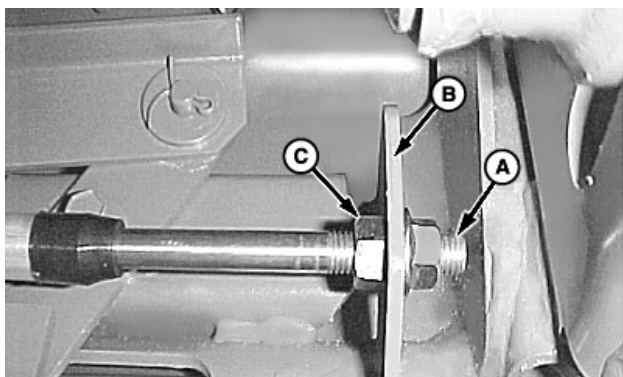
6. Lower multicoupler lever (F) and check if pins (G) (both sides) are adjusted to specification. Readjust if they are not adjusted to specification.

Specification

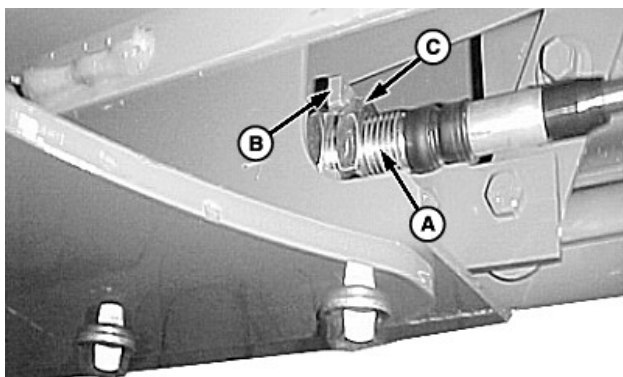
Feeder House Pins—Distance. 45—52 mm
(1-3/4 in —2 in)

KP318TH,000005B-19-01DEC21

Adjusting Lower Feeder House End Cable



CQ281114—UN—11JUN08

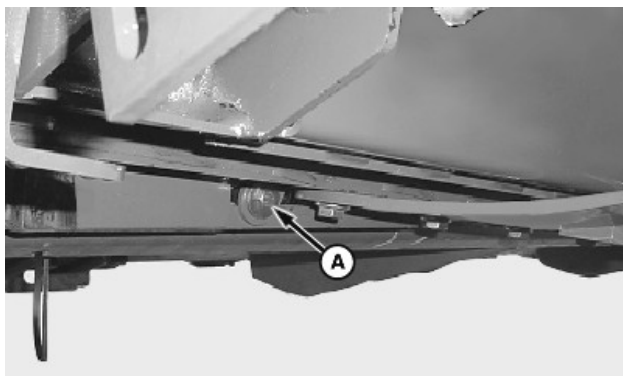


H79389—UN—10DEC03

1. Adjustments must be made at the lower end of the cable if threads (A) are not centered in support (B).
2. Loosen locknuts (C) and adjust cable so threads are centered in support (B).
3. Tighten locknuts (C).

KP318TH,000005C-19-01DEC21

Feeder House Lock Pins (Cleansing)

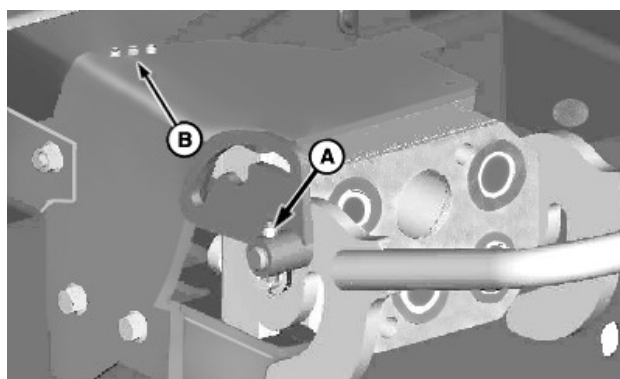


CQ281116—UN—11JUN08

If locking pins are hard to move, remove screws (A) and clean out pin area. It is necessary to tilt the feeder house frame in order to access these screws (A).

KP318TH,000005D-19-05NOV21

Location of Locking Cable Shear Bolt



CQ281135—UN—13JUN08

If shear bolt (A) breaks, remove and replace with an extra shear bolt (B). Three additional shear bolts are supplied.

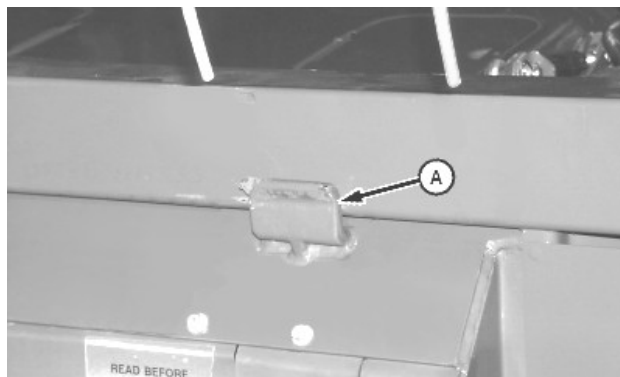
KP318TH,000005F-19-05NOV21

Attach Header to Feeder House—Multicoupler

IMPORTANT: See combine Operator's Manual for specific tires required when using this header.

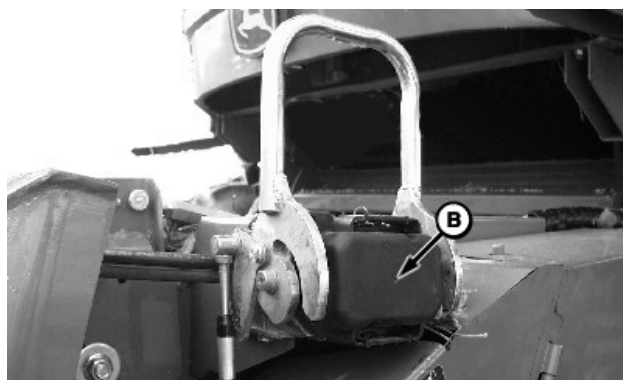
Locking pins are not to be actuated with header on ground. If multicoupler must be actuated with header on ground, unhook cable from handle.

1. Sound horn, start engine, and lower feeder house. Drive combine slowly forward until feeder house is centered in opening of coupling structure.

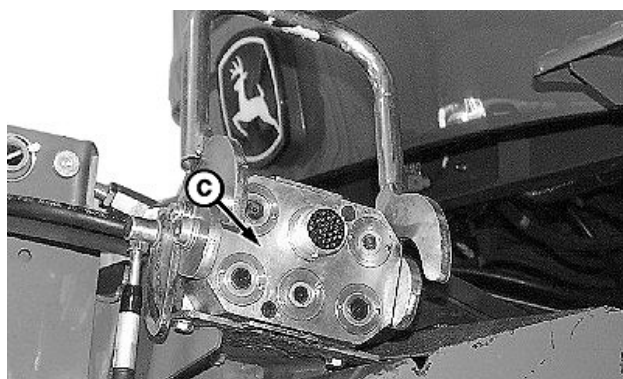


CQ281105—UN—11JUN08

2. Fully raise header, checking that two feeder house hooks (A) secure front face of main header beam.
3. Set park brake, shut off engine, and remove ignition key.
4. Lower safety stop.

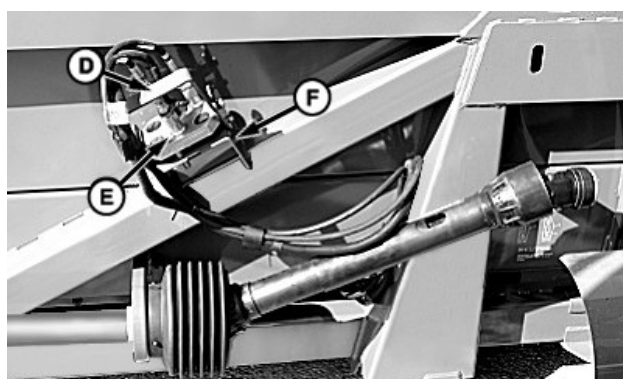


BML022313—UN—28OCT21



BML022314—UN—28OCT21

5. Remove cover (B) and clean multicoupler face (C).

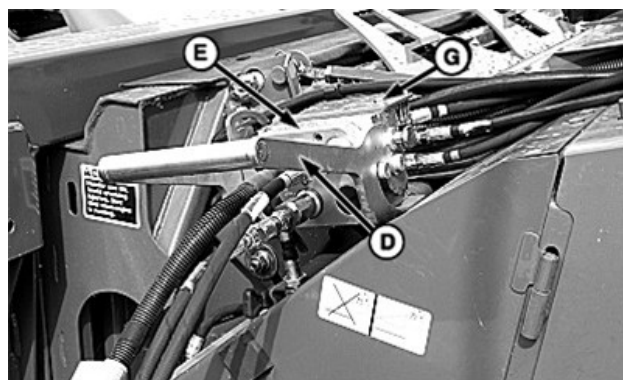


BML022315—UN—28OCT21

6. Open lever (D) and remove multicoupler (E) from storage support (F).

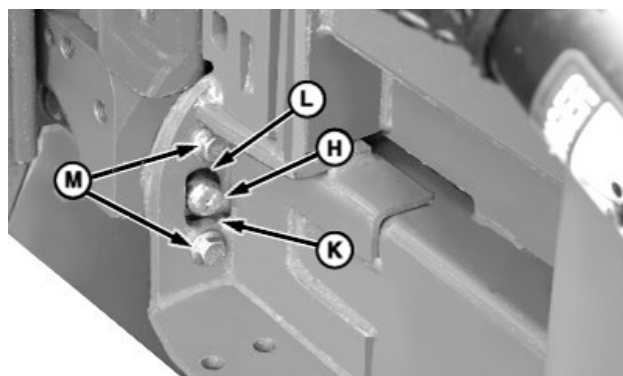
NOTE: To prevent damage to the hitch cable, a shear screw is attached to the lever. Attempts to engage locking pins with header on ground shears off this screw on the lever.

With header attached, locking pins must move freely through receiving holes in locking plate. If locking pins do not extend through locking plates, make sure that header locking plates are properly adjusted.

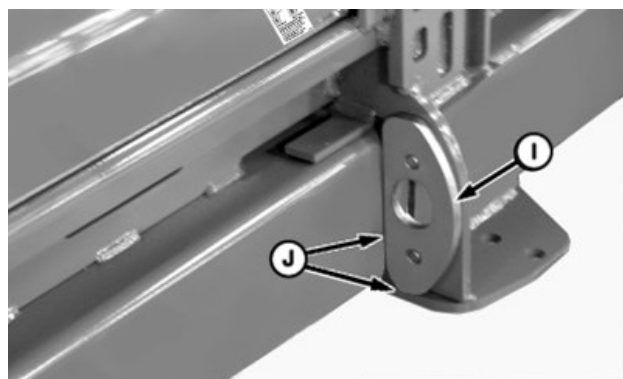


BML022316—UN—28OCT21

7. Install multicoupler (E) to receptacle (G) and close lever (D).



BML022317—UN—28OCT21



BML022318—UN—28OCT21

Locking pins (H) must move freely through bores of header locking plate when multicoupler is locked. Locking plate (I) must be in contact with support (J). It is preferable to have a smaller play (K) between lower part of plate and pin than top of plate (L) and pin and require that locking plate is inverted.

8. **If adjustment is necessary:** remove screws (M). Invert locking plate (I) top-down and reinstall.
9. Tighten M12 screws to specification.

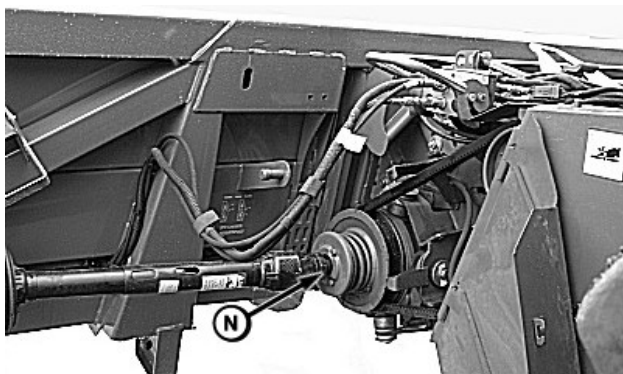
Specification

M12 Screws—Torque. 130 N·m
(96 lb·ft)



BML022319—UN—28OCT21

10. Install multicoupler cover (B) at header storage position.

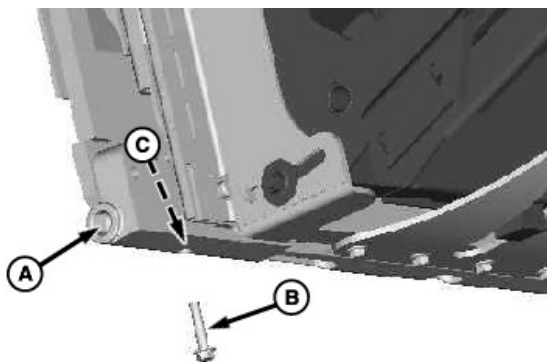


BML022320—UN—28OCT21

11. Remove telescopic shaft (N) from storage position and install it to feeder house rear shaft. Make sure that the quick-coupling collar is fully locked.

h3ymaet,1660669670413-19-16AUG22

Feeder House Manual Unlatching



H74310—UN—18NOV02

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

KP318TH,000005E-19-05NOV21

Transport

Transporting Corn Header on a Trailer (If Equipped)



H88843—UN—31JUL07

Folding Points for Transport

CAUTION: Avoid accidents. Comply with local regulations regarding load width, lighting, and markings.

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

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

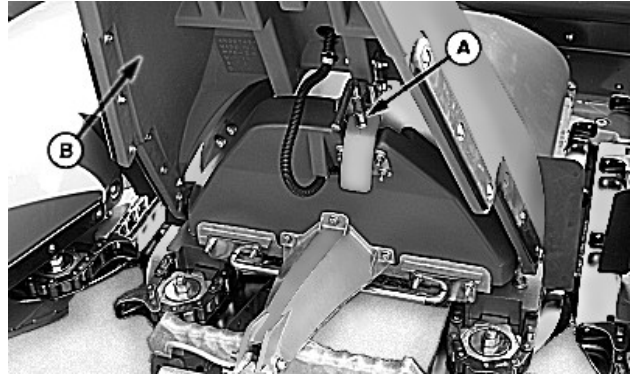
- Do not transport trailers without brakes at speeds greater than 32 km/h (20 mph) and trailers with brakes at speeds above 40 km/h (25 mph).
- When towing always, attach an appropriately sized safety chain.
- Always make sure that a slow moving vehicle sign is mounted at the rear of the trailer or header.
- Always make sure that the rear of the trailer is equipped with red reflectors, two red tail lights, and turn signals.

See the combine's Operator's Manual for combine transport procedures.

If equipped with ACTIVE HEADER CONTROL (AHC)[™] ground sensors, the sensors must be in the storage position to prevent equipment damage when folding up points of header (see instructions in this procedure).

ACTIVE HEADER CONTROL is a trademark of Deere & Company

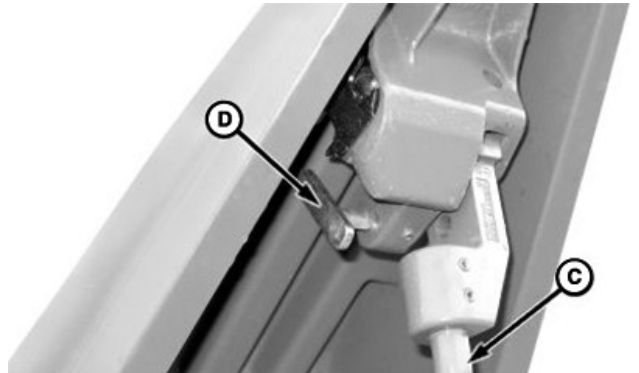
The stitch is folded up to reduce the width of the transport. (See **Folding Points for Transport** illustration).



