

110-, 132-, AND 154-INCH THREE- ROLLER BELT PICKUPS AND 212 AND 214 PICKUP PLATFORMS



JOHN DEERE

OPERATORS MANUAL

110-, 132-, AND 154-INCH THREE-ROLLER BELT
PICKUPS AND 212 AND 214 PICKUP PLATFORMS

OMH124034 J5 English

JOHN DEERE HARVESTER WORKS
OMH124034 J5

LITHO IN THE 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.

The 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 belt pickup will travel when in use.

Record identification number(s) in space provided in Specifications. Accurately record "ALL" of the letters and numbers in case a computer is used to trace a stolen machine or for ordering parts from a dealer. Make an additional copy of the numbers and file it in a safe place.

The warranty on this belt pickup 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.



Contents

	Page		Page
SAFETY	2-3A	DIAL-A-MATIC™	40
SAFETY DECAL LOCATION	3B	LUBRICANTS	46
ATTACHING AND DETACHING	4-32	LUBRICATION AND MAINTENANCE	47,48
Attaching 4420, 6620, 7720, 7721 and 8820		TROUBLE SHOOTING	49-53
Combines (-600000)	4	SERVICE	54-60
Detaching 4420, 6620, 7720, 7721 and 8820		Connecting Hydrostatic Drive Hoses	54
Combines (-600000)	7	Tightening Hydrostatic Pump Drive Belt	55
Attaching 4420 (600001-) and		Adjusting Pickup Drive Belt (6601)	56
4425 Combines	9	Adjusting Pickup Drive Chain	56
Detaching 4420 (600001-) and		Adjusting Lower Roller Drive Chain	56
4425 Combines	11	Pickup Belts	57
Attaching 6620, 7720, 7721 and 8820		Adjusting Tension	57
Combines (600001-)	12	Removing Belts	58
Detaching 6620, 7720, 7721 and 8820		Installing Belts	58
Combines (600001-)	15	Installing Lacing	58
Attaching SideHill 6620 Combine		Replacing Pickup Fingers	59
(-403300)	17	Stripper	60
Detaching SideHill 6620 Combine		Tire Inflation	60
(-403300)	19	STORAGE	61
Attaching SideHill 6620 Combine		CRIME PREVENTION	62-64
(403301-600000)	20	ASSEMBLY AND INSTALLATION	66-87
Detaching SideHill 6620 Combine		Support Arms, Belts, and Hold-Down	66
(403301-600000)	22	Preparing 6601 Platform for Belt Pickup	68
Attaching SideHill 6620 Combine		Mechanical Drive	68
(600001-610000)	24	Installing Stripper Support Plate	69
Detaching SideHill 6620 Combine		Installing Belt Pickup	69
(600001-610000)	26	Installing Mechanical Drive Parts	
Attaching SideHill 6620 Combine		and Shields	71
(610001-)	28	Preparing 200 Series Rigid Platform	
Detaching SideHill 6620 Combine		for Belt Pickup	75
(610001-)	30	Installing Stripper Support Plate	79
TRANSPORTING	33	Installing Belt Pickup (Diagrams)	80
OPERATING THE PLATFORM	31-44	Installing Hydrostatic Drive Parts	81,82
Pickup Speed	34	Preparing Pickup Platform for Belt	
Mechanical Drive (6601)	35	Pickup	83-85
Hydrostatic Drive	35	Installing Auger Flight Extensions	85
Pickup Pitch	36	Installing Hydrostatic Drive Parts	86,87
Normal Windrow Conditions	36	SPECIFICATIONS	88,89
Poor Windrow Conditions	37		
Rocky Conditions	37		
Pickup Height	38		
Adjusting Gauge Wheels	38		
Adjusting Windrow Hold-down	38		
6601	39		
200 Series and Belt Pickup	39		
Adjusting Auger	39		



Safety

SAFETY DECALS



H28488N

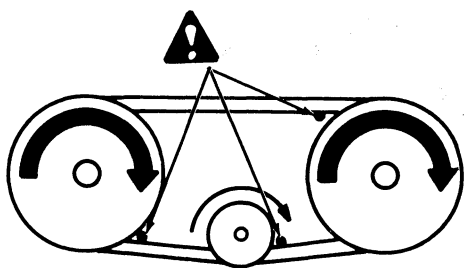


CAUTION, WARNING OR DANGER: Decals with these headings and symbol indicate the possibility of personal injury.

