722PF, 725PF, 730PF, 735PF, and 740PF Cutting Platforms

OPERATOR'S MANUAL

722PF, 725PF, 730PF, 735PF, and 740PF Cutting Platforms

OM5ZN54607 ISSUE C0 (ENGLISH)

Deere & Company (XG)
European Edition
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Foreword

XG334221 —UN—03NOV17

IMPORTANT: The information outlined in this Operator's Manual stand for the 722PF—735PF cutting platforms. For the 740PF cutting platform MY18, refer to the 640PF Cutting Platform Operator's Manual.

INTENDED USE: This cutting platform is designed solely for use in customary agriculture or similar operations. Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use.

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 the 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 metric. The U.S. equivalents are still quoted, however. 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 of forward travel.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or Identification Numbers section. Please note all numbers exactly. In the event of theft, these numbers may prove vital in tracing your property. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

BEFORE DELIVERING THIS MACHINE, your dealer performed a predelivery inspection. After operating for the first 20 to 50 hours, schedule an after-sale inspection with your dealer to ensure best performance.

THIS CUTTING PLATFORM SHOULD BE OPERATED, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times. Any arbitrary modifications carried out on this combine will relieve the manufacturer of all liability for any resulting damage or injury.

OUCC002,000557C -19-18DEC17-1/1

Trademarks

List of trademarks used throughout this Operator's Manual.

Trademarks	
Deere™	Trademark of Deere & Company
Dial-A-Speed™	Trademark of Deere & Company
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TORX®	Trademark of Camcar/Textron

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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.

Recognize Safety Information

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

Follow recommended precautions and safe operating practices.

T81389 —UN—28JUN13

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

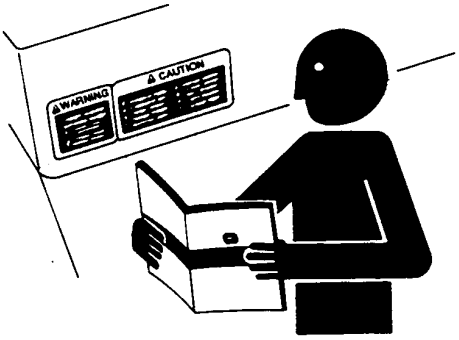
Follow Safety Instructions

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

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

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

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



TS201 —UN—15APR13

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

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

Observe Road Traffic Regulations

Always observe local road traffic regulations when using public roads.

H28930 —UN—30JUN89

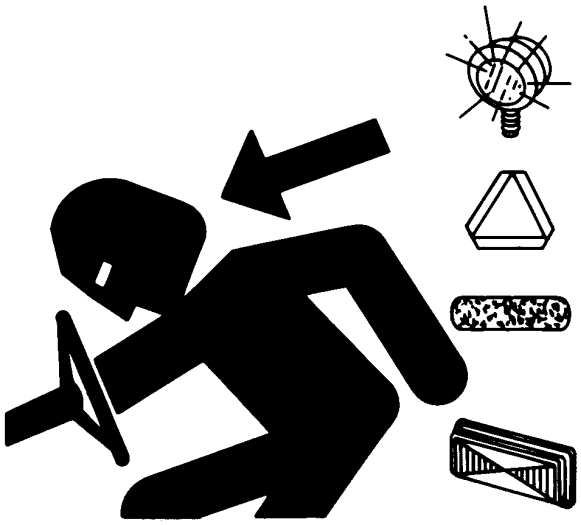
FX,ROAD -19-01MAY91-1/1

Use Safety Lights and Devices

Slow moving tractors, self-propelled equipment and towed implements or attachments can create a hazard when driving on public roads. They are difficult to see, especially at night. Avoid personal injury or death resulting from collision with a vehicle.

If legally permitted, use flashing warning lights or rotary beacons whenever driving on public roads. To increase visibility, use the lights and devices provided with your machine. For some equipment, install additional flashing warning lights.

Keep safety items in good condition. Replace missing or damaged items. An implement safety lighting kit is available from your John Deere dealer.



TS951 —UN—12APR90

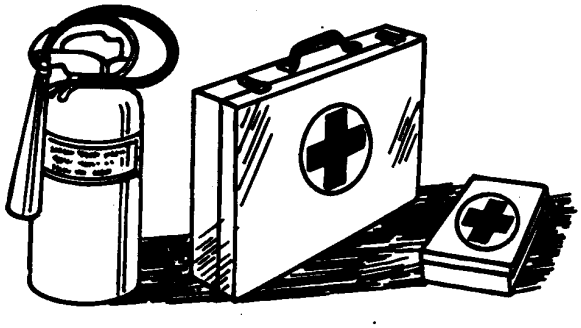
ZX,FLASH -19-01OCT91-1/1

Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

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



TS291 —UN—15APR13

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

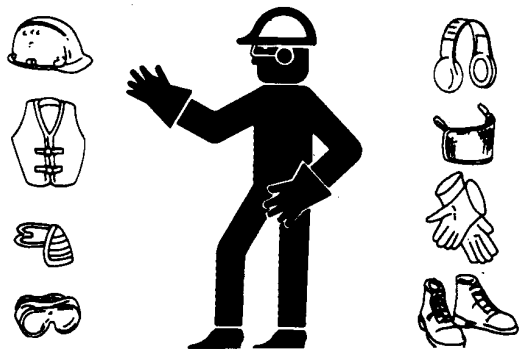
Wear Protective Clothing

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

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

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

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



TS206 —UN—15APR13

DX,WEAR -19-10SEP90-1/1

Store Attachments Safely

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

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

TS219 —UN—23AUG88

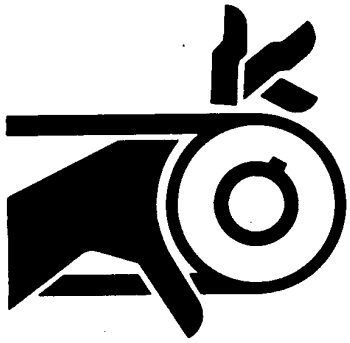
DX,STORE -19-03MAR93-1/1

Guards and Shields

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

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

Keep hands, feet and clothing away from moving parts.



TS285 —UN—23AUG88

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

Stay Clear of Harvesting Units

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

ES118704 —UN—21MAR95

FX,CUT -19-21DEC90-1/1

Keep Hands Away From Knives

Never attempt to clear obstructions in front of or on harvesting unit unless main clutch is disengaged, engine shut off and key removed.

Everyone must be clear of the machine before starting the engine.

TS254 —UN—23AUG88

FX,KNIFE1 -19-15FEB93-1/1

Stay Clear of Rotating Drivelines

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

Keep driveline shields in place at all times.

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

TS1644 —UN—22AUG95

OUO6035,000146A -19-30JUL01-1/1

Stay Clear of Cutterbar When Rotating Auger

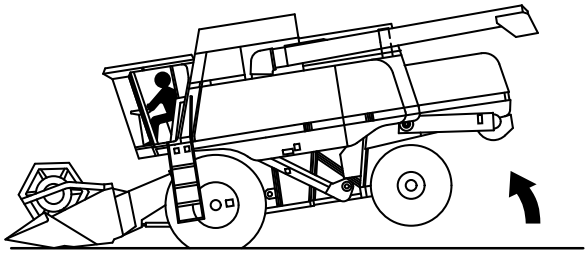
The cutterbar knife and cross auger use a common belt drive. Whenever the auger is rotated by hand the cutterbar will move. Use extreme caution to keep hands, feet and clothing clear of the cutterbar and its knives when attempting to the rotate cross auger for service, adjustment, inspection or unplugging.

TS268 —UN—23AUG88

OUO6035,000146B -19-30JUL01-1/1

Ballasting for Safe Ground Contact

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



H68497 —UN—04JUN01

OUO6035,000142E -19-01JUN01-1/1

Practice Safe Maintenance

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

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing 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.

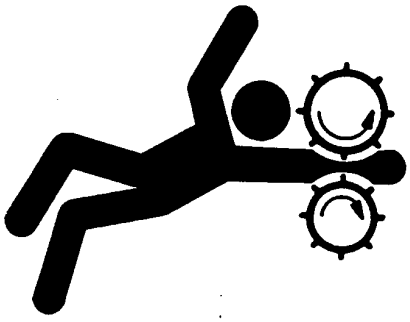
TS218 —UN—23AUG88

DX,SERV -19-28FEB17-1/1

Service Machines Safely

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

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



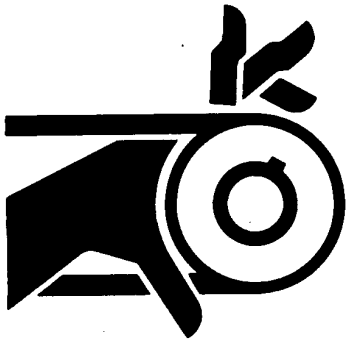
TS228 —UN—23AUG88

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

Service Drive Belts Safely

When servicing drive belts always observe these precautions:

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



TS285 —UN—23AUG88

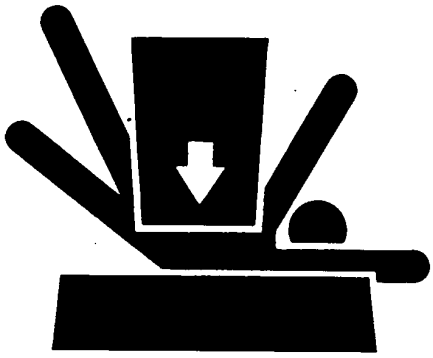
OUO6075,00026A4 -19-06FEB03-1/1

Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If the work requires that the machine or attachment be lifted, provide secure support for them. If left in a raised position, hydraulically supported devices can settle or leak down.

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

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



TS229 —UN—23AUG88

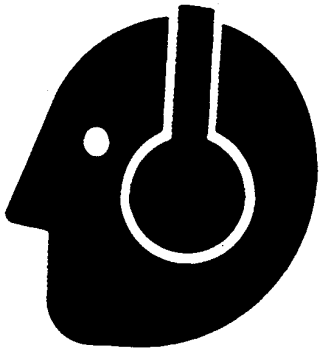
DX,LOWER -19-24FEB00-1/1

Protect Against Noise

There are many variables that affect the sound level range, including machine configuration, condition and maintenance level of the machine, ground surface, operating environmental, duty cycles, ambient noise, and attachments.

Exposure to loud noise can cause impairment or loss of hearing.

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



TS207 —UN—23AUG88

DX,NOISE -19-03OCT17-1/1

Avoid Heating Near Pressurized Fluid Lines

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can accidentally burst when heat goes beyond the immediate flame area.

TS953 —UN—15MAY90

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

Avoid High-Pressure Fluids

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

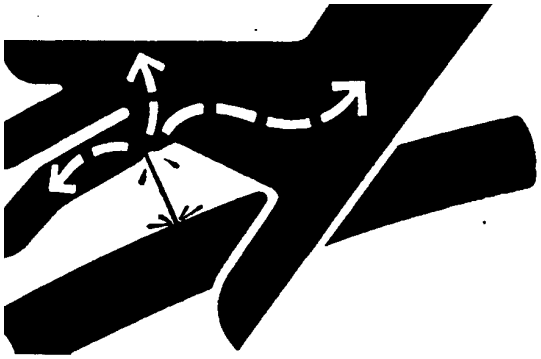
Replace worn or damaged hose assemblies immediately with John Deere approved replacement parts.

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

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

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

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



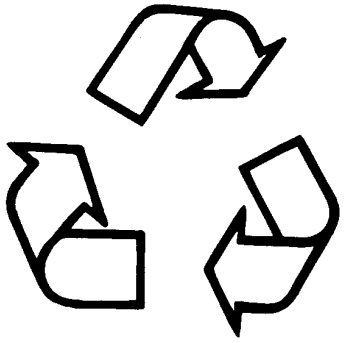
X9811 —UN—23AUG88

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

Decommissioning — Proper Recycling and Disposal of Fluids and Components

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);



TS1133 —UN—15APR13

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 -19-01JUN15-1/1

Road Transport Disconnect Button

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

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

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

After transporting machine on roadway and field operation is desired, press road transport disconnect button for **two seconds**, allowing indicator light to turn OFF and allowing desired button functions to operate again.

H100048 —UN—03FEB11

A—Road Transport Disconnect Button

OUCC002,000473D -19-22OCT15-1/1

Replace Safety Signs

IMPORTANT: Always replace safety signs with the original safety sign type.

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.

TS201 —UN—15APR13

OUCC002,000557D -19-23OCT17-1/1

Safety Signs

Pictorial Safety Signs

At several important places of this machine safety signs are affixed intended to signify potential danger. 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.

TS231 —19—07OCT88

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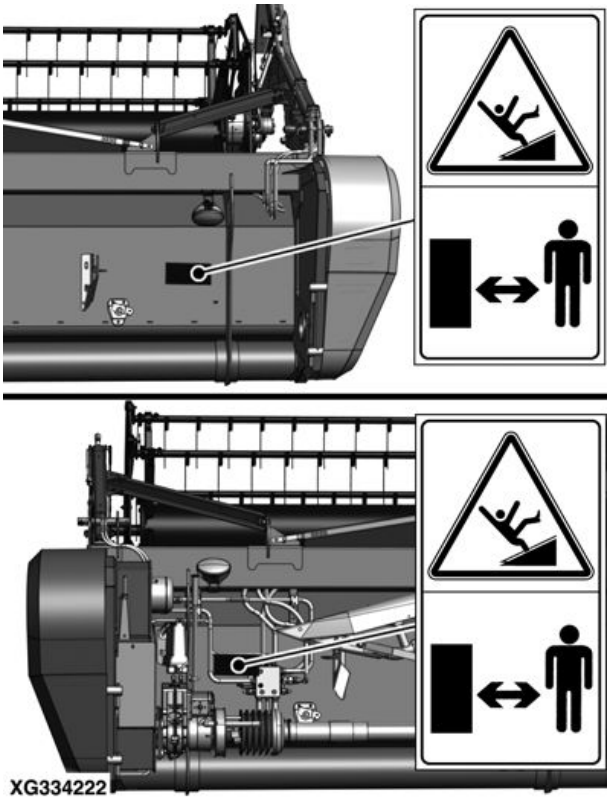
OUCC002,000557E -19-16NOV17-1/5

Cutting Platform

Stay clear of header. Disengage header drive, shut off engine and remove key before servicing or unclogging header.



XG334222 —UN—16NOV17

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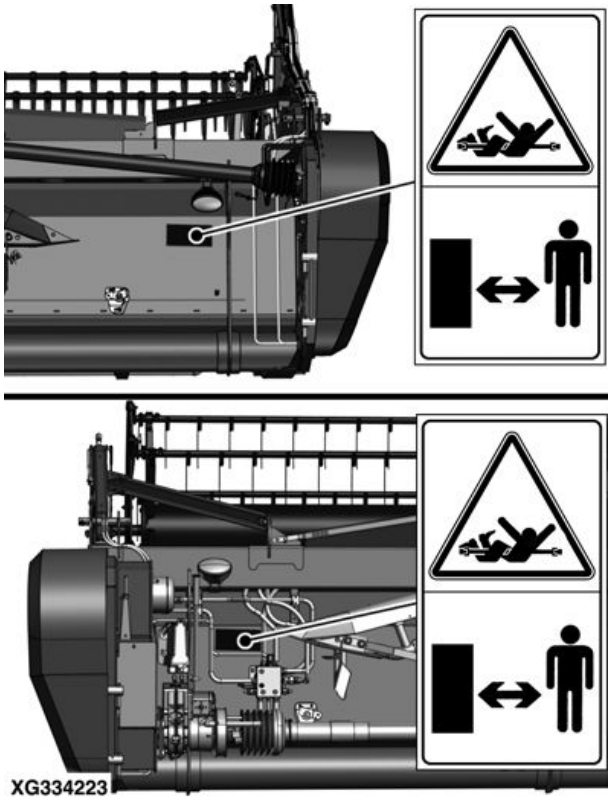
OUCC002,000557E -19-16NOV17-2/5

Cutting Platform Drive Shaft

Stay clear of rotating drive shaft to avoid personal injury.



XG334223 —UN—18DEC17

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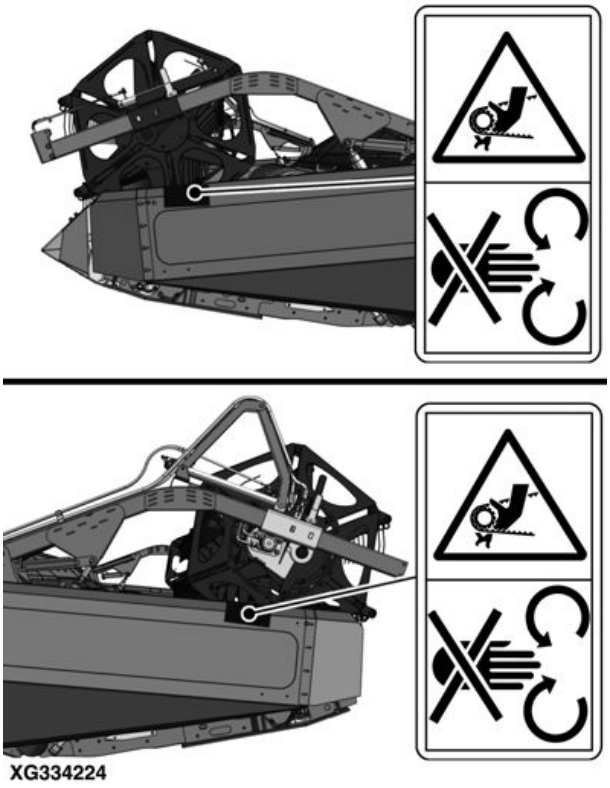
OUCC002,000557E -19-16NOV17-3/5

Shields on Cutting Platform Drives

Do not open or remove safety shields while the engine is running.



XG334224

XG334224 —UN—16NOV17

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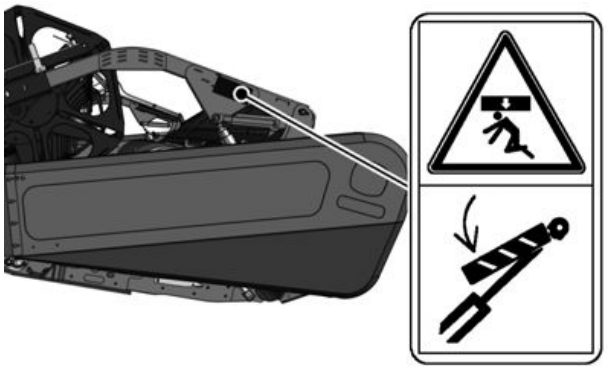
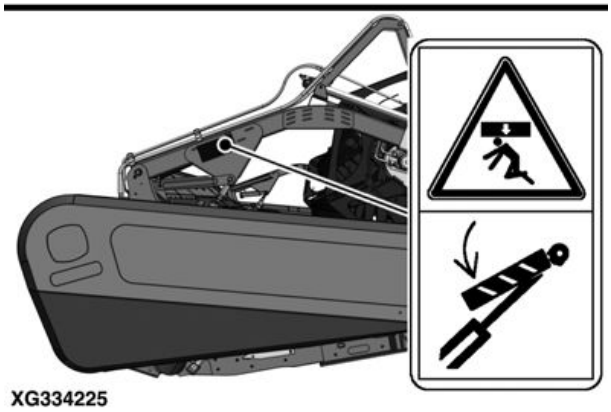
OUCC002,000557E -19-16NOV17-4/5

Reel Lifting Cylinder

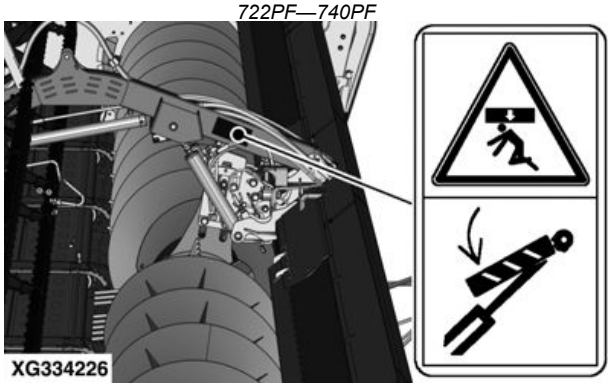
Secure lifting cylinder with locking device before entering hazardous area.





XG334225 —UN—16NOV17

722PF—740PF

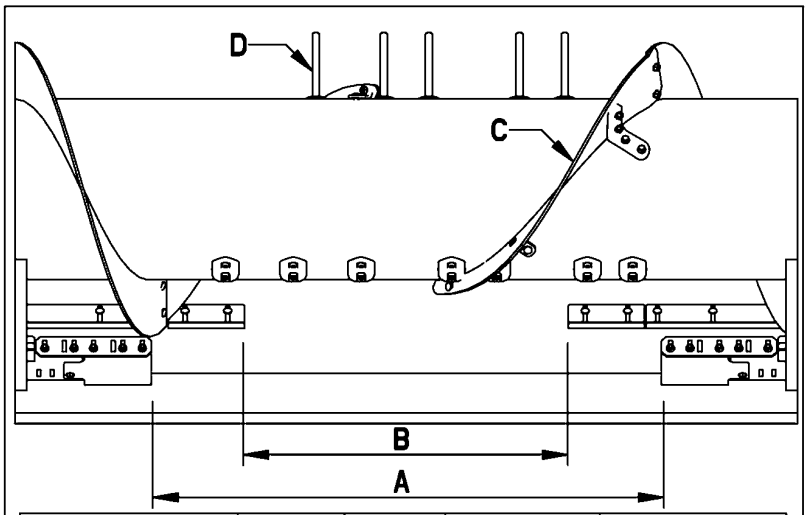


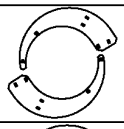
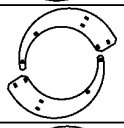
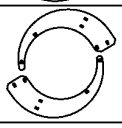
XG334226 —UN—16NOV17

740PF Only

OUCC002,000557E -19-16NOV17-5/5

Cutting Platform-to-Combine Adaptation



	A	B	C	D
W540 / W550 T550 / T560	1150mm (3 ft 9.28 in)	740mm (2 ft 5.13 in)		24 (722PF-730PF)
W650 / W660 T660 / T670	1450mm (4 ft 9.09 in)	1085mm (3 ft 6.71 in)		24 (722PF-730PF)
S680 / S685 / S690 S780 / S785 / S790	1285mm (4 ft 2.60 in)	1085mm (3 ft 6.71 in)		24 (722PF-730PF) 20 (735PF-740PF)

XG334243 —UN—19DEC17

XG334243

A—Distance between Rear Strippers

B—Distance between Floor Strippers

C—Flight Extensions

D—# of Auger Finger Installed

Auger and strippers of the cutting platform must be adjusted to the combine to ensure optimum feeding of material from the cutting platform to the feeder house.

Adjusting the cutting platform to the combine results in even feeding of material across the entire width of the feeder house. This results in even distribution of the material within the separator and high threshing performance.

To adapt the cutting platform to the combine, refer to the illustration as follows:

- **On W540, W550, T550, and T560 Combines (Level Land and HillMaster™):** Install floor stripper extensions and tapered auger flight extensions.
- **On W650, W660, T660, and T670 Combines (Level Land and HillMaster™):** Remove floor stripper extensions. Install tapered auger flight extensions.
- **On S660/S760—S690/S790 Combines (Level Land and HillMaster™):** Remove floor stripper extensions. Install tapered auger flight extensions.

NOTE: The cutting platform is delivered with the flight extensions (C) installed.

The 722PF, 725PF, and 730PF cutting platforms are delivered with 24 auger fingers (D) installed in the middle of the auger and 5 auger fingers stored in the tool box.

The 735PF and 740PF cutting platforms are delivered with 20 auger fingers (D) installed in the middle of the auger and 6 auger fingers stored in the tool box.

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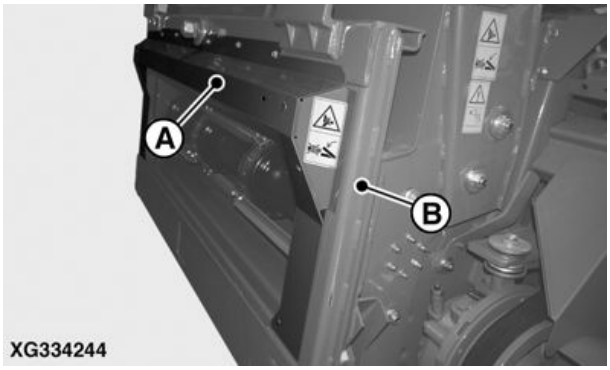
OUCC002,00055A3 -19-19DEC17-1/2

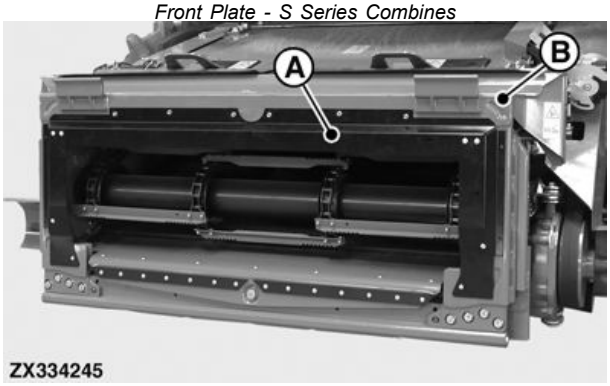
On all Series Combines, install the special deflector (A) on the feeder house front plate (B).

A—Deflector **B—Front Plate**



XG334244 —UN—03NOV17

Front Plate - S Series Combines



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Front Plate - W, T Series Combines

OUCC002,00055A3 -19-19DEC17-2/2

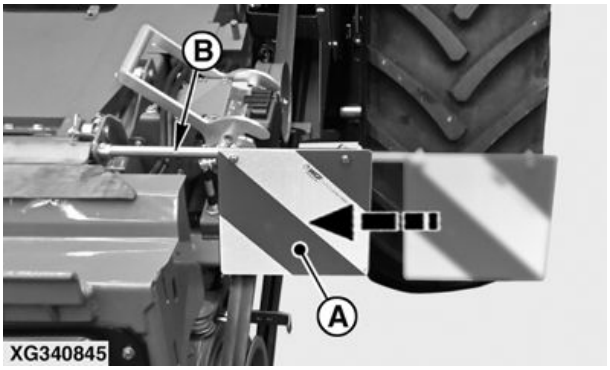
Attach Cutting Platform

Relocate Front Warning Placards (if equipped)

Before attaching the header on the combine, slide the placard (A) to its innermost position in the feeder house bracket, then retain the tube (B) with quick-lock pin (C). Repeat on the opposite side of the machine.

Check that there is no contact between the placards (A) and any part of the cutting platform. If necessary, remove and store the placards (A).

A—Placard
B—Tube
C—Quick-Lock Pin



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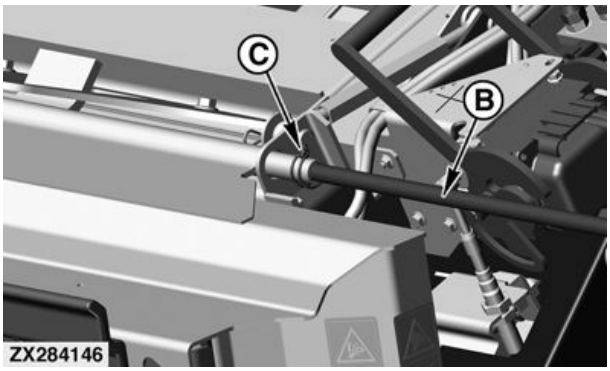

ZX284146 —UN—05JUL16

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OUCC002,00056DD -19-18DEC17-1/6

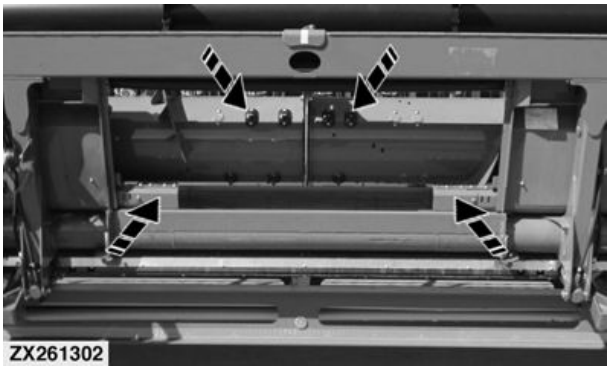
IMPORTANT: Before attaching cutting platform, adapt the cutting platform to the combine feeder house. Auger rear strippers, floor strippers and intake fingers (see arrows) depend on combine model. See Cutting Platform-to-Combine Adaptation in this section.

To attach the cutting platform, proceed as follows:

1. Drive combine slowly forward until feeder house is centered in cutting platform opening.
2. Raise the feeder house. Insert the two hooks on the feeder house into openings (A) in the cutting platform frame.
3. Open handle (B) and remove multicoupler (C) from cutting platform storage bracket.

IMPORTANT: Prior to connecting multicoupler (C), thoroughly clean surface of the cartridges.

A—Opening
B—Handle
C—Multicoupler



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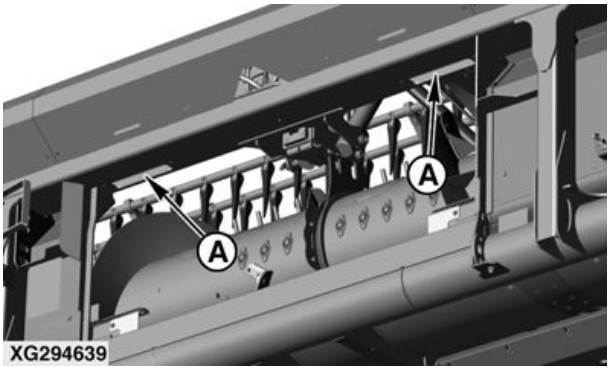

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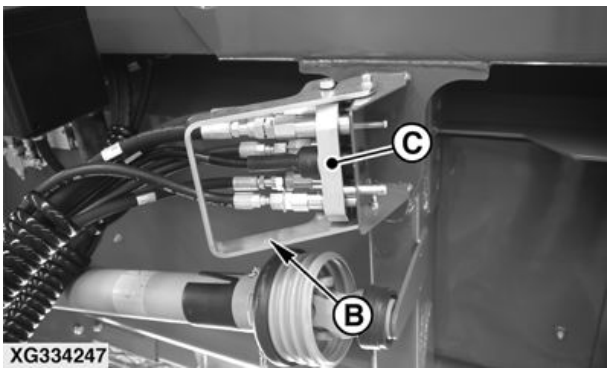

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OUCC002,00056DD -19-18DEC17-2/6

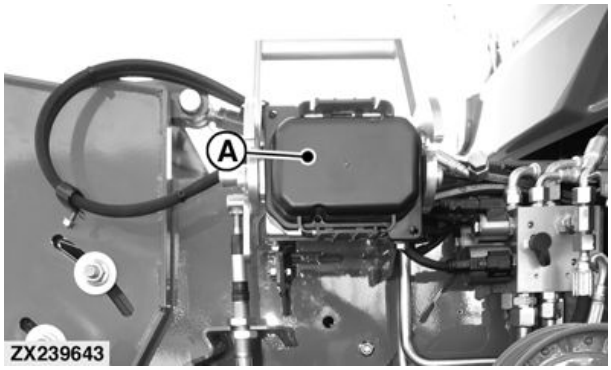
4. Remove cover (A) from feeder house and clean multicoupler face (B).

IMPORTANT: Prior to connecting multicoupler (B), thoroughly clean surface of the cartridges.

NOTE: Store cover (A) on cutting platform multicoupler storage bracket.

5. Connect multicoupler (C) to the receptacle on the feeder house. Pull down handle (D) to engage the feeder house latch pins.

A—Cover
B—Multicoupler Face
C—Multicoupler
D—Handle



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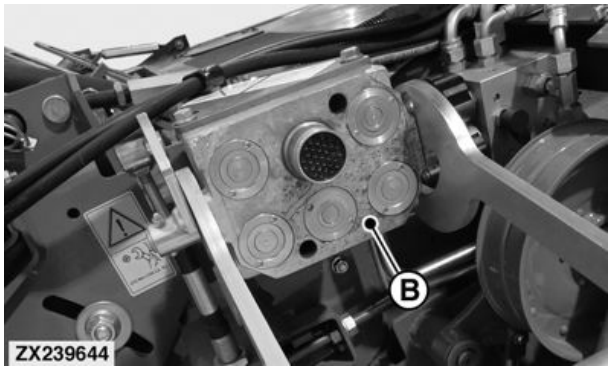

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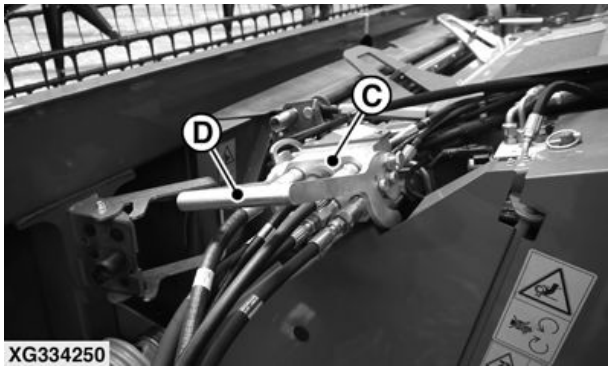

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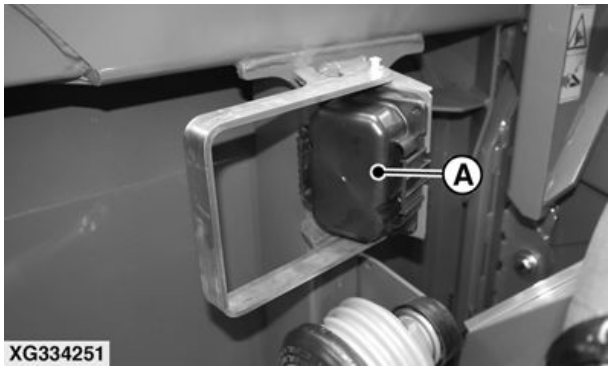

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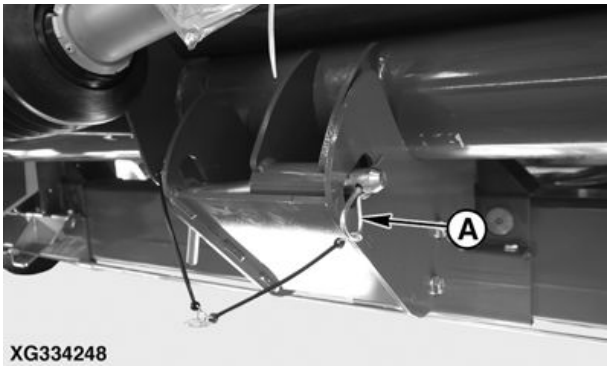
6. If cutting platform is on a trailer:

   Pull quick-lock pin (A) and remove both latch pins (B) to unlock the cutting platform from the trailer.

   Store both latch pins (B) in storage holes (C) and retain with quick-lock pin (A) as shown.

A—Quick-Lock Pin **B—Latch Pin**



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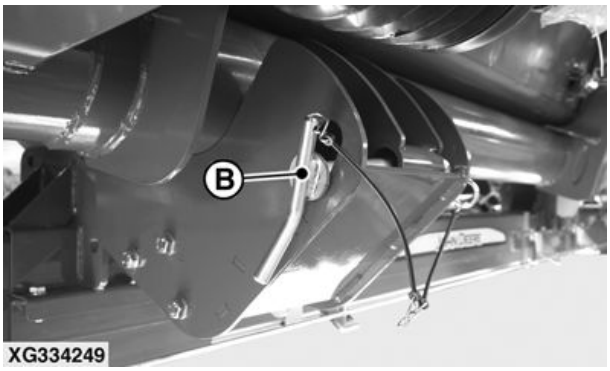

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OUCC002,00056DD -19-18DEC17-4/6

7. **Check Latch Pins:**

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

   If adjustment is needed: Remove flange screws (E), flip plate end for end, and reinstall.

   Tighten flange screws (E) to **80 N·m (60 lb·ft)**.

8. Detach driveline (F) from its storage support (G).
9. Connect driveline (F) to feeder house countershaft. Let quick-attach collar (H) lock completely.

NOTE: Engage the driveline shield chain at a suitable location.

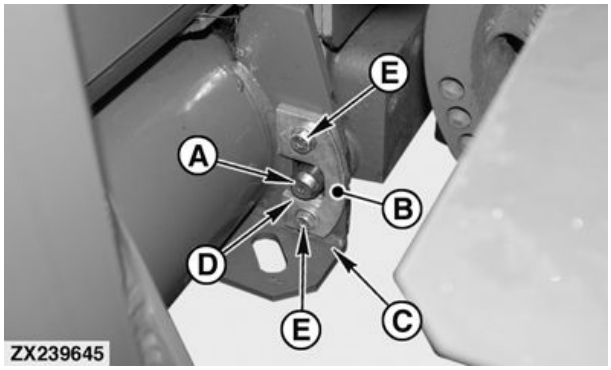
10. Slowly raise the cutting platform and drive the combine rearward.

IMPORTANT: Do not damage skid plates of header height control when driving rearward.

11. Before operating the cutting platform:

IMPORTANT: Make sure that the latest software package is applied to the combine. Contact your John Deere dealer.

A—Latch Pin
B—Latch Plate
C—Bottom Bracket
D—Clearance
E—Flange Screw
F—Driveline
G—Support
H—Quick-Attach Collar



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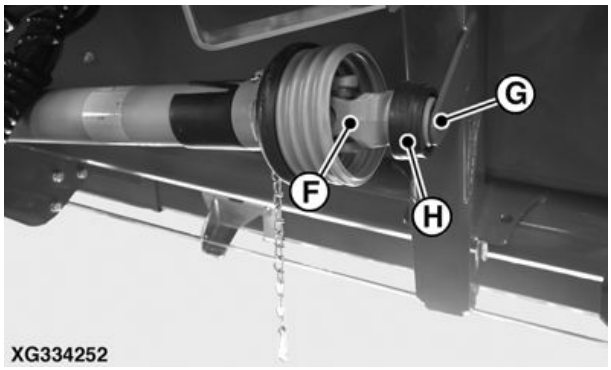

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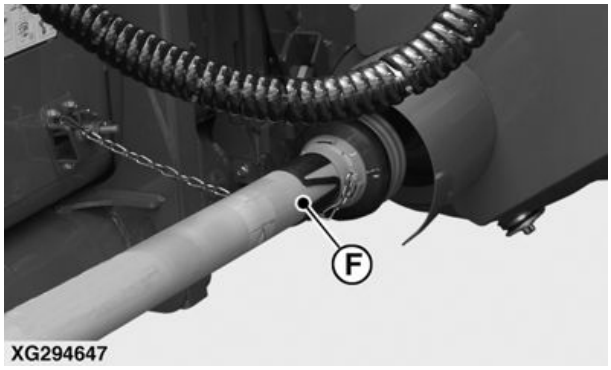

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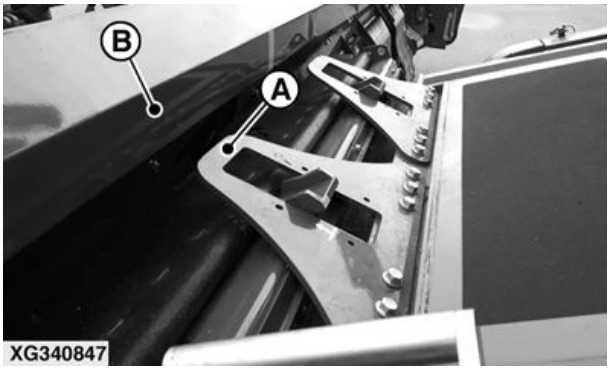
a. **Combine With Feeder House Fore/Aft Tilt Only:** On 735PF and 740PF, the tilt backward must be limited to avoid contact between the feeder house straps (A) and the cutting platform (B). To limit the maximum backward position of the feeder house, proceed to the **Feeder House Fore/Aft Tilt Range Calibration** as described in the relevant combine Operator's Manual.

b. Check that cutting platform model is detected as a 600 Rigid Platform Series model by the combine automatic header detection system. Refer to the combine Operator Manual.

c. Proceed to the cutting platform calibration. See **Calibrate Cutting Platform** in this section.

IMPORTANT: Calibration must be performed the first time cutting platform is attached to a combine then each time it is attached to a different combine.



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A—Feeder House Strap **B—Cutting Platform**

OUCC002,00056DD -19-18DEC17-6/6

Cutting Platform Tilt Angle

CAUTION: Detach cutting platform from combine to relieve tension from fore/aft tilt frame turnbuckles (B). Shut OFF engine, set parking brake, and remove key.

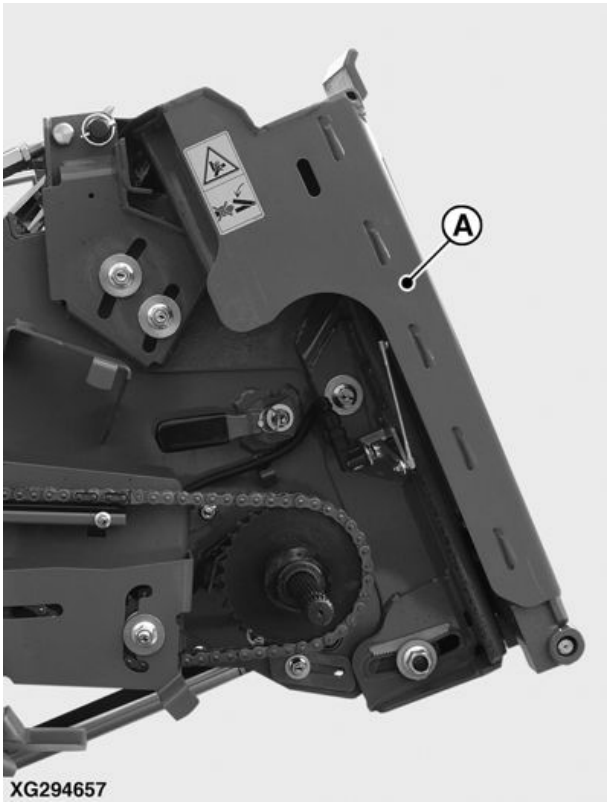
IMPORTANT: Check cutting platform tilt angle each time cutting platform is attached to a combine. Do not perform this adjustment with cutting platform attached to the combine.

Cutting platform tilt angle must be adjusted so that the cutting platform table is flat when operating in small grain crop.

Cutting platform tilt angle is adjusted by changing the angle of the feeder house tilt frame (A) using turnbuckles (B). To adjust feeder house tilt frame, refer to combine Operator's Manual.

NOTE: Feeder house adjustment depends on combine tire configuration and rear axle position.

A—Tilt Frame **B—Turnbuckle**



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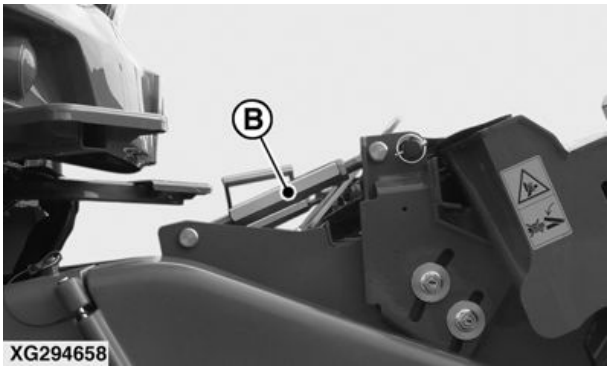

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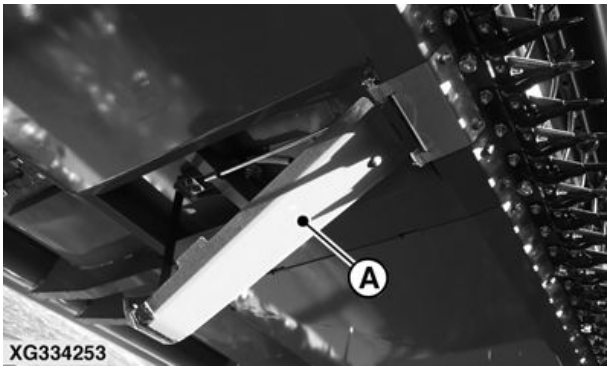
Header Height Control Skid Plates

Skid plates (A) which sense the clearance from the cutting platform floor to the ground, are installed below the cutting platform.

IMPORTANT: Before backing up with the cutting platform attached, fully raise the cutting platform to prevent damage to the skid plates (A).

A—Skid Plate



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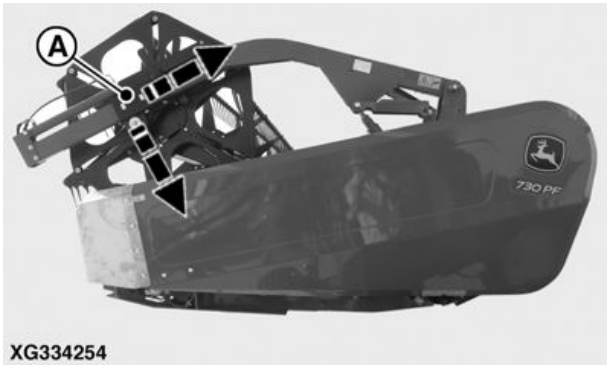
Detach Cutting Platform

IMPORTANT: Fully lower and move reel (A) back before detaching the cutting platform from the combine.

If the cutting platform must be detached on the ground, place wood blocks or pallets (B) at several locations underneath the table so that the cutterbar is kept horizontal. Install pallets (B), which will help during the next platform attachment. Carefully lower cutting platform until it touches the pallets (B).