CQ281117—UN—13JUN08

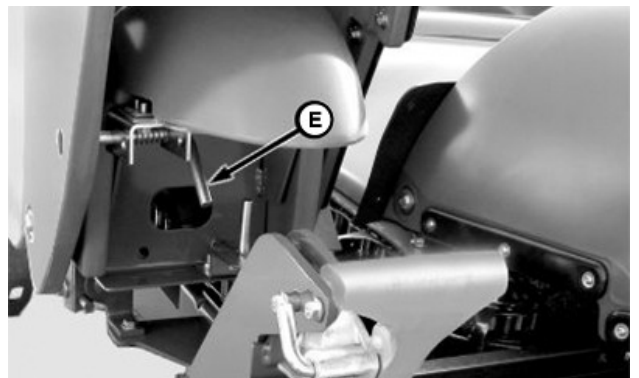
Inner Divider:

- a. Raise point (B) and engage lock (A).
- b. Put in storage position.



BML022279—UN—21OCT21

IMPORTANT: If equipped with ACTIVE HEADER CONTROL (AHC)[™]: Rotate sensor arm (C) up into storage position and retain with the storage locking pin (D).



BML022278—UN—21OCT21

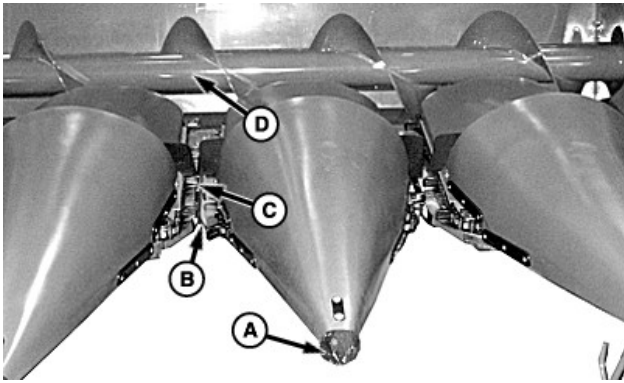
2. Outer Divider:

- a. Raise end until locking pin (E) engages.
- b. To lower, push hitch and lower end.

KP318TH,0000006-19-01DEC21

Header Operation

General Information



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

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

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

Q7P4ZQ4,0000128-19-05NOV21

Starting in the Field

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

After making several rounds, stop the corn header shutoff engine, remove ignition key. Check all bearings for heating. All screws must be tight and chains properly adjusted.

Q7P4ZQ4,0000129-19-11NOV21

Adjust Corn Header Properly

After making several rounds, check adjustments on corn header and combine. See Adjustments section.

Q7P4ZQ4,000012A-19-05NOV21

Drive and Operate Carefully

Drive carefully, and ensure that the corn header remains between the rows. Start operations at low speed and increase speed up to suitable operating ground speed.

IMPORTANT: Never strain corn header or combine to the point of overloading. Overload can cause damage.

Listen to clutch slip or other uncommon noises. If corn

header is clogged, clean it, keeping the engine at operational speed, but reduce ground speed until corn header is clean.

IMPORTANT: Forward movement of combine must be approximately the same as rearward movement of gathering chain lugs, otherwise an obstruction occurs.

Q7P4ZQ4,000012B-19-01DEC21

Engaging/Disengaging Corn Header

To engage the corn header, the following conditions must be met:

- Operator seated on operator's seat.
- Separator engaged before header.
- Engine in low idle.

NOTE: Consult your combine's Operator's Manual about switches to be engaged.

Q7P4ZQ4,000012C-19-19OCT21

Corn Header Drive Speeds

Combine ground speed must be close to the same as rearward movement of gathering chain lugs.

If ground speed is too fast, gathering chains push the stalks forward and throw out the ears. If ground speed is too slow, gathering chains jerk the stalks back into the corn header, possibly shearing off stalks or throwing out the ears.

Q7P4ZQ4,000012D-19-19OCT21

Combines With Fixed-Speed Feeder House

Refer to Adjustments section for modifying header speed on fixed-speed feeder house combine.

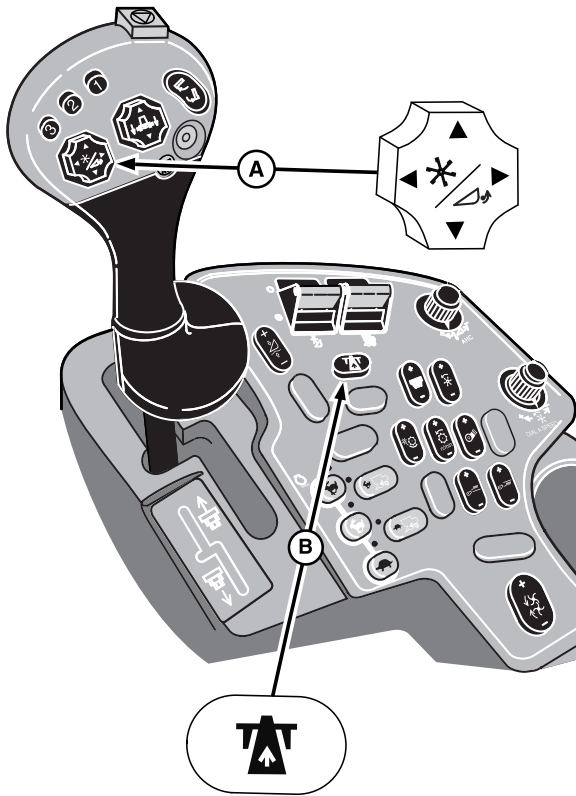
Q7P4ZQ4,0000130-19-05NOV21

Harvesting Popcorn

- Adjust deck plates as close as possible.
- Check combine Operator's Manual for correct settings.
- Raise cross auger so the largest diameter ear passes between flighting and floor without contact.
- Decrease header backshaft speed.

Q7P4ZQ4,0000132-19-01DEC21

Combines with Variable Speed Feeder House



H74734—UN—18MAR03

Corn header transmission speed varies by modifying the shaft speed of the lower feeder house. Lower feeder house shaft speed is changed with reel switch (A) on multi-function lever.

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

To increase speed, keep upper part of switch pressed and to reduce speed, keep lower part pressed.

To adjust speed, engine and header must be operating.

Q7P4ZQ4,000012E-19-05NOV21

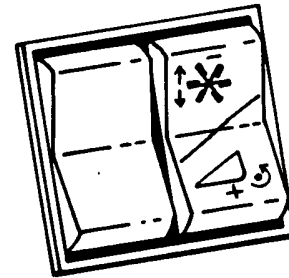
Headers Compatible with AutoTrac™ RowSense™

The AutoTrac™ RowSense™ component can only be installed on Premium models of headers (that have Active Header Control installed) and have spacings of 45 cm, 50 cm, and 52.5 cm (17.7 in, 19.7 in, and 20.7).

Q7P4ZQ4,0000137-19-05NOV21

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

Combines with Variable Speed Feeder House Drive Belt



H43707

H43707—UN—06AUG91

Corn header transmission speed varies according to speed modification of the lower feeder house shaft. Lower feeder house shaft speed changes by pressing plus (+) or minus (-) switch on hydraulic lever.

Keep lower part of switch pressed to increase speed and keep upper part pressed to reduce speed.

To adjust speed, engine and header must be operating.

Speed of feeder house shaft equipped with variable speed drive varies approximately 630—780 rpm.

Use the following table an orientation for matching corn header speed with combine ground speed.

	Approximate combine ground speed	Approximate lower feeder house shaft speed
Low:	6.4 km/h (4.0 mph) 8.9 km/h (5.5 mph)	630 rpm 710 rpm
High:	11.3 km/h (7.0 mph)	780 rpm maximum

Q7P4ZQ4,000012F-19-05NOV21

Harvesting Corn with Weakened or Broken Stalks

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

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

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

- Replace stalk rolls if flutes are badly worn.
- Retime the gatherer chains so the flights are directly opposite from each other.

Q7P4ZQ4,0000131-19-05NOV21

Gatherers



H89417—UN—01AUG07

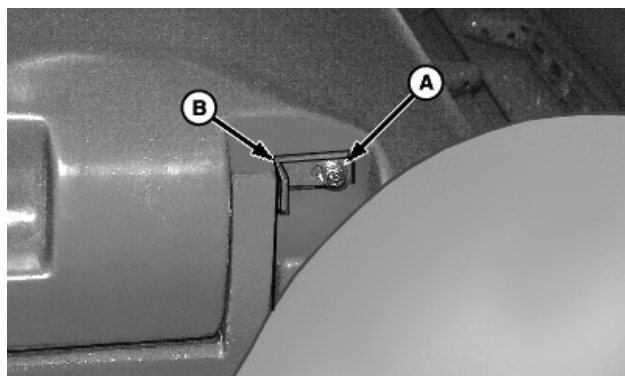
For most conditions, operate with the front of gatherer points just touching the ground.

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

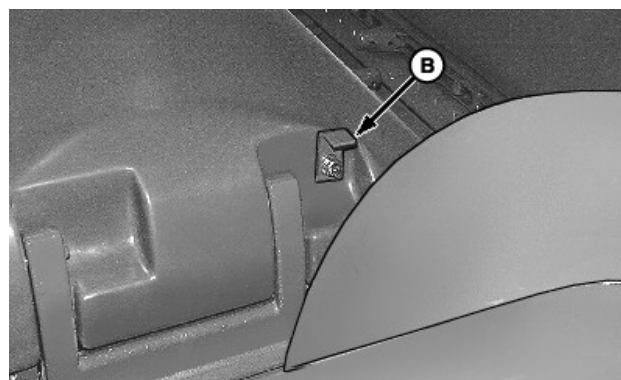
Adjust all points to the same level.

Q7P4ZQ4,0000133-19-05NOV21

Removing Point and Inner Divider Shield



CQ281120—UN—11JUN08



CQ281121—UN—11JUN08

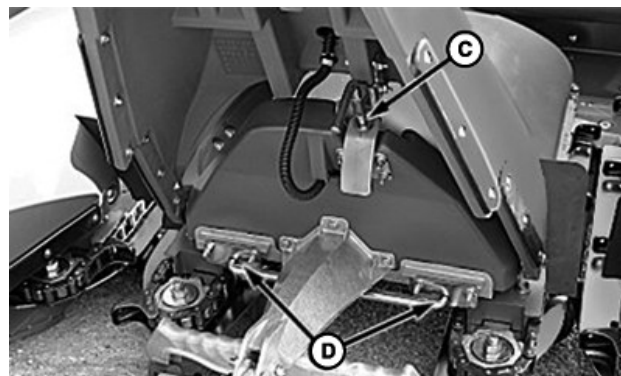
1. Loosen screw (A) on rear part of divider shield and raise stop (B) to vertical position.

NOTE: Do not overtighten screw (A).

Specification

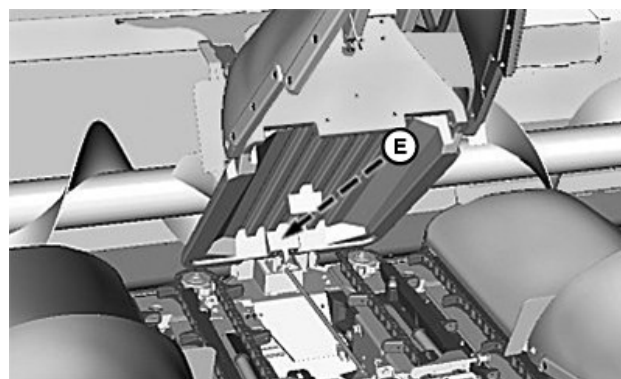
Divider Shield Stop

Bolt—Torque. 20 N·m
(177 lb·in)



BML022275—UN—21OCT21

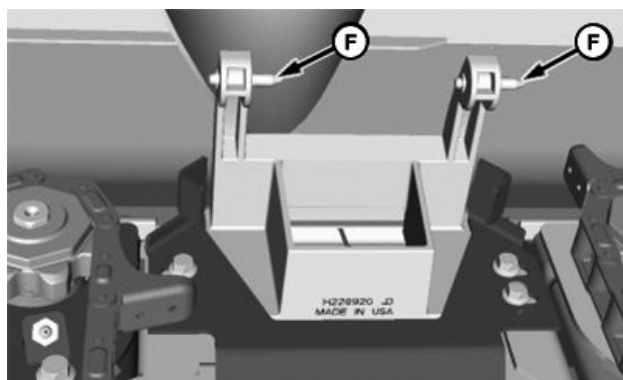
2. Raise point and secure using pin (C). Pull locking bar (D) and raise point.



BML022276—UN—21OCT21

3. If equipped: Disconnect ACTIVE HEADER CONTROL sensor wiring of harness connector (E) from main wiring harness connector. Connector is located inside of plate cover, next to passage bore. Cut plastic tie band tied to rear part of cover and then remove connector to gain access.

CAUTION: Avoid injury. Point and shield assembly is heavy and awkward to handle.

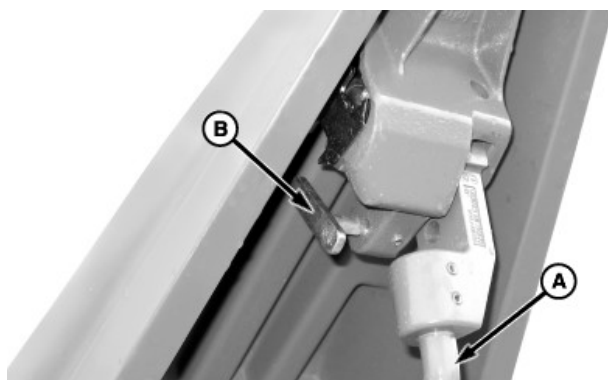


BML022277—UN—21OCT21

4. Slide the divider shield to the right-hand side until shield is free of support pins (F) raise point and divider shield assembly.

Q7P4ZQ4,0000134-19-01DEC21

Loosening ACTIVE HEADER CONTROL Ground Speed Sensors (If Equipped)



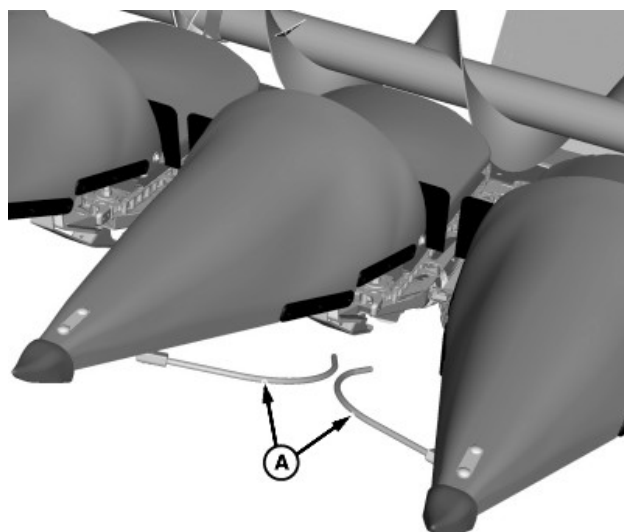
CQ281118—UN—12JUN08

To unlock sensor arm (A), sustain sensor arm (A) and pull out storage pin (B).

Storage locking pin remains in unlocked position for field operation.