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



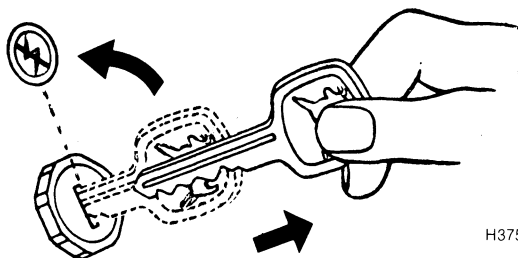
H36880

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 pickup when it is running.

Never attempt to clear obstructions off the pickup unless the separator is disengaged and the power is shut off.

LEAVING COMBINE UNATTENDED



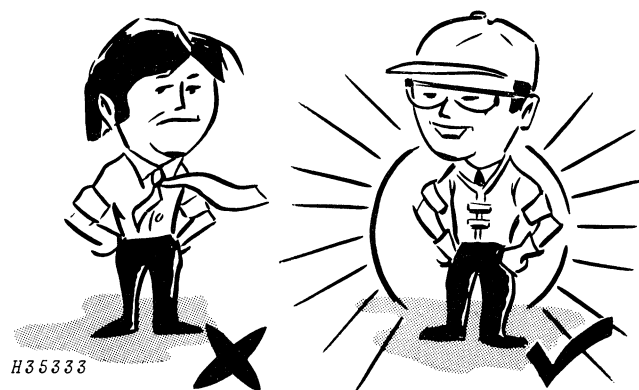
H37524

Before leaving the combine unattended, turn off engine and remove keys. Support the pickup 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.

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 pickup, the hydraulic cylinder safety stop must be placed in the safety position.



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.



X9811

PROTECT AGAINST NOISE

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

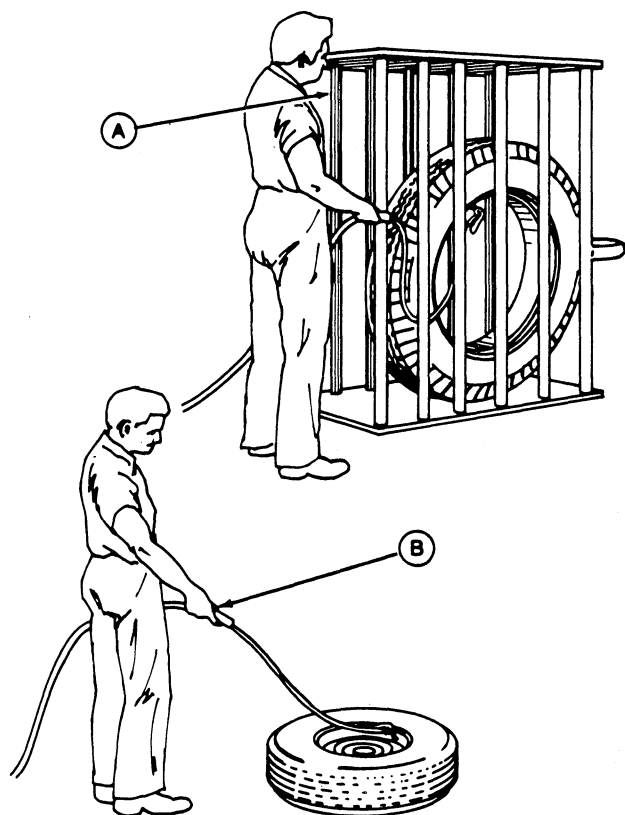
Wear a suitable hearing protective device as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.



A — Earmuffs
B — Earplugs

X7662

SERVICE TIRES SAFELY



TS0123

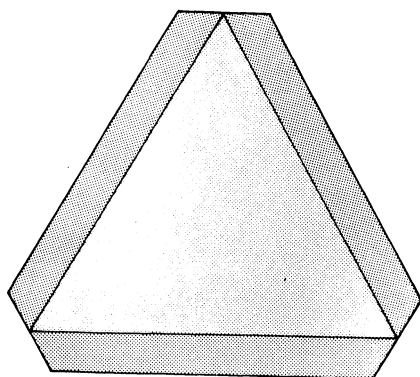
Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When seating tire beads on rims, never exceed 35 psi (2.40 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

A—Use a safety cage if available.
B—Do not stand over tire. Use a clip-on chuck and extension hose.

