

50A Series Row-Crop Heads



OPERATORS MANUAL

50A Series
Row-Crop Heads

OMH120053 I4 English

John Deere Harvester Works
OMH120053 I4

LITHO IN U.S.A.
ENGLISH



INTRODUCTION



This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

NOTE: If this row-crop head is attached to any combine, other than a John Deere, be certain all exposed drives are adequately shielded.

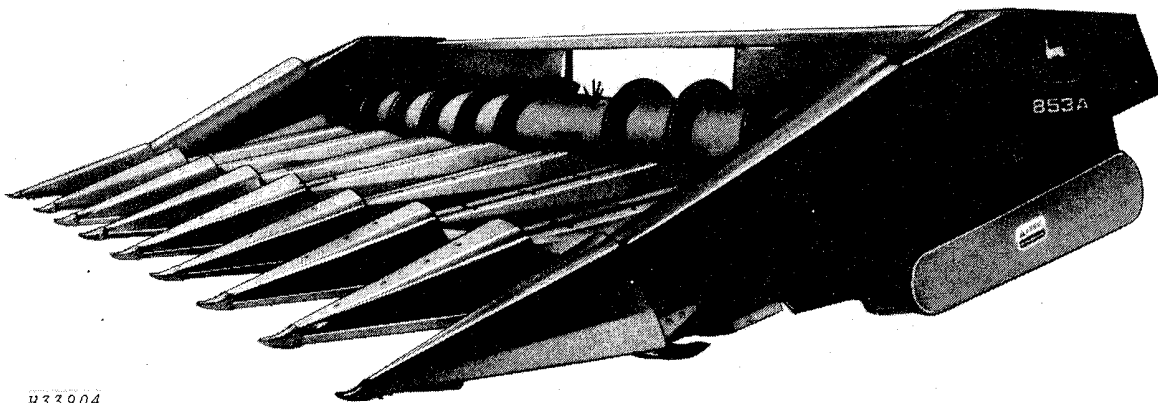
Your operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

"Right-hand" and "left-hand" sides are determined by facing in the direction the row-crop head will travel.

Record your row-crop head serial number in the space provided in SPECIFICATIONS.

The warranty on this row-crop head appears on your copy of the purchase order which you should have received from your dealer when making your purchase. 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.

Warranty and field improvements are a part of John Deere's product support program for customers who operate and maintain their equipment as described in this manual. 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.



H33904

H33904



Contents

	Page
Contents	1
Safety	2
Attaching and Detaching	5-35
Transporting	36
Operating the Row-Crop Head	37-67
Lubricants	68
Lubrication and Maintenance	70
Trouble Shooting	72
Service	84
Storage	88
Crime Prevention	89
Attachments	92
Specifications	95
Index	97

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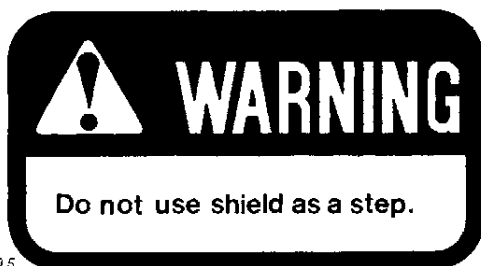
The full manual is available for immediate download.

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Safety

SAFETY DECALS



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H-33905

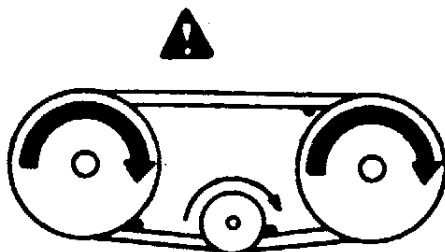


CAUTION, WARNING, OR DANGER: Decals with these headings and symbol indicate the possibility of personal injury.

IMPORTANT: Decals with this heading indicate the possibility of damage to the machine.

Decals are located in areas where they apply.

AVOID CONTACT WITH MOVING PARTS



H36880

Keep hands, feet, and clothing away from power-driven parts. Be particularly careful of pinch points on belt and chain drives.

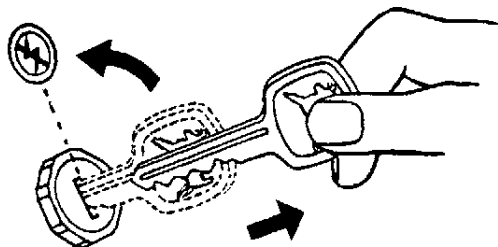
Never clean, lubricate, or adjust the row-crop head when it is running.

Never attempt to clear obstructions off the row-crop head unless the separator is disengaged and the power is shut off.

A—Pinch Points

B—Belt Drive

LEAVING COMBINE UNATTENDED

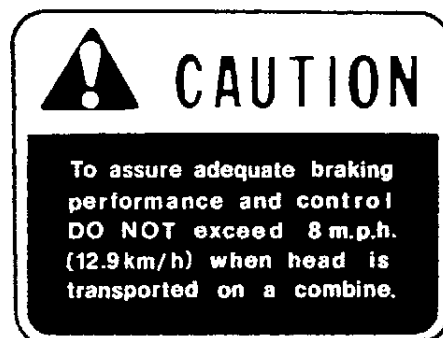


H37524

Before leaving the combine unattended, turn off engine and remove keys. Support the row-crop head with the hydraulic cylinder safety stop or lower it to the ground. Place the gearshift lever in neutral and engage the parking brake. Lock cab doors on 6620, SideHill 6620, 7720 and 8820 Combines.