Q7P4ZQ4,0000135-19-05NOV21

AutoTrac™ RowSense™ (If Equipped)



H95836—UN—25MAR10

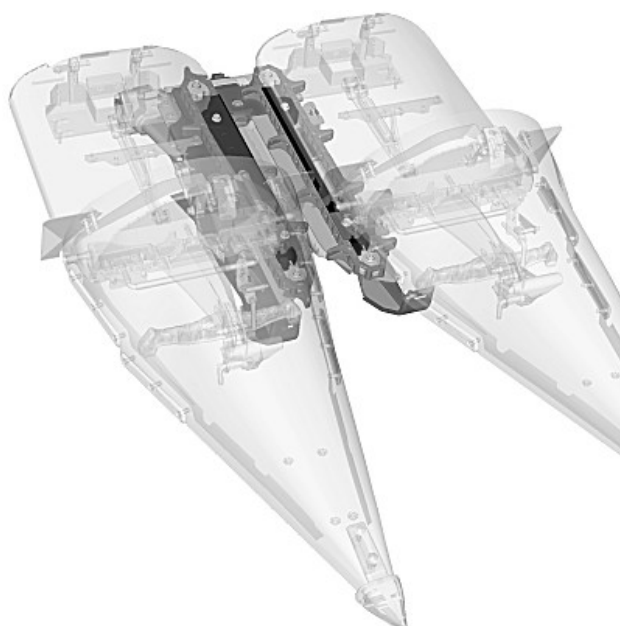
The AutoTrac™ RowSense™ uses inputs from sensors mounted on the corn header to assist the fitted GPS navigation in steering the combine during harvest.

When the cornstalks pass the points, they move an installed arm assembly mounted on sensor (A). The signals from these sensors are used to identify the corn row location and to carry out the required adjustments in order to keep the combine aligned with the crop.

See your John Deere Dealer for more information.

Q7P4ZQ4,0000136-19-05NOV21

Row Units



H99154—UN—22NOV10

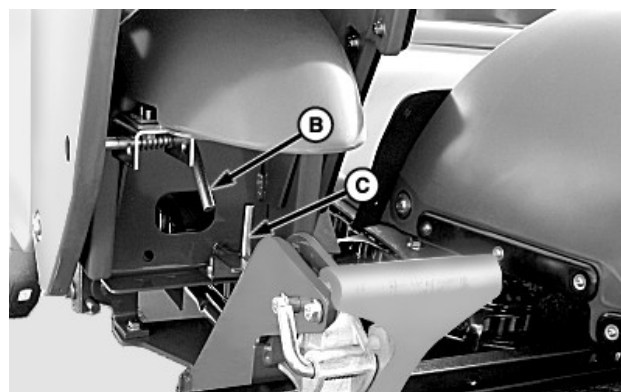
Row unit houses rasp plates, harvesting chains, deck plates, and stalk rolls. Corn ears harvested from stalk and conveyed to auger by row units.

Q7P4ZQ4,000013A-19-01DEC21

Raising and Inclining Points and End Fenders



CQ281122—UN—11JUN08

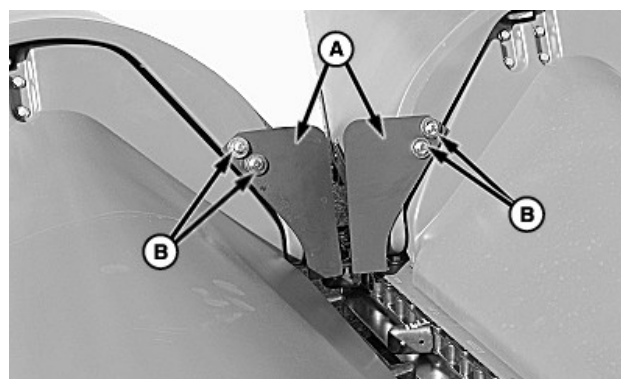


CQ281123—UN—11JUN08

1. Release locking pin (A) and turn it into locked position.
2. Raise end until locking pin (B) engages.
3. Release pins (C) and turn gatherer shield pointing outward.

Q7P4ZQ4,000013B-19-20OCT21

Ear Savers



H89201—UN—12JUL07

Ear savers (A) prevent loss of ears sliding over the gatherer chains to the ground.

In downed corn, or if stalks tend to plug up at the gatherer throat opening, remove ear savers (A). Retain ear savers and screws.

In standing corn, reinstall ear savers (A) to prevent ear loss.

Replace ear savers (A) as follows:

Remove screws (B) holding ear savers in place and remove ear savers (A).

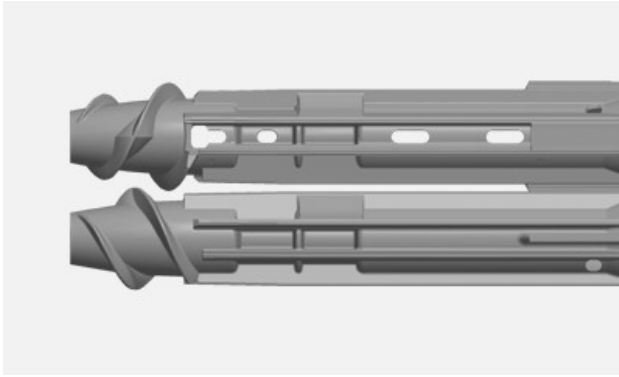
NOTE: When installing ear savers (A), tighten screws to specification.

Specification

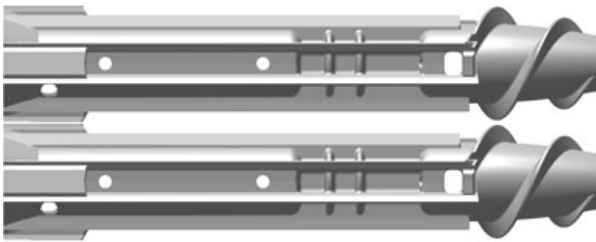
Screws—Torque. 20—25 N·m
(177—221 lb·in)

Q7P4ZQ4,000013B-19-01DEC21

Stalk Rolls



CQ289519—UN—16JUL11



BML029739—UN—28NOV22

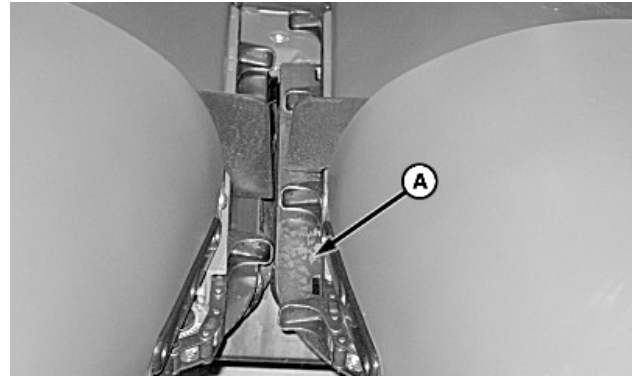
Stalk Rolls for 612C—China Only

Stalk rolls pull corn ears downward so that ears are separated from stalks and deposited on deck plates. John Deere 600C Series corn headers are equipped with straight stalk rolls, recommended for:

- Reduction of header cost
- Slow residue breakdown
- Maximization of residue at planting time
- Snow retention or humidity maintenance
- Improvement of residue flow through straight spacing tools when not plowing
- Complete shredding with a flail shredder
- Good performance in dry, moderately brittle conditions where stalks break off slightly below the ear

h3ymaet,1669054672070-19-28NOV22

Hydraulically Adjusted Deck Plates



H89701—UN—21AUG07

NOTE: To adjust or calibrate deck plate, consult Operator's Manual of your combine.

Hydraulically adjusted deck plate (A) allows operator to adjust deck plates from inside of cab. Preventing header grain loss depends on size of stalks and ears.

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

Pressing reel extend switch opens deck plates and pressing reel retract switch closes deck plates.

Q7P4ZQ4,000013C-19-08NOV21

Auger



CQ281124—UN—11JUN08

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

Q7P4ZQ4,000013D-19-20OCT21

Calibration and Programming

When to Calibrate

NOTE: All Calibrations: consult calibrations for your header in your combine's Operator's Manual.

Calibration procedures must be carried out before first use or if header height sensor, deck plate position sensor, or associated components were replaced.

- Header Calibration
- Contour-Master™ Angle Sensor Calibration
- Adjustable Hydraulic Deck Plate
- Active Float Calibration

NOTE: Any condition causing error must be corrected before proceeding with calibration.

If there is any error during calibration procedure, error codes are shown on the combine's digital display.

KP318TH,0000004-19-08NOV21

Calibration Error Codes

IMPORTANT: Conditions causing the error code must be corrected before the calibration procedure can continue.

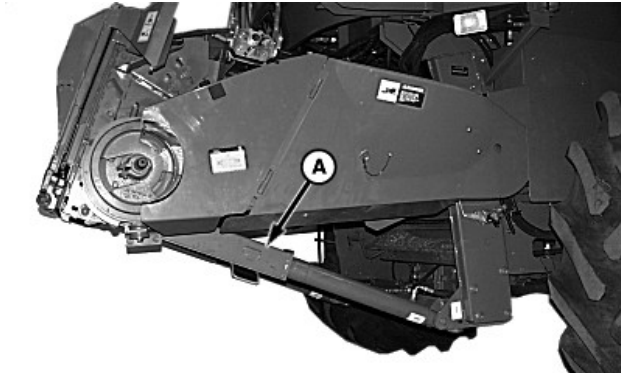
If any error codes occur (ERxx) during the calibration procedures, call your John Deere dealer with the error code number.

KP318TH,0000005-19-21OCT21

Adjustments

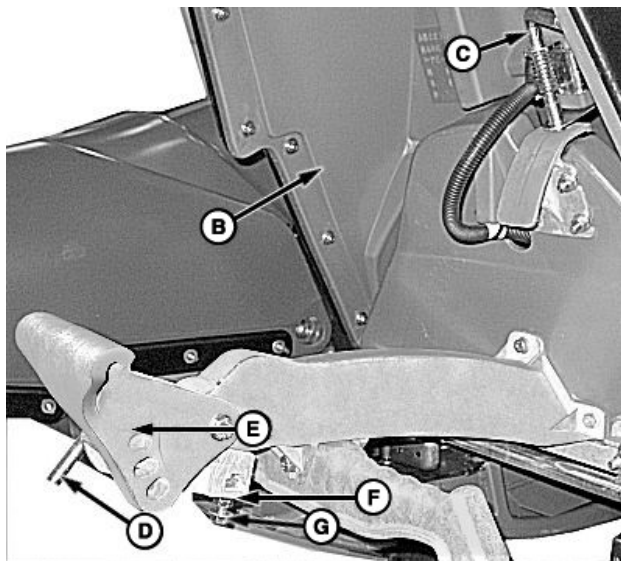
Adjusting and Leveling Divider Points

CAUTION: Prevent header from lowering. When working under the corn header, always place hydraulic cylinder safety stop (A) in safety position.



H70038—UN—19SEP01

1. Raise corn header until points are off the ground.
2. Shut down engine and remove ignition key.

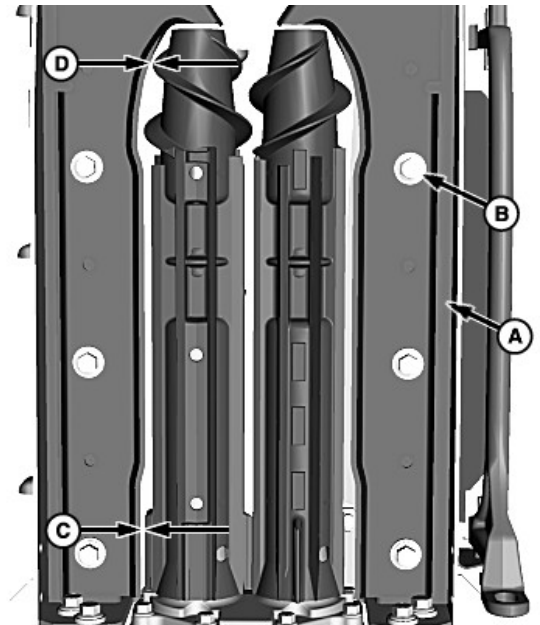


BML022283—UN—08NOV21

3. Start with one of the points and level the remaining points according to the first one
4. Start with one of the points and level the remaining points according to the first one.
5. Raise point (B) and engage lock (C).
6. Remove spring locking pin (D) and adjust height using localization bores (E).
7. The points can also be fine adjusted by loosening locknut (F) and adjusting bolt (G) upward or downward.

KP318TH,000003A-19-19JAN24

Adjusting Rasp Plates



H101481—UN—17MAY11

Rasp plates (A) prevent weeds and straw from wrapping around stalk rolls.

Rasp plates (A) must be set as close as possible to the rolls without striking the flutes.

1. Loosen screws (B).
2. To make sure that play between lug and rasp plate (C) is within specification, check rear part of rasp plate:

Specification

Maximum Play—Stalk Roll Lug-
to-Rasp Plate—Play. 1.5 mm
(1/16 in)

3. Adjust the play between stalk roll spiral and rasp plate (D) allowing stalk roll to turn.
4. Install screw (B) according to specification.

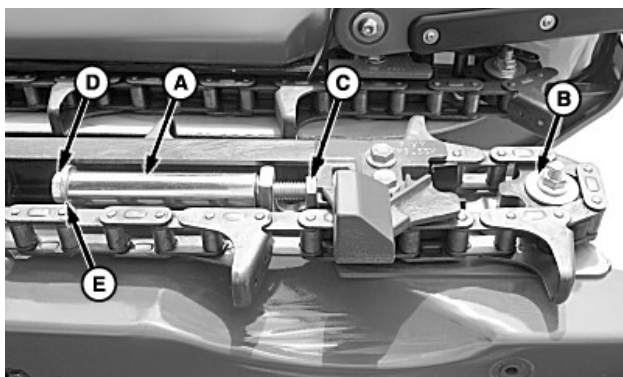
Specification

Rasp Plate Attaching
Screws.—Torque. 130 N·m
(96 lb·ft)

5. Manually turn stalk rolls and make sure that there is no contact between stalk roll and rasp plate (A).
6. Repeat procedure on opposite rasp plate (A) and remaining row units.

KP318TH,000003B-19-01DEC21

Adjusting Gatherer Chain Tension



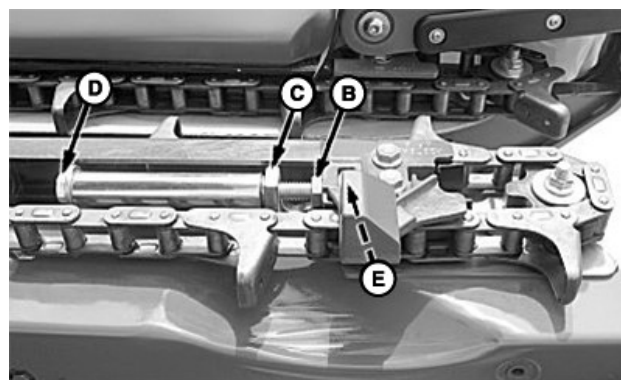
H99091—UN—17NOV10

The spring-loaded tightener maintains gatherer chain tension. A spacer tube (A) shields the spring that also serves as a stop to prevent intermediate shaft idler sprocket (B) from retracting too far.

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

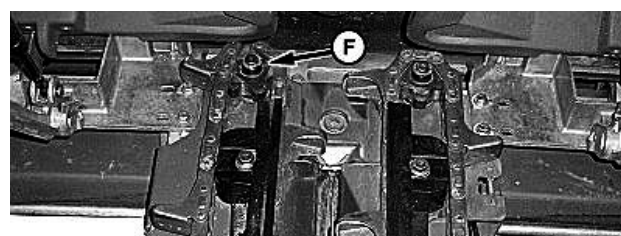
To prevent chain from running off idler sprocket, maintain a 4.8 mm (3/16 in) maximum space between spacer tube (A) and washer (E).

KP318TH,000003C-19-08NOV21



BML022284—UN—25OCT21

2. Turn nut (B) until contacting leg (C) of idler support.
3. Loosen screw (D) until nut (E) is released.

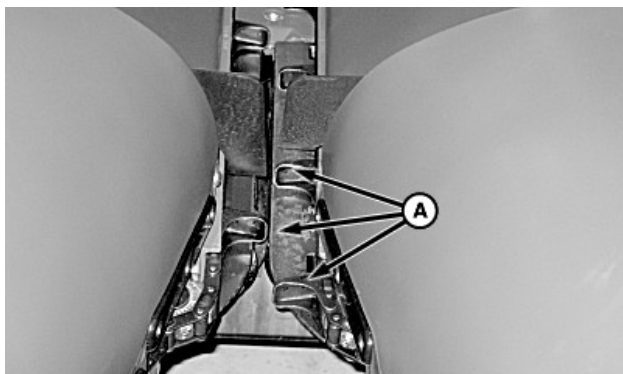


BML022285—UN—25OCT21

4. Remove chain from sprocket (F) and rotate chain until lugs (G) are opposite from each other.
5. Insert screw (D) into nut (E) and tighten screw until there is a 4.8 mm (3/16 in) maximum space between spacer tube (H) and washer (I).
6. Tighten nut (B) against idler assembly.