TRANSPORT SAFELY



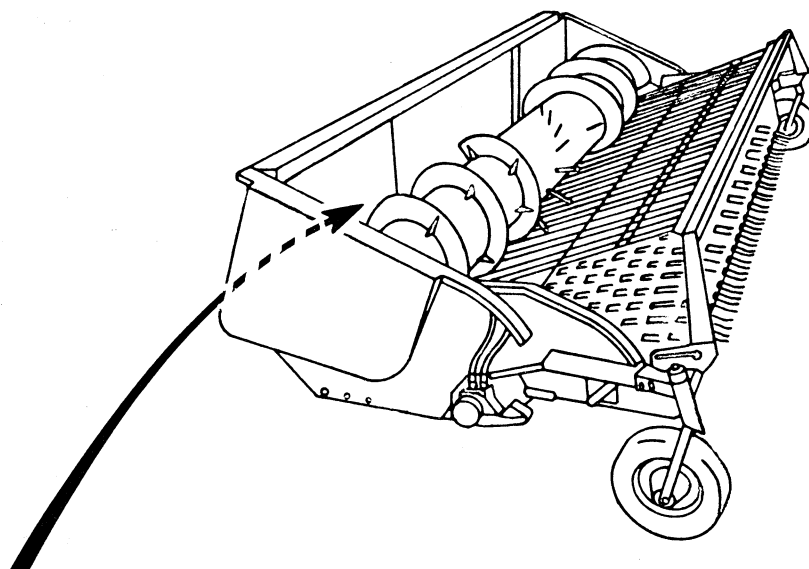
H35338

When transporting the combine on a road or highway, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Always check width laws.

H35338



Safety Decal Location

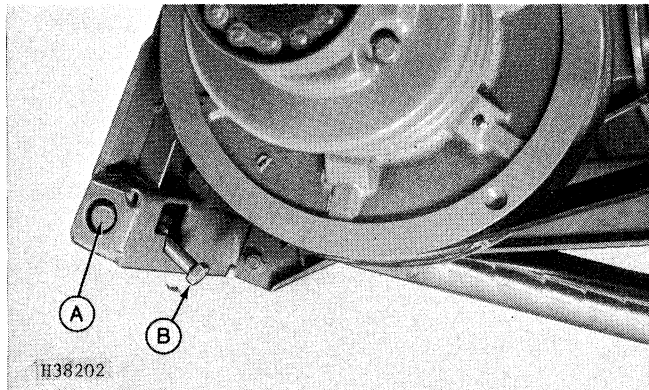


SIDEHILL 6620 (Driveshaft Shield)



Attaching and Detaching Platform

ATTACHING BELT PICKUP TO 4420, 6620, 7720, 7721 and 8820 COMBINES (-600000)

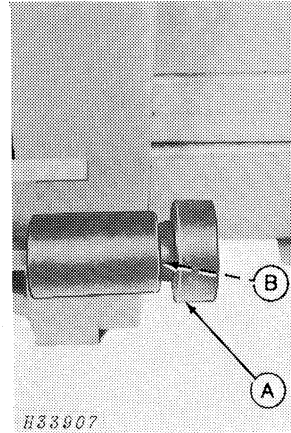


IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by sliding stop bolt (B) in and down. If pins are left in the out position, feeder house will be damaged when header is attached.

H38202

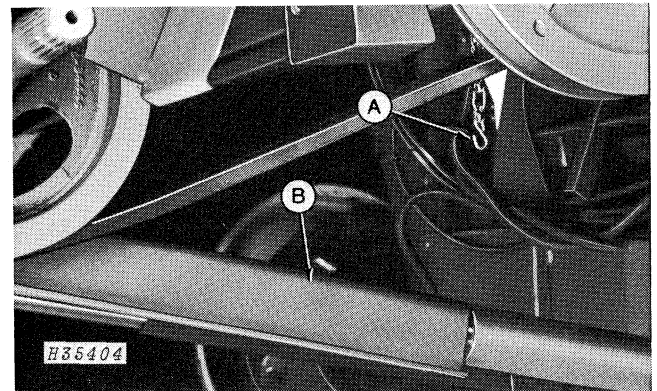
Install coupler on lower right-hand feeder house shaft in steps 1 thru 4.

1. (Not illustrated) Remove snap ring on right-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).