A—Reel **B—Pallet**



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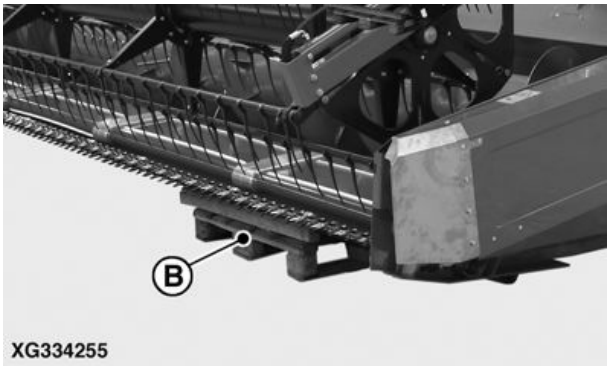

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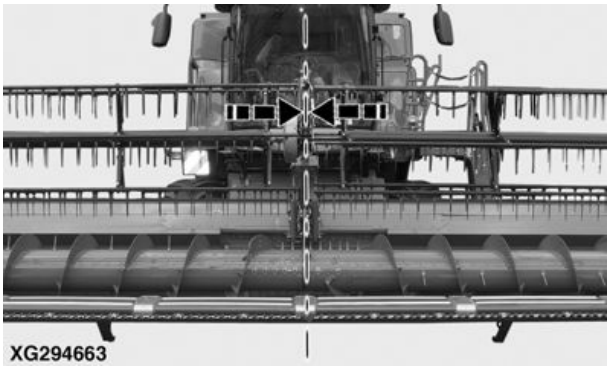
OUCC002,00055A8 -19-31OCT17-1/4

If the cutting platform must be detached on a trailer, proceed as follows:

1. Remove the latch pins from latch supports of the trailer.
2. Align center of reel with the help of the guide (A) and place cutting platform above the trailer.

A—Guide



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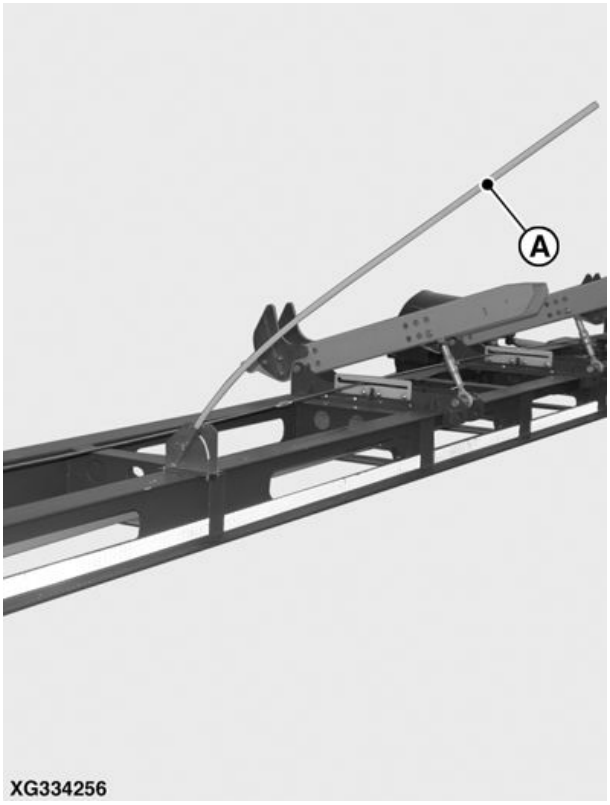

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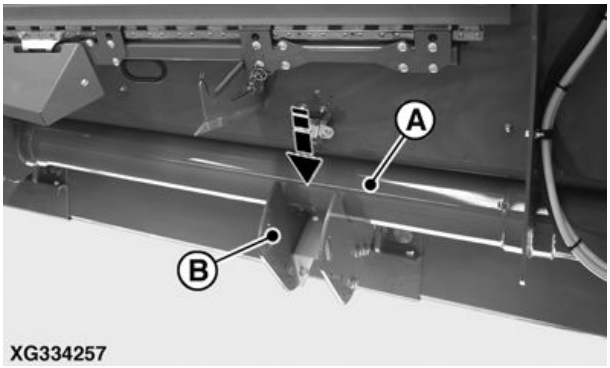
OUCC002,00055A8 -19-31OCT17-2/4

3. Carefully lower cutting platform on trailer support so that the lower frame (A) engages into anchors (B) and latch supports (C), then secure with latch pins (D).

IMPORTANT: Secure each latch pin (D) with the quick-lock pin (E).

A—Frame
B—Anchor
C—Latch Support
D—Latch Pin
E—Quick-Lock Pin



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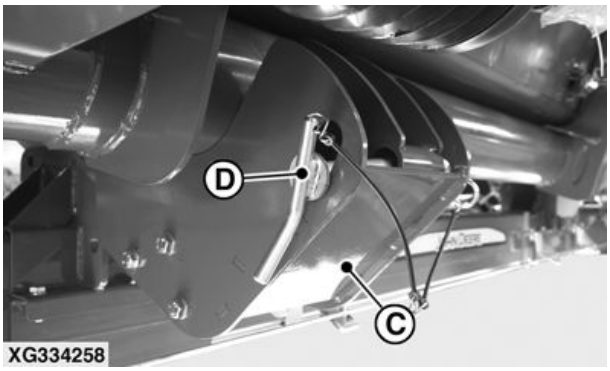

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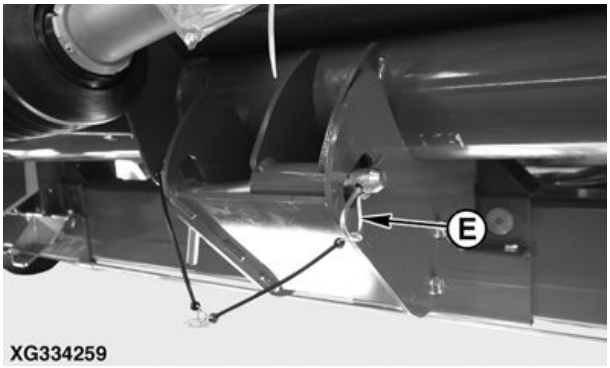

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OUCC002,00055A8 -19-31OCT17-3/4

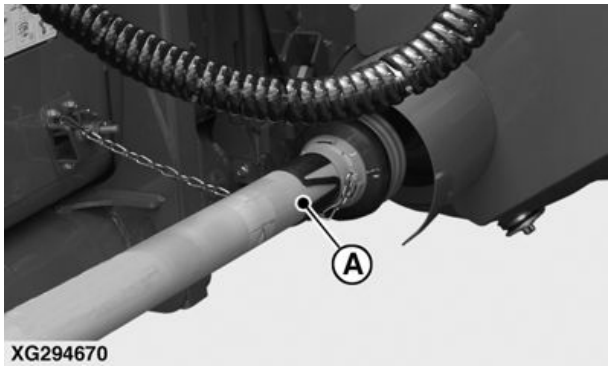
Detach the cutting platform as follows:

1. Disconnect driveline (A) from feeder house countershaft.
2. Attach driveline (A) to storage support (B). Let quick-attach collar (C) lock completely.
3. Pull up handle (D) to disconnect multicoupler (E) from the feeder house receptacle and disengage the feeder house latch pins.

IMPORTANT: Before disconnecting the multicoupler (E), make sure that reel is down and moved backward.

4. Store multicoupler (E) on cutting platform storage bracket and secure with handle (F).
5. Slightly lower the feeder house until hooks are below top beam of cutting platform, and drive combine slowly rearward.

A—Driveline
B—Support
C—Quick-Attach Collar
D—Handle
E—Multicoupler
F—Handle



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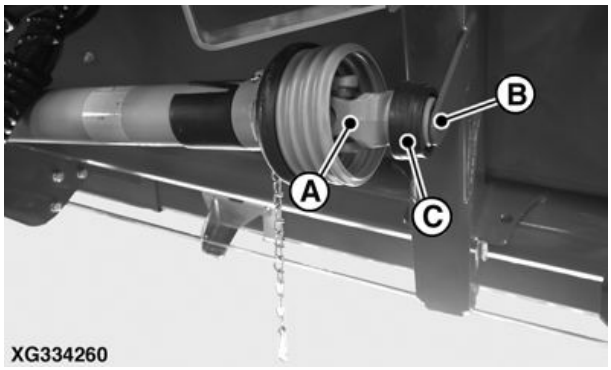

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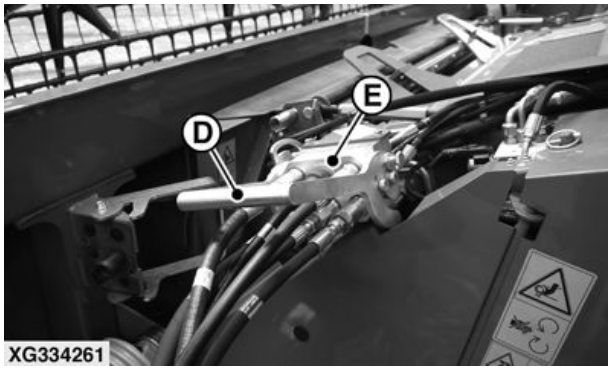

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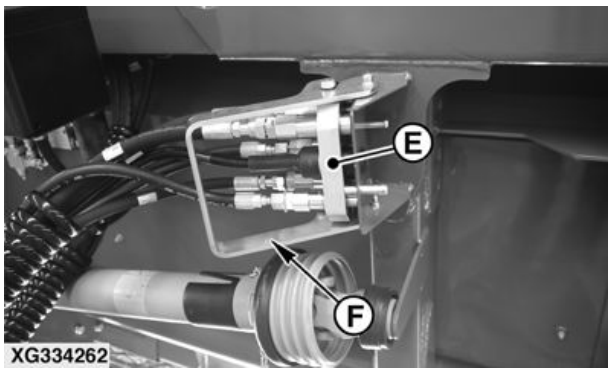

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Transport Cutting Platform on a Trailer

CAUTION: Comply with the local regulations regarding width, lighting, and marking of the trailer.

IMPORTANT: Fully lower and move reel (A) back before detaching the cutting platform from the combine.

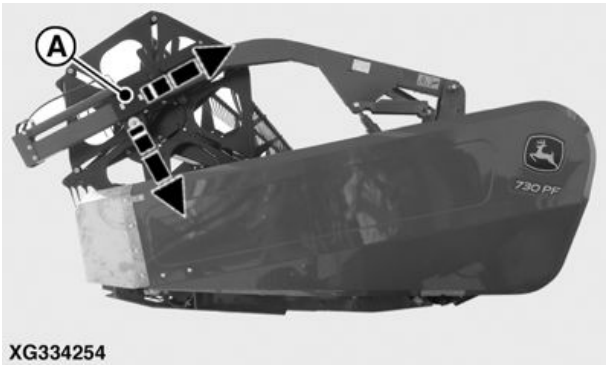
When transporting the header on a trailer:

- Properly configure trailer brackets and supports (B) for the header being transported.

  NOTE: Use turnbuckles (C) for adjusting the inclination of the support (B).

- Put the cutting platform on the trailer and secure with latching device (D). See **Detach Cutting Platform** section.
- Fold in the foldable crop dividers. See **Crop Dividers** section.
- If equipped with, remove and store rapeseed knife. See **Rapeseed Knife** section.
- Make sure that the knife protection guard is installed. See **Knife Protection Guard (if Equipped)** section
- Verify all shields are properly closed and multicoupler is locked in storage position.
- Use a tow vehicle of adequate towing capacity and braking capabilities.
- Drive at a speed that is safe for conditions.

A—Reel
B—Support
C—Turnbuckle
D—Latch



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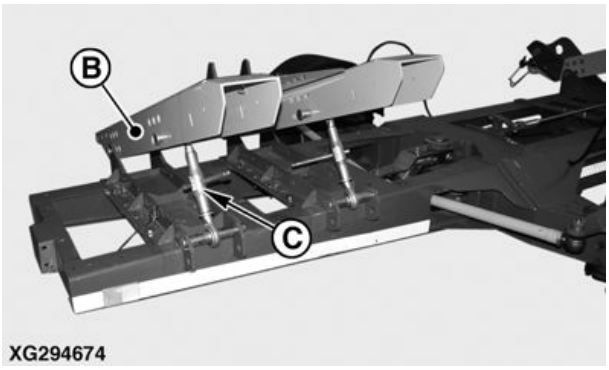

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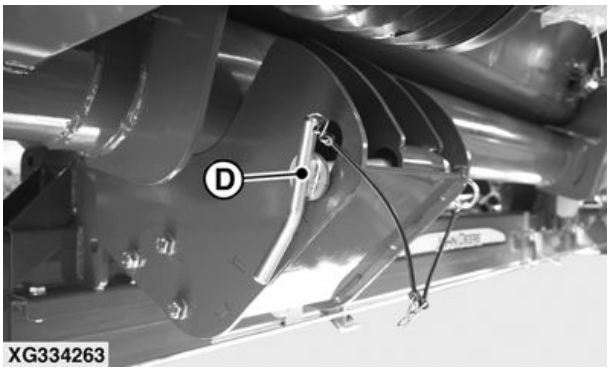

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Calibrate Cutting Platform

IMPORTANT: Before the cutting platform can be used, it must be calibrated when attached to the combine. The cutting platform is detected by the combine automatic header detection system as a 600 Rigid Platform Series.

Header and Reel Position calibrations must be performed again each time cutting platform is attached to a different combine.

Header calibration must be performed each time a header height control sensor has been replaced or adjusted.

Reel Position calibration must be performed each time a reel sensor has been replaced or adjusted.

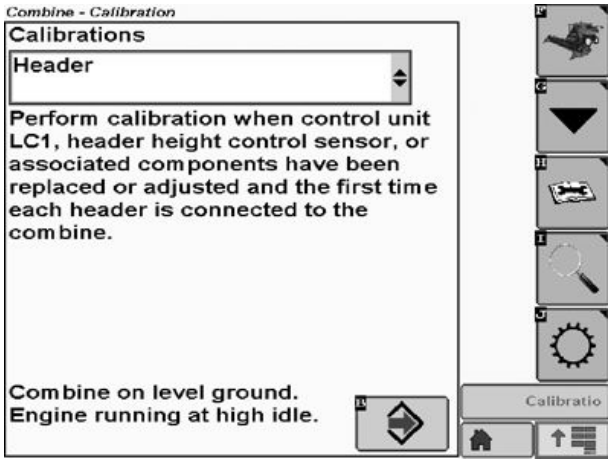
When the cutting platform is attached to a combine for the first time, reel and header height control sensors must be matched with the software of the combine. To do this, the following functions must be calibrated.

- Reel raise/lower
- Reel fore/aft
- Header height control skid plates

Sensors controlled by skid plates (A) are installed below the cutting platform floor.

To calibrate the cutting platform, select the relevant calibration menu and follow the instructions on the screen (refer to Combine Operator's Manual).

A—Skid Plate



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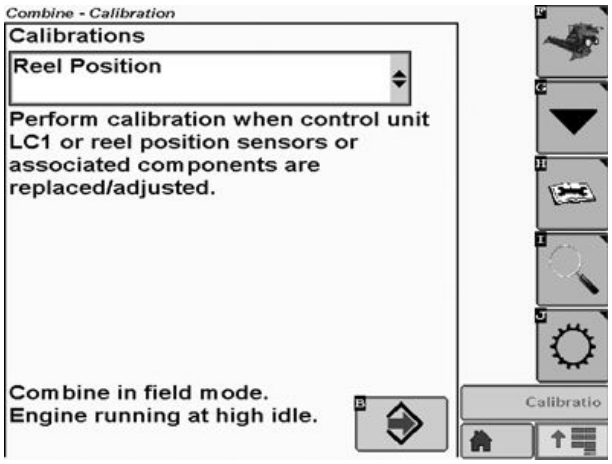

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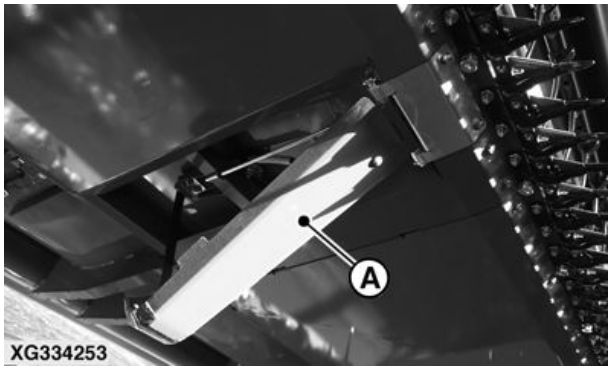

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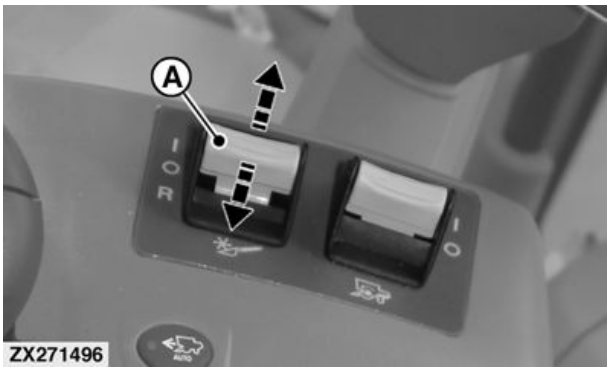
Engage Cutting Platform Drive

The cutting platform drive is engaged with header switch (A). Also comply with the instructions in the combine Operator's Manual.

A—Header Engage Switch



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Operate the Cutting Platform—General

Cutting Platform Controls

Refer to the relevant combine Operator's Manual for instructions on how to operate the various functions of the cutting platform.

- Cutting platform raise/lower
- Reel fore/aft
- Reel speed adjustment
- Reel raise/lower
- Reel height resume
- Reel fore/aft resume
- Header height resume
- Calibrations

To operate the cutting platform properly, pay attention to the following:

Cutting Height

Set the cutting height setting as high as possible when the base of the stalk is green, moist, and tough. Set the cutting height as low as necessary depending on how the straw is used (baling or chopping) and whether the ground is tilled afterwards.

Each centimeter by which the cutting height is reduced decreases cutting performance, increases wear of cutting platform, feeding system, separator, and chopper, impairs separation on walkers and cleaning shoe, and increases fuel consumption.

The crop dividers should be at least 10 cm (4 in) above the ground. If cutting height is lower, for example, for laid-down crop, the crop lifter tips rise and slide over the grain.

To avoid grain losses, make sure that knives do not damage the hanging grain ears. Use crop lifters when harvesting down crop.

Reel Settings

Proper use of the reel has direct influence on conveyance and performance of the combine. Reel height and fore/aft can be set from inside the cab.

Reel Position: In normal standing crops, the reel tubes touch the crop right below the heads and slightly before the cutterbar. Plants are then be supported when cut and are guided towards the conveying auger.

IMPORTANT: Do not position the reel too far in front of the cutterbar. This can lead to bunching and uneven feeding. The reel has to actively guide the crops onto the feed table.

- When harvesting standing crop, adjust the reel in such a way that the reel bar contacts the stalks just below the grain ear.
- In short, damp, or weedy crops, lower reel and operate it behind the cutterbar. In such conditions, the plants have to be pulled towards the cutterbar and inside the platform with the reel.
- In down and tangled crops, the reel lifts the plants up before cutting. Reel has to be in front and below the cutterbar to achieve this. Crop lifters can also be installed.
- When harvesting rapeseed, bring the reel into a high position.

Reel Tines: The tines should be vertical for most conditions as they have no important function in standing crops. In down crops, the tines have to pick up the plants and lift them over the cutterbar. For this purpose, they can be adjusted to point towards the machine.

Reel Speed: Reel speed should be slightly higher than ground speed of the machine. Reel speed can be adjusted with the reel speed dial on the armrest, or automatically adjusted in relation to the ground speed if Dial-A-Speed™ is active.

- Shattering of the heads and plants tangling up in the reel are signs of too fast reel speed.
- Plugging of the cutterbar, uneven feeding and bunching are indicators of a too slow reel speed.
- In tough conditions and down crops, use a higher speed to comb the crops.

IMPORTANT: Bunching and plugging are indicators that the reel is too far out, too high, or too fast.

Auger Settings

The flow of crop in the cutting platform is important for a good flow of material throughout the combine.

Therefore, it is important to adjust the auger in such a way that the clearance to the cutting platform floor and the rear wall is correct. Correct stripper adjustment prevents material from wrapping around the auger.

Auger flight extensions and strippers must be adjusted to the width of the combine in the area where the material is fed into the feeder house. This adjustment results in an optimum and even load on the separator across the width of the machine.

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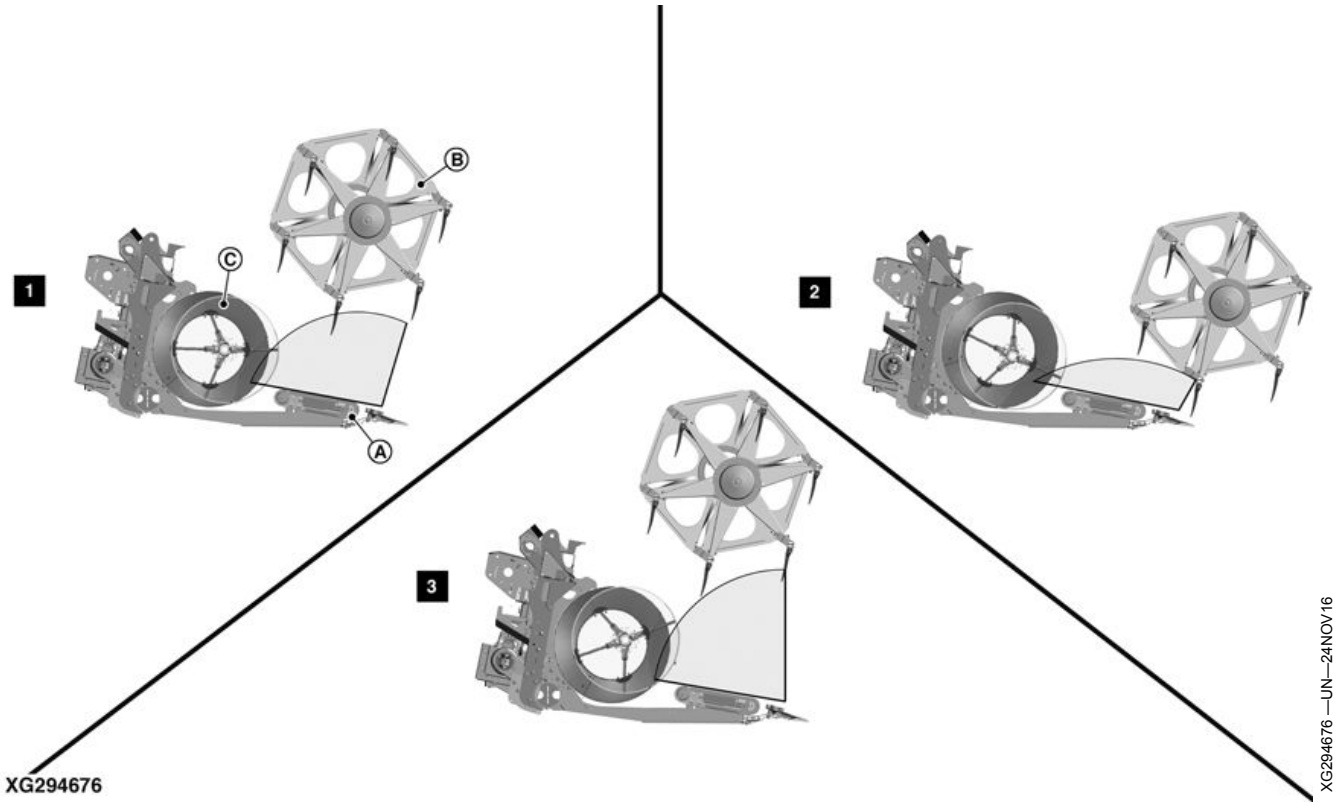
Operate the Cutting Platform—Crop Condition Adaptation



1— Normal Condition **2— Down Crop** **3— Rapeseed** **A—Cutterbar** **B—Reel** **C—Auger**

Above illustration shows how cutterbar position (A), reel (B), and auger (C) work together to feed material. Depending on the crop type and condition (1, 2, 3) the relative position of these components to each other is essential for proper feeding.

Harvesting Oats and Wheat in Standing Crop Conditions: Raise the reel and move it above the knives so that it hardly engages to the crop. Set reel speed slightly faster than ground speed just so much to support the crop flow.

Harvesting Oats and Wheat in Down Crop Conditions: Lower and forward reel to engage the crop in front of the cutterbar. Set reel speed faster than the ground speed to pull the crop into the header and auger. Adjust angle of the auger fingers, if needed.

Reduce belt body drive speed to 70% of the max. speed (1,5 turns clockwise).

Harvesting Oats and Wheat in Damp Ground Conditions: Perform the following adjustments to the cutting platform.

1. Move the reel back and down. Set the reel tines at right angles to the cutterbar.
2. Move the auger down and to the rear (check stripper clearance and adjust them as close as possible to the auger).

Harvesting Oats, Barley, and Wheat (Short, Thin Crop): Install all fingers or the flight extensions.

Harvesting Rapeseed: The husks indicate when to harvest rapeseed. When they are dry and brittle, they are mature.

Mature rapeseed husks can fall out easily when shaken firmly or touched by reel tines and the grain falls to the ground. Adjust the reel position so that any falling grain is caught on the cutting platform belt assembly.

Reduce belt body drive speed to 40% of the max. speed (2,5 turns clockwise).

Lift up the auger to a maximum (see Adjust Auger Height for Rapeseed section).

If necessary adjust the rear strippers.

The crop dividers on the left and right are removed and replaced by side knives.

Rapeseed is sensitive to shatter losses, therefore the reel should be adjusted behind the knives.

Continued on next page

The use of side knives is recommended.

Auger finger adjustment can be set more aggressive to facilitate the transition to the feeder house.

Harvesting Rice:

In crops that are down and badly tangled, set reel so it clears knife and auger. In this position, material is swept back into auger. Reel tines lift downed crops, reduce shattering and provide a more even flow of material to the combine. The tines on reels are angled to lift material before it is cut by the cutterbar. The angle must be selected so a downed crop is uniformly delivered to platform auger.

Basic Settings and Recommendations for Special Conditions

The table shows the basic settings of the feeding components and adjustments that can be done to improve feeding in special conditions.

Except for basics settings, the values are not absolute; they indicate the direction in which the component should be adjusted.

When facing feeding issues always change only one setting at a time in small increments until the problem is solved. If changes on that component cannot solve the issue, return settings to basic and try the next value. Do not do too many changes at one time. Possibility is that one change solves the issue but another one creates a new one.

	Basic Settings		
Strippers	**4 to 5 mm (0.16 to 0.19 in)**		
	All conditions		
Auger Height[a]		**20 mm (0.8 in)**	70 mm (2.8 in)
			Rapeseed —>
Auger Fore/Aft[b]	**40 mm (1.6 in)**		
	All conditions		
Auger Finger[c]	Set to 4:00 o'clock	**Set to 3:00 o'clock**	Set to 2:00 o'clock
	<— Short straw		Bunching —>
			Rapeseed —>
Reel Tines	Fore	**Vertical**	Aft
			Down crop —>
Reel Height	Lower	**Crop heads level**	Raise
	<— Down crop		Rapeseed —>
	<— Tangled		Wrapping —>
	<— Uneven (slugs)		
Reel Fore/Aft	Fore	**At cutterbar level**	Aft
	<— Down crop		Uneven (slugs) —>
	<— Short straw		Damp —>
			Green —>
			Rapeseed —>
Reel Speed	Slow	**Ground speed**	Fast
	<— Grain shattering		Down crop —>
	<— Wrapping		Uneven (slugs) —>
Belt Body Speed	**40% of max. speed**[d]	**70% of max. speed**[e]	**max. speed**
	<— Rapeseed	Green, down crop	Standing crop —>

[a] *Distance between auger flight and auger trough..*
[b] *Distance between auger flight and rear wall.*
[c] *In center of auger*
[d] *2,5 turns clockwise*
[e] *1,5 turns clockwise*

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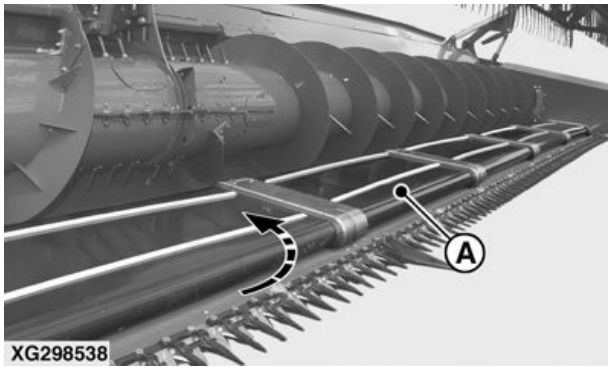
Adjust Belt Body Drive Speed (Up to S.N. 021049)



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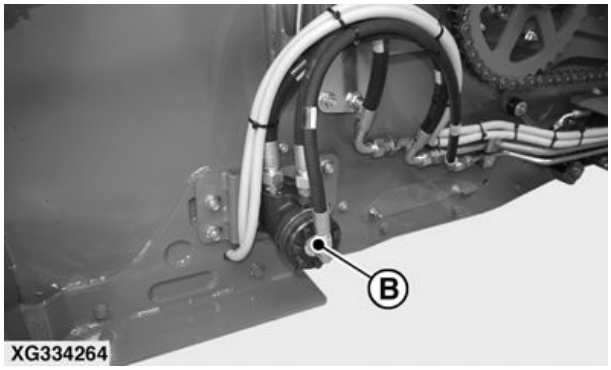

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Depending on the cutting platform model, the belt bodies (A) are driven by one or two motors (B). To adapt the belt drive speed to the harvesting conditions, use the adjusting knob (C) on the control valve (D).

NOTE: On 722PF—735PF: One motor is installed.

On 740PF: Two motors are installed.

NOTE: Also refer to the quick reference decal (E) glued on back of the header frame

- To increase drive speed, turn knob (C) counterclockwise (+).
- To decrease drive speed, turn knob (C) clockwise (-).

Adjust drive speed:

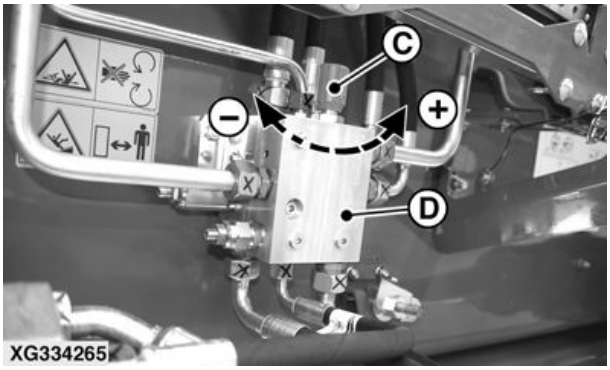
- Under normal harvesting conditions (middle to high yield, mature straw, and standing grain), it is advisable to increase the belt body drive speed to its maximum.

  NOTE: Also set distance between auger flights and cutting platform floor to its minimum. See Adjust Auger Height—Fine Adjustment section.

- Under difficult harvesting conditions (very high yield-especially in barley, very green straw, and lying grain), it is advisable to set the belt body drive speed to 70% of the MAX speed (3.5 turns clockwise).
- In rapeseed harvesting, it is advisable to set the belt body drive speed to 40% of the MAX speed (4 turns clockwise).

  NOTE: Also set distance between auger flights and cutting platform floor to 70 mm (2.76 in). Use special spacers to adjust (see Adjust Auger Height—Rapeseed Adjustment section).

A—Belt Body
B—Motor
C—Adjusting Knob
D—Control Valve
E—Decal



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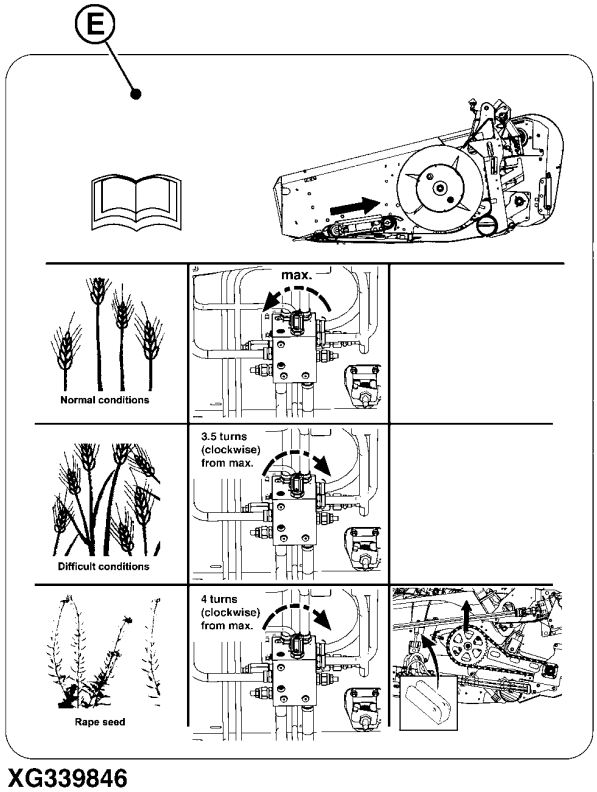

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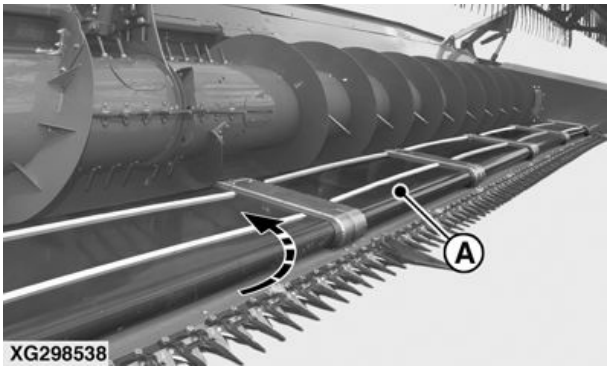
Adjust Belt Body Drive Speed (From S.N. 021050)



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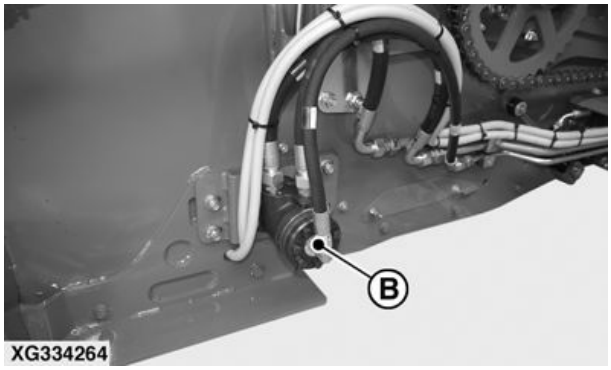

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Depending on the cutting platform model, the belt bodies (A) are driven by one or two motors (B). To adapt the belt drive speed to the harvesting conditions, use the adjusting knob (C) on the control valve (D).

NOTE: On 722PF—735PF: One motor is installed.

On 740PF: Two motors are installed.

NOTE: Also refer to the quick reference decal (E) glued on back of the header frame

- To increase drive speed, turn knob (C) counterclockwise (+).
- To decrease drive speed, turn knob (C) clockwise (-).

Adjust drive speed:

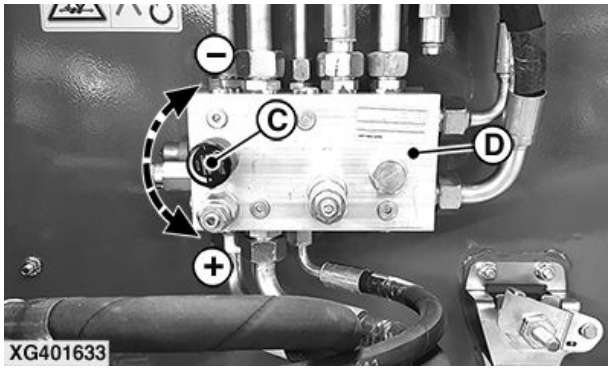
- Under normal harvesting conditions (middle to high yield, mature straw, and standing grain), it is advisable to increase the belt body drive speed to its maximum.

  NOTE: Also set distance between auger flights and cutting platform floor to its minimum. See Adjust Auger Height—Fine Adjustment section.

- Under difficult harvesting conditions (very high yield-especially in barley, very green straw, and lying grain), it is advisable to set the belt body drive speed to 70% of the MAX speed (totally closed, then 1.5 turns counterclockwise).
- In rapeseed harvesting, it is advisable to set the belt body drive speed to 40% of the MAX speed (totally closed, then 1 turn counterclockwise).

  NOTE: Also set distance between auger flights and cutting platform floor to 70 mm (2.76 in). Use special spacers to adjust (see Adjust Auger Height—Rapeseed Adjustment section).

A—Belt Body
B—Motor
C—Adjusting Knob
D—Control Valve
E—Decal



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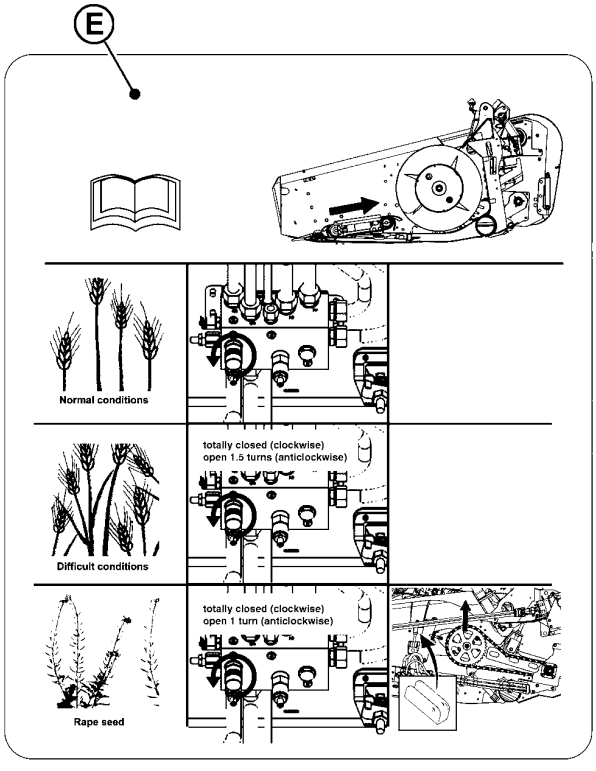

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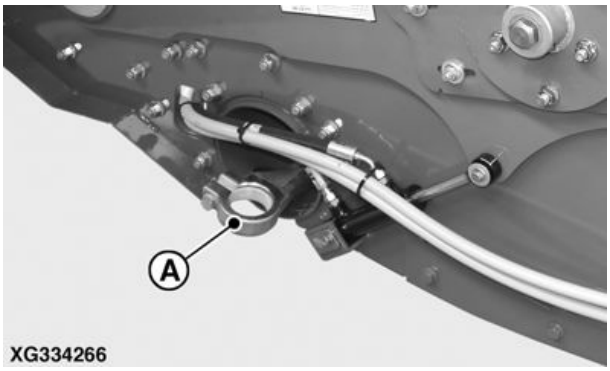
Fine Knife

A fine knife (A) with 14 TPI[1] can be carried in the cutting platform frame.

- **On 722PF—730PF:** One fine knife is carried on the right-hand side only.
- **On 735PF and 740PF:** One knife is carried on the left-hand side, and one on the right-hand side.

A—Fine Knife



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Fine Knife—Right-Hand Side Shown

[1]*Teeth per inch*

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Crop Dividers

Rigid or foldable crop dividers (A) and (B) are available for various crop conditions.

A special deflector (C) can be installed on the outer side of the foldable crop divider (B), as shown.

Short crop dividers are recommended for arid areas.

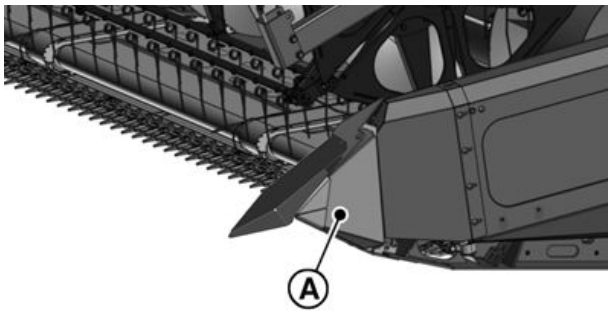
To install crop divider, proceed as follows:

NOTE: Procedure shown with short crop divider (A). Apply same procedure for other crop divider (B).

1. Engage lower hook (D) at the bottom of the cutting platform frame (E), as shown.
2. Pivot the crop divider (A) so that it contacts the cutting platform frame at the top.
3. Use tensioning lever (F) to preload the tensioner (G) until the lock (H) engages.

To remove crop divider (A), press lock (H) and turn tensioning lever (F) outward. Disengage tensioner (G) and completely remove the crop divider assembly (A).

A—Crop Divider—Rigid
B—Crop Divider—Foldable
C—Deflector
D—Hook
E—Frame
F—Tensioning Lever
G—Tensioner
H—Lock



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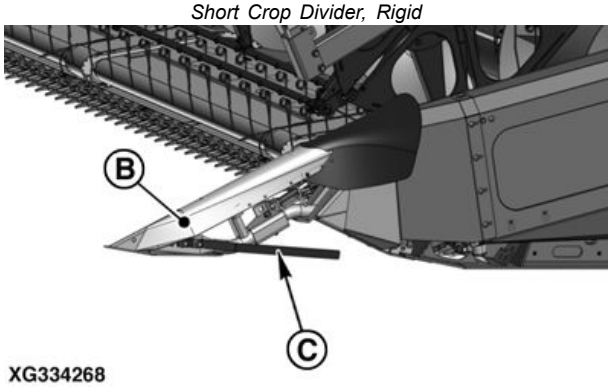
Short Crop Divider, Rigid



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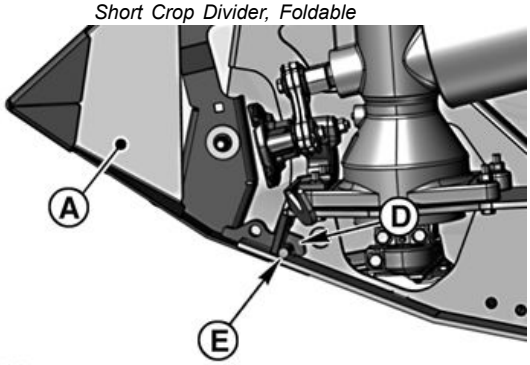
Short Crop Divider, Foldable



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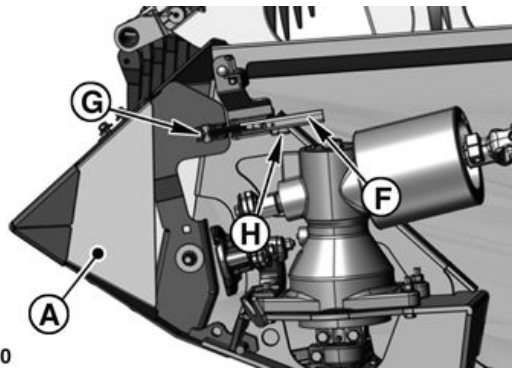

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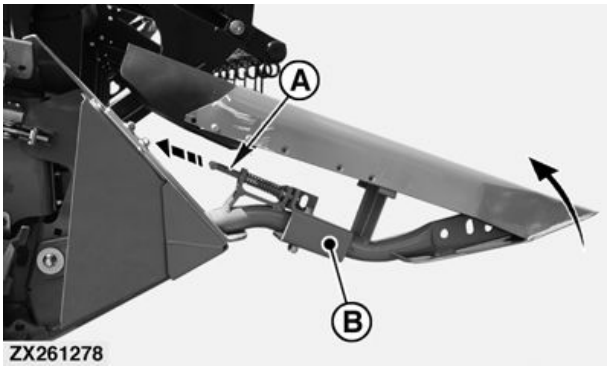
Transport Position

The crop dividers can be folded into transport position for transporting on a trailer.

- Transport position: Pull pin (A) and fold crop divider (B) toward the center of the cutting platform until the pin engages.
- Operating position: Pull pin (A) and fold crop divider (B) out until the pin engages.

A—Pin
B—Crop Divider



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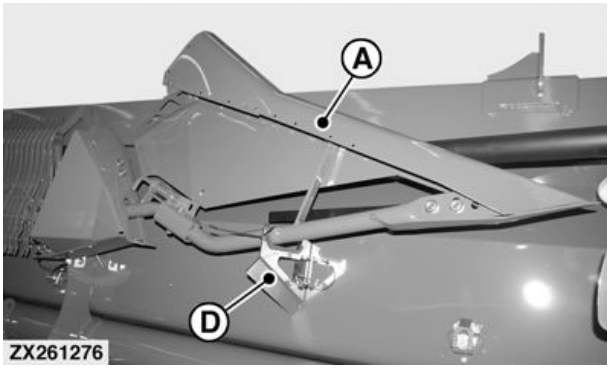
Store Crop Dividers

Store the crop divider (A) on the supporting device as follows:

1. Slide the bottom part of the crop divider (A) onto the receiving pin (B) and secure with quick-lock pin (C).
2. Place the front part of the crop divider (A) on support (D) and secure top part with quick-lock pin (C).