KP318TH,000003D-19-08NOV21

Adjusting Gatherer Chain Lugs



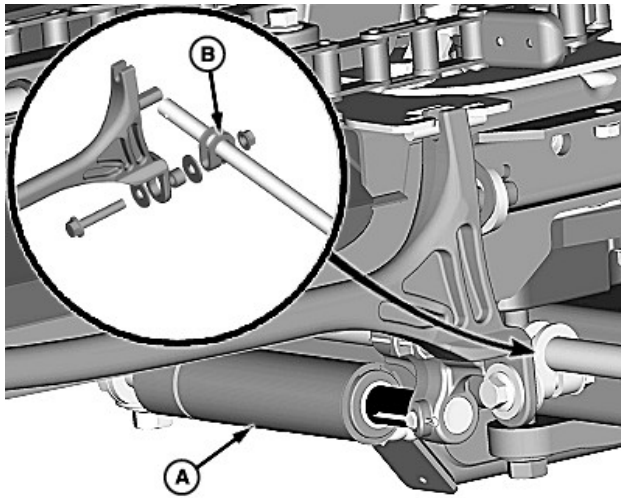
H89420—UN—01AUG07

The gatherer chains are assembled in the factory with the chain lugs (A) staggered between one another.

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

1. Remove center shield.

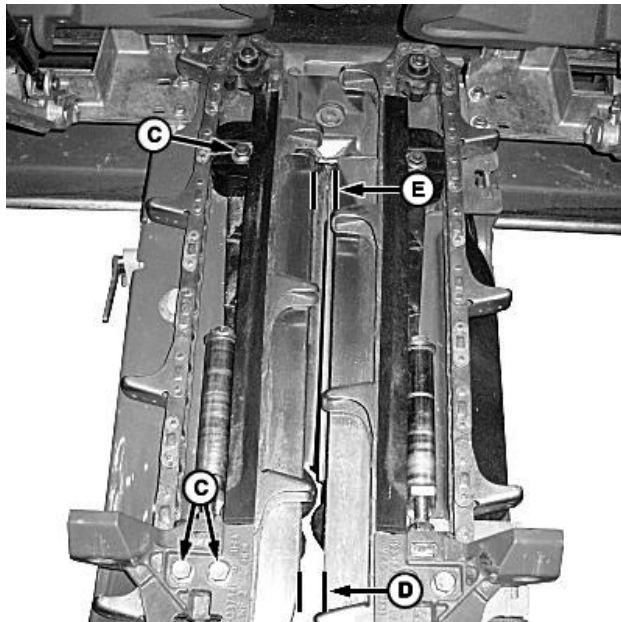
Adjusting Deck Plates



H90238—UN—14JAN09

NOTE: Deck plates are factory adjusted.

1. Adjust deck plates in closed position (cylinder (A) extended). Check if left-hand side deck plates are in closed position and readjust and tighten clamp, if necessary.
2. Clamp (B) must be closed and secure connecting rod when screws are tightened. Install pivot arms to other row units.



BML022286—UN—25OCT21

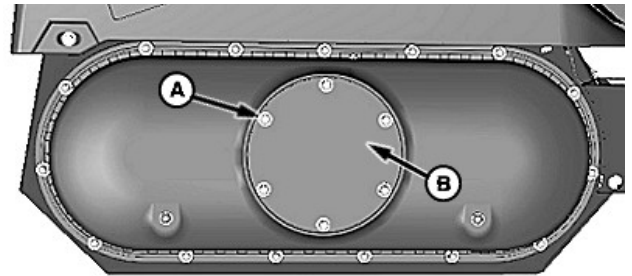
3. Loosen screws (C) that attach right-hand side deck plate to row unit frame.
4. Adjust front spacing (D) to 18 mm (23/32 in) and rear spacing (E) to 20 mm (25/32 in).
5. Tighten screws (C) to specifications.

Specification

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

KP318TH,000003E-19-08NOV21

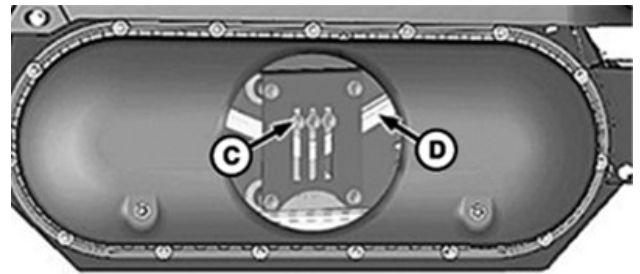
Adjusting Row Unit Drive Chain



H88819—UN—14JAN09

Remove screws (A) and cover (B).

IMPORTANT: Prevent damage to the machine. An overtightened chain causes undue chain wear. The row unit chain is a continuous chain without a connector link.



BML022290—UN—25OCT21

Adjust the drive chain (D) tightener (C). Lower chain strand has a play in chain with movement of 10 mm (3/8 in) up and 10 mm (3/8 in) down. Tighten screws to specification.

Specification

Tightener Screws—Torque. 90 N·m
(66 lb·ft)

Reinstall cover with retained screws.

KP318TH,0000041-19-01DEC21

Spacing between Rows

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
605C	4100 (161)	80 (31)	4377 (172)	1647 (3631)
605C	4100 (161)	90 (35)	4377 (172)	1755 (3869)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
606C	4100 (161)	70 (27)	4377 (172)	1811 (3992)
606C	4550 (179)	80 (31)	4827 (190)	1940 (4276)
606C	5000 (196)	90 (35)	5277 (207)	2069 (4561)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
607C	4100 (161)	60 (23)	4377 (172)	1932 (4259)
607C	5000 (196)	70 (27)	5277 (207)	2082 (4590)
607C	5450 (214)	80 (31)	5727 (225)	2233 (4922)
607C	5900 (239)	90 (35)	6177 (243)	2383 (5253)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
608C	4100 (161)	50 (19)	4377 (172)	2009 (4429)
608C	5000 (196)	60 (23)	5277 (207)	2181 (4808)
608C	5450 (214)	70 (27)	5727 (225)	2353 (5187)
608C	6100 (240)	80 (31)	6177 (243)	2525 (5566)
608C	6800 (267)	90 (35)	7077 (278)	2697 (5945)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
609C	4100 (161)	45 (17)	4377 (172)	2140 (4717)
609C	4550 (179)	50 (19)	4827 (190)	2237 (4931)
609C	5450 (214)	60 (23)	5727 (225)	2430 (5357)
609C	6100 (240)	70 (27)	6177 (243)	2624 (5784)
609C	7100 (279)	80 (31)	7377 (290)	2817 (6210)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
610C	4550 (179)	45.0 (17)	4827 (190)	2357 (5196)
610C	5000 (196)	50.0 (19)	5727 (225)	2465 (5434)
610C	5220 (205)	52.5 (21)	5497 (216)	2518 (5551)
610C	5900 (239)	60.0 (23)	6177 (243)	2680 (5908)
610C	6800 (267)	70.0 (27)	7077 (278)	2895 (6382)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
611C	5000 (196)	45.0 (17)	5277 (207)	2574 (5674)
611C	5900 (239)	52.5 (21)	6177 (243)	2751 (6065)
611C	6800 (267)	60.0 (23)	7077 (278)	2944 (6490)
611C	7650 (301)	70.0 (27)	7927 (312)	3165 (6978)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
612C	5450 (214)	45.0 (17)	5727 (225)	2792 (6155)
612C	6100 (240)	50.0 (19)	6377 (251)	2921 (6439)
612C	6350 (250)	52.5 (21)	6627(260)	2986 (6583)
612C	7100 (279)	60.0 (23)	7377 (290)	3179 (7008)
612C	8380 (329)	70.0 (27)	8657 (340)	3437 (7577)

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
613C	5900 (232)	45.0 (17)	6177 (243)	3009 (6634)
613C	6800 (267)	52.5 (21)	7077 (278)	3219 (7096)

Model	Chassis mm (in)	Row spacing cm (in)	Width mm (in)	Weight kg (lbs)
614C	6350 (250)	45.0 (17)	6627 (260)	3226 (7112)
614C	7100 (279)	50.0 (19)	7377 (290)	3377 (7445)
614C	7320 (288)	52.5 (21)	7597 (299)	3452 (7610)

Adjustments

Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
615C	6800 (267)	45.0 (17)	7077 (278)	3443 (7591)
615C	7650 (301)	50.0 (19)	7927 (312)	3604 (7945)

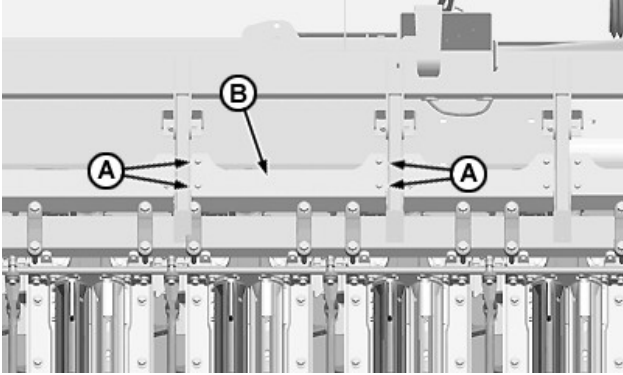
Model	Chassis mm (in)	Row Spacing cm (in)	Width mm (in)	Weight kg (lbs)
616C	8380 (330)	52.5 (21)	8657 (340)	3668 (8087)

Model	Chassis (mm)	Row Spacing (cm)	Width (mm)	Weight (kg)
617	7770 (306)	45.0 (17)	8047 (316)	3878 (8550)

KP318TH,000003F-19-09JAN24

Adjusting Row Spacing

IMPORTANT: To carry out row spacing modification, it is necessary to purchase some parts. Contact your John Deere dealership.

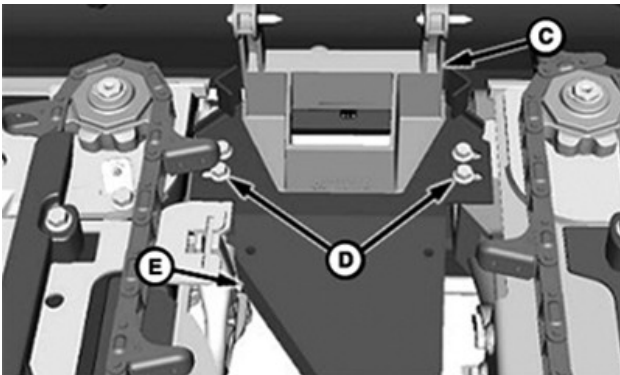


CQ289520—UN—18JUL11

1. Remove and retain attaching screw (A) and row unit drive shield (B).

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

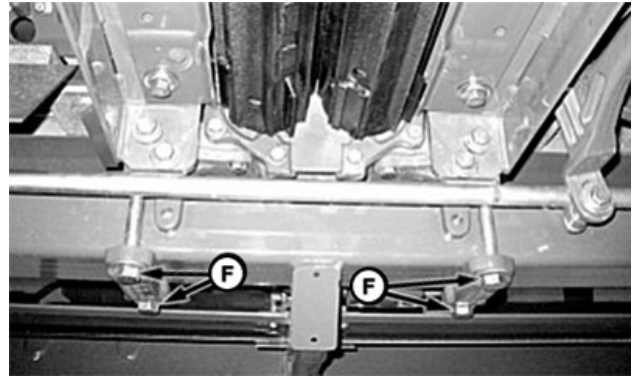
2. Remove shields and gatherer points. (For information about this procedure, see Raising and Inclining Points and End Fenders in Header Operation section).
3. To remove remaining shields, repeat previous steps.



BML022288—UN—25OCT21

4. Remove screws (D), shield (E), and support (C).

NOTE: To move row units to required location, use appropriate lifting devices to suspend and support lower part of row unit skid plates, maintaining weight of unit on main frame.

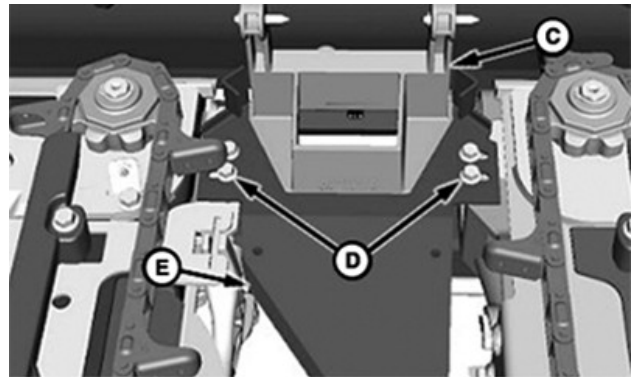


BML022289—UN—25OCT21

5. Loosen screws (F) of the two central row units. To correct row spacing, move the two row units to an equal distance. Then, move next external row unit. Loosen screws and move the row unit to required spacing and continue until all row units are at correct spacing. Tighten row unit attaching screws to specification.

Specification

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



BML022288—UN—25OCT21

6. Position row unit shield and gatherer shield support at required spacing and reinstall screws (D) to shield (E) and gatherer shield support (C).

Specification

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

7. Reinstall shields and points to row units.
8. Connect sensor harness (if equipped) and push connector into plate cover opening. Secure wiring harness at yellow stripes on harness to assure the correct play of raising points.
9. Reinstall row unit drive shield.

KP318TH,0000040-19-01DEC21

Adjusting Row Unit Drive Sprockets (Only for Fixed Speed Drive)

- **Headers with 4100 to 4550 mm (161 to 179 in) chassis width** are driven from left-hand side, using by default 30-tooth drive sprockets and 33-tooth driven sprockets.
- **Headers with more than 5000 mm (197 in) chassis width** are driven from left-hand side, using by default 30-tooth drive sprockets and 33-tooth driven sprockets.

IMPORTANT: These sprockets **MUST NOT** be modified on combines with variable speed drive.

Alterations of corn header sprockets with a variable speed feeder house result in excessive speed of corn header and damage to the machine. Front driven shaft **MUST NEVER** exceeds 715 rpm.

1. Drain oil and remove pan. (See REMOVING/INSTALLING OIL AND PAN in Servicing section.)
2. Loosen and remove transmission chain.
3. Remove and install drive sprockets as necessary.
4. Install transmission chain and adjust tension properly. (See ADJUSTING ROW UNIT DRIVE CHAIN Adjustments section.)
5. Install oil pan.
6. Add lubricant to the proper level. (See REMOVING AND INSTALLING OIL AND OIL PAN, in Servicing Section).
7. Repeat procedure on double drive headers.

IMPORTANT: For headers with double drive (driven at both sides), sprockets **MUST** have same setting on both sides.

Combines

NOTE: Recommended ground speed in chart is based on average field conditions. Conditions during operation differ, requiring other sprocket settings.

When operating at higher speeds, install smaller sprockets to driven shaft and greater sprockets to driveshaft.

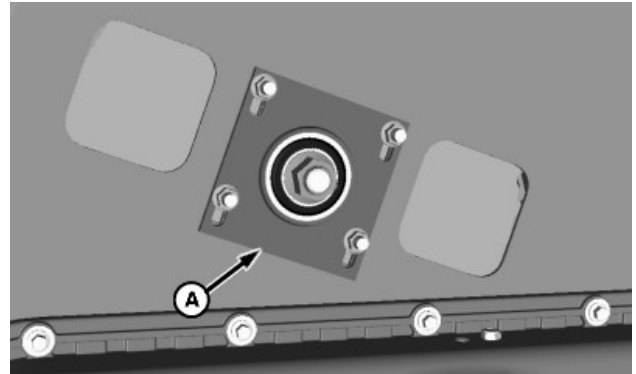
Recommended Ground Speeds x Sprocket Setting		
Recommended Speeds	Drive Sprocket	Driven Sprocket
7 km/h (4 mph) or Less	30-Tooth	33-Tooth

Recommended Ground Speeds x Sprocket Setting		
Above 7 km/h (4 mph)	33-Tooth	30-Tooth

KP318TH,0000042-19-01DEC21

Adjusting Auger

CAUTION: Keep safety shields in place.