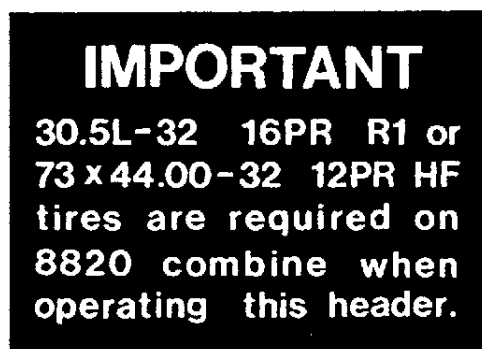
TRANSPORT SAFELY

Never transport on road with 1253A Row-Crop Header attached to combine faster than 8 mph. It is recommended that you use a Model 25 Transport Frame for these 50A Series Headers.



H37374

When an 8820 Combine is equipped with a 1253A Row-Crop Head, 30.5L-32 16 PR or 73 x 44.00-32 high flotation tires are required.

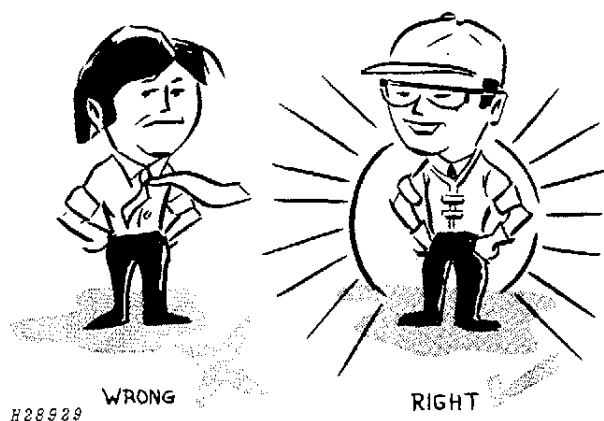


H37375

OPERATE SAFELY

Clothing worn by operator must be fairly tight and belted. Loose jackets, shirts, or sleeves must never be worn.

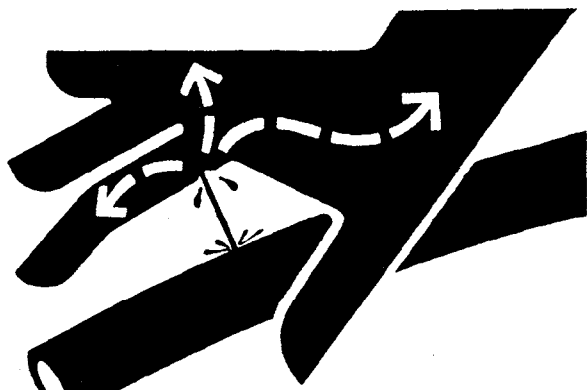
Any time work is being done under row-crop head, the hydraulic cylinder safety stop must be placed in the safety position.



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AVOID HIGH PRESSURE FLUIDS

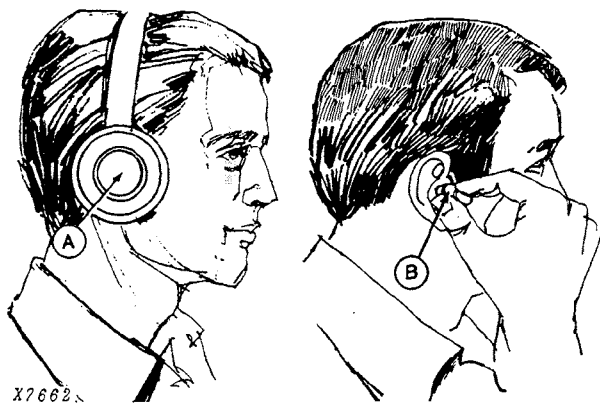


Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

Cracking hydraulic line fittings to lower the feeder house will result in an instantaneous dropping of feeder house or feeder house and header.

PROTECT AGAINST NOISE



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

Wear a suitable hearing protective device as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.

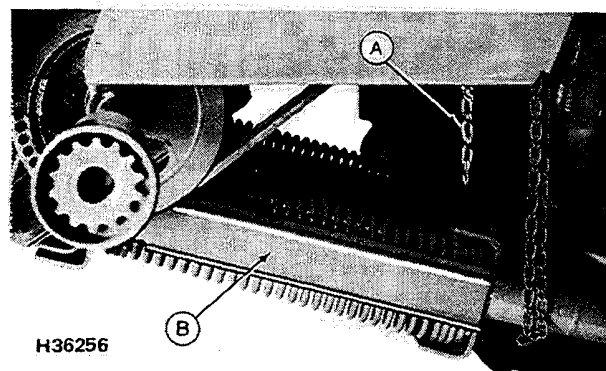
A—Earmuffs
B—Earplugs



Attaching and Detaching

ATTACHING ROW-CROP HEAD TO 4400 (-350000), 6600, 7700, AND 7701 COMBINES

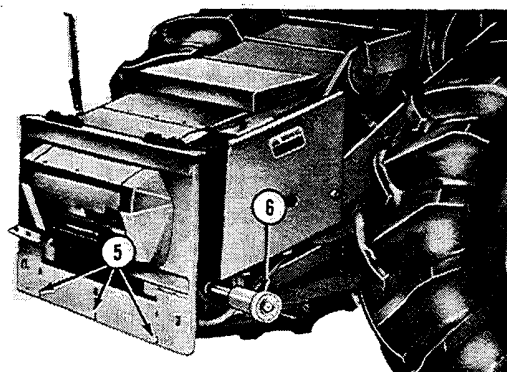
1. Install coupler on lower feeder house shaft.
2. Sound horn, start engine and lower feeder house.
3. Move combine slowly forward until feeder house is centered in row crop head opening. Raise feeder house, lifting row-crop head, all the way up. Shut off engine and remove key.
4. Disconnect chain (A) and lower hydraulic cylinder safety stop (B) on lift cylinder.