A—Crop Divider
B—Pin
C—Quick-Lock Pin
D—Support



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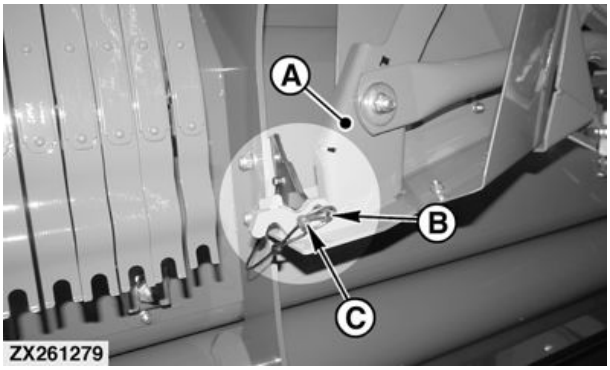

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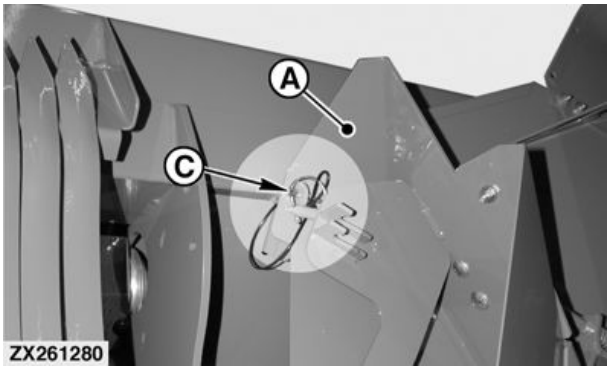

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Rapeseed Knife

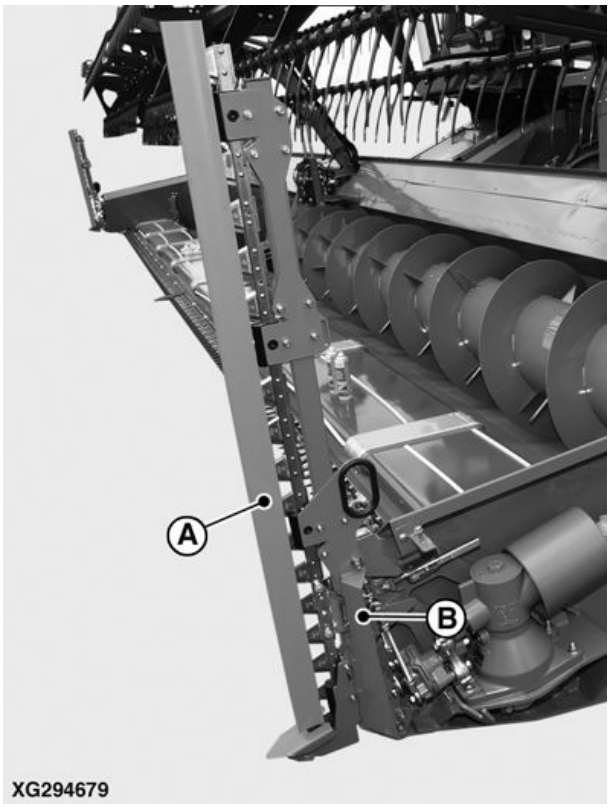
CAUTION: Always keep protection guard (A) installed on rapeseed knife when installing or storing rapeseed knife assembly (B) on cutting platform.

To install the rapeseed knife, proceed as follows:

1. Engage lower hook (C) at the bottom of the cutting platform frame (D), as shown.
2. Pivot the rapeseed knife assembly (B) so that it contacts the cutting platform frame at the top, and check that knife drive clutch (E) matches with the clutch (F) of the cutterbar drive gear case, as shown. If not, release screws (G) then adjust the tie rod (H) length accordingly. Tighten screws (G).

IMPORTANT: Adjust both tie rods to the same length.

A—Protection Guard
B—Rapeseed Knife Assembly
C—Hook
D—Frame
E—Clutch—Rapeseed Knife Side
F—Clutch—Cutterbar Drive Side
G—Screw
H—Tie Rod (2 used)



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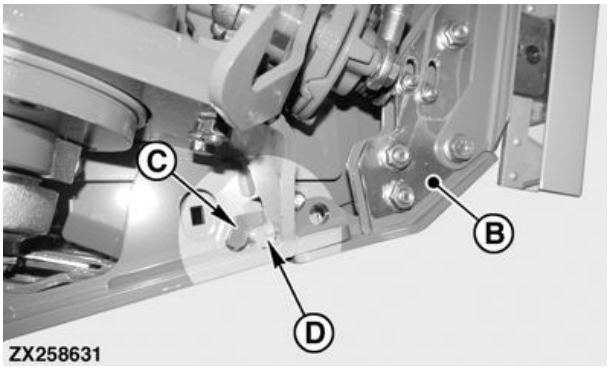

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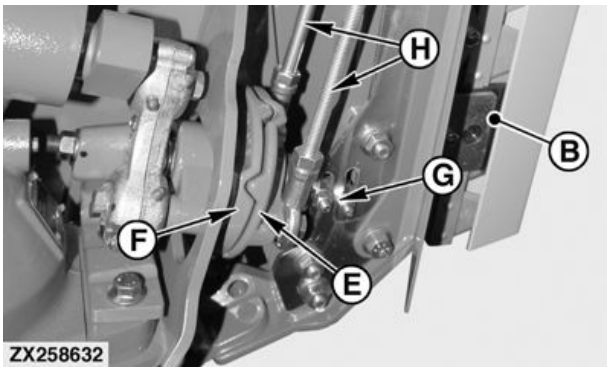

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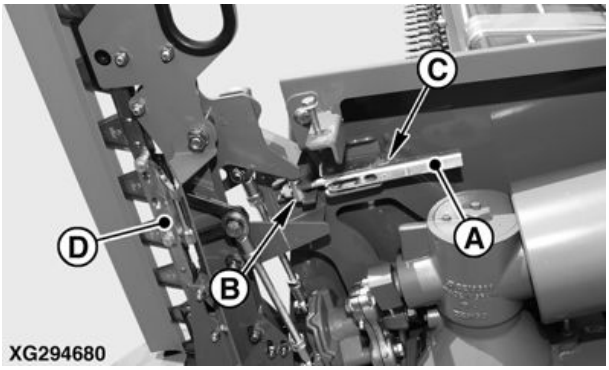
3. Use tensioning lever (A) to preload the tensioner (B) until the lock (C) engages.

   IMPORTANT: When preloaded, the frame of the rapeseed knife assembly (D) must be tight against the cutting platform frame. If necessary, set tensioner (B) to obtain the correct preload.

To remove the rapeseed knife (D), press lock (C) and turn tensioning lever (A) outward. Disengage tensioner (B) and completely remove the rapeseed knife assembly (D).

A—Tensioning Lever
B—Tensioner
C—Lock
D—Rapeseed Knife



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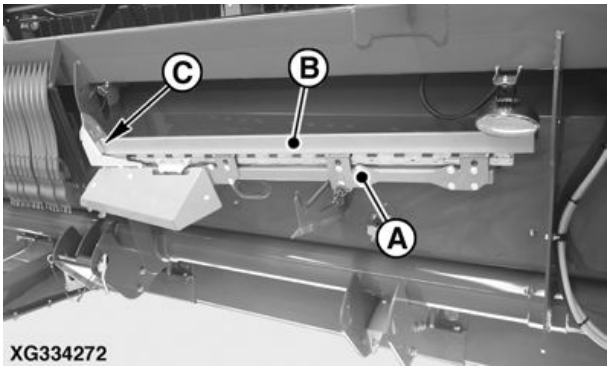
Store Rapeseed Knives

CAUTION: Always store rapeseed knife (A) with the protection guard (B) installed on knife. To secure the guard (B) in place, engage the protection guard (B) into groove (C) of the crop divider. Always remove and store the rapeseed knives on the supporting device when transporting cutting platform on a trailer.

Store the rapeseed knife assembly (A) on the supporting device as follows:

1. Slide the bottom part of the rapeseed knife assembly (A) onto the receiving pin (D) and secure with quick-lock pin (E).
2. Place the top part of the rapeseed knife assembly (A) on support (F) and secure with quick-lock pin (E).

A—Rapeseed Knife
B—Protection Guard
C—Groove
D—Pin
E—Quick-Lock Pin
F—Support



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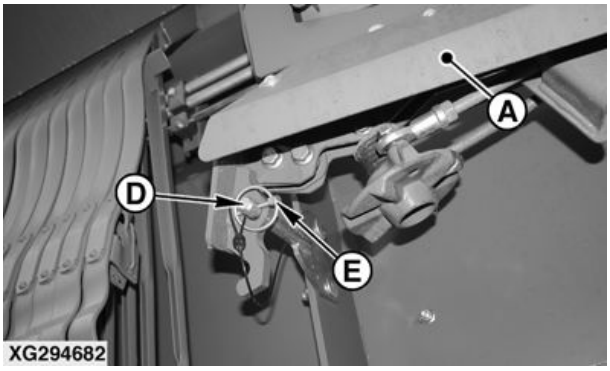

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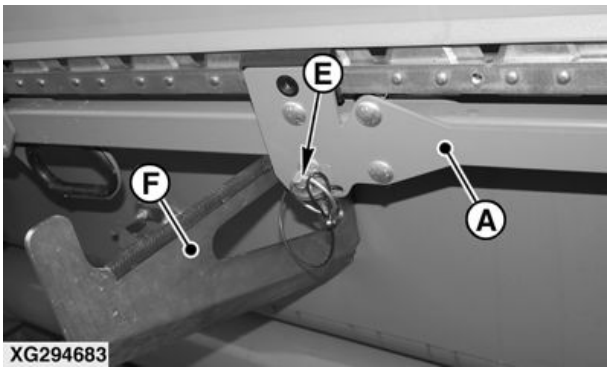

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Lifting Guards

Arrangement of Lifting Guards

The arrangement of lifting guards (A) results from the position of the pre-installed attaching points (B) underneath certain knife guards.

Slide lifting guard with its retainer (C) over the relevant knife guard and guide the rear end of the strap into the pre-installed attaching point.

Secure lifting guard (A) with spring pin (D) in bore (2) above the knife guard.

IMPORTANT: On 735PF and 740PF only, to avoid crop accumulation at the level of the central knife deflector (F), make sure that lifting guard attaching points (B) are not less than three bolts away from the center knife section, as shown.

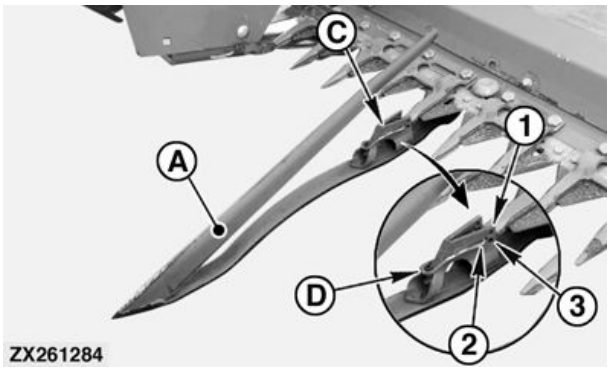
Adapt Lifting Guards to Ground Conditions

IMPORTANT: Check that lifting guards are correctly adjusted by lowering the cutting platform onto a flat surface. Lifting guards should touch the ground when skid plates are 50—100 mm (2—4 in) above the ground.

If necessary, change position of lifting guard by using bores (1) or (3) to secure spring pin (D). This alters the height of the lifting guards.

When not used, store lifting guards (A) at the rear of the cutting platform frame on special supports (E) as shown.

A—Quik-Tatch™ Lifting Guard
B—Rear Attaching Points
C—Retainer
D—Spring Pin
E—Support
F—Central Knife Deflector
1—Bore
2—Bore
3—Bore



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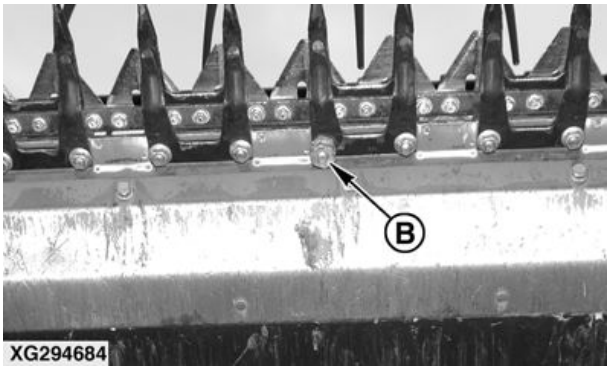

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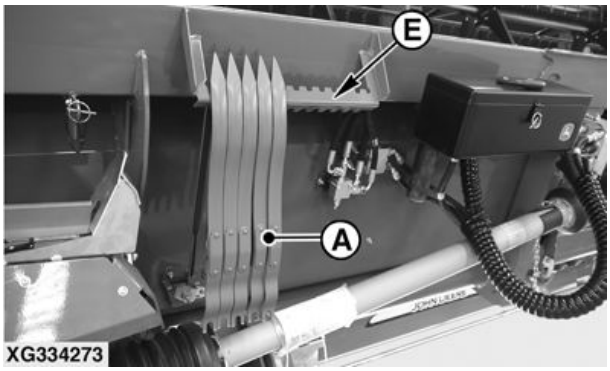

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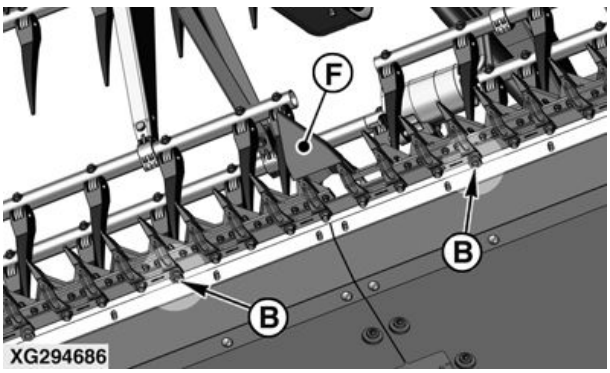

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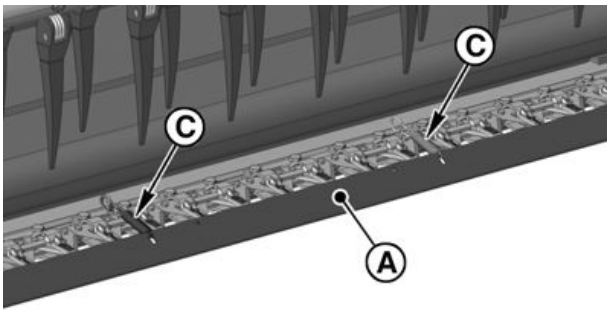
Knife Protection Guard (If Equipped)

A V-profile knife protection guard (A) must be used during transport and when the cutting platform is stored.

Slide the knife protection guard (A) over the tips of the knife guards or over the tips of the lifting guard (B) and secure with locking spring (C).

A—Knife Protection Guard
B—Lifting Guard
C—Locking Spring



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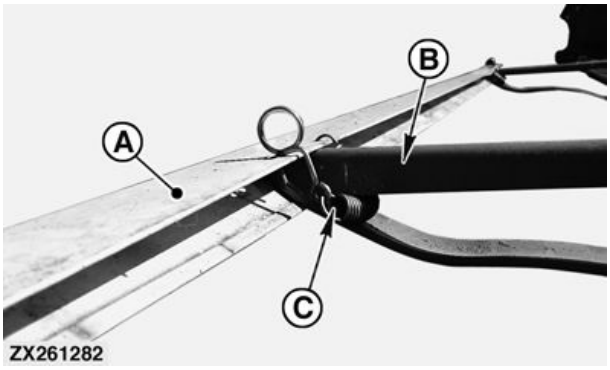

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Troubleshooting

Cutterbar Difficulties

Symptom	Problem	Solution
Grain shatters ahead of cutterbar	Reel speed not matched to ground speed	Adjust reel speed so that the reel moves the crop evenly. In standing crops, reel speed should be equal to or slightly less than combine ground speed. In down and tangled crops, reel speed should be greater than combine ground speed.
	Reel set too low	Raise the reel.
	Combine ground speed too high	Reduce combine ground speed to avoid that crops are not shattered by reel.
Cut crop accumulates and falls ahead of cutterbar; loss of grain heads at cutterbar	Reel set too high	Set reel low enough to sweep material away from the cutterbar, allowing it to be picked up evenly by the auger.
	Not enough ledge for crop travel	Extend cutterbar further forward.
	Excessive clearance between auger flights and platform floor	Adjust auger to give 20—25 mm (0.78—0.98 in) clearance in grain crops and 70—75 mm (2.75—2.95 in) clearance in crops such as rapeseed and soybeans. Readjust feeder fingers as appropriate.
	Reel speed too low	Increase reel speed.
Mat of green material builds up on cutterbar		Use knife with finely serrated knife sections.

Continued on next page

Down and Tangled Crops Difficulties

Symptom	Problem	Solution
Too much material entering combine	Cutting platform set too low	Use lifting guards in down and tangled crops.
		Raise platform as high as possible.
		Reduce ground speed
		Use knife with finely serrated knife sections.
		Check the angle at which the cutting platform is tilted.

Feeder House Difficulties

Symptom	Problem	Solution
Uneven or bunched feeding of the crop to bottom feeder conveyor drum	Auger too far from the platform floor	Adjust auger to suit crop.
	Reel set too high	Move reel back and then down.
	Grain building up on cutterbar	Lower reel.
		Set reel as close as possible to cutterbar and auger.
	Platform drive belt slipping	Spring-loaded idler must be free and tight against belt.
Difficulty conveying short crop from the platform auger to the feeder house	Auger too far from the feeder conveyor chain	
	The conveyor chain of the feeder house does not convey properly	See Combine Operator's Manual.

Auger Difficulties

Symptom	Problem	Solution
Auger wrapping in tangled and weedy crops	Poor delivery of the crop from auger to the feeder house	Remove paint and rust from auger finger area.
		Install extended pitch auger flight extensions and remove center auger fingers.
Poor delivery of the crop to auger	Reel tines pitched too far	Reduce pitch (angle) of tines.

Continued on next page

Cutting Difficulties

Symptom	Problem	Solution
Ragged and uneven cutting of crop	Cutterbar plugged with material	Adjust reel to sweep material off cutterbar. Check platform and feeder house drives (see Combine Operator's Manual).
	Various parts of cutterbar worn, damaged, or broken	Check and replace all worn or damaged parts. Check guard alignment and, if necessary, align for a smooth cut.
	Cutting edge of guards is not close enough or parallel to knife sections	Adjust guards.

Reel Difficulties

Symptom	Problem	Solution
Reel wrapping in tangled and weedy crops	Incorrect reel setting	Lower reel and set it as far forward as possible.
Reel carrying straw around	Reel tines pitched too far	Reduce pitch (angle) of tines.
Green material not feeding from cutterbar to auger	Reel tines pitched too far	Reduce pitch (angle) of tines.

Belt Body Difficulties

Symptom	Problem	Solution
Belt does not turn	Straw underneath the belt	Raise belt body and clean it.
	Coupler broken	Check claw couplers attached to the relevant belt body.
All belt segments do not turn	Coupler broken	Check couplers attached to the hydraulic motor.

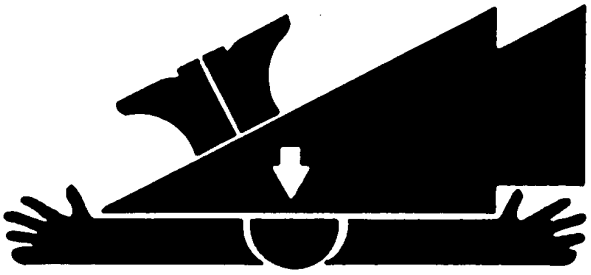
OUCC002,00055B5 -19-01NOV17-3/3

Safety Stop for Feeder House Lift Cylinder

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

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

Before working under the cutting platform, raise it fully and put safety stop on the hydraulic cylinder.



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Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop

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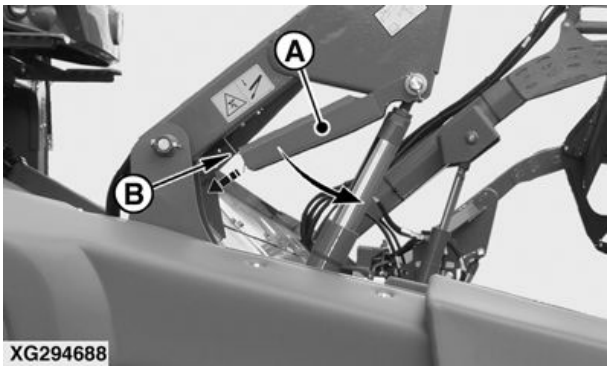
Set Safety Stop for Reel Lift Cylinder

CAUTION: Always set the safety stops (A) and (C) when working on or under the reel.

IMPORTANT: To avoid damage to the hydraulic cylinder, slowly lower the safety stop (A).

Fully raise the reel.

On both sides, unhook safety stop (A) from spring retainer (B) and lower completely. Make sure that safety stop (A) is engaged around cylinder rod, then lower the reel.



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A—Safety Stop **B—Spring**

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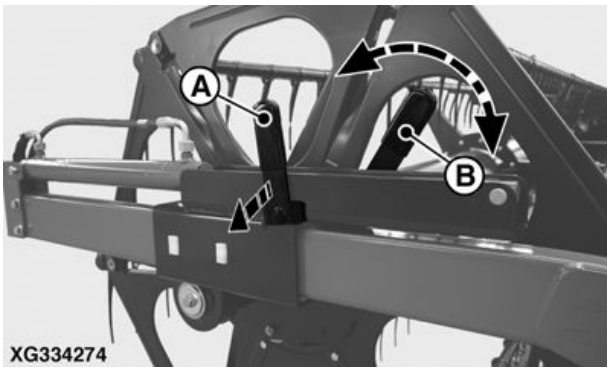
Adjust Reel Tine Pitch

CAUTION: Shut off the engine before working on reel.

Pull out locking pin (A). Turn adjusting lever (B) to set the desired reel tine pitch. Engage locking pin (A) to maintain the setting. Repeat on the opposite side of the reel.

A—Locking Pin **B—Adjusting Lever**



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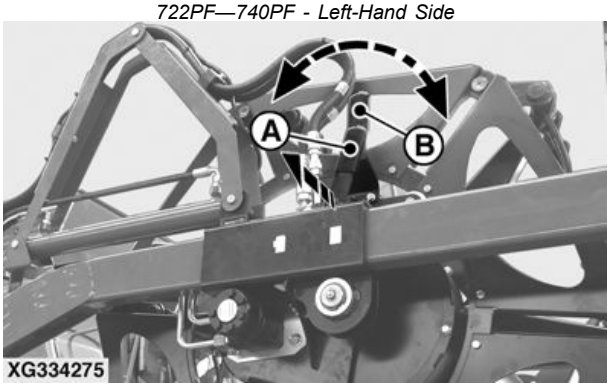
722PF—740PF - Left-Hand Side



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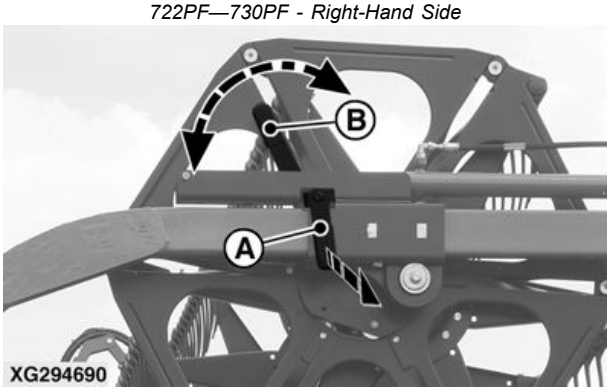
722PF—730PF - Right-Hand Side



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735PF and 740PF - Right-Hand Side

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Adjust Auger Height—Fine Adjustment

The auger conveys the material of the whole platform width to the center and delivers it to the feeder house.

A proper handover to the machine has influence on the performance of the whole combine. Correct adjustments of the auger can improve losses and throughput (see **Operate the Cutting Platform—Crop Condition Adaptation** in this section).

CAUTION: To allow access to the bearing support (in the middle of the cutting platform), raise cutting platform about 20 cm (10 in) above the ground. Raise the reel completely and engage safety stops. Shut OFF engine, set parking brake, and remove key.

Avoid serious injury from cutterbar movement when auger turns.

IMPORTANT: Adjust the auger height with the platform attached to the combine and lifted from the ground. The frame of the platform settles and all adjustments made to the auger when lying on the ground or on a trailer can result in improper feeding or lead to component damages.

Distance of auger flight to the auger trough is important for a consistent feeding. This distance defines the volume that one winding of the auger can transport and must be adjusted to the crop.

Basic setting for this distance is **20—25 mm (0.78—0.98 in)**. For crops with a high percentage of MOG (Material other than Grain) (for example, Canola), the distance can be increased accordingly.

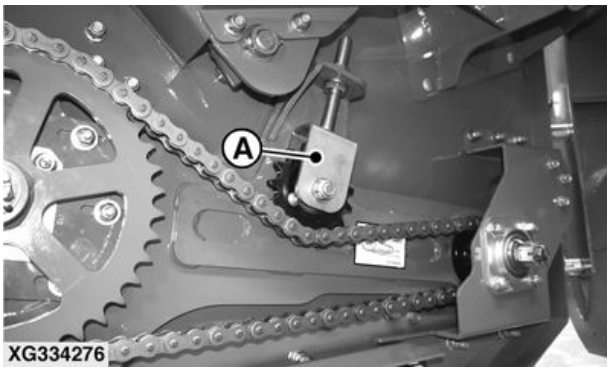
For the rapeseed crop, it is advisable to set the distance to **70—75 mm (2.75—2.95 in)** by using dedicated spacers (See **Adjust Auger Height—Rapeseed Adjustment** section).

To adjust auger height, proceed as follows:

1. Do not modify the adjustment of the tensioner (A).
2. **735PF—740PF Only:** On both sides of the bearing support, loosen the three bolts (B) and the lock nut (C).
3. **735PF—740PF Only:** Adjust the auger height in the middle by using both adjusting nuts (D), then tighten lock nuts (C).

IMPORTANT: Measure the distance between the auger flights and the cutting platform floor. Make sure to adjust the height equally on both sides of the bearing support so that support stays centered and vertical between the two halves of the auger.

4. **735PF—740PF Only:** Tighten the six bolts (B) to **280 N·m (206 lb·ft)**.
5. Align the sides of the auger by adjusting the position of the outer arms (E) with the flange nut (F), then tighten lock nut (G). Measure the distance between the auger flights and the cutting platform floor next to the side walls.



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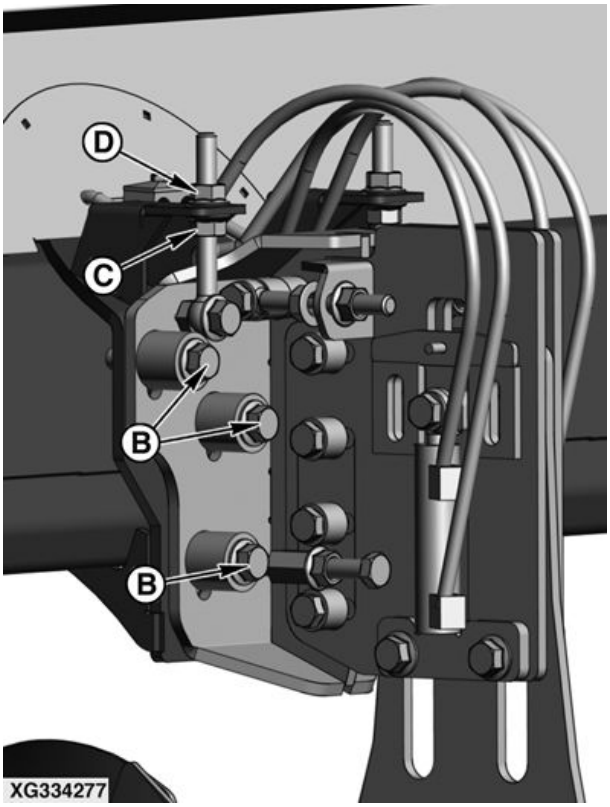

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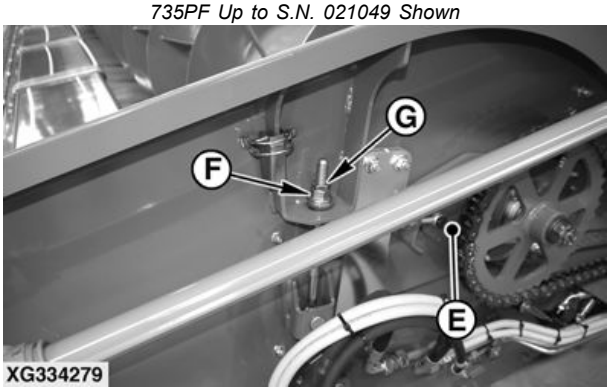
735PF Up to S.N. 021049 Shown



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A—Tensioner
B—Bolt (6 used)
C—Lock Nut (2 used)
D—Adjusting Nut (2 used)
E—Arm
F—Flange Nut
G—Lock Nut

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OUCC002,00063EE -19-03MAR20-2/3

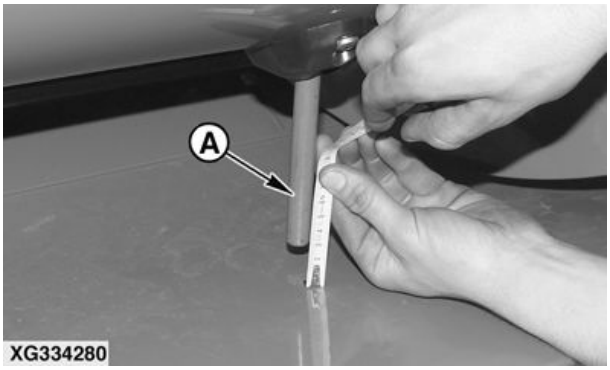
6.

IMPORTANT: To avoid damaging cutting platform floor or auger fingers, maintain a minimum clearance of 20 mm (0.78 in) between the center of auger fingers and the floor.

Make sure to measure clearance in the center of the auger.

Check auger finger (A) height (see **Adjust Auger Finger Timing** in this section).

A—Auger Finger



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OUCC002,00063EE -19-03MAR20-3/3

Adjust Auger Height—Rapeseed Adjustment

The auger conveys the material of the whole platform width to the center and delivers it to the feeder house.

A proper handover to the machine has influence on the performance of the whole combine. Correct adjustments of the auger can improve losses and throughput (see **Operate the Cutting Platform—Crop Condition Adaptation** and **Adjust Auger Height—Fine Adjustment** in this section).

For rapeseed crop, it is advisable to set the distance to **70—75 mm (2.75—2.95 in)** by using dedicated spacers.

CAUTION: To allow access to the bearing support (in the middle of the cutting platform), raise cutting platform about 20 cm (10 in) above the ground. Raise the reel completely and engage safety stops. Shut OFF engine, set parking brake, and remove key.

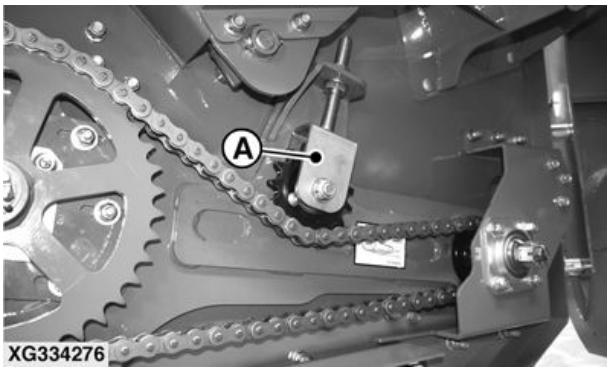
Avoid serious injury from cutterbar movement when auger turns.

IMPORTANT: Adjust the auger height with the platform attached to the combine and lifted from the ground. The frame of the platform settles and all adjustments made to the auger when lying on the ground or on a trailer can result in improper feeding or lead to component damages.

To adjust auger height, proceed as follows:

1. Do not modify the adjustment of the tensioner (A).
2. Remove lever (B) from its storage anchor.
3. Engage lever (B) into receptacle (C) of hydraulic pump (D).
4. On both sides, remove spacer (E) from its storage location.
5. **735PF—740PF Only:** Remove quick-lock pin (F) and the spacer assembly (G) from their storage location.

A—Tensioner
B—Lever
C—Receptacle
D—Hydraulic Pump
E—Spacer
F—Quick-Lock Pin (735PF, 740PF)
G—Spacer (735PF, 740PF)



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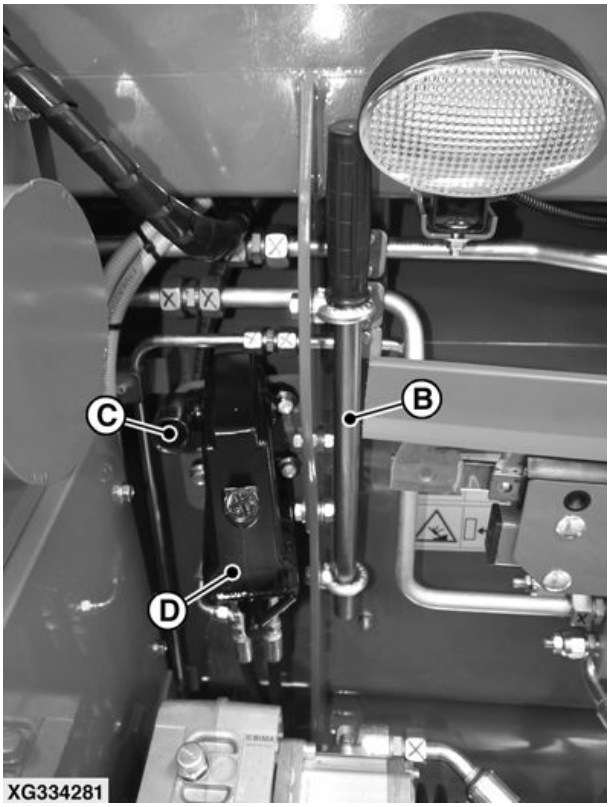

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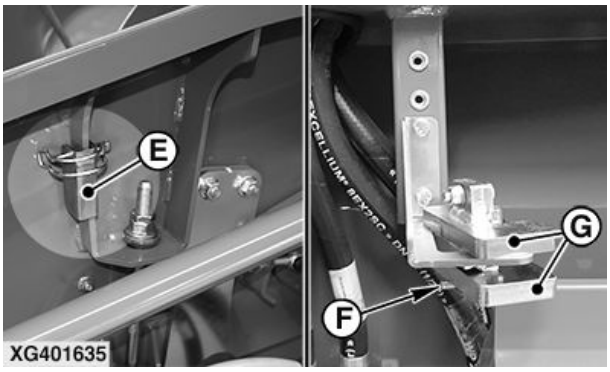

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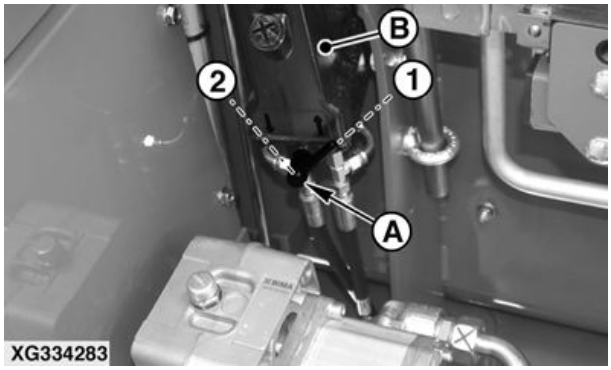
6. To lift the auger, set the control lever (A) on manual pump (B) to position **(1 —Arrow up)**.
7. Actuate the lever (C) and fully lift auger arms (D) up.
8. On both sides, engage one spacer (E) and retain with quick-lock pin (F), as shown.

A—Lever
B—Pump
C—Lever
D—Arm
E—Spacer
F—Quick-Lock Pin
1—Arrow Up—Lifting Position
2—Arrow Down—Lowering Position



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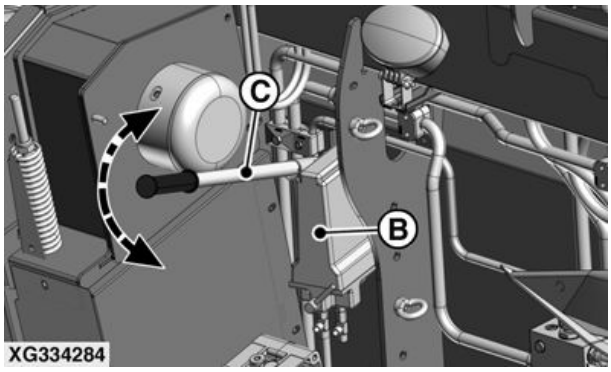

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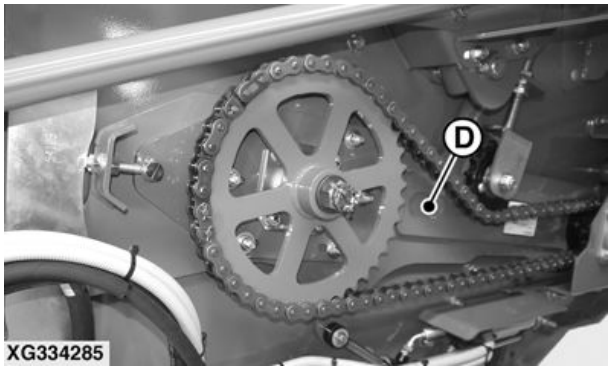

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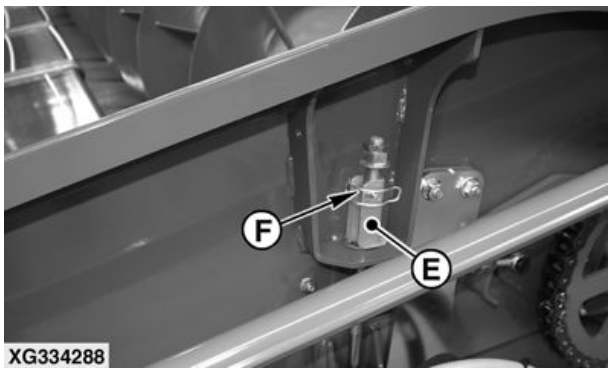

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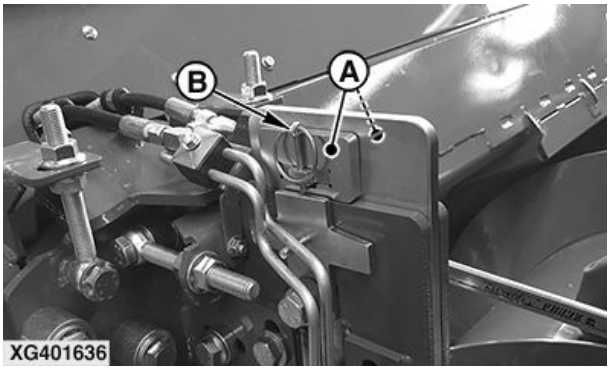
9. **735PF—740PF Only:** On center support, install the spacer assembly (A), then secure with quick-lock pin (B) as shown.
10. To lower the auger, set the control lever (C) on manual pump (D) to position **(2 —Arrow down)**.
11. Actuate the lever (E) as far as possible to lower the auger and apply hydraulic pressure to the auger arms (F).

A—Spacer (735PF, 740PF)
B—Quick-Lock Pin (735PF, 740PF)
C—Lever
D—Pump
E—Lever
F—Arm
1—Arrow Up—Lifting Position
2—Arrow Down—Lowering Position



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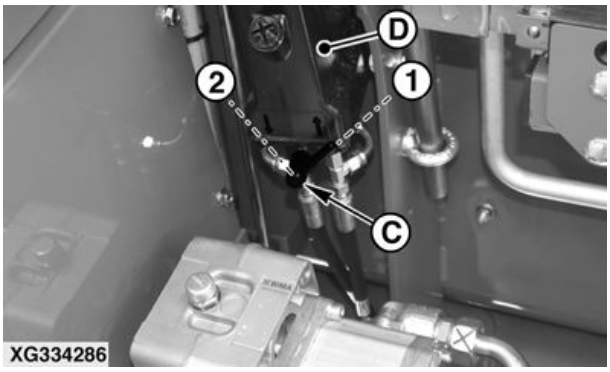

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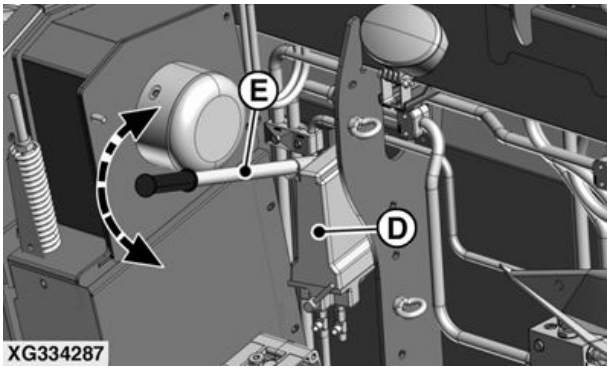

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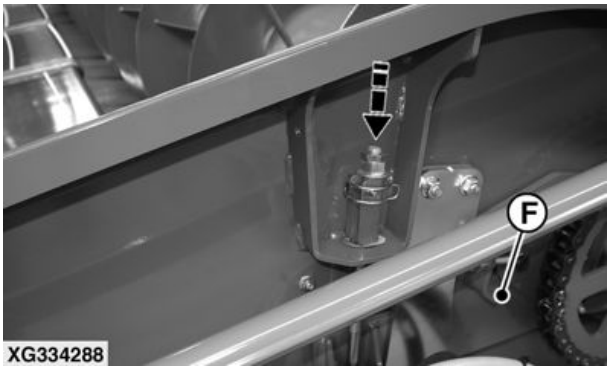

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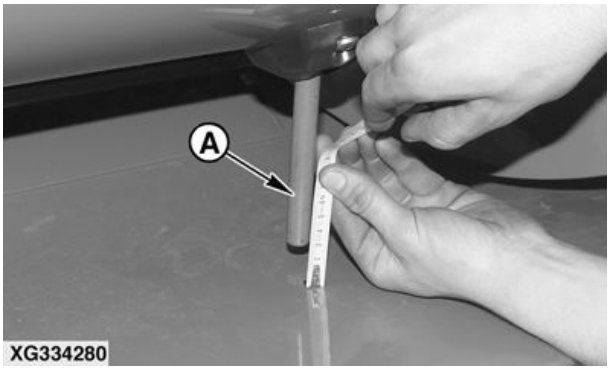
12.

IMPORTANT: To avoid damaging cutting platform floor or auger fingers, maintain a minimum clearance of 20 mm (0.78 in) between the center of auger fingers and the floor.

Make sure to measure clearance in the center of the auger.

Check auger finger (A) height (see **Adjust Auger Finger Timing** in this section).

A—Auger Finger



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Adjust Auger Fore/Aft

CAUTION: To allow access to the bearing support (in the middle of the cutting platform), raise cutting platform about 20 cm (10 in) above the ground. Raise the reel completely and engage safety stops. Shut OFF engine, set parking brake, and remove key.

Avoid serious injury from cutterbar movement when auger turns.

The auger conveys the material of the whole platform width to the center and delivers it to the feeder house.

A proper handover to the machine has influence on the performance of the whole combine. Correct adjustments of the auger can improve losses and throughput (see **Operate the Cutting Platform—Crop Condition Adaptation** in this section).

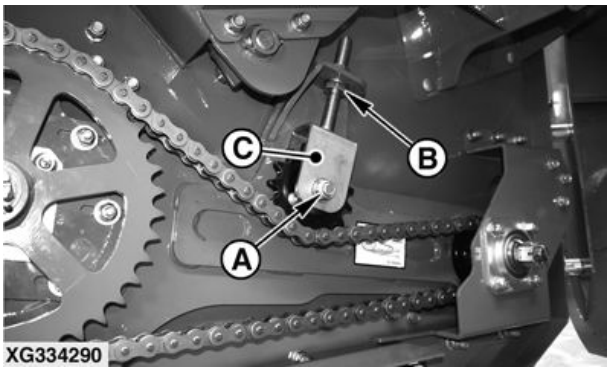
IMPORTANT: Adjust the auger fore/aft with the platform attached to the combine and lifted from the ground. The frame of the platform settles and all adjustments made to the auger when lying on the ground or on a trailer can result in improper feeding or lead to component damages.

A smooth transition to the feeder house is depending on the distance of auger body to feeder house intake drum. The distance can be measured in the feeder house opening. To adjust the auger straight over the whole width, this dimension is achieved with a distance of about **40 mm (1.57 in)** of auger flight to rear wall of the cutting platform.

To adjust auger fore/aft, proceed as follows:

1. Loosen self-locking nut (A) and lock nut (B) of the tensioner (C), then release tension on chain.
2. On both sides, loosen all the clamp nuts (D) and lock nut (E).
3. **735PF—740PF Only:** On both sides of the center support, loosen the lock nuts (F).
4. **735PF—740PF Only:** To maintain the center support adjustment, place a wood block between the back of the auger and the rear wall.
5. **735PF—740PF Only:** Loosen the four clamp screws (G).