H88528—UN—18MAY07

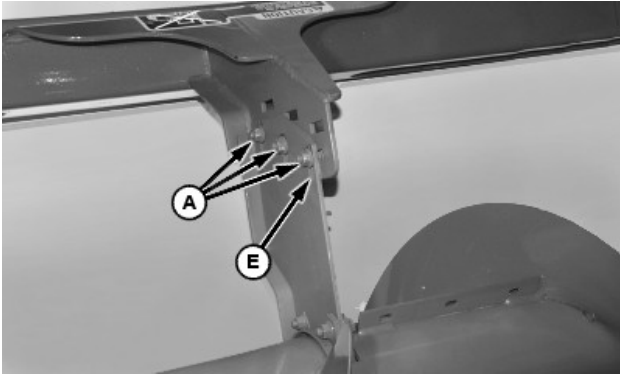
1. Both sides of corn header main frame and auger bearing supports (A) are slotted for adjusting auger. Auger can be adjusted up and down for clearance between auger fins and the floor.
2. Keep auger adjusted downward for most conditions. Raise auger to avoid damage to popcorn and normal corn ears.
3. In normal conditions, ensure a minimum clearance of 6 mm (0.24 in) between auger and lower stripper of adjustable auger.
4. In normal conditions, ensure a minimum clearance of 32 mm (1.26 in)¹ between auger fins and lower part of the floor.
5. In order to raise the auger 76 mm (3 in) from ground (for normal corn), bearing supports may be removed and auger raised to install screws to upper slotted holes at each side.

KP318TH,0000043-19-10NOV21

¹ This measure varies according to auger variations.

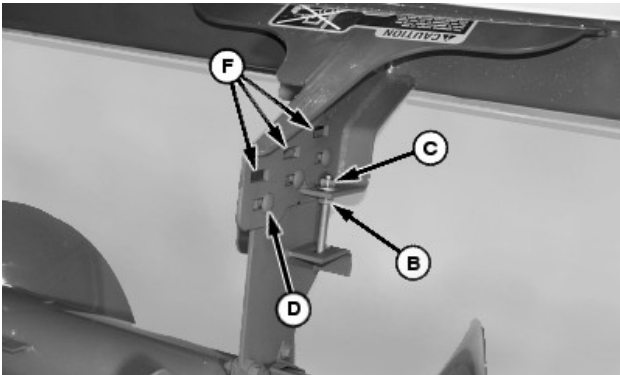
12-Row Auger Adjustment

Adjust auger height and fore/aft position as follows:



CQ281125—UN—11JUN08

1. Loosen three flange nuts (A).



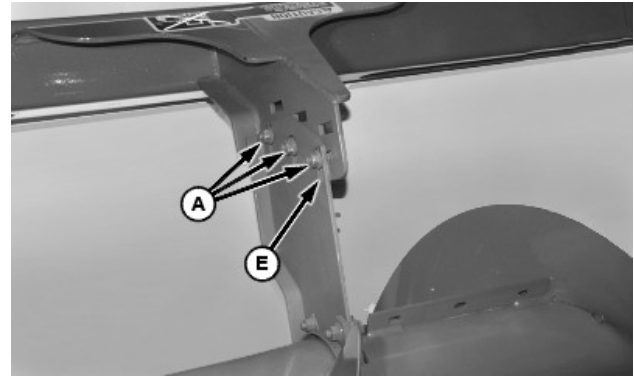
CQ281126—UN—11JUN08

2. Loosen nut (B).
3. To move auger up or down, adjust nut (C).
4. Move auger fore/aft as necessary according to requirements.

IMPORTANT: There must be a 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—Play.	22 mm (7/8 in)
Auger Flighting and Stripper—Play.	6 mm (1/4 in)



CQ281125—UN—11JUN08

5. If raising auger 76 mm (3 in) off the floor for use on food corn, remove carriage screws (D) and raise auger to align holes (E) with top holes (F). Install screws and secure with nuts.
6. Tighten all nuts to specification.

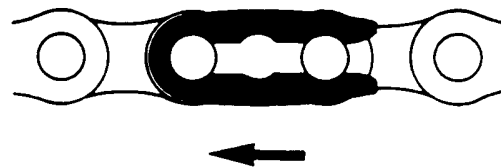
Specification

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

7. Install auger shield and tighten nuts.

KP318TH,0000044-19-10NOV21

Coupling the Chain



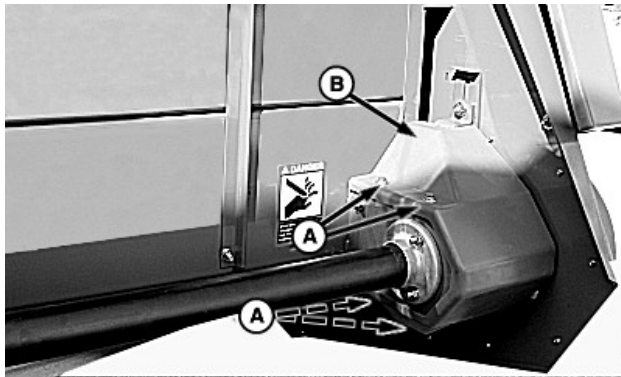
H41470

H41470—UN—28NOV89

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

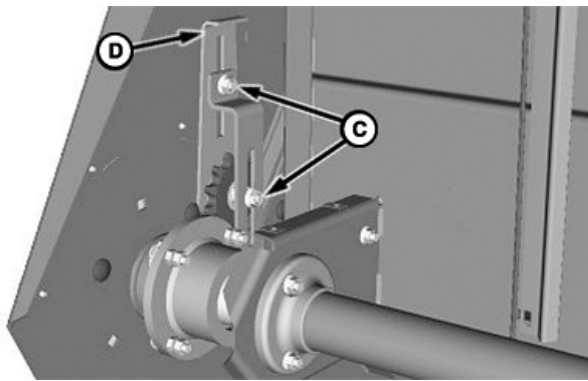
KP318TH,0000045-19-01DEC21

Adjusting the Auger Drive Chain



CQ281127—UN—11JUN08

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



BML022291—UN—25OCT21

2. Slacken off nuts (C). To adjust chain tension, push adjusting plate (D).
3. Tighten nuts (C) to specification.

Specification

Nuts (C)—Torque. 90 N·m
(66 lb·ft)

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

KP318TH,0000046-19-10NOV21

Adjustments

Check Ballasting: 1175, 1450, 1470, 1550 and 1570 Combines

Depending on corn header chassis size and type of tire used on the combine, it is necessary to use ballast in

rear combine tires. Charts indicate corn headers compatible with John Deere combines and which tires must be ballasted.

Combine Model			1175		1450 and 1470				1550 and 1570	
Tires			23.1-30 12PR R1	28.1-26 14PR R1	18.4-38 10PR R1 Dual	23.1-30 12PR R1	24.5-32 12PR R1	28.1-26 14PR R1	18.4-38 10PR R1 Dual	30.5-32 14PR R1
Chassis mm (in)	Rows	Spacing cm (in)								
4100 (161)	9	45.0 (18)	-	-	-	-	YES	YES	-	-
4100 (161)	8	50.0 (20)	NO	NO	-	-	NO	NO	-	-
4100 (161)	7	60.0 (24)	NO	NO	-	-	NO	NO	-	NO
4100 (161)	6	70.0 (28)	NO	NO	-	NO	NO	NO	-	NO
4100 (161)	5	80.0 (31)	NO	NO	-	NO	NO	NO	-	NO
4100 (161)	5	90.0 (35)	NO	NO	-	NO	NO	NO	-	NO
4550 (179)	10	45.0 (18)	-	-	-	-	YES	-	-	YES
4550 (179)	9	50.0 (20)	-	-	-	-	YES	-	-	YES
4550 (179)	6	80.0 (31)	NO	NO	-	-	NO	NO	-	NO
5000 (197)	11	45.0 (18)	-	-	-	-	YES	-	-	YES
5000 (197)	10	50.0 (20)	-	-	-	-	YES	-	-	YES
5000 (197)	8	60.0 (24)	-	-	-	-	YES	YES	-	NO
5000 (197)	7	70.0 (28)	-	-	-	-	NO	NO	-	NO
5000 (197)	6	90.0 (35)	NO	NO	NO	-	NO	NO	NO	NO
5220 (206)	10	52.5 (21)	-	-	-	-	YES	-	-	YES
5450 (215)	12	45.0 (18)	-	-	-	-	-	-	-	-
5450 (215)	9	60.0 (24)	-	-	YES	-	YES	-	YES	YES
5450 (215)	8	70.0 (28)	-	-	YES	-	YES	-	YES	YES
5450 (215)	7	80.0 (31)	-	-	YES	-	YES	YES	YES	YES
5900 (232)	13	45.0 (18)	-	-	-	-	-	-	-	-
5900 (232)	11	52.5 (21)	-	-	-	-	-	-	-	-
5900 (232)	10	60.0 (24)	-	-	-	-	-	-	-	-
5900 (232)	7	90.0 (35)	-	-	-	-	-	-	-	-
6100 (240)	12	50.0 (20)	-	-	-	-	-	-	-	-
6100 (240)	9	70.0 (28)	-	-	-	-	-	-	-	-
6100 (240)	8	80.0 (31)	-	-	-	-	-	-	-	-
6350 (250)	14	45.0 (18)	-	-	-	-	-	-	-	-
6350 (250)	12	52.5 (21)	-	-	-	-	-	-	-	-
6800 (268)	13	52.5 (21)	-	-	-	-	-	-	-	-
6800 (268)	11	60.0 (24)	-	-	-	-	-	-	-	-
6800 (268)	10	70.0 (28)	-	-	-	-	-	-	-	-
6800 (268)	8	90.0 (35)	-	-	-	-	-	-	-	-
7100 (280)	12	60.0 (24)	-	-	-	-	-	-	-	-
7100 (280)	9	80.0 (31)	-	-	-	-	-	-	-	-
7650 (301)	11	70.0 (28)	-	-	-	-	-	-	-	-

KP318TH,0000047-19-10NOV21

Adjustments

Check Ballasting: 9570 STS, 9650 STS and 9750 STS Combines

Depending on, corn header chassis size and type of tire used on combine it is necessary to use ballast in rear

combine tires. Charts indicate corn headers compatible with John Deere combines and which tires must be ballasted.

Combine Model			9570 STS			9650 and 9750 STS		
Tires			800/65R32 (172A8) R1W	30.5L-32 14PR R1 - Bias ply	20.8-38 10PR R1 Rigde Duals	20.8-38 10PR R1 Dual	20.8-R42 R1 Radial	800/65 R32 Radial
Chassis mm (in)	Rows	Spacing cm (in)						
4100 (161)	9	45.0 (18)	YES	YES	-	-	-	-
4100 (161)	8	50.0 (20)	YES	YES	-	-	-	-
4100 (161)	7	60.0 (24)	YES	YES	-	-	-	-
4100 (161)	6	70.0 (28)	NO	NO	-	-	-	-
4100 (161)	5	80.0 (31)	NO	NO	-	-	-	-
4100 (161)	5	90.0 (35)	NO	NO	-	-	-	-
4550 (179)	10	45.0 (18)	YES	YES	-	-	-	-
4550 (179)	9	50.0 (20)	YES	YES	-	-	-	-
4550 (179)	6	80.0 (31)	YES	YES	YES	-	-	-
5000 (197)	11	45.0 (18)	YES	-	YES	-	-	-
5000 (197)	10	50.0 (20)	YES	-	YES	-	-	-
5000 (197)	8	60.0 (24)	YES	YES	YES	-	-	-
5000 (197)	7	70.0 (28)	YES	YES	YES	-	-	-
5000 (197)	6	90.0 (35)	YES	YES	YES	-	-	-
5220 (206)	10	52.5 (21)	YES	-	YES	-	-	-
5450 (215)	12	45.0 (18)	YES	-	YES	-	-	-
5450 (215)	9	60.0 (24)	YES	-	YES	-	-	-
5450 (215)	8	70.0 (28)	YES	YES	YES	-	-	-
5450 (215)	7	80.0 (31)	YES	YES	YES	-	-	-
5900 (232)	13	45.0 (18)	-	-	-	YES	YES	YES
5900 (232)	11	52.5 (21)	YES	-	YES	YES	YES	YES
5900 (232)	10	60.0 (24)	YES	-	YES	YES	YES	YES
5900 (232)	7	90.0 (35)	YES	YES	YES	YES	YES	YES
6100 (240)	12	50.0 (20)	-	-	-	YES	YES	YES
6100 (240)	9	70.0 (28)	YES	-	YES	YES	YES	YES
6100 (240)	8	80.0 (31)	YES	-	YES	YES	YES	YES
6350 (250)	14	45.0 (18)	-	-	-	YES	YES	YES
6350 (250)	12	52.5 (21)	-	-	-	YES	YES	YES
6800 (268)	13	52.5 (21)	-	-	-	YES	YES	YES
6800 (268)	11	60.0 (24)	-	-	-	YES	YES	YES
6800 (268)	10	70.0 (28)	-	-	-	YES	YES	YES
6800 (268)	8	90.0 (35)	YES	-	YES	YES	YES	YES
7100 (280)	12	60.0 (24)	-	-	-	YES	YES	YES
7100 (280)	9	80.0 (31)	YES	-	YES	YES	YES	YES
7650 (301)	11	70.0 (28)	-	-	-	YES	YES	YES

KP318TH,0000048-19-10NOV21

Check Ballasting: S550, S660, S670, and S680 Combines

NOTE: Consult Engaging Ground Travel and Rear Axle section in combine Operator's Manual for detailed information about ballasting requirements.

exposed, which may cause corrosion. Tires with inner tires can be filled at any level below 90%.

KP318TH,000004A-19-01DEC21

KP318TH,0000049-19-10NOV21

Ballast Tires

CAUTION: Installation of liquid ballast requires special equipment and training.

IMPORTANT: Completely coat the rim with a corrosion proof solution, but **NEVER** fill any tire with more than 90% of its capacity. More solution leaves little space for the air to absorb shocks, causing damage to the tire.



H65625—UN—09JAN01

1. Raise tire from ground.
2. Turn the tire valve to top position according to the image.
3. Lower the tire until it lightly touches the ground (little deformation).
4. Remove the valve and empty the tire.
5. Fill the tire with water until it comes through the valve.
6. Assemble the valve and calibrate it according to specification.

A solution of water and calcium chloride offers a safe and economic ballasting. When properly used, it does not damage the tires, inner tires, or rims.

To prevent water from freezing, use calcium chloride. A mixture of 1.6 kg (3-1/2 lb) of calcium chloride per 3.8 L (1 gal) does not freeze above -45°C (-50°F).

NOTE: It is not recommended using alcohol as liquid ballasting. Calcium chloride solution is heavier and more economic.

Fill the tires without inner tires at least to the valve level (75% full minimum). Little solution leaves part of the rim

Lubricating

Corn Head Grease

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

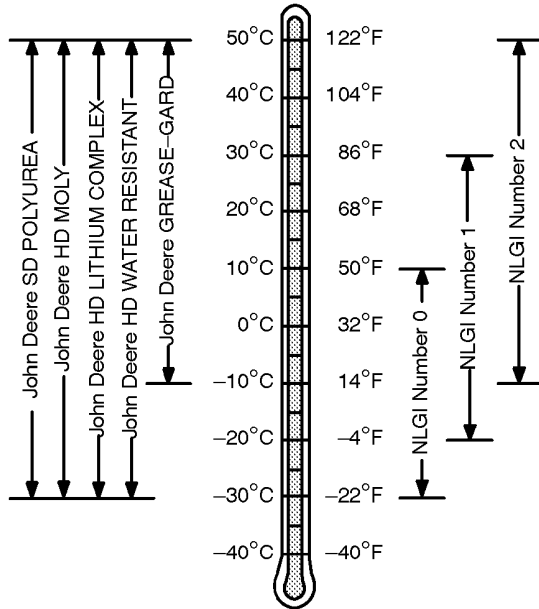
You may also use SAE Multipurpose Grease with Extreme Pressure (EP) Performance and meeting NLGI Consistency Number 0.