A—Chain
B—Safety Stop

H36256

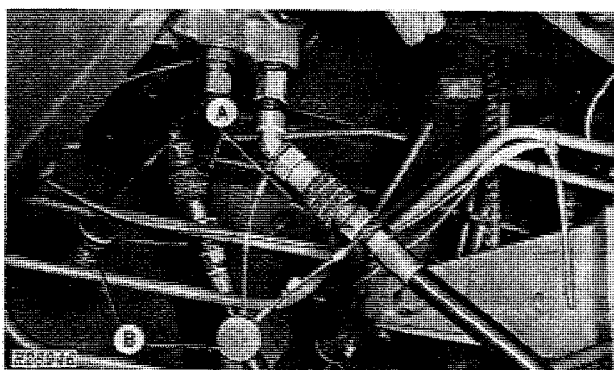
5. Secure row-crop head to feeder house with three 1/2 x 1-1/2-inch round head bolts and 17/32 x 1-1/4 x .180-inch flat washers in bottom holes.
6. Place roller chain around sprockets, slide coupler over sprockets and chain. Repeat procedure on other side.
7. Connect Automatic Header Height Control harness if so equipped.



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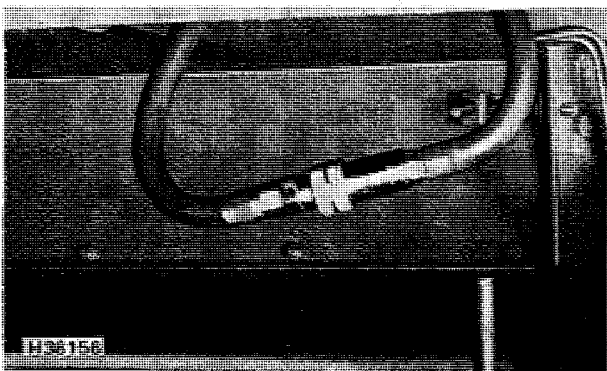
6 Attaching and Detaching



H26946

8. When attaching the header, connect both variable feeder house hoses at quick-disconnect couplers (A) under operator's platform.
9. Sound horn, start combine engine and move the variable speed feeder house control lever to close the top variable sheaves. Shut off engine and remove key.

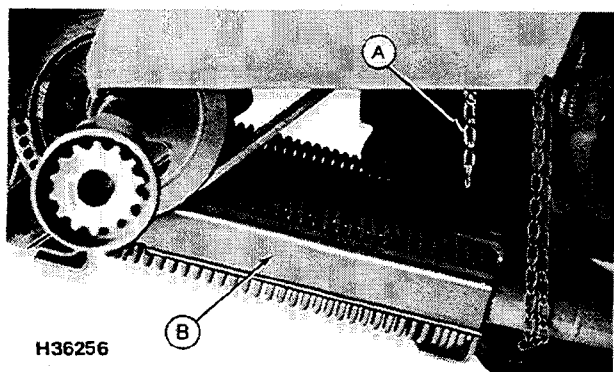
A—Quick Disconnect Couplers
B—Protective Caps



H36156

IMPORTANT: Hoses must be connected when using a row-crop header. Connect the combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged as constant operation of relief valve will cause overheating.

DETACHING ROW-CROP HEAD FROM 4400 (-350000), 6600, 7700 AND 7701 COMBINES



H36256

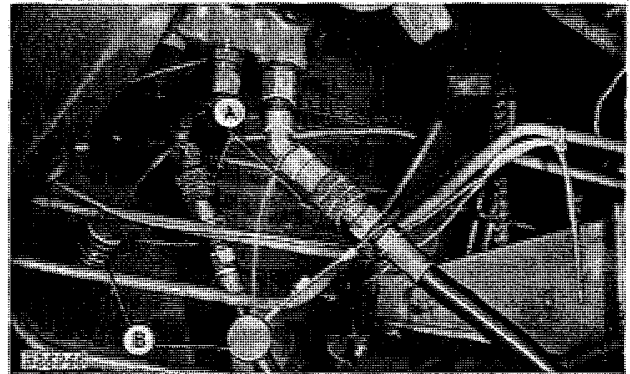
H36256

A—Chain
B—Safety Stop

1. Sound horn, start engine and raise row-crop head all the way up. Shut off engine and remove key.
2. Disconnect chain and lower hydraulic cylinder safety stop on lift cylinder.
3. Slide coupler off sprockets and chain, and remove coupler chain. Repeat procedure on other side.
4. Disconnect Automatic Header Height Control harness if so equipped.
5. Remove three 1/2 x 1-1/2-in. round head bolts and 17/32 x 1-1/4 x .180-in. flat washers.
6. Raise hydraulic cylinder safety stop and hook chain.
7. Sound horn, start engine and lower feeder house until row-crop head is on ground and attaching blocks are free.
8. Move combine slowly rearward until feeder house is clear of row-crop head. Shut off engine and remove key.

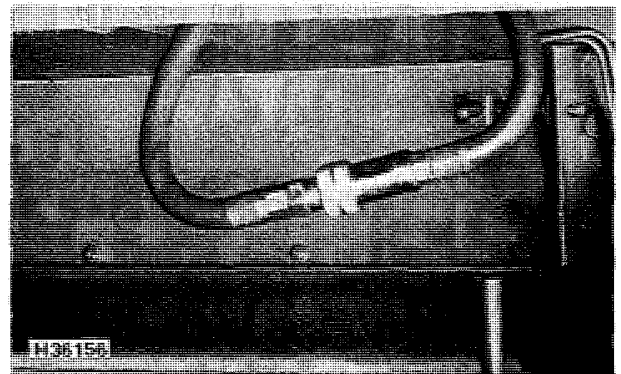
9. Disconnect both hoses at quick-disconnect couplers (A) under operator's platform, only if changing over to a cutting platform.