A—Self-Locking Nut
B—Lock Nut
C—Tensioner
D—Clamp Nut
E—Lock Nut
F—Lock Nut (4 used) - (735PF, 740PF)
G—Clamp Screw (4 used) - (735PF, 740PF)



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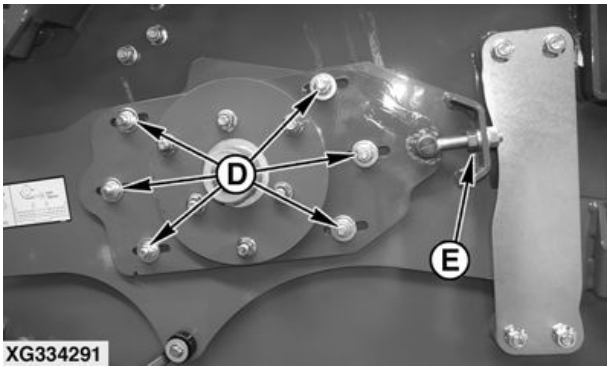

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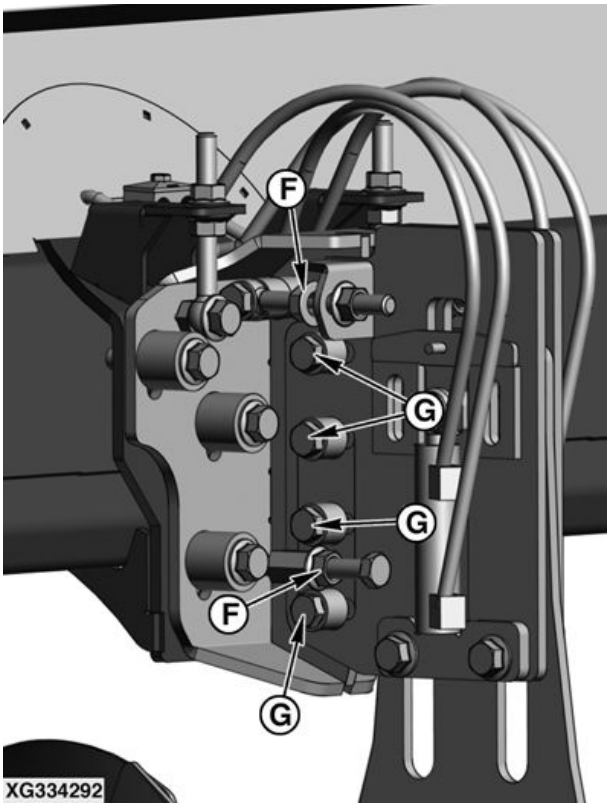

XG334292 —UN—18DEC17

735PF Up to S.N. 021049 Shown

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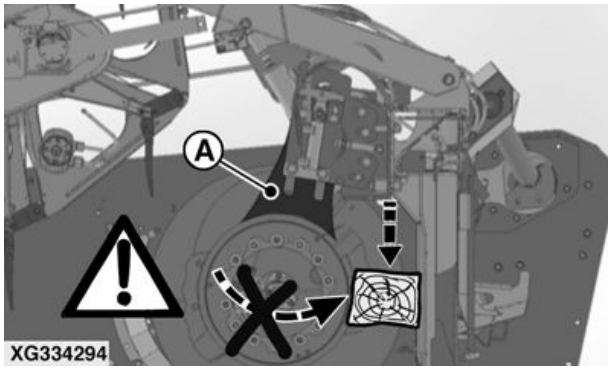
IMPORTANT: Make sure the arm (A) is not turning backwards.

6. To adjust fore/aft position of auger, use adjusting nuts (B), (C), and adjusting screws (D).

A—Arm (735PF, 740PF)
B—Adjusting Nut
C—Adjusting Nut (2 used) - (735PF, 740PF)
D—Adjusting Screw (2 used) - (735PF, 740PF)



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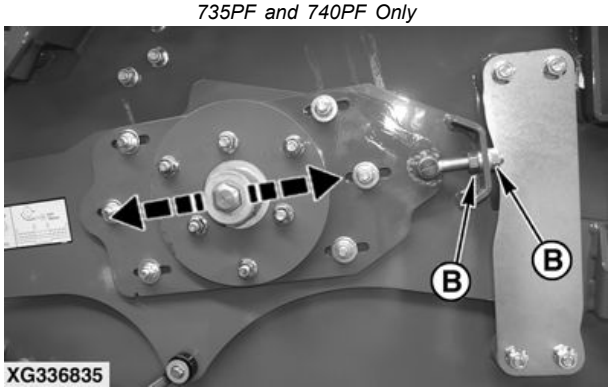
735PF and 740PF Only



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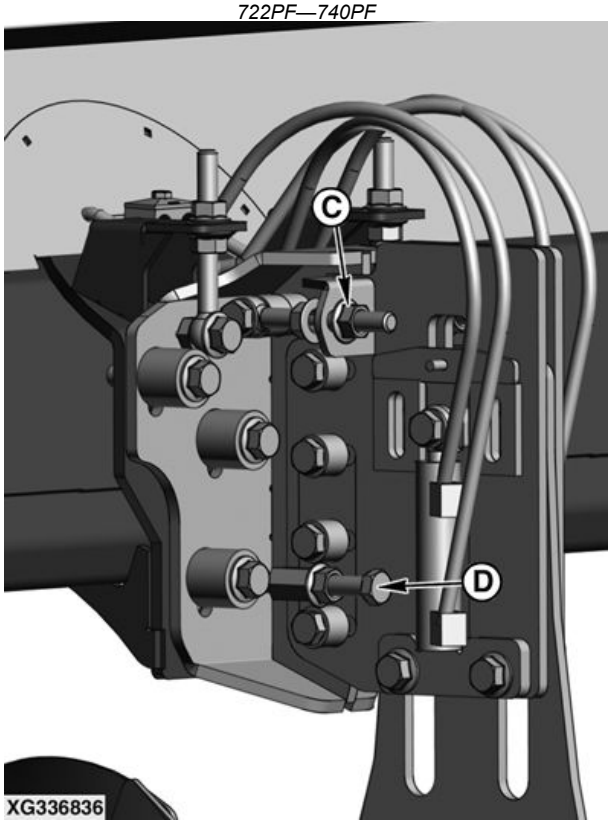
722PF—740PF



XG336836 —UN—18DEC17

735PF Up to S.N. 021049 Shown

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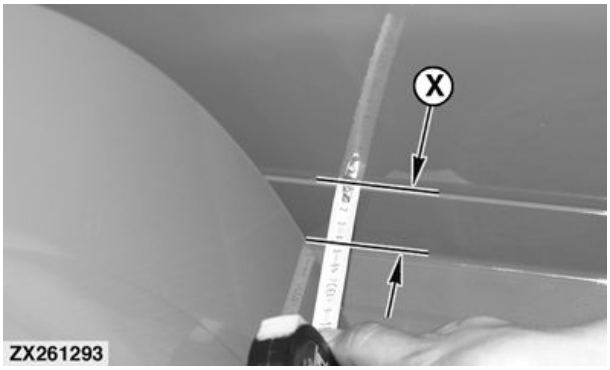
7. Recommended distance (X) to the rear wall of the cutting platform is **40 mm (1.57 in)**.

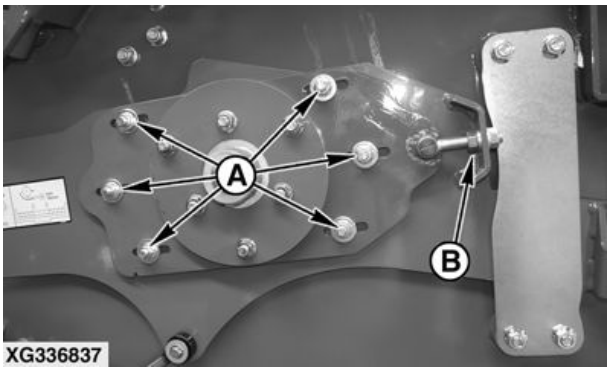
IMPORTANT: Rotate auger by hand to check clearance between auger fingers and cutting platform floor.

8. On both sides, tighten clamp nuts (A) to **130 N·m (90 lb·ft)**, then tighten lock nut (B).
9. **735PF—740PF Only:** On center support, tighten lock nuts (C). Tighten all clamp screws (D) to **280 N·m (206 lb·ft)**.

A—Clamp Nut
B—Lock Nut
C—Lock Nut (2 used) - (735PF, 740PF)
D—Clamp Screw (4 used) - (735PF, 740PF)



ZX261293 —UN—22OCT15



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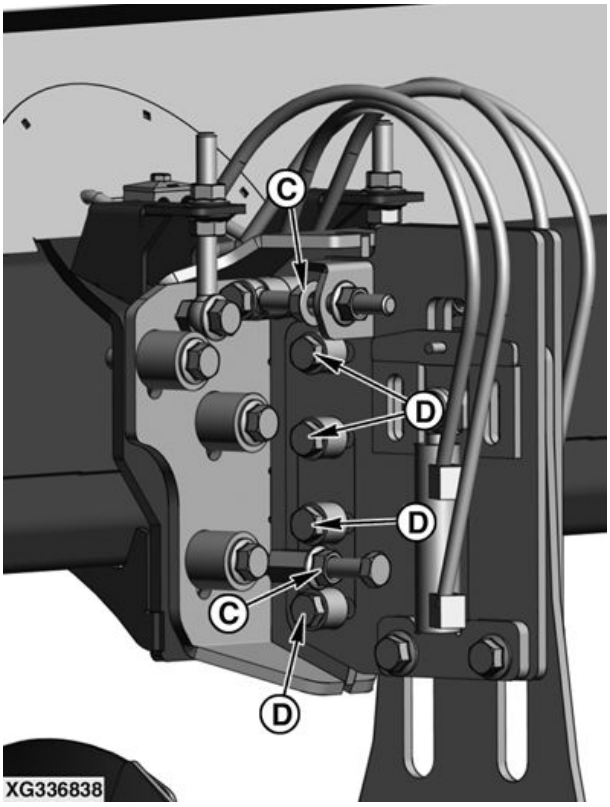

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735PF Up to S.N. 021049 Shown

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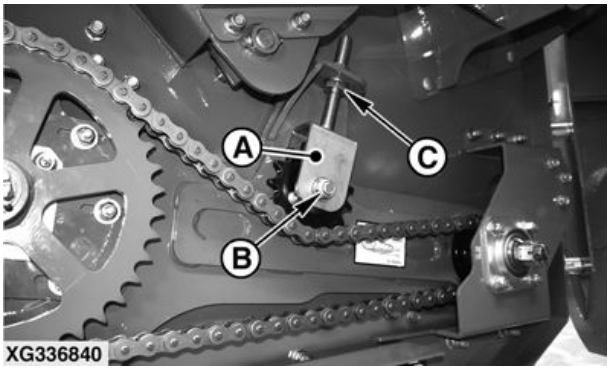
10. Adjust tensioner (A) so that a chain tension slack of **15—35 mm (0.6—1.4 in)** on the opposite strand is obtained. Tighten self-locking nut (B) and lock nut (C).

IMPORTANT: To avoid damaging cutting platform floor or auger fingers, maintain a minimum clearance of 20 mm (0.78 in) between the center of auger fingers and floor.

Make sure to measure clearance in the center of the auger.

11. Check auger finger (D) height (see **Adjust Auger Finger Timing** in this section).

A—Self-Locking Nut
B—Lock Nut
C—Tensioner
D—Auger Finger



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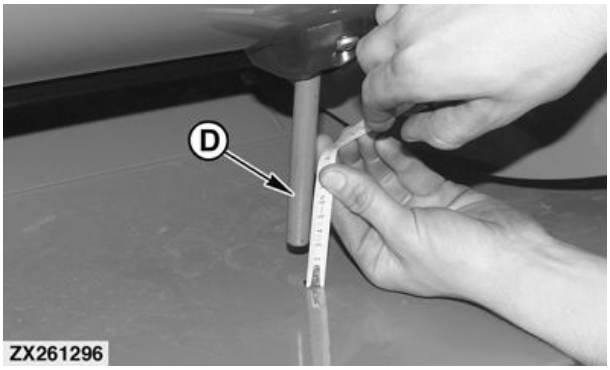

ZX261296 —UN—22OCT15

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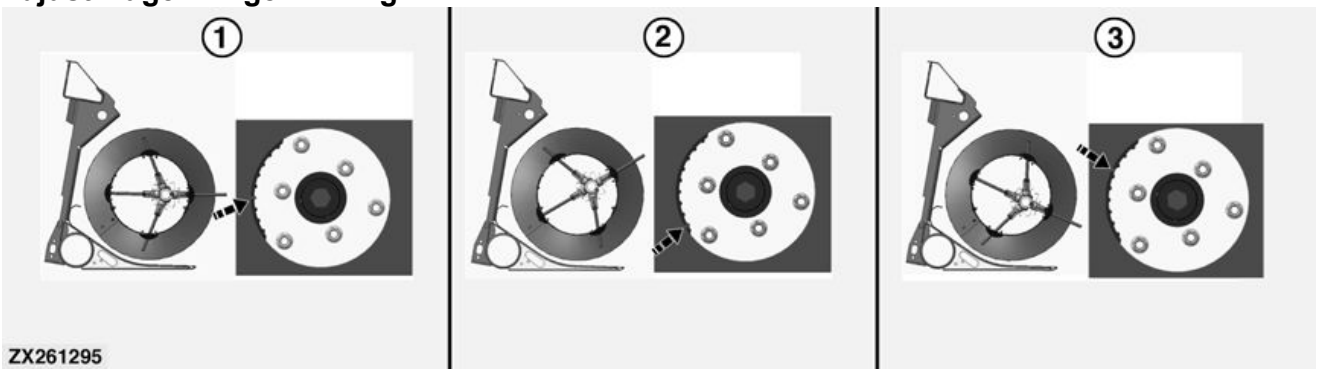
Adjust Auger Finger Timing



ZX261295 —UN—22OCT15

⚠ CAUTION: Shut OFF engine and remove key before working on auger.

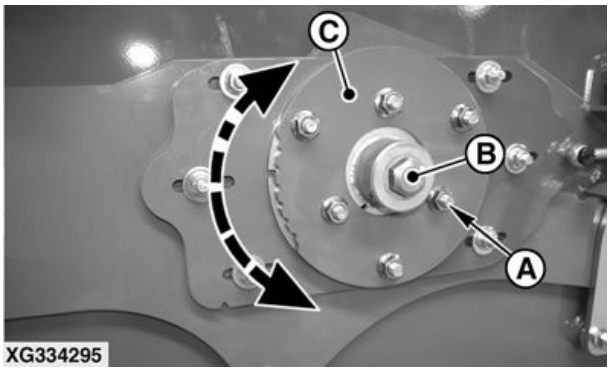
Auger fingers pull the material underneath the auger and push it to the feeder house.

Nominal timing is when maximum finger extension occurs in the fully forward and horizontal (3:00 o'clock as viewed from the right-hand end) position **(1)**.

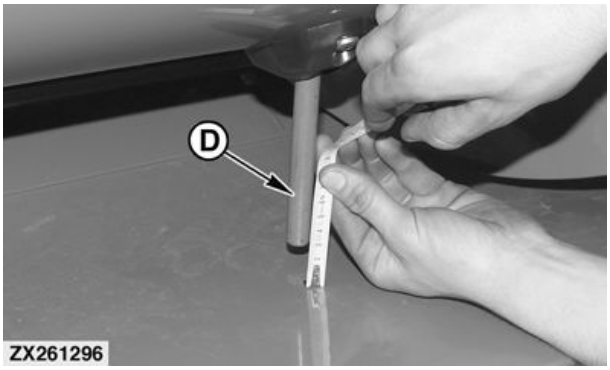
Depending on the crop conditions the fingers must be adjusted:

- To feed high amounts of material, rapeseed, or if crop builds up in front of the auger, the timing can be set to 2:00 o'clock position **(2)**. In this position, maximum extension is early during the revolution and the fingers pull crop down more aggressively.
- In short crops where less material needs to be conveyed, the fingers should be longer when they pass underneath the auger. This can be achieved by changing the timing to approximately 4:00 o'clock position **(3)**.

NOTE: Notch in the adjustment is on the opposite side of the finger with maximum extension (see arrow). Example: if the notch at 9:00 o'clock, the fingers will have their maximum length at 3:00 o'clock.



XG334295 —UN—03MAR18



ZX261296 —UN—22OCT15

1— Finger in 3:00 O'clock Position
2— Finger in 2:00 O'clock Position
3— Finger in 4:00 O'clock Position
A—Flange Nuts
B—Hexagonal Shaft
C—Timing Block
D—Finger

To adjust auger finger timing, proceed as follows:

1. On right-hand side of the auger, loosen six flange nuts (A).
2. Rotate hexagonal shaft (B) clockwise to reduce finger agressivity or counterclockwise to increase. Use notches on timing block (C) to set finger position.
3. Tighten flange nuts (A) to **130 N·m (90 lb·ft)**.

IMPORTANT: To avoid damaging cutting platform floor or auger fingers, maintain a minimum clearance of 20 mm (0.78 in) between the center of auger fingers (D) and floor.

Make sure to measure clearance in the center of the auger.

4. Check auger finger (D) height. If necessary, adjust auger height or fore/aft position accordingly (see **Adjust Auger Height—Fine Adjustment** or **Adjust Auger Fore/Aft** in this section).

OUCC002,00055BE -19-03NOV17-1/1

Adjust Rear Stripper

CAUTION: Completely raise cutting platform and reel, engage safety stop, shut OFF engine, engage park brake, and remove key.

Avoid serious injury from cutterbar movement when auger turns.

IMPORTANT: Adjust auger height and fore/aft before adjusting rear strippers (see Adjust Auger Height—Fine Adjustment and Adjust Auger Fore/Aft in this Section).

If the gap between stripper and auger flight is excessive, material may be carried around the auger and fed into the feeder house unevenly.

Make sure that the rear stripper extensions (E) are aligned with the opening in the feeder house housing (see **Cutting Platform-to-Combine Adaptation** in this section).

To adjust rear stripper, proceed as follows:

1. Unlatch locking plate (A).

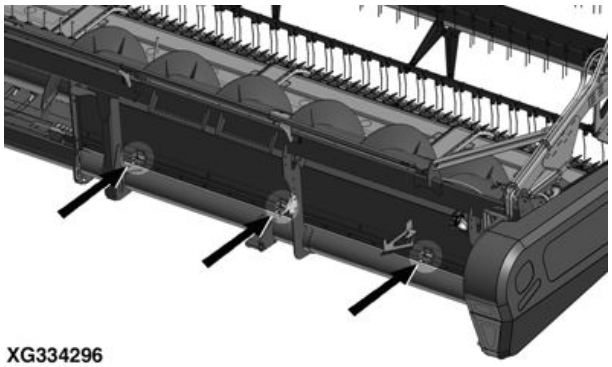
   NOTE: Locking plate (A) prevents the stripper gap from being altered and is kept in place with the latching ball (C).

2. To adjust the stripper gap between tip of auger flight and stripper (D) to **3—5 mm (0.12—0.20 in)**, turn nut (B).

   NOTE: Adjust to 3 mm (0.12 in) when harvesting damp crops, green straw, or tangled crops that tend to wrap around the auger.

3. Turn the auger by hand to check the gap.
4. Adjust rear stripper extensions (E) accordingly.

A—Locking Plate
B—Adjusting Nut
C—Latching Ball
D—Rear Stripper
E—Rear Stripper Extension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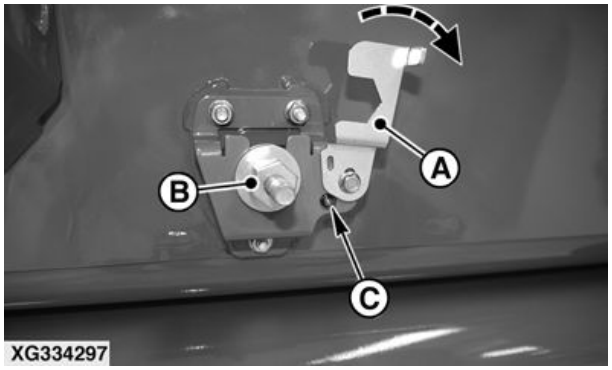
XG334296 —UN—04NOV17



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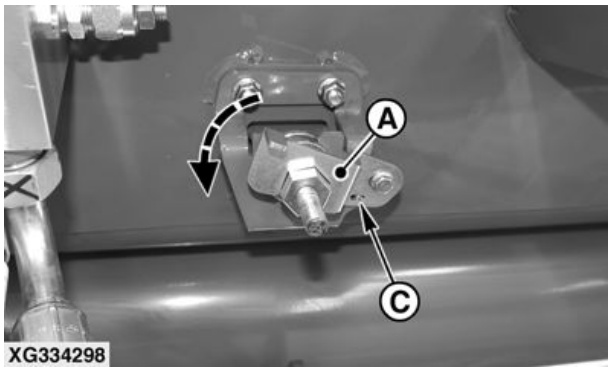
XG334297 —UN—04NOV17



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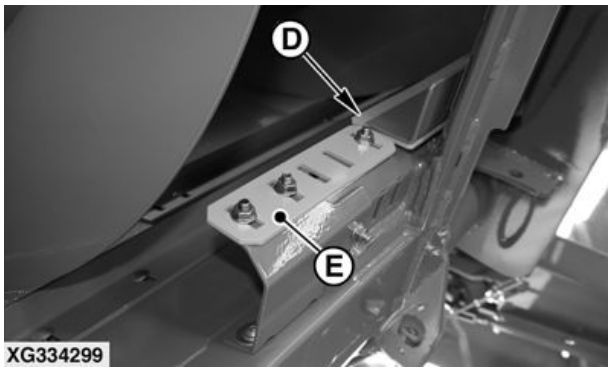
XG334298 —UN—04NOV17



XG334299

XG334299 —UN—04NOV17

OUCC002,00055BF -19-03NOV17-1/1

Adjust Floor Stripper

CAUTION: Avoid serious injury. Completely raise cutting platform and reel, engage feeder house safety stop, shut OFF engine, engage park brake, and remove key.

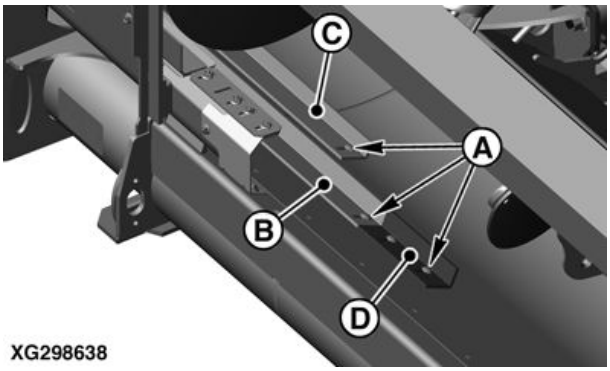
Avoid serious injury from cutterbar movement when auger turns.

IMPORTANT: Adjust auger height and fore/aft before adjusting floor strippers (see Adjust Auger Height—Fine Adjustment and Adjust Auger Fore/Aft in this Section).

If the gap between strippers and auger flight is excessive, material may be carried around the auger and fed into the feeder house unevenly.

To adjust floor stripper, proceed as follows:

1. Loosen hardware (A) on floor stripper (B) and (C).
2. Move the stripper plate until a gap between tip of auger flight and stripper of **3—5 mm (0.12—0.20 in)** is obtained.
3. If installed, adjust floor stripper extension (D) accordingly.
4. When tightening the hardware, turn the auger by hand to check the gap.



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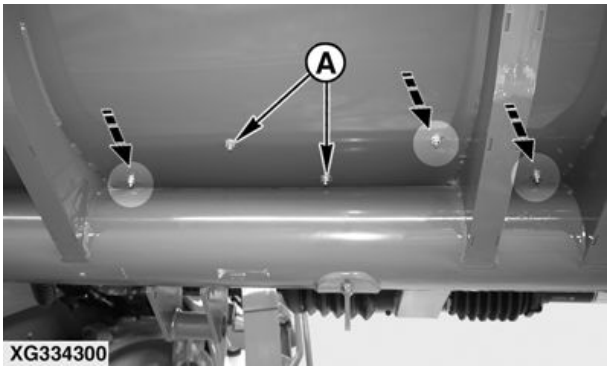


XG334300 —UN—04NOV17

A—Attaching Screws
B—Floor Stripper—Back
C—Floor Stripper—Front
D—Floor Stripper Extension

OUCC002,00055C0 -19-03NOV17-1/1

Required Emission-Related Information

Service Provider

A qualified repair shop or person of the owner's choosing may maintain, replace, or repair emission control devices and systems with original or equivalent replacement parts. However, warranty, recall, and all other services paid for by John Deere must be performed at an authorized John Deere service center.

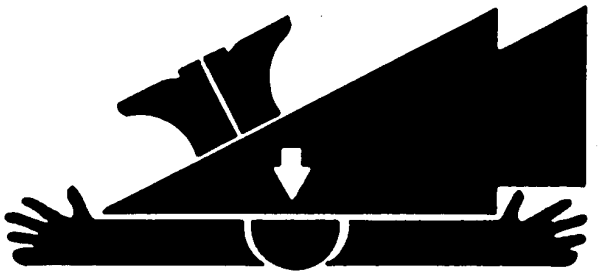
DX,EMISSIONS,REQINFO -19-12JUN15-1/1

Safety Stop for Feeder House Lift Cylinder

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

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

Before working under the cutting platform, raise it fully and put safety stop on the hydraulic cylinder.



TS696 —UN—21SEP89

Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop

ZX237493 —UN—20OCT15

OUCC002,00055B6 -19-01NOV17-1/1

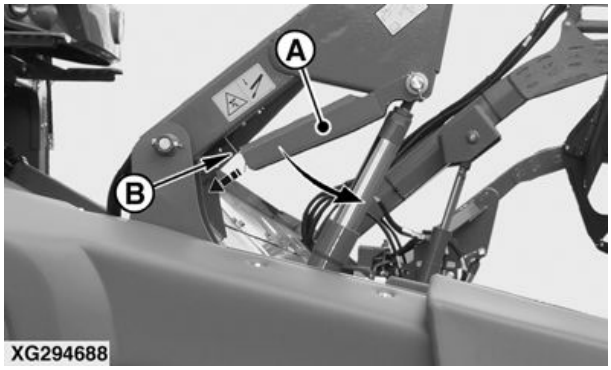
Set Safety Stop for Reel Lift Cylinder

CAUTION: Always set the safety stops (A) and (C) when working on or under the reel.

IMPORTANT: To avoid damage to the hydraulic cylinder, slowly lower the safety stop (A).

Fully raise the reel.

On both sides, unhook safety stop (A) from spring retainer (B) and lower completely. Make sure that safety stop (A) is engaged around cylinder rod, then lower the reel.



XG294688 —UN—18OCT16

A—Safety Stop **B—Spring**

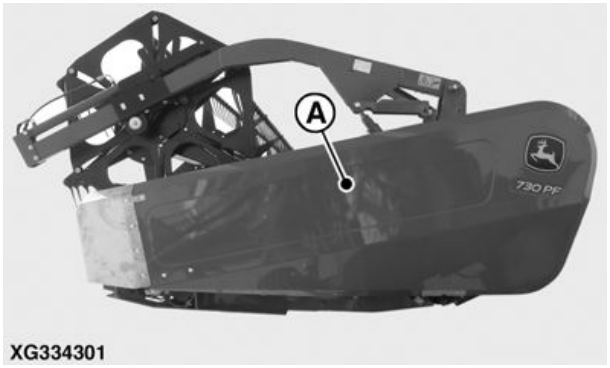
OUCC002,00055DE -19-23MAR20-1/1

Side Shields

- To open side shield (A), release latch (B), raise the side shield by hand and open it.
- To close side shield (A), raise the side shield by hand and engage anchor (C) on hook (D). Secure side shield (A) with latch (B).

IMPORTANT: When closing side shield (A), make sure that anchor (C) is engaged on hook (D).

A—Side Shield
B—Latch
C—Anchor
D—Hook



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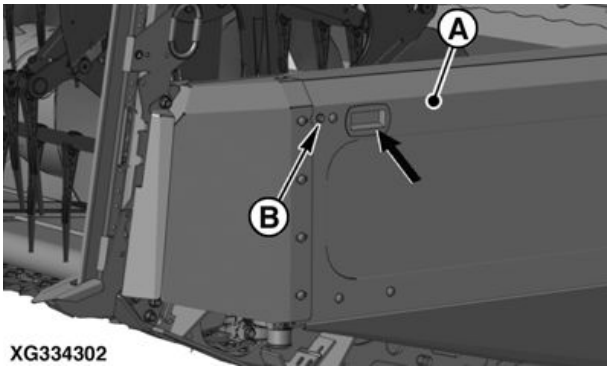
XG334301 —UN—04NOV17



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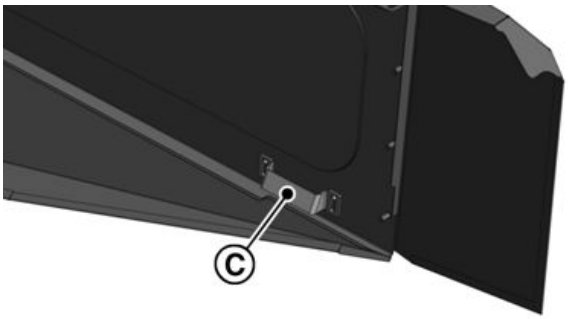
XG334302 —UN—18DEC17



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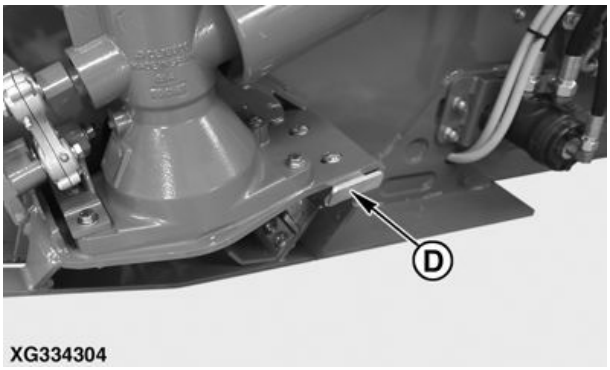
XG334303 —UN—04NOV17



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XG334304 —UN—04NOV17

OUCC002,00055C1 -19-03NOV17-1/1

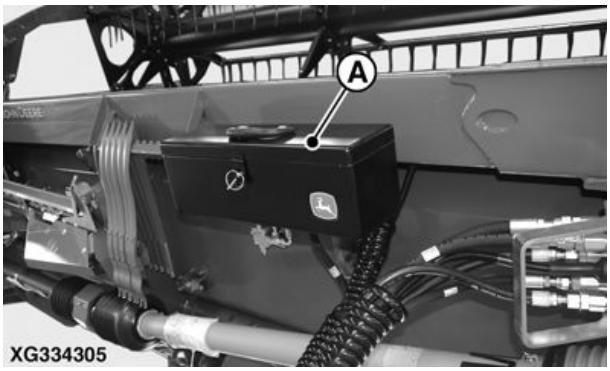
Tool Box

A tool box (A) is installed on the left-hand side of the cutting platform. Following parts are stored in the tool box (A):

- A set of special tools (B) used to remove the belt body rubber band. See **Belt Body** and **Belt Body Rubber Band** sections.
- Up to serial number 021049, a set of four spacers (C) used to replace a finger assembly removed from the middle of the auger. See **Replace Auger Fingers and Retainers (Up to S.N. 021049)** section.

NOTE: A set of six auger fingers is also stored in the tool box (A).

A—Tool Box
B—Special Tool
C—Spacer (up to s.n. 021049 only)



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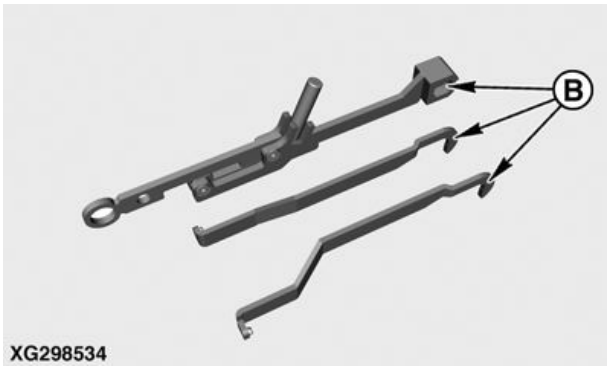

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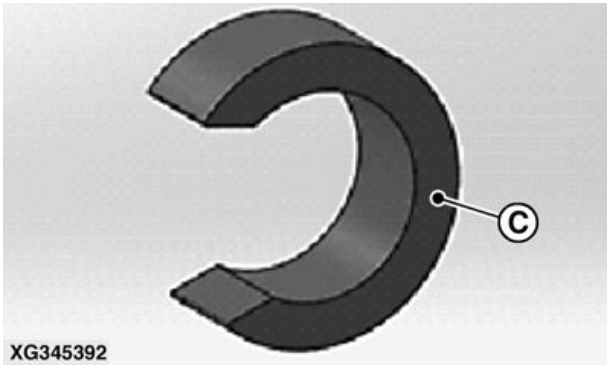


XG345392 —UN—24FEB18

OUCC002,00055E0 -19-21MAR20-1/1

Gear Oil

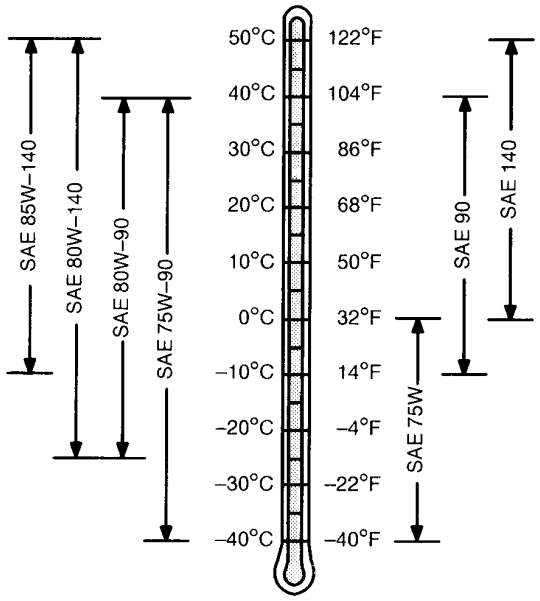
Use oil viscosity based on the expected air temperature range during the period between oil changes.

The following oils are preferred:

- John Deere GL-5 Gear Lubricant
- John Deere EXTREME-GARD™

Other oils may be used if they meet the following:

- API Service Category GL-5



TS1653 —UN—14MAR96

Oil Viscosities for Air Temperature Ranges

EXTREME-GARD is a trademark of Deere & Company

DX,GEOIL -19-14APR11-1/1

Hydraulic Oil

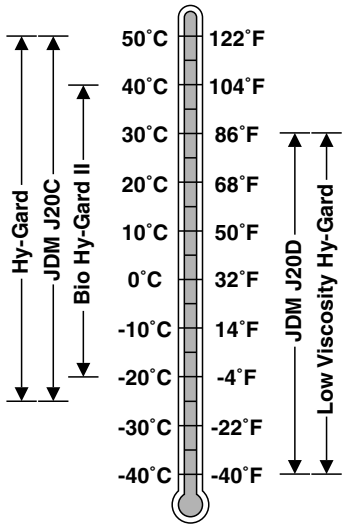
Use oil viscosity based on the expected air temperature range during the period between oil changes.

The following oils are preferred:

- John Deere Hy-Gard™
- John Deere Low Viscosity Hy-Gard™

Other oils may be used if they meet one of the following:

- John Deere Standard JDM J20C
- John Deere Standard JDM J20D



TS1739 —UN—13SEP16

Oils for Air Temperature Ranges

Hy-Gard is a trademark of Deere & Company

OUCC002,0004EE5 -19-25OCT16-1/1

Grease

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

The following grease is recommended:

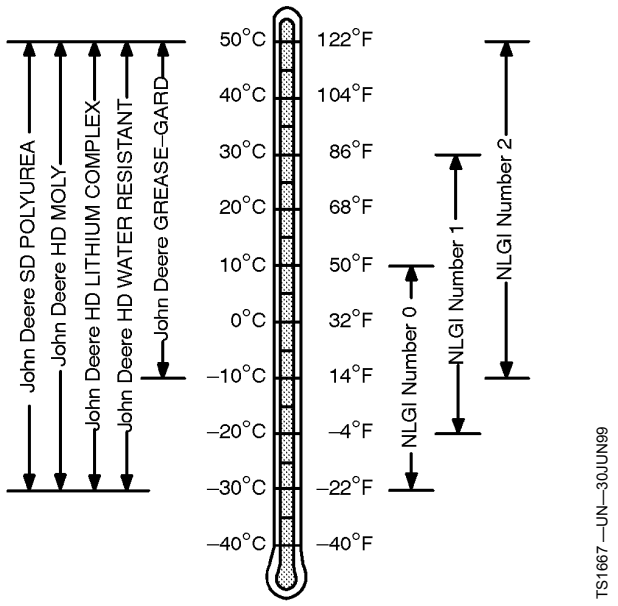
- John Deere SD POLYUREA GREASE (TY6341)

Other greases may be used if they meet the following:

- NLGI Performance Classification GC-LB

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

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



ZX08994,0000068 -19-30SEP05-1/1

Alternative and Synthetic Lubricants

Conditions in certain geographical areas may require lubricant recommendations different from those printed in this manual.

Some John Deere brand coolants and lubricants may not be available in your location.

Consult your John Deere dealer to obtain information and recommendations.

Synthetic lubricants may be used if they meet the performance requirements as shown in this manual.

The temperature limits and service intervals shown in this manual apply to John Deere branded fluids or fluids that have been tested and/or approved for use in John Deere equipment.

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

DX,ALTER -19-13JAN18-1/1

Mixing of Lubricants

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

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

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

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

Lubricant Storage

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

Use clean containers to handle all lubricants.

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

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

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

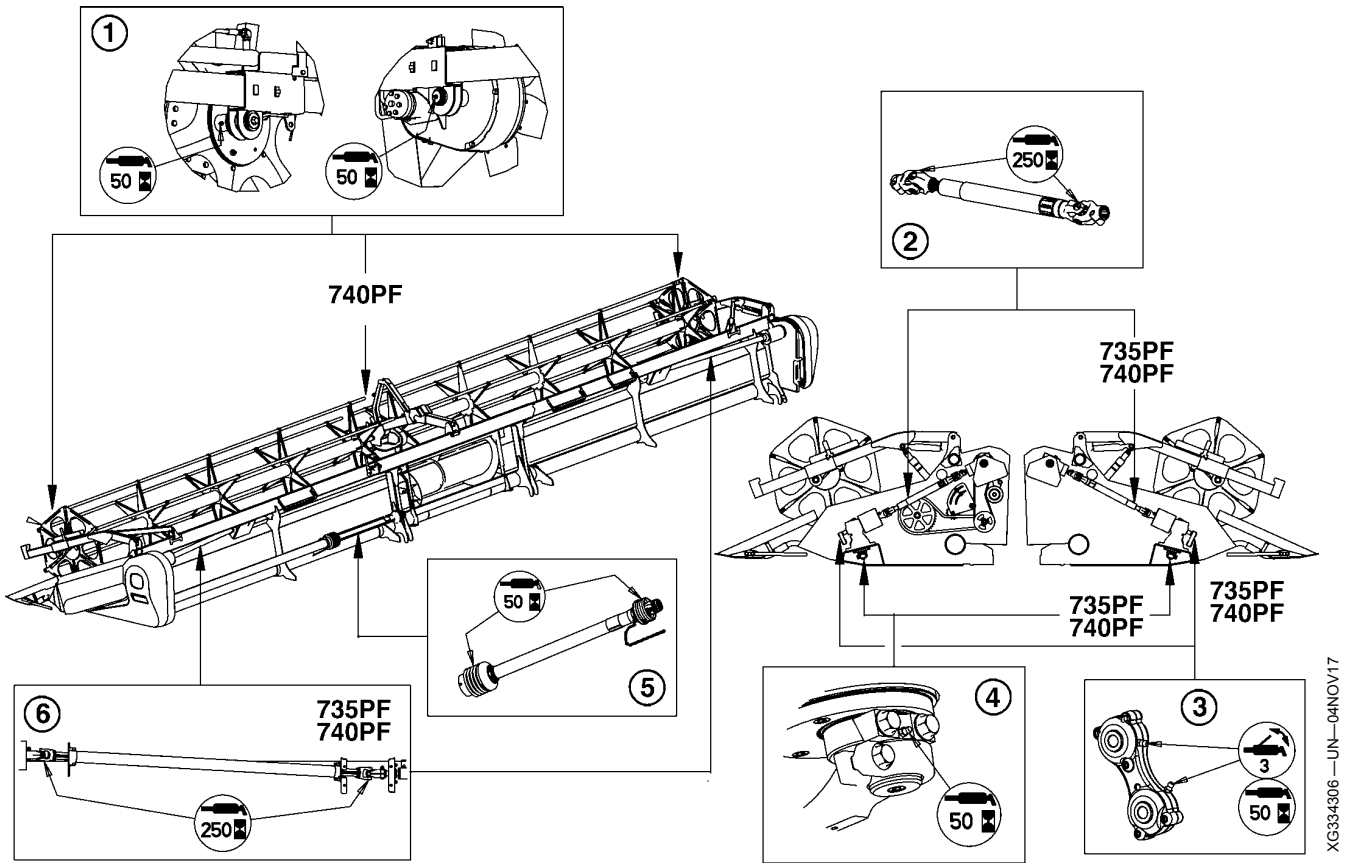
DX,LUBST -19-11APR11-1/1

Maintenance Interval Chart

Interval	Maintenance Action	Operation
Beginning of season	Platform	Clean and lubricate
	Platform	Check bolts and cotter pins
	Belt body	Clean
	Drive belts	Put on and adjust tension
	Drive chain tension	Check
	Platform	Run at half-speed for a few minutes
Daily or every 10 operating hours	Belt body	Clean between belt bodies from the bottom
Weekly or every 50 operating hours	Belt body	Clean between belt bodies from the top
	Reel shaft bearing	Lubricate
	Side knife drive crank	Lubricate (3 strokes)
	Knife drive gear case bearing	Lubricate
	Universal-jointed shaft bearing (between feeder house and cutting platform)	Lubricate
	Drive belts and drive chain tension	Check
Every 100 operating hours or when finished rapeseed	Belt body	Pull out the drawer of the belt body and clean out
Yearly or every 250 operating hours	Universal-jointed shaft for the knife drive gear case	Lubricate
	Connector shaft from the left to the right-hand side	Lubricate
	Header height control sensors	Clean
Every 2 years	Hydraulic oil filter	Replace
As required or after the harvesting season	Belt body	Remove belts of the belt body an clean it out
End of season	Platform	Clean and lubricate
	Platform	Repaint if necessary
	Drive belts	Relieve tension and store

OUCC002,00055C3 -19-03NOV17-1/1

Lubrication Chart



CAUTION: Never service or lubricate the cutting platform while the engine is running.

IMPORTANT: Recommended service intervals apply to average conditions. Service more often if cutting platform is operated under adverse conditions.

1. Lubricate the reel shaft bearing, both sides (**every 50 hours**).

   On 740PF cutting platforms, also lubricate the central bearing.

2. Lubricate the universal-jointed shaft for the knife drive gear case (**every 250 hours**). On 735PF and 740PF cutting platforms, lubricate on both sides.

3. Lubricate the side knife drive crank (**every 50 hours, 3 strokes**). On 735PF and 740PF cutting platforms, lubricate on both sides.

IMPORTANT: Do not apply more than 3 strokes.

4. Lubricate the bearing of the knife drive gear case (**every 50 hours**). On 735PF and 740PF cutting platforms, lubricate on both sides.

5. Lubricate the bearing of the universal-jointed shaft between feeder house and cutting platform (**every 50 hours**).

6. Lubricate the connector shaft from the left to the right-hand side (735PF and 740PF cutting platforms only, **every 250 hours**).

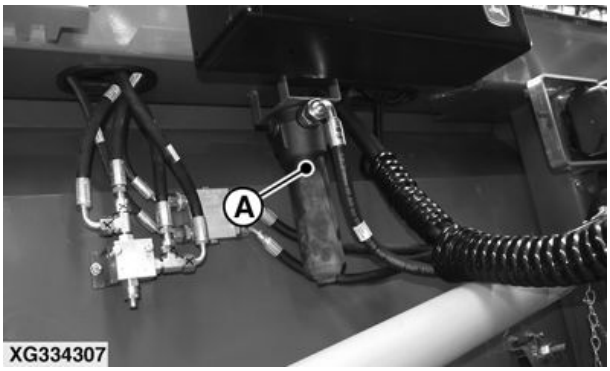
OUCC002,00055C4 -19-03NOV17-1/1

Hydraulic Oil Filter—Every 400 Hours or Every Two Years

Remove oil filter case (A) and replace oil filter element (B).

Coat seals (C) on new filter (B) with oil. Tighten the oil filter case (A) by hand, then tighten by another half-turn.

A—Case
B—Filter Element
C—Seal



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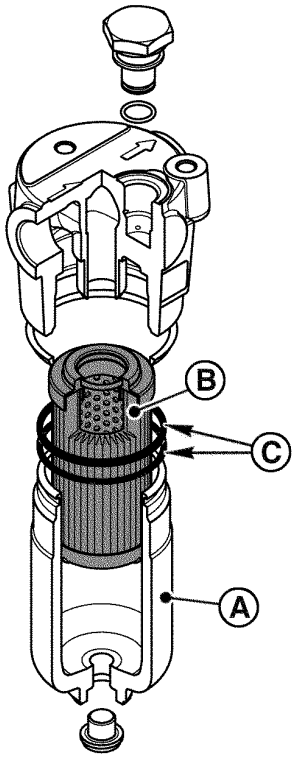

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OUCC002,00055C5 -19-03NOV17-1/1

Header Height Control Sensors—Once a Year

CAUTION: Before working under the cutting platform, raise it fully and put safety stop (A) on the hydraulic cylinder.

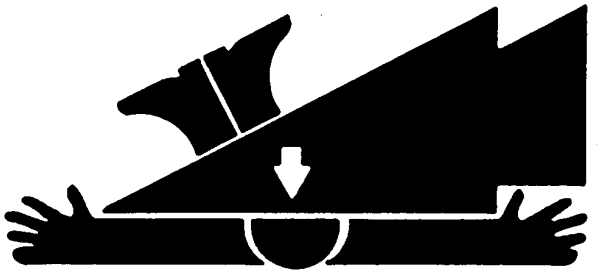
Lower safety stop (A) onto piston rod.

IMPORTANT: Skid plates which sense the clearance from the cutting platform floor to the ground are installed below the cutting platform. In case of crop accumulation at the level of the sensor assembly (B), header height control dysfunctions may occur.