CRNHD,90LU,D-19-14AUG97

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

AG,OUO1035,1175-19-26OCT99

Grease



TS1667—UN—30JUN99

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

The following grease is recommended:

- John Deere SD POLYUREA GREASE (TY6341)

Other greases may be used if they meet the following:

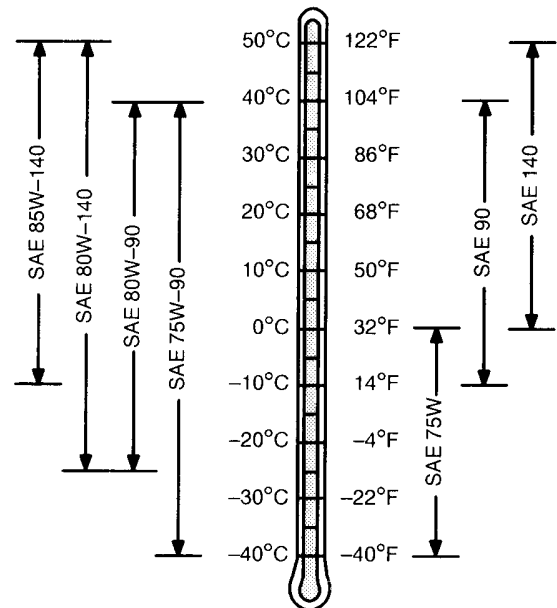
- NLGI Performance Classification GC-LB

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

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

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

Gear Oil



TS1653—UN—14MAR96

Use an oil viscosity suitable for the expected air temperature range during the period between oil changes.

The following oils are preferred:

- John Deere EXTREME-GARD™
- John Deere GL-5 GEAR LUBRICANT

Other oils may be used if they meet the API GL-5 service classification.

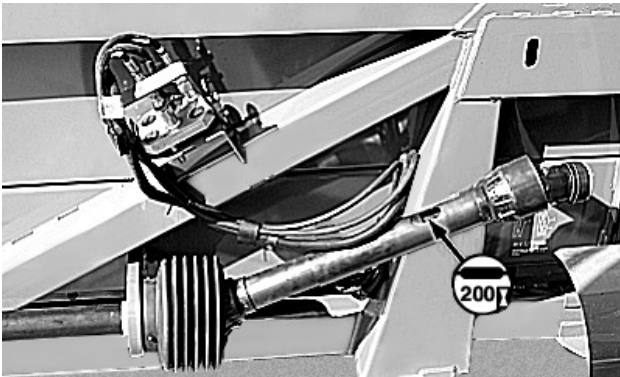
DX,GEOIL-19-31MAY07

EXTREME-GARD is a registered trademark of the Deere & Company.

Lubrication and Service

Driveshaft Identification Type

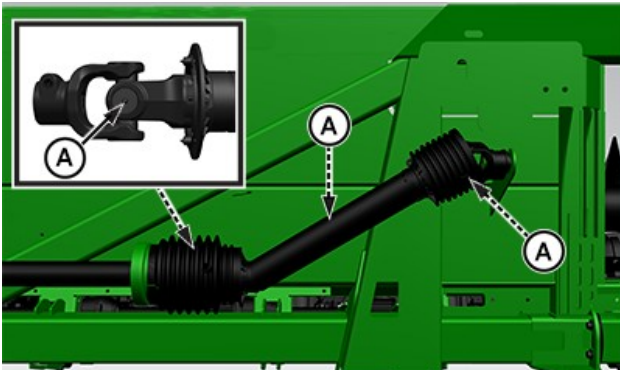
Type A



CQ281133—UN—11JUN08

Driveshaft with only one lubrication point in the center.

Type B



CQ1362610—UN—22MAR24

A—Grease Fitting (A)

Driveshaft type B has three different lubrication points, the central grease fitting (A) and the U-Joints.

a48umh1,1711113632636-19-22MAR24

Lubrication Symbols

Perform the following steps before lubricating:

1. Turn off engine.
2. Remove ignition key.
3. Set safety stops.

CAUTION: Never lubricate or service the corn header while combine engine is running.

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

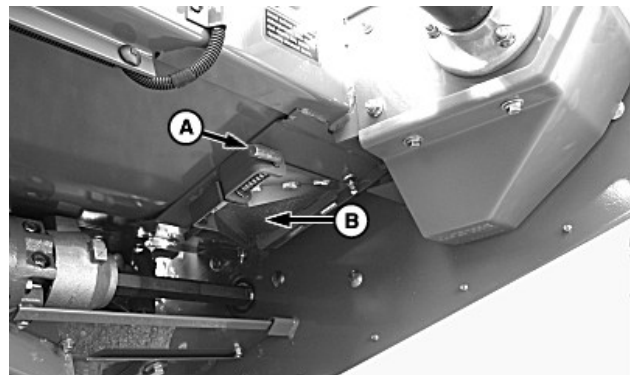
 Lubricate with John Deere SAE 30 oil or a heavier oil at hourly intervals indicated on the symbols.

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

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

Q7P4ZQ4,000013E-19-11NOV21

Auger Floor Clean Out Door

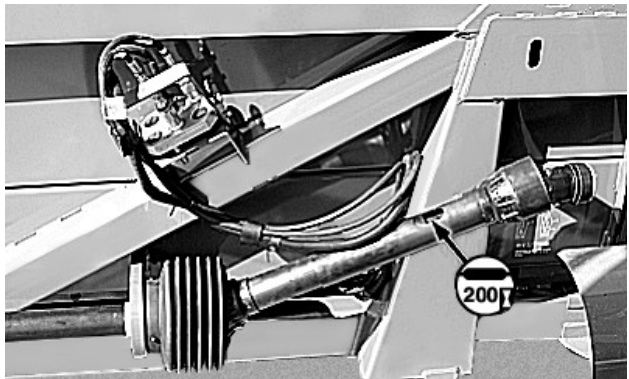


H89356—UN—31JUL07

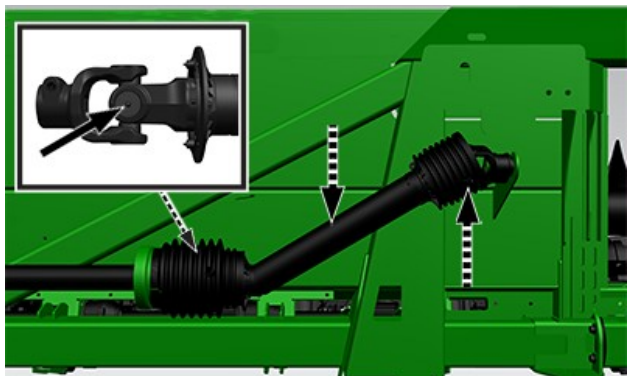
1. Release latch (A) and open cleanout door (B).
2. Clean auger floor using cleanout door (B) on both sides of corn header.
3. Make sure that cleanout door (B) is fully latched before moving machine.

Q7P4ZQ4,000013F-19-10NOV21

Annually or Every 200 Hours of Operation



Header Transmission Shaft—Type A



Header Transmission Shaft—Type B

1. Lubricate header transmission shafts. To access grease fittings, rotate shields as necessary.

NOTE: The lubrication process in type A is carried out only at the central point. In type B, the lubrication process is carried out at three different points, in the central grease fitting and in the U-Joints.

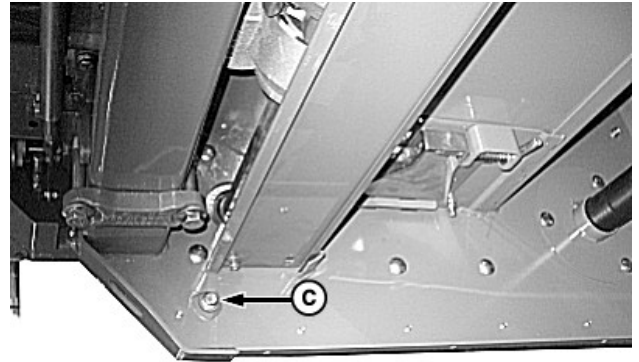
2. Inspect and adjust the following:

- Row Unit Drive Chain
- Auger Drive Chain
- Row Unit Gatherer Drive Chains

NOTE: See Adjustments section for procedures.

IMPORTANT: To prevent excessive chain wear, keep oil level to specification.

3. To change drive chain oil on both sides of the header, observe the following instructions:
 - a. Raise header and engage safety stop.
 - b. Operate header to warm up oil before draining.



H89619—UN—14JAN09

- c. Remove plug (C) and lower header to drain oil.
- d. Raise header and engage safety stop.
- e. Install plug (C).
- f. Lower header on a plain and level surface, remove access door (B) and control plug (A).



CQ281128—UN—11JUN08

- g. Add SAE 80/90 Gear Lube through access door (B) until reaching level below control plug (A).

Specification

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

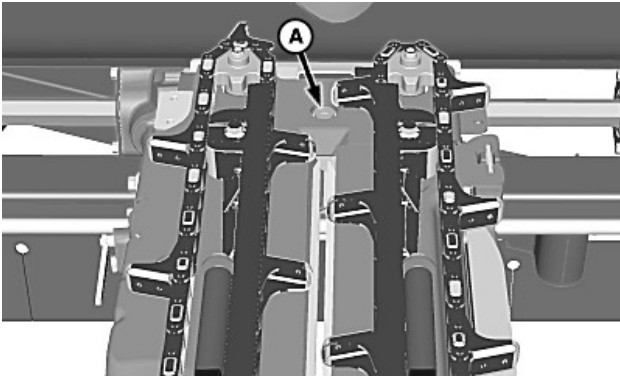
- h. Install access door (B) and control plug (A).

a48umh1,1711104561243-19-25MAR24

Checking Row Unit Gear Case Oil—Every 200 Hours of Operation

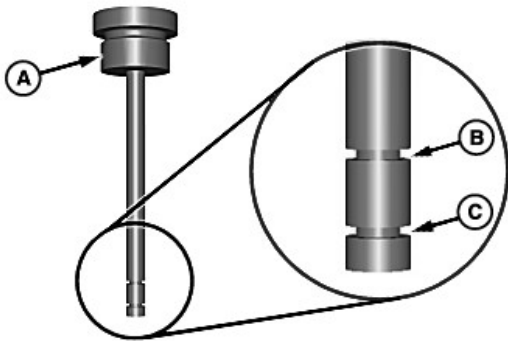
NOTE: For precise dipstick readings, row unit gear case oil must be warm and header raised.

1. To warm up row unit lubricant, operate header.
2. Raise header completely and lower safety stop.
3. Set park brake, shut OFF engine and remove the ignition key.



H96320—UN—17NOV10

4. Clean area around inspection dipstick/reservoir (A) to prevent dirt and debris from entering the gear case.
5. Remove and clean dipstick.
6. Completely insert dipstick into gear case, remove again, and observe oil level mark.



H100565—UN—03MAR11

7. If oil level is below full mark (B), add TY6296 80W 90 GL-5 lubricant through reservoir (A) until lubricant level reaches full mark (B).

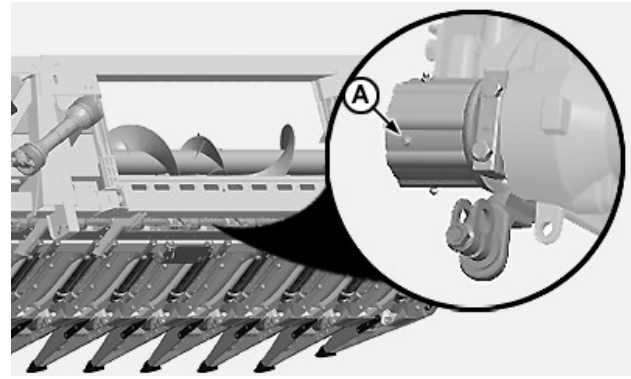
IMPORTANT: Do not overfill gear case. 0.42 L (14.20 fl oz) of lubricant is necessary to fill gear case from minimum mark (C) to full mark (B). Lube quantity to be added at other levels is proportional.

Q7P4ZQ4,0000141-19-11NOV21

Lubricate Row Unit Clutches—Every 200 Hours of Operation

IMPORTANT: Each clutch has multiple grease fittings that facilitate lubrication. Just ONE grease fitting must be used to lubricate each clutch.

1. Raise header completely and lower safety stop.
2. Locate row unit clutch at lower side of header. Clutch is installed at left-hand side of the gear case.



CQ289521—UN—20JUL11

NOTE: Number of grease fittings on clutch varies according to machine model.

Add grease to clutch using only one of grease fittings (A).

4. Repeat procedure on all remaining row units.

h3ymaet,1660670586171-19-16AUG22

Every 1000 Hours of Operation

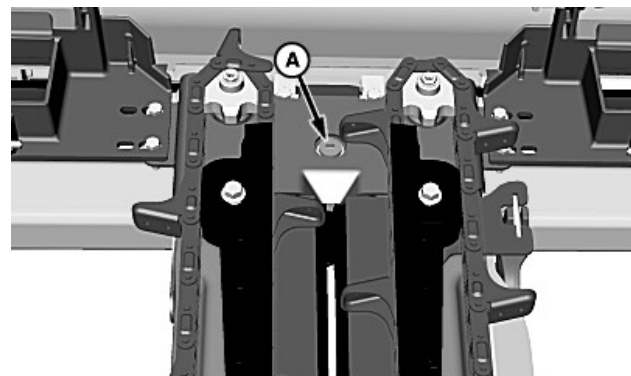
IMPORTANT: To avoid equipment damage and failure due to system contamination, always clean grease fittings before AND after lubrication.

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

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

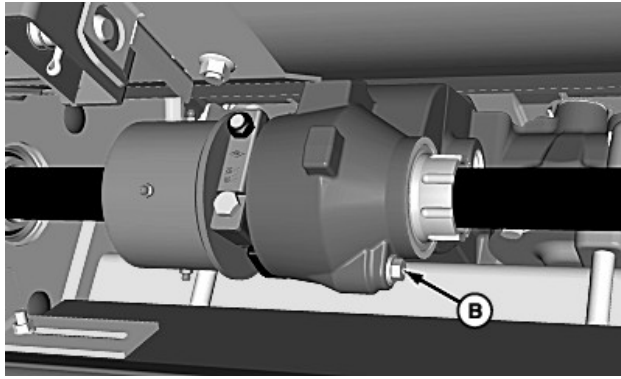
Always tighten plugs securely.

Replace Oil in Row Unit Gear Case

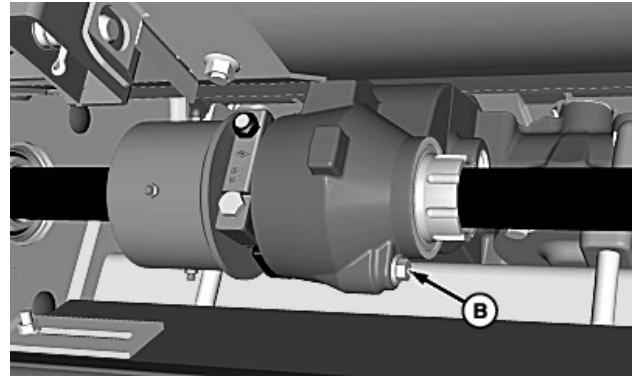


H103950—UN—09NOV11

Top View of Row Unit



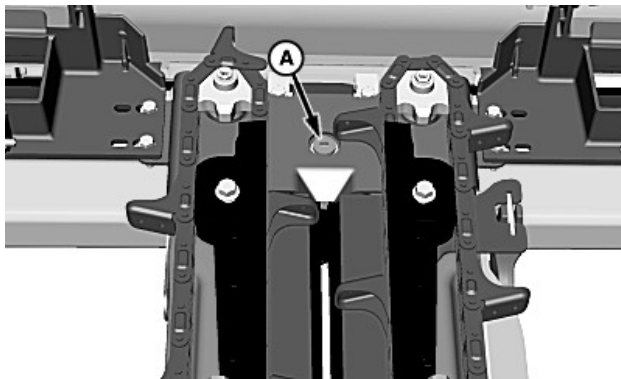
View from Below, Behind Row Unit



Bottom View, Behind Row Unit

NOTE: To drain and fill oil with header raised, row unit gear cases must be warm.