A—Quick Disconnect Couplers
B—Protective Caps



H26946

IMPORTANT: Hoses must be connected when using a row-crop header. Connect the combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged as constant operation of relief valve will cause overheating.

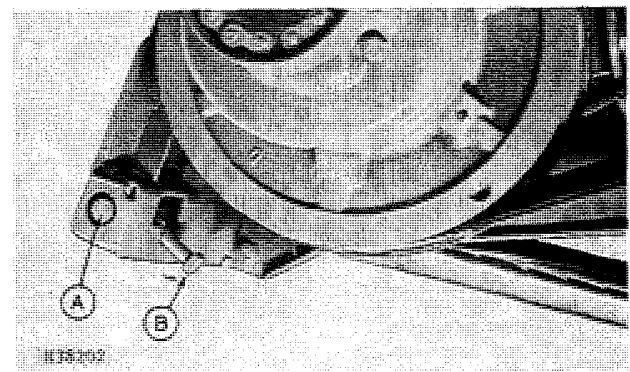


H36156

ATTACHING ROW CROP HEAD TO 4400 (350001-353000) 4420, 6620, 7720, 7721 and 8820 (-600000) COMBINES

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 down. If pins are left in the out position, damage to the feeder house will result when mounting a header.

NOTE: If belt pickup or cutting platform was used prior to using row-crop head, the pressure line and return line for belt pickup or reel drive must be connected together under operators platform or on feeder house.

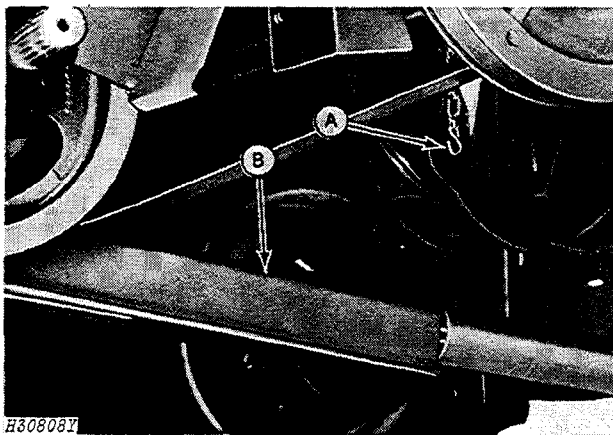


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H38202

A—Lock Pin
B—Stop Pin

8 Attaching and Detaching



H30808Y

H33907

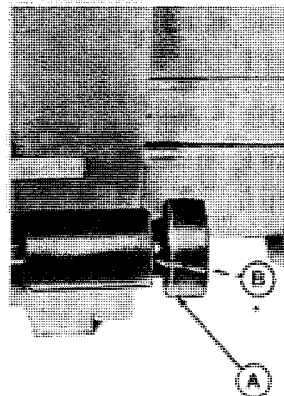
Install coupler on lower feeder house shaft as follows:

NOTE: Two couplers, shipped with the feeder house are used on the 653A, 654A, 655A, 853A, 854A and 1253A Row-Crop heads. An extra coupler is shipped with the 8820 Combine and must be installed on the left-hand row-crop shaft as follows:

1. (Not illustrated) Remove snap ring on left-hand drive shaft. Save snap ring.
2. Slide off coupler sprocket and shield.
3. Install quick coupler (A) with shield.
4. Secure with snap ring (B).

A—Quick Coupler

B—Snap Ring



H33907

H30808Y

5. Sound horn, start engine and lower feeder house.
6. Move combine slowly forward until feeder house is centered in row-crop head opening. Raise feeder house, lifting row-crop head, all the way up. Shut off engine and remove key.
7. Disconnect chain (A) and lower hydraulic cylinder safety stop (B) on lift cylinder.

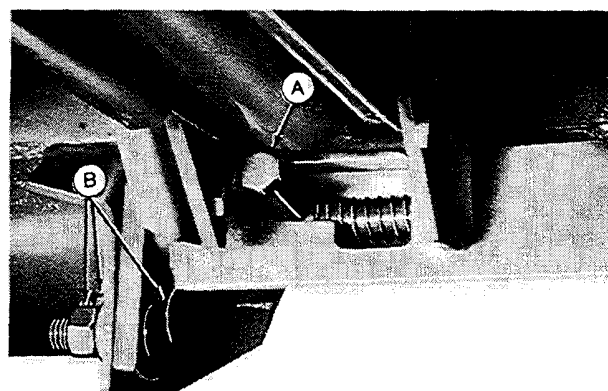
A—Chain

B—Safety Stop

8. Pivot stop bolt (A) up allowing lock pin to lock into header. Repeat on other side.

NOTE: Loosen mating lock plate (B) on the row-crop head, to allow the lock pin to center. Retighten lock plate.