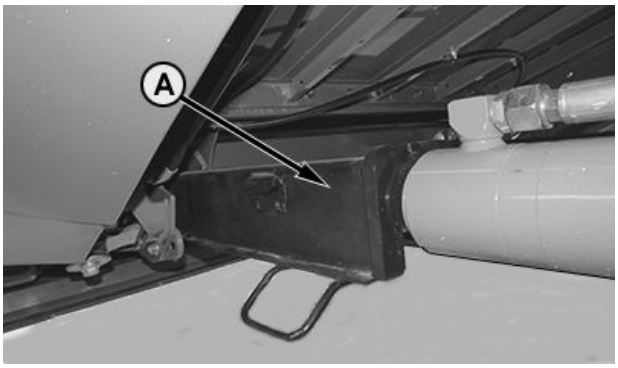
Fully raise the cutting platform to access the sensor assembly (B).

Once a year, thoroughly clean and remove all crop accumulation from all sensor assemblies (B) area.

A—Safety Stop **B—Sensor Assembly**



TS696 —UN—21SEP89



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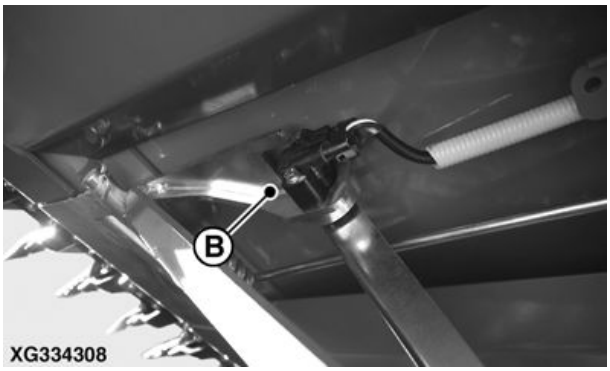

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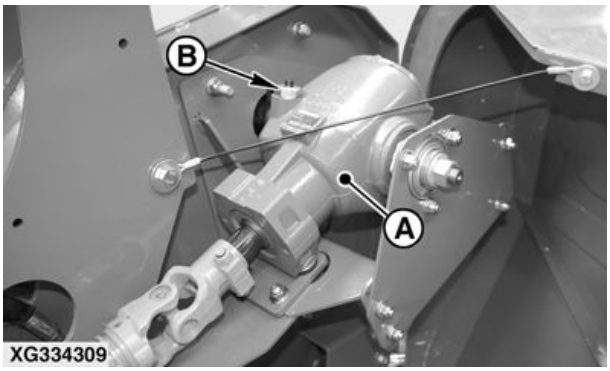
OUCC002,00055C6 -19-04NOV17-1/1

Main Drive Gear Case

Main drive gear case (A) is designed for life time and no regular service is required. To check gear case oil level, make sure that dipstick (B) is vertical to ground, then check oil level with dipstick (B).

NOTE: Gear case (A) contains 0.7 L (0.185 gal) of SAE 80W 90 oil.

A—Main Drive Gear Case **B—Dipstick**



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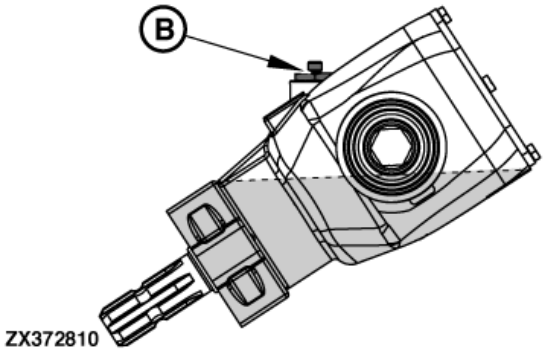

ZX372810 —UN—15APR19

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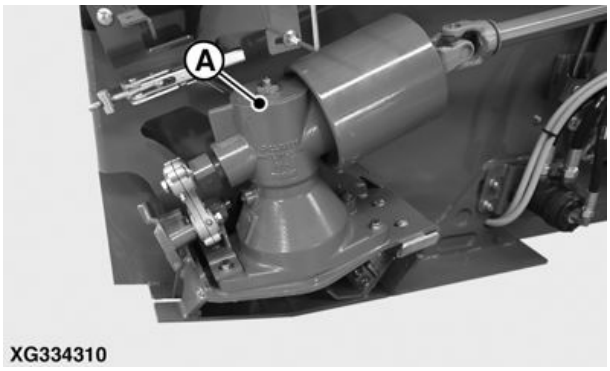
Knife Drive Gear Case

Knife drive gear case (A) is designed for life time and no regular service is required.

NOTE: Gear case (A) contains 0.6 kg (21.16 oz) of John Deere SD POLYUREA grease.

A—Knife Drive Gear Case



XG334310 —UN—06NOV17

OUCC002,00055C8 -19-04NOV17-1/1

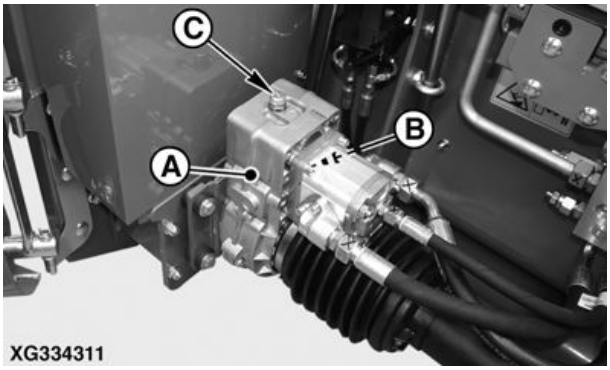
Reduction Gear Case

Reduction gear case (A) is designed for life time and no regular service is required.

To check gear case oil level, place gear case (A) in horizontal position then check oil level at level plug (B).

NOTE: Gear case (A) contains 0.5 L (16.9 oz) of SAE 80W 90 oil.

A—Reduction Gear Case **C—Breather**
B—Level Plug



XG334311 —UN—06NOV17

OUCC002,00055C9 -19-04NOV17-1/1

Manual Pump

Manual pump (A) is designed for life time and no regular service is required.

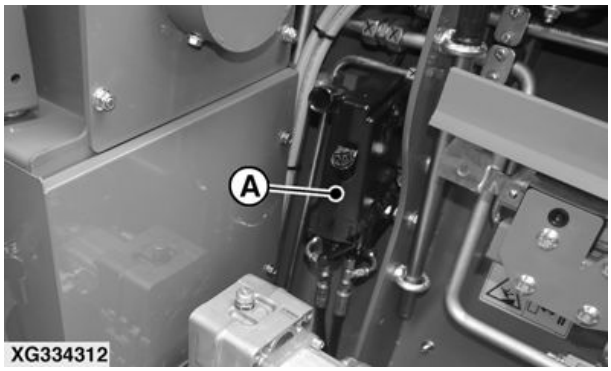
NOTE: Hydraulic circuit of the manual pump (A) contains:

on 735PF and 740PF - 3.5 L (0.92 gal) of hydraulic oil.

on 725PF and 730PF - 2.8 L (0.74 gal) of hydraulic oil.

on 722PF - 2.5 L (0.66 gal) of hydraulic oil.

A—Manual Pump



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OUCC002,00055CA -19-19DEC17-1/1

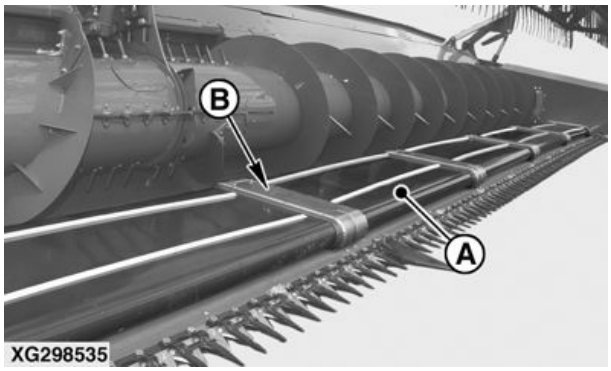
Clean Belt Body

The belt bodies (A) must be cleaned periodically (see **Maintenance Interval Chart**).

The belt bodies (A) and the cutting platform floor can be cleaned:

- From the top, by removing the steel covers (B).
- From both sides, by pushing crop accumulation from the opening (C).

A—Belt Body
B—Steel Cover
C—Opening



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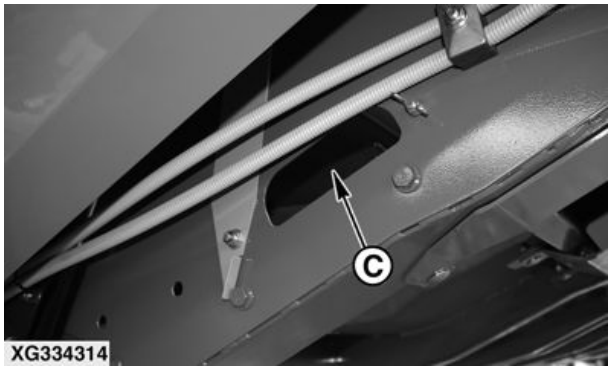

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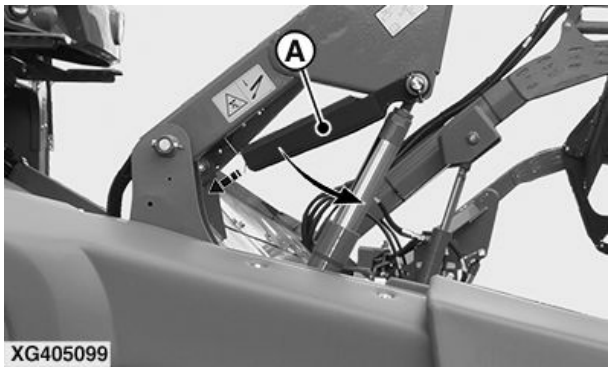

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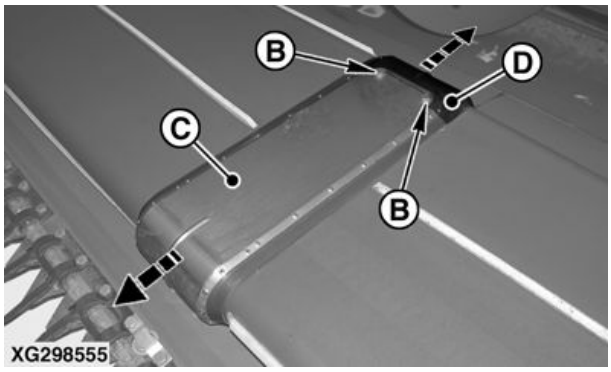


XG298555 —UN—02NOV16

Clean the Belt Body From the Top:

1. Fully extend the reel lift cylinders.

   Set the reel safety stops (A) on both sides of platform. Make sure that safety stop (A) is engaged around cylinder rod, then lower reel.

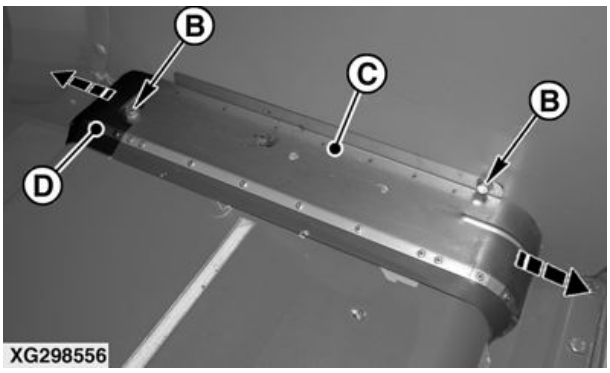
2. Remove the attaching screws (B), then remove the front steel cover (C) and rear steel cover (D).

3. Push down stop (E), then slightly raise the belt body (F). Place the front steel cover (D) or a piece of wood underneath the front roller of the belt body (F), as shown.

4. Drive out the drawer (G) for cleaning, then install it back in place.

IMPORTANT: Retain the drawer (G) with the stop (E).

A—Safety Stop
B—Screw
C—Steel Cover—Front
D—Steel Cover—Rear
E—Stop
F—Belt Body
G—Drawer



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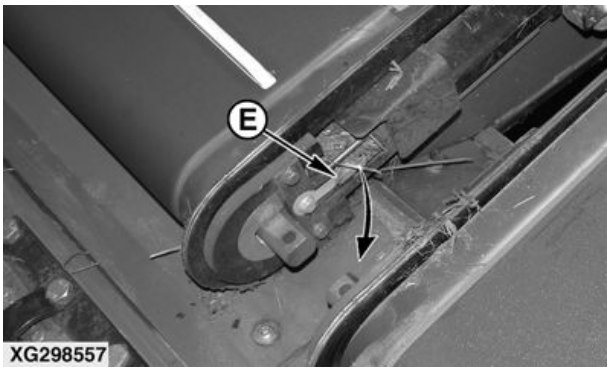

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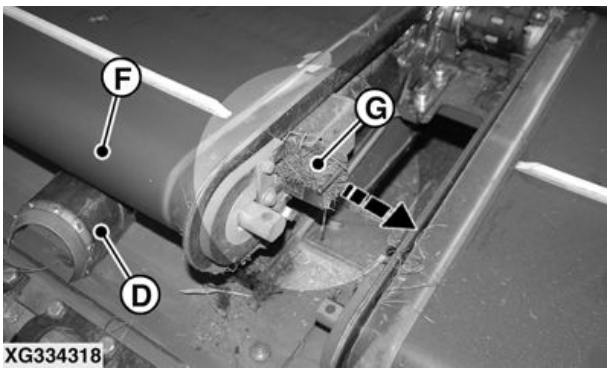

XG334318 —UN—06NOV17

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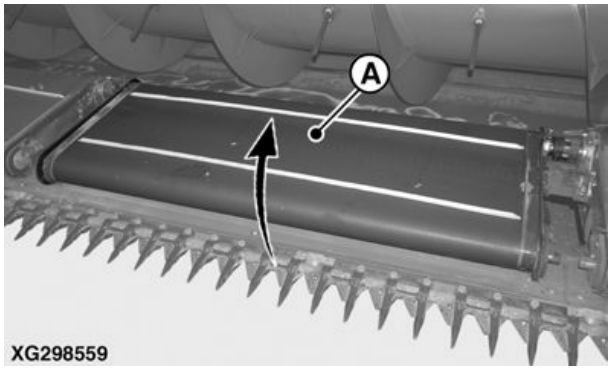
5. Lift up the belt body (A) and lean it backwards on the auger, as shown.
6. Clean underneath the belt body (A) with a broom or by hand.
7. Make sure the sealing (B) is movable both backward, forward, and sideways.

IMPORTANT: Practice a short test run before installing the steel covers (C) and (D) back in place. Make sure, that no belt is running against a sealing (B) and that the sealings (B) have clearance on both sides.

If the sealings (B) are not movable or the short test run fails, remove the relevant belt body and clean completely. See Belt Body and Belt Body Rubber Band sections.

A—Belt Body
B—Sealing
C—Steel Cover—Front
D—Steel Cover—Rear



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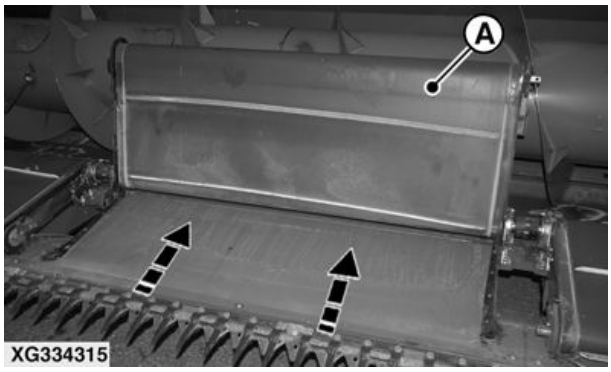

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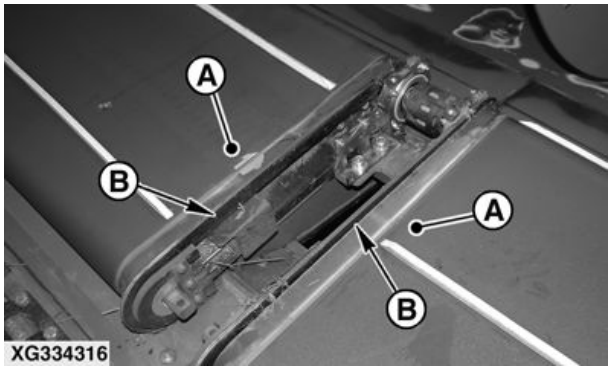

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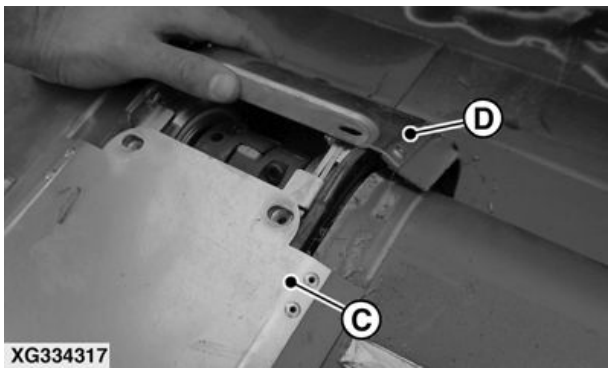

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8. Install rear steel cover (A) first. Insert rear steel cover (A) so that bottom part is above the plates (B), as shown.
9. Align the steel cover (A) so that the sealing lips (C) are in the existing tracks on the belts (see arrows).

IMPORTANT: The sealing lips (C) must be in contact with the back of the belt. If there is a small gap, bend the cover (A) by hand to make sure that this gap is closed.

10. Install the front steel cover (D) so that its sealing lips are aligned the sealing lips of the rear steel cover (A), see arrows. The sealing lips must be in the existing tracks on the belts.

IMPORTANT: The sealing lips must be in contact with the front of the belt. If there is a small gap, bend the cover (D) by hand to make sure that this gap is closed.

IMPORTANT: Pay attention that there is no gap between the covers (A) and (D) when they are mounted and the sealing lips are in contact. Make sure that the sealing lips of the rear cover (A) do not overlap the lips of the front cover (D). The lips must be aligned.

11. Attach covers (A) and (D) with flange screws (E). Tighten flange screws (E) to **20 N·m (14.8 lb·ft)**.

A—Steel Cover—Rear
B—Plate
C—Sealing Lip
D—Steel Cover—Front
E—Flange Screw

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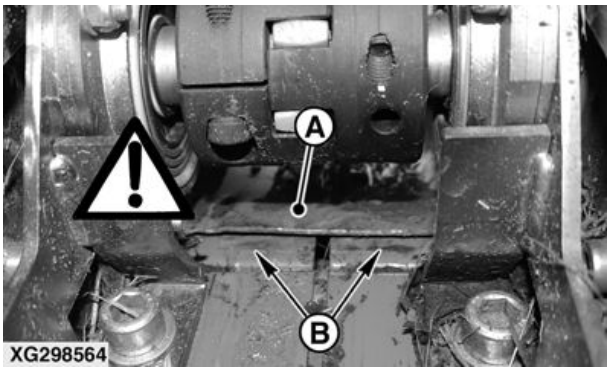

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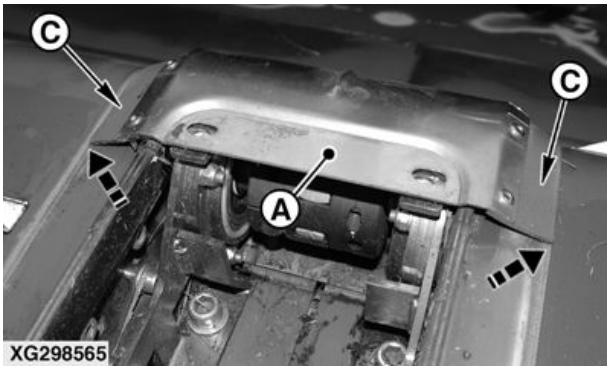

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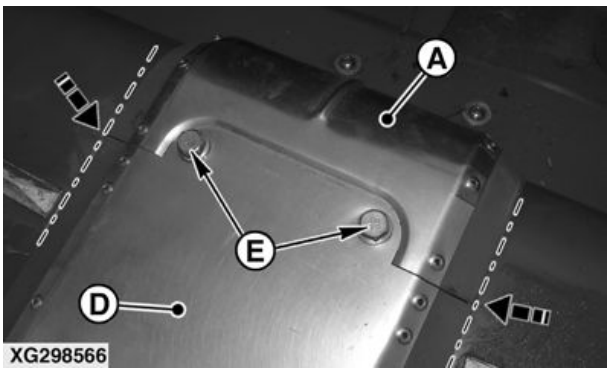

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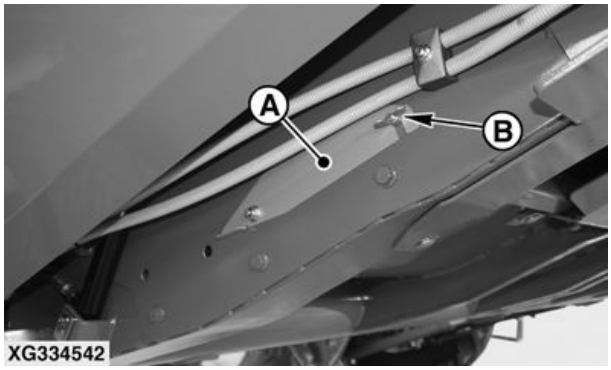
Clean the Belt Body From the Sides:

To open cleaning flap (A), unscrew the wing nut (B).

Push crop accumulation through the opening (C).

A—Cleaning Flap
B—Wing Nut
C—Opening



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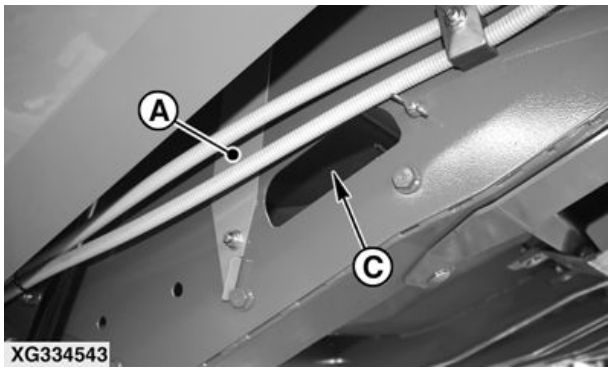

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Belt Body

Remove Belt Body

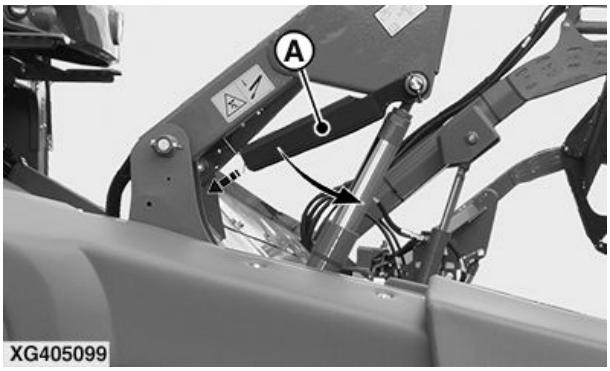
The belt bodies can be individually removed. Proceed as follows:

1. Fully extend the reel lift cylinders.

   Set the reel safety stops (A) on both sides of platform. Make sure that safety stop (A) is engaged around cylinder rod, then lower reel.

2. On both sides of the relevant belt body (B), remove the attaching screws (C), then remove the front and rear steel covers (D), and (E).

A—Safety Stop
B—Belt Body
C—Screw
D—Steel Cover—Front
E—Steel Cover—Rear



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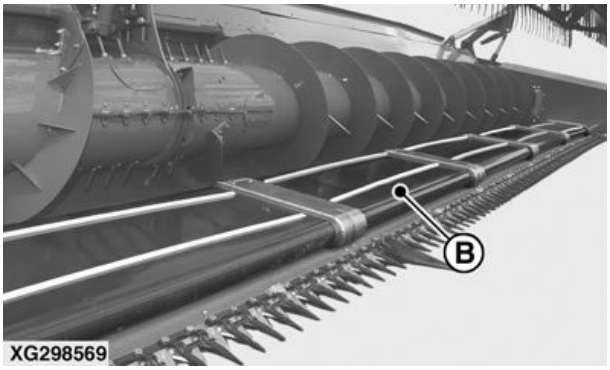

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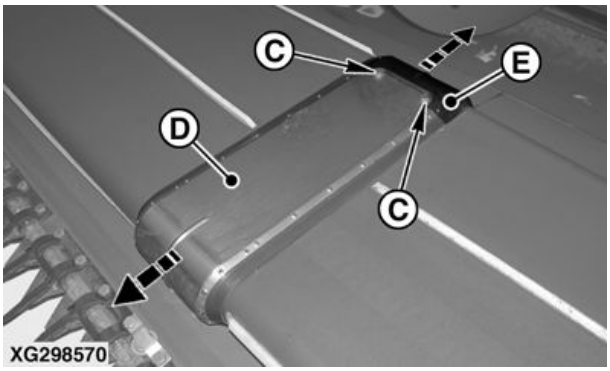

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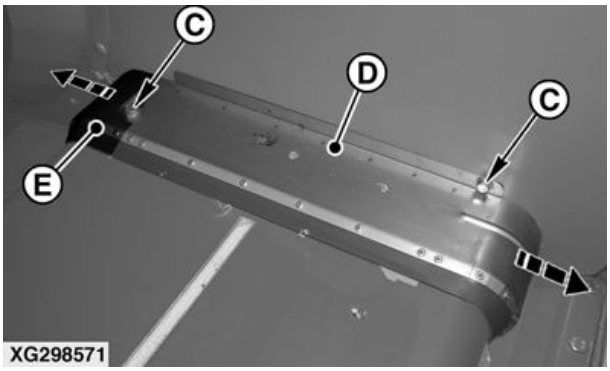

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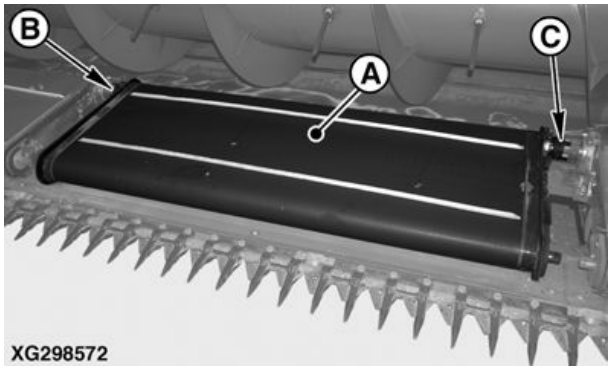
3. On one side of the belt body (A), disconnect the coupler (B) or (C) as follows:

IMPORTANT: If the right-hand side coupler (B) is disconnected, it is not necessary to disconnect the left-hand side coupler (C).

NOTE: Procedure shows the removal of the right-hand side coupler (B).

   a. Drive out the spring pin (D) from coupler (B).

A—Belt Body
B—Coupler—Right-Hand Side
C—Coupler—Left-Hand Side
D—Spring Pin



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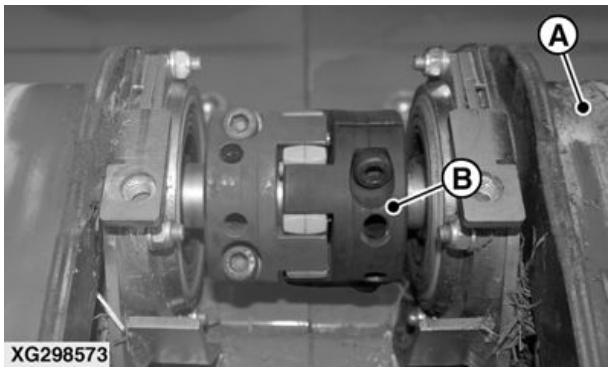

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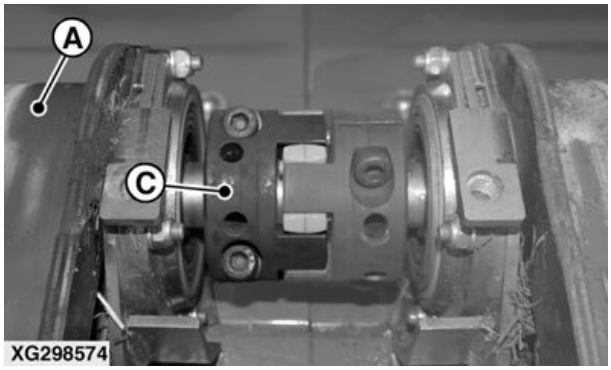

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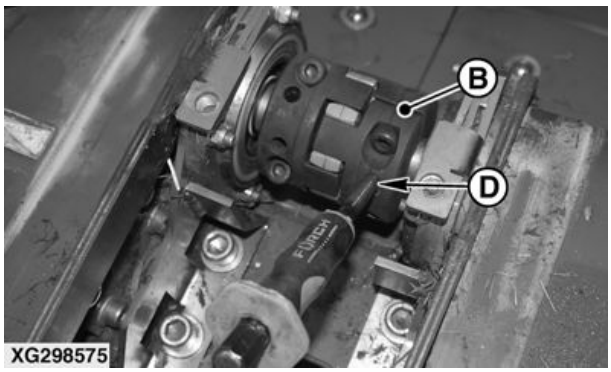

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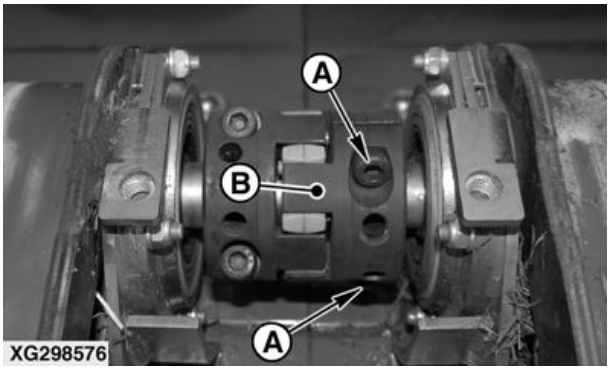
b. Remove both socket head screws (A) from coupler (B).

c. Drive out the spring pin (C) from opposite coupler (D), then loosen both socket head screws (E).

d. Push coupler assembly (F) away from belt body (G), then remove the half coupler (H), as shown.

A—Socket Head Screw
B—Coupler
C—Spring Pin
D—Coupler
E—Socket Head Screw
F—Coupler Assembly
G—Belt Body
H—Half Coupler



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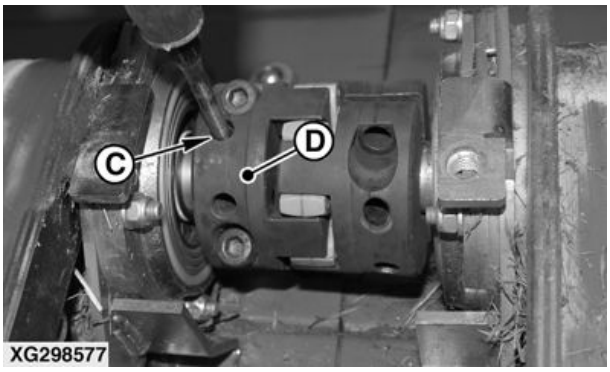

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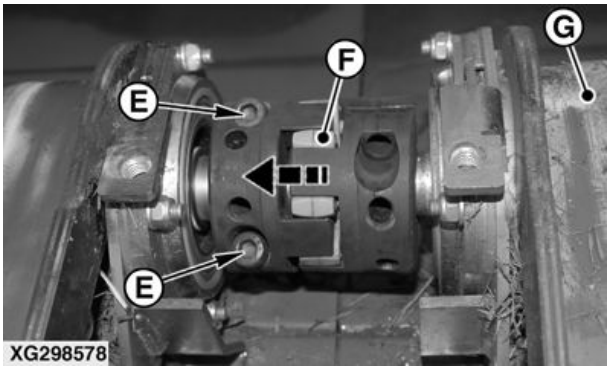

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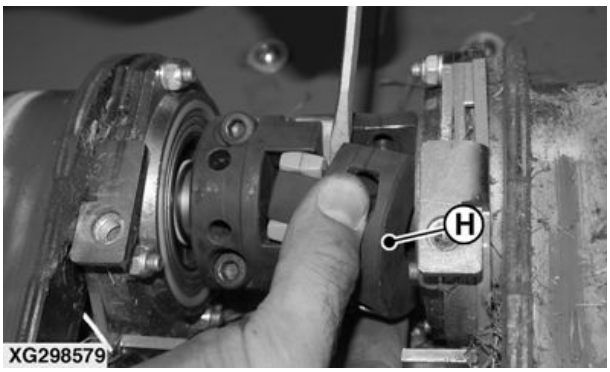

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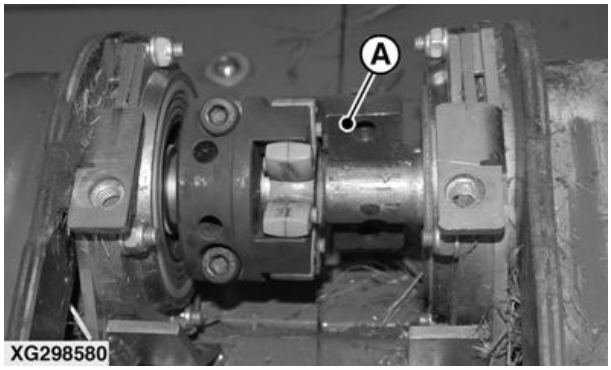
e. Remove the half coupler (A), then remove the socket head attaching screws and washers (B) of the relevant belt body (C).

f. Repeat the procedure on the other side of the belt body (C).

g. Place the belt body (C) onto a suitable support.

4. If necessary, remove the rubber band (D) from the belt body (C). See **Belt Body Rubber Band** section.

A—Half Coupler
B—Socket Head Screw and Washer
C—Belt Body
D—Rubber Band



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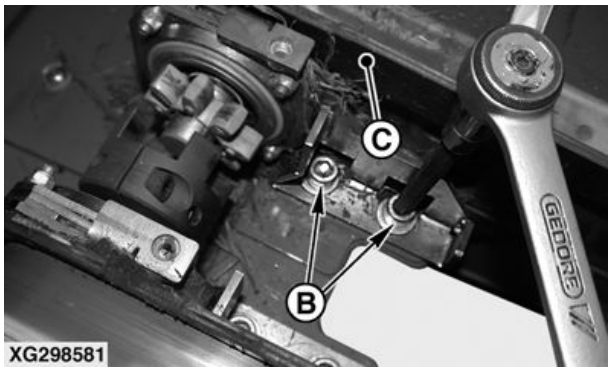

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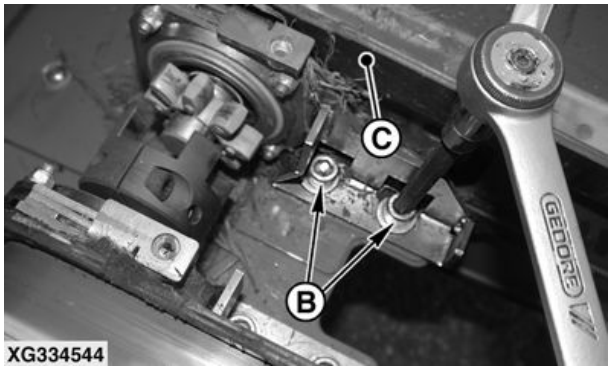

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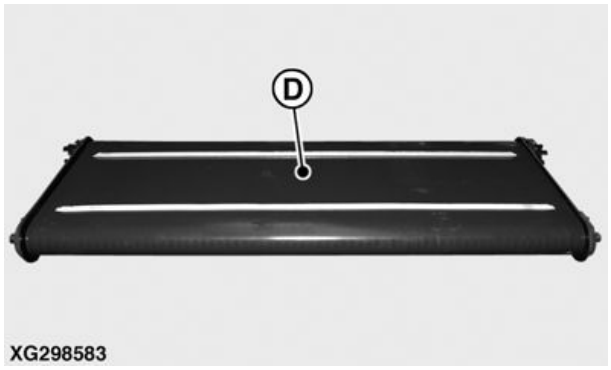

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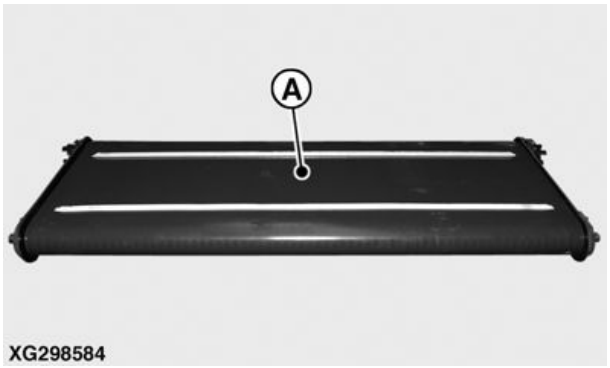
Install Belt Body

Install the belt body (A) back in place, as follows:

NOTE: Procedure shows the installation of the right-hand side coupler. Follow the same procedure for the left-hand side coupler.

1. Install half coupler (B), then second half coupler (C) back in place.
2. Install the socket head attaching screws (D) on half coupler (B) and (C). Do not tighten screws (D) at this stage.
3. Push the coupler assembly (E) until one of the two positioning hole (F) is aligned with the hole on shaft (G), then engage the spring pin (H), as shown.

A—Belt Body
B—Half Coupler
C—Half Coupler
D—Socket Head Screw
E—Coupler Assembly
F—Positioning Hole
G—Shaft
H—Spring Pin



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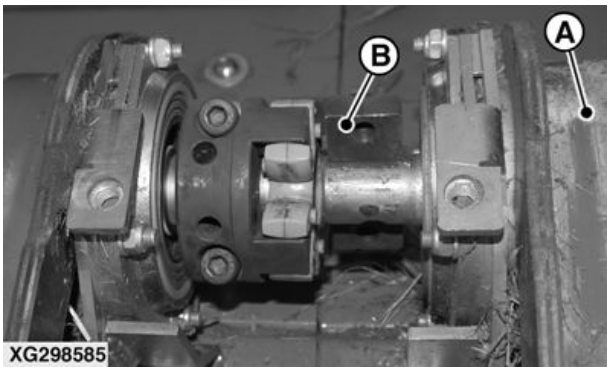

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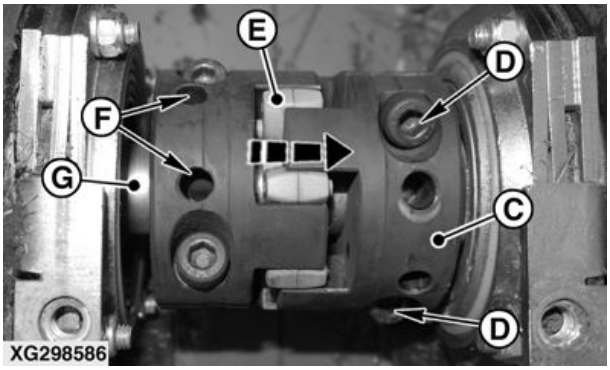

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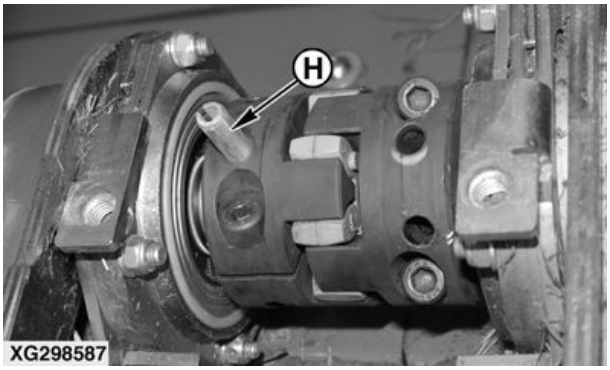

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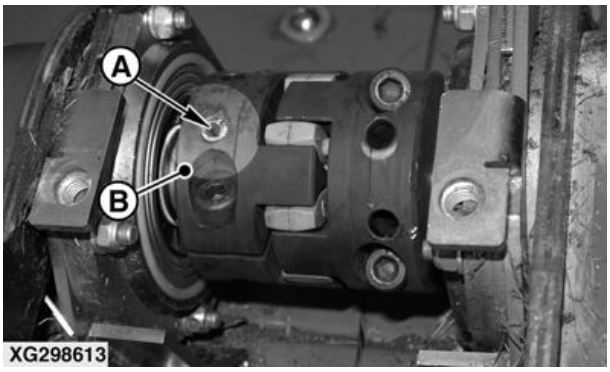

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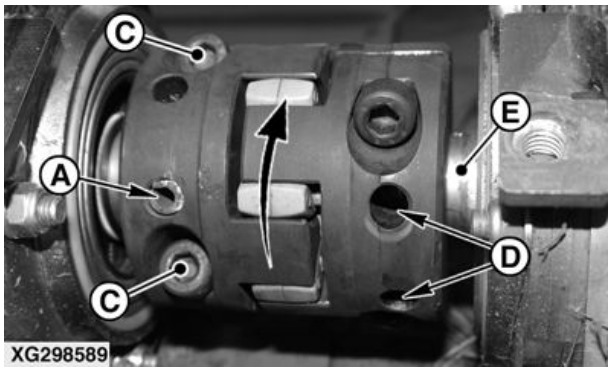

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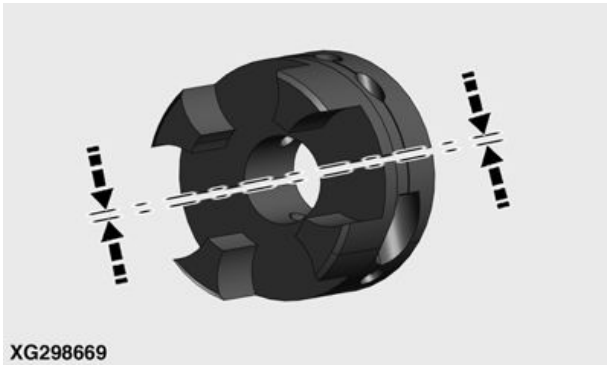
4. Drive in the spring pin (A) so that it is flush with the surface of coupler (B), as shown.
5. Tighten socket head screws (C) to **35 N·m (26 lb·ft)**.

IMPORTANT: Tighten the socket head screws (C) alternately to make sure that the gap between the halves is parallel (see arrows).

6. Rotate the coupler assembly so that one of the two positioning hole (D) is aligned with the hole on shaft (E), then engage the spring pin (F).

NOTE: The half couplers are provided with positioning holes (D) that have a 1.5 mm (0.06 in) offset (X).

A—Spring Pin
B—Coupler
C—Socket Head Screw
D—Positioning Hole
E—Shaft
F—Spring Pin
X—Offset—1.5 mm (0.06 in)



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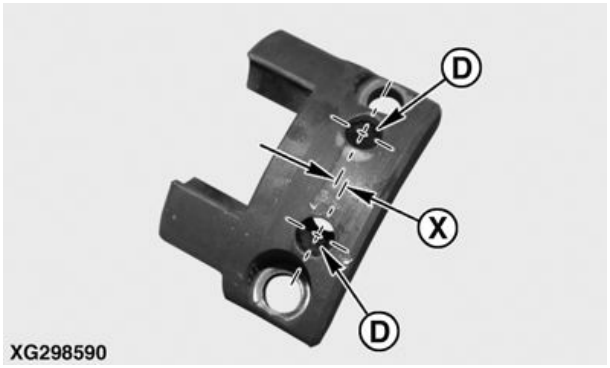

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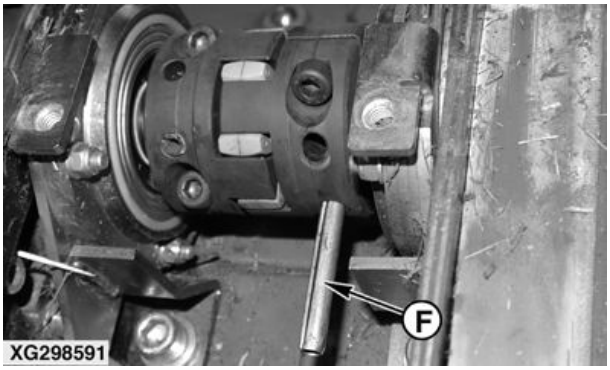

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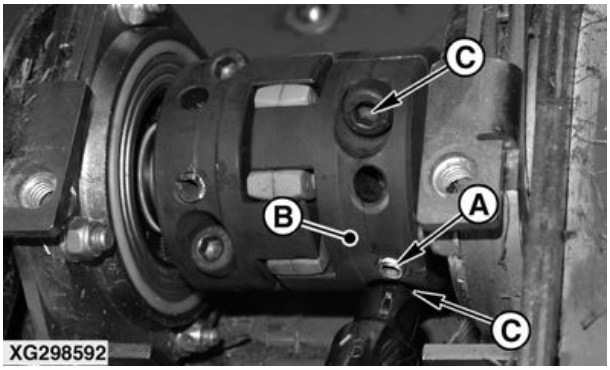
7. Drive in the spring pin (A) so that it is flush with the surface of coupler (B), as shown.
8. Tighten socket head screws (C) to **35 N·m (26 lb·ft)**.

IMPORTANT: Tighten the socket head screws (C) alternately so that the gaps between the coupler halves remain parallel.

9. Check that the distance (X) between tips of couplers (B) and (D) is about **2 mm (0.08 in)**.
10. Make sure that both sealings (E) of the belt body (F) are movable both backward, forward, and sideways.

IMPORTANT: Practice a short test run before installing the steel covers (G) and (H) back in place. Make sure that no belt is running against a sealing (E) and that the sealings (E) have clearance on both sides.