1. To warm row unit gear case oil, operate header.
2. Completely raise header and engage feeder house safety stop.
3. Shut OFF engine, set park brake, and remove ignition key.



Top View of Row Unit

4. To avoid dirt and debris from entering the gear case, clean area around inspection plug/dipstick (A).
5. Remove dipstick and clean it.

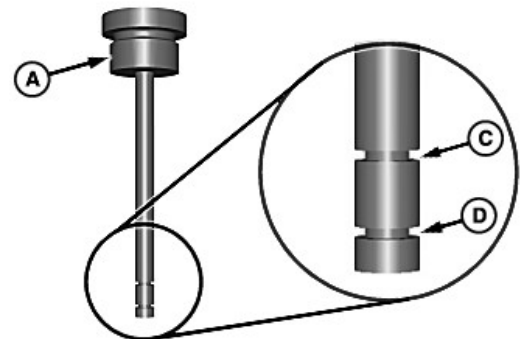
NOTE: Drain oil into a clean container and dispose of properly.

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

Specification

Tank—Capacity. 1.1 L
(1.16 qt)

9. Completely insert dipstick into gear case, remove, and observe fluid level on shaft.



H96322—UN—13MAY10

10. If level is below full mark (C), add oil as necessary.

IMPORTANT: Do not overfill gear case. 0.42 L (14.20 fl oz) of oil is required to raise the level from minimum mark (D) to full mark (C). The amount of oil to be added at other levels is proportional.

11. Reinstall dipstick.
12. Repeat procedure on remaining row unit gear cases.

Q7P4ZQ4,0000143-19-10NOV21

Troubleshooting

Troubleshooting

The majority of corn header operating problems can be traced to improper adjustment. The following troubleshooting chart helps you with problems develop by suggesting a probable cause and the recommended remedy. Make certain when you are trying to solve a problem, that the source does not come from some place other than where the problem exists.

Symptom	Problem	Solution
Loss of Ear Corn in the Field	Point tips set too high.	Adjust points so tips lightly touch ground when row unit skid plate is 25.4 mm (1 in) above ground. When picking low hanging ears, raise front tip of gatherer points and run corn header with the skids close to ground.
	Ground speed too fast or too slow.	Operate at a speed to meet field and ground conditions. Excessive ground speed can bend stalks forward and cause ears to fall off 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 at which gatherer chains help guide stalks into the rolls.
	Not picking planter rows.	Follow planted rows to minimize ear loss.
	Row units not centered on rows.	Adjust corn header row spacing to equal row spacing of corn in field.
	Ears sliding out over gatherer chains.	Use ear savers.
Ear Shelling at Stalk Rolls	Gatherer chain speed too fast or too slow.	Change speed of variable speed feeder house or increase ground speed.
	Deck plates not adjusted correctly.	Adjust deck plates. Reduce gap between deck plates.
	Machine operating too high.	Raise point tip and run lower.
Shelled Corn Coming Out of Combine Rear	Excessive trash intake from corn header.	Increase variable drive speed or fixed drive combine. Open deck plate spacing on corn header.
	Ears sliding out through the throat	Replace ear savers.

Troubleshooting

Symptom	Problem	Solution
Pulling up Corn Stalks	Deck plates set too close together.	Gradually open deck plates until stalks feed through rolls more freely.
	Driving 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 header higher.
	Corn too dry or down.	Remove ear savers.
	Worn stalk rolls.	Replace stalk rolls.
Plugging	Stalks breaking in stalk rolls or deck plates.	Adjust opening of deck plates. Check stalk roll timing so stalk roll flutes do not break stalks. Also be sure that deck plates are set equally and centered over center of rolls.
	Trash winds around stalk rolls.	Set trash knives closer to stalk rolls.
	Loose gathering chains.	Check gathering chain mechanism.
	Not picking planter rows.	To minimize ear loss, follow the rows.
	Material catching on sheet metal.	Check for broken or bent sheet metal. Remove rust and coat with TY6247 Slip-Plate Lubricant.
	Ground speed too fast, causing material to overrun corn header.	Operate at a speed to meet yield and ground conditions. Faster speeds cause plugging.
	Material not flowing on auger.	Check auger housing for obstructions and roughness. Check auger for a 22 mm (7/8 in) clearance between auger flight and floor. Check auger for a 6 mm (1/4 in) clearance between auger flighting and stripper.
	Corn stalks plugging in gatherer throat opening.	Remove ear savers.
	Worn stalk rolls.	Replace worn stalk rolls.
Loss of Ear Corn From Weakened or Broken Stalks. Problem is Caused by Disease (Stalk Rot) or Insects (Corn Borers)	Contact of stalk with ear savers.	Remove ear savers.
	Ground speed too fast.	Reduce ground speed.
	Feeder house speed incorrect.	Find the correct speed for your conditions by trying different feeder house speeds.

Troubleshooting

Symptom	Problem	Solution
	Stalks and ears badly “down” or “lodged”, or loose ears on the ground.	Synchronize gatherer chains so flights are opposite from each other.
	Worn stalk rolls.	Replace stalk rolls.

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ACTIVE HEADER CONTROL (AHC)

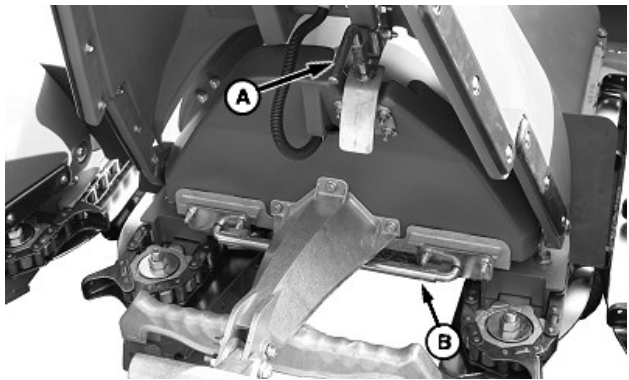
Symptom	Problem	Solution
AHC Does Not Operate	Manual raise or lower does not work.	See your John Deere dealer.
	AHC not enabled.	Enable the desired ACTIVE HEADER CONTROL mode in corner post display.
	Feeder house-to-header connector not connected or loose.	Connect properly.
	Header sensor damaged or not properly connected.	Connect or repair sensor.
AHC Lowers But Not Raises	Defective ACTIVE HEADER CONTROL relay or ACTIVE HEADER CONTROL card.	See your John Deere dealer.
AHC Raises But Not Lowers	Defective AHC relay or AHC card.	See your John Deere dealer.
	Control shaft restricted.	Check for restriction.
	Auto drop rate valve closed.	Adjust in-line valve.
System Cycles or Hunts	Incorrect drop rate adjustment.	Adjust in-line valve.
	Incorrect accumulator setting.	See your combine Operator's Manual.
System Fails Intermittently After Manually Raising Header Over Obstacle	System was de-activated.	To reactivate, press activation button in multi-function lever.
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.

Q7P4ZQ4,0000145-19-10NOV21

Servicing

Remove and Install Stalk Rolls

CAUTION: Completely raise header and lower safety stop before performing any work.

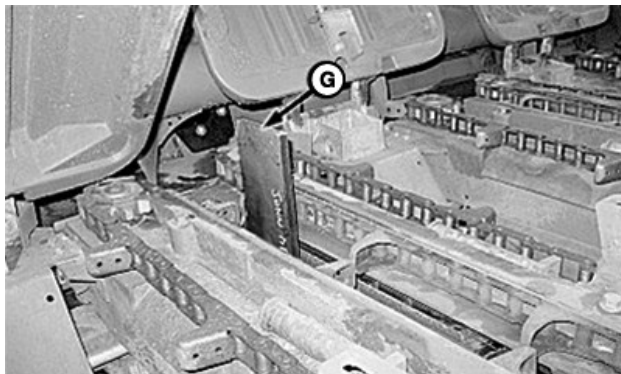


H89314—UN—20JUL07

1. Raise gatherer point until locking pin (A) engages.

IMPORTANT: Points may damage combine windshield. Do not push shields against rear part of frame.

2. Pull locking bar (B) and raise gatherer shield.
3. To access other row units, repeat as necessary.
4. Remove screws and washers (C) and rasp plates (D) at lower side of row unit assembly.

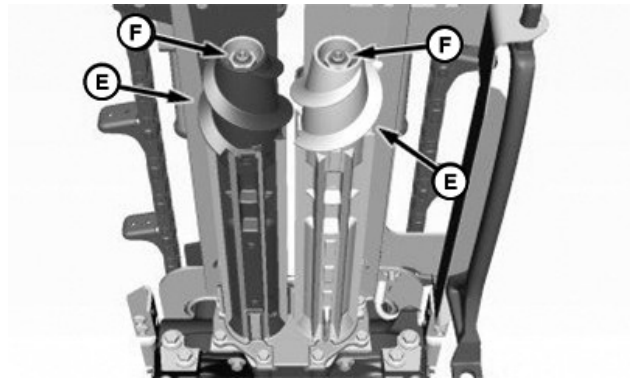


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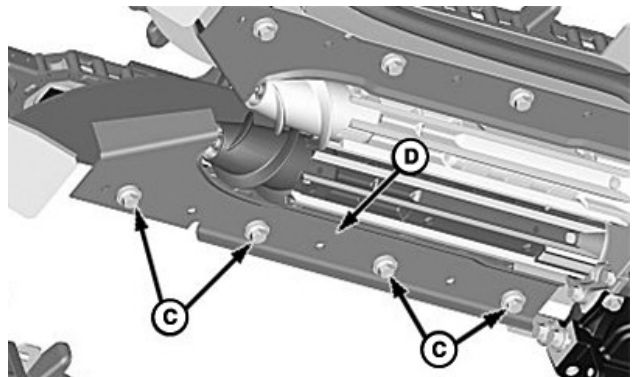
NOTE: To prevent stalk rolls (E) from rotating, use a 13 mm (1/2 in) steel plate between the rear part of stalk rolls.

When removing self-locking nut of the left-hand side, insert plate from upper side of row unit.

When removing self-locking nut of the right-hand side, insert plate from upper side of row unit.



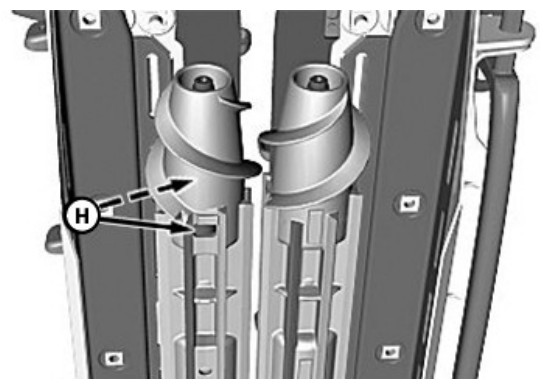
BML022293—UN—25OCT21



BML022292—UN—25OCT21

5. Remove and discard retaining nuts (F).
6. Remove and retain spherical washer located behind nut. Check if washer presents damage or corrosion, and replace as necessary.

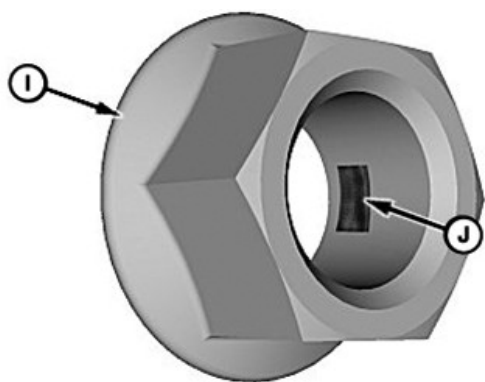
IMPORTANT: Trace alignment marks on stalk roll surface with its shaft before removing. Stalk rolls must be reinstalled at same position they were removed from.



BML022295—UN—25OCT21

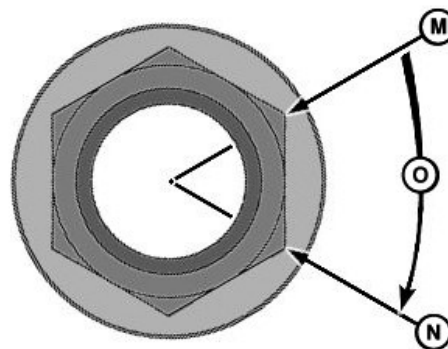
7. Locate the two flutes (H) behind stalk roll spiral. Remove stalk roll from shaft using a dual claw extractor on flutes(H).
8. Remove all dirt from thread, grooves, and shaft cone. To detect possible damage or wear, and replace as necessary, check stalk roll.

IMPORTANT: A new nut (I) must be purchased through John Deere Parts Service.

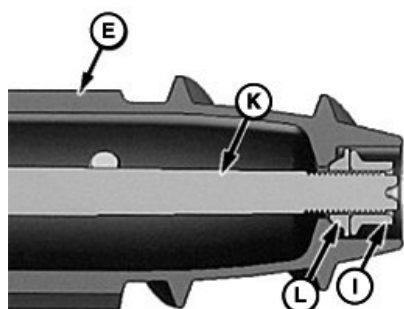


BML022296—UN—25OCT21

9. Retaining nut (I) contains a thread lock insert (J) and cannot be reused.



BML022298—UN—25OCT21



BML022297—UN—25OCT21

10. Using alignment marks placed on stalk roll surface and its shaft, install stalk rolls (E) simultaneously to shafts (K).

IMPORTANT: Plain side of washer MUST point towards outer side of stalk roll.

11. Install previously removed spherical washer (L) and a new retaining nut (I).

IMPORTANT: Avoid installing stalk rolls too loose. Follow tightening and turning procedures as described.

NOTE: To prevent stalk rolls from rotating, use a 13 mm (1/2 in) steel plate between the rear part of stalk rolls.

12. Tighten retaining nuts (I) to specification.

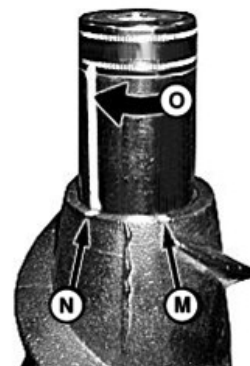
Specification

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

- a. Use a calibrated torque wrench to tighten nut to specification.

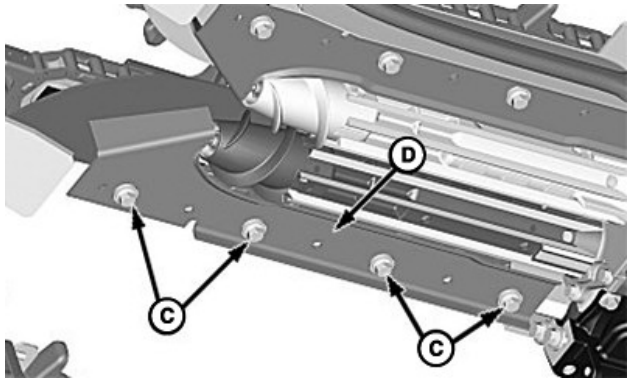


BML022299—UN—25OCT21



BML022300—UN—25OCT21

- Mark stalk roll at one of the retaining nut (M) edges.
- Mark stalk roll at next edge of nut (N) clockwise.
- Position wrench socket on retaining nut and extend first mark (M) on socket wall.
- Tighten nut (O) until socket mark aligns with second mark on stalk roll (N).
- Repeat on remaining stalk roll.