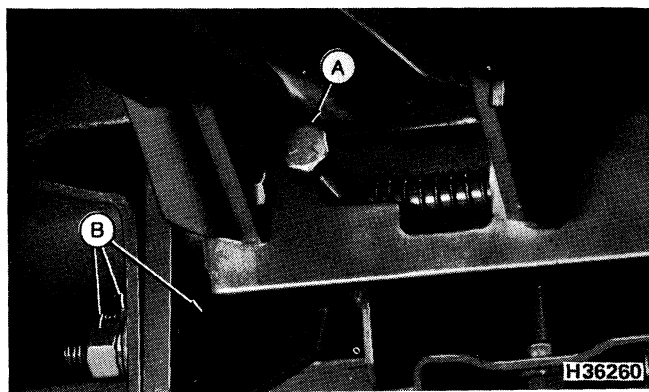
Left Hand Side Shown

5. Honk horn, start engine and lower feeder house.
6. Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform, all the way up. Shut off engine and remove key.
7. Disconnect chain (A) and lower safety stop (B) on cylinder.



H35404

6 Attaching and Detaching

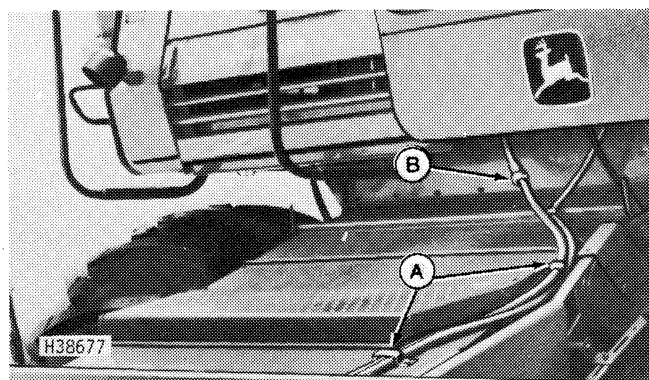


H36260

8. (Both Sides) Pivot stop bolt (A) up to let lock pin lock into header.

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

9. (8820 Only) Install coupler shipped with feeder house on left-hand platform drive shaft.
10. Wrap chain around sprocket, slide coupler over sprocket, and chain, then position shield over coupler.

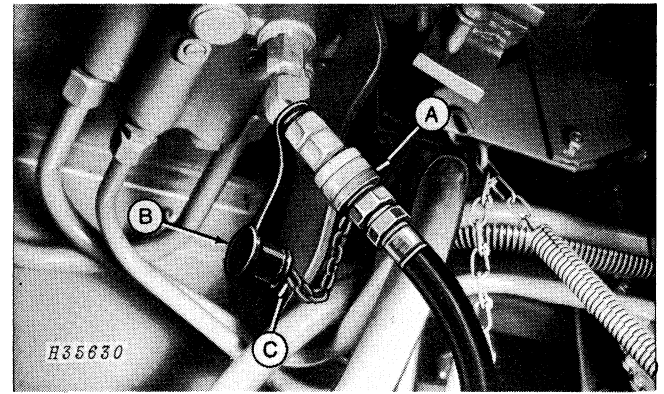


H38677

11. Connect header height control harness if equipped.
12. Run hoses thru clamps (A) and connect hoses for hydrostatic belt drive at couplers (B) under operator's platform.
13. Honk horn, start engine and move feeder house speed lever forward to close variable sheaves. Minimum speed on digital tach. Shut off engine and remove key.

14. (6620, 7720, 7721 and 8820) When variable feeder house hose is connected to control valve, snap cap (C) and plug (B) together.
15. When 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.

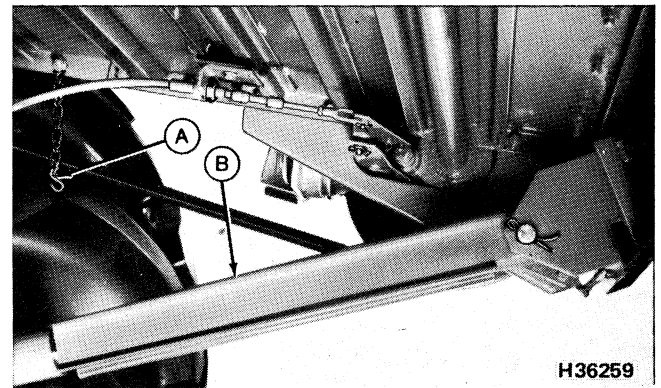
A—Quick Disconnect Coupler
B—Plug
C—Cap



6620 - 7720 - 8820

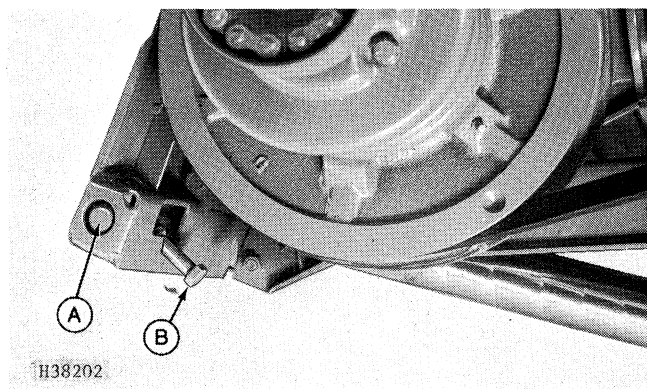
DETACHING BELT PICKUP FROM 4420, 6620, 7720, 7721 and 8820 COMBINES (-600000)