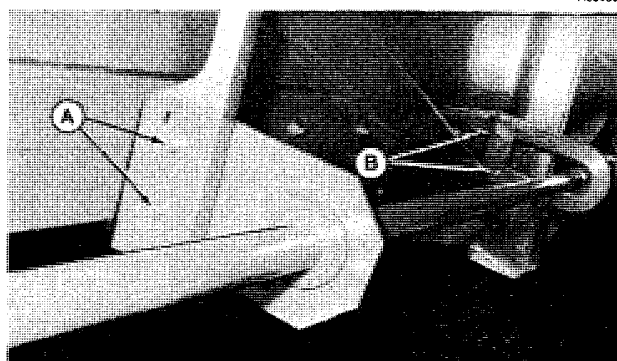
A—Stop Bolt
B—Mating Lock Plate



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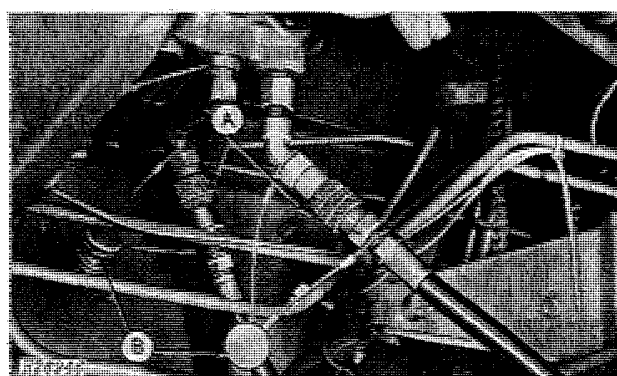
9. (854A and 1253A Row-Crop Heads only) Loosen two bolts in bearing retaining bracket (A), and in shaft support bracket (B). Both brackets must be loose. Repeat procedure on other side.
10. (854A and 1253A Row-Crop Heads only) Place roller chain around sprockets, slide coupler over sprockets and chain, and position shield over coupler. Repeat procedure on other side.
11. (854A and 1253A Row-Crop Heads only) Start combine engine and engage header with engine at slow idle. Allow drive shafts to align, and bearing bracket to find its center. Disengage header and shut off engine.
12. (854A and 1253A Row-Crop Heads only) Secure two bolts in bearing retaining bracket (A), and in shaft support bracket (B) so bracket does not rub on shaft. Repeat procedure on other side. Head and combine shafts are now aligned.
13. Connect header height control harness if so equipped.
14. (4420 only) Connect both variable feeder house hoses at quick-disconnect couplers (A) under operator's platform.
15. Sound horn, start combine engine and move the variable speed feeder house control lever to close the top variable sheaves. Shut off engine and remove key.

A—Quick Disconnect Couplers
B—Protective Cap



H33359Y

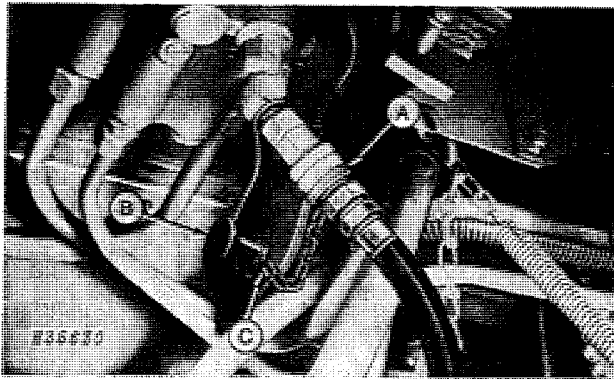
H50317



H26946

4420 Combine

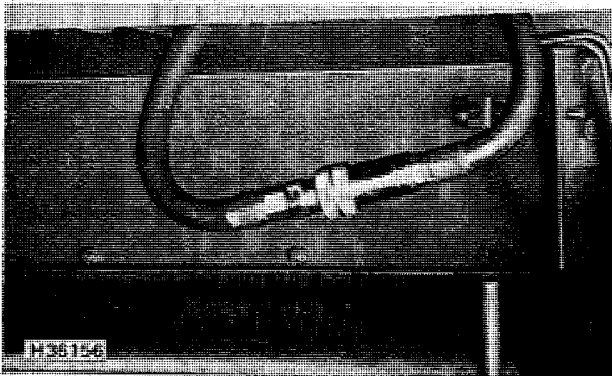
10 Attaching and Detaching



6620 - 7720 - 8820

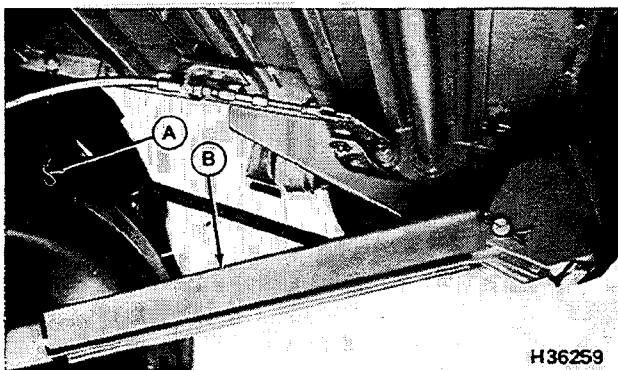
16. (6620, 7720, 7721 and 8820) When the variable feeder house hydraulic hose is connected to control valve, snap cap (C) and plug (B) together.
17. Whenever the hydraulic hose is disconnected from control valve, insert plug (B) into coupler (A), and snap cap (C) over coupler nose. Store variable feeder house hose with clamps on side of feeder house.

A—Quick Disconnect Couplers
B—Plug
C—Cap



IMPORTANT: Hoses must be connected when using a row-crop header. Connect the combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged as constant operation of relief valve will cause overheating.

DETACHING ROW-CROP HEAD FROM 4400 (35001-353000), 4420, 6620, 7720, 7721 and 8820 (-600000)

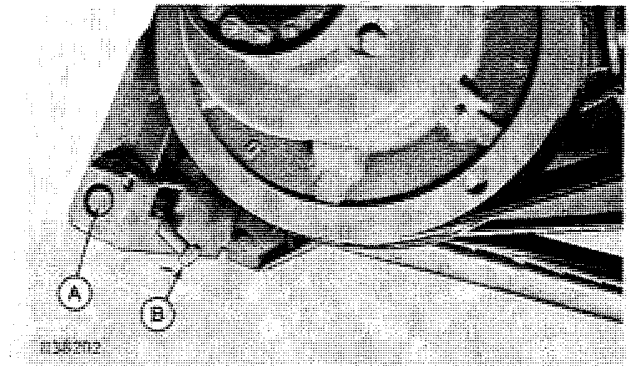


1. Sound horn, start engine and raise row-crop head all the way up. Shut off engine and remove key.
2. Disconnect chain (A) and lower hydraulic cylinder safety stop (B) on lift cylinder.