A—Spring Pin
B—Coupler
C—Socket Head Screw
D—Coupler
E—Sealing
F—Belt Body
G—Steel Cover—Front
H—teel Cover—Rear
X—Distance—2 mm (0.08 in)



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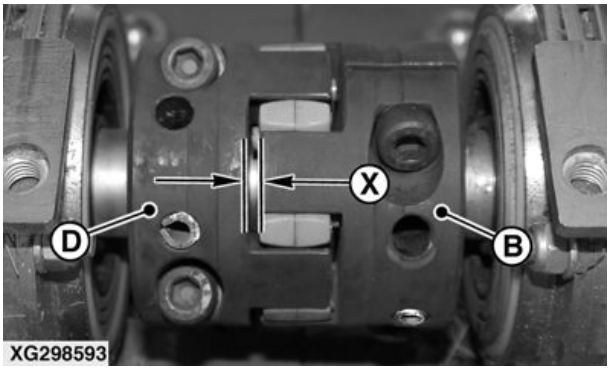

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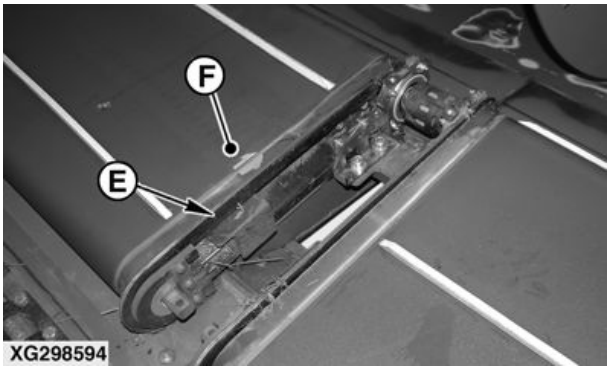

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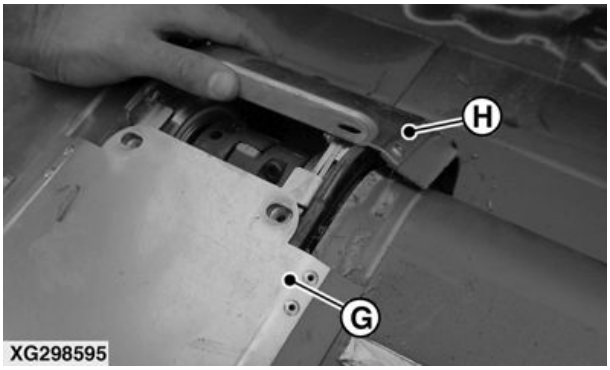

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11. Install the rear steel cover (A) first. Insert rear steel cover (A) so that bottom part is above the plates (B), as shown.

12. Align the steel cover (A) so that the sealing lips (C) are in the existing tracks on the belts (see arrows).

IMPORTANT: The sealing lips (C) must be in contact with the back of the belt. If there is a small gap, bend the cover (A) by hand to make sure that this gap is closed.

13. Install the front steel cover (D) so that its sealing lips are aligned the sealing lips of the rear steel cover (A), see arrows. The sealing lips must be in the existing tracks on the belts.

IMPORTANT: The sealing lips must be in contact with the front of the belt. If there is a small gap, bend the cover (D) by hand to make sure that this gap is closed.

IMPORTANT: Pay attention that there is no gap between the covers (A) and (D) when they are mounted and the sealing lips are in contact. Make sure that the sealing lips of the rear cover (A) do not overlap the lips of the front cover (D). The lips must be aligned.

14. Attach covers (A) and (D) with flange screws (E). Tighten flange screws (E) to **20 N·m (14.8 lb·ft)**.

A—Steel Cover—Rear
B—Plate
C—Sealing Lip
D—Steel Cover—Front
E—Flange Screw

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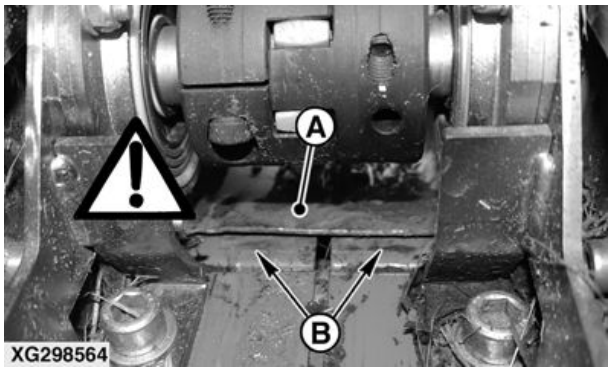

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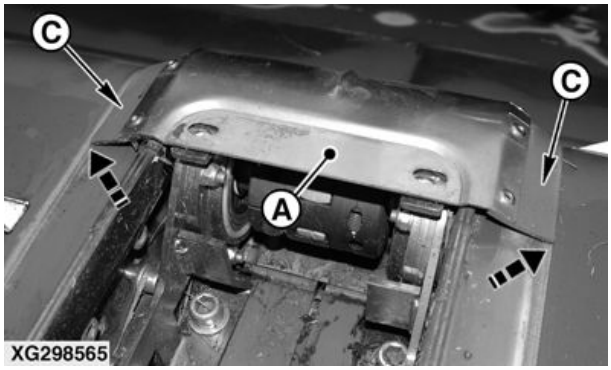

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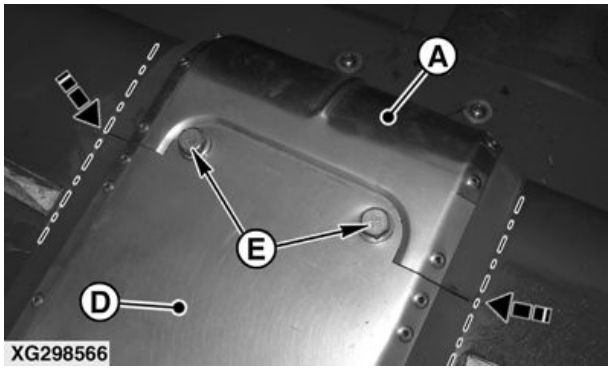

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Belt Body PVC Belt

Remove PVC Belt

To remove the PVC belt (A) from the belt body, proceed as follows:

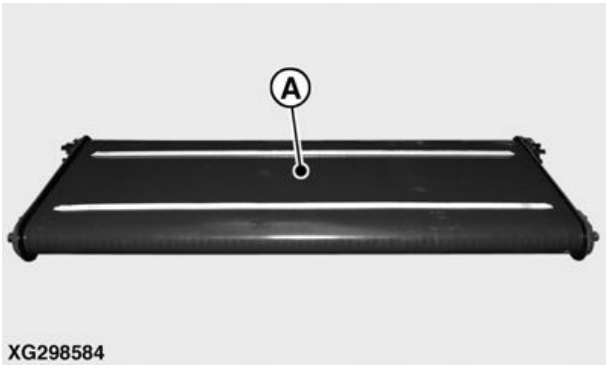
1. Remove the relevant belt body from the cutting platform and place the belt body on suitable support. Refer to **Remove Belt Body** in **Belt Body** section.
2. On both sides, pull out the pivot bearing (B).

NOTE: To remove the pivot bearing (B), it is not necessary to remove the coupler assembly (C).

3. On both sides, remove the attaching screw (D), the stop (E), and the locking support (F).
4. On both sides, pull out the seal plate (G).

IMPORTANT: Note the orientation of the seal plate (G) for further installation purpose.

A—PVC Belt
B—Pivot Bearing
C—Coupler Assembly
D—Screw
E—Stop
F—Locking Support
G—Seal Plate



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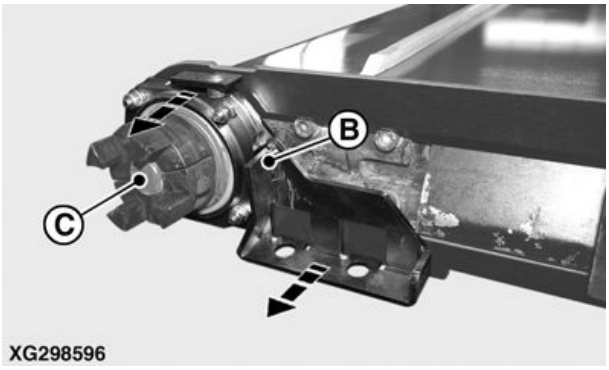

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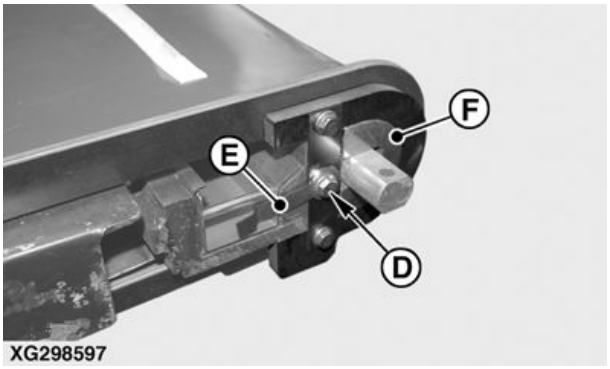

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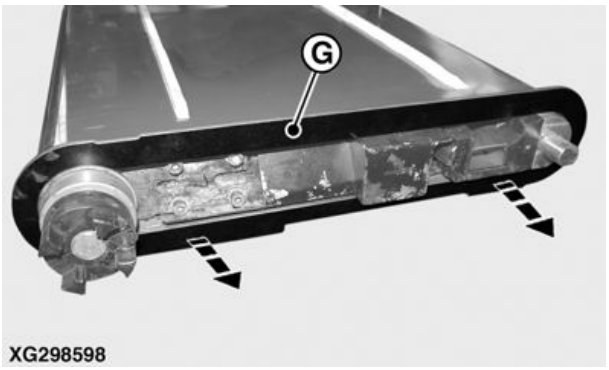

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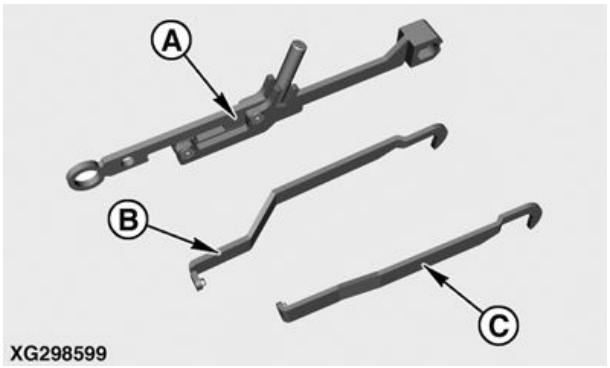
5. To remove the PVC belt, the following tools are required:
   - The tensioning device (A).
   - Two hooks (B) and (C).
   - The lever (D).

NOTE: Tensioning device (A) and hooks (B), and (C) are stored in tool box. Use the hook (B) on the left-hand side of the belt body and the hook (C) on the right-hand side.

6. On the right-hand side of the belt body, install the tensioning device (A) between the rear roller shaft (E) or coupler (F) and the front roller shaft (G), as shown.
7. Engage the lever (D) onto tensioning device (A).

A—Tensioning Device
B—Hook—For Left-hand Side
C—Hook—For Right-hand Side
D—Lever
E—Rear Roller Shaft
F—Rear Roller Coupler
G—Front Roller Shaft



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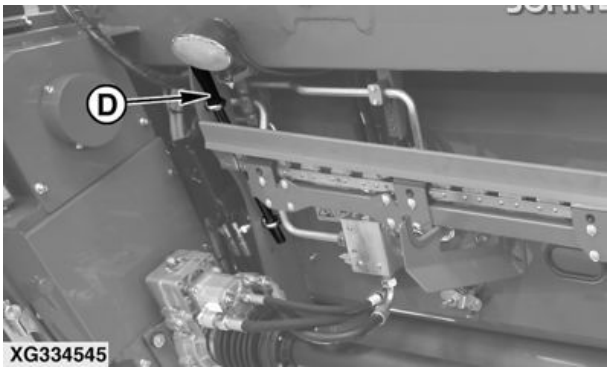

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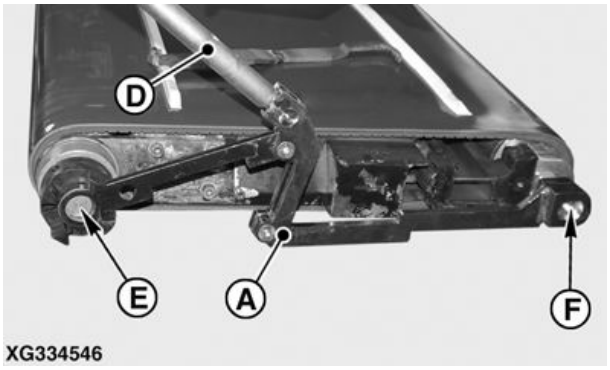

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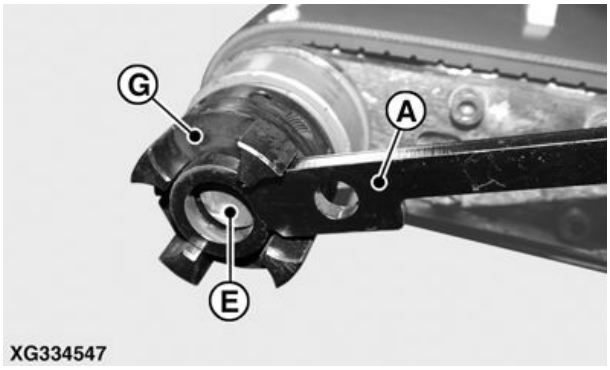

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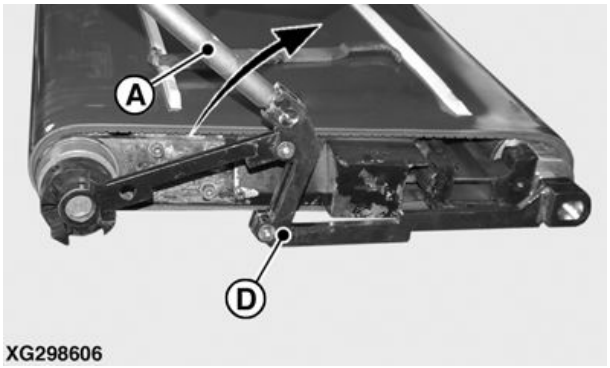
8. Pull on lever (A) until the relevant hook (B) can be installed on front roller shaft (C) and engaged on belt body frame (see arrow), as shown.

IMPORTANT: Make sure that the hook (B) is firmly engaged on belt body frame before removing the tensioning device (D).

9. Remove the tensioning device (D) and install it on other side of the belt body. Repeat the tensioning process on the other side using the relevant hook.

10. When both hooks are installed, remove the PVC belt (E) from belt body (F). The inside the belt body (F) can then be cleaned.

A—Lever
B—Hook
C—Front Roller Shaft
D—Tensioning Device
E—PVC Belt
F—Belt Body



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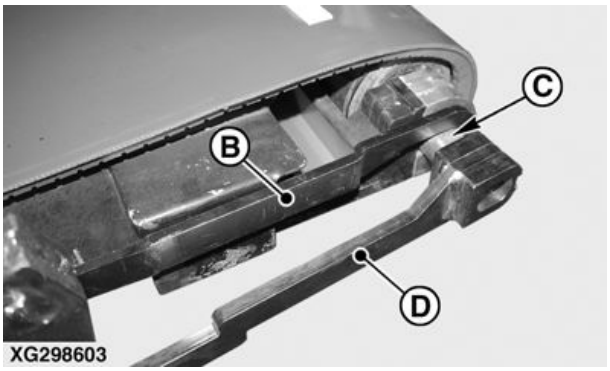

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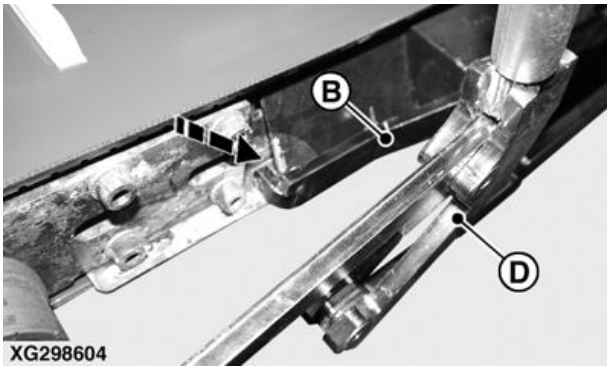

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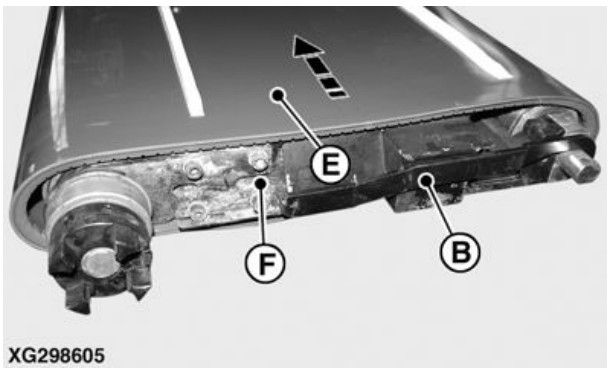

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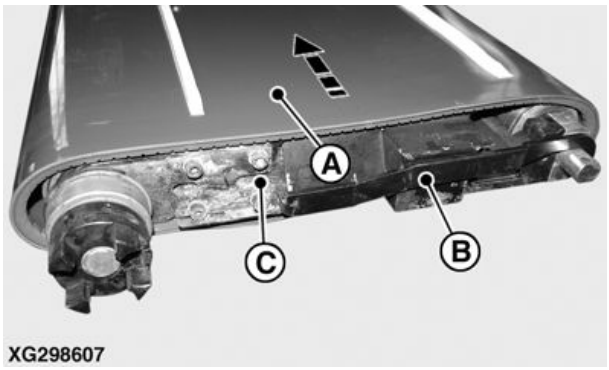

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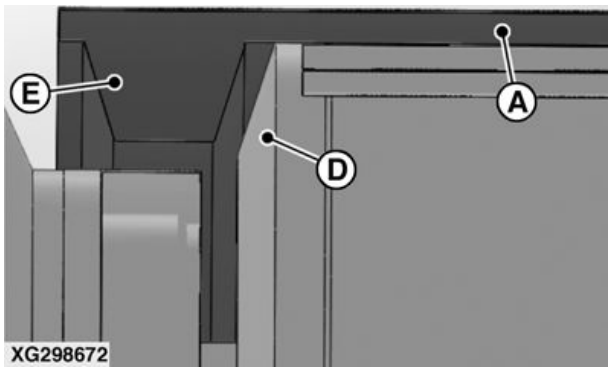

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Install PVC Belt

Install the PVC belt (A) in reverse order of the removal process.

1. With the hooks (B) still on belt body (C), slide the PVC belt (A) over the front and rear rollers (D).

IMPORTANT: If there is an arrow marked on the PVC belt (A), install the PVC belt (A) in direction of the arrow (direction of rotation).

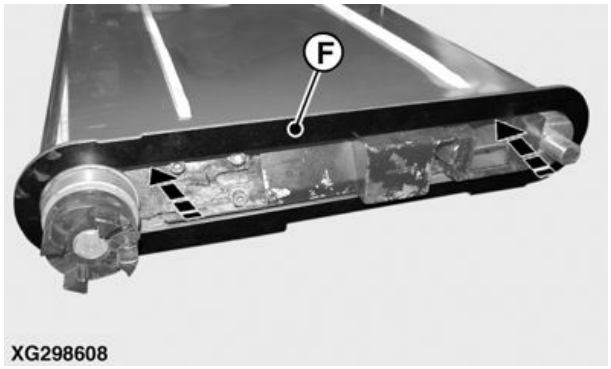
NOTE: If the PVC belt (A) has no direction of rotation, it can be installed in both ways.

2. Center the PVC belt (A) on rollers.

IMPORTANT: Make sure the PVC belt (A) is centered before removing hooks (B). Check position of the inside guiding cleats (E) in regard to the front and rear rollers (D), as shown.

3. Remove the hooks from belt body.
4. Install the seal plates (F), as shown.
5. Install the locking support (G) together with the stop (H) and retain with flange screw (I).
6. Apply slight amount of oil the install the pivot bearings (J) back in place.

A—PVC Belt
B—Hook
C—Belt Body
D—Roller
E—Guiding Cleat
F—Seal Plate
G—Locking Support
H—Stop
I— Flange Screw
J— Pivot Bearing



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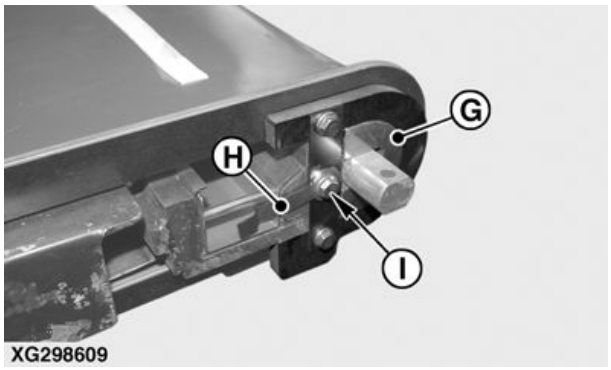

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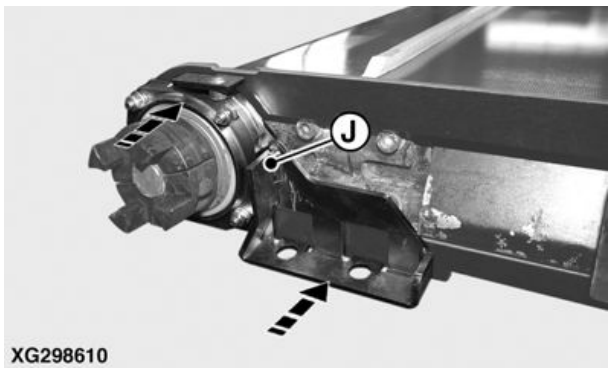

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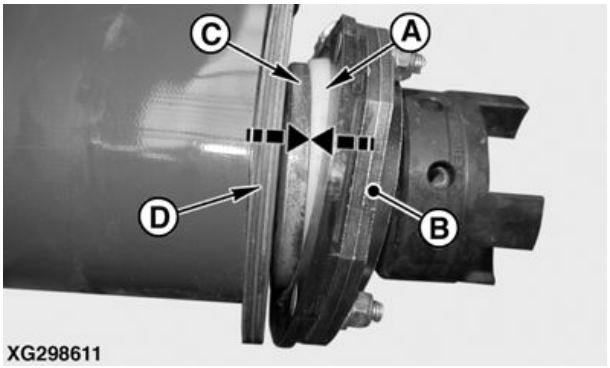
7. Make sure that the ring (A) of the pivot bearing (B) is in contact with the shoulder (C), as shown.

   Make sure that the seal plate (D) is mounted on the shoulder (C).

8. Install the belt body back in place on cutting platform. See **Install Belt Body** in **Belt Body** section.

A—Ring
B—Pivot Bearing
C—Shoulder
D—Seal Plate



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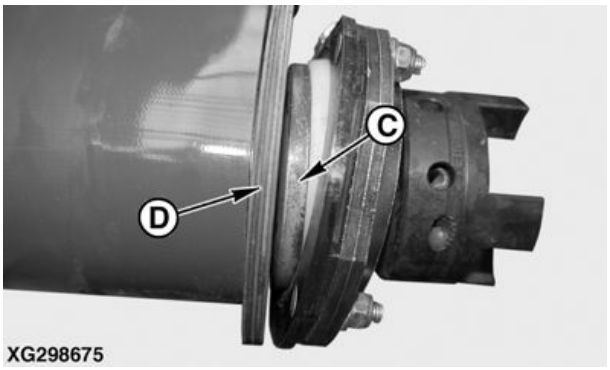

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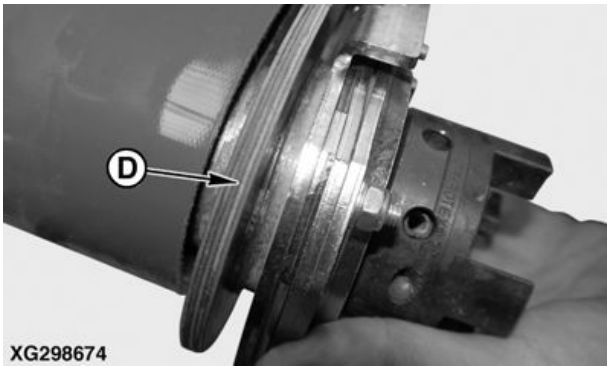

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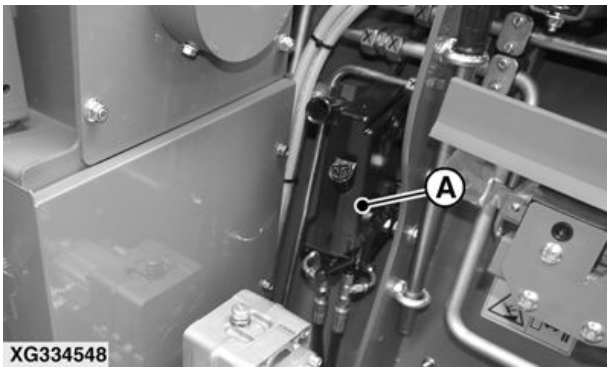
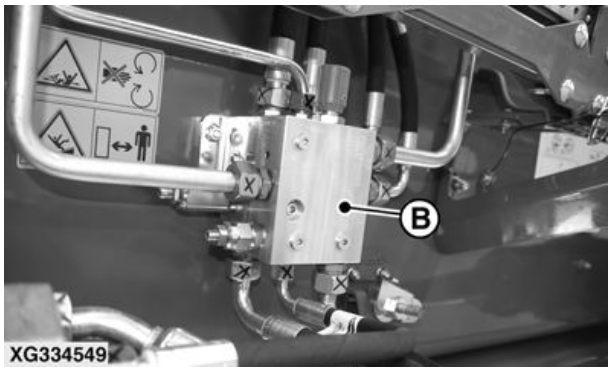
OUCC002,00055D0 -19-06NOV17-5/5

Hydraulic Valve Blocks



XG334548 —UN—06NOV17



XG334549 —UN—06NOV17

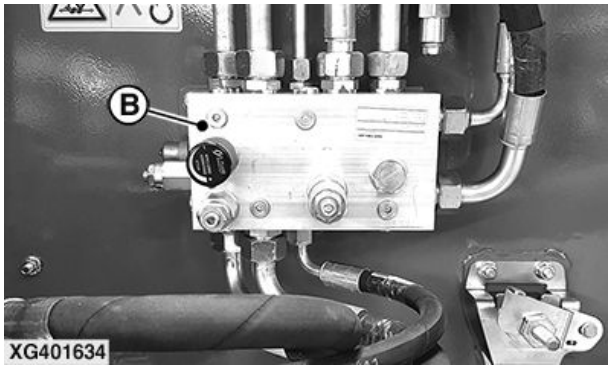
Diverter Valve Block—Up to S.N. 021049

To operate the cutting platform hydraulic system, several hydraulic blocks are installed on the rear side of the cutting platform.

IMPORTANT: Do not operate hydraulic valve block (C or D) from your own. Contact your John Deere dealer.

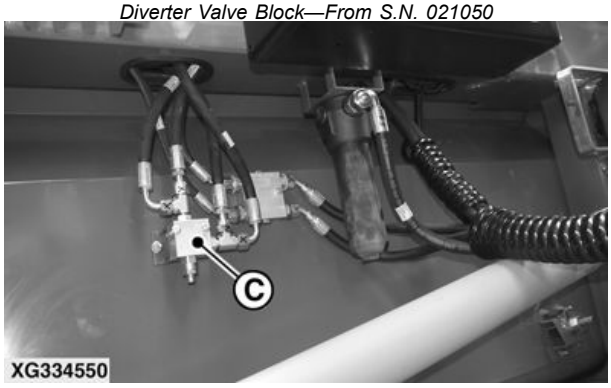
- Pump block (A) allows adjustment of the auger height.
- Diverter valve block (B) controls the belt assembly drive speed functions.
- Bleed valve (C or D) is required only if the reel raise system must be bled. Contact your John Deere dealer for further information.

A—Pump Block
B—Diverter/Flow Control Valve
C—Bleed Valve (722PF—735PF)
D—Bleed Valve (740PF)



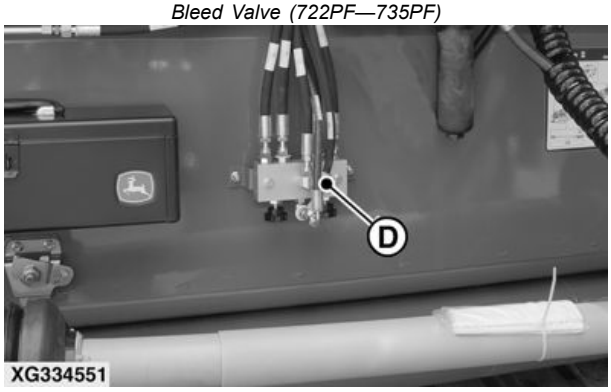
XG401634 —UN—12FEB20

Diverter Valve Block—From S.N. 021050



XG334550 —UN—06NOV17

Bleed Valve (722PF—735PF)



XG334551 —UN—06NOV17

Bleed Valve (740PF)

OUCC002,0006435 -19-03MAR20-1/1

Rephase Reel Fore/Aft Cylinders

If cylinders extend unevenly during operation, rephase them by fully retracting cylinders and holding control switch to remove air from system.

OUCC002,0004796 -19-13APR17-1/1

Rephase Reel Lift Cylinders

IMPORTANT: Always keep reel level with cutterbar.

If cylinders extend unevenly during operation, rephase them by fully retracting cylinders and holding control switch to remove air from the system.

When both cylinders have been retracted, return reel to original position and it will automatically be level. If the reel is not level, air is trapped in system and must be bled out (contact your John Deere dealer).

OUCC002,0004797 -19-14JUN19-1/1

Reel Basic Setting

IMPORTANT: Weekly check reel basic setting and if necessary, take contact with your dealer.

When operating the cutting platform in the field, the reel tines must not contact the cutterbar under any circumstances.

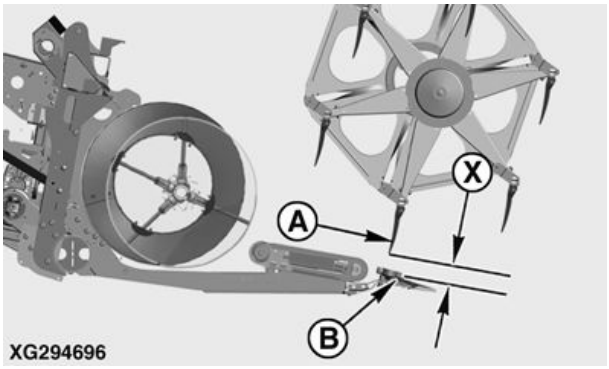
With the reel positioned directly over the knife sections and the reel lift cylinders fully retracted, the basic setting of the reel is correct when there is a minimum distance (X) of **40 mm (1.57 in)** from tip of the reel tines (A) to the knife section (B).

Recommended distance (X):

- On 722PF—730PF: **40 mm (1.57 in)**
- On 735PF: **50 mm (1.97 in)**
- On 740PF: **40 mm (1.57 in)**

IMPORTANT: Place reel tines (A) in most forward position (see Adjust Reel Tines in Field Operation section).

Due to the reel assembly deflection, the distance (X) must be checked at the center of the cutterbar.



XG294696 —UN—09NOV16

A—Reel Tines
B—Knife Section
X—40 mm (1.57 in)

If necessary, perform the basic setting of reel as follows:

1. From inside the cab, move the reel completely to the front, and lower the reel completely.

Continued on next page

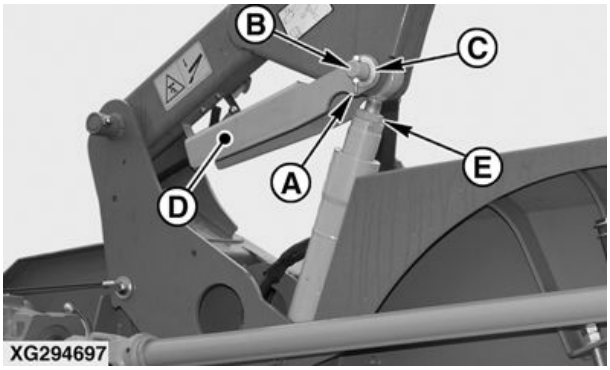
OUCC002,00055D2 -19-13DEC17-1/3

2. **Adjust Reel Height (Both Sides):**
   a. Support the reel with a suitable hoist.
   b. Remove the screw (A), pin (B), and washers (C).
   c. Remove the safety stop (D).
   d. Loosen the lock nut (E).
   e. Hold on to hydraulic cylinder piston rod and adjust the top part of the hydraulic cylinder by rotating it until the specified distance between reel tines and the knife section is reached.

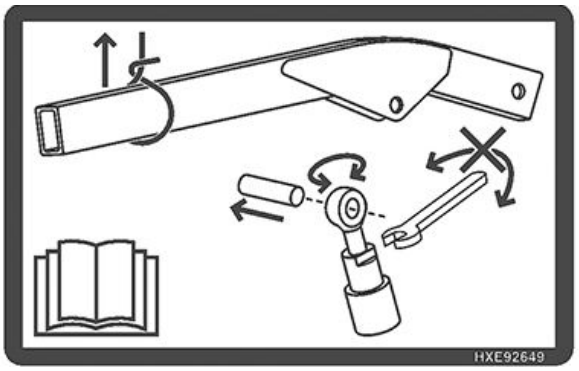
Specification

Tip of reel tines to the knife section—Distance.....40 mm (1.57 in)

A—Screw
B—Pin
C—Washer (2 used)
D—Safety Stop
E—Lock Nut



XG294697 —UN—25OCT16



ZX260327 —UN—14OCT15

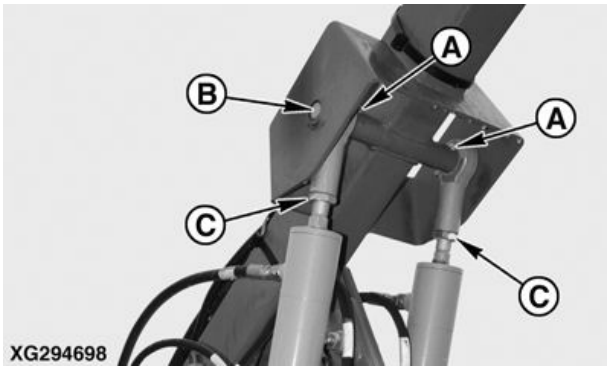
OUCC002,00055D2 -19-13DEC17-2/3

3. **Adjust Reel Height at Center of Cutting Platform (740PF Only):**
   a. Support the reel with a suitable hoist.
   b. Remove the screws (A) and pin (B).
   c. Loosen the lock nut (C) .
   d. Hold on to hydraulic cylinder piston rod and adjust the top part of the hydraulic cylinder by rotating it until the specified distance between reel tines and the knife section is reached.

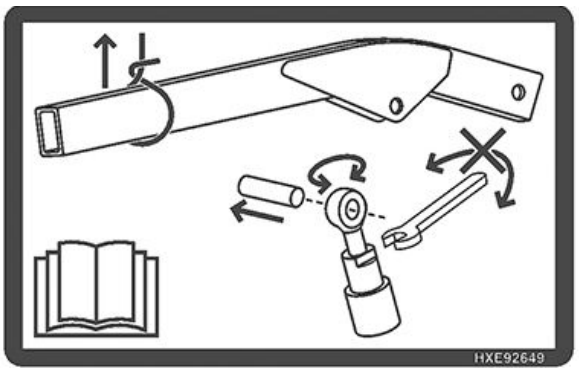
Specification

From the reel tines to the knife section—Distance.....40 mm (1.57 in)

A—Screw
B—Pin
C—Lock Nut



XG294698 —UN—25OCT16



ZX260327 —UN—14OCT15

OUCC002,00055D2 -19-13DEC17-3/3

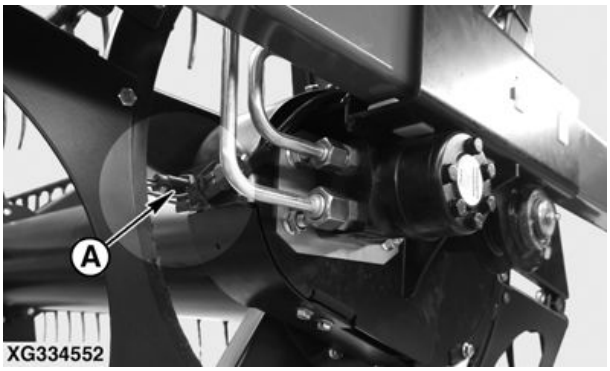
Adjust Reel Speed Sensor

- On 722PF—735PF, the reel speed sensor (A) is on the reel drive system on right-hand side of the platform.
- On 740PF only, the reel speed sensor (A) is on the reel arm on center of the platform.

To adjust reel speed sensor, proceed as follows:

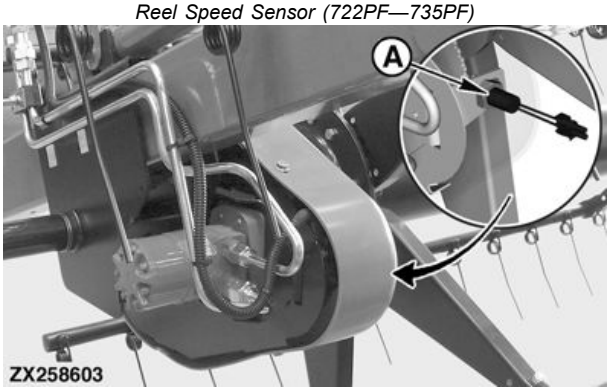
1. Remove the shield.
2. Loosen the lock nuts (C).
3. Rotate the speed sensor (A) until it touches pulse generator (B), then back off 1/2 turn.
4. Rotate the reel by hand to verify there is no contact between sensor and pulse generator. If required, screw the speed sensor out another 1/2 turn.
5. Tighten the lock nuts (C).
6. Reinstall previously removed shield and cap screws.

A—Reel Speed Sensor
B—Pulse Generator
C—Lock Nuts



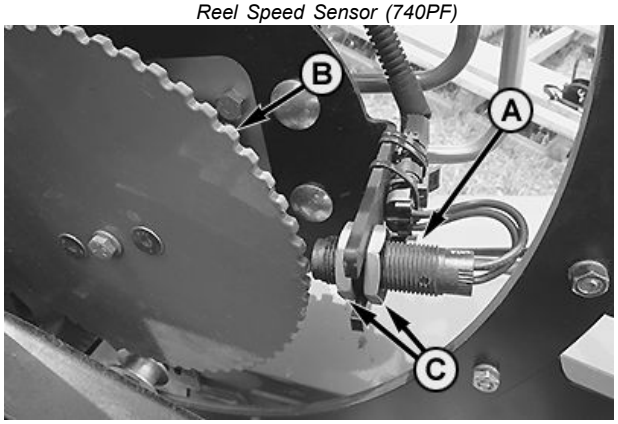
XG334552 —UN—06NOV17

Reel Speed Sensor (722PF—735PF)



ZX258603 —UN—20OCT15

Reel Speed Sensor (740PF)



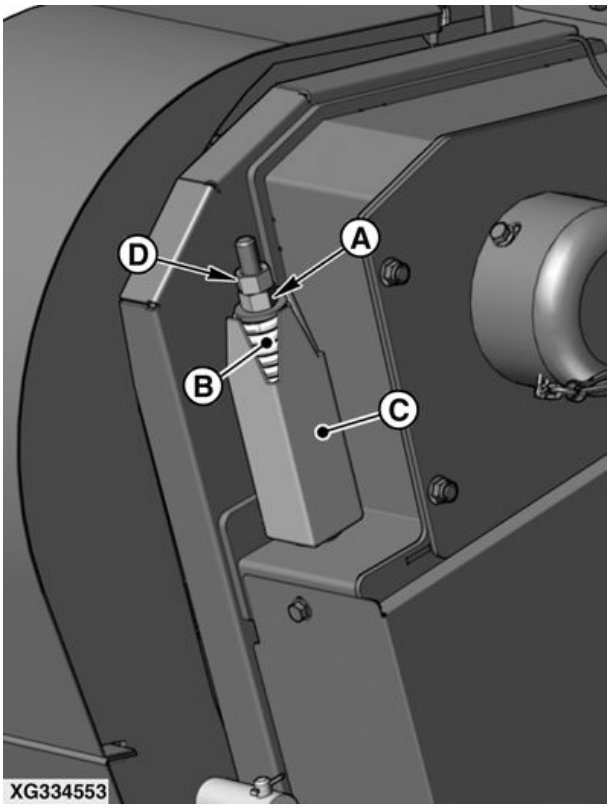
ZX1046208 —UN—23JUN14

OUCC002,00055D3 -19-06NOV17-1/1

Adjust Knife Drive Belts Tension

Adjust tensioning nut (A) in such a way that the length of the spring (B) equals the length of the gauge (C), then tighten lock nut (D).

A—Tensioning Nut
B—Spring
C—Gauge
D—Lock Nut



XG334553 —UN—18DEC17

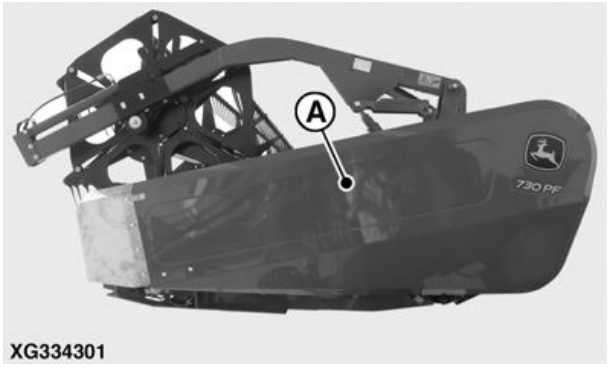
OUCC002,00055D4 -19-06NOV17-1/1

Replace Knife Drive Belts

To replace the knife drive belts, proceed as follows:

1. Lower cutting platform to the ground.
2. Open left-hand side shield (A).

A—Side Shield



XG334301 —UN—04NOV17

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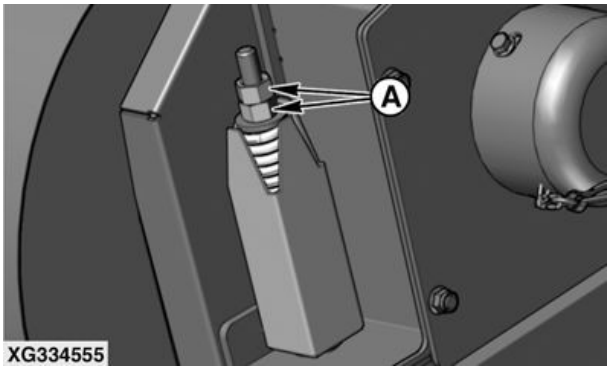
OUCC002,00055D8 -19-15DEC17-1/6

3. To release tension on belts, loosen lock nuts (A) to the end of the thread.

A—Lock Nut



XG334555 —UN—18DEC17

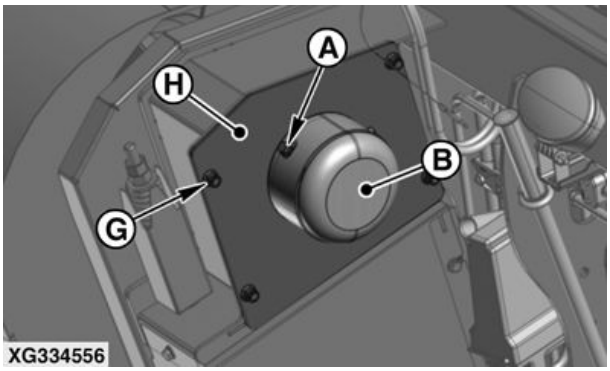
OUCC002,00055D8 -19-15DEC17-2/6

4. **722PF—730PF:** Remove attaching screws (A), then the cover (B).

   735PF and 740PF: Open and slide protection shield assembly (C), then remove retaining screw (D) from connector shaft (E). Disconnect connector shaft (E) from main drive gear case drive shaft (F).

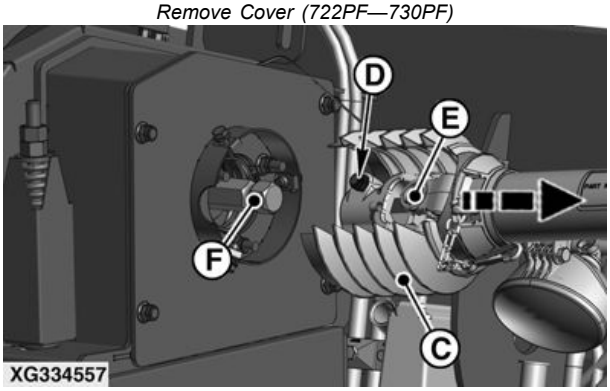
   722PF—740PF: Remove flange nuts (G), then remove the support (H).