1. Honk horn, start engine and raise platform all the way up. Shut of engine and remove key.
2. Disconnect chain (A) and lower safety stop (B) on cylinder.

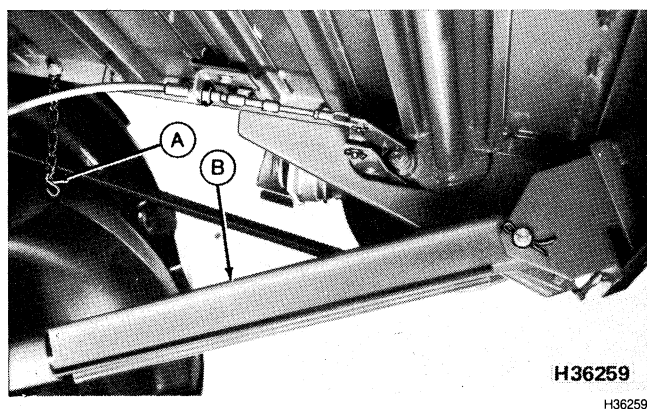


H36259

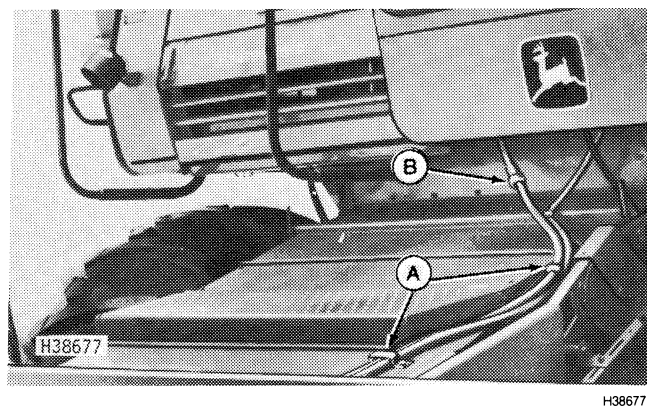
8 Attaching and Detaching



3. (Left-hand side only) Slide coupler back and unwrap coupler chain.
4. Disconnect header height control harness if equipped.
5. (Both sides) Slide and pivot stop bolt (B) down, to let lock pin (A) unlock platform.

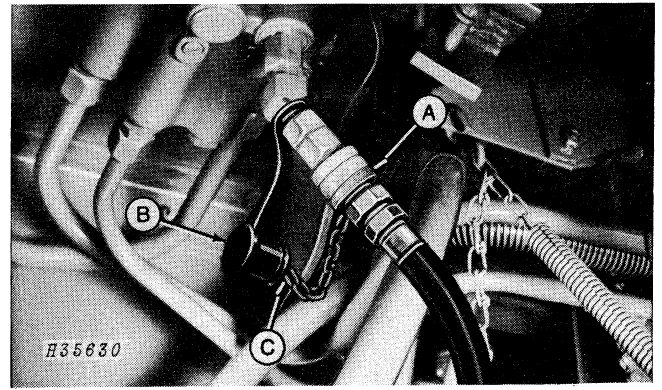


6. Raise safety stop (B) and hook on chain (A).
7. Honk horn, start engine and lower feeder house until platform is on ground and pivot blocks are free.
8. Drive slowly rearward until feeder house is clear of platform. Shut off engine and remove key.



9. Disconnect hoses for hydrostatic belt drive at couplers (B) under operator's platform and remove from clamps (A).
10. When variable feeder house hoses are disconnected from control valve, snap caps (B) over coupler noses.

