

110, 132, 154 In. Three-Roller Belt Pickups and 914 P Pickup Platforms (Serial No. 695101-)



JOHN DEERE

OPERATORS MANUAL

**110, 132, 154 In. Three-Roller Belt Pickups and 914
P Pickup Platforms (Serial No. 695101-)**

OMH202757 Issue F1 English

**John Deere Harvester Works
OMH202757 Issue F1**

**LITHO IN U.S.A.
ENGLISH**



Introduction

Foreword



914 P

H59140 -JUN-30JUL99

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

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

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

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

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification section. Accurately record all the numbers to help in tracing the machine should it

be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

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

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

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

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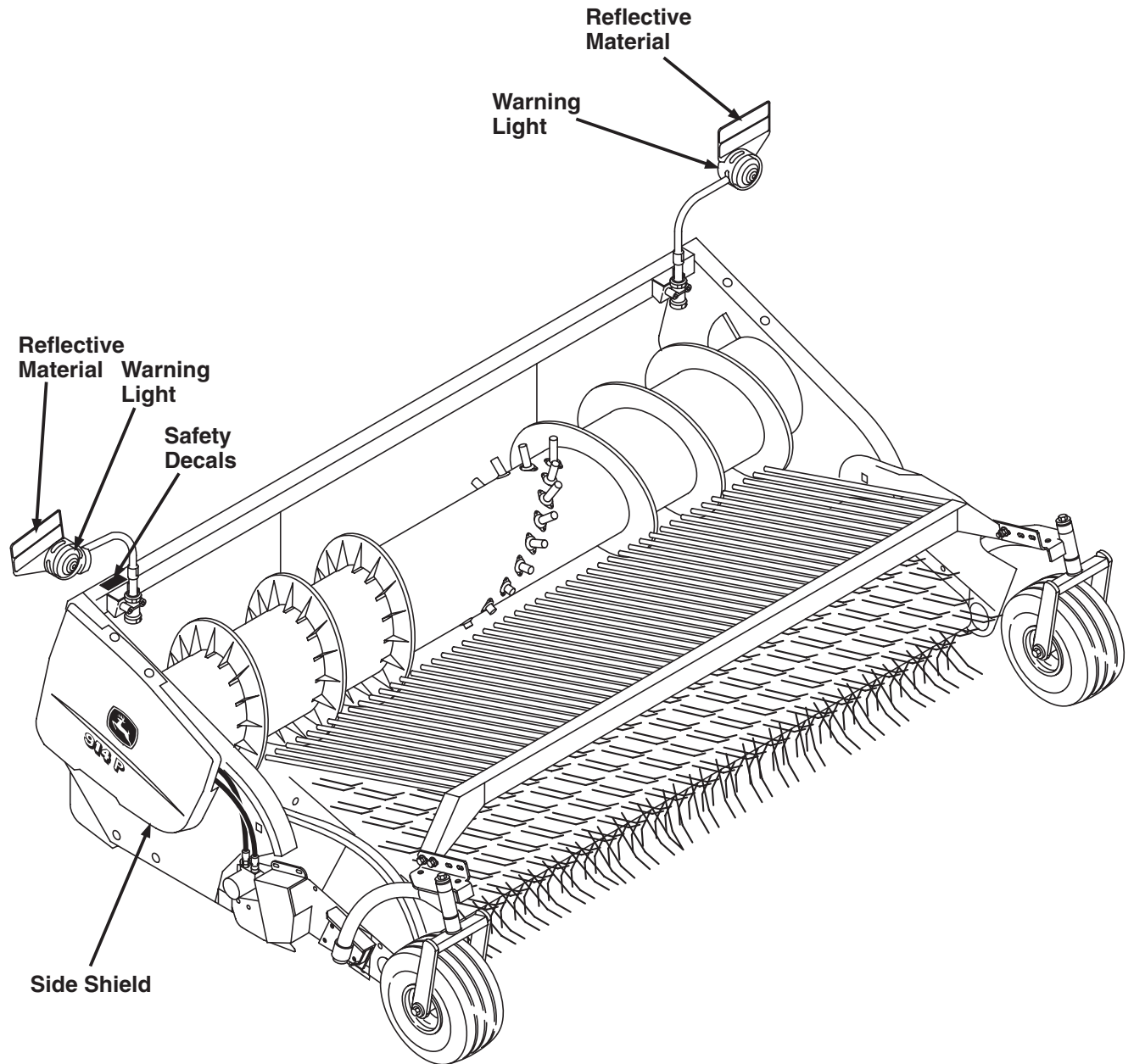
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Belt Pickup Safety Features

Belt Pickup Safety Features



In addition to the safety features show here, safety sign on the belt pickup, and the safety messages and instruction in the operator's manual contribute to the

safe operation of this belt pickup when combined with the care and concern of a capable operator.

H67890 -19-17MAY01

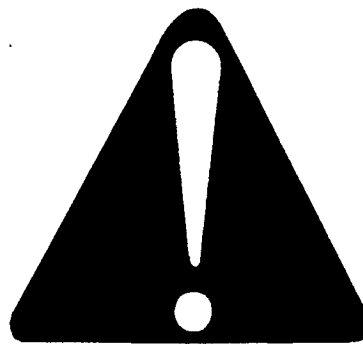
OUO6035,0001419 -19-09MAY01-1/1

Safety

Recognize Safety Information

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

Follow recommended precautions and safe operating practices.



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

T81389 -UN-07DEC88

Understand Signal Words

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



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

TS187 -19-30SEP88

Follow Safety Instructions

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

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

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

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



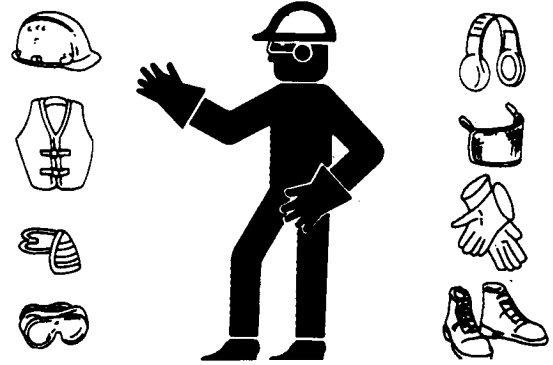
DX,READ -19-03MAR93-1/1

TS201 -UN-23AUG88

Wear Protective Clothing

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

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



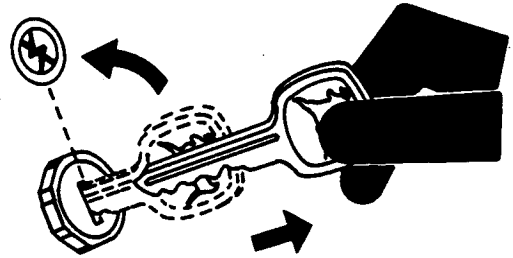
TS206 -UN-23AUG88

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

Park Machine Safely

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



TS230 -UN-24MAY89

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

Protect Against Noise

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.



TS207 -UN-23AUG88

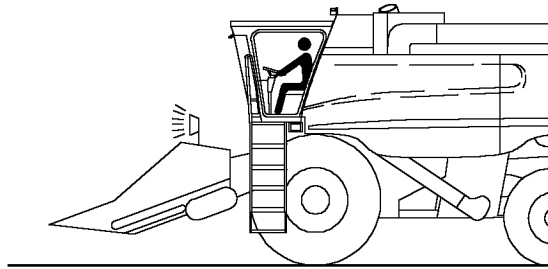
DX,NOISE -19-03MAR93-1/1

Transporting Safely

Whenever possible tow the header on a suitable header trailer or haul on a truck.

If the combine must be transported with the header attached:

- Make sure the flashing warning lights on the header are operating and the reflective material is clean and visible.
- The use of a spotter or pilot vehicle is recommended on busy, narrow or hilly roads and when crossing bridges.
- Drive at a speed that is safe for conditions.



H51909 -UN-07MAY99

900CP,SA,G -19-24JAN91-1/1

Service Tires Safely

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

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

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

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

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



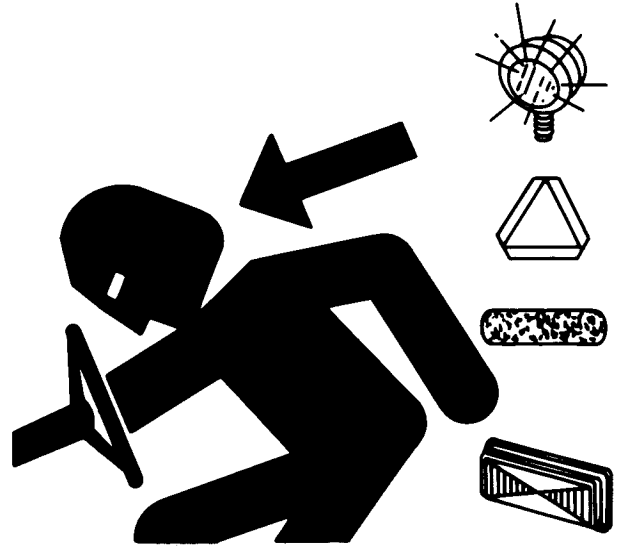
TS952 -UN-12APR90

DX,TIRECP -19-24AUG90-1/1

Use Safety Lights and Devices

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

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible, clean, and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your John Deere dealer.



TS951 -UN-12APR90

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

Remove Paint Before Welding or Heating

Avoid potentially toxic fumes and dust.

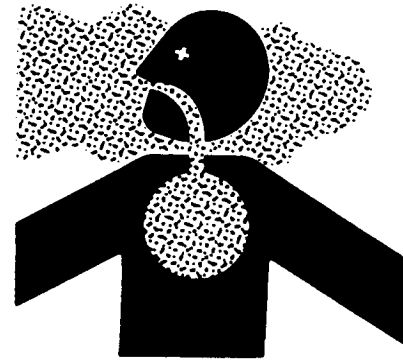
Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Remove paint before heating:

- Remove paint a minimum of 76 mm (3 in.) from area to be affected by heating.
- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

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

Dispose of paint and solvent properly.



TS220 -UN-23AUG88

DX,PAINT -19-22OCT99-1/1

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 be accidentally cut when heat goes beyond the immediate flame area.



TS953 -UN-15MAY90

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

Avoid Contact with Moving Parts

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



TS256 -UN-23AUG88

900CP,SA,E -19-24JAN91-1/1

Protect Against High Pressure Spray

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

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

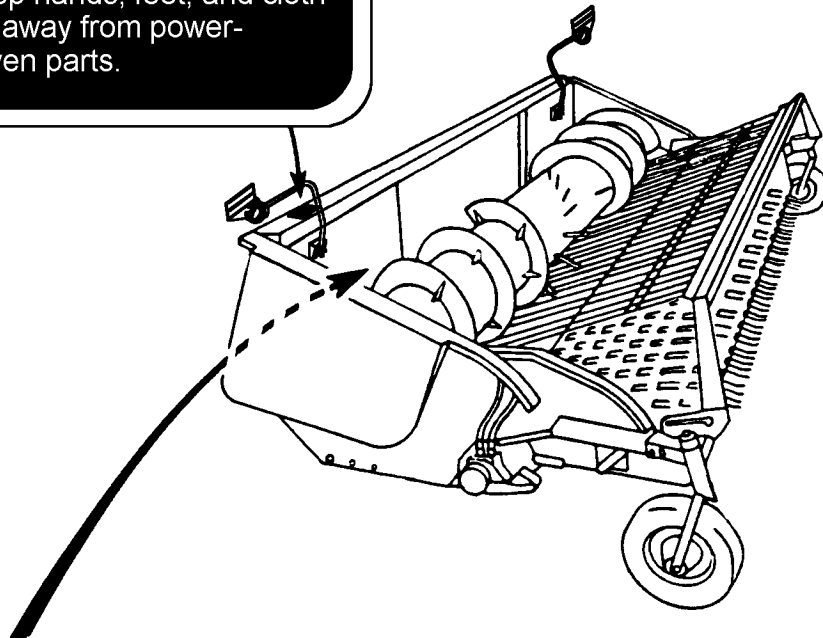


TS1343 -UN-18MAR92

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

Safety Sign Location

Safety Sign Location



Attaching and Detaching

Check Auger Stripper Location

The auger strippers (A) are positioned in different locations depending on the combine size the belt pickup will be used on.

(4420, 4425, 4435 and 6620 Combines) Install stripper with bottom hole of stripper on stripper support bolt (B).

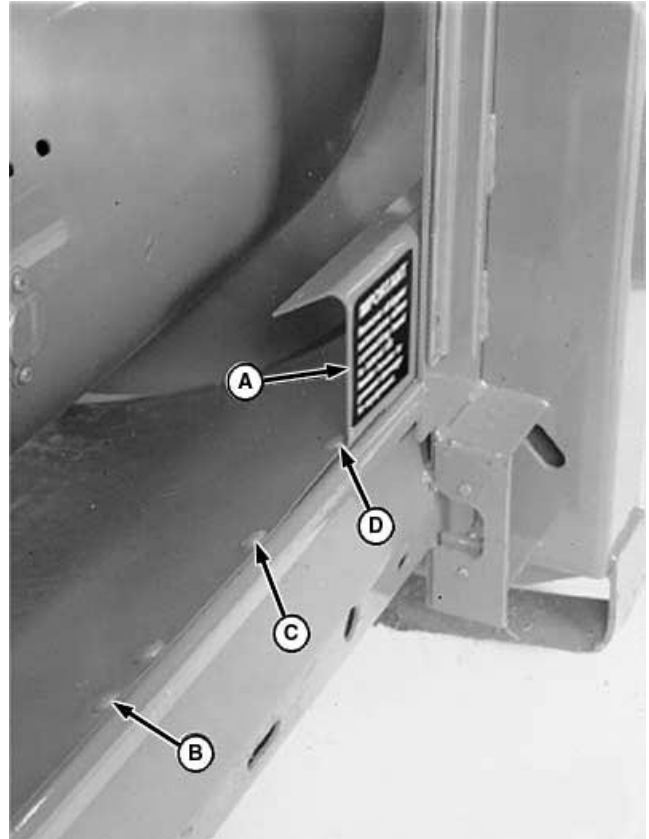
(9400, 9410, 9450, 9500, 9510, 9550, 9650 STS, 9750 STS, Sidehill 9500, 9510, 9550, CTS, CTS II, 9650 CTS and 7720 Combines) Install stripper with bottom hole of stripper on stripper support bolt (C).

(9600, 9610, 9650 and 8820 Combines) Install stripper with bottom hole of stripper on stripper support bolt (D).

IMPORTANT: If attaching belt pickup to 1990 or older model combine, strippers on the front of the combine feeder house must be removed before attaching combine to belt pickup.

If attaching belt pickup to 4420, 4425 or 4435 combine, remove the stripper extensions from the belt pickup.

If combine is equipped with lateral tilt remove stripper extensions.



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

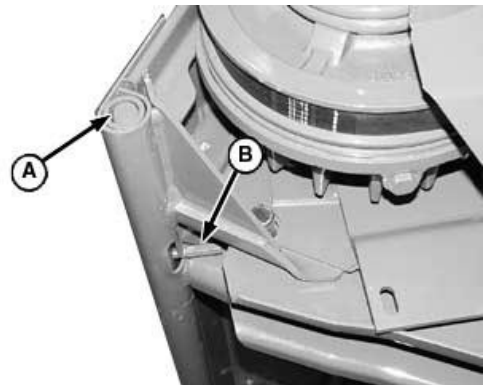
H56939 -UN-16JUL99

AG,OUO6435,41 -19-09JUN99-1/1

Attaching Belt Pickup To 50 Series Combine

IMPORTANT: Lock pin (A) (both sides) must be positioned in before attaching header. Position pin by sliding stop bolt (B) in and then pivoting it up. If pins are left in the out position, feeder house will be damaged when header is attached.

A—Lock Pins
B—Pivot Blocks



H56942 -UN-19JUL99

Continued on next page

AG,OUO6435,109 -19-14JUN99-1/6

Sound horn, start engine, and lower feeder house.

Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Set parking brake, shut off engine and remove key.

Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop

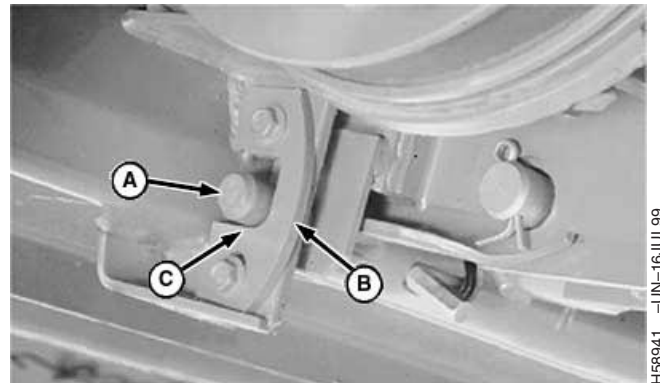


AG,OUO6435,109 -19-14JUN99-2/6

IMPORTANT: Header may detach from combine if latch plate is not in place.

(Both Sides) Pivot stop handle down to let lock pin (A) lock into header. The lock pin must extend thru latch plate (B), if not; turn plate over. The latch pin must contact surface (C). Tolerances may require that latch plates be installed differently on left- and right-hand sides.

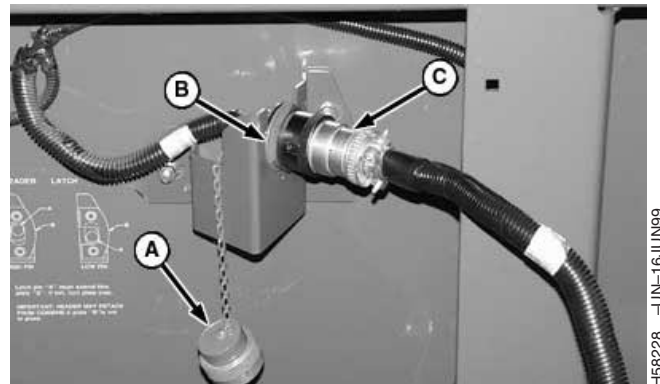
A—Lock Pin
B—Latch Plate
C—Contact Surface



AG,OUO6435,109 -19-14JUN99-3/6

Remove dust cover (A) and connect combine harness (C) to header harness (B).

A—Dust Cover
B—Header Harness
C—Combine Harness



Continued on next page

AG,OUO6435,109 -19-14JUN99-4/6

Remove right-hand feeder house shield.

Remove cap screws (A) from cable (E) and driveshaft (B).

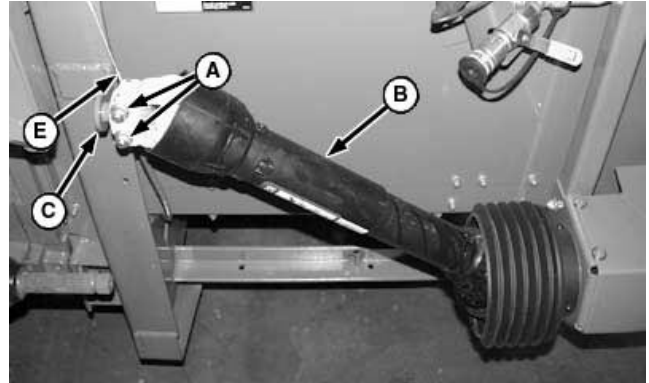
Remove driveshaft (B) from storage pin (C).

Install drive shaft (B) onto feeder house drive shaft and retain with bolts (D), tighten to specification.

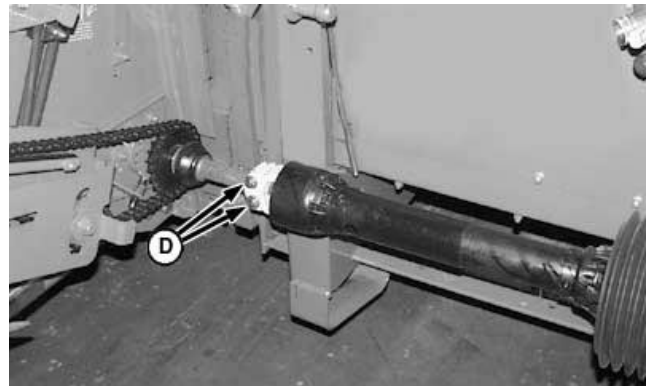
Specification

Cap Screw (D)—Torque..... 130 N•m
(95 lb-ft)

- A—Cap screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable



H58227 -UN-15JUL99



H58225 -UN-02AUG99

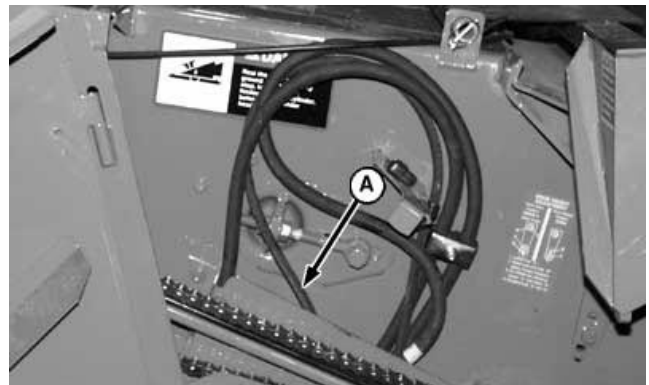
AG,OUO6435,109 -19-14JUN99-5/6

Remove dust caps from hydraulic valves and connect together.

Remove hydraulic hoses (A) from storage and disconnect.

Connect hydraulic hoses (A) to hydraulic valves (B) and open valves.

- A—Hydraulic Hoses
- B—Hydraulic Valves



H58229 -UN-16JUN99



H58230 -UN-16JUN99

AG,OUO6435,109 -19-14JUN99-6/6

Detaching Belt Pickup From 50 Series Combines

Sound horn, start engine, and raise header all the way up. Set parking brake, shut off engine and remove key.

Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop



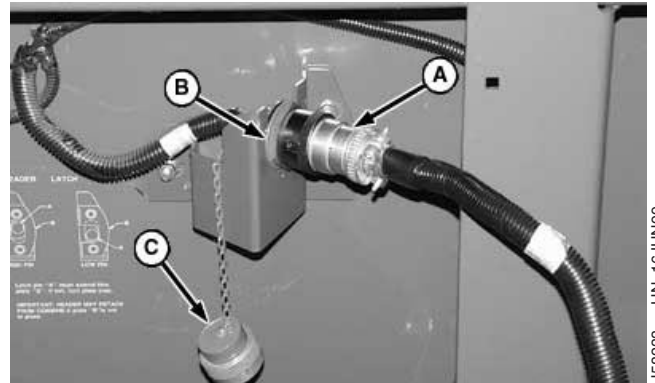
H58943 -UN-19JUL99

AG,OUO6435,110 -19-14JUN99-1/5

Remove combine harness (A) from header harness (B).

Install dust cap (C) on header harness (B).

A—Combine Harness
B—Header Harness
C—Dust Cap



H58233 -UN-16JUN99

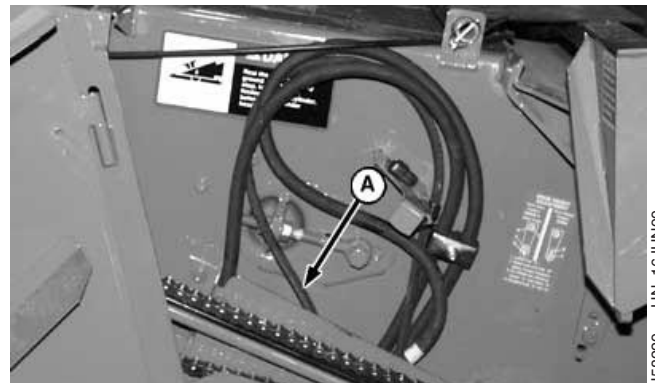
AG,OUO6435,110 -19-14JUN99-2/5

Shut valves and disconnect hydraulic hoses.

Connect hydraulic hoses (A) together and insert hoses in storage position behind right-side feeder house shield.

IMPORTANT: Hoses must be connected together when disconnecting a header. Connect combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged by overheating from constant operation of relief valve. Store hoses as shown to prevent damage.

Disconnect dust caps and install into hydraulic valves.



H58229 -UN-16JUN99

A—Hydraulic Hoses

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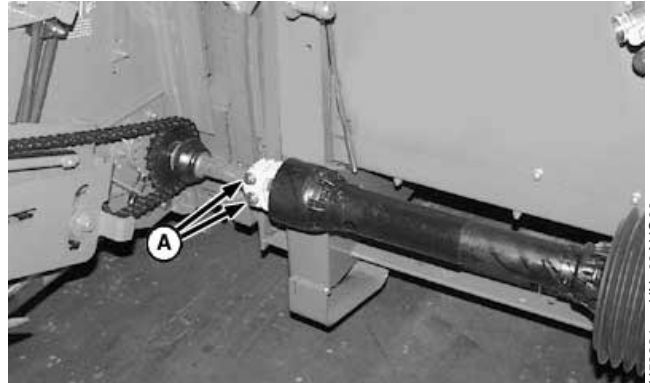
AG,OUO6435,110 -19-14JUN99-3/5

NOTE: Storage cable (E) must be between yoke and nut.

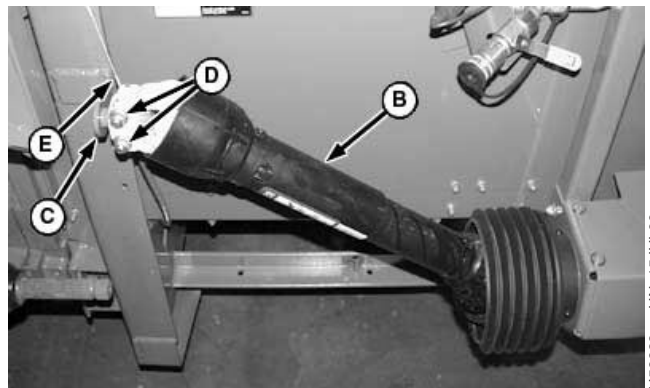
Remove cap screws (A) and drive shaft (B) from feeder house.

Install driveshaft (B) onto storage pin (C) and retain with cap screws (D).

- A—Cap Screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable



H58231 -UN-02AUG99



H58232 -UN-15JUL99

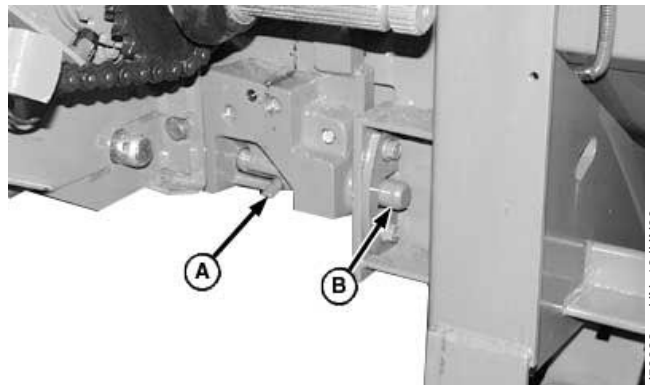
AG,OUO6435,110 -19-14JUN99-4/5

(Both Sides) Push locking pin handle (A) in and up so locking pin (B) will retract from latch plate.

Start engine and lower feeder house until platform is on ground and pivot blocks are free.

Drive combine slowly rearward until feeder house is clear of platform.

- A—Stop Bolt
- B—Lock Pin



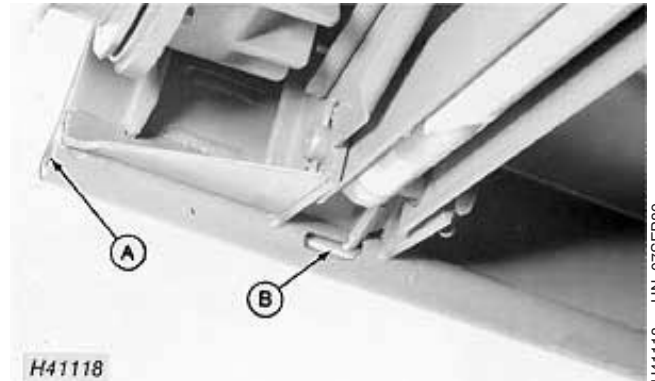
H58238 -UN-18JUN99

AG,OUO6435,110 -19-14JUN99-5/5

Attaching Belt Pickup To 9400, 9500 And 9600 Combines

IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by stop handle (B) in and up. If pins are left in the out position, feeder house will be damaged when header is attached.

A—Lock Pin
B—Stop Handle



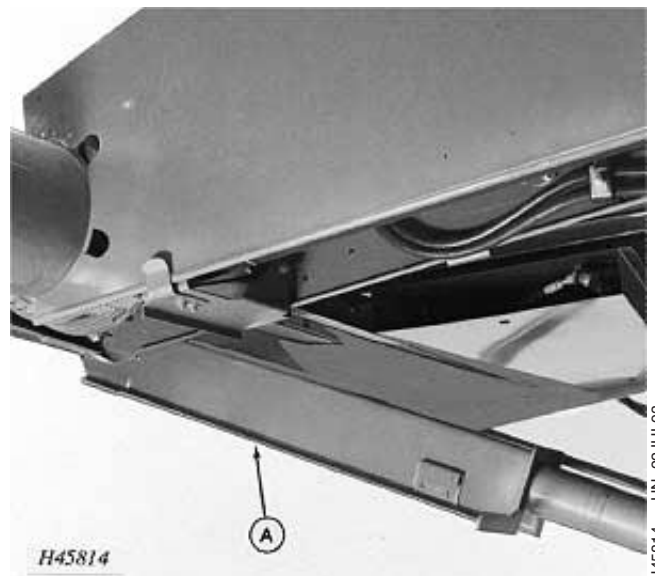
AG,OUO6435,48 -19-10JUN99-1/4

Sound horn, start engine, and lower feeder house.

Drive slowly forward until feeder house is centered in header opening. Raise feeder house, lifting header all the way up. Set parking brake, shut off engine and remove key.

Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop



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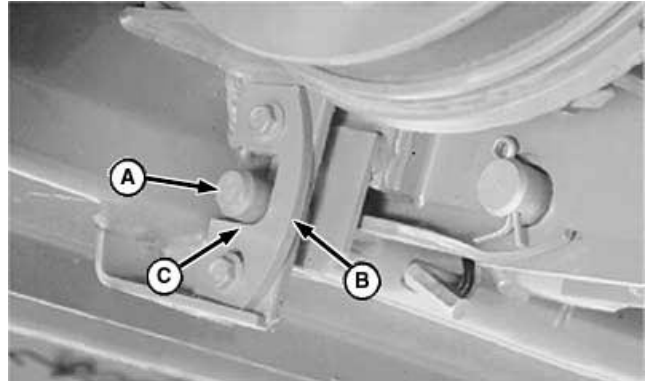
AG,OUO6435,48 -19-10JUN99-2/4

IMPORTANT: Header may detach from combine if latch plate is not in place.

Pivot stop handle down to let lock pin (A) lock into header. The lock pin must extend thru latch plate (B), if not; turn plate over. The latch pin must contact surface (C). Tolerances may require that latch plates be installed differently on left- and right-hand sides.

Connect wiring harness.