A—Support Chain
B—Safety Stop

3. Slide coupler off sprockets and chain and remove coupler chain. Repeat on other side.
4. Disconnect header height control harness if so equipped.
5. Slide and pivot stop bolt (B) down, allowing lock pin (A) to unlock row-crop head. Repeat on other side.

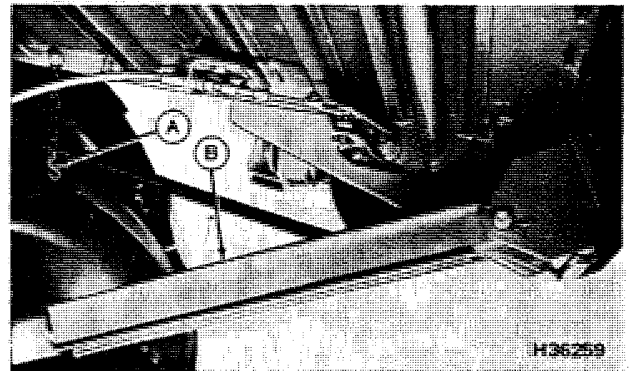
A—Lock Pin
B—Stop Bolt



6620 Combine Illustrated

6. Raise hydraulic cylinder safety stop (B) and hook chain (A).
7. Sound horn, start engine and lower feeder house until row-crop head is on ground and attaching blocks are free.
8. Move combine slowly rearward until feeder house is clear of row-crop head. Shut off engine and remove key.

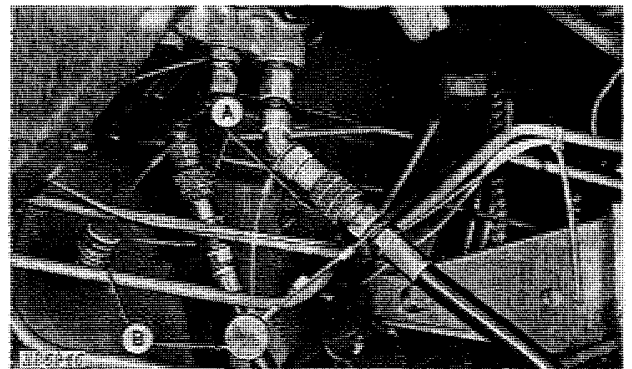
A—Support Chain
B—Safety Stop



H36259

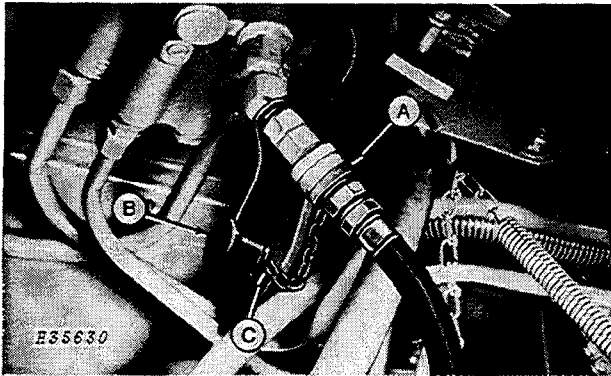
9. (4420) Disconnect both variable feeder house hydraulic hoses at quick-disconnect couplers (A) under operator's platform only if chaining to a cutting platform.
10. Whenever variable feeder house hydraulic hoses are disconnected from control valve, snap caps (B) over coupler noses.

A—Quick Disconnect Couplers
B—Protective Caps



4420 Combine

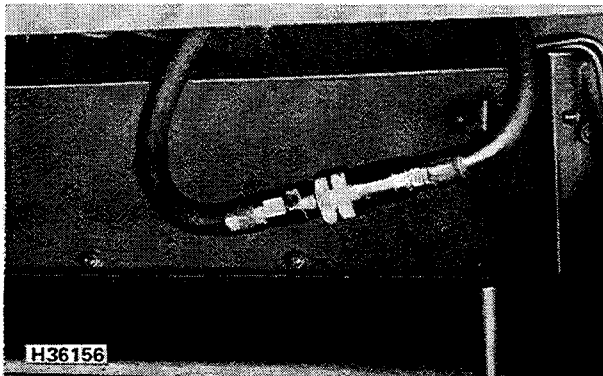
12 Attaching and Detaching



6620 - 7720 - 8820 Combines Illustrated

11. (6620, 7720, 7721 and 8820) Disconnect variable feeder house hydraulic hose (A) to control valve, only if changing to a cutting platform.
12. Whenever the variable feeder house hydraulic hose is disconnected from control valve, insert plug (B) into coupler (A) and snap cap (C) over coupler nose. Store variable feeder house hose with clamps on side of feeder.

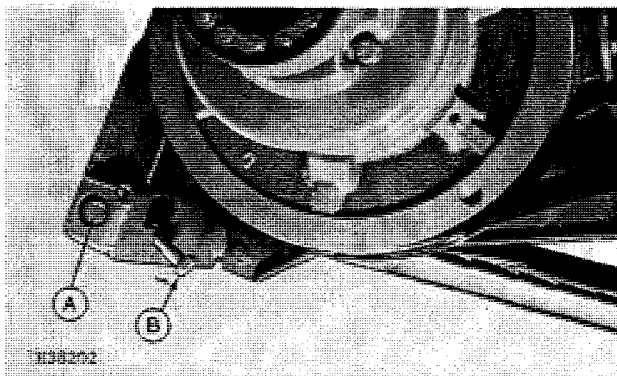
A—Quick Disconnect Couplers
B—Plug
C—Cap



4420 - 6620 - 7720 - 7721 and 8820 Combine

IMPORTANT: Hose must be connected when using a row-crop header. Connect the combine pressure hose to the return hose as shown. If connection is not made, hydraulic system can be damaged as constant operation of relief valve will cause overheating.