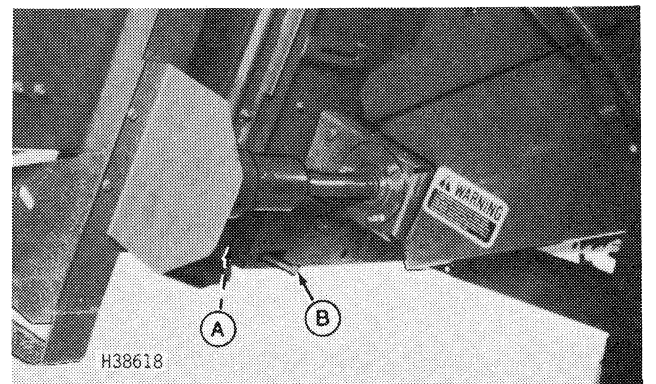
11. (6620, 7720, 7721 and 8820) Disconnect variable feeder house hose (A) to control valve, only if changing to a cutting platform.
12. When variable feeder house hose is disconnected from control valve, insert plug (B) into coupler (A) and snap cap (C) over coupler nose. Store variable feeder house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



6620 - 7720 - 8820 Combines

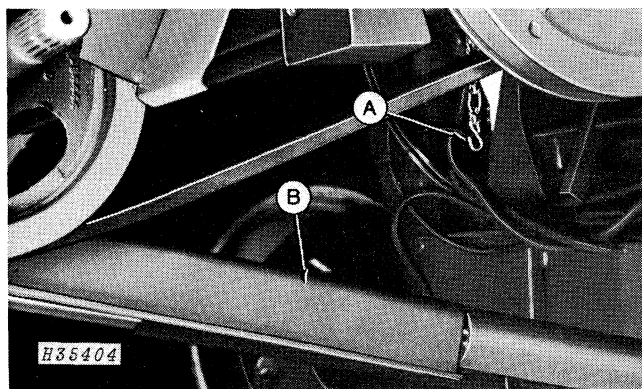
ATTACHING BELT PICKUP TO 4420 (600001-) AND 4425 COMBINES

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.



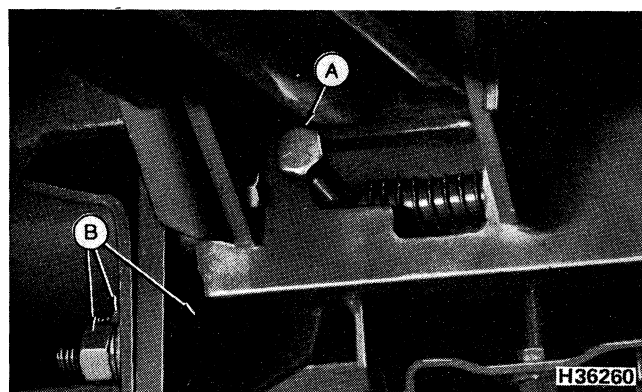
4425 Combine

10 Attaching and Detaching



H35404

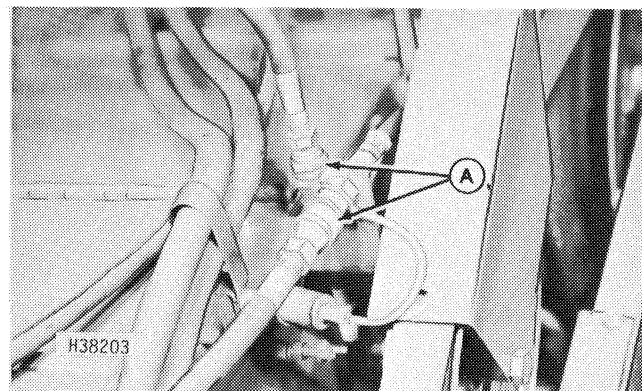
1. Honk horn, start engine and lower feeder house.
2. Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform, all the way up. Shut off engine and remove key.
3. Disconnect chain (A) and lower safety stop (B) on cylinder.



H36260

4. (Both sides) Slide and pivot stop bolt (A) up, and out to lock pin into header.

NOTE: Loosen mating lock plate (B) on platform 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.

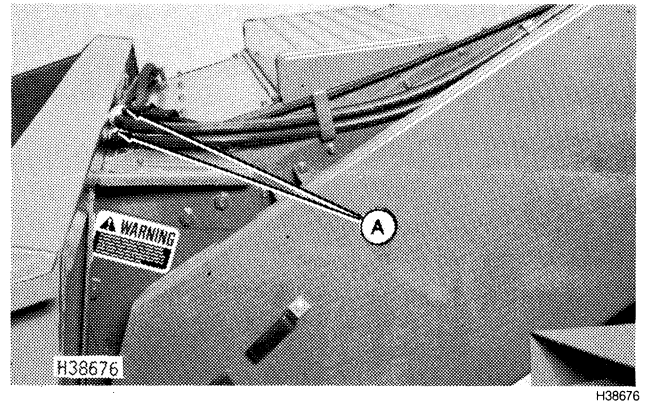


H38203

5. Connect DIAL-A-MATIC harness if equipped.
6. Connect both variable feeder house hoses at couplers (A) on left side of feeder house.