- A—Lock Pin
- B—Latch Plate
- C—Contact Surface



H58941 -UN-16JUL99

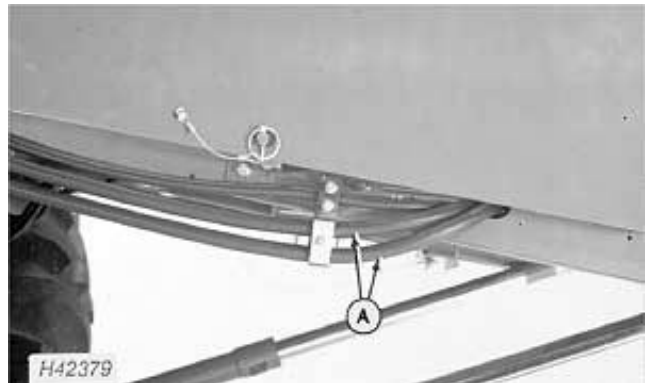
AG,OUO6435,48 -19-10JUN99-3/4

Remove hydraulic hoses (A) from storage position on right-hand side of feeder house. Connect the hoses to hose connectors from belt pickup motor.

(Right Side Only) Place chain around sprocket and slide coupler over sprocket and chain.

Sound horn, start engine, and operate feeder house speed controls to close bottom variable sheaves. Set parking brake, shut off engine and remove key.

- A—Hydraulic Hoses



H42379 -UN-18SEP90

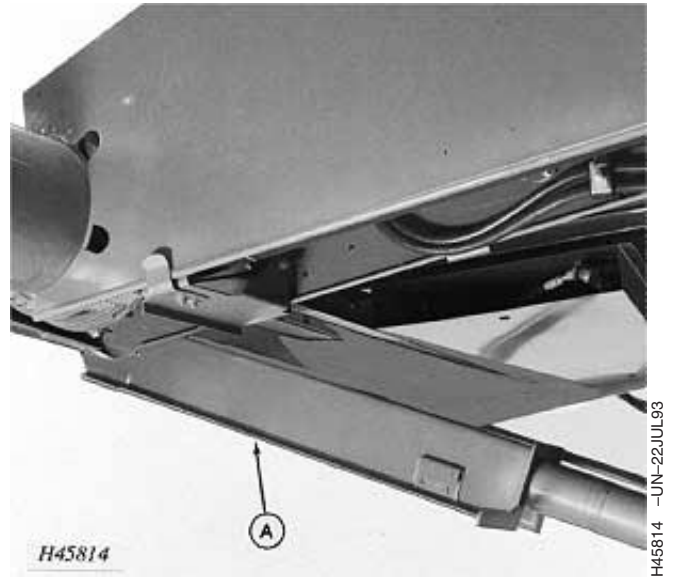
AG,OUO6435,48 -19-10JUN99-4/4

Detaching Belt Pickup From 9400, 9500 And 9600 Combines

Sound horn, start engine and raise header all the way up.
Set parking brake, shut off engine and remove key.

Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop



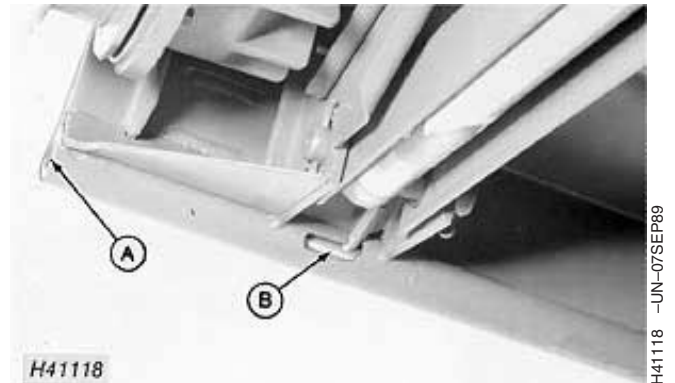
AG.OUO6435,49 -19-10JUN99-1/3

Slide right-hand coupler off sprockets and chain and
unwrap chain.

Disconnect wiring harness.

(Both Sides) Slide and pivot stop pin (B) in and up so lock
pin (A) will unlock from platform.

A—Locking Pin
B—Stop Pin

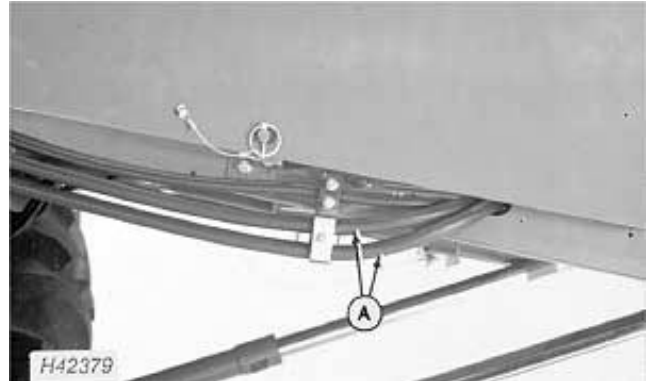


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AG.OUO6435,49 -19-10JUN99-2/3

Disconnect hydraulic hoses (A) from hose connectors from belt pickup motor. Connect hydraulic hoses together and insert hoses in storage position on right-hand side of feeder house.

IMPORTANT: Hoses must be connected together when disconnecting a header. Connect combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged by overheating from constant operation of relief valve. Store hoses as shown to prevent damage.



H42379 -UN-18SEP90

A—Hydraulic Hoses

Sound horn, start engine and lower feeder house until platform is on ground and pivot blocks are free.

Drive slowly rearward until feeder house is clear of platform. Set parking brake, shut off engine and remove key.

AG,OUO6435,49 -19-10JUN99-3/3

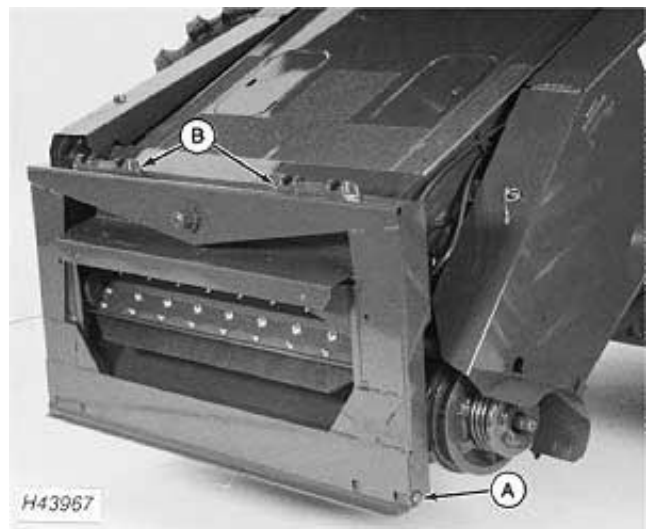
Attaching Belt Pickup To Sidehill 9500 Combine

IMPORTANT: Lock pin (A) must be positioned "in" before attaching header. If pins are left in the "out" position, feeder house will be damaged when header is attached.

Sound horn, start engine, lower feeder house and move variable speed feeder house lever to the slowest speed.

Drive combine slowly forward until feeder house is centered in platform opening. Raise feeder house, set parking brake, shut off engine and remove key. Pivot blocks (B) on feeder house must be seated in pockets under top beam of platform.

A—Lock Pin
B—Pivot Blocks



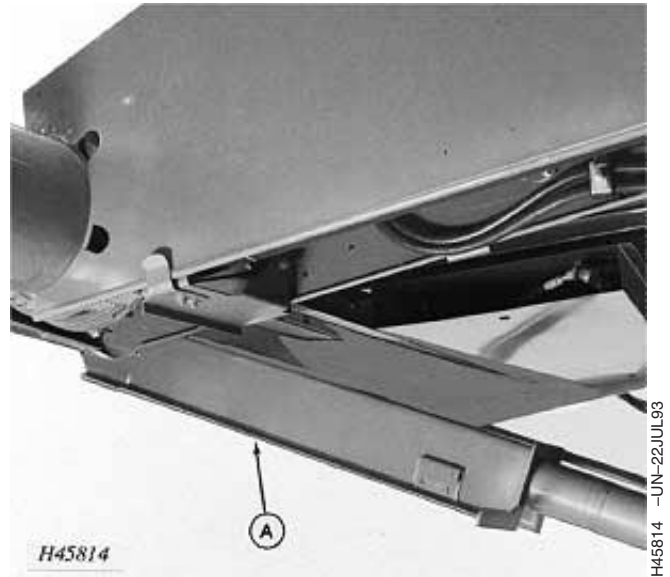
H43967 -UN-25OCT91

Continued on next page

AG,OUO6435,50 -19-10JUN99-1/5

Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop



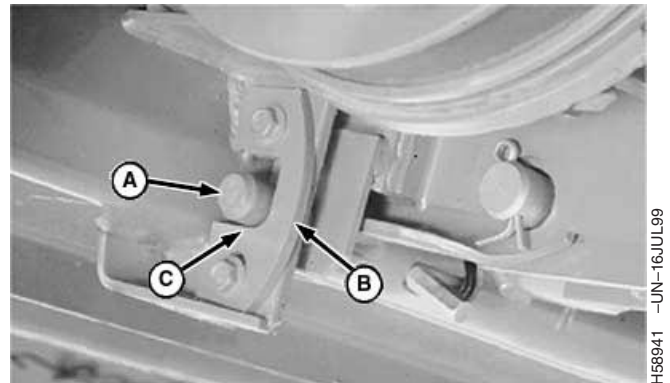
AG,OUO6435,50 -19-10JUN99-2/5

IMPORTANT: Header may detach from combine if latch plate is not in place.

Pivot stop handle down to let lock pin (A) lock into header. The lock pin must extend thru latch plate (B), if not; turn plate over. The latch pin must contact surface (C). Tolerances may require that latch plates be installed differently on left- and right-hand sides.

Connect wiring harness.

A—Lock Pin
B—Latch Plate
C—Contact Surface



Continued on next page

AG,OUO6435,50 -19-10JUN99-3/5

Remove right-hand feeder house shield.

Remove cap screws (A) from cable (E) and driveshaft (B).

Remove driveshaft (B) from storage pin (C).

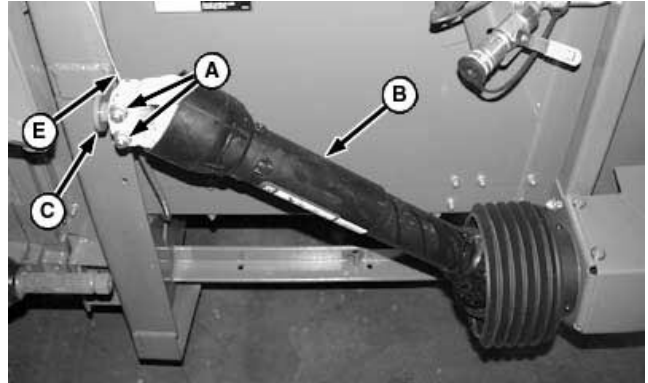
Install drive shaft (B) onto feeder house drive shaft and retain with bolts (D), tighten to specification.

Specification

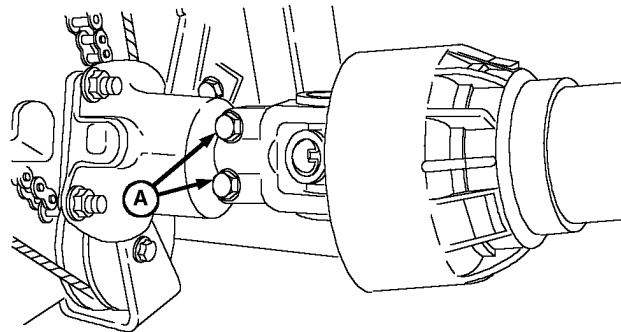
Cap Screw (D)—Torque..... 130 N•m
(95 lb-ft)

Reinstall right-hand side feeder house shield.

- A—Cap screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable



H58227 -UN-15JUL99

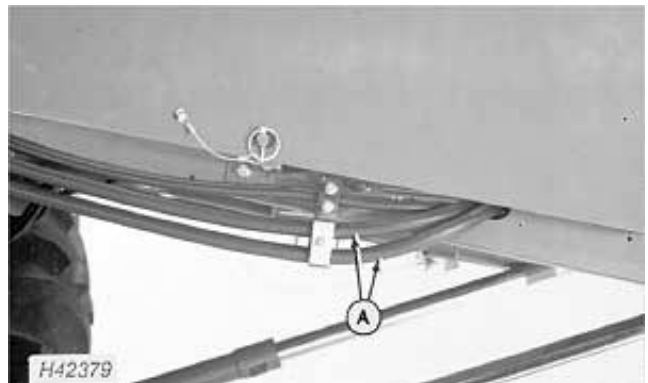


H58917 -UN-16JUL99

AG,OUO6435,50 -19-10JUN99-4/5

Remove hydraulic hoses (A) from storage position on right-hand side of feeder house. Connect the hoses to hose connectors from belt pickup motor.

- A—Hydraulic Hoses



H42379 -UN-18SEP90

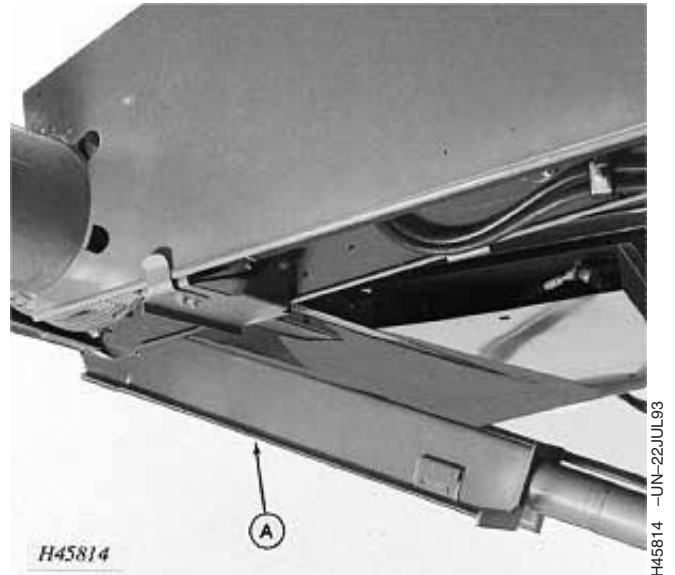
AG,OUO6435,50 -19-10JUN99-5/5

Detaching Belt Pickup From Sidehill 9500 Combine

Sound horn, start engine and raise header all the way up. Set parking brake, shut off engine and remove key.

Lower safety stop (A) onto hydraulic cylinder rod.

A—Safety Stop

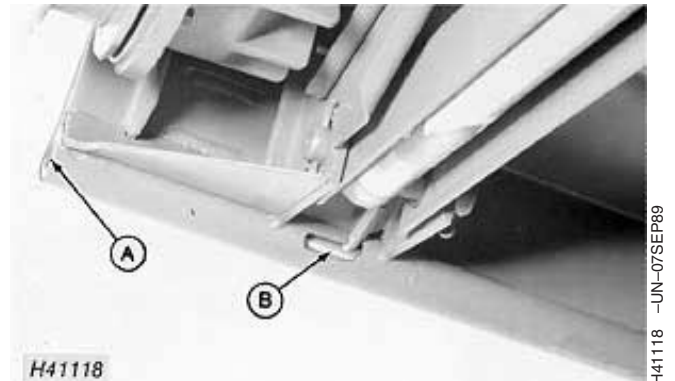


AG,OUO6435,124 -19-19JUL99-1/4

(Both Sides) Slide and pivot stop pin (B) in and up so lock pin (A) will unlock from platform.

A—Locking Pin

B—Stop Pin



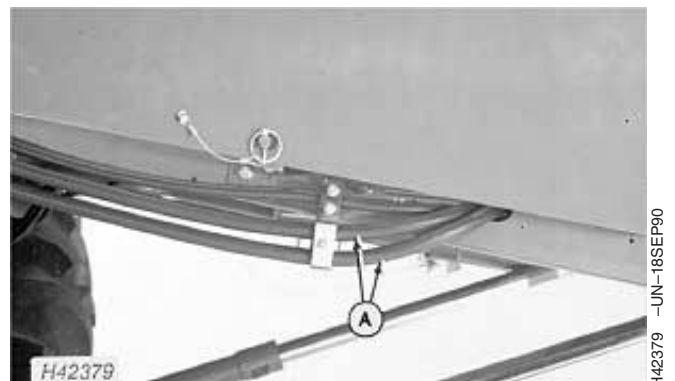
AG,OUO6435,124 -19-19JUL99-2/4

Shut valves and disconnect hydraulic hoses (A).

Connect hydraulic hoses together and insert hoses in storage position on right side of feeder house.

IMPORTANT: Hoses must be connected together when disconnecting a header. Connect combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged by overheating from constant operation of relief valve. Store hoses as shown to prevent damage.

Insert dust caps into valves.



A—Hydraulic Hoses

Continued on next page

AG,OUO6435,124 -19-19JUL99-3/4

NOTE: Storage cable (E) must be between yoke and nut.

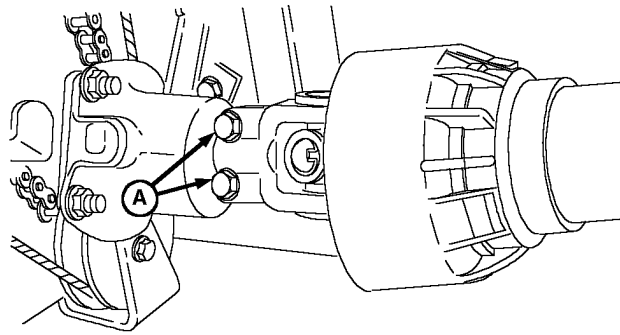
Remove cap screws (A) and drive shaft (B) from feeder house.

Install driveshaft (B) onto storage pin (C) and retain with cap screws (D), and cable (E).

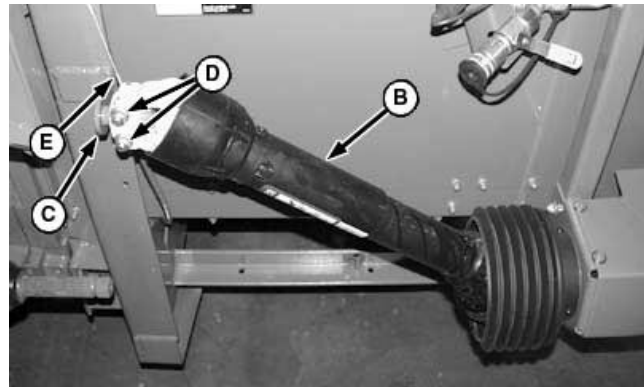
Start engine and lower feeder house until platform is on the ground and pivot blocks are free.

Drive combine rearward slowly until feeder house is clear of platform.

- A—Cap Screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable



H58917 -UN-16JUL99



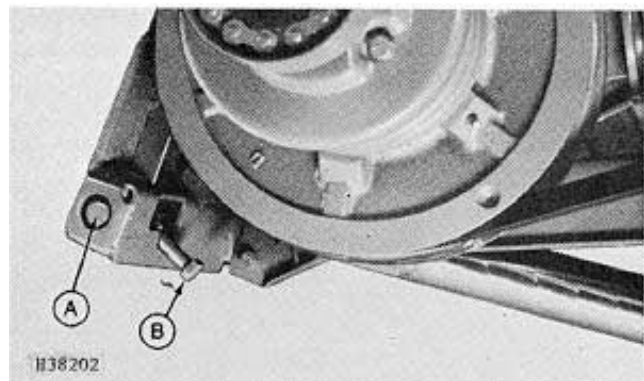
H58232 -UN-15JUL99

AG,OUO6435,124 -19-19JUL99-4/4

Attaching Belt Pickup To 6620, 7720, 7721 And 8820 Combines (600001-)

IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by sliding stop bolt (B) in and down. If pins are left in the out position, feeder house will be damaged when header is attached.

- A—Lock Pin
- B—Stop Bolt



H38202 -UN-28NOV89

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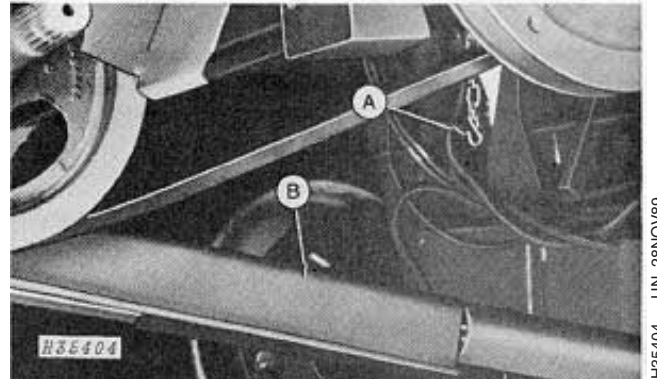
AG,OUO6435,46 -19-09JUN99-1/5

Sound horn, start engine, and lower feeder house.

Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Set parking brake, shut off engine and remove key.

Disconnect chain (A) and lower safety stop (B) on cylinder.

A—Chain
B—Safety Stop



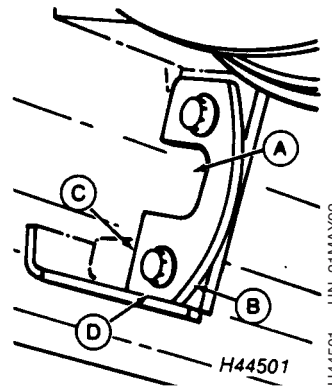
H35404 -UN-28NOV89

AG,OUO6435,46 -19-09JUN99-2/5

IMPORTANT: Header may detach from combine if latch plate is not in place.

Slide lock pin under feeder house into hole (A) on header (both sides). Lock pin must extend through latch plate (B). Install latch plate with wide side (C) below pin whenever possible. Latch plate must contact surface (D). Tolerances may require that latch plates be installed differently on left- and right-hand sides.

(Right Side Only) Place chain around sprocket and slide coupler over sprocket and chain.



H44501 -UN-21MAY92

A—Lock Pin Hole
B—Latch Plate
C—Latch Plate
D—Contact Surface

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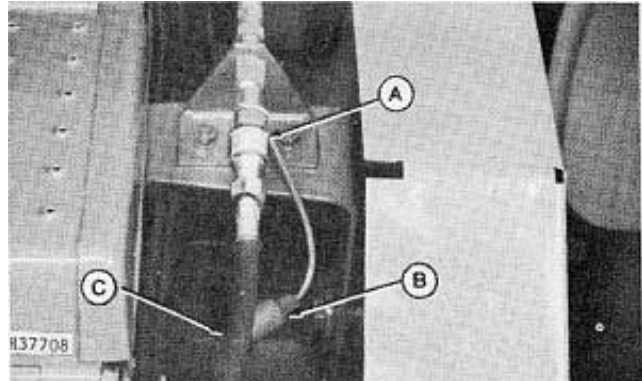
AG,OUO6435,46 -19-09JUN99-3/5

Connect wiring harness.

Reel lift hose must be connected to connector on bracket for use of variable feeder house drive. When hose is disconnected from fitting use cap (B) and plug (C) to cover open hose ends.

Sound horn, start engine, and move feeder house speed lever to close bottom variable sheaves. Set parking brake, shut off engine and remove key.

- A—Reel Lift Hydraulic Hose
- B—Dust Cap
- C—Dust Cap

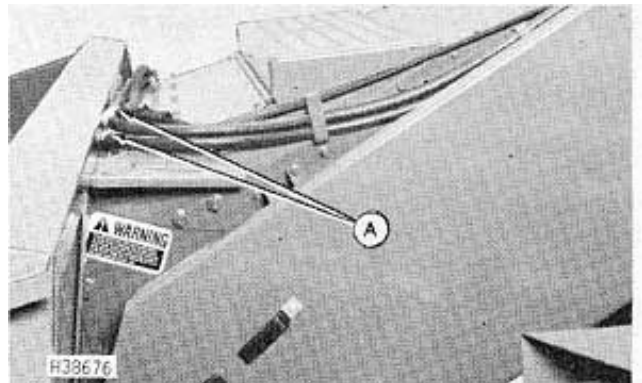


H37708 -UN-28NOV89

AG,OUO6435,46 -19-09JUN99-4/5

Fasten two hoses to hose connectors (A) from belt pickup motor. Lay hoses across feeder house as shown.

- A—Hydraulic Hose Connectors



H38676 -UN-02FEB90

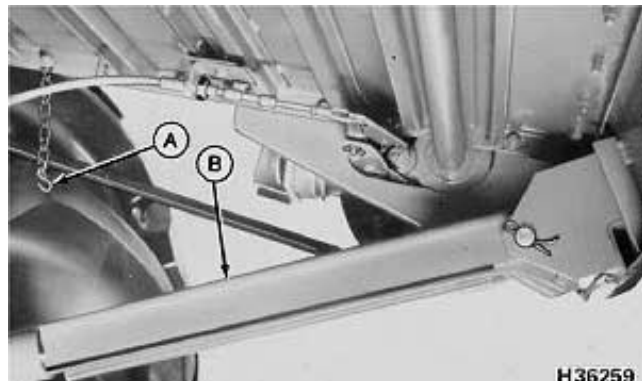
AG,OUO6435,46 -19-09JUN99-5/5

Detaching Belt Pickup From 6620, 7720, 7721 And 8820 Combines (600001-)

Sound horn, start engine, and raise platform all the way up. Set parking brake, shut off engine and remove key.

Disconnect chain (A) and lower safety stop (B) on cylinder.

- A—Chain
- B—Safety Stop



H36259 -UN-18OCT88

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AG,OUO6435,47 -19-09JUN99-1/5

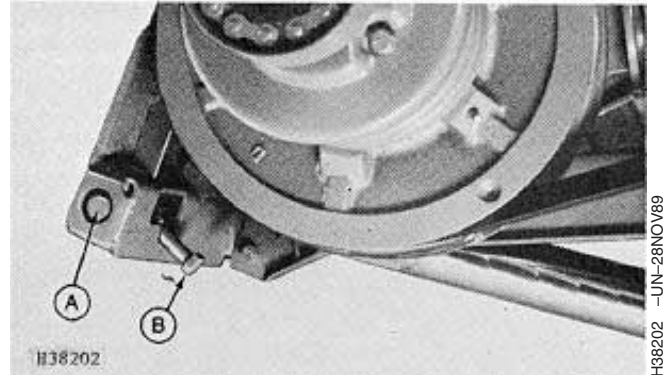
Attaching and Detaching

Slide right-hand coupler off sprockets and chain and unwrap chain.

Disconnect wiring harness.

(Both sides) Slide and pivot stop bolt (B) down, to let lock pin (A) unlock platform.

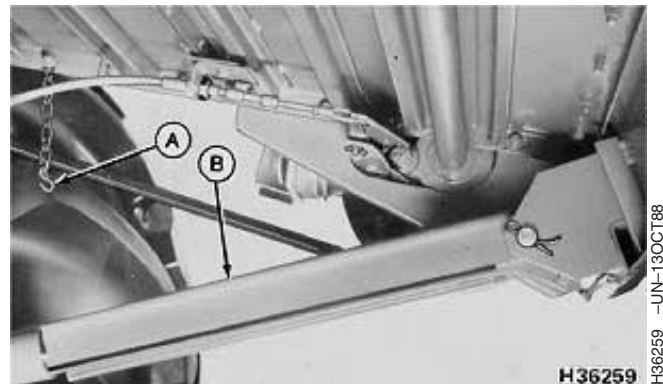
A—Lock Pin
B—Stop Bolt



AG,OUO6435,47 -19-09JUN99-2/5

Raise safety stop (B) and fasten with chain (A).

A—Chain
B—Safety Stop

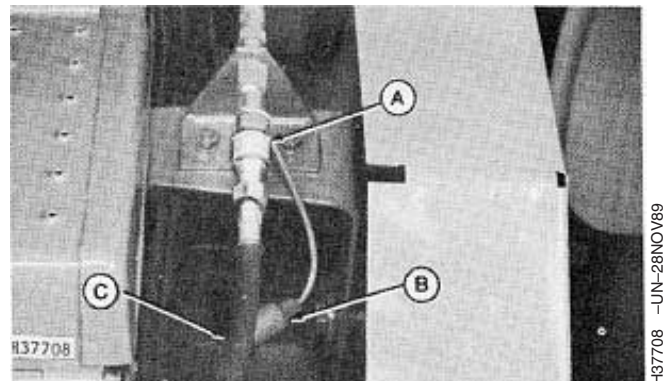


AG,OUO6435,47 -19-09JUN99-3/5

Reel lift hose must be connected to connector on bracket for use of variable feeder house drive. When hose is disconnected from fitting use cap (B) and plug (C) to cover open hose ends.

Disconnect both hoses.

A—Reel Lift Hydraulic Hose
B—Dust Cap
C—Dust Cap



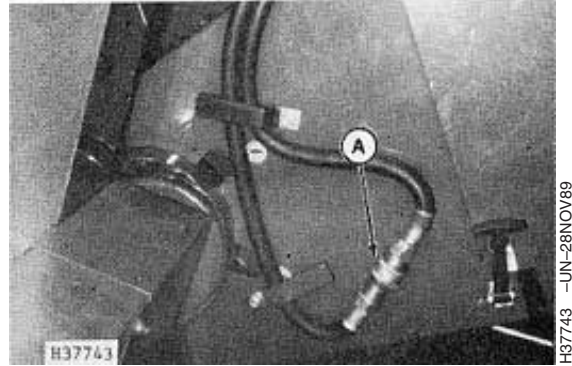
Continued on next page

AG,OUO6435,47 -19-09JUN99-4/5

IMPORTANT: Hoses must be connected together when disconnecting header. Connect combine pressure hose to return hose as shown (A). If connection is not made, hydraulic system can be damaged by overheating from constant operation of relief valve.

Sound horn, start engine, and lower feeder house until platform is on ground and pivot blocks are free.

Drive slowly rearward until feeder house is clear of platform. Set parking brake, shut off engine and remove key.



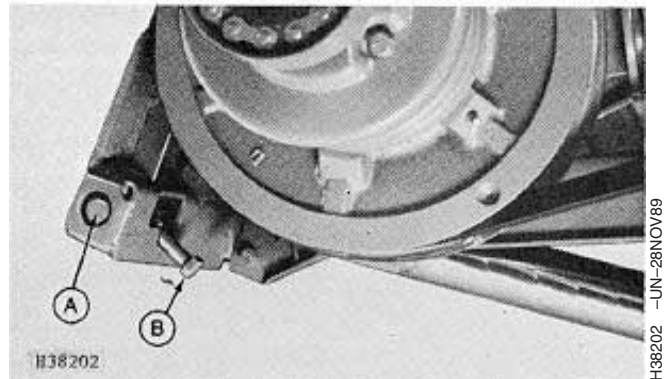
A—Pressure To Return Hose Connection

AG,OUO6435,47 -19-09JUN99-5/5

Attaching Belt Pickup To Sidehill 6620 Combine (600001-610000)

IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by sliding stop bolt (B) in and down. If pins are left in the out position, feeder house will be damaged when header is attached.

A—Lock Pin
B—Stop Bolt

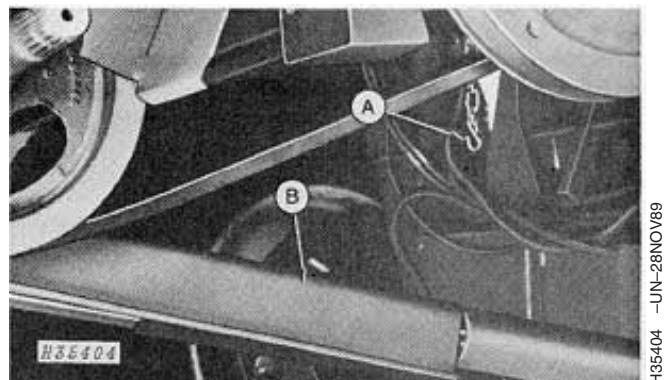


AG,OUO6435,52 -19-10JUN99-1/6

Sound horn, start engine and lower feeder house.

Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Set parking brake, shut off engine and remove key.

A—Chain
B—Safety Stop



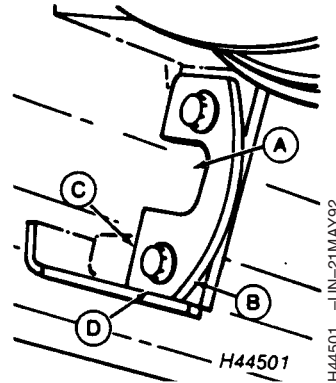
Continued on next page

AG,OUO6435,52 -19-10JUN99-2/6

IMPORTANT: Header may detach from combine if latch plate is not in place.

Slide lock pin under feeder house into hole (A) on platform (both sides). Lock pin must extend through latch plate (B). Install latch plate with wide side (C) below pin whenever possible. Latch plate must contact surface (D). Tolerances may require that latch plates be installed differently on left- and right-hand sides.

- A—Lock Pin Hole
- B—Latch Plate
- C—Latch Plate
- D—Contact Surface



AG.OUO6435,52 -19-10JUN99-3/6

Remove right-hand feeder house shield.

Remove cap screws (A) from cable (E) and driveshaft (B).

Remove driveshaft¹ (B) from storage pin (C).

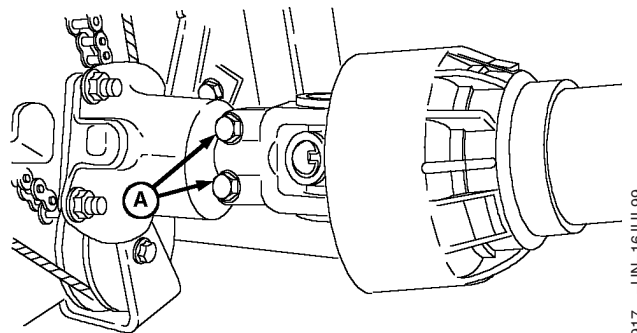
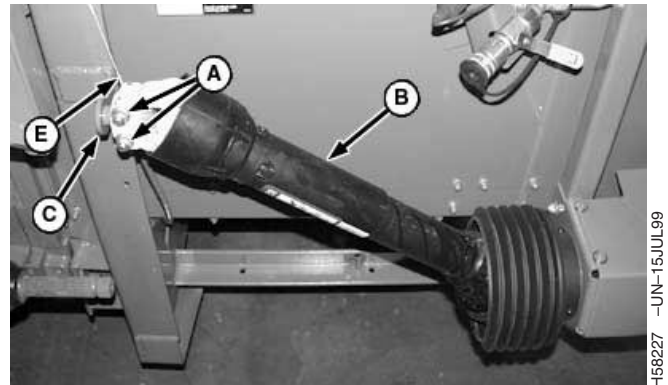
Install drive shaft (B) onto feeder house drive shaft and retain with bolts (D), tighten to specification.

Specification

Cap Screw (D)—Torque..... 130 N•m
(95 lb-ft)

Connect wiring harness.

- A—Cap screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable



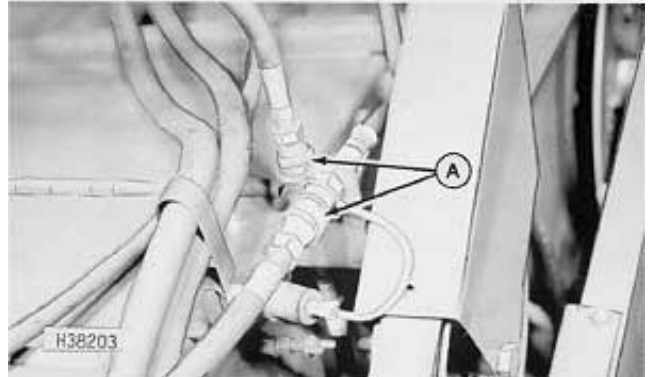
¹Requires AH119746 Drive Shaft, for 6600 and 6620 Sidehill Combines.

Continued on next page

AG.OUO6435,52 -19-10JUN99-4/6

Connect both variable feeder house hoses at couplers (A) on left side of feeder house.

A—Variable Hydraulic Hose Couplers



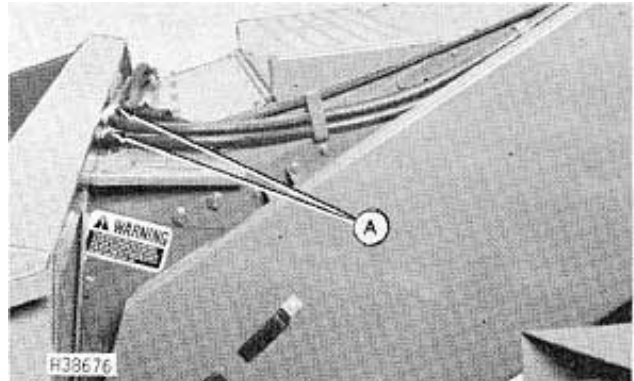
H38203 -UN-13OCT88

AG,OUO6435,52 -19-10JUN99-5/6

Fasten two hoses to connectors at (A) from belt pickup motor. Lay hoses across feeder house.

Sound horn, start engine and move feeder house speed lever rearward to close bottom variable sheaves. Minimum speed on digital tach. Set parking brake, shut off engine and remove key.

A—Hydraulic Hose Connector



H38676 -UN-02FEB90

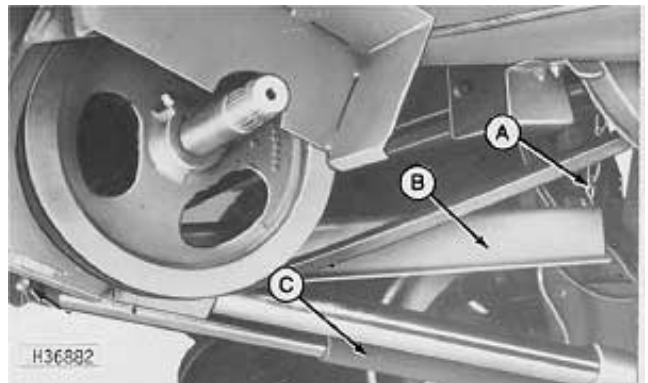
AG,OUO6435,52 -19-10JUN99-6/6

Detaching Belt Pickup From Sidehill 6620 Combine (600001-610000)

Sound horn, start engine and raise platform all the way up. Set parking brake, shut off engine and remove key.

Disconnect chain (A) and lower safety stop (B) on cylinder (C).

A—Chain
B—Safety Stop
C—Cylinder



H36882 -UN-13OCT88

Continued on next page

AG,OUO6435,53 -19-10JUN99-1/6

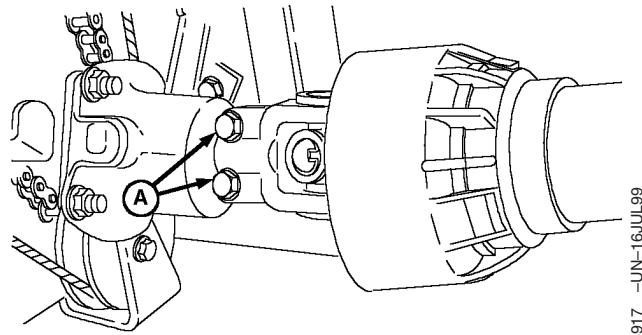
NOTE: Storage cable (E) must be between yoke and nut.

Remove cap screws (A) and drive shaft (B) from feeder house.

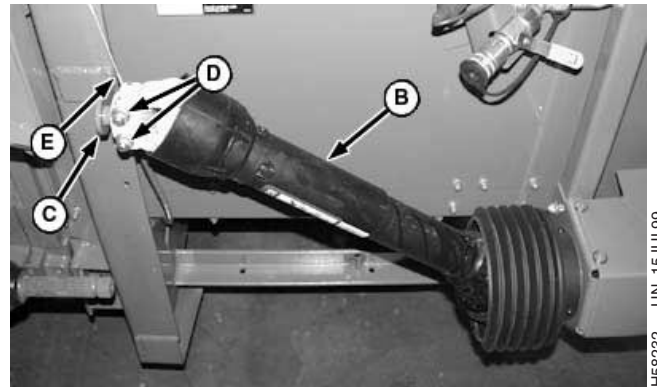
Install driveshaft (B) onto storage pin (C) and retain with cap screws (D), and storage cable (E).

Disconnect wiring harness.

- A—Cap Screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable



H58917 -UN-16JUL99

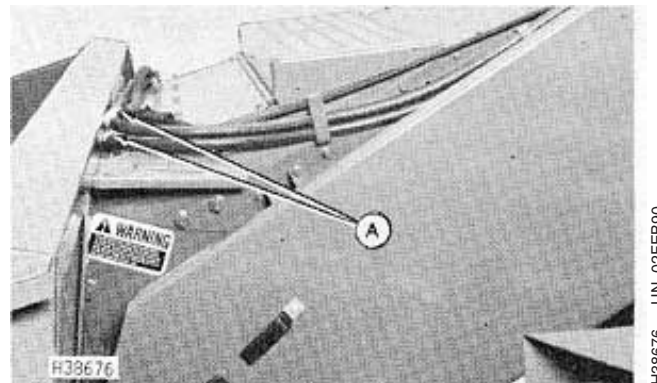


H58232 -UN-15JUL99

AG.OUO6435,53 -19-10JUN99-2/6

Disconnect two hoses from connectors at (A) from belt pickup motor. Long hoses stay with platform.

- A—Hydraulic Hose Connection



H38676 -UN-02FEB90

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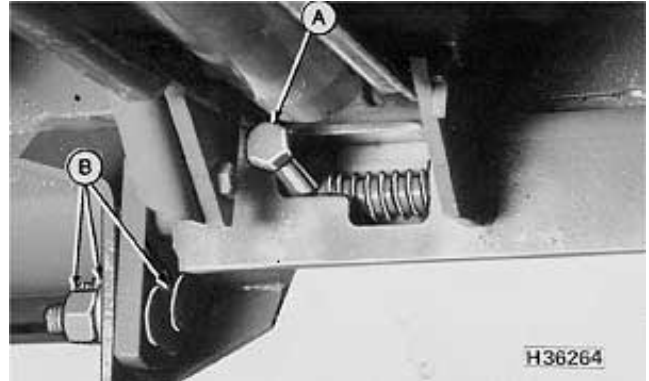
AG.OUO6435,53 -19-10JUN99-3/6

(Both Sides) Slide stop bolt (A) in and down to unlock pin from platform.

Raise safety stop and hook on chain.

Sound horn, start engine, and lower feeder house until platform is on ground and pivot blocks are free.

Drive slowly rearward until feeder house is clear of platform. Set parking brake, shut off engine and remove key.



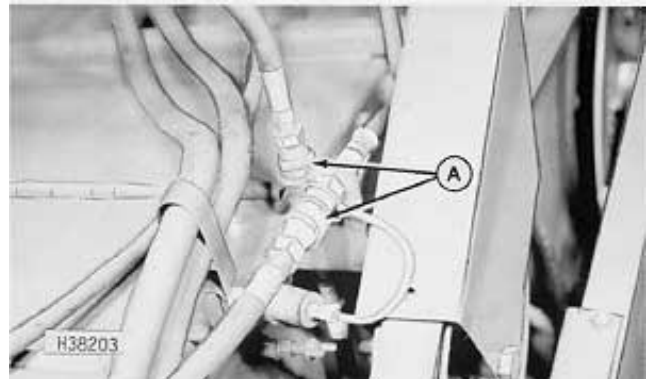
H36264 -UN-13OCT88

A—Stop Bolt
B—Latch Plate Adjusting Screws

AG,OUO6435,53 -19-10JUN99-4/6

Disconnect both variable feeder house hoses at couplers (A) on left side of feeder house only if changing to a platform.

A—Variable Hose Connection



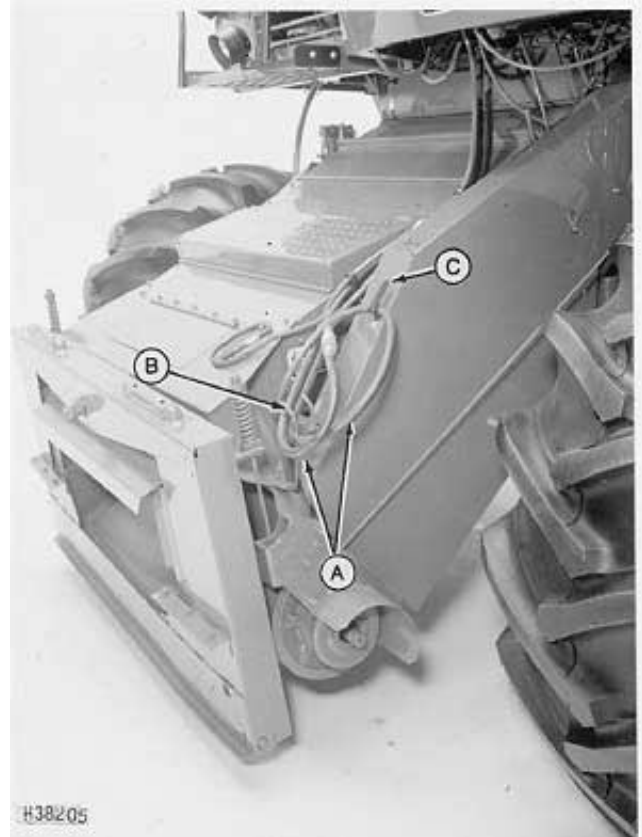
H38203 -UN-13OCT88

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AG,OUO6435,53 -19-10JUN99-5/6

IMPORTANT: Hoses must be connected together when disconnecting a header. Connect combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged by overheating from constant operation of relief valve. Store hoses as shown to prevent damage.

A—Reel Drive Hydraulic Hose
B—Reel Lift Hydraulic Hose
C—Retaining Strap

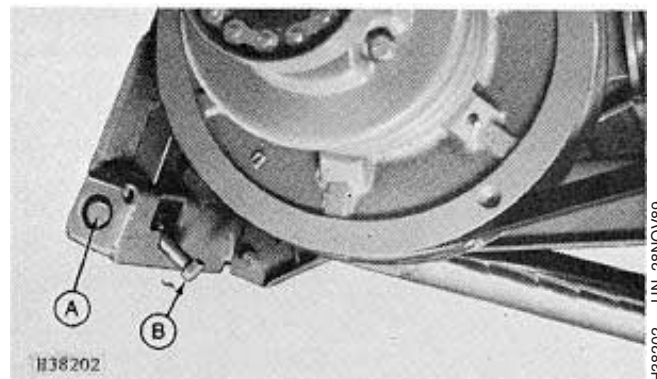


AG.OUO6435,53 -19-10JUN99-6/6

Attaching Belt Pickup To Sidehill 6620 Combine (610001-)

IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by sliding stop bolt (B) in and down. If pins are left in the out position, feeder house will be damaged when header is attached.

A—Lock Pin
B—Stop Bolt



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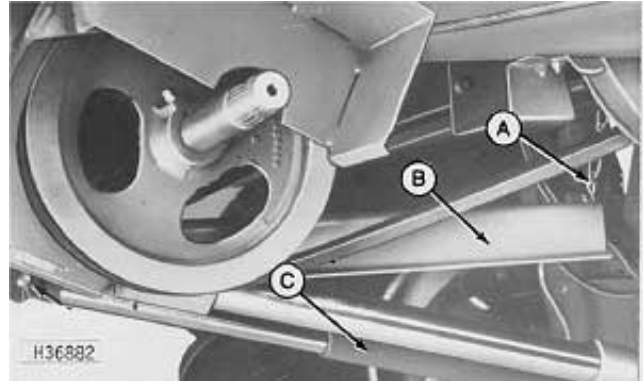
AG.OUO6435,54 -19-10JUN99-1/6

Sound horn, start engine, and lower feeder house.

Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Set parking brake, shut off engine and remove key.

Disconnect chain (A) and lower safety stop (B) on cylinder (C).

- A—Chain
- B—Safety Stop
- C—Cylinder

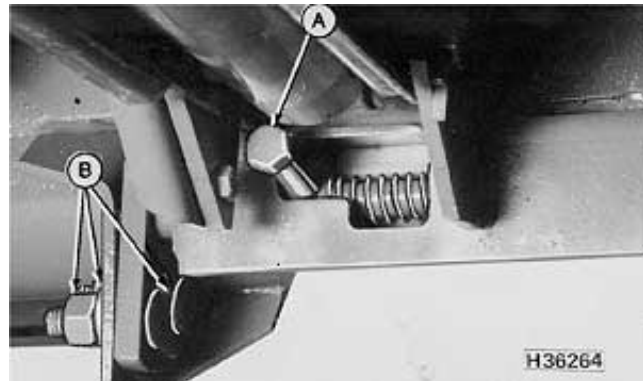


AG,OUO6435,54 -19-10JUN99-2/6

NOTE: Loosen mating lock plate (B) on the platform to let lock pin center. Retighten lock plate.

(Both Sides) Pivot stop bolt (A) up, to let lock pin lock into platform.

- A—Pivot Stop Bolt
- B—Lock Plate Adjusting Bolts



Continued on next page

AG,OUO6435,54 -19-10JUN99-3/6

Remove right-hand feeder house shield.

Remove cap screws (A) from cable (E) and driveshaft (B).

Remove driveshaft¹ (B) from storage pin (C).

Install drive shaft (B) onto feeder house drive shaft and retain with bolts (D), tighten to specification.

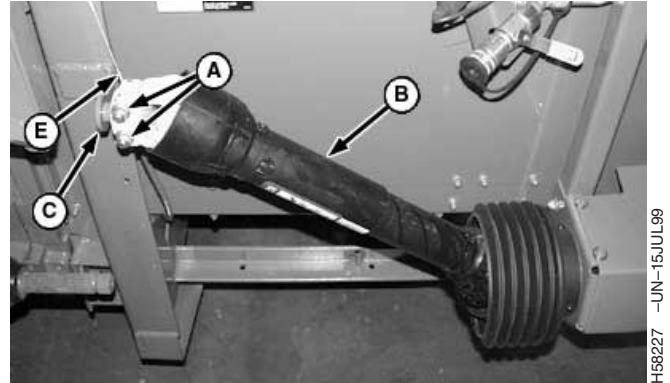
Specification

Cap Screw (D)—Torque..... 130 N•m
(95 lb-ft)

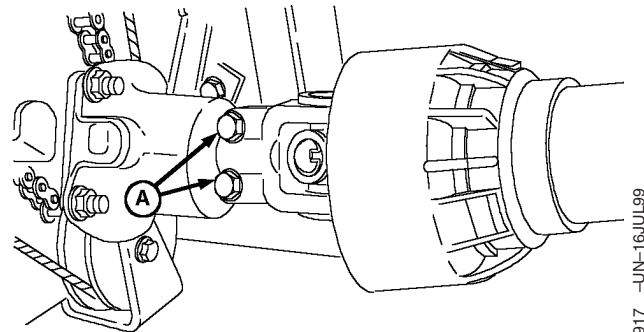
Connect wiring harness.

- A—Cap screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable

¹Requires AH119746 Telescoping Shaft for 6600 and 6620 Sidehill Combines.



H58227 -UN-15JUL99

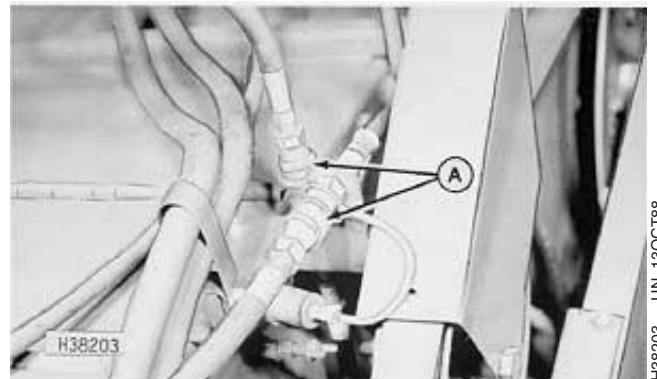


H58917 -UN-16JUL99

AG,OUO6435,54 -19-10JUN99-4/6

Connect both variable feeder house hoses at couplers (A) on left side of feeder house.

A—Variable Hydraulic Hose Connection



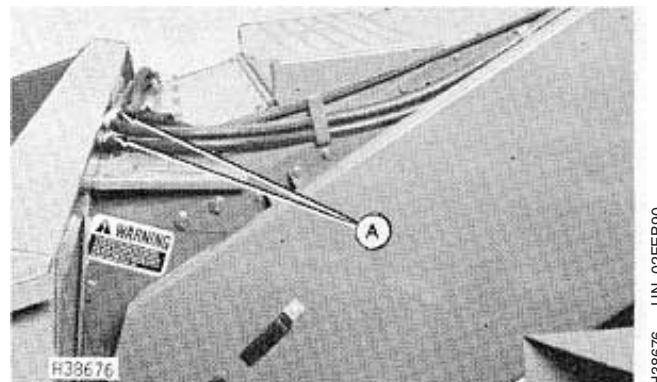
H38203 -UN-13OCT88

AG,OUO6435,54 -19-10JUN99-5/6

Fasten two hoses to connector at (A) from belt pickup motor. Lay hoses across feeder house as shown.

Sound horn, start engine, and move feeder house speed lever rearward to close bottom variable sheaves. Minimum speed on digital tach. Set parking brake, shut off engine and remove key.

A—Hydraulic Hoses



H38676 -UN-02FEB90

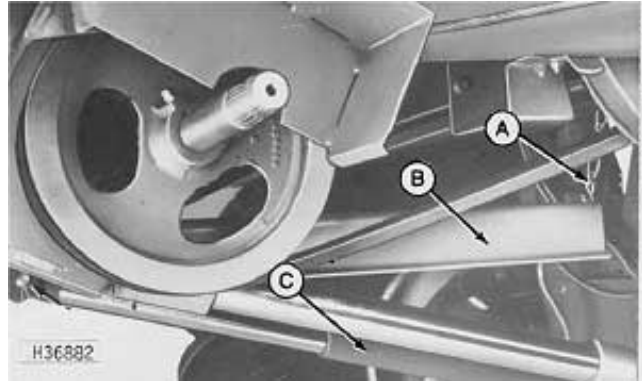
AG,OUO6435,54 -19-10JUN99-6/6

Detaching Belt Pickup From Sidehill 6620 Combines (610001-)

Sound horn, start engine and raise platform all the way up. Set parking brake, shut off engine and remove key.

Disconnect chain (A) and lower safety stop (B) on cylinder (C).

- A—Chain
- B—Safety Stop
- C—Cylinder



H36882 -UN-13OCT88

AG,OUO6435,55 -19-10JUN99-1/6

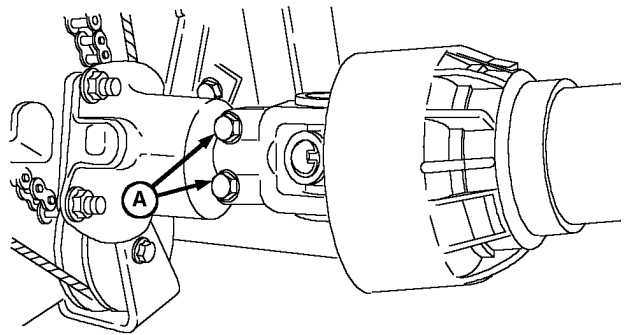
NOTE: Storage cable (E) must be between yoke and nut.

Remove cap screws (A) and drive shaft (B) from feeder house.

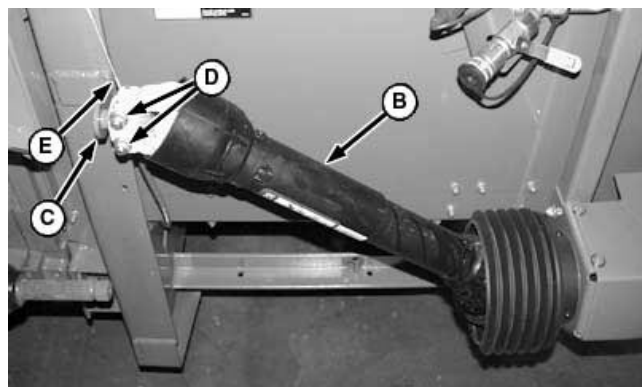
Install driveshaft (B) onto storage pin (C) and retain with cap screws (D), and storage cable (E).

Disconnect wiring harness.

- A—Cap Screws
- B—Drive Shaft
- C—Storage Pin
- D—Cap Screws
- E—Storage Cable



H58917 -UN-16JUL99



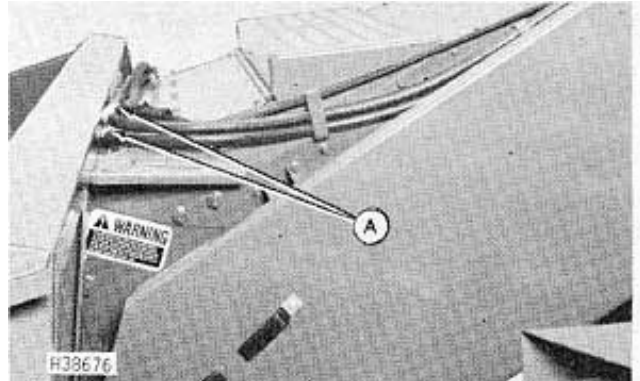
H58232 -UN-15JUL99

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AG,OUO6435,55 -19-10JUN99-2/6

Disconnect two hoses from connectors at (A) from belt pickup motor. Long hoses stay with platform.

A—Hydraulic Hoses



H38676 -UN-02FEB90

AG,OUO6435,55 -19-10JUN99-3/6

(Both Sides) Slide stop bolt (A) in and down to unlock pin from platform.

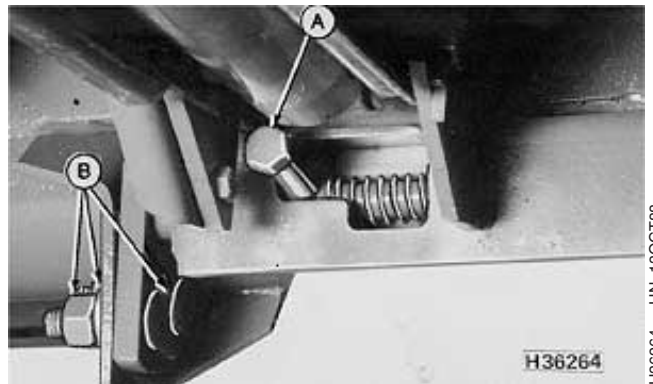
Raise safety stop and hook on chain.

Sound horn, start engine, and lower feeder house until platform is on ground and pivot blocks are free.

Drive slowly rearward until feeder house is clear of platform. Set parking brake, shut off engine and remove key.

A—Stop Bolt

B—Latch Plate Adjusting Bolts

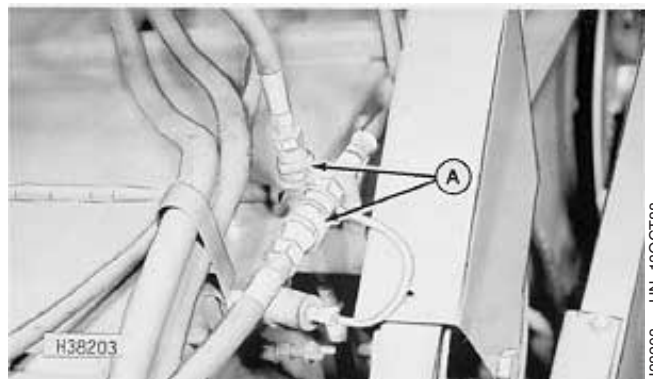


H36264 -UN-13OCT88

AG,OUO6435,55 -19-10JUN99-4/6

Disconnect both variable feeder house hoses at couplers (A) on left side of feeder house only if changing to a platform.

A—Hydraulic Hose Connection



H38203 -UN-13OCT88

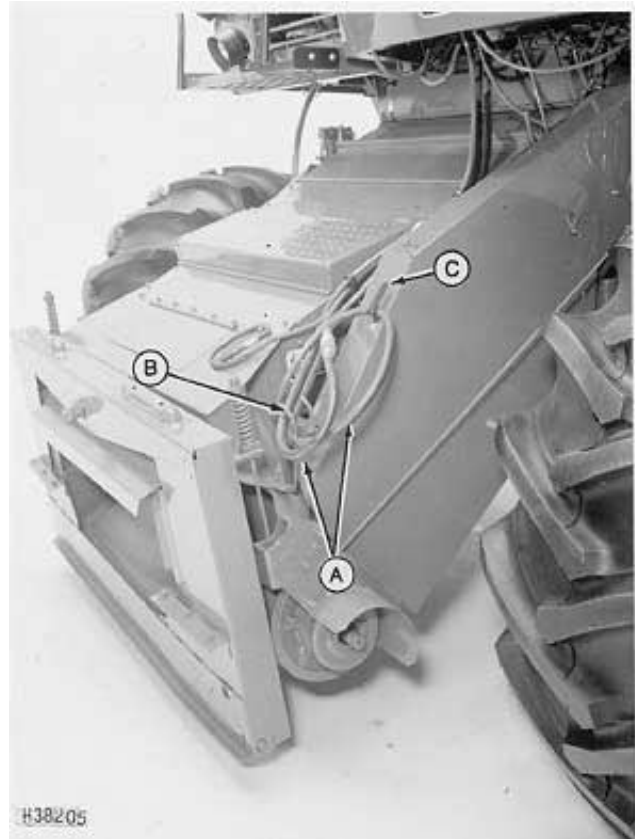
Continued on next page

AG,OUO6435,55 -19-10JUN99-5/6

IMPORTANT: Hoses must be connected together when disconnecting a header. Connect combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged by overheating from constant operation of relief valve.

Connect hoses (A), and store hoses (A) and (B) under strap (C).

- A—Reel Drive Hydraulic Hoses
- B—Reel Lift Hydraulic Hoses
- C—Retaining Strap



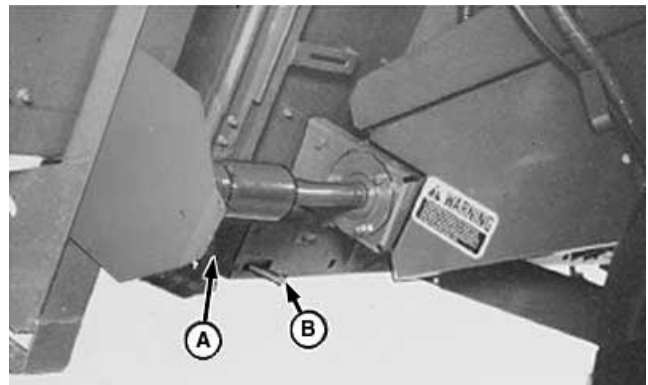
H38205 —UN—13OCT88

AG,OUO6435,55 —19—10JUN99—6/6

Attaching Belt Pickup To 4420 (600001-), 4425 AND 4435 Combines

IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by sliding stop bolt (B) in and down. If pins are left in the out position, feeder house will be damaged when header is attached.

- A—Lock Pin
- B—Stop Bolt



H58940 —UN—16JUL99

4425 Combine

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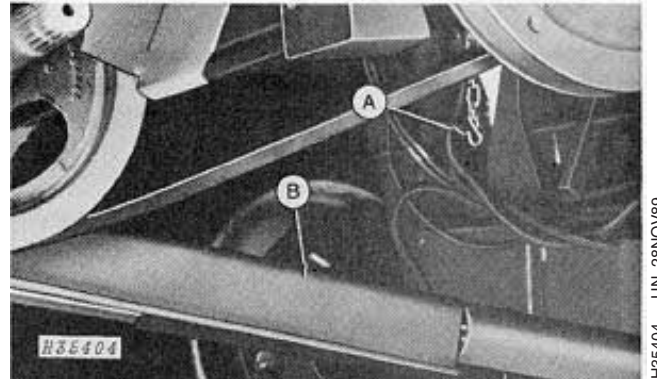
AG,OUO6435,43 —19—09JUN99—1/5

Sound horn, start engine, and lower feeder house.

Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform, all the way up. Set parking brake, shut off engine and remove key.

Disconnect chain (A) and lower safety stop (B) on cylinder.

A—Chain
B—Safety Stop



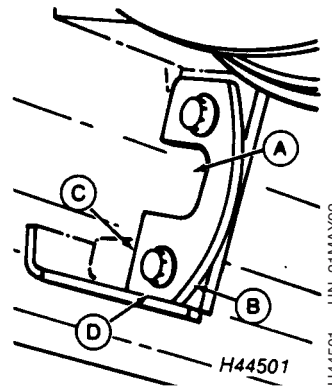
H35404 -UN-28NOV89

AG,OUO6435,43 -19-09JUN99-2/5

IMPORTANT: Header may detach from combine if latch plate is not in place.

Slide lock pin under feeder house into hole (A) on header (both sides). Lock pin must extend through latch plate (B). Install latch plate with wide side (C) below pin whenever possible. Latch plate must contact surface (D). Tolerances may require that latch plates be installed differently on left- and right-hand sides.

Place chain around sprocket and slide coupler over sprocket and chain. Repeat for other side.



H44501 -UN-21MAY92

A—Lock Pin Hole
B—Latch Plate
C—Latch Plate
D—Contact Surface

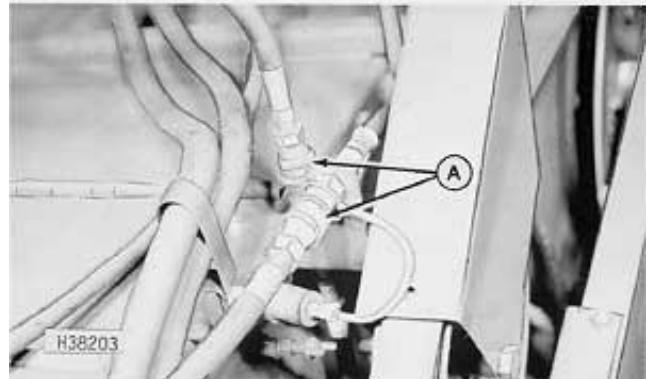
Continued on next page

AG,OUO6435,43 -19-09JUN99-3/5

Connect wiring harness.

Connect both variable feeder house hoses at couplers (A) on left side of feeder house.

A—Couplers



4420 Combine

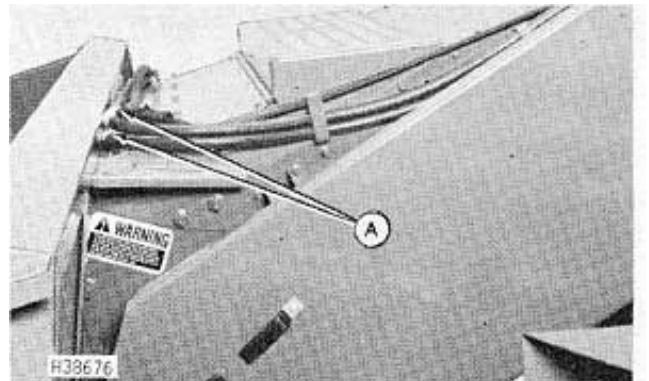
H38203 -UN-13OCT88

AG,OUO6435,43 -19-09JUN99-4/5

Fasten two hoses to hose connectors (A) from belt pickup motor. Lay hoses across feeder house as shown.

Sound horn, start engine, and move the feeder house speed lever forward to close bottom variable sheaves or minimum speed in lower feeder house drive shaft. Set parking brake, shut off engine and remove key.

A—Hose Connector



H38676 -UN-02FEB90

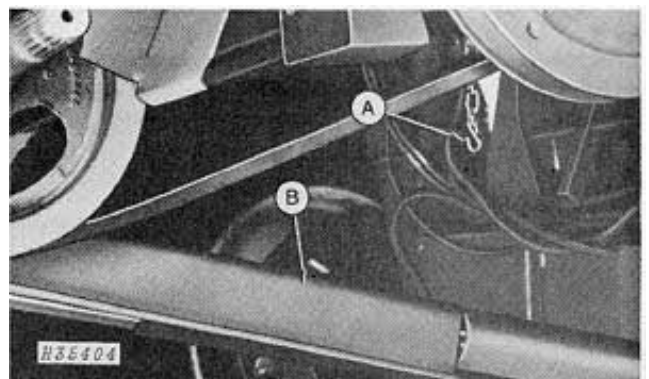
AG,OUO6435,43 -19-09JUN99-5/5

Detaching Belt Pickup From 4420 (600001-), 4425 And 4435 Combines

Sound horn, start engine, and raise platform all the way up. Set parking brake, shut off engine and remove key.

Disconnect chain (A) and lower safety stop (B) on cylinder.

A—Chain
B—Safety Stop



H35404 -UN-28NOV89

Continued on next page

AG,OUO6435,45 -19-09JUN99-1/4

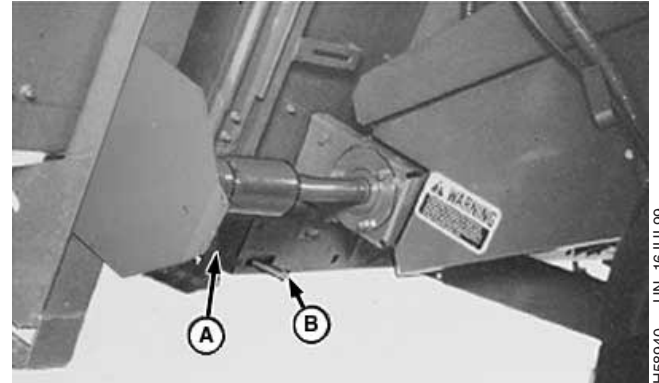
Disconnect wiring harness.

(Both sides) Slide and pivot stop bolt (B) down to let lock pin (A) unlock platform.

Raise safety stop (B) and hook on chain (A).

Sound horn, start engine, and lower feeder house until platform is on ground and pivot blocks or hooks are free.

Drive slowly rearward until feeder house is clear of platform. Set parking brake, shut off engine and remove key.



4425 Combines

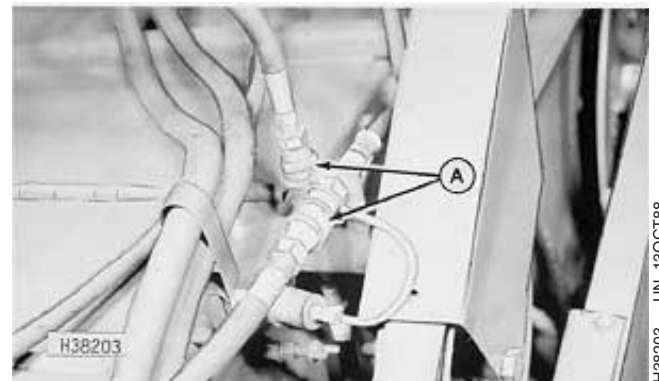
A—Lock Pins
B—Stop Bolt

AG.OUO6435,45 -19-09JUN99-2/4

Disconnect both variable feeder house hoses at couplers (A) on left side of feeder house only if changing to a cutting platform.

Disconnect both hoses to belt drive motor at connectors on feeder house.

A—Hydraulic Hose Couplers



AG.OUO6435,45 -19-09JUN99-3/4

IMPORTANT: Hoses must be connected together when disconnecting header. Connect the combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged by overheating from constant operation of relief valve.

Store hoses as shown to prevent damage.



AG.OUO6435,45 -19-09JUN99-4/4

Transporting

Transporting



CAUTION: Follow local regulations regarding width, lighting and marking. The use of a spotter or a pilot vehicle is recommended on busy, narrow or hilly roads and when crossing bridges.

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

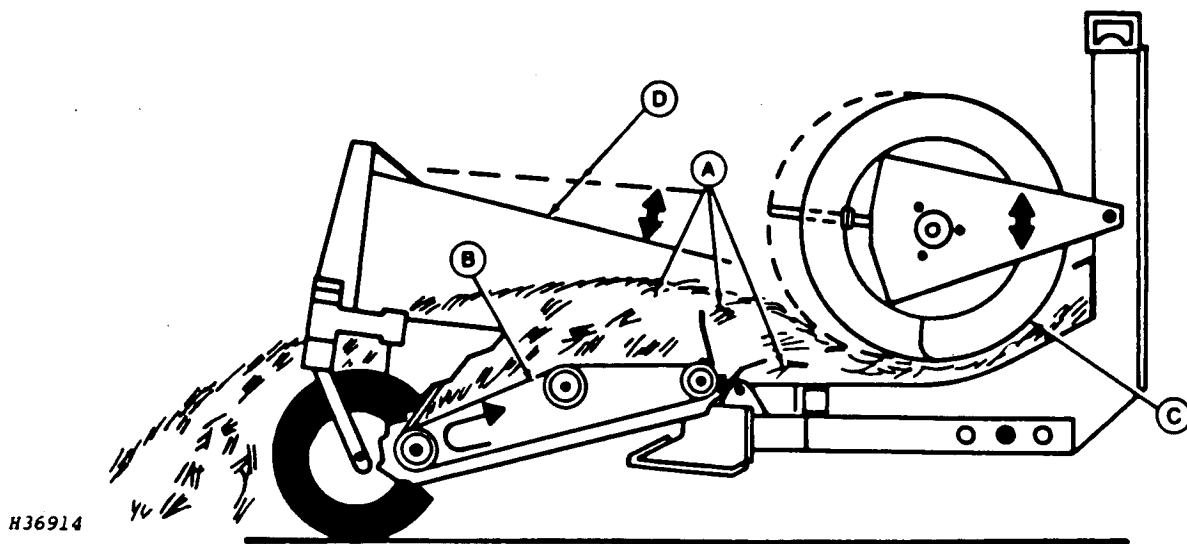
Check local width laws before transporting. The platform can be transported by leaving it attached to the combine but it is recommended that a trailer be used.

1. Empty grain tank.
2. Swing auger back and secure with brace.
3. Make sure that the flashing warning lights on the header and combine are operating and the reflective material is clean and visible.
4. Couple brake pedals together.
5. Raise platform to a position that will keep it off the ground but still allow good visibility.
6. Drive at a speed that is safe for conditions.

900CP,TR,A -19-18AUG97-1/1

Operation

General Information



A—Crop Flow

B—Pickup Belts

C—Auger

D—Floating Hold Down

The belt pickup platform receives the crop (A) and moves it to front of feeder house by means of belts (B) and auger (C). Retracting fingers in auger feed

material to the feeder conveyor. The floating hold down (D) helps keep flow of crop even.

AG.OUO6435,57 -19-10JUN99-1/1

H36914 -UN-02FEB90

Pickup Speed

Successful operation depends largely upon speed and pitch of belt pickup.

If the crop is pushed ahead of belt pickup or if it does not release from stripper, pickup speed is too slow.

If windrow is torn apart as it is elevated onto platform, pickup speed is too fast.

Hydrostatic belt pickup drive on all self-propelled combines lets the operator vary speed of belt pickup without leaving operator's platform.

Belt pickup speed is changed from 50 rpm to 450 rpm by turning control knob on console (20 Series Combines) or by pressing the manual reel speed switch (10 and 50 Series Combines).

(50 Series Combines) To increase pickup speed, press and hold "+"; to decrease speed, press and hold "-".

(10 Series Combines) To increase pickup speed, press and hold rabbit symbol; to decrease speed, press and hold turtle symbol.

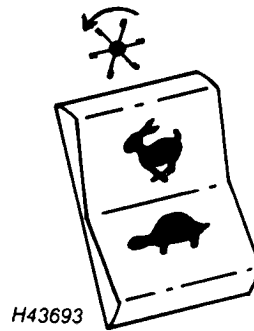
(20 Series Combines) To increase pickup speed, turn knob to the right; to decrease pickup speed, turn knob to the left.

Use reference indicator to return to speed previously found best suited for a particular crop or field condition.

If this belt pickup is used with a 20 Series combine (625001-), maximum pickup speed may be too slow. If this is unacceptable, install AH83518 pickup drive pump sheave.

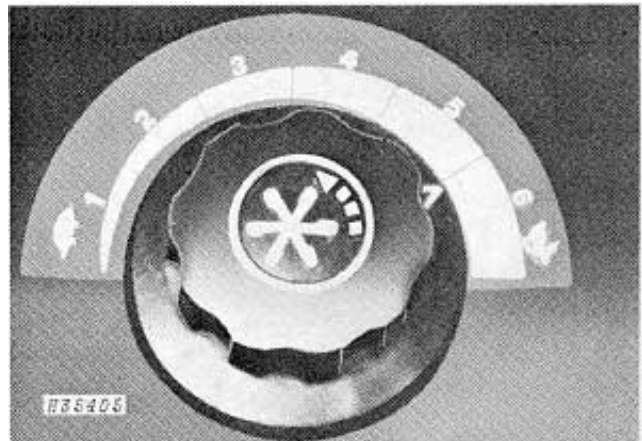


H59054 -UN-28JUL99



H43693

H43693 -UN-06AUG91



H35405 -UN-02FEB90

AG,OUO6435,58 -19-10JUN99-1/1

Pickup Pitch

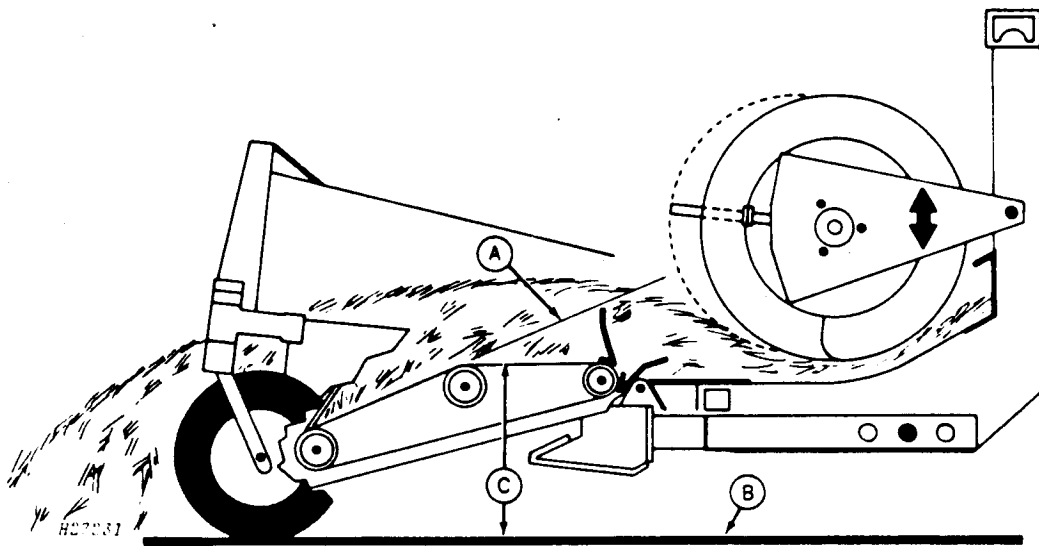
In addition to proper speed, correct pitch of belt pickup is important for good pickup operation.

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

If pitch is altered considerably, check distance between pickup fingers and ground. If fingers are digging into ground, lower gauge wheel; if fingers are not low enough to gather all the crop, raise gauge wheel. See Adjusting Gauge Wheels.

AG.OUO6435,59 -19-10JUN99-1/1

Pickup Pitch (Normal Windrow Condition)



A—Pitch Line

B—Ground Line

C—Parallel To Ground Line

If ground conditions are normal and windrow is lying on top of stubble and off the ground, operate belt pickup as level as possible between center and drive rollers.

IMPORTANT: This portion of belt pickup must be parallel with ground, for good pickup and direct feeding to platform auger.

NOTE: Platform is set in 102 mm (4 in.) forward position. Rear position is used for short crops or damp windrow conditions. 102 mm (4 in.) forward position is used for medium length crops. 203 mm (8 in.) forward position is used for long straw crops.

H27231 -UN-02FEB90

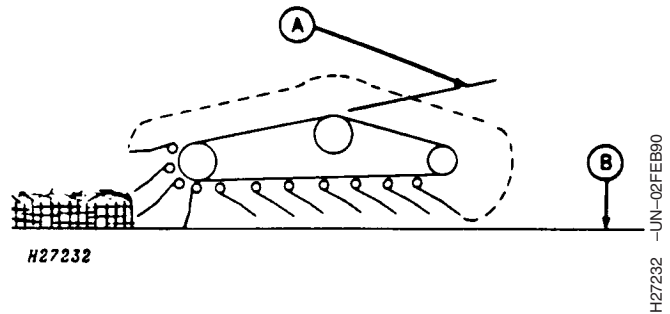
AG.OUO6435,60 -19-10JUN99-1/1

Pickup Pitch (Poor Windrow Condition)

If windrow is embedded in stubble, if stubble is short, or if windrow is lying on ground, decrease the pitch of pickup. This lets more fingers come closer to ground, for better combing action.

IMPORTANT: Do not decrease pitch to a point where pickup bottom is parallel with ground. This lets lower mounting arms dig into ground in dips and swales and cause serious damage to platform.

When pitch is decreased, pickup fingers can pick up dirt. To eliminate this condition, lower gauge wheels 13 mm (1/2 in.) at a time until fingers no longer dig into ground. (See Adjusting Gauge Wheels.)



A—Pitch Line
B—Ground Line

AG.OUO6435,61 -19-10JUN99-1/1

Pickup Pitch (Rocky Conditions)

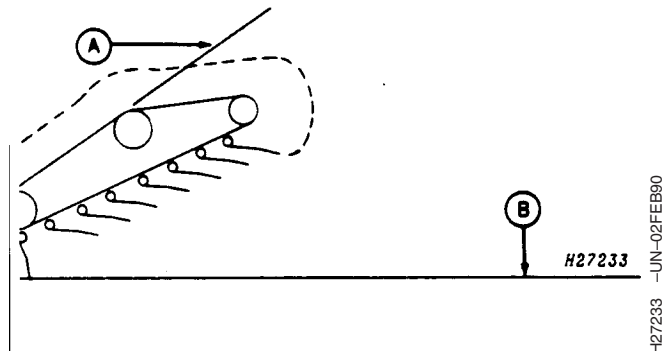
Increase pitch of belt pickup only in rocky conditions to prevent rocks from being carried into platform auger. Check and clean stone traps daily.

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

When operating in this position, gauge wheels must be in full contact with ground to prevent missing strips of crop.

Adjust hold-down to its lowest position and reduce speed of belt pickup.

IMPORTANT: Do not operate belt pickup without flow of grain over belts. Without grain flow rapid stripper wear occurs.



A—Pitch Line
B—Ground Line

AG.OUO6435,123 -19-15JUL99-1/1

Pickup Height

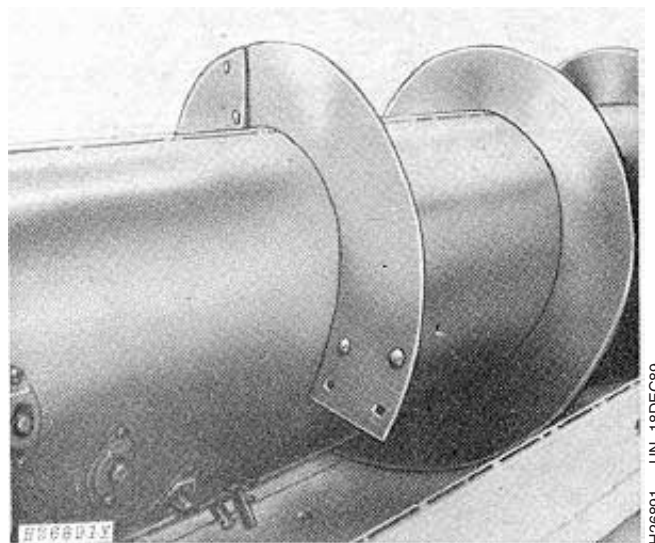
If pitch is altered considerably, check distance between pickup fingers and ground. Operate belt pickup just low enough to allow pickup fingers to gather in all the crop, but high enough so fingers do not dig into ground.

Distance between pickup fingers and ground is regulated by adjusting gauge wheels up or down. If fingers are digging into ground, lower gauge wheels. If fingers are not low enough to gather all the crop, raise the gauge wheels.

AG,OUO6435,62 -19-10JUN99-1/1

Auger Flight Extensions (Attachment)

Auger flight extensions are recommended for use in short, slick feeding conditions. Extensions help move crop closer to center of feeder hose for even feeding to cylinder.



H26881 -UN-18DEC89

AG,OUO6435,80 -19-11JUN99-1/1

Calibration Procedures

When to Calibrate

The following calibration procedures must be performed before first use or when replacing any of the sensors.

- Header Calibration - hdr

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

If any errors occur during the calibration procedures, error codes will be displayed on the triple display tachometer. (See "CALIBRATION ERROR CODES").

AG,OUO1035,1379 -19-05JAN00-1/1

Header Calibration

The header calibration must be performed when a header is first used with a combine or when any of the sensors are replaced. The Height Resume sensor must be operating.

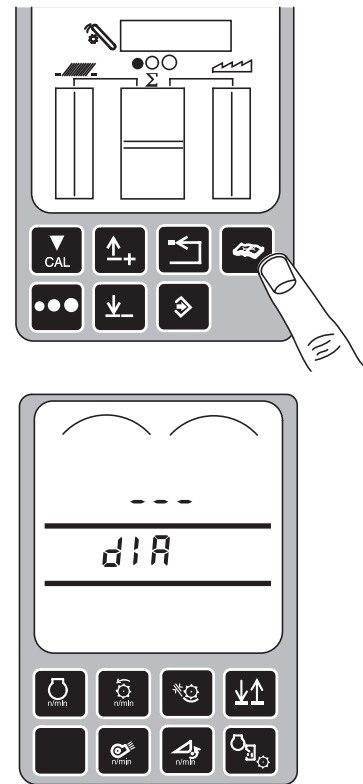
Prepare the header for calibration:

- Attach header to combine and connect header harness to combine harness.
- Make sure header height sensors (if equipped) are operating.
- Start combine and drive onto a level firm surface.

Continued on next page

AG,OUO1035,690 -19-09JUN99-1/11

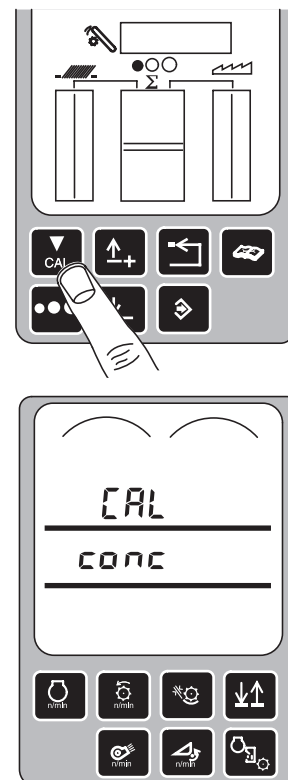
Press the diagnostic switch. DIA will appear on the triple display tachometer.



H54583 -UN-24JUN99

AG.OUO1035,690 -19-09JUN99-2/11

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

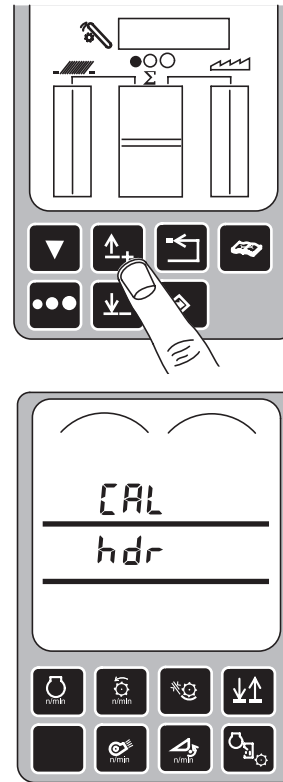


H54595 -UN-24JUN99

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AG.OUO1035,690 -19-09JUN99-3/11

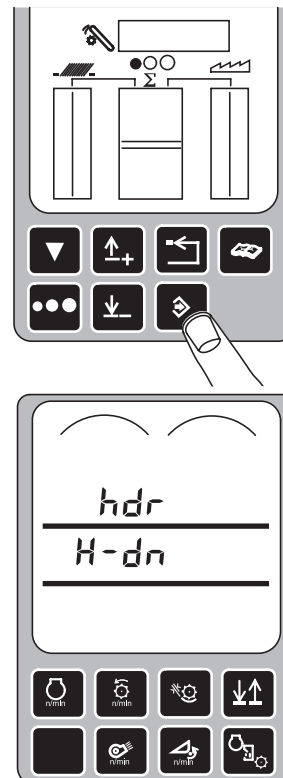
Press the up or down arrow keys until CAL and hdr appears on the tachometer.



H54596 -JUN-27MAY99

AG,OUO1035,690 -19-09JUN99-4/11

Press the enter switch to access the header calibration mode. hdr and H-dn will now appear on the tachometer.



H54597 -JUN-27MAY99

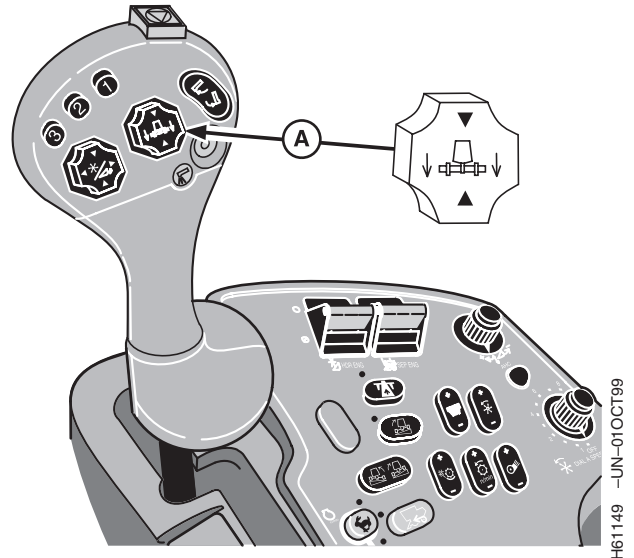
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AG,OUO1035,690 -19-09JUN99-5/11

Establish sensor minimum setting.

Lower and tilt the header with the header raise/lower and tilt switch (A) until it rests flat on the ground. The left- and right-hand sides of the header should contact the ground at the same time as the header is lowered.

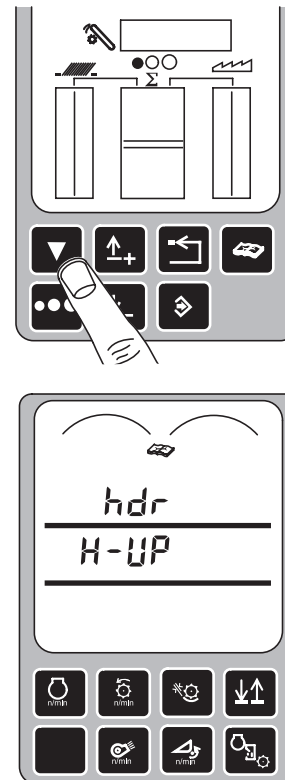
A—Header Raise/Lower Switch



H61149 -UN-01OCT99

AG.OUO1035,690 -19-09JUN99-6/11

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



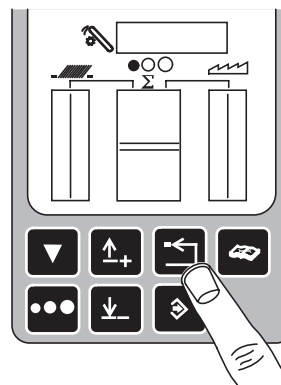
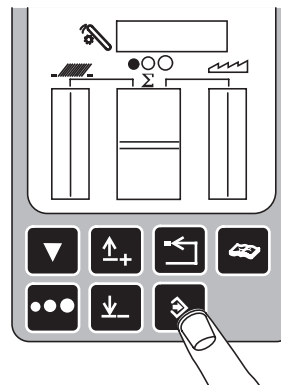
H54599 -UN-27MAY99

Continued on next page

AG.OUO1035,690 -19-09JUN99-7/11

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

Press the back arrow switch to return to normal operation.



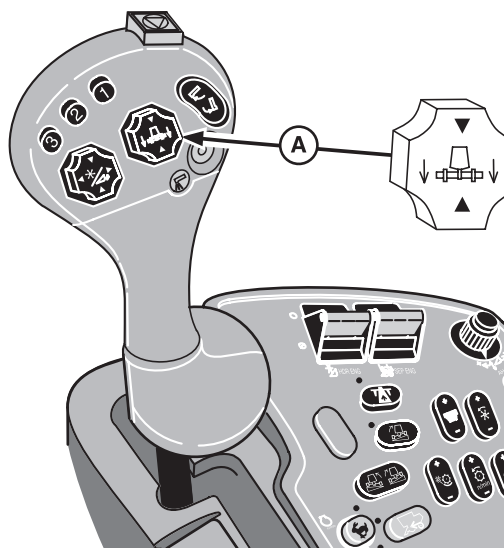
H64601 -UN-27MAY99

AG,OUO1035,690 -19-09JUN99-8/11

Establish sensor maximum setting.

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

A—Header Raise/Lower Switch

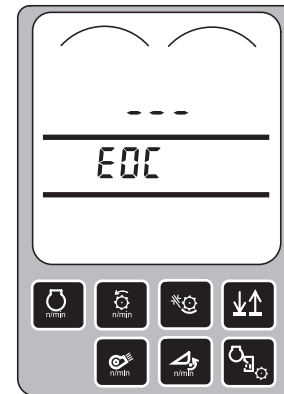
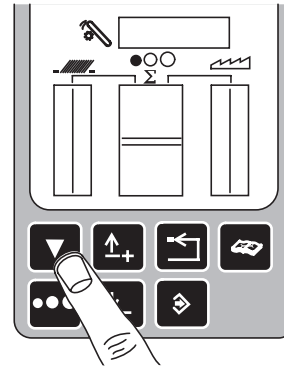


H61149 -UN-01OCT99

Continued on next page

AG,OUO1035,690 -19-09JUN99-9/11

Press the calibration switch. EOC will be displayed on the tachometer.

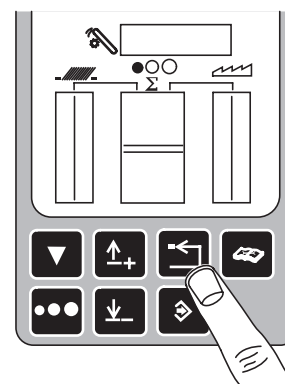
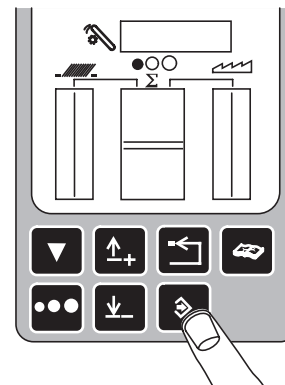


H54600 -UN-16JUN99

AG_OUO1035.690 -19-09JUN99-10/11

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

Press the back arrow switch to return to normal operation.



H54601 -UN-27MAY99

AG_OUO1035.690 -19-09JUN99-11/11

Calibration Error Codes

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

If any errors occur during the calibration procedures, error codes will be displayed on the triple display tachometer.