A—Screw (3 used)
B—Cover (722PF—730PF)
C—Protection Shield
D—Retaining Screw (735PF and 740PF)
E—Connector Shaft (735PF and 740PF)
F—Drive Shaft—Main Drive Gear Case
G—Flange Nut (4 used)
H—Support (722PF—740PF)



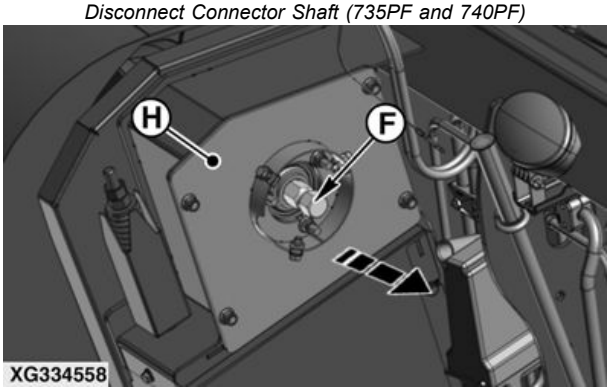
XG334556 —UN—18DEC17

Remove Cover (722PF—730PF)



XG334557 —UN—18DEC17

Disconnect Connector Shaft (735PF and 740PF)



XG334558 —UN—18DEC17

Remove Support— (722PF—730PF) Shown

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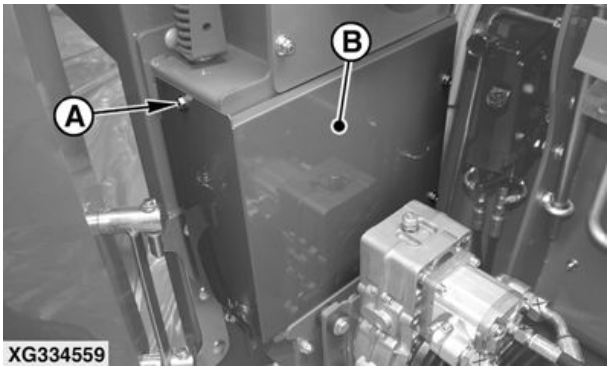
OUCC002,00055D8 -19-15DEC17-3/6

5. Remove flange screws (A), then remove lower cover (B).

A—Flange Screw (3 used) **B—Cover**



XG334559 —UN—06NOV17

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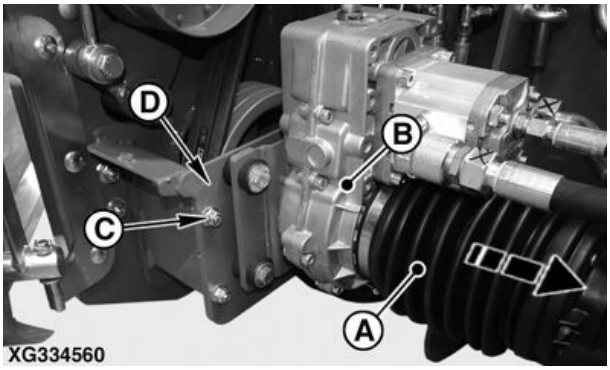
OUCC002,00055D8 -19-15DEC17-4/6

6. Disconnect driveline (A) from the reduction gear (B), then remove the four flange nuts (C) of the plate (D).
7. Slide reduction gear assembly (B) away from the drive shaft (E) so that the drive belts (F) can be removed from pulleys (G, H).

A—Driveline
B—Reduction Gear
C—Flange Nut (4 used)
D—Plate
E—Drive Shaft
F—Drive Belt (3 used)
G—Pulley—Upper
H—Pulley—Lower



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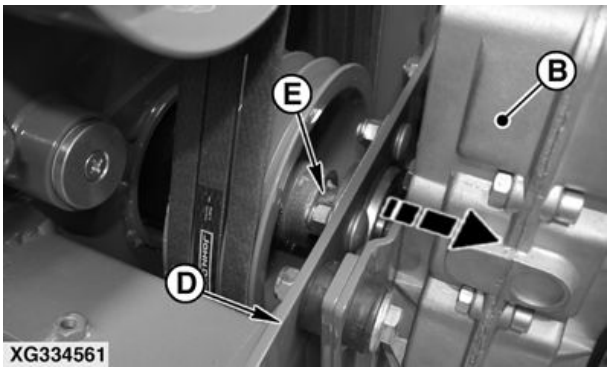

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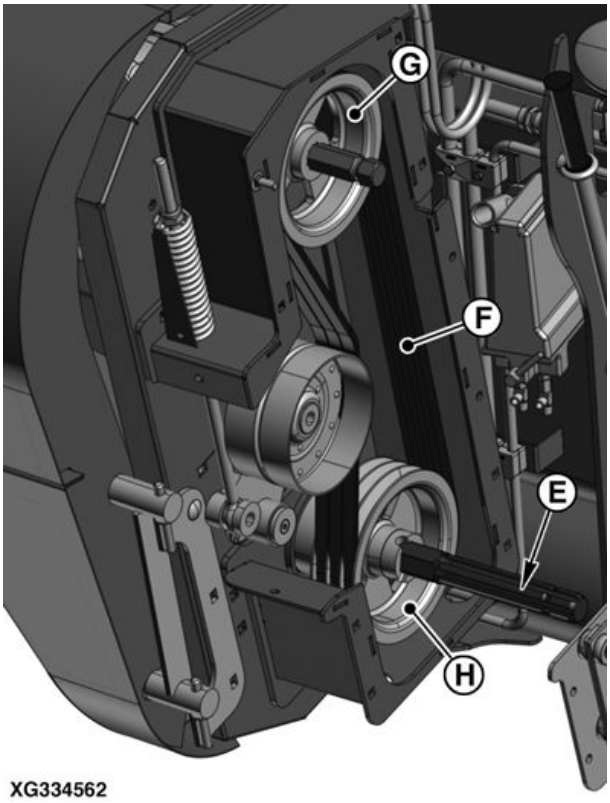

XG334562 —UN—06NOV17

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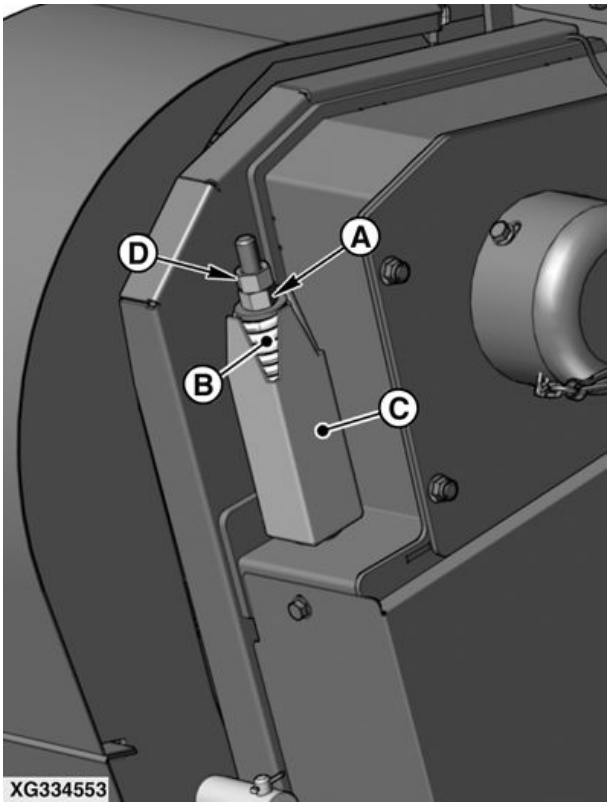
OUCC002,00055D8 -19-15DEC17-5/6

8. Assemble components in reverse order of the removal process.
9. Adjust tensioning nut (A) in such a way that the length of the spring (B) equals the length of the gauge (C).

   Tighten lock nut (D).

A—Tensioning Nut
B—Spring
C—Gauge
D—Lock Nut



XG334553 —UN—18DEC17

OUCC002,00055D8 -19-15DEC17-6/6

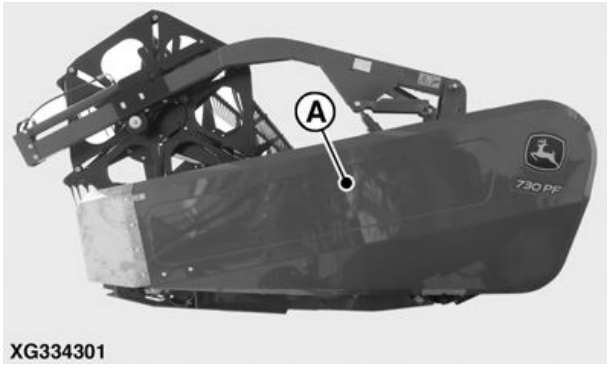
Replace Cutterbar Knife

To replace the cutterbar knife, proceed as follows:

1. Lower cutting platform to the ground.
2. Open left-hand side shield (A).

NOTE: On 735PF and 740PF, repeat on the opposite side, if necessary.

A—Side Shield



XG334301 —UN—04NOV17

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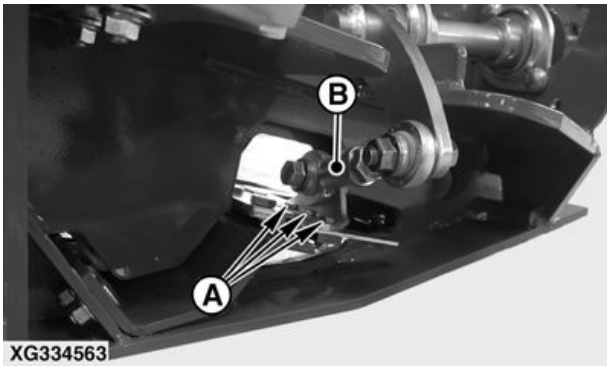
OUCC002,00055DC -19-14DEC17-1/6

3. On 722PF—730PF, remove the attaching screws (A) from the connecting rod assembly (B).

IMPORTANT: Make sure to keep the connecting rod initial length.

A—Attaching Screw (4 used) **B—Connecting Rod**



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XG334564

XG334564 —UN—06NOV17

OUCC002,00055DC -19-14DEC17-2/6

4. Manually rotate the knife head (A) until flange screws (B) are accessible, then remove the flange screws (B).
5. Loosen clamping screw (C).

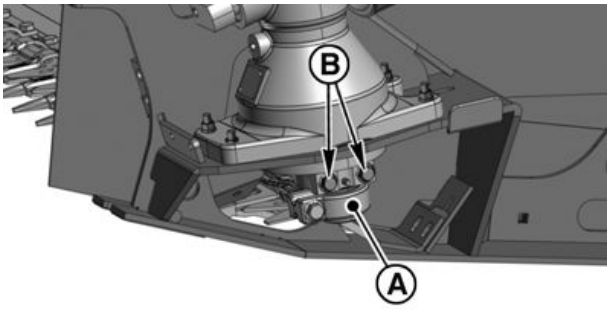
CAUTION: To avoid personal injury, always wear gloves when handling knives, and stand to the rear when removing or installing knives.

6. Pull knife through guards until knife head (A) and knife head bearing are separated from knife drive case.

NOTE: On 735PF and 740PF, repeat on the opposite side, if necessary.

7. Remove clamping screw (C).

A—Knife Head
B—Flange Screw
C—Clamping Screw



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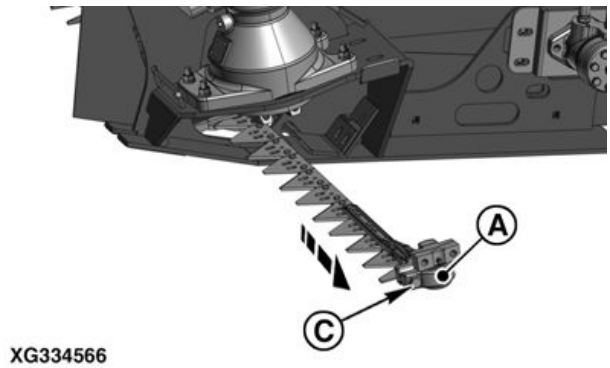

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XG334566 —UN—06NOV17

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OUCC002,00055DC -19-14DEC17-3/6

8. **Replace Bearing Race:**

   a. Using a pair of self-locking pliers (A), apply light pressure to relief area of knife head to expand it.

   b. Remove knife head bearing (B).

   c. Remove bearing race (C).

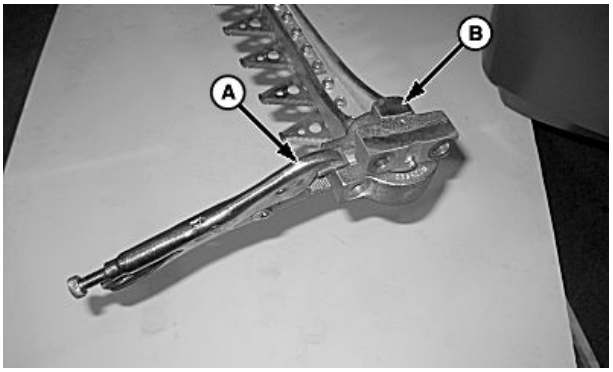
IMPORTANT: The bearing race maintains a smooth drive operation and proper knife head alignment. Replace bearing race every time a major component failure has occurred in knife head or knife drive case area, or every time the cutting platform has been previously operated with improper knife head alignment.

   d. Install new bearing race (C) in knife head of new knife to be installed.

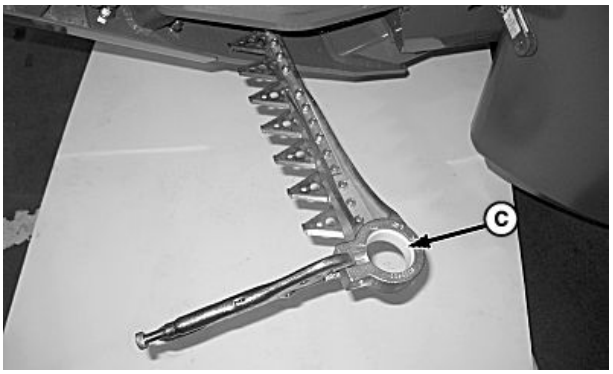
   e. Install knife head bearing (B) in the knife head.

   f. Remove self-locking pliers (A).

A—Self-Locking Pliers
B—Knife Head Bearing
C—Bearing Race



H92139 —UN—09JUN08



H92140 —UN—09JUN08

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OUCC002,00055DC -19-14DEC17-4/6

CAUTION: To avoid personal injury, always wear gloves when handling knives, and stand to the rear when removing or installing knives.

9. Install clamping screw (A), but do not tighten at this stage. Push knife back into guards until bearing contacts drive. Ensure that drive is positioned to accept bearing, then lightly tap components together.

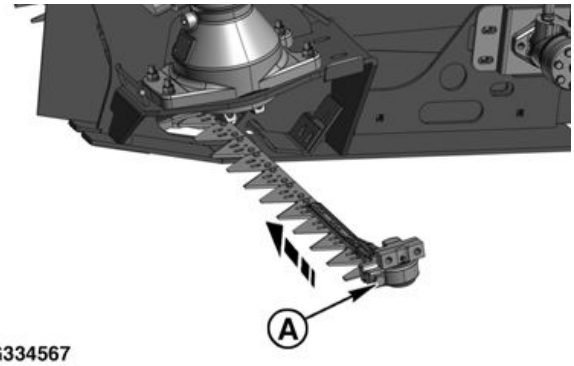
NOTE: On 735PF and 740PF, repeat on the opposite side, if necessary.

IMPORTANT: On 735PF and 740PF, set knife timing. See Set Knife Timing (735PF and 740PF Only) in this section.

IMPORTANT: Setting of cutterbar is critical. If the knife head is not set correctly, binding and drive failure can occur.

On 722PF—730PF, attach the connecting rod assembly (B) on the cutterbar knife with attaching screws (C).

A—Clamping Screw
B—Connecting Rod
C—Attaching Screw (4 used)



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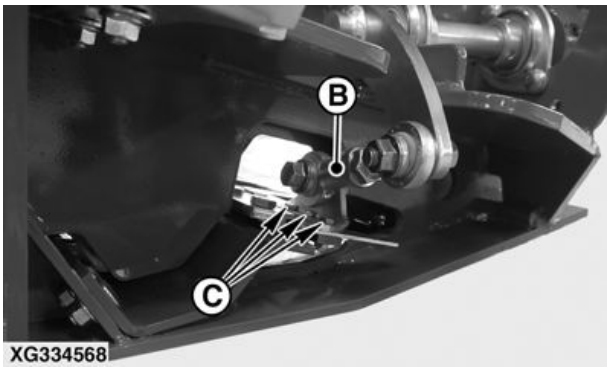

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OUCC002,00055DC -19-14DEC17-5/6

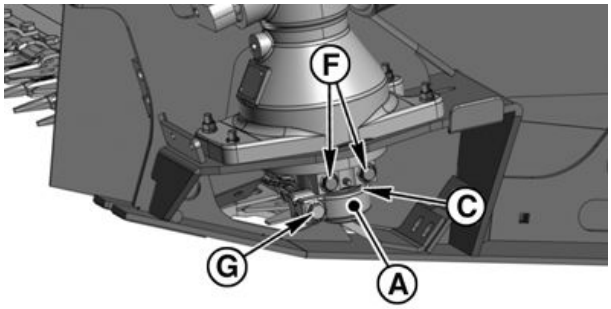
10. Set vertical position and angle of knife head (A), so cutting surface is centered in the guard slot and is parallel to bottom of the guard slot (B).

NOTE: Make sure that the knife head (A) does not contact bearing shield (C).

Ensure that a gap (D) exists at both locations between the knife back (E) and first guard.

11. Tighten flange screws (F) to **130 N·m (96 lb·ft)**.
12. Tighten clamping screw (G) to **90 N·m (66 lb·ft)**.
13. Verify that the knife section is still properly positioned in the first guard slot after the knife head screw is fully tightened.
14. Close side shields.

A—Knife Head
B—Guard Slot
C—Bearing Shield
D—Gap (2 locations)
E—Knife Back
F—Flange Screw
G—Clamping Screw



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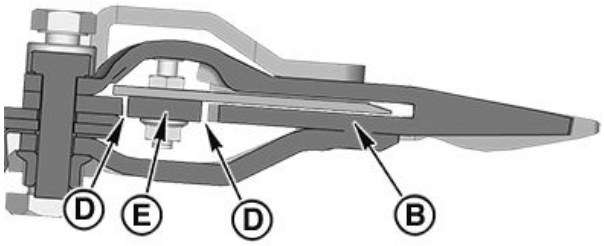


ZX1049144

ZX1049144 —UN—25JUL14

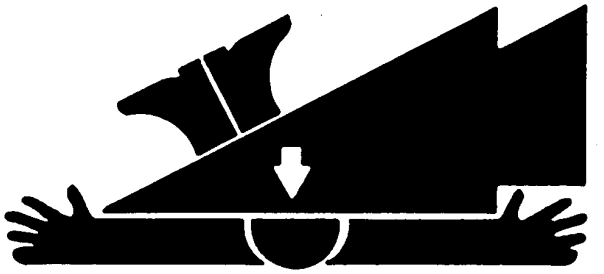
OUCC002,00055DC -19-14DEC17-6/6

Replace Cutterbar Wear Plates

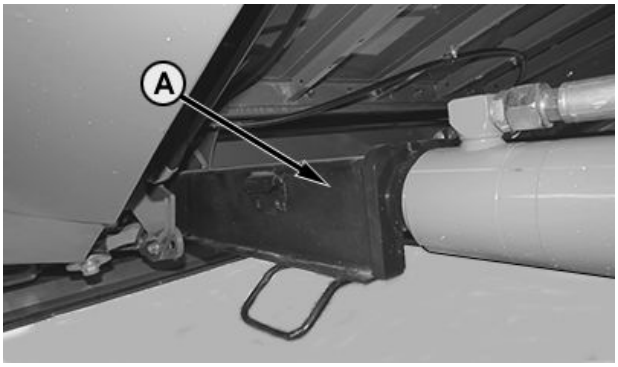
⚠ CAUTION: Before working under the cutting platform, raise it fully and put safety stop (A) on the hydraulic cylinder.

Lower safety stop (A) onto piston rod.

A—Safety Stop



TS696 —UN—21SEP89



ZX1045972 —UN—13JAN14

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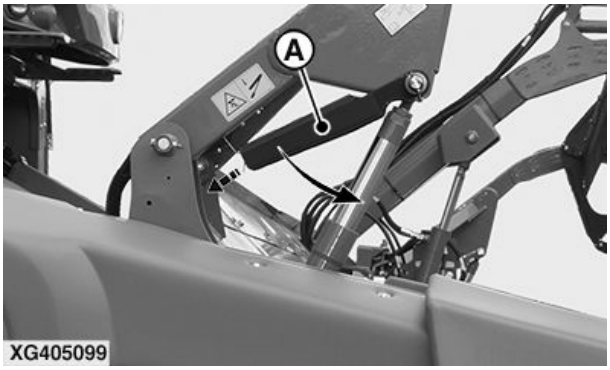
OUCC002,00055F3 -19-21MAR20-1/3

Fully extend reel lift cylinders.

Set the reel safety stops (A) on both sides of platform. Make sure that safety stop (A) is engaged around cylinder rod, then lower reel.

A—Safety Stop



XG405099 —UN—21MAR20

OUCC002,00055F3 -19-21MAR20-2/3

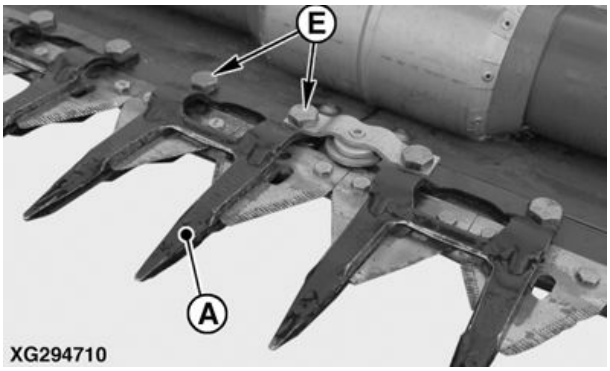
Remove relevant knife guard (A), then check wear plate (B) for wear condition.

Wear plates (B) are located along entire length of knife back and are adjustable for wear on knife back. Edges of wear plates (B) must line up with knife back along its entire length.

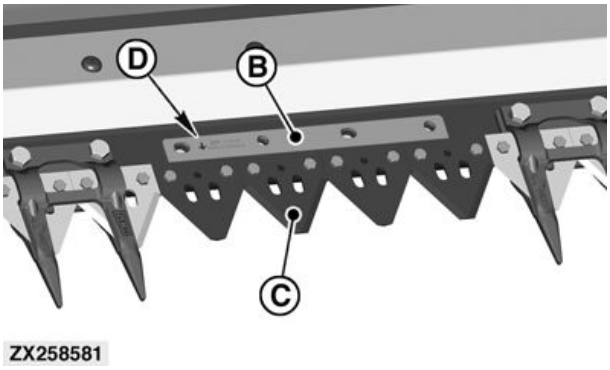
IMPORTANT: Install new wear plate (B) so that stamped arrow (D) is orientated toward back of knife (C) as shown.

Tighten knife guard attaching bolt (E) to **62 N·m (46 lb·ft)**.

A—Knife Guard
B—Wear Plate
C—Knife
D—Arrow
E—Bolt



XG294710 —UN—25OCT16



ZX258581 —UN—20OCT15

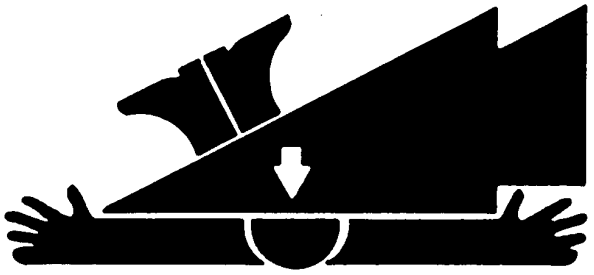
OUCC002,00055F3 -19-21MAR20-3/3

Replace Cutterbar Roller Guides

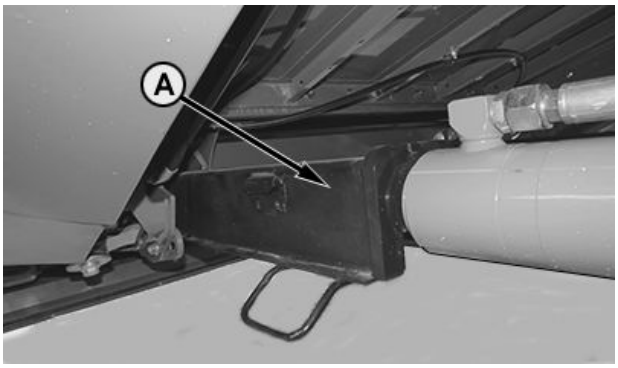
CAUTION: Before working under the cutting platform, raise it fully and put safety stop (A) on the hydraulic cylinder.

Lower safety stop (A) onto piston rod.

A—Safety Stop



TS696 —UN—21SEP89



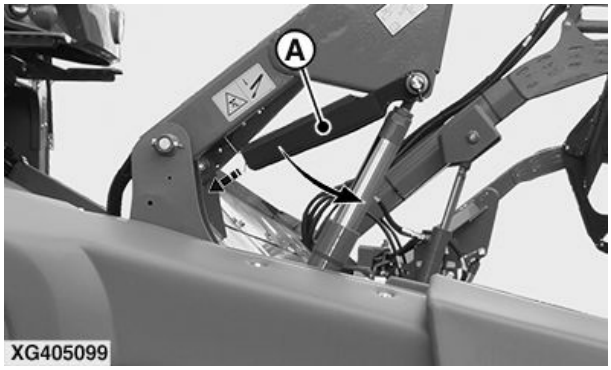
ZX1045972 —UN—13JAN14

OUCC002,00055F2 -19-21MAR20-1/3

Fully extend reel lift cylinders.

Set the reel safety stops (A) on both sides of platform. Make sure that safety stop (A) is engaged around cylinder rod, then lower reel.

A—Safety Stop



XG405099 —UN—21MAR20

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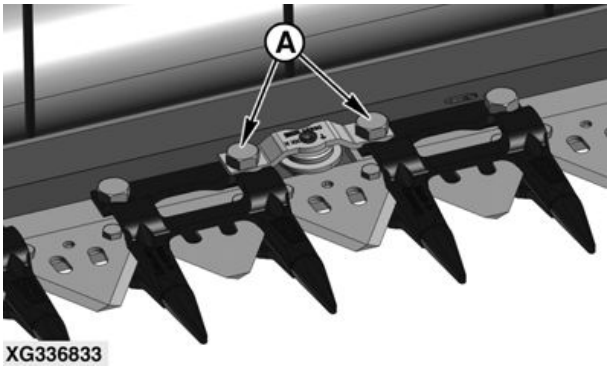
OUCC002,00055F2 -19-21MAR20-2/3

Remove relevant knife guard attaching bolts (A), then check roller guide (B) for wear condition.

IMPORTANT: Install new roller guide (B) so that stamped arrow (C) is orientated toward back of knife (D) as shown.

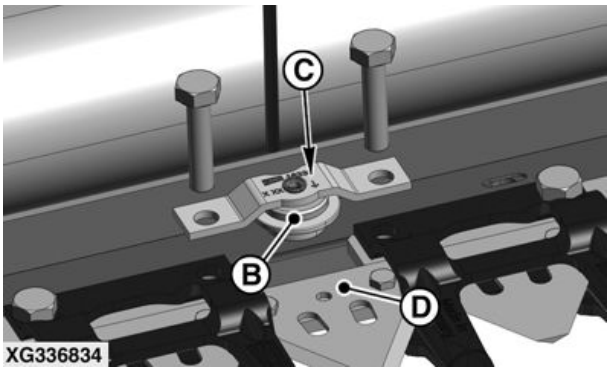
Tighten knife guard attaching bolt (A) to **62 N·m (46 lb·ft)**.

A—Bolt
B—Roller Guide
C—Arrow
D—Knife



XG336833

XG336833 —UN—16NOV17



XG336834

XG336834 —UN—16NOV17

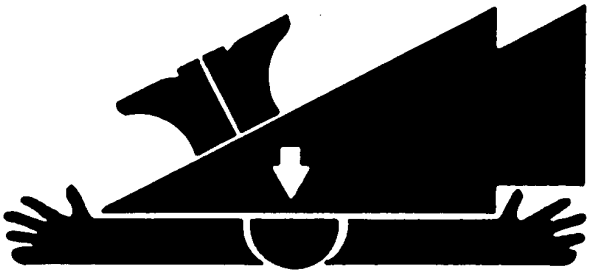
OUCC002,00055F2 -19-21MAR20-3/3

Set Knife Timing (735PF and 740PF Only)

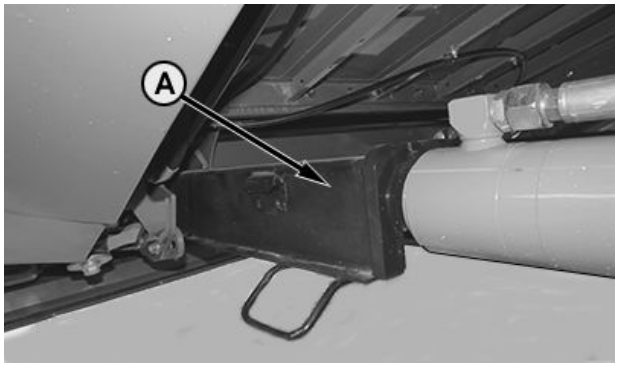
CAUTION: Before working under the cutting platform, raise it fully and put safety stop (A) on the hydraulic cylinder.

Lower safety stop (A) onto piston rod.

A—Safety Stop



TS696 —UN—21SEP89



ZX1045972 —UN—13JAN14

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OUCC002,00055DF -19-21MAR20-1/6

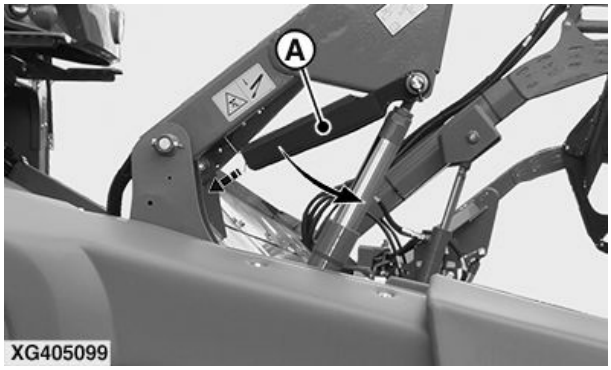
Fully extend reel lift cylinders.

Set the reel safety stops (A) on both sides of platform. Make sure that safety stop (A) is engaged around cylinder rod, then lower reel.

IMPORTANT: If knives are not synchronized, the cutting platform vibrates and can lead to component damage.

To set knife timing, proceed as follows:

A—Safety Stop

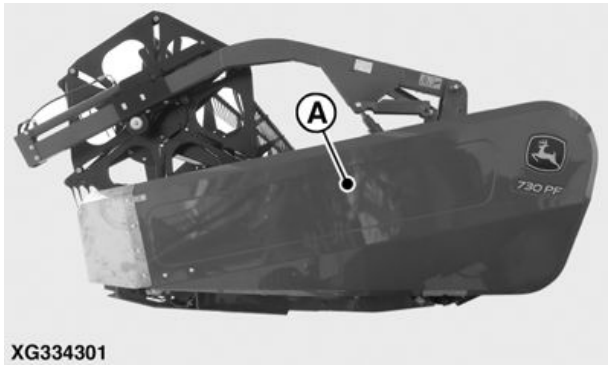


XG405099 —UN—21MAR20

OUCC002,00055DF -19-21MAR20-2/6

1. On both sides, open side shield (A).

A—Side Shield



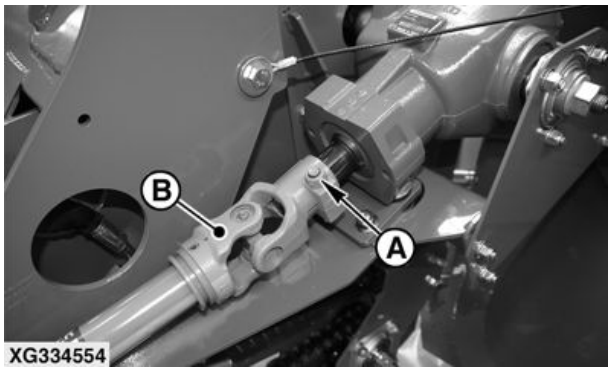
XG334301 —UN—04NOV17

OUCC002,00055DF -19-21MAR20-3/6

2. On both sides, remove retaining screw (A).

   Disconnect drive shaft (B) from the main drive gear case shaft and put it aside.

A—Retaining Screw **B—Drive Shaft**



XG334554 —UN—06NOV17

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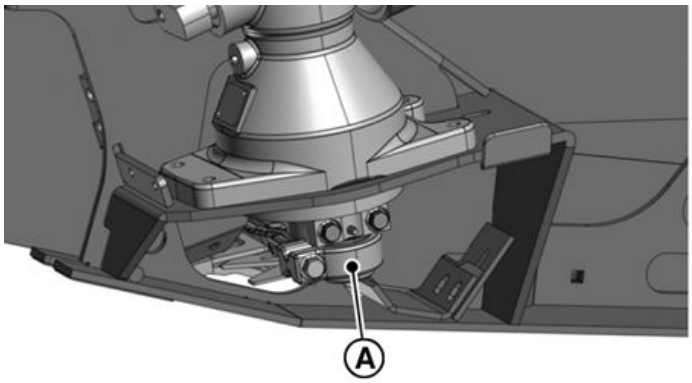
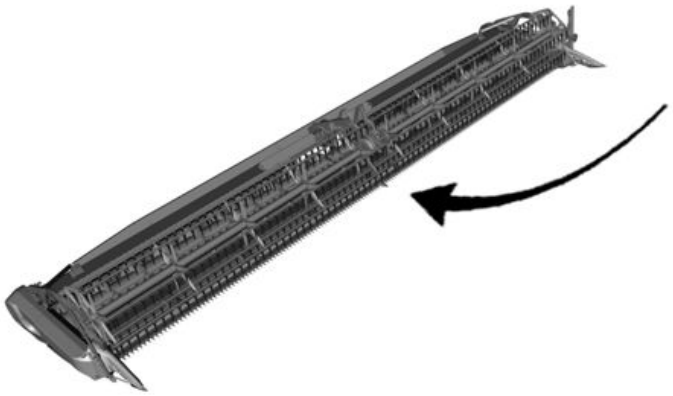
OUCC002,00055DF -19-21MAR20-4/6

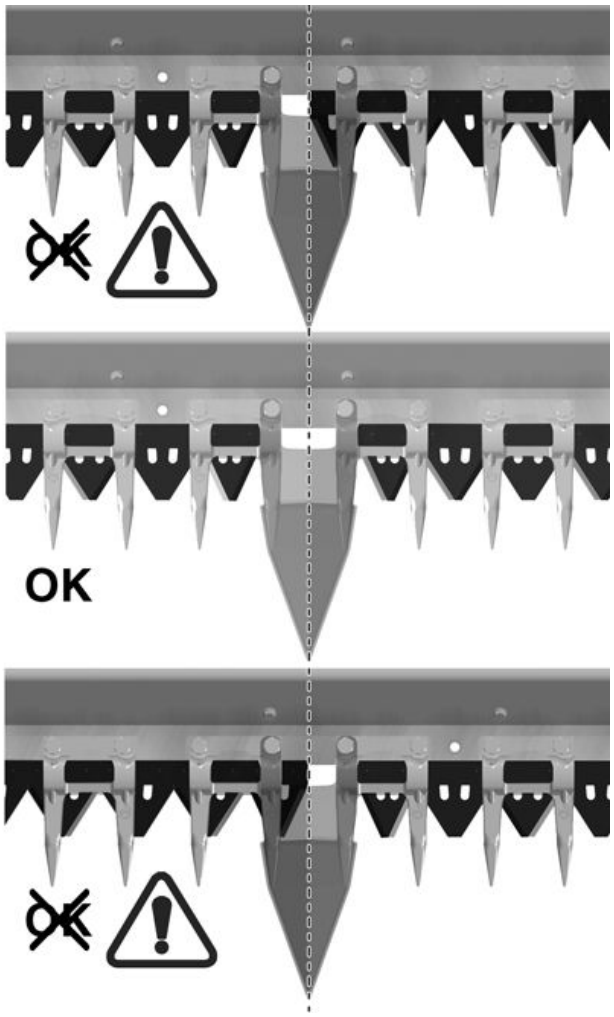




XG336823

A—Knife Head

3. On both sides, rotate knife drive gear case by hand so that knife head (A) is fully outward.

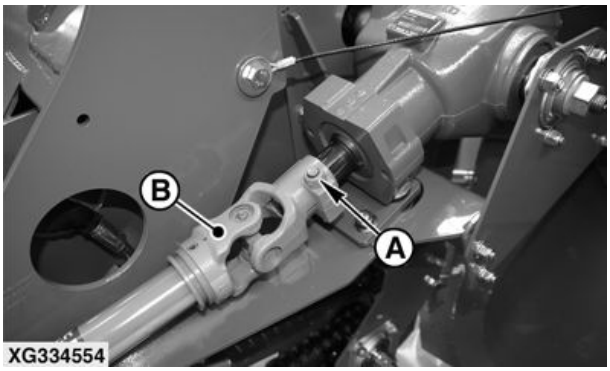


Check the correct position of knives at the level of the central knife deflector (see illustration).

OUCC002,00055DF -19-21MAR20-5/6

4. Reconnect drive shaft (B) and secure with retaining screw (A).
5. Tighten retaining screw (A) to **140 N·m (103 lb·ft)**.

A—Retaining Screw **B—Drive Shaft**



OUCC002,00055DF -19-21MAR20-6/6

Align Knife Head and Knife Drive

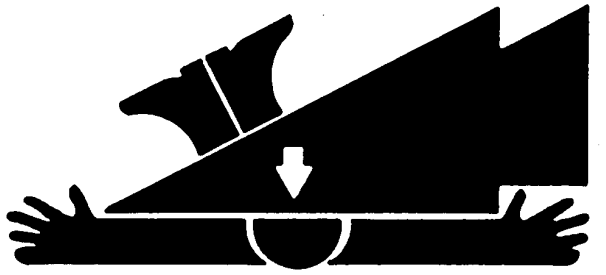
NOTE: Efficient cutting performance requires a good cutting edge and proper component alignment.

Timely replacement of worn knife guards and sections helps maintain good cutting performance while reducing loads and extending the life of drive components.

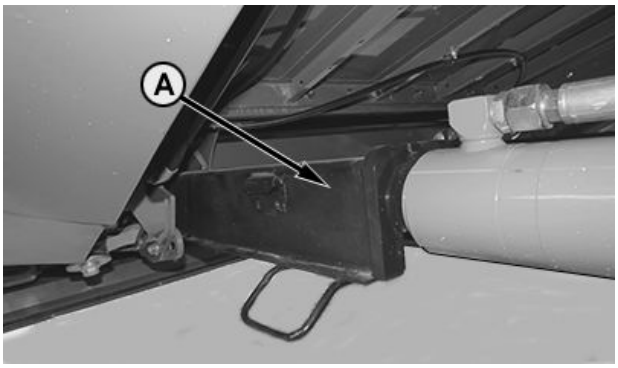
Proper adjustment and alignment of knife guards and drive components also improves cutting performance and reduce system loads.

Proper knife head and knife drive alignment are critical in achieving effective cutting performance and drive durability. Improper alignment can cause knife binding at the first guard during knife strokes, causing heat buildup, accelerated wear, and high knife loads, all factors which can shorten drive life.

Use the following steps to check/adjust knife head and knife drive alignments:



TS696 —UN—21SEP89



ZX1045972 —UN—13JAN14

A—Safety Stop

⚠ CAUTION: Before working under the cutting platform, raise it fully and put safety stop (A) on the hydraulic cylinder.

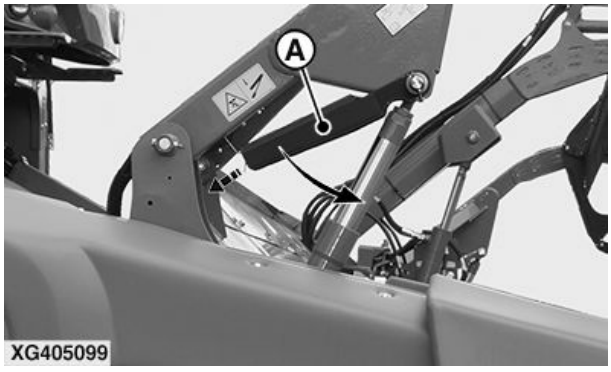
1. Lower safety stop (A) onto piston rod.

OUCC002,00055E3 -19-21MAR20-1/9

2. Fully extend reel lift cylinders.

   Set the reel safety stops (A) on both sides of platform. Make sure that safety stop (A) is engaged around cylinder rod, then lower reel.

A—Safety Stop



XG405099 —UN—21MAR20

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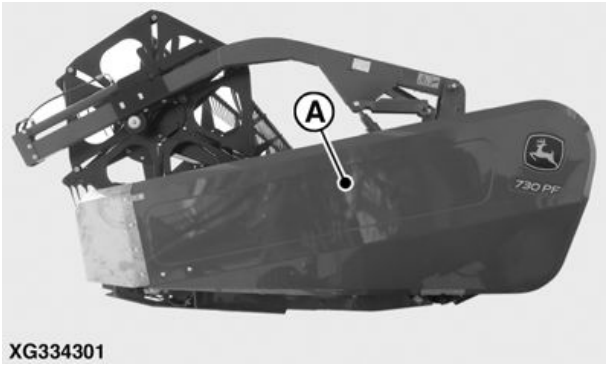
OUCC002,00055E3 -19-21MAR20-2/9

3. Open side shield (A).

A—Side Shield



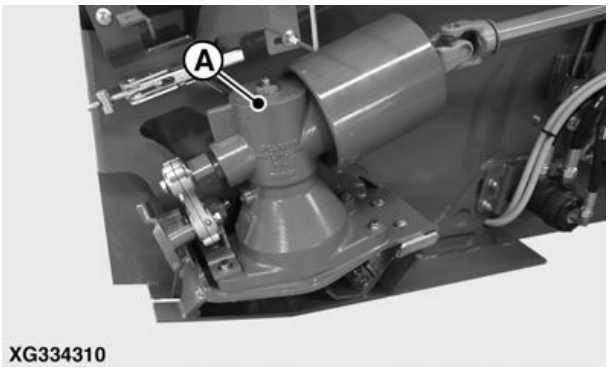
XG334301 —UN—04NOV17

OUCC002,00055E3 -19-21MAR20-3/9

4. Turn knife drive gear case (A) by hand.

   The knife drive gear case should turn easily. If the knife drive gear case does not turn easily because the knife is binding, knife head and knife guide re-alignment are necessary.

A—Knife Drive Gear Case

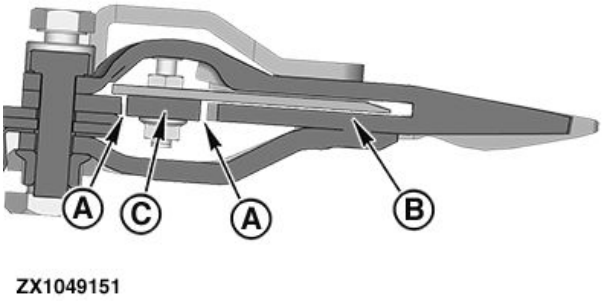


XG334310 —UN—06NOV17

OUCC002,00055E3 -19-21MAR20-4/9

5. Visually inspect the positions (A) and (B) of the knife section in the first knife guard slot and the knife back (C) position in the guard. If there is contact at either location, knife head and knife drive case re-alignment is necessary.

A—Gap
B—Gap
C—Knife Back



ZX1049151 —UN—25JUL14

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OUCC002,00055E3 -19-21MAR20-5/9

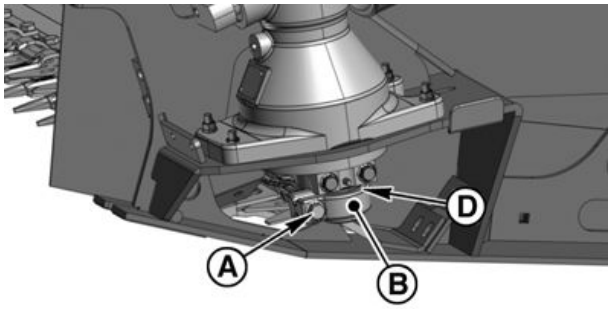
6. Loosen knife head clamping screw (A).
7. Adjust the vertical position and the angle of knife head (B) in such a way that the knife surface is centered in the guide slot and parallel to the bottom of the guide slot (C).

NOTE: Make sure that knife head (B) does not contact bearing shield (D).

8. Insure that a gap (E) exists at both locations between knife back (F) and first guard.

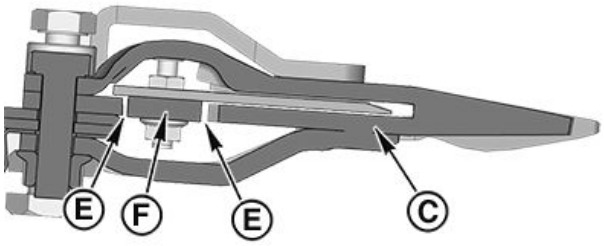
   If the gap is uneven, change the position of the knife drive case and readjust the knife head.

A—Clamping Screw
B—Knife Head
C—Guide Slot
D—Bearing Shield
E—Gap
F—Knife Back



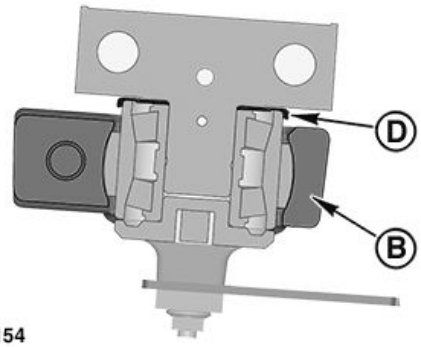
XG336824

XG336824 —UN—16NOV17



ZX1049153

ZX1049153 —UN—28JUL14



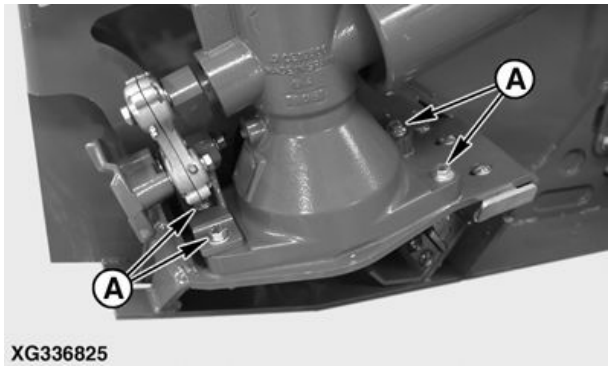
ZX1049154

ZX1049154 —UN—25JUL14

OUCC002,00055E3 -19-21MAR20-6/9

9. Loosen four screws (A) to adjust.
10. Use a rubber mallet to move the knife drive gear case slightly forward or backward to obtain the correct gap.
11. Tighten attaching screws (A) to **140 N·m (103 lb·ft)**.