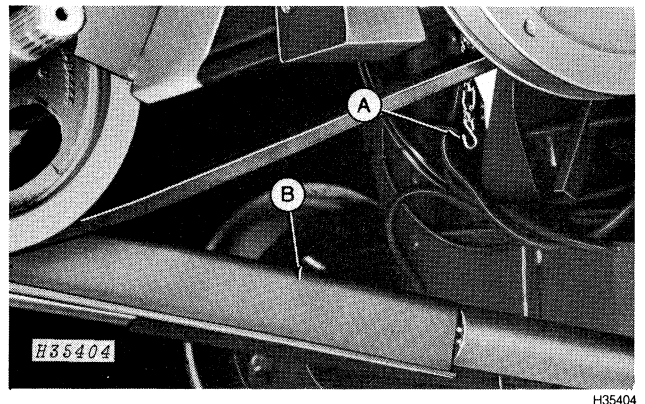
4420 Combine

7. Fasten two hoses to hose connectors at (A) from belt pickup motor. Lay hoses across feeder house as shown.
8. Honk horn, start engine and move the feeder house speed lever forward to close bottom variable sheaves. Minimum speed in lower feeder house drive shaft. Shut off engine and remove key.

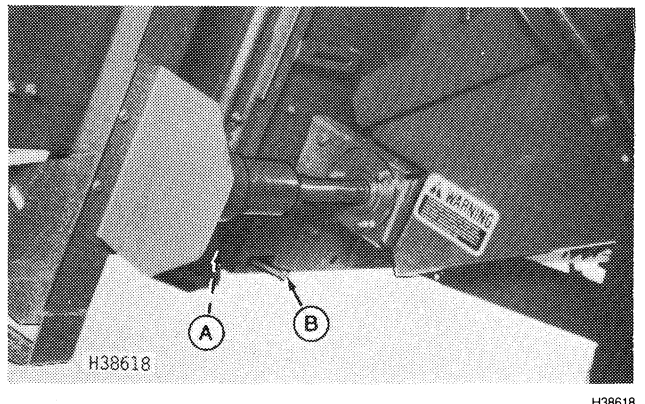


DETACHING BELT PICKUP FROM 4420 (600001-) and 4425 COMBINES

1. Honk horn, start engine and raise platform all the way up. Shut off engine and remove key.
2. Disconnect chain (A) and lower safety stop (B) on cylinder.

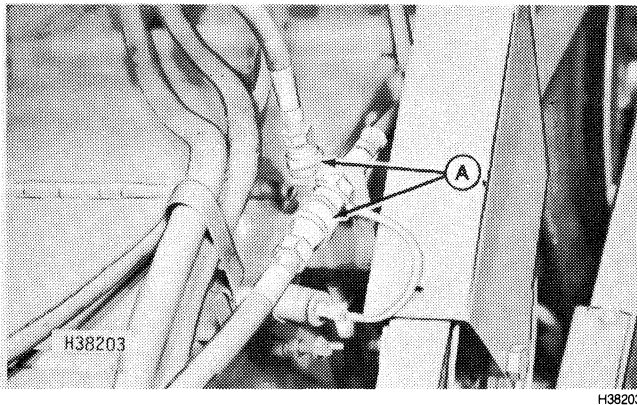


3. Disconnect DIAL-A-MATIC harness if equipped.
4. (Both sides) Slide and pivot stop bolt (B) down to let lock pin (A) unlock platform.
5. Raise safety stop (B) and hook on chain (A).
6. Honk horn, start engine and lower feeder house until platform is on ground and pivot blocks or hooks are free.
7. Drive slowly rearward until feeder house is clear of platform. Shut off engine and remove key.