Calibration errors: Header sensors must operate or have output signals within specified ranges required by the header controller in the combine. Error warnings will be displayed during header calibration if these specifications are violated. The sensor must be adjusted or additional trouble shooting will need to be performed in order to correct the error.

Header Sensor Operation: Header sensors must operate or have output signals within specified ranges required by the header controller in the combine. Error warnings will be displayed during header calibration if these specifications are violated. The sensor must be adjusted or additional trouble shooting will need to be performed in order to correct the error.

Height sensor: The height sensor is on the right side of the head. A linkage connects the sensor to a cross shaft on the pickup unit. The sensor has two adjustments. The linkage length is adjustable to increase or decrease the voltage output of the sensor. The linkage is set at 70 mm at the factory. It can be adjusted to a maximum length of 85 mm. Increasing the length of the linkage will increase the sensor voltage. Decreasing the length will decrease the voltage. The linkage can also be set in three different hole positions on the arm on the cross shaft. Moving the end of the linkage to a forward hole increases the sensor voltage. Moving the end back to a rearward hole decreases the sensor voltage.

Continued on next page

AG,OUO6035,135 -19-20JUN00-1/3

Calibration Procedures

Calibration Error Codes Error Code	Description	#	Adjustment/Correction
ER02	No head connected or invalid header type	1	Connect the combine harness to the head.
		2	Check pins in header harness connector. Certain pins need to be 12 volts for the combine to recognize the head. See your John Deere dealer.
ER91	Belt header height position sensor voltage less than 0.5 VDC	1	Check that the wiring harness is securely plugged into the belt height sensor.
		2	Inspect the belt height sensor arm and linkage for damage or movement. See you John Deere dealer.
		3	Adjust the linkage on the belt height sensor to increase the voltage. Move the end of the linkage in the arm on the belt height sensor shaft forward one hole in the arm. If the linkage is already all the way forward, increase the linkage length by 5 mm (5 turns), or look at other adjustments or corrections. If moving the linkage one hole forward causes the re-calibration to fail due to high voltage, move the linkage back to the original hole (rearward one hole) and increase the linkage length by 5 mm (5 turns).
		4	Inspect the belt height sensor arm and linkage for damage or movement. Repair any damage.
		5	Check the belt height sensor and replace if needed. See your John Deere dealer.
ER92	Belt header height position sensor voltage greater than 4.5 VDC	1	Inspect the belt height sensor arm and linkage for damage or movement. Repair any damage.
		2	Check that the belt height sensor shaft is not hanging up. Inspect for damaged or binding parts. Repair as needed.
		3	Check the return spring on the belt height sensor shaft on the right side of the platform. Replace if stretched or damaged.
		4	Adjust the linkage on the belt height sensor to decrease the voltage. Move the end of the linkage in the arm on the belt height sensor shaft rearward one hole in the arm. If the linkage is already all the way rearward, decrease linkage length by 5 mm (5 turns), or check other adjustments or corrections. If moving the linkage one hole causes the re-calibration to fail due to low voltage, move the linkage back to the original hole (forward one hole) and increase the linkage length by 5 mm (5 turns.)
		5	Check the belt height sensor and replace if needed. See your John Deere dealer.
ER93	Belt header height position sensor voltage noisy or changing in an incorrect direction	1	Inspect the belt height sensor arm and linkage for damage or movement. Repair any damage.
		2	Check the wiring harness to the belt height sensor. See your John Deere dealer.

Continued on next page

AG,OUO6035,135 -19-20JUN00-2/3

Calibration Procedures

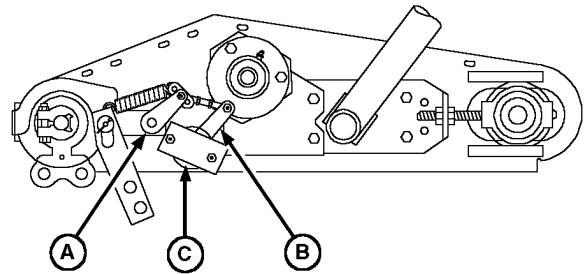
Error Code	Description	#	Adjustment/Correction
		3	Check the belt height sensor and replace if needed. See you John Deere dealer.
ER94	Belt header height position sensor voltage range less than 2.0 VDC	1	Inspect the belt height sensor arm and linkage for damage or movement. Repair any damage.
		2	Check that the belt height sensor shaft is not hanging up. Inspect for damaged or binding parts. Repair as needed.
		3	Check the return spring on the belt height sensor shaft on the right side of the platform. Replace if stretched or damaged.
		4	Check the belt height sensor and replace if needed. See your John Deere dealer.
ER95	Belt header height position sensor "lowered" voltage greater than 2.5 VDC	1	Adjust the linkage on the belt height sensor to decrease the voltage. Move the end of the linkage in the arm on the belt height sensor shaft rearward one hole in the arm. If the linkage is already all the way rearward, decrease linkage length by 5 mm (5 turns), or check other adjustments or corrections. If moving the linkage one hole causes the re-calibration to fail due to low voltage, move the linkage back to the original hole (forward one hole) and increase the linkage length by 5 mm (5 turns.)
		2	Inspect the belt height sensor arm and linkage for damage or movement. Repair any damage.
		3	Check the belt height sensor and replace if needed. See your John Deere dealer.
ER96	Belt header height position sensor "raised" voltage less than 2.5 VDC	1	Inspect the belt height sensor arm and linkage for damage or movement. Repair any damage.
		2	Check that the belt height sensor shaft is not hanging up. Inspect for damaged or binding parts. Repair as needed.
		3	Check the return spring on the belt sensor shaft on the right side of the platform. Replace if stretched or damaged.
		4	Adjust the linkage on the belt height sensor to increase the voltage. Move the end of the linkage in the arm on the belt height sensor shaft forward one hole in the arm. If the linkage is already all the way forward, increase the linkage length by 5 mm (5 turns), or check other adjustments or corrections. If moving the linkage one hole forward causes the re-calibration to fail due to high voltage, move the linkage back to the original hole (rearward one hole) and increase the linkage length be 5 mm (5 turns).
		5	Check the belt height sensor and replace if needed. See your John Deere dealer.

Active Header Control (AHC)TM Operation

Active Header Control (AHC)TM Display (Optional)

The belt pickup operates within a 2 in. (51 mm) float range. When the ground level moves the gauge wheels up, actuator arm (A) turns potentiometer arm (B) in potentiometer (C). The movement of the potentiometer arm changes the voltage in the potentiometer.

The voltage is read by the combine and transferred into a raise or lower signal.



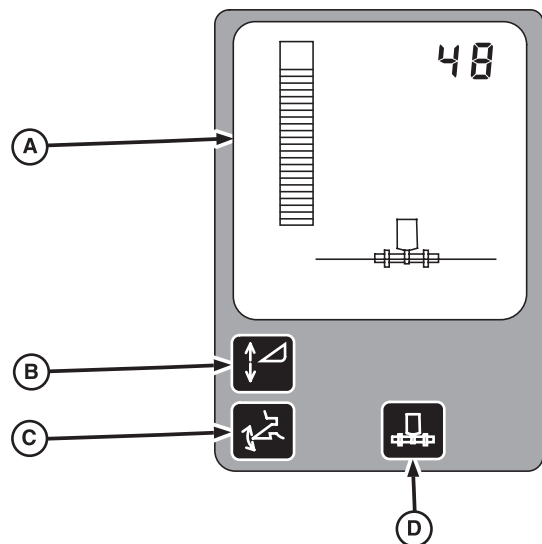
- A—Actuator Arm
- B—Potentiometer Arm
- C—Potentiometer

H59071 -UN-03AUG99

Active Header Control is a trademark of Deere & Company

AG,OUO1035,572 -19-06MAY99-1/2

- A—Display
- B—Header Height Sensing Switch
- C—Header Height Resume Switch
- D—CONTOURMASTERTM Switch



H52265 -UN-16JUN99

CONTOURMASTER is a trademark of Deere & Company

AG,OUO1035,572 -19-06MAY99-2/2

Header Height Resume (Optional)

Header Height Resume control allows the operator to select the position of the feeder house relative to the combine and return to that position automatically.

The feeder house stays in that position until a new position is selected or it is manually raised or lowered.

The Header Height Resume system must be calibrated for each header that is used with the combine (See “CALIBRATION PROCEDURES” section).

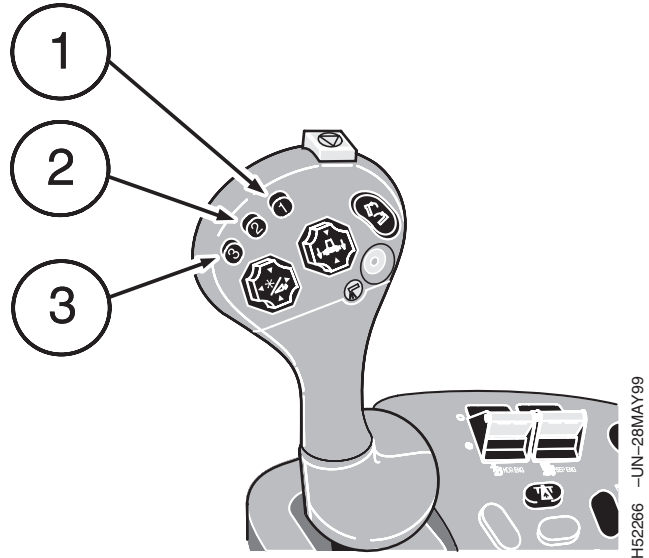
Activation buttons 1, 2 and 3 located on the multi-function handle, are used for selecting three different header heights.

NOTE: *If both Header Height Resume and Header Height Sensing are enabled activation button 1 will activate Header Height Resume. Activation buttons 2 and 3 will be assigned to Header Height Sensing.*

Operation:

The Header Height Resume mode can be activated only when:

1. A properly equipped header is connected to the combine.
2. The engine is running.
3. The road transport disconnect switch is in the field position.
4. Header Height resume mode is enabled.
5. The header engage switch is engaged.



Continued on next page

AG,OUO1035,573 -19-06MAY99-1/2

The Header Height Resume system is enabled by pressing switch (A) on the corner post display unit (if equipped). The Header Height Resume symbol (B) will appear on the display.

If not equipped with optional corner post display, the Header Height Resume function is enabled when the engine is running, operator is seated and the header is engaged.

Activate the Header Height Resume system by pressing one of the activation buttons 1, 2 or 3 on the multi-function handle. Arrows (C) on each side of the symbol indicate that the system is active.

The number (D) in the lower left corner of the display indicates which activation button was pushed.

To change the height setpoint (E) of any of the activation buttons, press the desired button and adjust the height using the Active Header Control (AHC)[™] dial (F) to move the height setpoint.

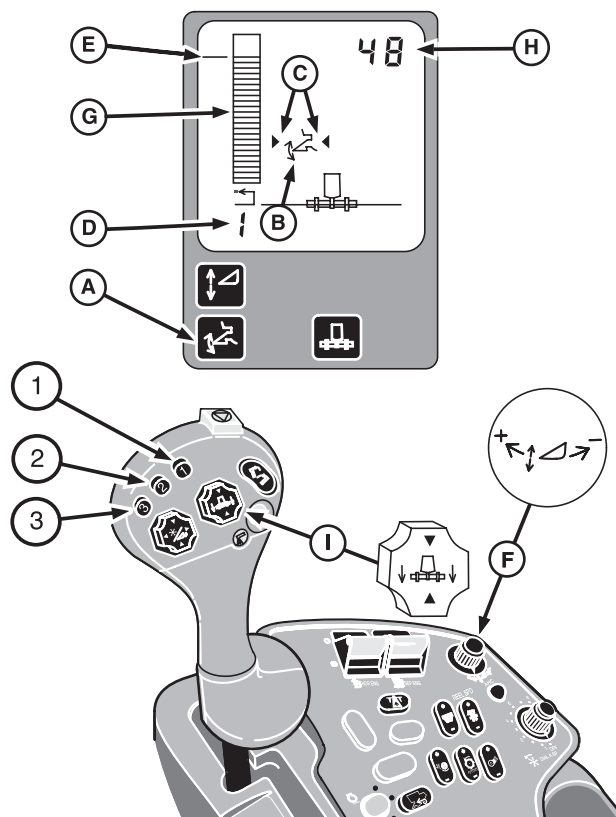
Turning the dial towards the (+) symbol will raise the header. Turning the dial towards the (-) symbol will lower the header.

Bar graph (G) and number display (H) show the relative position of the header, based on the Header Height Resume sensor linked to the feeder house.

Manually adjusting the header height with switch (I) on the multi-function handle will deactivate the Header Height Resume system.

Pressing any of the activation buttons will reactivate the system and the header will move to the preselected height.

The Header Height Resume system can be disabled by pressing switch (A).



- A—Switch
- B—Header Height Resume Symbol
- C—Indicator Arrows
- D—Number
- E—Height Setpoint
- F—Height Control Dial
- G—Bar Graph
- H—Number
- I—Switch

H52267 -UN-17JUN99

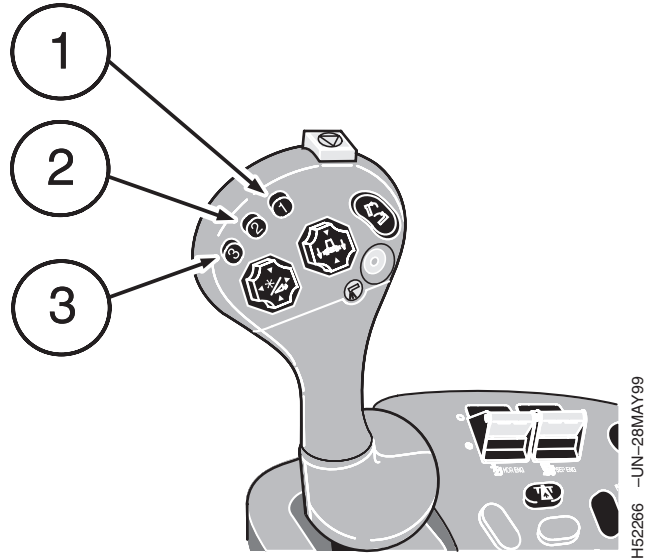
Header Height Sensing (Optional)

Header Height Sensing allows the operator to select the position of the header relative to the ground, follow the ground contour, and return to that position automatically.

The Header Height Sensing system must be calibrated for each header that is used with the combine (See “CALIBRATION PROCEDURES” section).

Activation buttons 1, 2 and 3 located on the multi-function handle, are used for selecting three different header heights.

NOTE: If both Header Height Resume and Header Height Sensing are enabled activation button 1 will activate Header Height Resume. Activation buttons 2 and 3 will be assigned to Header Height Sensing.



Operation:

Header Height Sensing mode can be activated only when:

1. A properly equipped header is connected the combine.
2. The engine is running.
3. The road transport disconnect switch is in the field position.
4. Header height sensing mode is enabled.
5. The header engage switch is engaged.

Continued on next page

AG,OUO1035,574 -19-06MAY99-1/2

The Header Height Sensing system is enabled by pressing switch (A) on the corner post display unit. The Header Height Sensing symbol (B) will appear on the display.

Activate the Header Height Sensing system by pressing one of the activation buttons 1, 2 or 3 on the multi-function handle. Arrows (C) on each side of the symbol indicate that the system is active.

The number (D) in the lower left corner of the display indicates which activation button was pushed.

If you wish to change the height setpoint (E) of any of the activation buttons, press the desired activation buttons and adjust the height using the Active Header Control (AHC)[™] dial (F) to move the height setpoint and to move the header up or down.

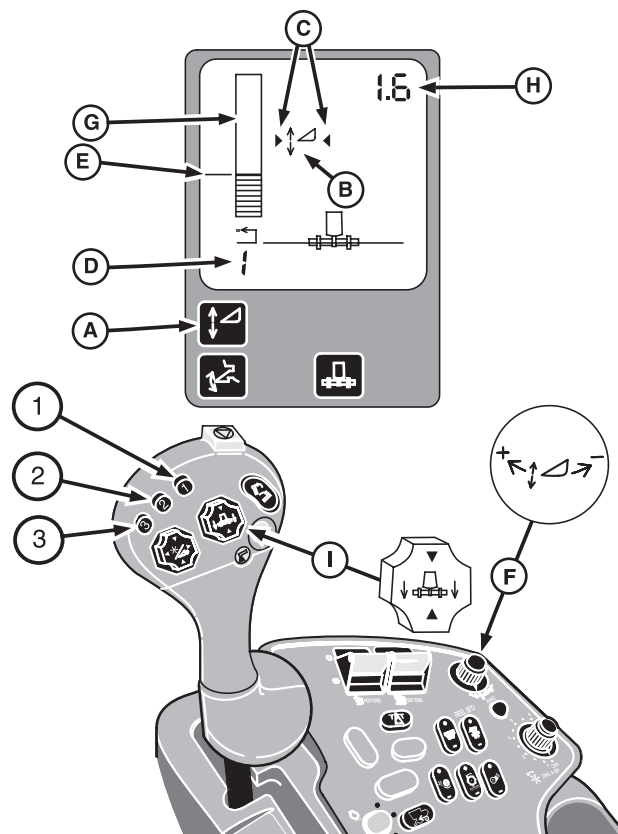
Turning the dial towards the (+) symbol will raise the header. Turning the dial towards the (-) symbol will lower the header.

Bar graph (G) and number display (H) show the position of the header, based on the height sensor on the head.

Manually raising the header height with switch (I) on the multi-function handle will turn off the Header Height Sensing function.

Pressing any of the activation buttons will reactivate the system and the header will move to the selected height.

The Header Height Sensing system can be disabled by pressing switch (A).



- A—Switch
- B—Header Height Sensing Symbol
- C—Arrows
- D—Display Number
- E—Height Setpoint
- F—Height Control Dial
- G—Bar Graph
- H—Number (in inches)
- I—Switch

H58861 -UN-15JUL99

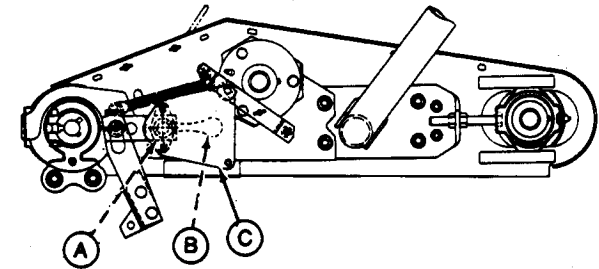
DIAL-A-MATIC™ Operation

DIAL-A-MATIC™ Header Height Control (Optional, 10 And 20 Series Combines)

The belt pickup operated within a 2 in. (51 mm) float range. When the ground level moves the gauge wheels up, actuator arm (A) turns wiper arm (B) in housing (C). The movement of the wiper arm contacts one of five printed circuit pads in the housing.

The pad that is contacted turns on the system for raising or lowering the header (see Housing Adjustment).

- A—Actuator Arm
- B—Wiper Arm
- C—Housing



H37760

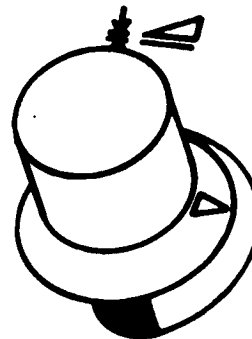
H37760 -UN-25AUG89

DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6035,134 -19-20JUN00-1/1

DIAL-A-MATIC™ Electrical System (10 Series Combines)

The electrical system consists of sensor (located on the header), header wiring harness (located on the header), selector switch (located in the armrest), DIAL-A-MATIC™ card (located in the central electronics box and hydraulic valve (located near the hydraulic stack).



H39380

H39380 -UN-20MAY94

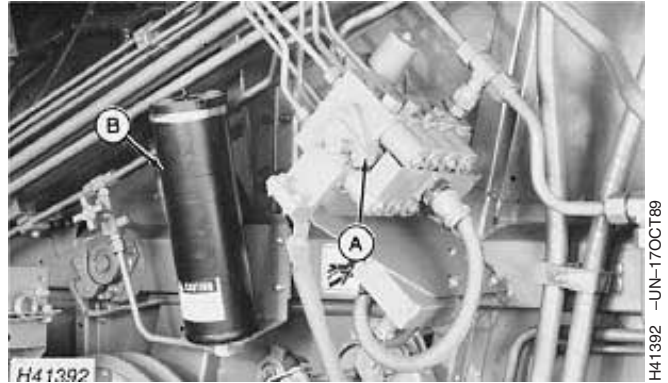
DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6435,77 -19-11JUN99-1/1

DIAL-A-MATIC™ Hydraulic System (10 Series Combines)

When raising the header, the DIAL-A-MATIC™ system activates solenoids on the solenoid control valve (A). Oil flows from the main hydraulic pump, through the DIAL-A-MATIC™ orifice and then to accumulator (B). During normal field operation, when the nitrogen gas pressure equals cylinder pressure, oil flows into header lift cylinders.

A—Solenoid Control Valve
B—Accumulator



DIAL-A-MATIC is a trademark of Deere & Company

AG.OUO6435,78 -19-11JUN99-1/1

Disconnecting DIAL-A-MATIC™ (10 Series Combines)

Disconnect DIAL-A-MATIC™ harness (A) from platform harness and install harness in storage position on left-hand side of feeder house.

A—DIAL-A-MATIC™ Harness



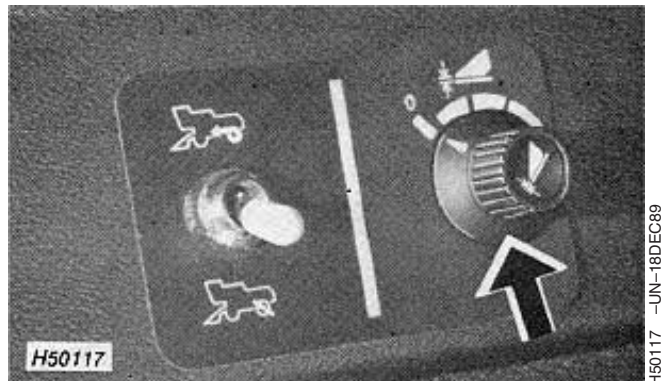
DIAL-A-MATIC is a trademark of Deere & Company

AG.OUO6435,79 -19-11JUN99-1/1

DIAL-A-MATIC™ Electrical System (20 Series Combine)

The electrical system consists of four position control switch located on the instrument panel, and an actuating arm riding on the printed circuit in a housing, a circuit box, an amplifier and connecting harnesses. The electrical system turns on the hydraulic system.

By operating the control switch, the DIAL-A-MATIC™ is turned off or on and set to one of three positions.



6620, 7720 and 8820 Combines

DIAL-A-MATIC is a trademark of Deere & Company

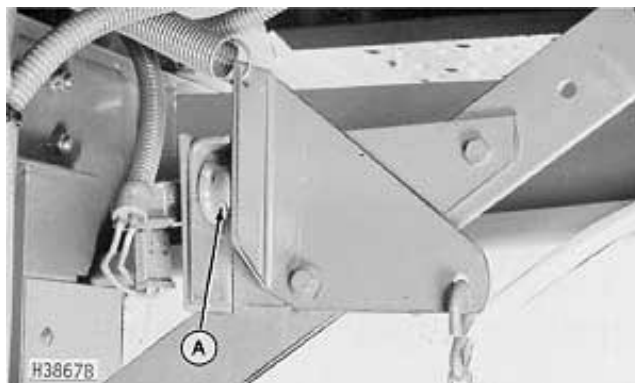
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AG.OUO6435,74 -19-10JUN99-1/2

IMPORTANT: Turn off DIAL-A-MATIC™ when transporting the combine.

The actuating switch (A) is located under the front of the combine. The switch shuts off DIAL-A-MATIC™ when the header is raised about 381 mm (15 in.) above the ground. A chain turns on the switch when the header is lowered.

A—Actuating Switch



Switch Off—4425 Combine

DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6435,74 -19-10JUN99-2/2

DIAL-A-MATIC™ Hydraulic System (20 Series Combines)

The hydraulic system supplies hydraulic oil to header lift cylinders to raise or lower header. The system consists of header lift cylinders, drop rate valve and auto header valve. The hydraulic system is started by the electrical system. Hydraulic oil is supplied from a pressure port in main control valve.

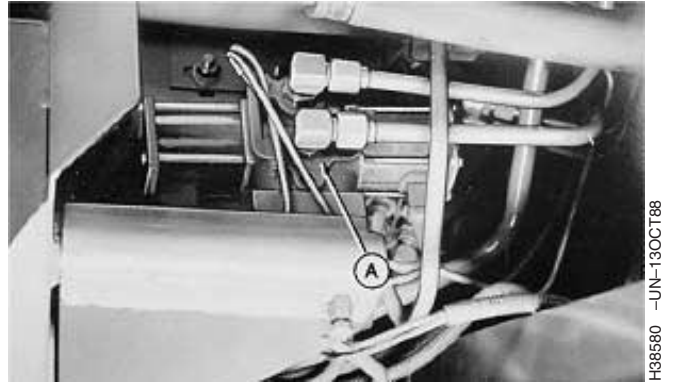
DIAL-A-MATIC is a trademark of Deere & Company

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AG,OUO6435,75 -19-10JUN99-1/4

The auto header valve (A) gets oil from the unloading auger control valve. Oil flowing between the auto header valve and header lift cylinders is directed through the drop rate valve. Return oil is directed back to the main reservoir. When the DIAL-A-MATIC™ is not activated, a check valve in the auto header valve and a lockout poppet in the main hydraulic system control valve, trap oil to support header.

A—Header Valve



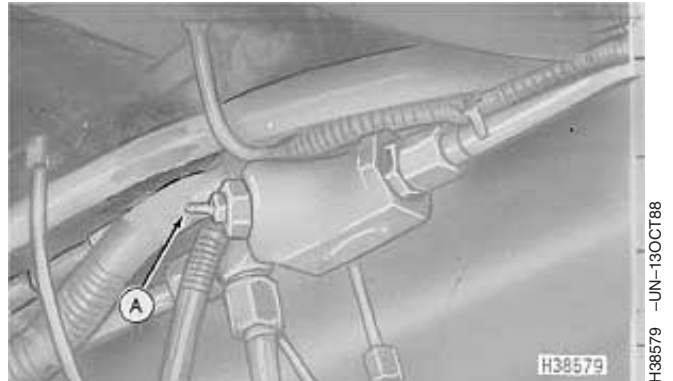
H38580 -UN-13OCT88

DIAL-A-MATIC is a trademark of Deere & Company

AG.OUO6435,75 -19-10JUN99-2/4

The drop rate valve (A) controls pressure oil to header lift cylinders and controls rate of drop of header. Two small orifices in drop rate valve poppet meter oil returning to the reservoir. An adjusting screw changes the size of this orifice, for ground conditions.

A—Drop Rate Valve



H38579 -UN-13OCT88

AG.OUO6435,75 -19-10JUN99-3/4

Location of 4425 drop rate valve is on the upper front right-hand side of separator in back of cross auger drive chains.

A—Drop Rate Valve



H38623 -UN-13OCT88

AG.OUO6435,75 -19-10JUN99-4/4

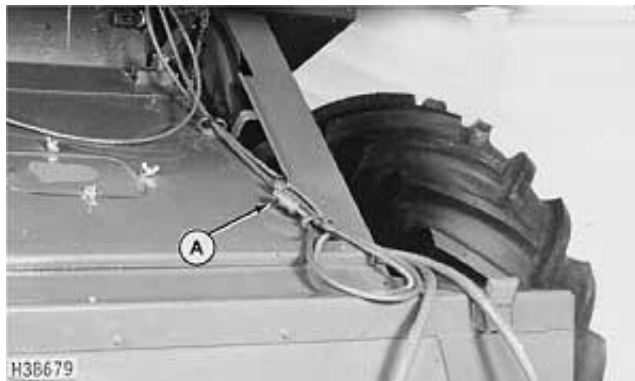
Disconnecting DIAL-A-MATIC™ (20 Series Combines)

Disconnect wiring harness for DIAL-A-MATIC™ when header is removed from combine.

Unscrew connectors. Coil and fasten harness. Cover end (A) with tape or a bag.

When removing feeder house from separator, disconnect wiring harness as shown. Coil harness and store on front of the combine for future use.

A—Harness End

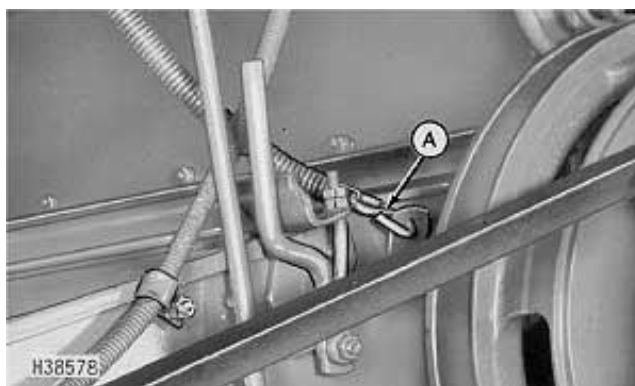


DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6435,76 -19-10JUN99-1/2

Disconnect switch chain by slipping "S" hook (A) out of bracket.

A—"S" Hook



AG,OUO6435,76 -19-10JUN99-2/2

Belt Pickup Adjustments

Service Tires Safely

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

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

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

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

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

Keep belt pickup tires inflated to 8.8 bar (15 psi) air pressure.

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

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



TS952 -UN-12APR90

OUC6035,0001413 -19-08MAY01-1/1

Adjusting Gauge Wheel

To raise gauge wheel, remove cap screw (A) and washer (B) and position spacers (C) on top of yoke bearing, or position spacers (C) below yoke bearing to lower gauge wheel. Replace washer (B) and cap screw (A).

- A—Cap Screw
- B—Washer
- C—Spacers



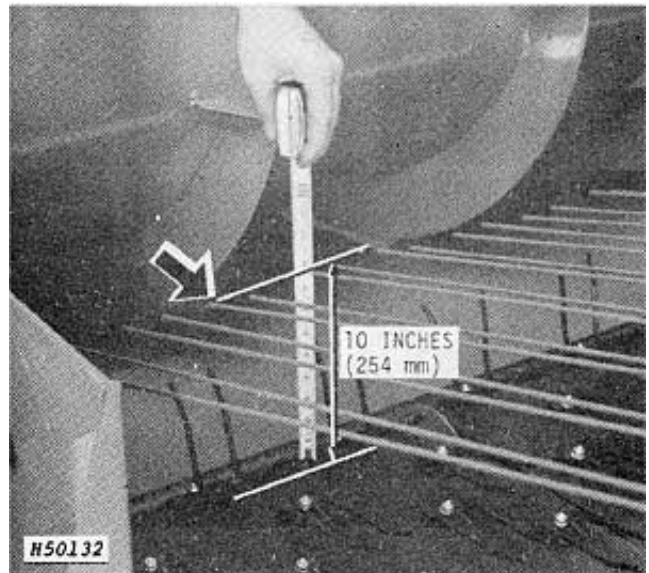
H58947 -UN-20JUL99

AG,OUO6435,63 -19-10JUN99-1/1

Adjusting Windrow Hold-Down

The windrow hold-down (which is free to float) eliminates bunching and overriding by deflecting windrow downward into platform auger.

Hold-down must be adjusted so bottom of fingers are 254 mm (10 in.) from roller. This is important to assure proper feeding under platform auger.