A—Screws



XG336825

XG336825 —UN—16NOV17

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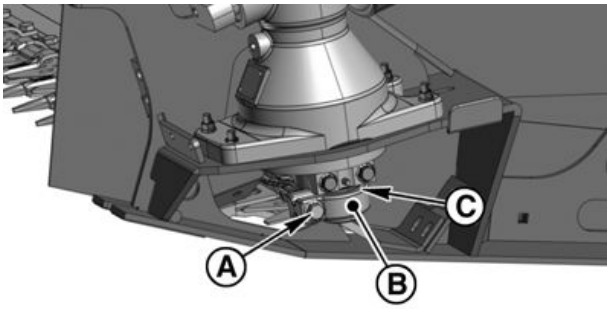
OUCC002,00055E3 -19-21MAR20-7/9

12. To access the clamping screw (A), rotate knife head (B). Slightly tighten clamping screw (A), then check distance to the bearing shield (C), and recheck all distances.

    Tighten clamping screw (A) to **90 N·m (66 lb·ft)**.

13. Verify that the knife section is still properly positioned in the first guard slot after the knife head clamping screw is fully tightened.

A—Clamping Screw
B—Knife Head
C—Bearing Shield



XG336826

XG336826 —UN—16NOV17

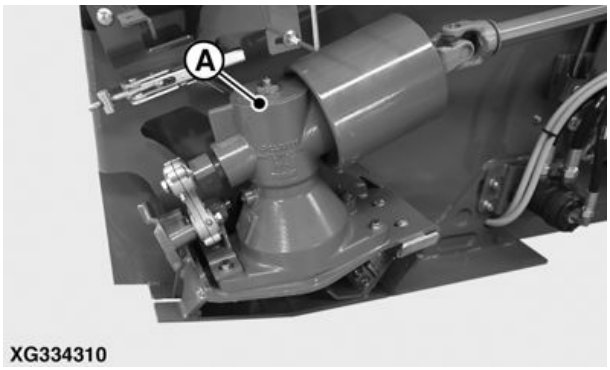
OUCC002,00055E3 -19-21MAR20-8/9

14. Turn knife drive gear case (A) by hand.

    The knife drive gear case should turn easily.

15. On 735PF and 740PF only, set knife timing. Refer to **Set Knife Timing (735PF and 740PF Only** in this section.

A—Knife Drive Gear Case



XG334310

XG334310 —UN—06NOV17

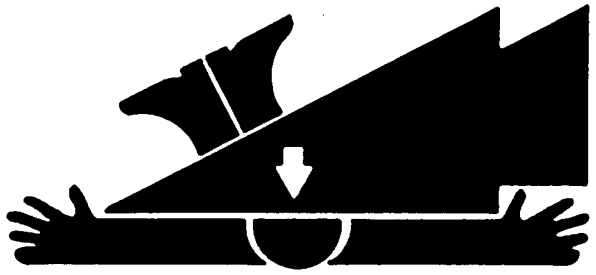
OUCC002,00055E3 -19-21MAR20-9/9

Replace Knife Sections

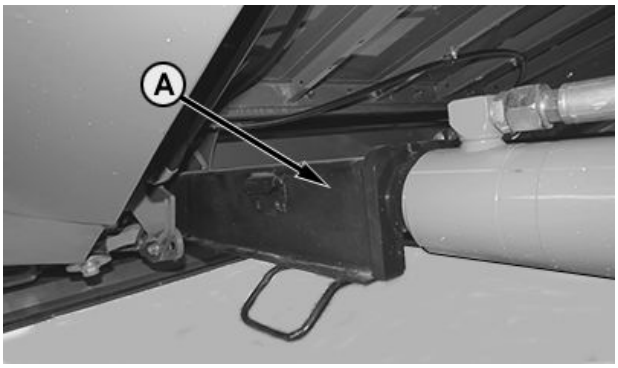
CAUTION: Before working under the cutting platform, raise it fully and put safety stop (A) on the hydraulic cylinder.

1. Lower safety stop (A) onto piston rod.

A—Safety Stop



TS696 —UN—21SEP89



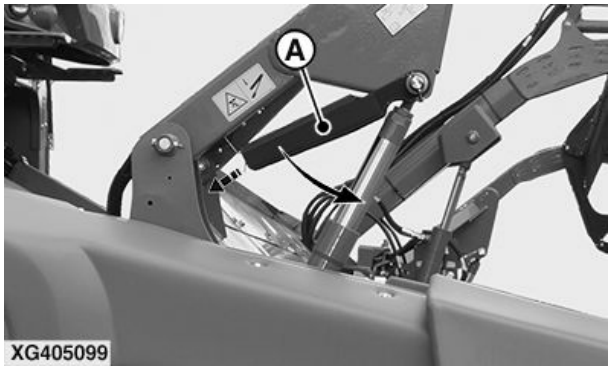
ZX1045972 —UN—13JAN14

OUCC002,00055E4 -19-21MAR20-1/3

2. Fully extend reel lift cylinders.

   Set the reel safety stops (A) on both sides of platform. Make sure that safety stop (A) is engaged around cylinder rod, then lower reel.

A—Safety Stop



XG405099 —UN—21MAR20

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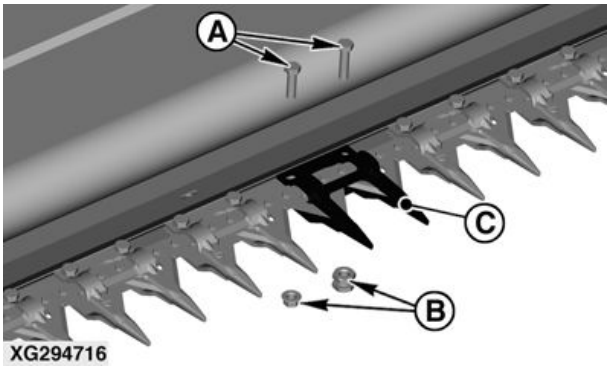
OUCC002,00055E4 -19-21MAR20-2/3

3. Remove screws (A), nuts (B), and knife guard (C).
4. Remove screws (D), nuts (E), and knife section (F).
5. Install new section.

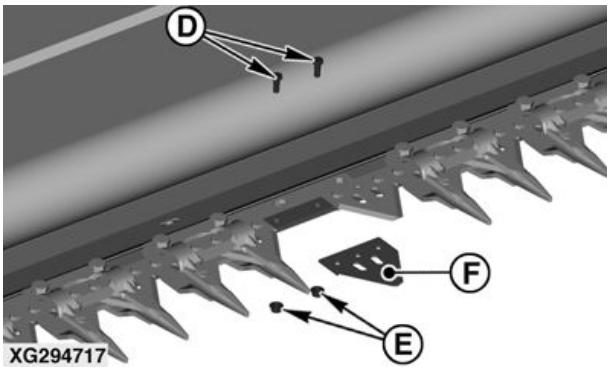
   Tighten screws (D) to **18 N·m (13 lb·ft)**.
6. Install knife guard (C), screws (A), and nuts (B) back in place.

A—Screw
B—Nut
C—Knife Guard
D—Screw
E—Nut
F—Knife Section



XG294716

XG294716 —UN—25OCT16



XG294717

XG294717 —UN—25OCT16

OUCC002,00055E4 -19-21MAR20-3/3

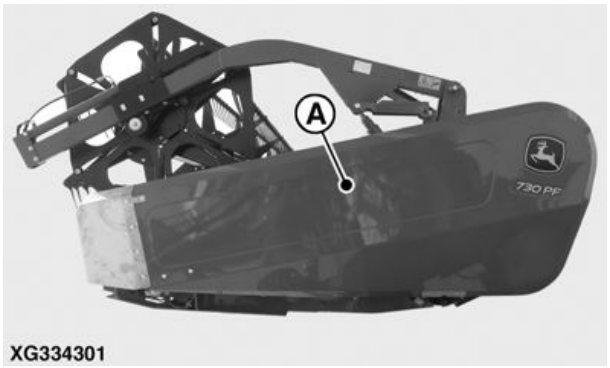
Adjust Auger Drive Chain Tension

CAUTION: Avoid serious injury from cutterbar movement when auger turns.

Adjust auger drive chain tension as follows:

1. Open left-hand side shield (A).

A—Side Shield



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XG334301 —UN—04NOV17

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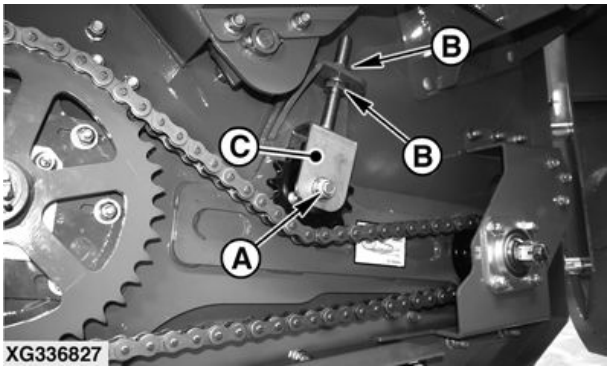
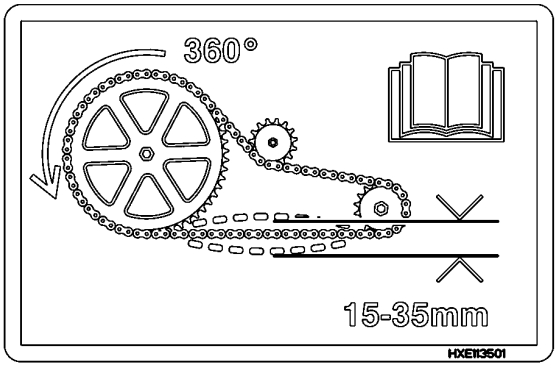
OUCC002,00055E6 -19-15NOV17-1/2

2. Loosen self-locking nut (A).
3. Using lock nuts (B), adjust tensioner (C) so that a chain tension slack of **15—35 mm (0.6—1.4 in)** on the opposite strand is obtained.
4. Tighten self-locking nut (A) and lock nuts (B).

A—Self-Locking Nut
B—Lock Nuts
C—Tensioner



XG336827 —UN—16NOV17



ZX310236 —UN—30MAR17

OUCC002,00055E6 -19-15NOV17-2/2

Replace Auger Fingers and Retainers (Up to S.N. 021049)

CAUTION: Whenever the conveyor auger is rotated by hand, the cutterbar moves as well. Keep hands, feet, and clothing away from cutterbar when rotating conveyor auger by hand.

CAUTION: Always lower the safety stops when working under the reel.

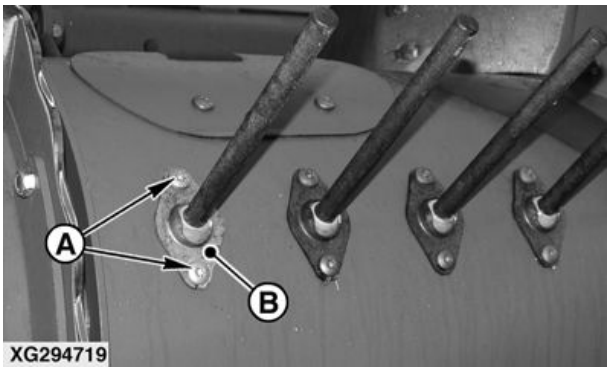
NOTE: The auger does not have to be removed to repair fingers and retainers.

1. Raise and secure reel to its highest position.
2. Move reel to its extreme forward position.
3. To remove the screws (A) and the guide (B), use JDC3 or TORX® T-40 tool.

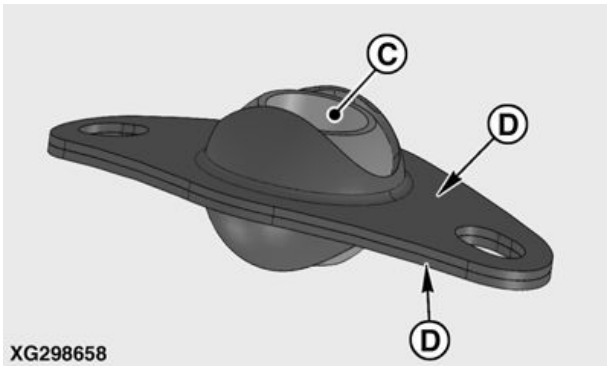
IMPORTANT: Check ball (C) for wear conditions and note position of both plates (D) for further installation.

Make sure the ball (C) is not squeezed between the plates (D) and can rotate freely.

NOTE: Tool JDC3 is available from a local supplier. Use tool with 1/4 to 3/8-in adapter.



XG294719 —UN—25OCT16

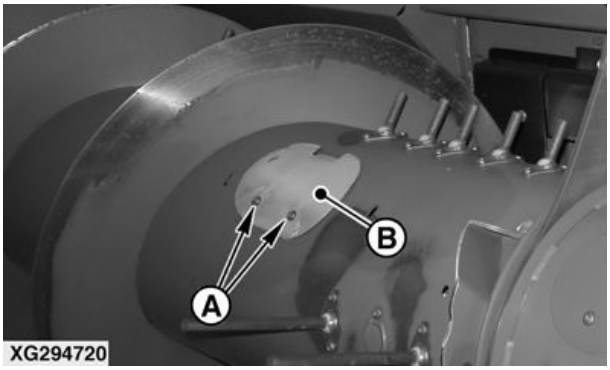


XG298658 —UN—24NOV16

A—TORX® Screw
B—Guide
C—Ball
D—Plate

4. Use JDC3 or TORX® T-40 tool to loosen TORX® screws (A) and remove access hole cover (B).

A—TORX® Screw
B—Access Hole Cover



XG294720 —UN—25OCT16

Continued on next page

5. Remove quick-lock pins (A) and remove broken parts.

IMPORTANT: Replace auger finger retainers (C) when replacing auger fingers (B).

6. Install finger (B), retainer (C) and secure quick-lock pins (A).

IMPORTANT: Make sure auger fingers (B) are securely fastened by quick-lock pins (A) before reinstalling access hole cover. Engage quick-lock pins (A) in same way as removed.

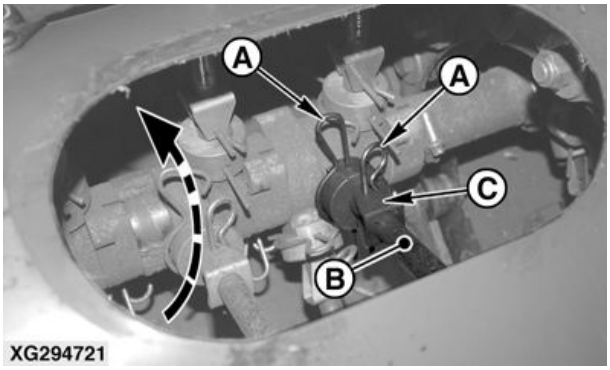
IMPORTANT: In the center of auger, note the position of the locking rings (D), the inner bearings (E), and the outer bearings (F) for further installation.

When removing a finger assembly in the middle of the auger, always insert a spacer (G) at the location of the removed finger so that the other fingers are kept in place.

NOTE: A set of four spacers (G) is stored in the tool box.

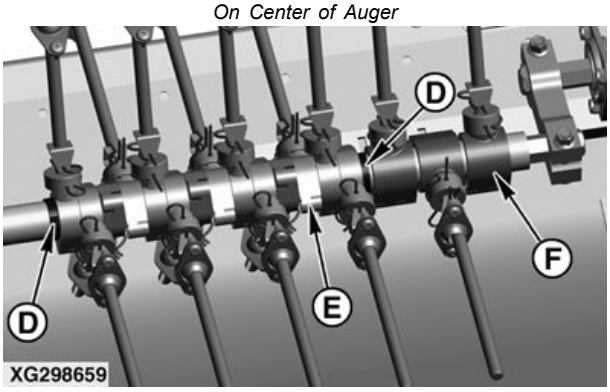
7. Install previously removed parts back in place.

A—Quick-Lock Pin
B—Finger
C—Retainer
D—Ring
E—Bearing—Inner Fingers
F—Bearing —Outer Fingers
G—Spacer

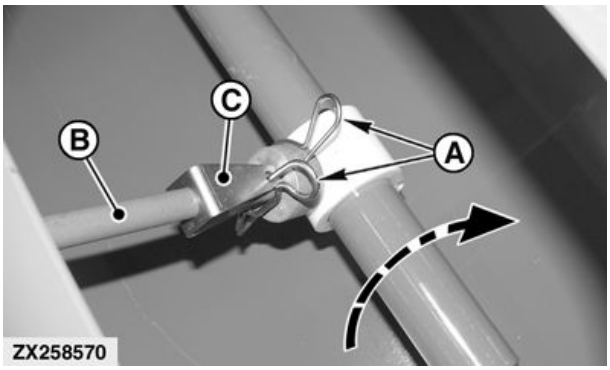


XG294721 —UN—19DEC16

On Center of Auger

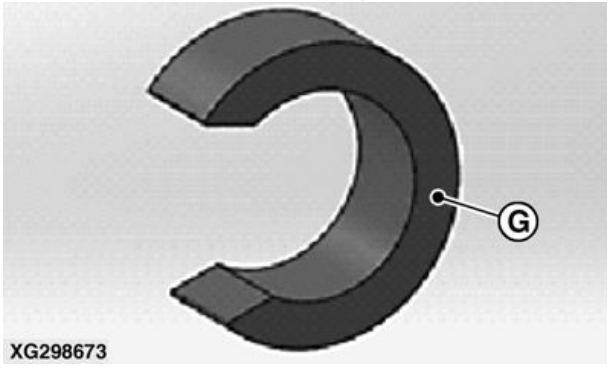


XG298659 —UN—24NOV16



ZX258570 —UN—20OCT15

On Side of Auger



XG298673 —UN—28NOV16

OUCC002,0006433 -19-03MAR20-3/3

Replace Auger Fingers and Retainers (From S.N. 021050)

CAUTION: Whenever the conveyor auger is rotated by hand, the cutterbar moves as well. Keep hands, feet, and clothing away from cutterbar when rotating conveyor auger by hand.

CAUTION: Always lower the safety stops when working under the reel.

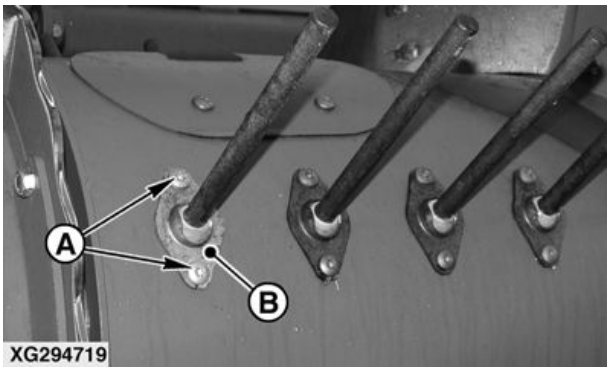
NOTE: To repair fingers and retainers, it is not necessary to remove the auger.

1. Raise and secure the reel to its highest position.
2. Move reel to its extreme forward position.
3. To remove the screws (A) and the guide (B), use JDC3 or TORX® T-40 tool.

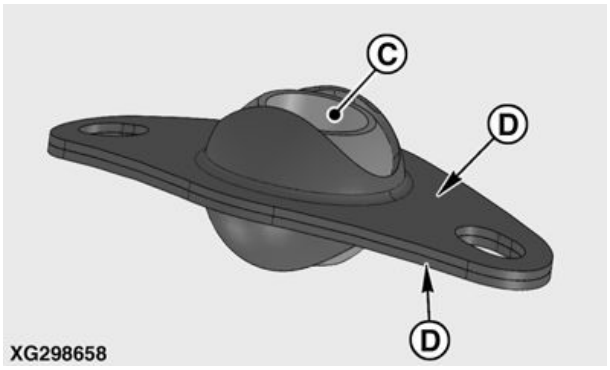
IMPORTANT: Check ball (C) for wear conditions and note position of both plates (D) for further installation.

Make sure the ball (C) is not squeezed between the plates (D) and can rotate freely.

NOTE: Tool JDC3 is available from a local supplier. Use tool with 1/4 to 3/8 in adapter.



XG294719 —UN—25OCT16



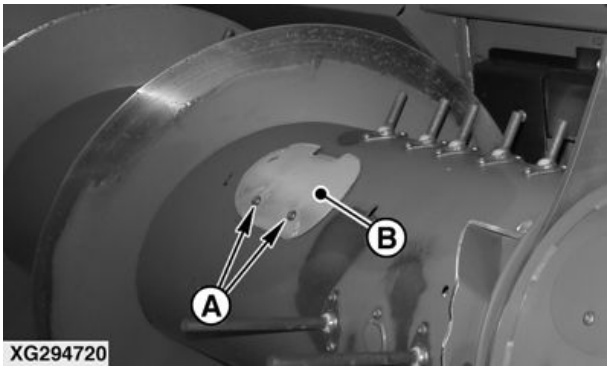
XG298658 —UN—24NOV16

A—TORX® Screw
B—Guide
C—Ball
D—Plate

OUCC002,0006434 -19-03MAR20-1/3

4. Use JDC3 or TORX® T-40 tool to loosen TORX® screws (A) and remove access hole cover (B).

A—TORX® Screw **B—Access Hole Cover**



XG294720 —UN—25OCT16

Continued on next page

OUCC002,0006434 -19-03MAR20-2/3

5. Remove quick-lock pins (A) and remove broken parts.

IMPORTANT: Replace auger finger retainers (C) when replacing auger fingers (B).

6. Install finger (B), retainer (C), and secure quick-lock pins (A).

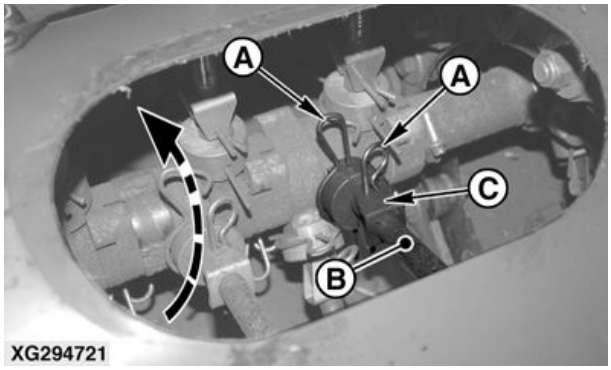
IMPORTANT: Make sure auger fingers (B) are securely fastened by quick-lock pins (A) before reinstalling access hole cover. Engage quick-lock pins (A) in the same way as removed.

IMPORTANT: In the center of auger, note the position of the locking rings (D), the inner bearings (E), and the outer bearings (F) for further installation.

When removing a finger assembly in the middle of the auger, the inner bearing (G) must stay in the auger so that the other fingers are kept in place.

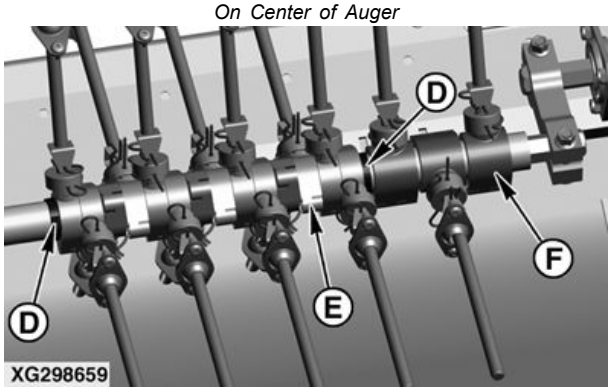
7. Install previously removed parts back in place.

A—Quick-Lock Pin
B—Finger
C—Retainer
D—Ring
E—Bearing—Inner Fingers
F—Bearing —Outer Fingers
G—Inner Bearing

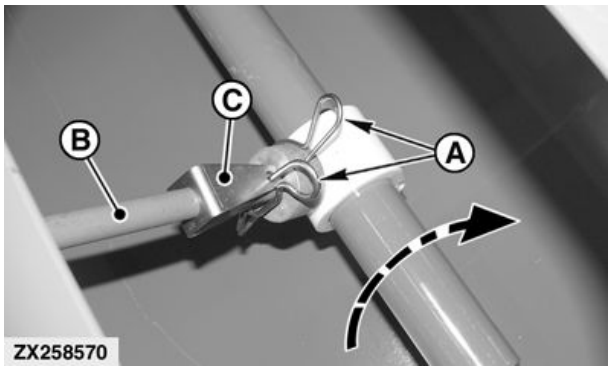


XG294721 —UN—19DEC16

On Center of Auger



XG298659 —UN—24NOV16



ZX258570 —UN—20OCT15

On Side of Auger

XG405092 —UN—03MAR20

OUCC002,0006434 -19-03MAR20-3/3

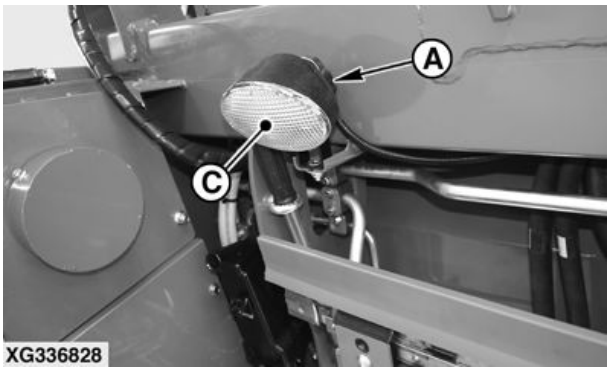
Replace Stubble Light Bulb (If Equipped)

1. Disconnect wiring harness (A) from bulb base (B).
2. Rotate bulb base to release it from housing (C).

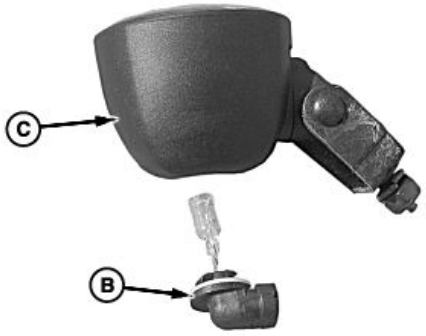
NOTE: Bulb does not separate from base, base and bulb assembly (B) is replaced as one piece.

3. Install new bulb base into housing.
4. Connect wiring harness and check alignment of light.

A—Harness Connector
B—Bulb Base
C—Housing



XG336828 —UN—16NOV17



H94014 —UN—13MAY09

OUCC002,00055EA -19-15NOV17-1/1

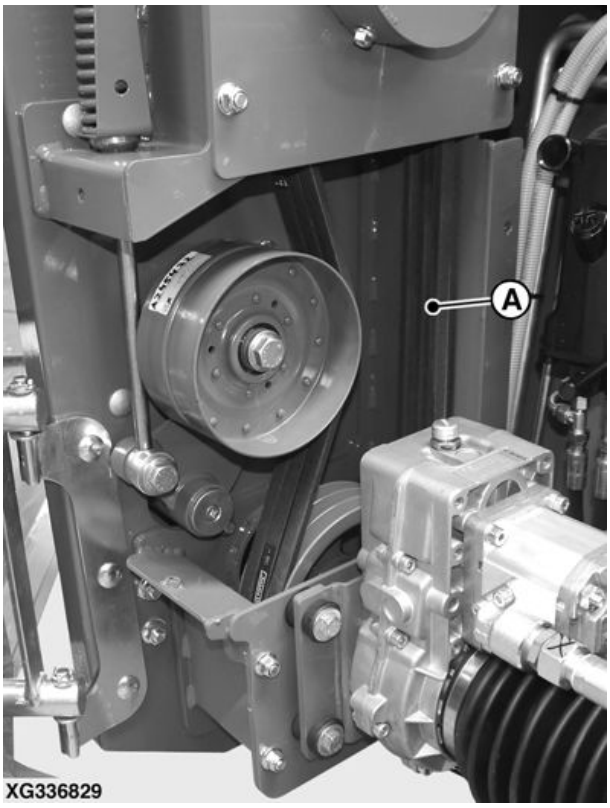
End of Season

CAUTION: Whenever the auger is rotated by hand, the cutterbar moves as well. Keep hands, feet, and clothing away from cutterbar when rotating the auger.

IMPORTANT: Do not use high-pressure washer spray directly on bearings, belt body PVC, decals, or any other sensitive areas. High-pressure water can remove seals, lubricants, and decals.

1. Clean the cutting platform thoroughly. Remove all chaff and dirt to avoid corrosion.
2. Lubricate the cutting platform. Grease the threads of all adjusting screws.
3. Loosen tension on drive belt (A). Clean the belt with an adequate non-flammable cleaning agent.
4. Repaint any areas where paint has been damaged.
5. If possible, shelter the cutting platform in a dry place.

A—Cutterbar Drive Belt



XG336829 —UN—16NOV17

OUCC002,00055EB -19-15NOV17-1/1

Beginning of Season Service

1. Clean the platform.
2. Clean belt bodies.
3. Put on belts and check tension.
4. Adjust chain and check tension.
5. Lubricate platform.
6. Go over platform and see that all bolts are tight and cotter pins are spread.
7. Run platform at half-speed for a few minutes.

OUCC002,00055EC -19-15NOV17-1/1

722PF—740PF Cutting Platforms

Cutting Platform

Weight	**722PF:** 2920 kg (6438 lb) **725PF:** 3140 kg (6922 lb) **730PF:** 3640 kg (8024 lb) **735PF:** 4290 kg (9458 lb) **740PF:** 4790 kg (10560 lb)
Width (overall)	**722PF:** 7.54 m (24 ft 3 in) **725PF:** 8.45 m (27 ft 3 in) **730PF:** 9.98 m (32 ft 3 in) **735PF:** 11.50 m (37 ft 3 in) **740PF:** 13.03 m (42 ft 3 in)
Total platform length without crop dividers	2700 mm (8 ft 10 in)
Cutterbar tilt adjusting range (on feeder house)	17°
Belt body	**722PF:** 5 belt bodies **725PF:** 5 belt bodies **730PF:** 6 belt bodies **735PF:** 7 belt bodies **740PF:** 8 belt bodies Width: 1417 mm (4 ft 7.8 in) Length (roller-to- roller): 450 mm (17.7 in) Hydraulic drive
Knife drive gear case	Planetary drive
Knife speed	1144 strokes/minute
Width of cut	**722PF:** 6.70 m (22 ft) **725PF** 7.60 m (25 ft) **730PF:** 9.15 m (30 ft) **735PF:** 10.70 m (35 ft) **740PF:** 12.20 m (40 ft)
Knife sections	
Cutterbar	Heavy-duty overserrated

Reel

Diameter	1100 mm (3 ft 7.3 in)
Number of reel bars	6
Reel speed	5 — 44 rpm
Height control	Hydraulic
Speed control	Hydraulic

Conveyor auger

Cylinder diameter	430 mm (16.9 in)
Diameter (flights included)	760 mm (2 ft 5.9 in)
Arrangement of auger fingers	In-line pattern (middle of auger) Spiraled (sides of auger)
Diameter of auger fingers	16 mm (0.63 in)

OUCC002,00055EE -19-15NOV17-1/1

Type Plates

Serial numbers identifying machine components or assemblies are stamped on components or factory serial number plates.

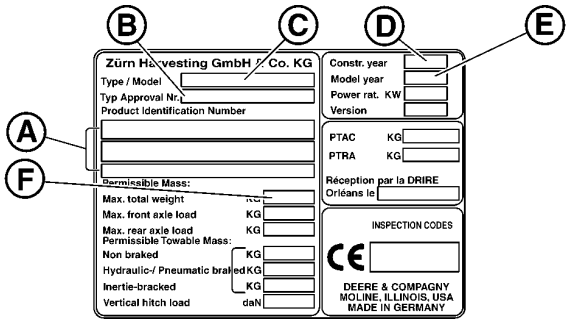
These numbers and letters are required when ordering replacement parts.

To ensure that you always have these numbers at hand, enter the appropriate serial numbers in the spaces provided in each illustration.

OUCC002,000474C -19-01OCT15-1/1

Cutting Platform (Product Identification) Type Plate

A—Product Identification Number
B—Type Approval Number (in Certain Countries Only)
C—Model
D—Year of Production
E—Model Year
F—Permissible Total Weight



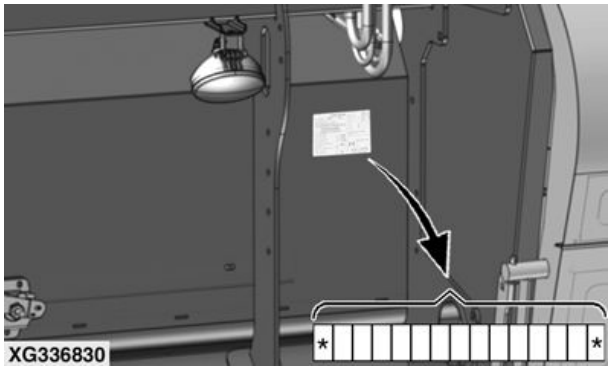
XG294636

XG294636 —UN—18OCT16

OUCC002,0004EB0 -19-11OCT16-1/1

Product Identification Number

The product identification number is located on the right side of the cutting platform.



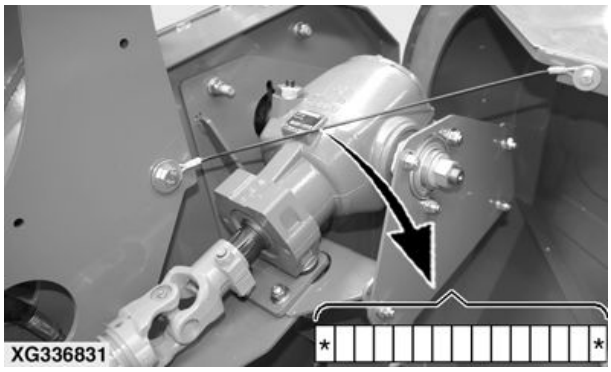
XG336830 —UN—16NOV17

OUCC002,00055EF -19-15NOV17-1/1

Machine Component Serial Numbers

Main Drive Gear Case Serial Number

The serial number is on the main drive gear case housing.



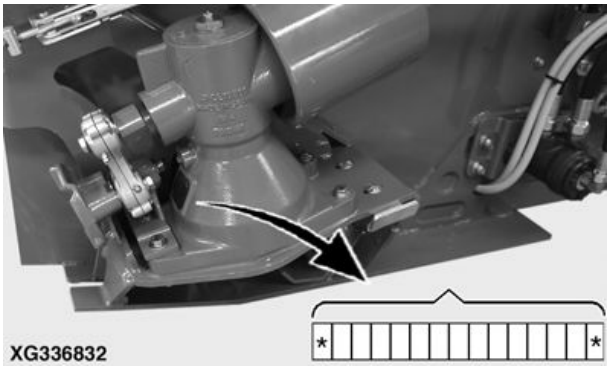
XG336831 —UN—16NOV17

Continued on next page

OUCC002,00055F0 -19-15NOV17-1/2

Knife Drive Gear Case Serial Number

The serial number is on the knife drive gear case housing.

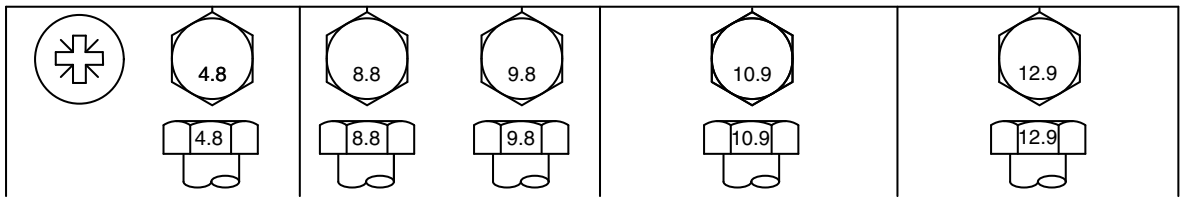


XG336832 —UN—16NOV17

OUCC002,00055F0 -19-15NOV17-2/2

Metric Bolt and Screw Torque Values

TS1742 —UN—31MAY18



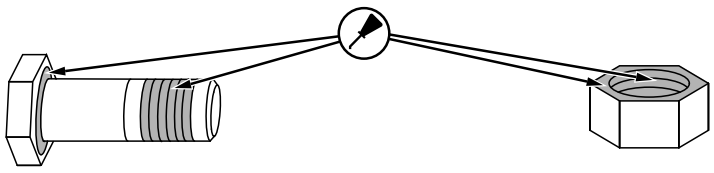
Bolt or Screw Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Hex Head[a]		Flange Head[b]		Hex Head[a]		Flange Head[b]		Hex Head[a]		Flange Head[b]		Hex Head[a]		Flange Head[b]	
	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in
M6	3.6	31.9	3.9	34.5	6.7	59.3	7.3	64.6	9.8	86.7	10.8	95.6	11.5	102	12.6	112
									N·m	lb·ft	N·m	lb·ft	N·m	lb·ft	N·m	lb·ft
M8	8.6	76.1	9.4	83.2	16.2	143	17.6	156	23.8	17.6	25.9	19.1	27.8	20.5	30.3	22.3
			N·m	lb·ft	N·m	lb·ft	N·m	lb·ft								
M10	16.9	150	18.4	13.6	31.9	23.5	34.7	25.6	46.8	34.5	51	37.6	55	40.6	60	44.3
	N·m	lb·ft														
M12	—	—	—	—	55	40.6	61	45	81	59.7	89	65.6	95	70.1	105	77.4
M14	—	—	—	—	87	64.2	96	70.8	128	94.4	141	104	150	111	165	122
M16	—	—	—	—	135	99.6	149	110	198	146	219	162	232	171	257	190
M18	—	—	—	—	193	142	214	158	275	203	304	224	322	245	356	263
M20	—	—	—	—	272	201	301	222	387	285	428	316	453	334	501	370
M22	—	—	—	—	365	263	405	299	520	384	576	425	608	448	674	497
M24	—	—	—	—	468	345	518	382	666	491	738	544	780	575	864	637
M27	—	—	—	—	683	504	758	559	973	718	1080	797	1139	840	1263	932
M30	—	—	—	—	932	687	1029	759	1327	979	1466	1081	1553	1145	1715	1265
M33	—	—	—	—	1258	928	1398	1031	1788	1319	1986	1465	2092	1543	2324	1714
M36	—	—	—	—	1617	1193	1789	1319	2303	1699	2548	1879	2695	1988	2982	2199

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

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

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

TS1741 —UN—22MAY18

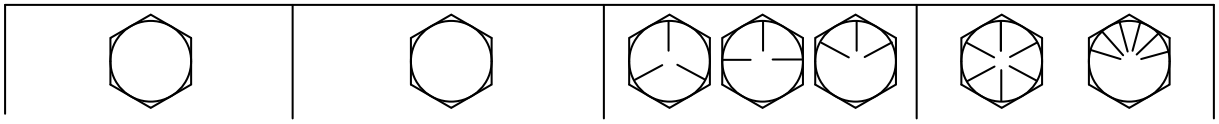


[a]Hex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.
[b]Hex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX,TORQ2 -19-30MAY18-1/1

Unified Inch Bolt and Screw Torque Values

TS1671 —UN—01MAY03



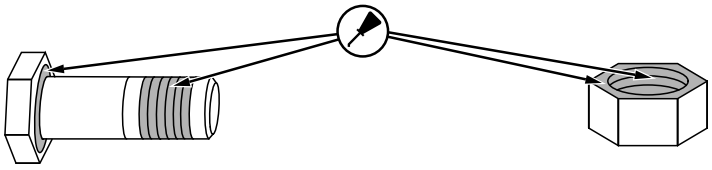
Bolt or Screw Size	SAE Grade 1[a]				SAE Grade 2[b]				SAE Grade 5, 5.1 or 5.2				SAE Grade 8 or 8.2			
	Hex Head[c]		Flange Head[d]		Hex Head[c]		Flange Head[d]		Hex Head[c]		Flange Head[d]		Hex Head[c]		Flange Head[d]	
	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in	N·m	lb·in
1/4	3.1	27.3	3.2	28.4	5.1	45.5	5.3	47.3	7.9	70.2	8.3	73.1	11.2	99.2	11.6	103
													N·m	lb·ft	N·m	lb·ft
5/16	6.1	54.1	6.5	57.7	10.2	90.2	10.9	96.2	15.7	139	16.8	149	22.2	16.4	23.7	17.5
									N·m	lb·ft	N·m	lb·ft				
3/8	10.5	93.6	11.5	102	17.6	156	19.2	170	27.3	20.1	29.7	21.9	38.5	28.4	41.9	30.9
					N·m	lb·ft	N·m	lb·ft								
7/16	16.7	148	18.4	163	27.8	20.5	30.6	22.6	43	31.7	47.3	34.9	60.6	44.7	66.8	49.3
	N·m	lb·ft	N·m	lb·ft												
1/2	25.9	19.1	28.2	20.8	43.1	31.8	47	34.7	66.6	49.1	72.8	53.7	94	69.3	103	75.8
9/16	36.7	27.1	40.5	29.9	61.1	45.1	67.5	49.8	94.6	69.8	104	77	134	98.5	148	109
5/8	51	37.6	55.9	41.2	85	62.7	93.1	68.7	131	96.9	144	106	186	137	203	150
3/4	89.5	66	98	72.3	149	110	164	121	230	170	252	186	325	240	357	263
7/8	144	106	157	116	144	106	157	116	370	273	405	299	522	385	572	422
1	216	159	236	174	216	159	236	174	556	410	609	449	785	579	860	634
1-1/8	305	225	335	247	305	225	335	247	685	505	751	554	1110	819	1218	898
1-1/4	427	315	469	346	427	315	469	346	957	706	1051	775	1552	1145	1703	1256
1-3/8	564	416	618	456	564	416	618	456	1264	932	1386	1022	2050	1512	2248	1658
1-1/2	743	548	815	601	743	548	815	601	1665	1228	1826	1347	2699	1991	2962	2185

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

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

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

TS1741 —UN—22MAY18



[a]Grade 1 applies for hex cap screws over 6 in (152 mm) long, and for all other types of bolts and screws of any length.
[b]Grade 2 applies for hex cap screws (not hex bolts) up to 6 in (152 mm) long.
[c]Hex head column values are valid for ISO 4014 and ISO 4017 hex head, ISO 4162 hex socket head, and ISO 4032 hex nuts.
[d]Hex flange column values are valid for ASME B18.2.3.9M, ISO 4161, or EN 1665 hex flange products.

DX,TORQ1 -19-30MAY18-1/1

EC Declaration of Conformity

Zürn Harvesting GmbH & Co. KG
Eichenstraße 27
D-74747 Ravenstein-Merchingen
Germany

The person named below declares that

The Cutting Platform

Model: 722PF, 725PF, 730PF, 735PF, and 740PF

fulfills all relevant provisions and essential requirements of the following directives:

DIRECTIVE	NUMBER	CERTIFICATION METHOD
Machinery Directive	2006/42/EC	Self-certification, per Article 5 of the Directive
Agricultural Machinery Safety—Part 1	ISO 4254-1	Self-certification
Agricultural Machinery Safety—Part 7	ISO 4254-7	Self-certification
Machinery Safety	DIN EN ISO 12100	Self-certification
Universal-jointed shafts and their protection devices	DIN EN 12965	Self-certification
Agricultural and Forestry Machinery-Electromagnetic Compatibility	ISO 14982	Self-certification

Place of declaration: D-74747 Ravenstein-Merchingen, Germany

Date of declaration: January 1, 2018

Manufacturing unit: Zürn Harvesting GmbH & Co. KG

Rolf Zürn

Title: CEO

DXCE01 —UN—28APR09

CE

OUCC002,00055F1 -19-15NOV17-1/1

Eurasian Economic Union

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

Manufacturer:
Deere & Company, Moline, Illinois U.S.A.

Name of the authorized representative in the Eurasian Economic Union:
Limited Liability Company
“John Deere Rus”

Address of the authorized representative:
142050, Russia, Moscow region, Domodedovo district, Domodedovo, Beliye Stolbi micro district, vladenye “Warehouse 104”, Building 2

For technical support, contact your dealer.

EAC Marking

Date of manufacture is denoted by the product marking on or near the serial number plate.

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John Deere Service Keeps You On the Job

John Deere Parts

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.

TS100 —UN—23AUG88

DX,IBC,A -19-04JUN90-1/1

The Right Tools

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

TS101 —UN—23AUG88

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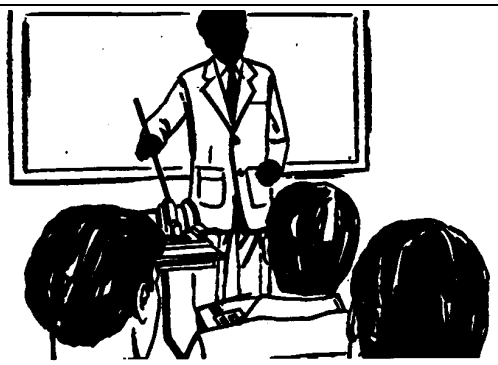
Well-Trained Technicians

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!



TS102 —UN—23AUG88

DX,IBC,C -19-04JUN90-1/1

Prompt Service

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.

TS103 —UN—23AUG88

DX,IBC,D -19-04JUN90-1/1