BML022292—UN—25OCT21

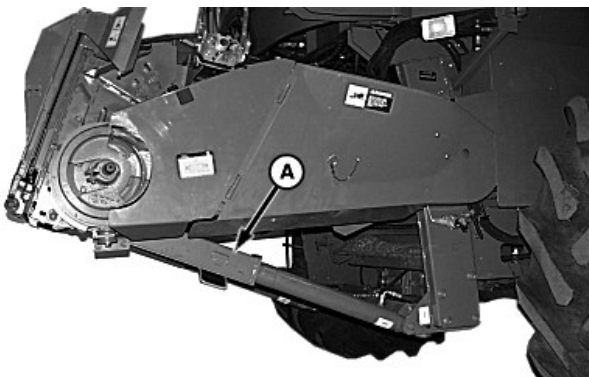
13. Install rasp plates (D) using screws and washers (C).
14. Adjust rasp plates. (See ADJUSTING RASP PLATE, in ADJUSTMENTS section).

KP318TH,000004C-19-11NOV21

Hydraulic Cylinder Safety Stop

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

1. Start engine, raise feeder house and completely extend feeder house to engage safety stop in safety position.



H70038—UN—19SEP01

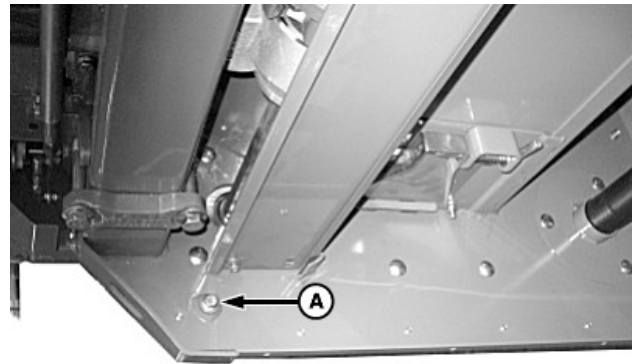
2. Disconnect chain from the support of the safety stop (A) or raise safety stop (A) from storage position and lower it on cylinder rod.

After finishing work on corn header, put the safety stop (A) in storage position.

KP318TH,000004B-19-10NOV21

Removing/Installing Oil and Oil Pan

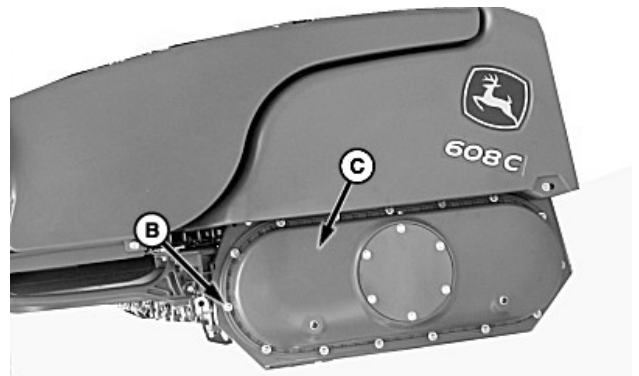
NOTE: To capture oil, place a pan under the drain plug (A). Dispose of oil properly and do not reuse.



H89238—UN—12JUL07

1. Remove drain plug (A).

IMPORTANT: Avoid damaging reusable seal at oil pan. Do not use sharp objects to apply force between oil pan and corn header.



H89240—UN—12JUL07

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

IMPORTANT: To ensure a good seal, clean the seal area on oil pan and corn header with a nonflammable cleaner.

NOTE: When attaching the oil pan with screws, start in center and move outward.

3. Reinstall drain plug (A) and attach it with screws and washers (B).



BML022301—UN—28OCT21

4. Remove filler plug (E) from cover (D).

IMPORTANT: Oil level must be checked with corn header on combine and row unit skid plates touching ground (at an approximate angle of 25 degrees).

NOTE: *Pan capacity:* 0.9 L (30 fl oz) 80/90 heavy gear oil or until level with bottom of plug.

5. Fill oil pan (C) with oil until level with bottom of plug (E).
6. Install cover (D).

KP318TH,000004F-19-11NOV21

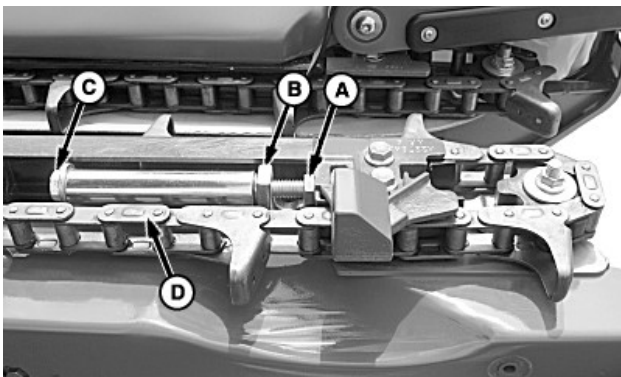
Remove and Install Gatherer Chain

Completely raise header, shut off engine, set park brake, remove ignition key, and lower safety stop before working under header.

If chain fails or is in bad condition replace it with a new chain.

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

CAUTION: Never service chain assembly components before nut (A) are tightened against leg of idler support (B).



H99117—UN—17NOV10

1. To release gatherer chain tension turn nut (A) until contacting leg of idler support (B).
2. To release remaining chain tension release screw (C), if necessary, to release remaining chain tension.
3. Remove gatherer chain (D).
4. Install gatherer chain (D) following reverse order of previous steps.

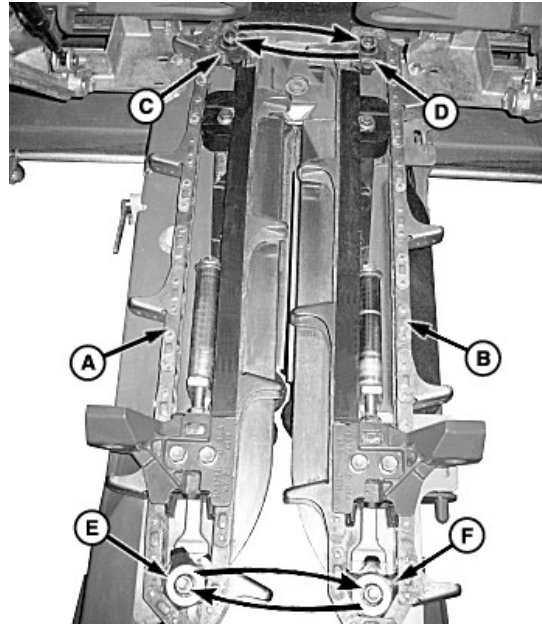
KP318TH,000004E-19-01DEC21

Reversing Gatherer Chains and Sprockets for Additional Usage

Gatherer chains and sprockets can be reversed for additional usage, and must be carried out for all row units at the same time.

1. To reverse gatherer chains and sprockets:

NOTE: To help with correct positioning for installation, mark each chain, sprocket, and the side that they were removed from..

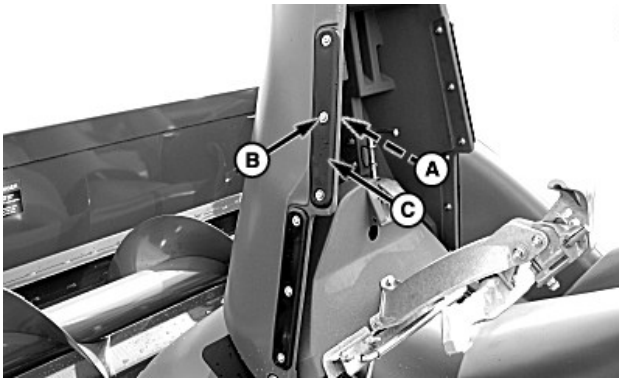


H99116—UN—17NOV10

- a. Remove gatherer chains (A) and (B). (See Remove and Install Gatherer Chain in this section.)
 - b. Remove rear sprockets (C) and (D).
 - c. Install rear sprockets to opposite shaft they were removed from.
 - d. Remove sprockets (E) and (F).
 - e. Install rear sprockets to opposite shaft they were removed from.
 - f. Turn each gatherer chain and install them to opposite side they were removed from.
2. Repeat procedure on all remaining row units.

KP318TH,000004D-19-11NOV21

Wear Strips



H88972—UN—23JUL07

1. Remove nut and washer (A).
2. Remove screw and washer (B).
3. Remove wear strip (C) and install a new one in reverse order.

KP318TH,0000050-19-11NOV21

Storage

End of Season Service

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

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

1. Clean the corn header thoroughly. Chaff and dirt draw moisture cause rust.
2. Lubricate the corn header. Grease the threads on adjusting screws.
3. Paint all parts from which paint has worn.
4. Use a polymer protectorate on the tips, deck covers, and end fenders.
5. If possible, shelter the corn header in a dry place.
6. Order repair parts needed for next season.

KP318TH,0000051-19-11NOV21

Beginning of Season Service

1. Clean the corn header thoroughly.
2. Adjust gatherer chains and check tension.
3. Adjust chains to proper tension.
4. Lubricate corn header completely.
5. Go over complete the corn header and check that all screws are tight and cotter pins are open.
6. Run corn header at half-speed for a few minutes. Check bearings for overheating or excessive play.
7. Consult Operator's Manual.

KP318TH,0000052-19-11NOV21

Specifications

Specification

Specifications given in this manual are intended for

service only and do not include normal factory manufacturing tolerances.

Gatherer points	Low profile floating type hinged above gatherer chains
Center and outer fenders	Hinged, quick-removable
Gatherer chains	Heavy-duty 620 endless steel roller chain with chromed pins (no master connecting link)
Row unit transmission	Enclosed gear case with gears submerged in lubricant; driven by single input hex shaft
Gatherer chain adjustment	Spring loaded self-adjusting
Stalk rolls	Spiral-pointed, flute-type (2 per row unit)
Deck plate adjustment	Hydraulically or manually adjusted
Slip clutch	One per row unit plus auger drive
Rasp plates of row unit	Full length one piece heat-treated steel

NOTE: Specifications and design are subject to change without notice.

KP318TH,0000053-19-01DEC21

Dimensions for Storage and Transport

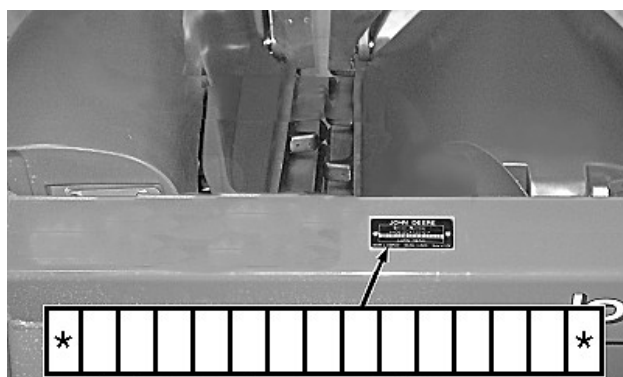
Approximate Dimensions

Points in operating position.....3000 mm
(118 in)

Points raised to transport position.....2400 mm (94 in)

KP318TH,0000055-19-11NOV21

Serial Number



BML022329—UN—29NOV21

Locate serial number plate at left-hand end of header.

Copy your corn header serial number to the field shown here. Inform this number to your dealership when ordering parts.

KP318TH,0000056-19-25NOV21

Identification

Total Length and Approximate Weight for Storage:			
Model	Header Identification	Width mm (in)	Weight kg (lbs)
605C	5R80	4377 (172)	1647 (3631)
605C	5R90	4377 (172)	1755 (3869)
606C	6R70	4377 (172)	1811 (3993)
606C	6R80	4827 (190)	1940 (4277)
606C	6R90	5277 (208)	2069 (4561)
607C	7R60	4377 (172)	1932 (4259)
607C	7R70	5277 (208)	2082 (4590)
607C	7R80	5727 (225)	2233 (4923)
607C	7R90	6177 (243)	2383 (5254)
608C	8R50	4377 (172)	2009 (4429)
608C	8R60	5277 (208)	2181 (4808)
608C	8R70	5277 (208)	2353 (51870)
608C	8R80	6377 (251)	2525 (5567)
608C	8R90	7077 (279)	2697 (5946)
609C	9R45	4377 (172)	2140 (4718)
609C	9R50	4827 (190)	2237 (4932)
609C	9R60	5727 (225)	2430 (5357)
609C	9R70	6377 (251)	2624 (5785)
609C	9R80	7377 (290)	2817 (6210)
610C	10R45	4827 (190)	2357 (5196)
610C	10R50	5277 (208)	2465 (5434)
610C	10R52.5	5497 (216)	2518 (5551)
610C	10R60	6177 (243)	2680 (5908)
610C	10R70	7077 (279)	2895 (6382)
611C	11R45	5277 (208)	2574 (5675)
611C	11R52.5	6177 (243)	2751 (6065)
611C	11R60	7077 (279)	2944 (6490)
611C	11R70	7927 (312)	3165 (6978)
612C	12R45	5727 (225)	2792 (6155)
612C	12R50	6377 (251)	2921 (6440)
612C	12R52.5	6627 (261)	2986 (6583)
612C	12R60	7377 (290)	3179 (7008)
612C	12R70	8657 (341)	3437 (7578)
613C	13R45	6177 (243)	3009 (6634)
613C	13R52.5	7077 (279)	3219 (7097)
614C	14R45	6627 (261)	3226 (7112)
614C	14R50	7377 (290)	3377 (7445)
614C	14R52.5	7597 (299)	3452 (7610)
615C	15R45	7077 (279)	3443 (7591)
615C	15R50	7927 (312)	3604 (7945)
616C	16R52.5	8657 (341)	3668 (8087)
617C	17R45	8047	3878 (8550)

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John Deere Service Literature Available

Technical Information

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

Orders can be made using one of the following:

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

Available information includes:



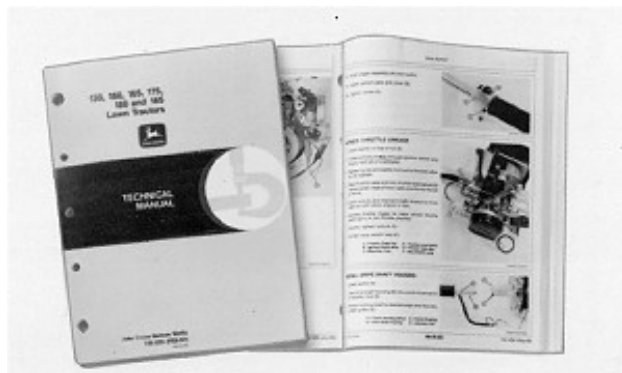
TS189—UN—17JAN89

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



TS191—UN—02DEC88

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



TS224—UN—17JAN89

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



TS1663—UN—10OCT97

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

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

DX,SERV LIT-19-07DEC16

John Deere Service - Keeps You on the Job

John Deere Parts



TS100—UN—23AUG88

We help minimize downtime by putting genuine John Deere parts in your hands in a hurry.

That's why we maintain a large and varied inventory—to stay a jump ahead of your needs.

DX,IBC,A-19-04JUN90

School is never out for John Deere service technicians.

Training schools are held regularly to be sure our personnel know your equipment and how to maintain it.

Result?

Experience you can count on!

DX,IBC,C-19-04JUN90

Prompt Service



TS103—UN—23AUG88

Our goal is to provide prompt, efficient care when you want it and where you want it.

We can make repairs at your place or at ours, depending on the circumstances: see us, depend on us.

JOHN DEERE SERVICE SUPERIORITY: We'll be around when you need us.

DX,IBC,D-19-04JUN90

The Right Tools



TS101—UN—23AUG88

Precision tools and testing equipment enable our Service Department to locate and correct troubles quickly . . . to save you time and money.

DX,IBC,B-19-04JUN90

Well-Trained Technicians



TS102—UN—23AUG88