H50132 -UN-02FEB90

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AG,OUO6435,65 -19-10JUN99-1/2

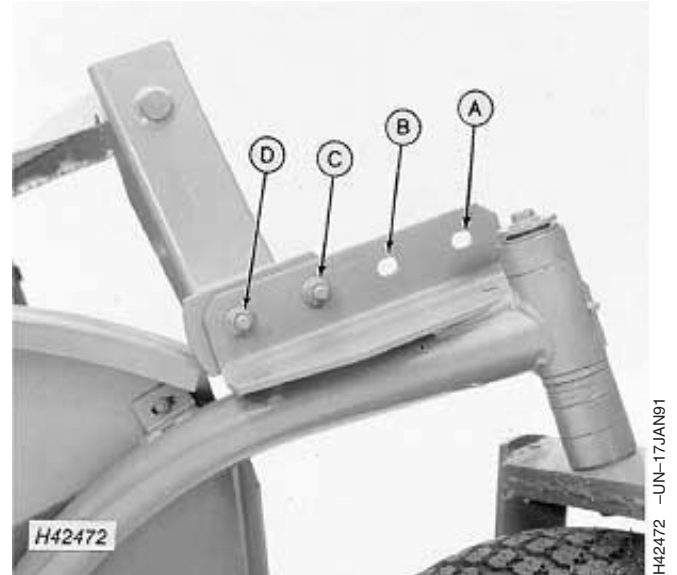
NOTE: Readjust hold-down when pickup is adjusted in or out.

When pickup is in rear position, install hold-down in holes (A) and (B).

When pickup is in mid-position, install hold-down in holes (B) and (C).

When pickup is in outer position, install hold-down in holes (C) and (D).

A-D—Adjusting Holes



AG.OUO6435,65 -19-10JUN99-2/2

Adjusting Auger

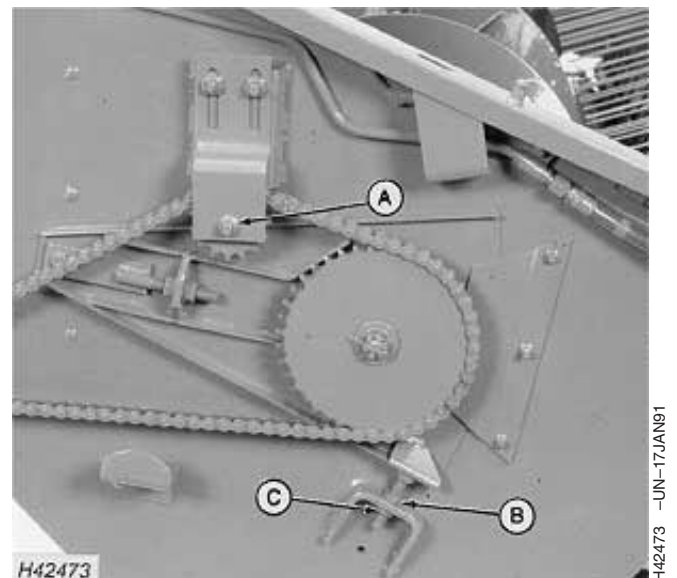
Loosen chain tightener (A).

Adjust auger to 6 mm (1/4 in.) between auger flights and bottom of platform. Loosen nut (B) and tighten nut (C) to move auger down. Loosen nut (C) and tighten nut (B) to move auger up. Tighten nuts (B) and (C).

Tighten chain tightener (A).

IMPORTANT: Pickup drive shaft must be attached to combine before checking chain tension. Chain must deflect 25 mm (1 in.) at 88 N (20 lbs.) of pull at mid span when auger is at bottom of travel.

A—Chain Tensioner
B—Nut
C—Nut



AG.OUO6435,66 -19-10JUN99-1/1

Adjusting Finger Timing

IMPORTANT: Before making any adjustments, raise platform until full weight of platform and reel is supported by the combine feeder house.

Feeding between the platform and feeder house may be improved by advancing the auger finger timing.

Remove nut and bolt (A).

Loosen nuts (B).

Rotate casting (C) counterclockwise to move fingers to minimum of 16 mm (5/8 in.) to floor.

Tighten nuts (B) to specification

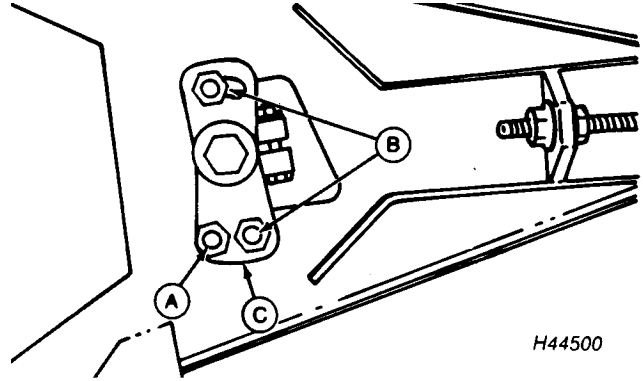
Specification

Nuts (B)—Torque 115 N•m
(85 lb-ft)

IMPORTANT: To avoid damaging floor or fingers:
Maintain a minimum clearance between finger and floor of 16 mm (5/8 in.).

Keep nuts (B) tight.

Rotate auger by hand to check clearances.



A—Nut and Bolt
B—Nuts
C—Casting

H44500 -UN-21MAY92

AG,OUO6435,67 -19-10JUN99-1/1

Adjusting Header Drop Rate

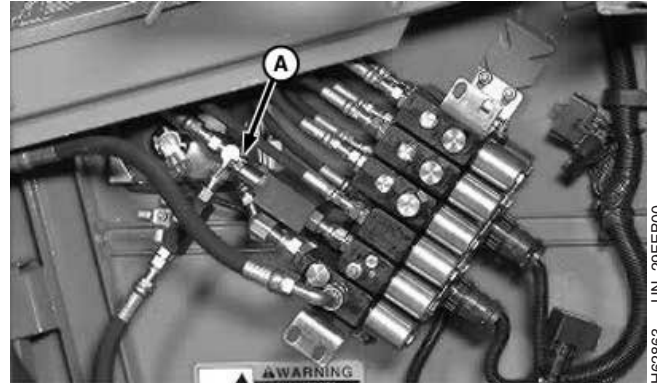
NOTE: Lower header to ground to relieve circuit pressure before adjusting header drop rate.

WITHOUT ACTIVE HEADER CONTROL™: Loosen nut (A) and turn screw for faster drop rate, turn screw in for slower drop rate.

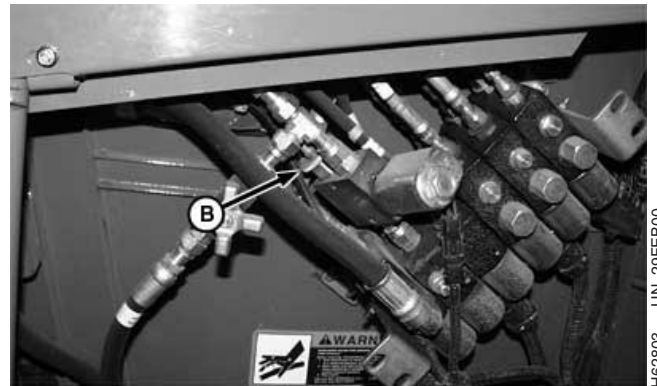
WITH ACTIVE HEADER CONTROL™: Adjust drop rate as described, open accumulator two turns and adjust with knob (B) as needed.

Tighten nut after adjusting.

A—Nut
B—Knob



H62863 -UN-29FEB00



H62803 -UN-29FEB00

Equipped with ACTIVE HEADER CONTROL™

ACTIVE HEADER CONTROL is a trademark of Deere & Company

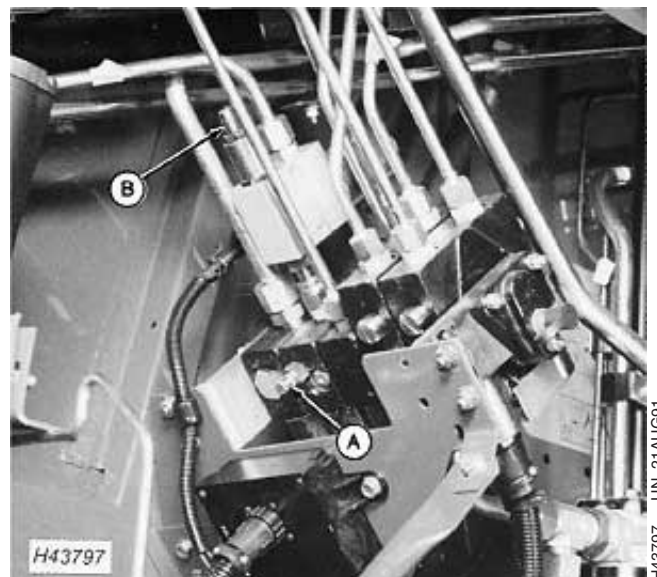
AG,OUO1035,1762 -19-16FEB00-1/1

Adjusting Platform Drop Rate (10 Series Combines)

Loosen nut and turn screw (A) out for faster drop, in for slower drop. Tighten nut after adjustment.

On combines with DIAL-A-MATIC™, adjust drop rate as described above, open accumulator two turns and adjust screw (B) as needed.

A—Screw
B—Screw



H43797 -UN-21AUG91

DIAL-A-MATIC is a trademark of Deere & Company

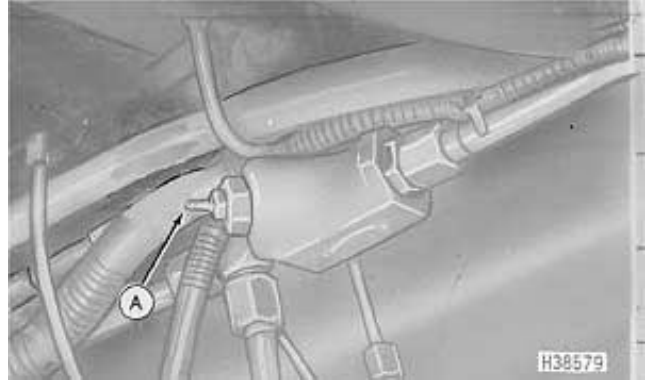
AG,OUO6435,71 -19-10JUN99-1/1

Adjusting Belt Pickup Drop Rate (20 Series Combines)

The drop rate valve controls rate of drop of the belt pickup. On self-propelled combines the valve is located under the operator's platform. The 4425 drop rate valve is on the upper front right-hand side of separator in back of cross auger drive chains. The 7721 drop rate valve is located on front of undercarriage next to hitch tube.

Main control valve drop rate must be adjusted before the DIAL-A-MATIC™ drop rate valve (see combine operator's manual). The main control valve drop rate is not adjustable on 4425 combines. For best results adjust in actual field soil conditions. If drop rate is adjusted on concrete or hard surface it might require readjustment (slower) when in the field.

1. Turn adjusting screw (A) out until the platform "hunts" or cycles up and down. The initial setting of the drop rate valve adjusting screw is eight complete turns out, after screw has been completely turned in.
2. Turn adjusting screw in until platform stops "hunting".
3. Turn adjusting screw in an additional 1/2 turn.



6620-7720-8820 Combines



4425 Combine

A—Adjusting Screw

DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6435,68 -19-10JUN99-1/1

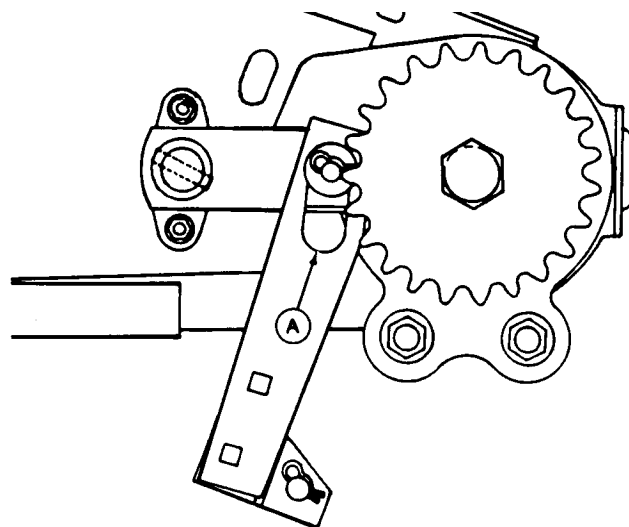
Adjusting Linkage (Active Header Control (AHC)TM)

Before adjusting linkage, belt pickup must be on level ground or lifted with feeder house safety stop down.

If either left-hand or right-hand linkage is not in top of slot (A) loosen two adjusting bolts (B) on right-hand side and relocate linkage to top of slot. Retighten two adjusting bolts (B).

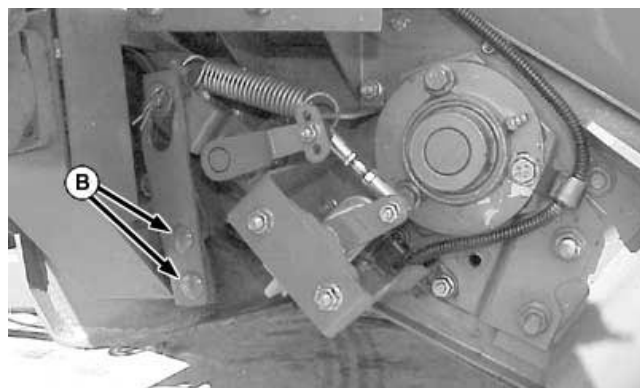
IMPORTANT: Linkage must be adjusted to top of slot on both sides.

A—Slot
B—Carriage Screws



H44499

H44499 -UN-21MAY92



H59070 -UN-28JUL99

Active Header Control is a trademark of Deere & Company

AG,OUO6435,132 -19-28JUL99-1/1

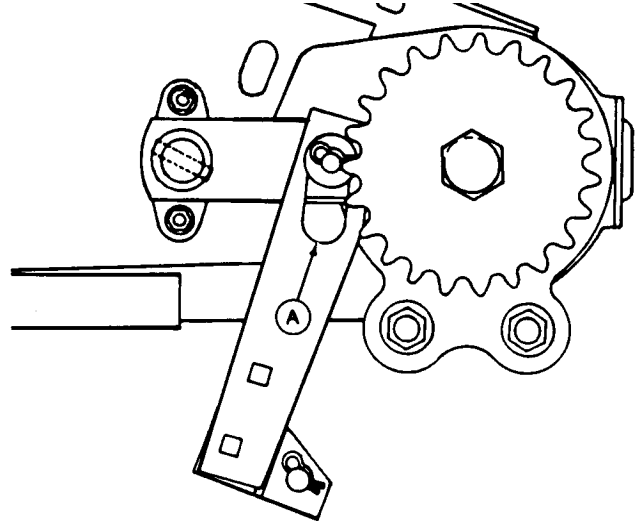
Adjusting Linkage (DIAL-A-MATIC™)

Before adjusting linkage, belt pickup must be on level ground or lifted with feeder house safety stop down.

If either left-hand or right-hand linkage is not in top of slot (A) loosen two adjusting bolts (B) on right-hand side and relocate linkage to top of slot. Retighten two adjusting bolts (B).

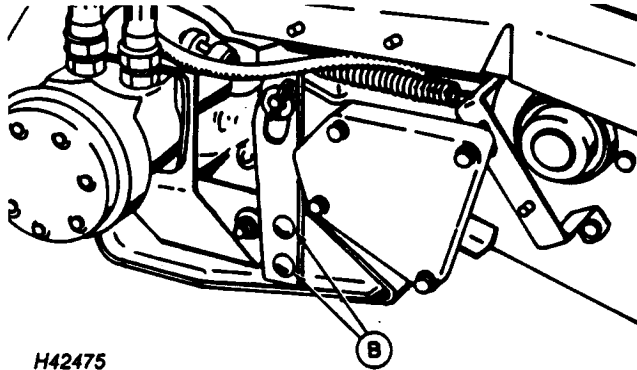
IMPORTANT: Linkage must be adjusted to top of slot on both sides.

A—Slot
B—Carriage Screws



H44499

H44499 -UN-21MAY92



H42475

H42475 -UN-22JAN91

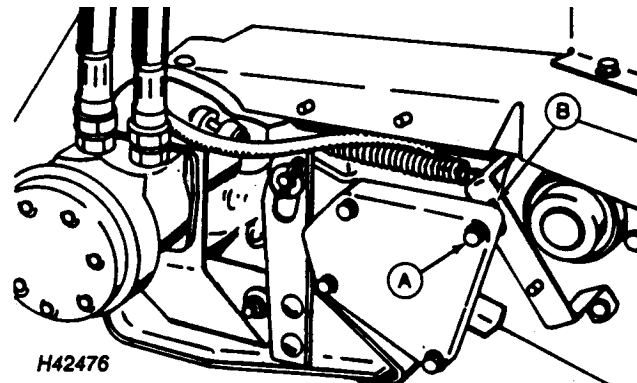
DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6435,69 -19-10JUN99-1/1

Adjusting Housing (DIAL-A-MATIC™)

Loosen nut (A) and adjust housing to the middle of slot (B). This lets the belt pickup operate in a normal crop when cab switch is in second position. For poor windrow conditions, switch must be in first position and for rocky conditions, the switch must be in third position. See Pickup Pitch.

A—Nut
B—Slot



H42476

H42476 -UN-22JAN91

DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6435,73 -19-10JUN99-1/1

Adjusting Actuating Switch (20 Series Combine)

When gauge wheels are over 381 mm (15 in.) above ground, the actuating switch is off, turning off the DIAL-A-MATIC™ system.

Shutting off the system in this way lets the operator turn around into a new windrow or unload, without turning off the control switch on the instrument panel.

When driving into a new windrow, lower the header to 381 mm (15 in.) above ground. This makes the actuating switch go on and the DIAL-A-MATIC™ system is turned on.

One end of chain (B) is attached to the feeder house; the other end is attached to an actuator arm. When the header is lowered, chain (B) pulls the actuator arm away from actuator switch, making it go on. Adjust chain (B) so the switch goes on when header is within 381 mm (15 in.) of ground.

If chain is too long, it will not release actuating switch and DIAL-A-MATIC™ will not operate.

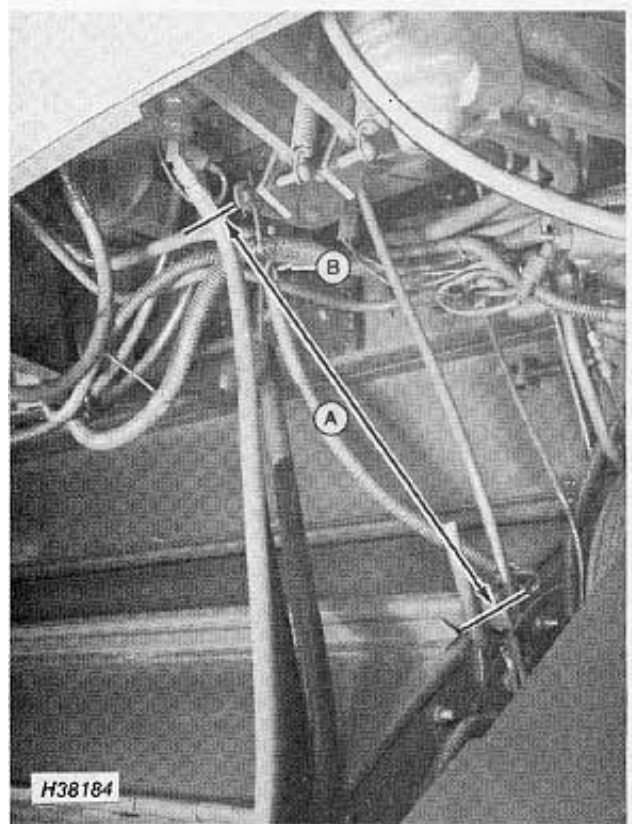
If chain is too short, the header can be raised manually, but will continue to lower when lever is released. If the chain is adjusted too short, system will not shut off unless the control switch is turned to "OFF" position.

(4425 Combine) Adjust chain (A) to 457 mm (18 in.).

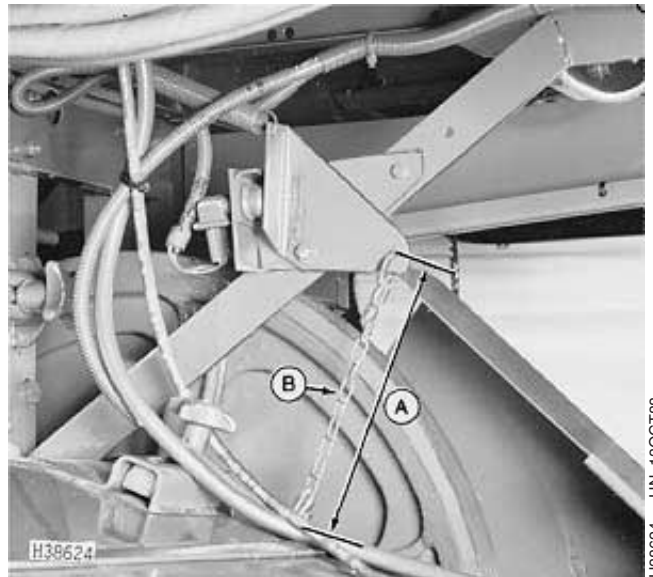
(6620, 7720 and 8820 Combines) Adjust chain (A) to 432 mm (17 in.).

(7721 Combine) Adjust chain (A) to 190 mm (7-1/2 in.).

Measure from attaching point on the feeder house to the hole in pivoting bracket under front of the combine. This includes the "S" link connectors. This length opens the actuating switch about 381 mm (15 in.) 4425, 6620-7720-8820 Combines, 165 mm (7-1/2 in.) 7721 Combine, above ground. Additional adjustment might be necessary.



H38184 -UN-18DEC89



H38624 -UN-13OCT88

A—Chain
B—Chain

Belt Pickup Adjustments

Adjust chain by inserting "S" link in different chain link.

Adjust eyebolt to fine tune between links.

AG,OUO6435,70 -19-10JUN99-2/2

Lubrication

Grease

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

The following grease is recommended:

- John Deere SD POLYUREA GREASE (TY6341)

Other greases may be used if they meet the following:

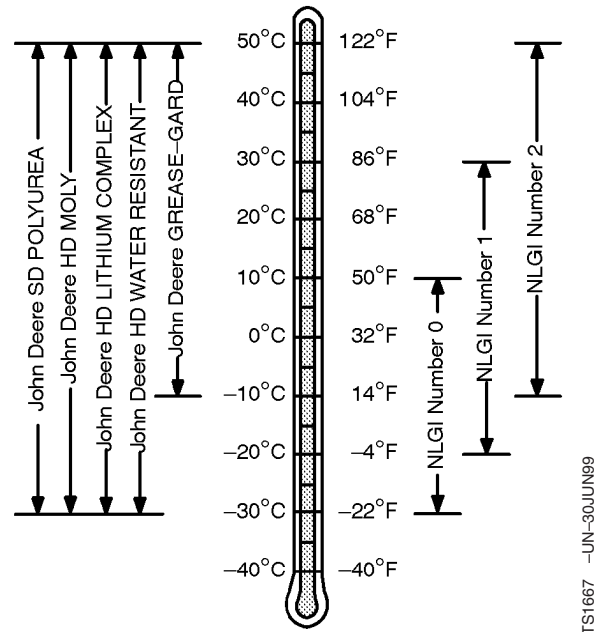
- NLGI Performance Classification GC-LB

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

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

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

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



AG,OUO1035,1175 -19-26OCT99-1/1

Lubricant Storage

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

Use clean containers to handle all lubricants.

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

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

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

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

Lubrication and Maintenance

Lubrication Symbols

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



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

Lubricate with John Deere Multi-Purpose SD Polurea Grease or an equal SAE Multipurpose High Temperature Grease with Extreme Pressure (EP) performance at hours shown on the symbol.

AG,OUO6435,82 -19-11JUN99-1/1

Chains - Every 200 Hours Of Operation



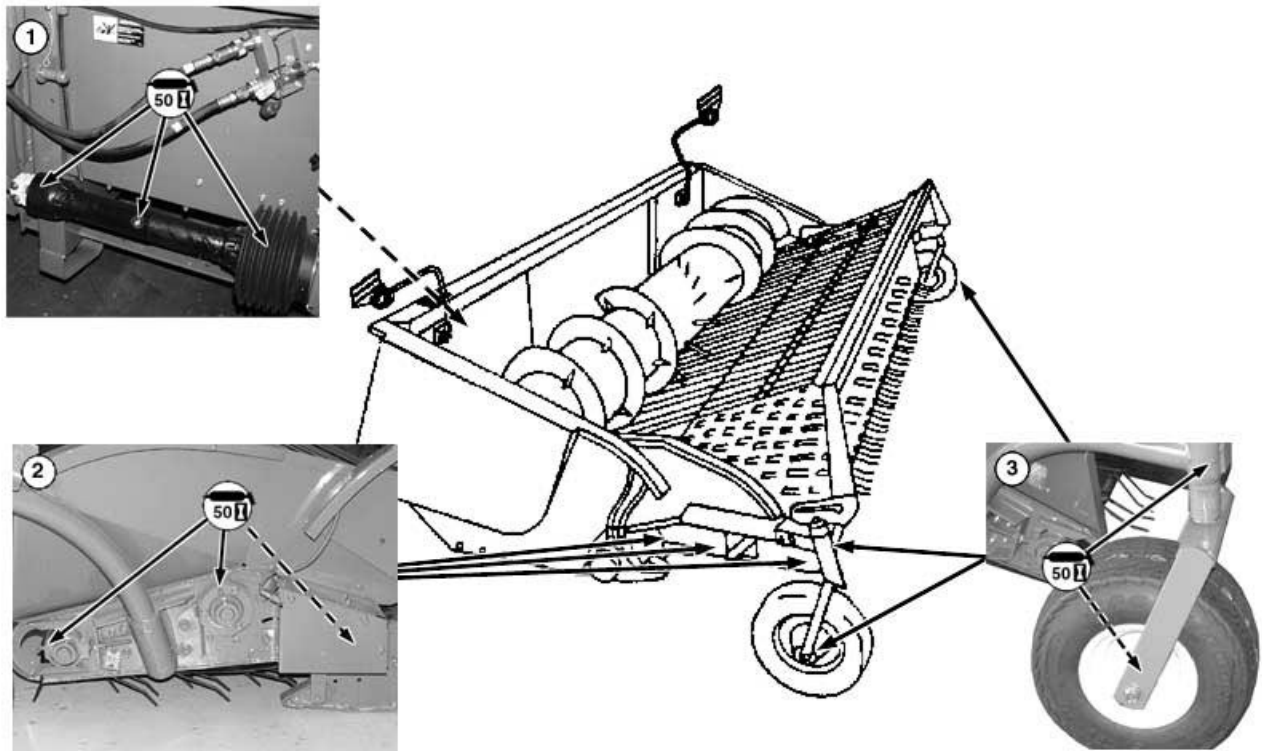
CAUTION: To avoid injury, never lubricate chains with engine running.

Lubricate chains every ten hours of operating with SAE 30 or heavier oil. Run chain before lubricating. A warm chain increases the penetration of oil between pins and bushings. Set parking brake, shut off engine and remove key and lubricate chains.

John Deere TY6240 chain lube is available in an aerosol can.

AG,OUO6435,83 -19-11JUN99-1/1

Every 50 Hours Of Operation



1. Grease Header Drive Shafts. Connect drive shafts to feeder house and grease six fittings.

Rotate shields as needed to access grease fittings.

2. Grease idler roller bearing (both sides).

3. Grease wheel hub and spindle (both sides).

AG,OUO6435,84 -19-11JUN99-1/1

H59053 -UN-02AUG99

Trouble Shooting

Belt Pickup

Majority of belt pickup operating problems can be traced to wrong adjustment. The Chart which follows will help you when problems develop by suggesting a probable cause and recommended remedy.

When you are trying to solve a problem, be certain source is not from some place other than where problem exists.

Symptom	Problem	Solution
Windrow difficult to pick up or strips of crop not being picked up.	Short crop down in the stubble embedded in drill or wheel furrows.	Raise gauge wheels to allow fingers to run closer to ground.
	Gauge wheels not always contacting ground.	Lower platform to allow pickup to operate at less pitch.
	Pickup speed too slow.	Increase pickup speed.
Picking up dirt.	Wrong gauge wheel setting.	Lower gauge wheels to prevent pickup fingers from digging in ground.
	Pitch of pickup too flat.	Raise platform so area between center and drive rollers is parallel with ground.
	Too much pickup speed.	Decrease speed of pickup.
Picking up stones.	Wrong gauge wheel setting.	Lower gauge wheels (1/2 in. [12.5 mm] at a time) to increase finger clearance to ground.
	Too much pickup speed.	Decrease speed of pickup.
	Pitch of pickup too flat.	Raise platform to increase pitch.
Pickup feeds too high on auger.	Too much pitch on pickup.	Lower platform so area between center and rear rollers is parallel with ground.
	Pickup too close to auger.	Move pickup to outer position.
	Hold-down fingers not adjusted right.	Adjust hold-down fingers to provide more compression of crop at rear of pickup.

Trouble Shooting

Symptom	Problem	Solution
	Too much pickup speed.	Decrease speed of pickup.
Windrow rolls ahead of pickup.	Speed of pickup too slow.	Increase speed of pickup.
Material builds up at pickup stripper or builds up between pickup stripper and auger.	Speed of pickup too slow.	Increase speed of pickup.
		Move pickup to inner position.
	Platform auger not adjusted properly.	Adjust platform auger down.
Material bunching on pickup.	Wrong hold-down adjustment.	Raise hold-down to high position.
Platform auger plugging.	Auger not adjusted right.	Increase auger clearance to platform bottom. Check auger fingers.
Material not feeding properly into feeder house.	Adjust auger to platform stripper, auger to platform bottom, or auger flight extensions required.	Short crop feeding conditions.

AG.OUO6435,85 -19-11JUN99-2/2

Active Header Control (AHC)TM

Symptom	Problem	Solution
Active Header Control (AHC)TM Will Not Operate	Manual raise or lower does not work.	See your John Deere dealer.
	Active Header Control (AHC) TM not enabled.	Enable Active Header Control (AHC) TM mode that is desired in corner post display unit.
	Feederhouse to header connector not connected or loose.	Connect properly.
	Header sensor not properly connected or damaged.	Connect or repair sensor.
Active Header Control (AHC)TM Lowers But Will Not Raise.	Defective Active Header Control (AHC) TM relay or Active Header Control (AHC) TM card.	See your John Deere dealer.
Active Header Control (AHC)TM Raises But Will Not Lower	Defective Active Header Control (AHC) TM relay or Active Header Control (AHC) TM card.	See your John Deere dealer.
	Control shaft restricted.	Check for restriction.
	Auto drop rate valve closed.	Adjust in-line valve.
System Cycles or Hunts	Incorrect drop rate adjustment.	Adjust in-line valve.
	Incorrect accumulator setting.	See your combine operator's manual.
System Fails Intermittently After Manually Raising Header Over Obstacle.	System was deactivated.	To reactivate, press activation button in multi-function handle.
Header Raises or Lowers Too Slow or Too Fast.	Incorrect drop rate adjustment.	Adjust valve stack drop rate.
	In-line valve problem.	See your John Deere dealer.