ATTACHING ROW-CROP HEAD TO 4420 (600001-) COMBINE



6620 Combine Illustrated

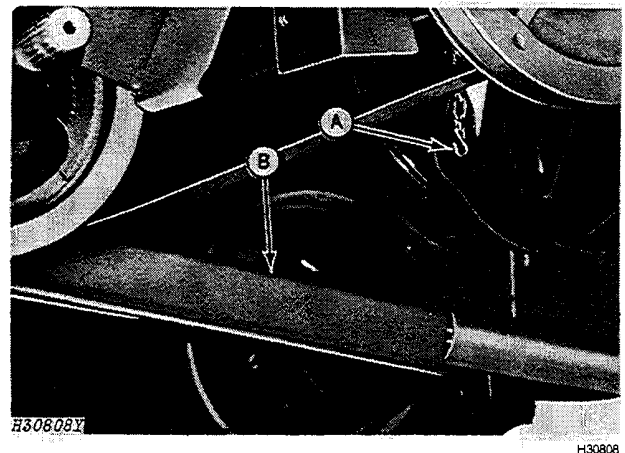
IMPORTANT: Lock pin (A) (both sides) must be positioned in before attaching header. Position pin by sliding stop bolt (B) in and then pivoting it down. If pins are left in the out position, damage to the feeder house will result when mounting a header.

NOTE: If belt pickup or cutting platform was used prior to using row-crop head, the pressure line and return line for belt pickup or reel drive must be connected together under the operators platform or on the feeder house.

A—Lock Pin
B—Stop Bolt

1. Sound horn, start engine and lower feeder house.
2. Move combine slowly forward until feeder house is centered in row-crop head opening. Raise feeder house, lifting row-crop head, all the way up. Shut off engine and remove key.
3. Disconnect chain (A) and lower hydraulic cylinder safety stop (B) on lift cylinder.

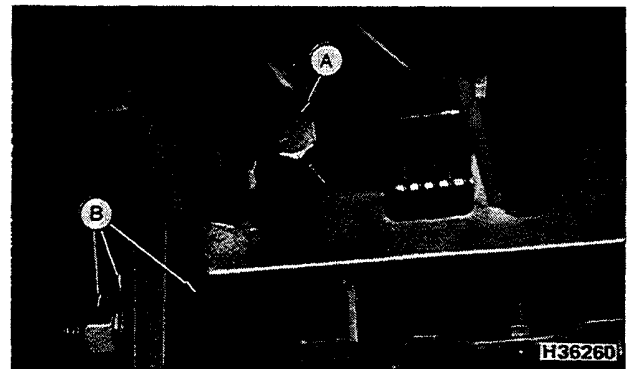
A—Chain
B—Safety Stop



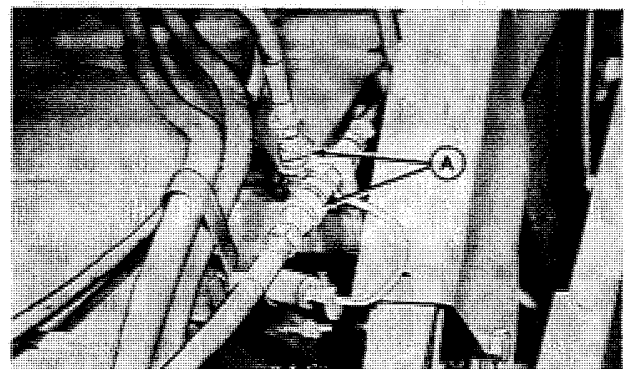
4. Slide and pivot stop bolt (A) up, and out to lock pin into header. Repeat on other side.

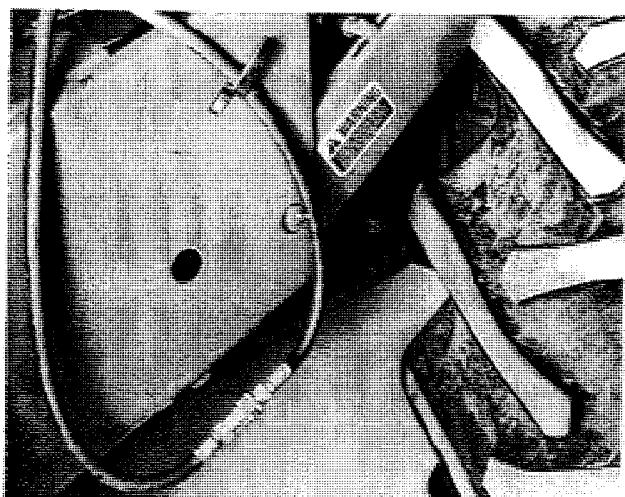
NOTE: Loosen mating lock plate (B) on row-crop to let lock pin lock and center into platform. Torque nut on lock plate (B) to 170 ft-lbs (231 N·m). Repeat on other side.

A—Stop Bolt
B—Lock Plate



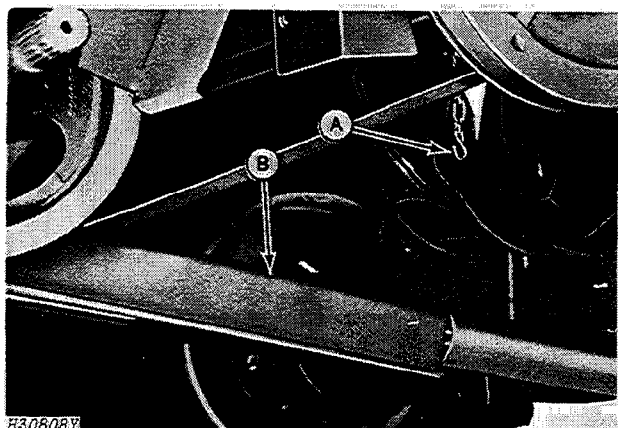
5. Connect header height control harness if equipped.
6. Connect both variable feeder house hoses at quick disconnect couplers (A) on left side of feeder house.
7. Sound horn, start combine engine and move the variable speed feeder house control lever to close the top variable sheaves. Shut off engine and remove key.