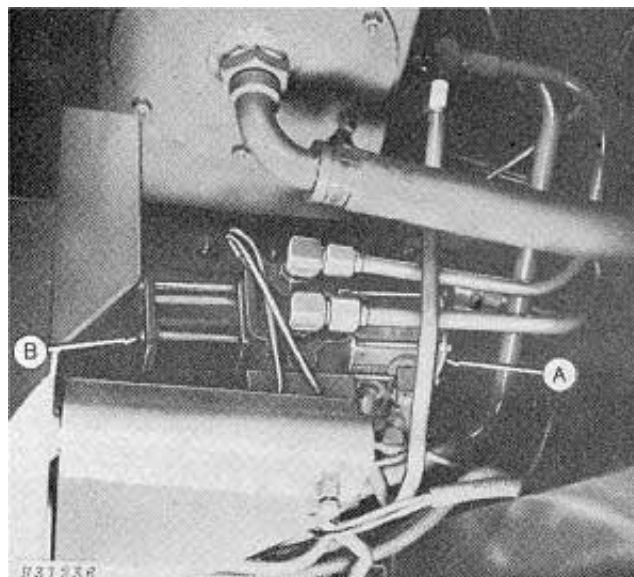
DIAL-A-MATIC™ Header Height Control (20 Series Combines)

The manual header lift control has priority over the DIAL-A-MATIC™. When the switch is in the "OFF" position, the manual header lift control is not affected. When the switch is in the "ON" position, the header can be raised or lowered manually, overriding the DIAL-A-MATIC™ header height control. The DIAL-A-MATIC™ will function with the release of the header lift lever unless the actuating switch is incorrectly adjusted, or if the header is out of DIAL-A-MATIC™ range.

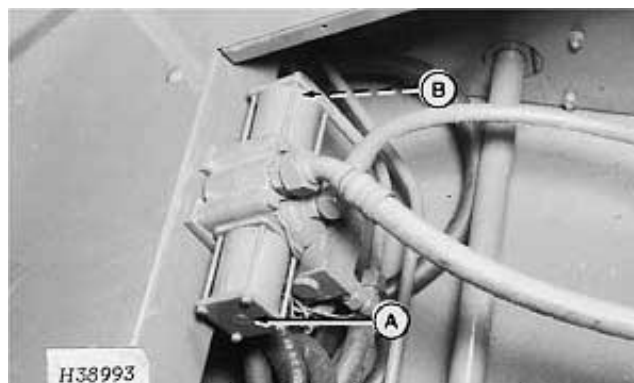
The first step in troubleshooting DIAL-A-MATIC™ problems is to determine if the problem is electrical or hydraulic.

The auto header valve is equipped with two manual push pins, one located in each end of the solenoids. By pressing either push pin, the auto header valve can be manually operated.

To determine if the problem is electrical or hydraulic, place the DIAL-A-MATIC™ switch in the "OFF" position, start engine and move throttle lever to the fast idle position. Press the manual push pin (A) in the "LOWER" solenoid on the auto header valve. The header must lower to the ground. Next, press the manual push pin (B) in the "RAISE" solenoid on the auto header valve. The header must raise. After pressing both push pins, the header raises and lowers correctly, the problem is electrical.



6620, Side-Hill 6620, 7720 and 8820



4425 Combine

A—Manual Push Pin "Lower" Solenoid
B—Manual Push Pin "Raise" Solenoid

DIAL-A-MATIC is a trademark of Deere & Company

AG,OUO6435,86 -19-11JUN99-1/1

DIAL-A-MATIC™ 9400, 9410, 9500, 9510, 9600, And 9610 Combines

Symptom	Problem	Solution
DIAL-A-MATIC™ Will Not Operate	Manual raise or lower does not work.	Manual raise or lower does not work.
	DIAL-A-MATIC™ knob in the "OFF" position.	Set DIAL-A-MATIC™ knob to one of three positions. Momentarily depress header switch in hydro handle to activate system. See your combine operator's manual.
	Feederhouse to header connector not connected or loose.	Connect properly.
	Header sensor not properly connected or damaged.	Connect or repair sensor.
DIAL-A-MATIC™ Lowers But Will Not Raise.	Defective DIAL-A-MATIC™ relay or DIAL-A-MATIC™ card.	See your John Deere dealer.
DIAL-A-MATIC™ Raises But Will Not Lower	Defective DIAL-A-MATIC™ relay or DIAL-A-MATIC™ card.	See your John Deere dealer.
	Control shaft restricted.	Check for restriction.
	Auto drop rate valve closed.	Adjust in-line valve.
System Cycles or Hunts	Incorrect drop rate adjustment.	Adjust in-line valve.
	Incorrect accumulator setting.	See your combine operator's manual.
System Fails Intermittently After Manually Raising Header Over Obstacle.	System was deactivated.	To reactivate, momentarily depress header switch in hydro handle.
Header Raises or Lowers Too Slow or Too Fast.	Incorrect drop rate adjustment.	Incorrect drop rate adjustment.
	In-line valve problem.	See your John Deere dealer.

DIAL-A-MATIC™ 6620,7720 and 8820 Combines

Symptom	Problem	Solution
DIAL-A-MATIC™ Will Not Operate	Defective control switch.	Replace control switch.
	Rubber boot is not correctly positioned on actuating switch.	Position rubber boot in groove in actuating switch plunger.
	Defective actuating switch.	Replace actuating switch.
	Loose connection on ignition switch.	Tighten connection.
	Loose connections on actuating switch.	Tighten connections.
	Actuating switch chain is adjusted too long and will not release switch.	Adjust actuating switch chain.
	Loose connection on auto header valve ground wire.	Tighten connection.
	Main wiring harness on feeder house loose or disconnected.	Connect harness.
DIAL-A-MATIC™ Lowers But Will Not Raise	Loose connections on auto header valve.	Tighten connections.
	No voltage to raise coil.	See your John Deere dealer.
DIAL-A-MATIC™ Raises But Will Not Lower.	Loose connections on auto header valve.	Tighten connections.
	No voltage to lower coil.	See your John Deere dealer.
	Movement of control shaft under header is restricted.	Check shaft for restrictions.
System Cycles Too Much Or "Hunts".	Incorrect adjustment of drop rate valve.	Adjust drop rate valve.
	Incorrect adjustment of accumulator shut off valve or accumulator precharge.	Adjust valve and/or precharge.

Trouble Shooting

Symptom	Problem	Solution
Header Was Raised Manually But Continues To Lower When Lever is Released.	Actuating switch chain is adjusted too short and will not actuate switch.	Adjust actuating switch chain.
	Defective actuating switch.	Replace actuating switch.
System Will Not Shut Off Unless Control Switch is Turned "OFF".	Actuating switch chain is adjusted too short and will not actuate switch.	Adjust actuating switch chain.
	Defective actuating switch.	Replace actuating switch.

AG,OUO6435,88 -19-11JUN99-2/2

Service

Hydraulic Cylinder Safety Stop

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

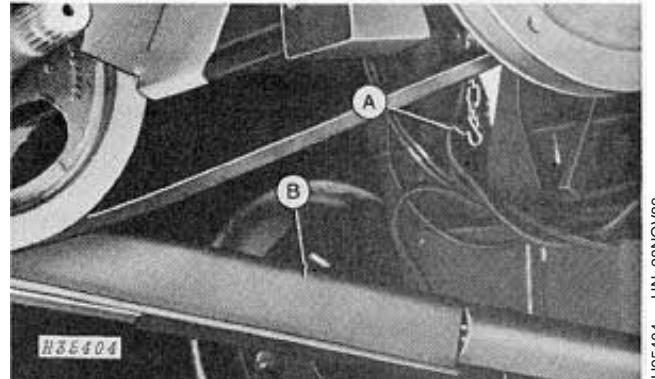
Start engine, raise feeder house and fully extend hydraulic cylinder to place safety stop in safety position.

(20 Series Combines) Disconnect support chain (A) from safety stop (B) and lower safety stop onto the cylinder rod.

(10 Series Combines) Lower safety stop (A) onto hydraulic cylinder rod.

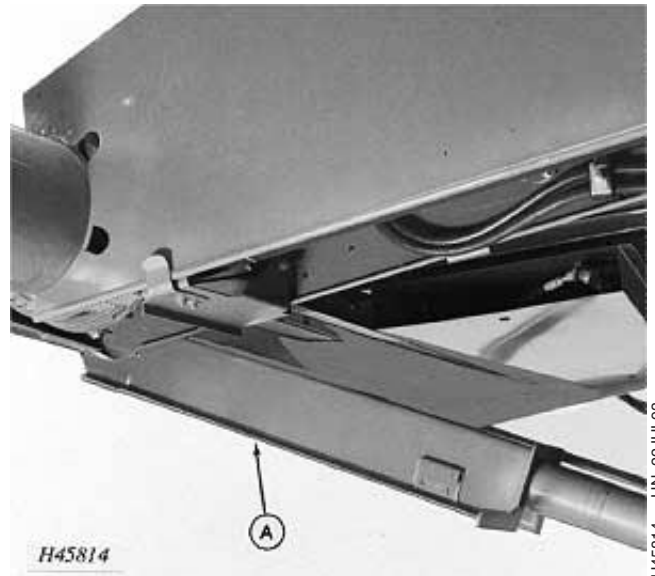
After completing work on the corn head, place safety stop in storage position.

A—Chain
B—Safety Stop



20 Series Combine

H35404 -UN-28NOV89



10 Series Combine

H45814 -UN-22JUL93

AG.OUO6435,89 -19-11JUN99-1/1

Belt Pickup/Pump Belt Adjustments (20 Series Combines)

For 4420 Combines, proceed as follows:

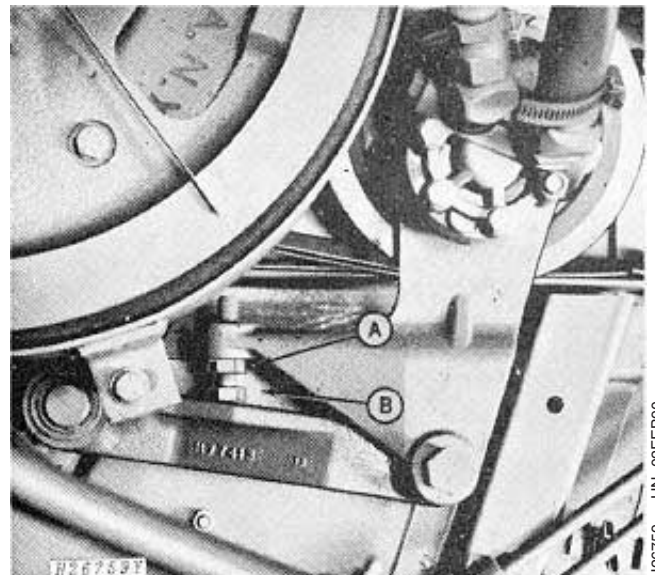
Loosen lock nut (A).

Turn cap screw (B) out against support casting, forcing pump sheave against belt.

Tighten belt until it will operate without slipping.

Tighten lock nut (A).

A—Lock Nut
B—Cap Screw



H26759 -UN-02FEB90

Continued on next page

AG.OUO6435,90 -19-11JUN99-1/2

IMPORTANT: Keep this belt tight at all times.

For 6620, Sidehill 6620, 7720 and 8820 Combines, proceed as follows:

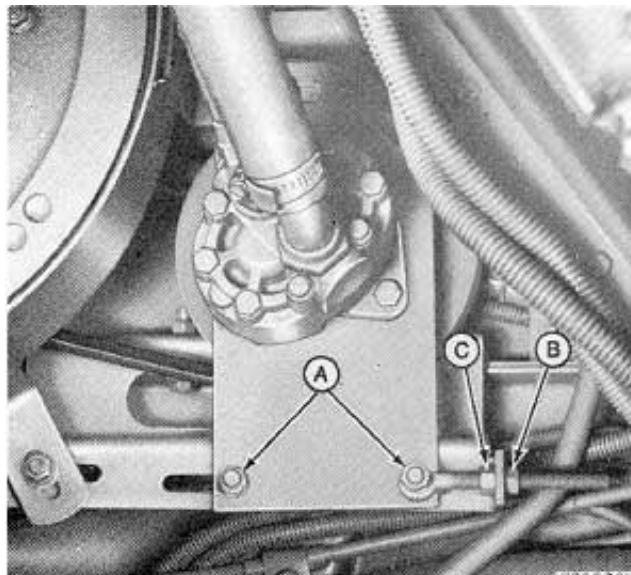
Loosen nuts (A) and nut (B).

Turn nut (C) until belt will operate without slipping.

Tighten nut (B) and nuts (A).

IMPORTANT: Keep this belt tight at all times.

A-D—Nuts



H31265 -UN-02FEB90

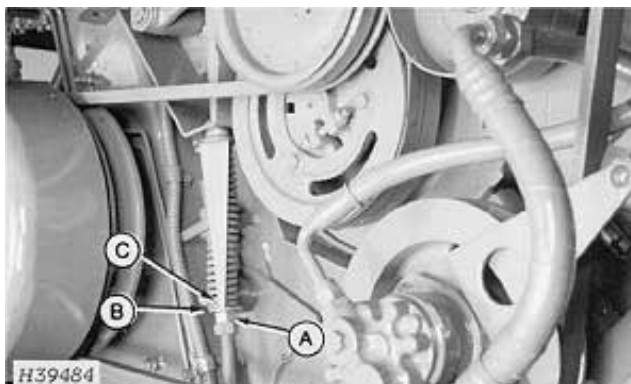
AG,OUO6435,90 -19-11JUN99-2/2

Belt Pickup/ Pump Belt Adjustment (10 Series Combines)

This belt also drives the header.

Tighten nut (A) until washer (B) aligns with the end of gauge (C).

A—Nut
B—Washer
C—Gauge

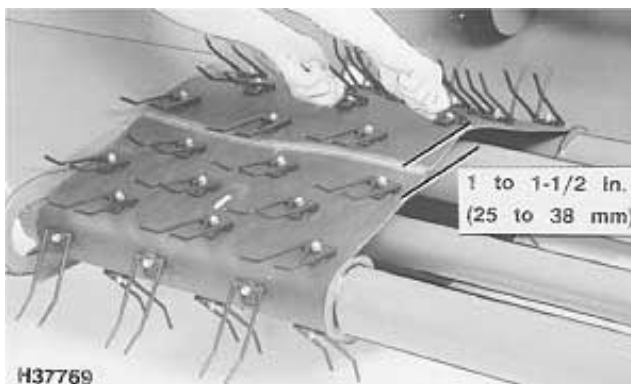


H39484 -UN-11OCT88

AG,OUO6435,91 -19-11JUN99-1/1

Adjusting Tension On Pickup Belts

Pickup belts must have 25 to 38 mm (1 to 1-1/2 in.) free play between center of belt and middle roller. Check dimension by lifting on fingers over center roller.



H37769 -UN-25AUG89

Continued on next page

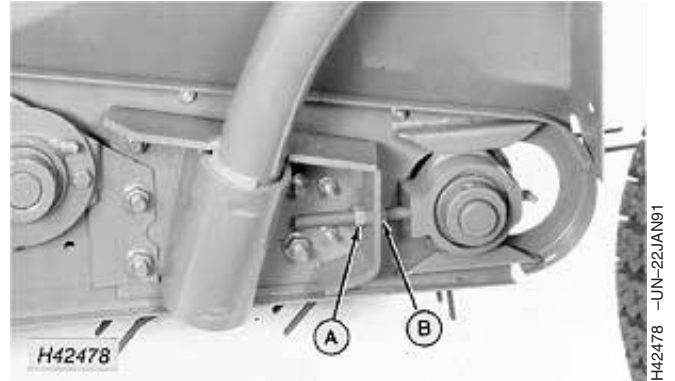
AG,OUO6435,92 -19-11JUN99-1/2

To tighten belts, loosen nuts (A) and tighten nuts (B). Lock nuts (A).

To loosen belts, loosen nuts (B) and tighten nuts (A). Lock nuts (B).

IMPORTANT: Too much tension causes undue wear on pickup belts and other parts. Tighten pickup belts just enough to prevent slipping when belt pickup is operating under normal crop conditions.

A—Nut
B—Lock Nut



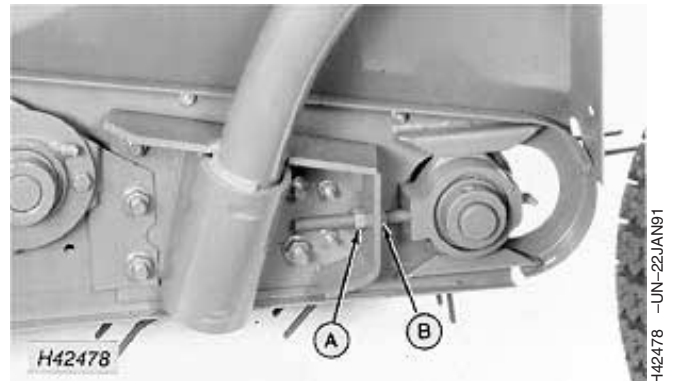
AG.OUO6435,92 -19-11JUN99-2/2

Removing Pickup Belts

Relieve tension by loosening nuts (B) and tightening nuts (A).

Pull lacing pin out of lacings and remove belts.

A—Nut
B—Lock Nut



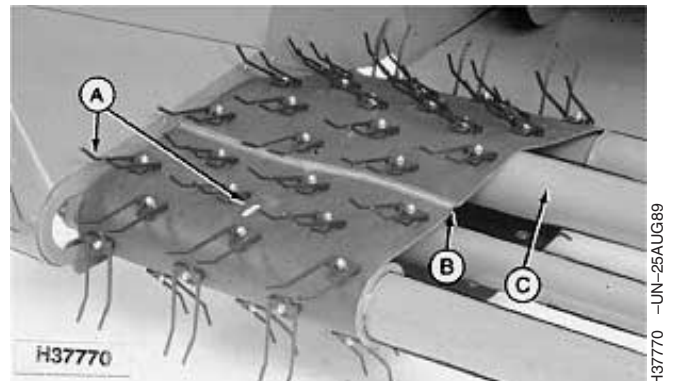
AG.OUO6435,93 -19-11JUN99-1/1

Installing Pickup Belts

Install left- and right-hand belts before installing center belt to keep ends of rollers from spreading. Fingers (A) must point opposite direction of belt travel.

Place belts around rollers so lacings (B) come together over center roller (C).

A—Fingers
B—Lacings
C—Center Roller

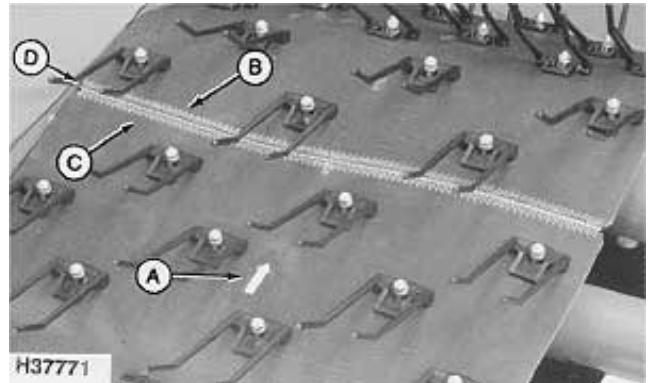


AG.OUO6435,94 -19-11JUN99-1/1

Installing Lacing

Hold lacings together and insert lacing pin (D) then adjust tension of belts.

IMPORTANT: Belt directional arrow (A) must be pointing, as shown, and top lacing (B) is on the outside of bottom lacing (C). Lacing pin (D) must be bent 90 degrees on both ends to prevent pin from falling out.



A—Directional Arrow
B—Top Lacing
C—Bottom Lacing
D—Lacing Pin

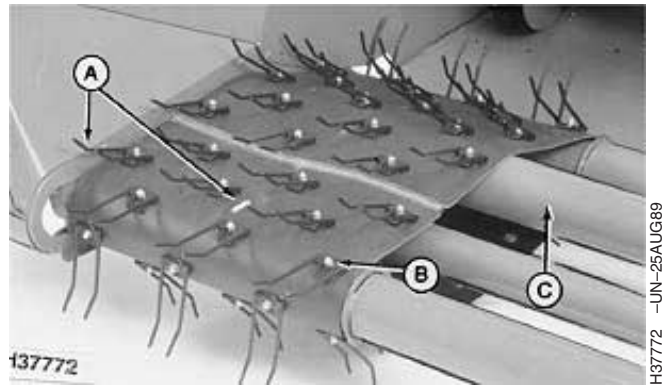
AG,OUO6435,95 -19-11JUN99-1/1

Replacing Pickup Fingers

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

Turn belt pickup until finger that is to be replaced is directly over center roller (C).

Plastic Finger: Remove nut and finger. Install new finger so it points opposite direction of belt travel (A). Secure with lock nut (B). Shoulder of bolt must be seated in base of finger. Tighten nuts to specification.



A—Directional Arrow
B—Lock Nut
C—Center Roller

Specification

Lock Nut—Torque 6 N•m
(5 lb-ft)

AG,OUO6435,96 -19-11JUN99-1/1

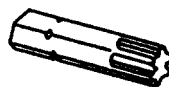
Replacing Auger Fingers and Retainers

1. Use JDC-3 driver to remove two finger guide screws (A) and guide.

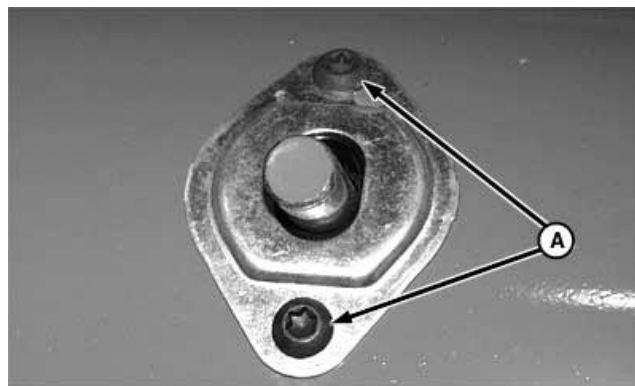
NOTE: Order JDC-3 from your John Deere dealer. Use driver with 1/4 to 3/8-in adapter.

A—Finger Guide Screw

H30649 -UN-23FEB89



H30649



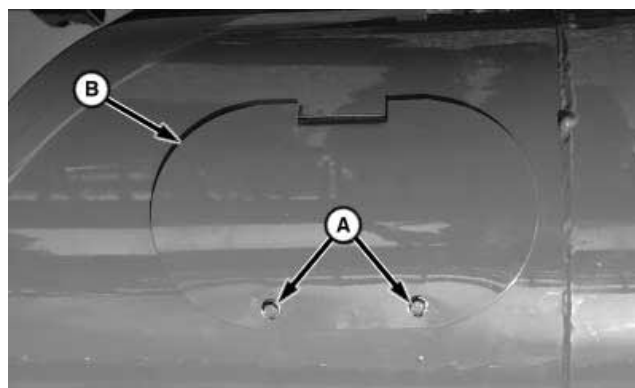
H64393 -UN-06JUL00

OUO6035,0001416 -19-09MAY01-1/5

2. Remove cap screws (A) and access hole covers (B).

A—Cap Screw

B—Access Hole Cover



H64344 -UN-28JUN00

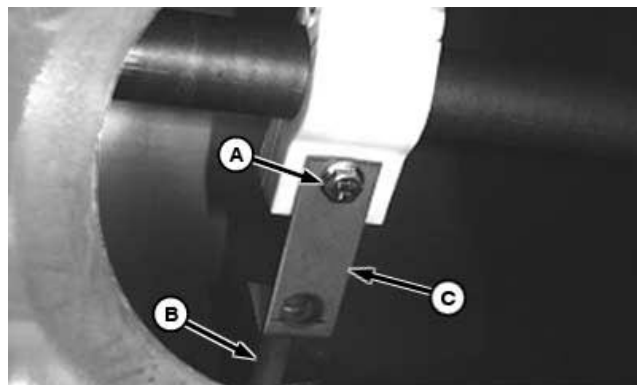
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OUO6035,0001416 -19-09MAY01-2/5

3. Remove cap screw (A), auger finger (B) and retainer (C). Remove broken parts.

IMPORTANT: Replace auger finger retainers (C) when replacing auger fingers (B). Install retainer with open side of bend facing direction of auger rotation (see illustration).

4. Install new parts and tighten cap screw to specification.

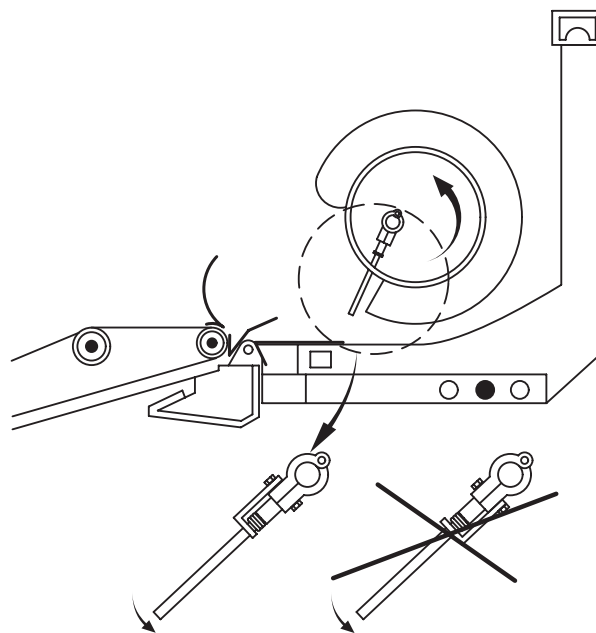


H65291 -UN-14NOV00

Specification

Cap Screw—Torque 18 N•m
(13 lb-ft)

A—Cap Screw
B—Auger Finger
C—Retainer

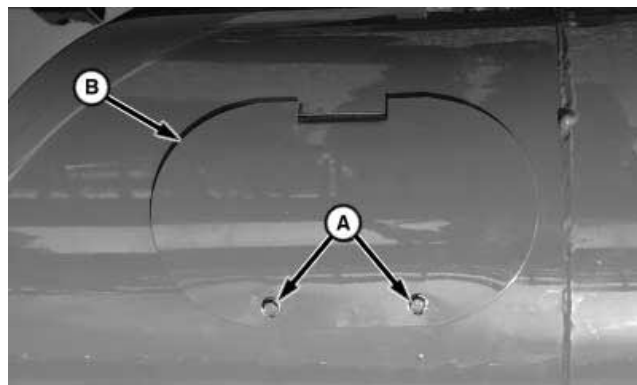


H67886 -UN-09MAY01

OUO6035,0001416 -19-09MAY01-3/5

5. Install access cover (B) and retain with cap screws (A).

A—Cap Screw
B—Access Hole Cover



H64344 -UN-28JUN00

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OUO6035,0001416 -19-09MAY01-4/5

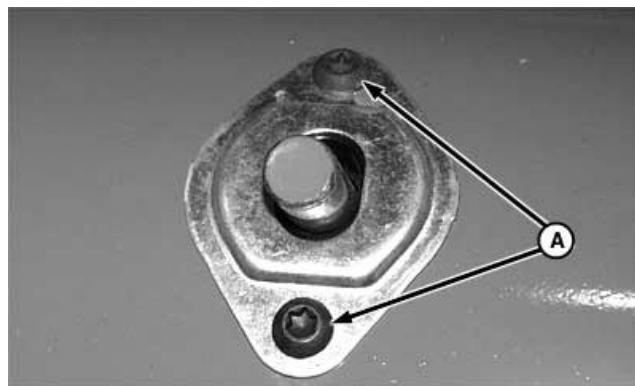
6. Install guide and retain with auger finger guide screws (A).

H30649 -UN-23FEB89



H30649

A—Finger Guide Screw



H64393 -UN-06JUL00

OUO6035,0001416 -19-09MAY01-5/5

Header Warning Light Bulb Replacement

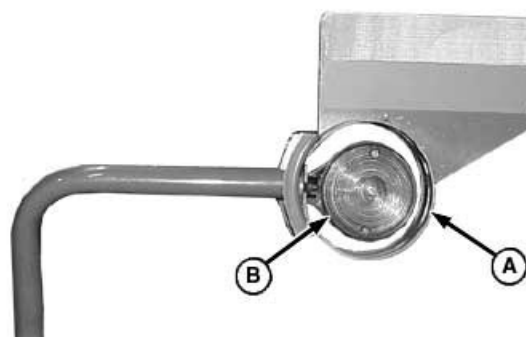
Insert a flat-blade screwdriver through slot in shield (A).

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

Push bulb in and turn to remove.

Install new bulb.

Press lens back onto light housing.



H57822 -UN-02JUN99

A—Shield
B—Lens

900CP,SE,U97 -19-18AUG97-1/1

Storage

End Of Season Service

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

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

Lubricate platform. Grease threads on adjusting bolts. Release spring tension on slip clutch and apply a coating of grease to slip clutch washers.

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

Paint all parts from which paint was worn.

If possible, shelter pickup platform in a dry place.



CAUTION: Support pickup platform with either the hydraulic cylinder safety stop or with blocks, or lower it to ground level.

AG,OUO6435,100 -19-11JUN99-1/1

Beginning Of Season

Clean pickup platform thoroughly.

Replace or adjust belts and check tension.

Adjust chains to proper tension.

Clean grease from thrust washers of slip clutch. Grease bore of slip clutch after cleaning. Adjust spring tension on slip clutch and check torque on nuts.

Lubricate pickup platform completely.

Go over complete pickup platform and see that all bolts are tight and cotter pins are spread.

Check for hot bearings or looseness. Slip clutch must operate freely.

Review your operator's manual.

AG.OUO6435,101 -19-11JUN99-1/1

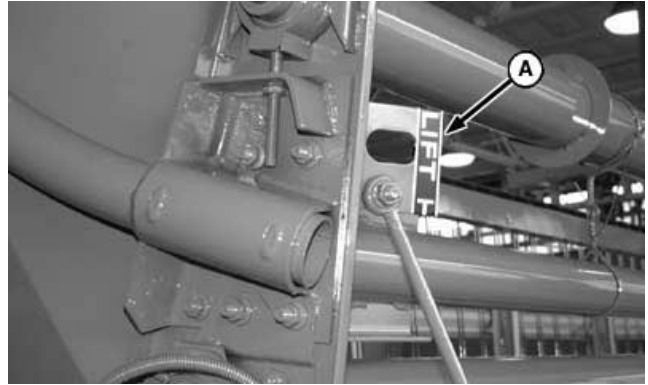
Assembly and Installation

Assembly and Installation

IMPORTANT: Use a lifting device with a minimum capacity of 2721 kg (6000 lb).

Fasten a chain to lifting brackets (A) (both sides) and lift head from trailer.

A—Lift Bracket



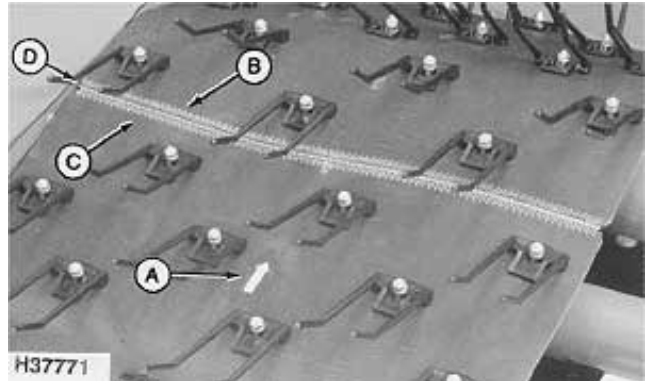
AG,OUO6435,102 -19-11JUN99-1/9

IMPORTANT: Make sure to put a 90 degree bend in pin on each end to prevent pin from falling out.

With pickup standing on the shipping stand, install center belts.

The directional arrow (A) on belts should point toward the auger if head were laying down.

Align top lace (B) to bottom lace (C) and insert lace pin (D).



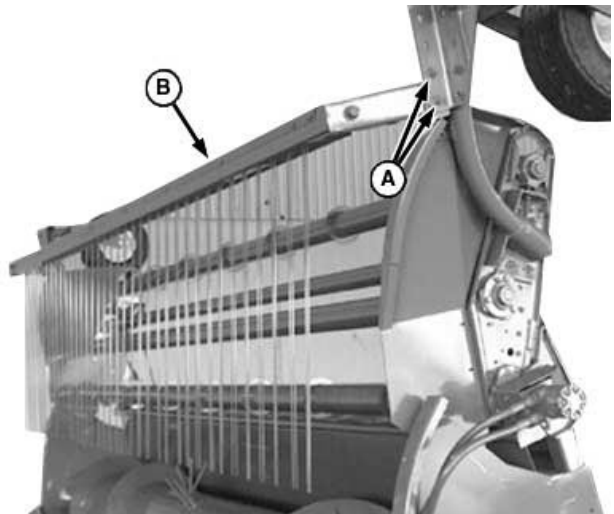
A—Directional Arrow
B—Top Lace
C—Bottom Lace
D—Lace Pin

AG,OUO6435,102 -19-11JUN99-2/9

CAUTION: Use suitable lifting device to aid in removal of hold down.

Remove cap screws (A) (both sides) and windrow hold down (B).

A—Cap Screws
B—Hold Down



Continued on next page

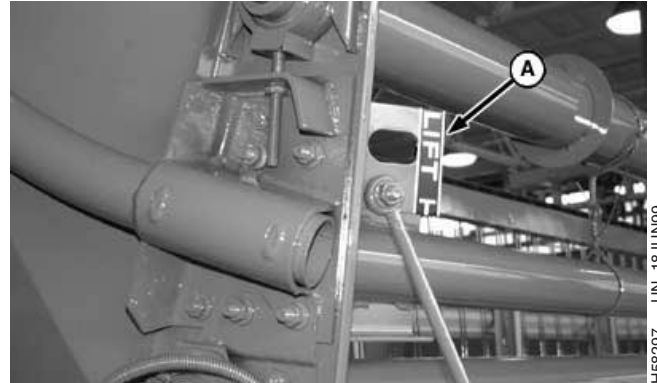
AG,OUO6435,102 -19-11JUN99-3/9

IMPORTANT: Use a lifting device with a minimum capacity of 2721 kg (6000 lb).

Fasten a chain to lifting brackets (A) (both sides) and snug chain.

Slowly backup (pulling head over) while letting head down.

A—Lift Bracket

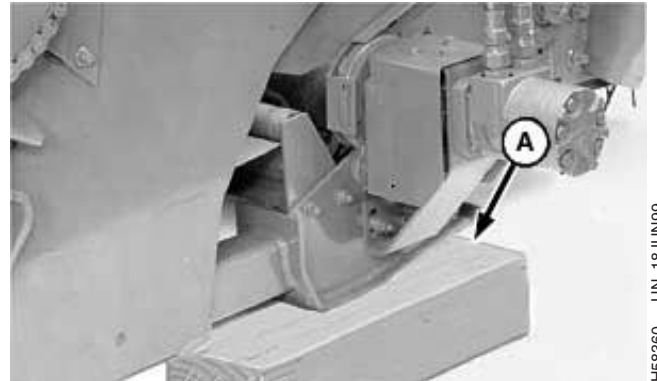


H58297 -UN-18JUN99

AG,OUO6435,102 -19-11JUN99-4/9

NOTE: Before resting head all the way down, place a 4 x 4 (A) under the main frame directly under the hydraulic motor (both sides).

A—4 x 4



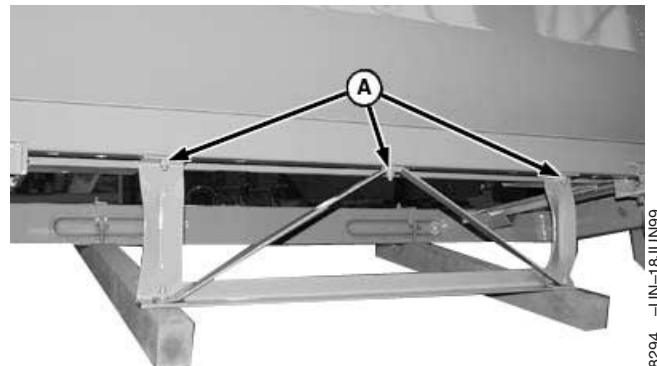
H58360 -UN-18JUN99

AG,OUO6435,102 -19-11JUN99-5/9

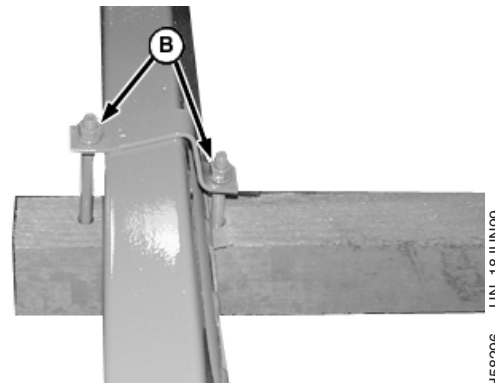
Remove cap screws (A) and (B) (both sides) and discard shipping stand.

A—Cap Screws

B—Cap screws



H58294 -UN-18JUN99



H58296 -UN-18JUN99

Continued on next page

AG,OUO6435,102 -19-11JUN99-6/9

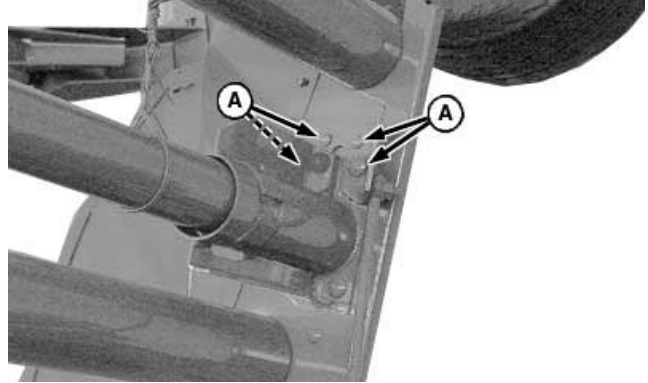
Unhook chain, remove cap screws (A) and lifting bracket, reinstall cap screws after bracket is removed.

Remove nuts (B) from lifting rod (C) and remove lifting bracket assembly.

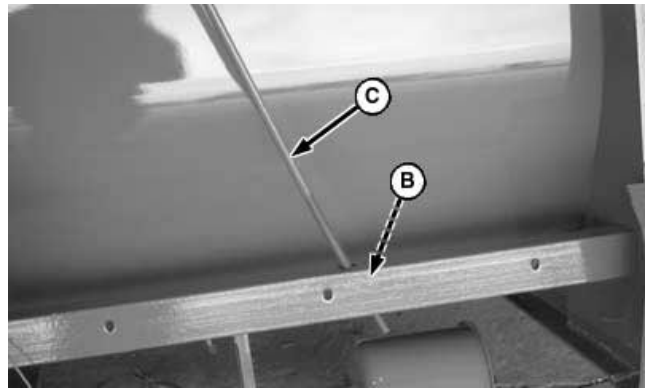
Install the outer pickup belts and adjust belt tension.

Using suitable lifting device, install windrow hold down and retain with previously removed hardware

- A—Cap Screws
- B—Nut
- C—Lifting Rod



H58293 -UN-04AUG99



H58359 -UN-18JUN99

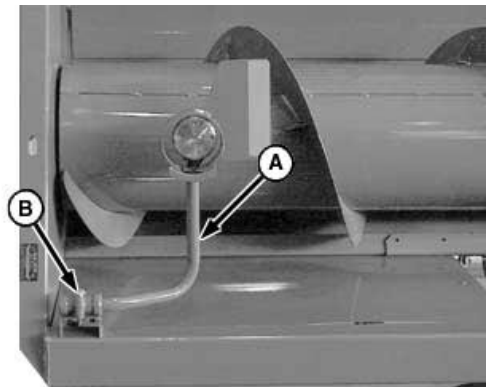
AG,OUO6435,102 -19-11JUN99-7/9

The marker lights (A) are mounted horizontally and on opposite sides for shipping purposes.

Remove flange screws (B) and light (A) on both sides.

Move lights to opposite sides and reinstall in vertical position.

- A—Marker Light
- B—Flange Screw



H58295 -UN-04AUG99

Continued on next page

AG,OUO6435,102 -19-11JUN99-8/9

Remove nuts (A) and remove lens assembly.

Feed header harness thru the marker tube (C).

Connect header harness (B) to light harness (D).

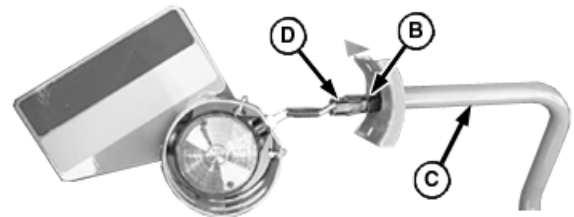
Reinstall lens assembly to marker tube.

Place harness ground (E) under marker light mount (F).

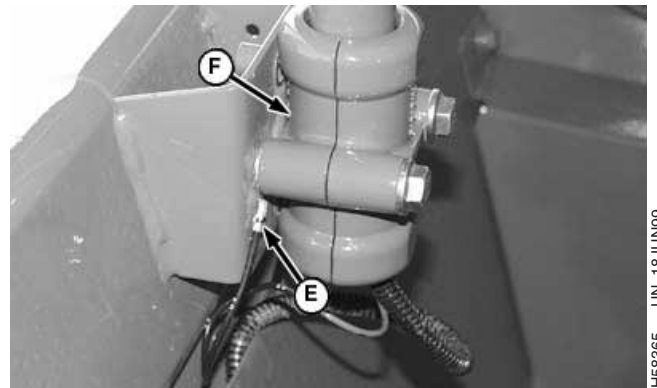
- A—Nuts
- B—Header Harness
- C—Marker Tube
- D—Light Harness
- E—Header Harness Ground
- F—Marker Light Mount



H58364 -UN-02AUG99



H58366 -UN-18JUN99



H58365 -UN-18JUN99

Specifications

Platform Model **914**
Pickup Widths: 2794, 3353, 3912 mm (110, 132, 154 in.)
Platform Height Control Hydraulic

Pickup Belts:

Width of belts 559 mm (22 in.)
Number of belts per Pickup
2794 mm (110 in.) 5
3353 mm (132 in.) 6
3912 mm (154 in.) 7
Operating speed of belts 16—145 m/min. (53—475 ft./min.)
Number of rollers 3

Vari-Belt Feeder House Speeds

6620—7720 (-610000) 460-470 RPM.
6620, 7720, 8820 (610001-) 490-500 RPM.
9400, 9500, 9600 520-785 RPM.
9410, 9510, 9610 520-785 RPM
9450, 9550, 9650 520-785 RPM
9650 STS, 9750 STS 520-785 RPM
Pickup Carriage Adjustments:
Fore-and-aft Through 203 mm (8 in.) range
Extension 0, 102, 203 mm (0, 4, 8 in.)
(Pickup Platforms and 200 Series Platforms)

Pickup Fingers:

Type Plastic
Number of fingers per belt 60

Auger

Float range 38 mm (1-1/2 in.)
Diameter 610 mm (24 in.)
Auger Fingers
.. Heavy-duty, round, 15.9 mm (5/8 in.) diameter with breakaway notch
Number of auger fingers 17
Auger finger pattern Spiral, retracting
Finger reach 152 mm (6 in.)
Operating speed 169 rpm.

Tires

Pressure 1.03 bar (15 psi.)

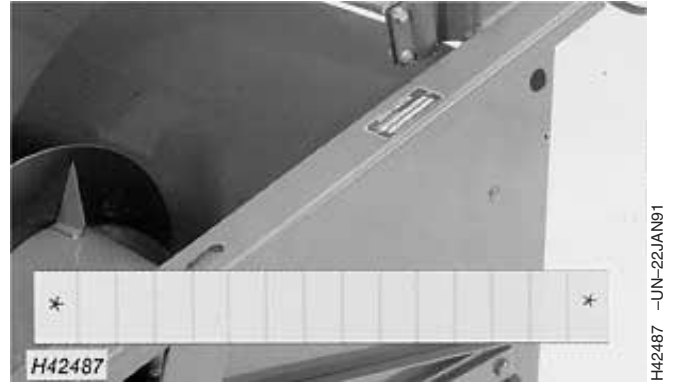
Approximate Shipping Weight

(Includes shipping skid)
914 Pickup Platform 476 kg (1050 lbs.)
*110 in. Belt Pickup 267 kg (588 lbs.)
*132 in. Belt Pickup 364 kg (803 lbs.)
*154 in. Belt Pickup 388 kg (855 lbs.)

Pickup Platform Serial Number

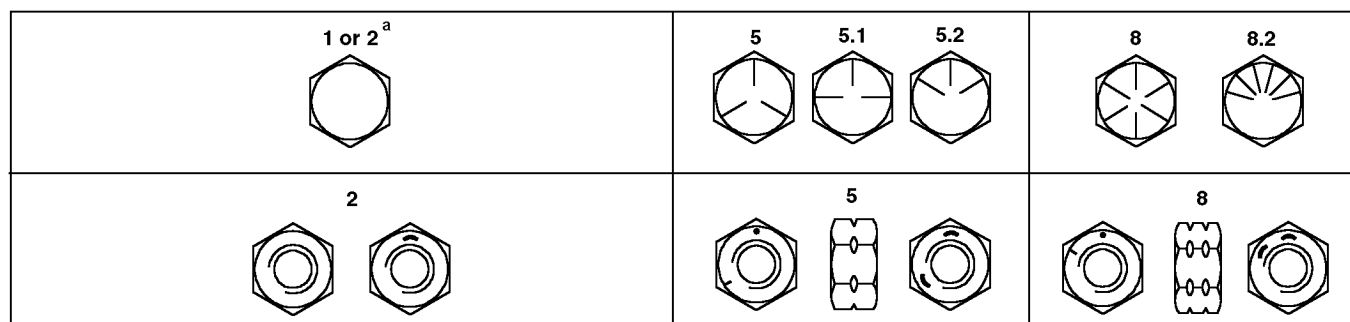
The platform serial number is on a plate located on top, left-hand end rail of platform.

When ordering parts, always bring the serial number as shown on the serial number plate. This will help your John Deere dealer in giving you fast service.



AG,OUO6435,111 -19-15JUN99-1/1

Unified Inch Bolt and Cap Screw Torque Values



Top, SAE Grade and Head Markings; Bottom, SAE Grade and Nut Markings

Size	Grade 1 (No Mark)		Grade 2 ^a (No Mark)		Grade 5, 5.1 or 5.2		Grade 8 or 8.2	
	Lubricated ^b N•m(lb-ft)	Dry ^c N•m(lb-ft)	Lubricated ^b N•m(lb-ft)	Dry ^c N•m(lb-ft)	Lubricated ^b N•m(lb-ft)	Dry ^c N•m(lb-ft)	Lubricated ^b N•m(lb-ft)	Dry ^c N•m(lb-ft)
1/4	3.8 (2.8)	4.7 (3.5)	6 (4.4)	7.5 (5.5)	9.5 (7)	12 (9)	13.5 (10)	17 (12.5)
5/16	7.7 (5.7)	9.8 (7.2)	12 (9)	15.5 (11.5)	19.5 (14.5)	25 (18.5)	28 (20.5)	35 (26)
3/8	13.5 (10)	17.5 (13)	22 (16)	27.5 (20)	35 (26)	44 (32.5)	49 (36)	63 (46)
7/16	22 (16)	28 (20.5)	35 (26)	44 (32.5)	56 (41)	70 (52)	80 (59)	100 (74)
1/2	34 (25)	42 (31)	53 (39)	67 (49)	85 (63)	110 (80)	120 (88)	155 (115)
9/16	48 (35.5)	60 (45)	76 (56)	95 (70)	125 (92)	155 (115)	175 (130)	220 (165)
5/8	67 (49)	85 (63)	105 (77)	135 (100)	170 (125)	215 (160)	240 (175)	305 (225)
3/4	120 (88)	150 (110)	190 (140)	240 (175)	300 (220)	380 (280)	425 (315)	540 (400)
7/8	190 (140)	240 (175)	190 (140)	240 (175)	490 (360)	615 (455)	690 (510)	870 (640)
1	285 (210)	360 (265)	285 (210)	360 (265)	730 (540)	920 (680)	1030 (760)	1300 (960)
1-1/8	400 (300)	510 (375)	400 (300)	510 (375)	910 (670)	1150 (850)	1450 (1075)	1850 (1350)
1-1/4	570 (420)	725 (535)	570 (420)	725 (535)	1280 (945)	1630 (1200)	2050 (1500)	2600 (1920)
1-3/8	750 (550)	950 (700)	750 (550)	950 (700)	1700 (1250)	2140 (1580)	2700 (2000)	3400 (2500)
1-1/2	990 (730)	1250 (930)	990 (730)	1250 (930)	2250 (1650)	2850 (2100)	3600 (2650)	4550 (3350)

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

^b "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.

^c "Dry" means plain or zinc plated without any lubrication.

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

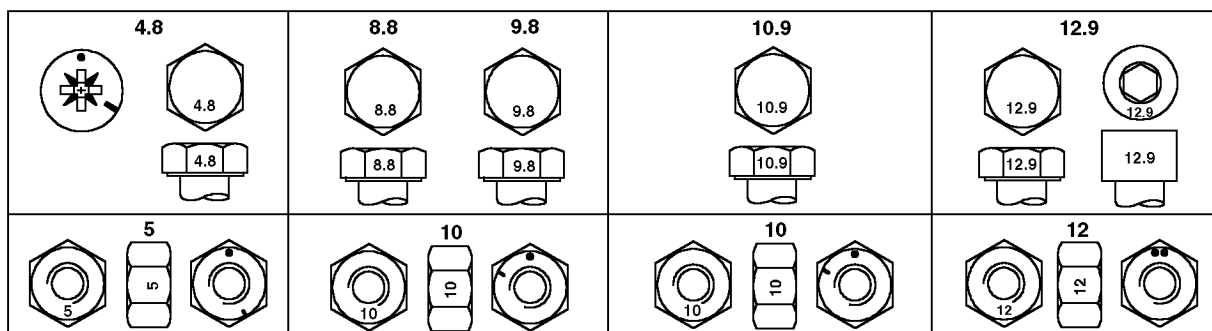
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

Make sure fastener threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

Metric Bolt and Cap Screw Torque Values



Top, Property Class and Head Markings; Bottom, Property Class and Nut Markings

	Class 4.8		Class 8.8 or 9.8		Class 10.9		Class 12.9	
Size	Lubricated ^a N•m(lb-ft)	Dry ^b N•m(lb-ft)	Lubricated ^a N•m(lb-ft)	Dry ^b N•m(lb-ft)	Lubricated ^a N•m(lb-ft)	Dry ^b N•m(lb-ft)	Lubricated ^a N•m(lb-ft)	Dry ^b N•m(lb-ft)
M6	4.7 (3.5)	6 (4.4)	9 (6.6)	11.5 (8.5)	13 (9.5)	16.5 (12.2)	15.5 (11.5)	19.5 (14.5)
M8	11.5 (8.5)	14.5 (10.7)	22 (16)	28 (20.5)	32 (23.5)	40 (29.5)	37 (27.5)	47 (35)
M10	23 (17)	29 (21)	43 (32)	55 (40)	63 (46)	80 (59)	75 (55)	95 (70)
M12	40 (29.5)	50 (37)	75 (55)	95 (70)	110 (80)	140 (105)	130 (95)	165 (120)
M14	63 (46)	80 (59)	120 (88)	150 (110)	175 (130)	220 (165)	205 (150)	260 (190)
M16	100 (74)	125 (92)	190 (140)	240 (175)	275 (200)	350 (255)	320 (235)	400 (300)
M18	135 (100)	170 (125)	265 (195)	330 (245)	375 (275)	475 (350)	440 (325)	560 (410)
M20	190 (140)	245 (180)	375 (275)	475 (350)	530 (390)	675 (500)	625 (460)	790 (580)
M22	265 (195)	330 (245)	510 (375)	650 (480)	725 (535)	920 (680)	850 (625)	1080 (800)
M24	330 (245)	425 (315)	650 (480)	820 (600)	920 (680)	1150 (850)	1080 (800)	1350 (1000)
M27	490 (360)	625 (460)	950 (700)	1200 (885)	1350 (1000)	1700 (1250)	1580 (1160)	2000 (1475)
M30	660 (490)	850 (625)	1290 (950)	1630 (1200)	1850 (1350)	2300 (1700)	2140 (1580)	2700 (2000)
M33	900 (665)	1150 (850)	1750 (1300)	2200 (1625)	2500 (1850)	3150 (2325)	2900 (2150)	3700 (2730)
M36	1150 (850)	1450 (1075)	2250 (1650)	2850 (2100)	3200 (2350)	4050 (3000)	3750 (2770)	4750 (3500)

^a "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.

^b "Dry" means plain or zinc plated without any lubrication.

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

Make sure fastener threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

Crime Prevention Tips

Help Prevent Crime

You can help take a bite out of crime by properly documenting ownership and discouraging theft.

**TAKE A BITE OUT OF
CRIME**
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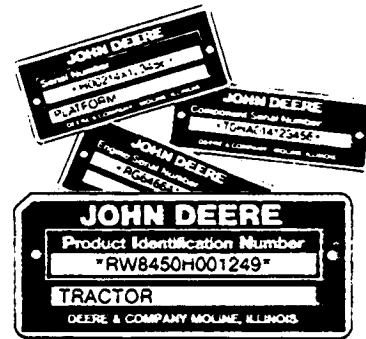


TS140 -19-07OCT88

DX,CRPRV,A -19-03MAR93-1/1

Record Ag Identification Numbers

1. Mark your machines with your own unique numbering system.
2. Record the Product Identification Number (PIN) of the unit and also individual component identification numbers for engines, axles, pumps, etc. Include the PIN numbers on all documentation, such as insurance, financial, and warranty papers.

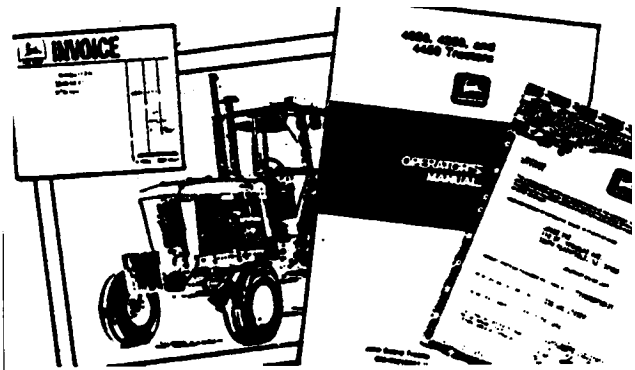


TS161 -UN-23MAR89

DX,CRPRV,B -19-03MAR93-1/1

Keep Proof of Ownership

1. Take color photographs from several angles of each machine.
2. Maintain an up-to-date inventory of all your machines.
3. Keep your documented identification numbers, color photographs, and inventory in a safe, secure location.



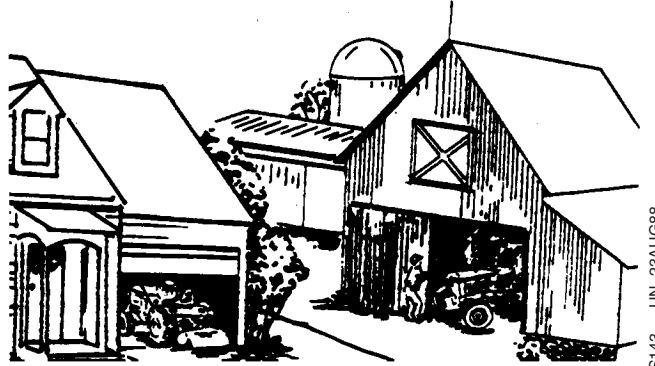
TS142 -UN-23MAR89

DX,CRPRV,C -19-03MAR93-1/1

Park Indoors Out of Sight

Make machines hard to move:

- Park large equipment in front of exits.
- Lower equipment to the ground. Set parking brake, shut off engine and remove key.
- Remove battery when unit is in storage.
- Lock cab doors, windows, and vandal-proof devices.
- Set wheels in widest position making loading more difficult. Lock building.



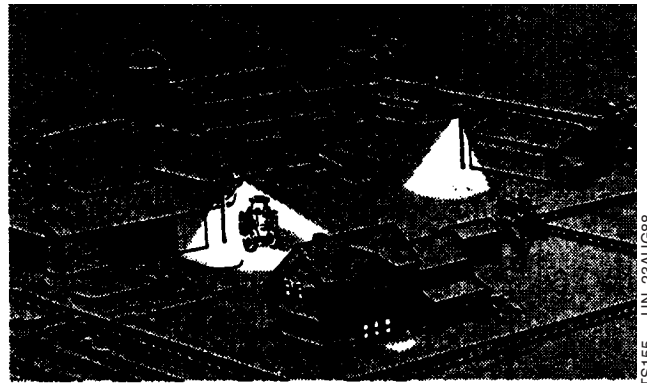
TS143 -UN-23AUG88

DX,CRPRV,D -19-03MAR93-1/1

When Parking Outdoors

Make machines hard to move:

- Park in a well-lighted, fenced area.
- Lower all equipment to the ground.
- Remove ignition key. Remove battery when unit is in storage.
- Lock cab doors, windows, and vandal-proof devices.
- Set wheels in widest position making loading more difficult.

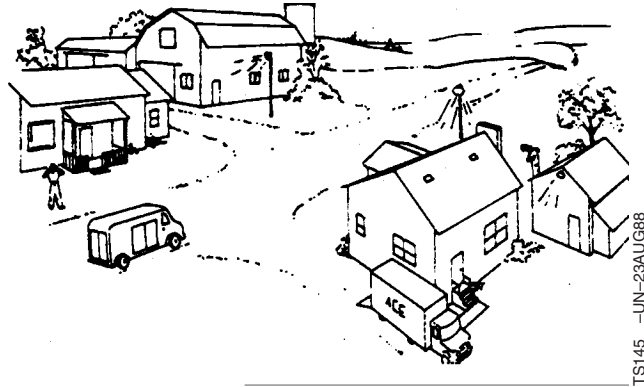


TS155 -UN-23AUG88

DX,CRPRV,E -19-03MAR93-1/1

Reduce Vandalism

1. Install vandal-proof devices.
2. Participate in a neighborhood watch program. Take written notes of suspicious vehicles or persons and report your findings to law enforcement agency.
3. Regularly verify that identification plates have not been removed. If they have, notify law enforcement agency. Order duplicate plates from your dealer.



TS145 -UN-23AUG88

DX,CRPRV,F -19-03MAR93-1/1

Report Thefts Immediately

1. Immediately notify your local law enforcement agency and insurance agent.
2. Provide a complete description of the machine, all of the documented identification numbers and color photographs.
3. Request verification of the identification numbers after they have been entered with any regional or national crime information center. Double check the numbers to be sure they are correct.
4. Notify your John Deere dealer of the theft and request that its loss be posted with full description and identification numbers.



TS146 -UN-09JAN89

DX,CRPRV,G -19-03MAR93-1/1

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John Deere Service Literature Available

Technical Information

Technical information is available from John Deere. Some of this information is available in electronic as well as printed form. Order from your John Deere dealer or call **1-800-522-7448**. Please have available the model number, serial number, and name of the product.

Available information includes:

- **PARTS CATALOGS** list service parts available for your machine with exploded view illustrations to help you identify the correct parts. It is also useful in assembling and disassembling.
- **OPERATOR'S MANUALS** providing safety, operating, maintenance, and service information. These manuals and safety signs on your machine may also be available in other languages.
- **OPERATOR'S VIDEO TAPES** showing highlights of safety, operating, maintenance, and service information. These tapes may be available in multiple languages and formats.
- **TECHNICAL MANUALS** outlining service information for your machine. Included are specifications, illustrated assembly and disassembly procedures, hydraulic oil flow diagrams, and wiring diagrams. Some products have separate manuals for repair and diagnostic information. Some components, such as engines, are available in separate component technical manuals
- **FUNDAMENTAL MANUALS** detailing basic information regardless of manufacturer:
 - Agricultural Primer series covers technology in farming and ranching, featuring subjects like computers, the Internet, and precision farming.
 - Farm Business Management series examines "real-world" problems and offers practical solutions in the areas of marketing, financing, equipment selection, and compliance.
 - Fundamentals of Services manuals show you how to repair and maintain off-road equipment.
 - Fundamentals of Machine Operation manuals explain machine capacities and adjustments, how to improve machine performance, and how to eliminate unnecessary field operations.



TS189 -UN-17JAN89



TS191 -UN-02DEC88



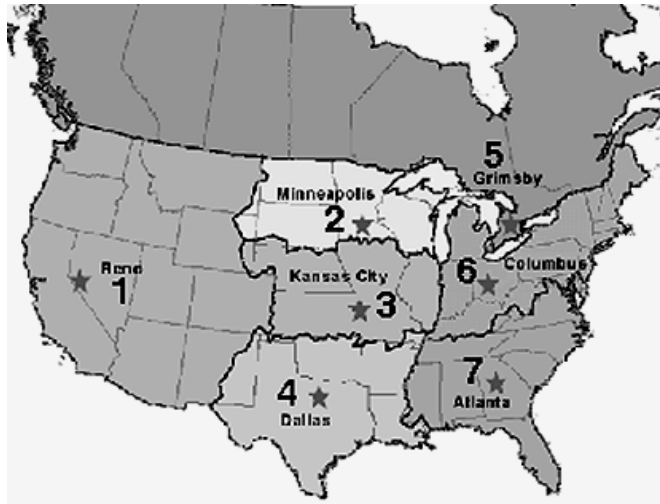
TS224 -UN-17JAN89



TS1663 -UN-10OCT97

John Deere Service Keeps You On The Job

John Deere Is At Your Service When You Need It



1. JOHN DEERE COMPANY
1450 Ridgeview Drive Suite 200
Reno, NV 89509
Phone: 775-824-5520
Fax: 775-824-5559

3. JOHN DEERE COMPANY
3210 East 85th Street
Kansas City, MO 64132-2586
Phone: 816-361-4000
Fax: 816-995-9380

5. JOHN DEERE LIMITED
P.O. Box 1000
Grimsby, ON L3M 4H5
Phone: 905-945-9281
Fax: 905-945-0341

7. JOHN DEERE COMPANY
2001 Deere Drive
Conyers, GA 30013-1598
Phone: 770-922-7040
Fax: 770-388-2103

2. JOHN DEERE COMPANY
2001 West 94th Street
Bloomington, MN 55431-3211
Phone: 612-887-6200
Fax: 612-887-6244

4. JOHN DEERE COMPANY
4040 McEwen, Suite 200
Dallas, TX 75244
Phone: 972-385-1701
Fax: 972-663-2390

6. JOHN DEERE COMPANY
701 Georgesville Road
Columbus, OH 43228-2499
Phone: 614-275-1500
Fax: 614-275-1450

CUSTOMER SATISFACTION is important to John Deere. Our dealers strive to provide you with prompt, efficient parts and service.

This includes:

- Maintenance and service parts to support your equipment.
- Trained service technicians and the necessary diagnostic and repair tools to service your equipment.

CUSTOMER SATISFACTION PROBLEM RESOLUTION PROCESS

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

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

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

2. Discuss problem with dealer service manager.

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

4. If you have a persistent problem your dealership is unable to resolve, ask your dealer to contact John Deere for assistance.

5. If a problem is not resolved to your satisfaction, contact the appropriate John Deere sales location for your area shown in map and ask to speak with customer service.