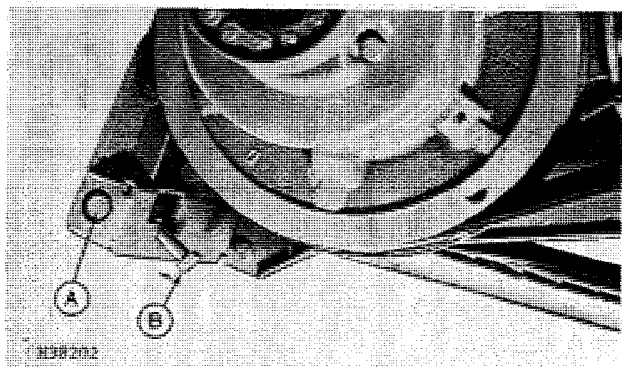
IMPORTANT: Hoses must be connected when using a row-crop header. Connect the combine pressure hose to return hose as shown. If connection is not made, hydraulic system can be damaged as constant operation of relief valve will cause overheating. Store hoses as shown.

DETACHING ROW-CROP HEAD FROM 4420 (600001-) COMBINES



1. Start engine and raise row-crop head all the way up. Shut off engine.
2. Disconnect chain (A) and lower hydraulic cylinder safety stop (B) on lift cylinder.

A—Chain
B—Safety Stop



6620 Combine Illustrated

3. Disconnect header height control harness if so equipped.
4. Slide and pivot stop bolt (A) down and out to lock pin into header. Repeat on other side.
5. Raise hydraulic cylinder safety stop and hook chain.
6. Sound horn, start engine and lower feeder house until row-crop head is on ground and attaching blocks are free.
7. Move combine slowly rearward until feeder house is clear of row-crop head. Shut off engine and remove key.

A—Stop Bolt



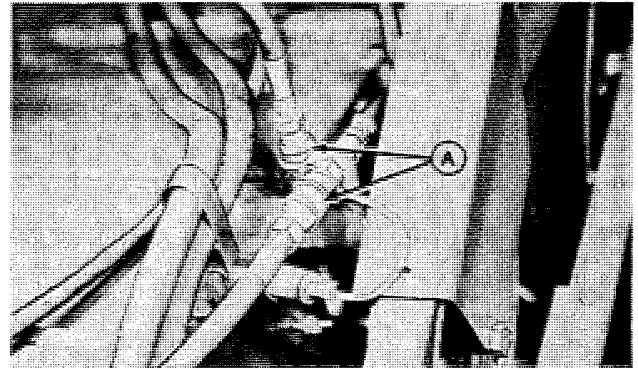
Suggest:

If the above button click is invalid.

Please download this document first, and then click the above link to download the complete manual.

Thank you so much for reading

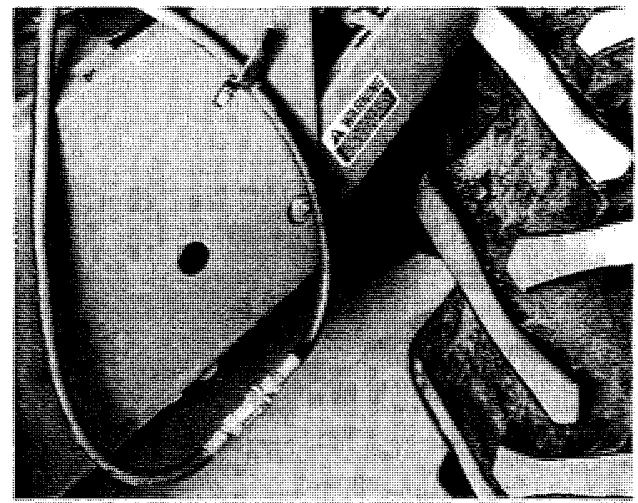
8. Disconnect both variable feeder house hoses at quick-disconnect couplers (A) on the left side of the feeder house only if changing to a cutting platform.



H38203

IMPORTANT: Hoses must be connected when using a row-crop header. Connect the combine pressure hose to the return hose as shown. If connection is not made, hydraulic system can be damaged as constant operation of relief valve will cause overheating.

9. Store hoses as shown to prevent damage.

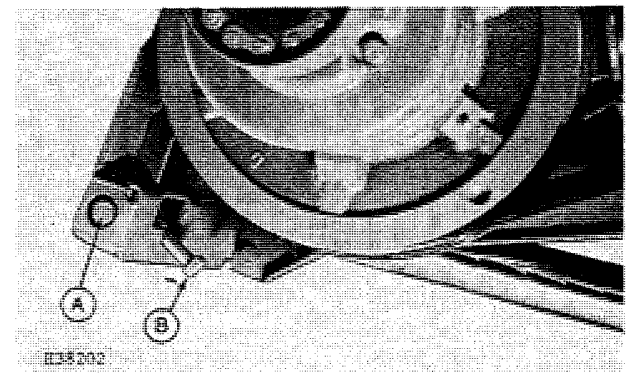


H38204

ATTACHING ROW CROP HEAD TO 6620, 7720, 7721 AND 8820 COMBINES (600001-)

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 down. If pins are left in the out position, damage to the feeder house will result when mounting a header.

NOTE: If belt pickup or cutting platform was used prior to using row-crop head, the pressure line and return line for belt pickup or reel drive must be connected together under the operators platform or on the feeder house.



H38202

H38202

A—Lock Pin
B—Stop Pin

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