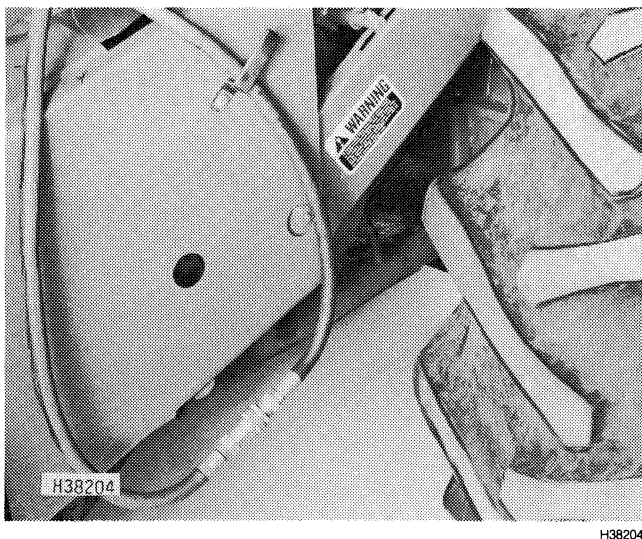


4425 Combine

12 Attaching and Detaching



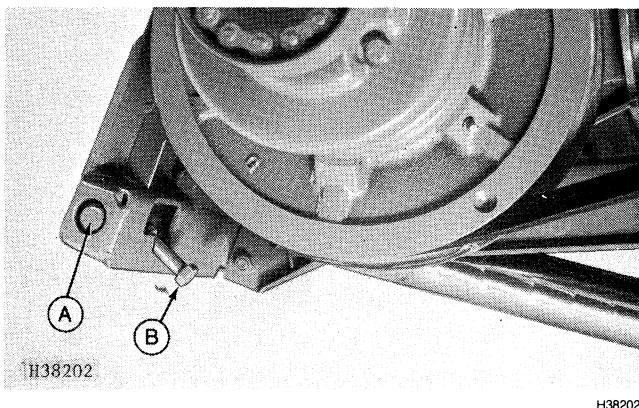
8. Disconnect both variable feeder house hoses at couplers (A) on left side of feeder house only if changing to a cutting platform.
9. Disconnect both hoses to belt drive motor at connectors on feeder house.



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.

10. Store hoses as shown to prevent damage.

ATTACHING BELT PICKUP TO 6620, 7720, 7721 AND 8820 COMBINES (600001-)

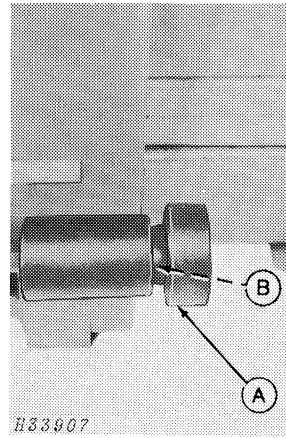


IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by sliding stop bolt (B) in and down. If pins are left in the out position, feeder house will be damaged when header is attached.

Install coupler on lower right-hand feeder house shaft in steps 1-4.

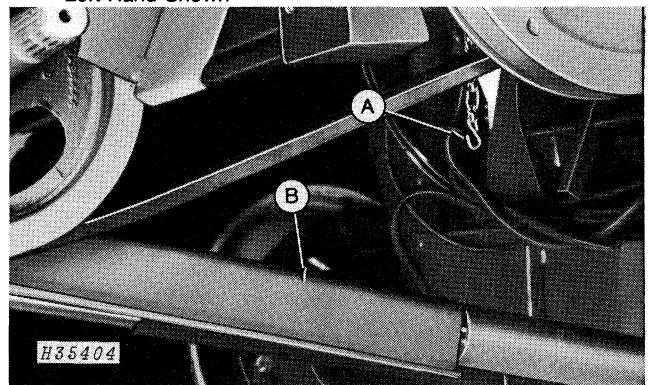
NOTE: *An extra coupler is shipped with 8820 Combine and must be installed on right-hand shaft as follows:*

1. (Not illustrated) Remove snap ring on right-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).



H33907

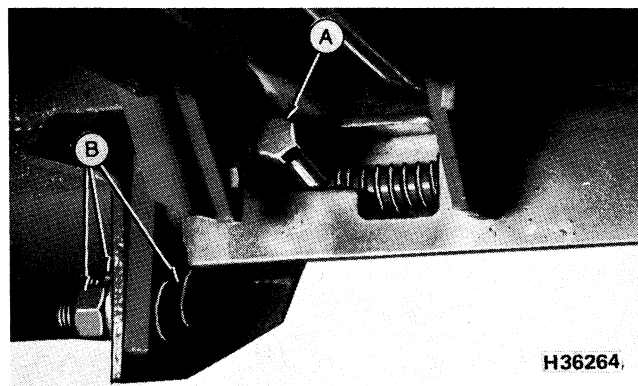
Left-Hand Shown



H35404

5. Honk horn, start engine and lower feeder house.
6. Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Shut off engine and remove key.
7. Disconnect chain (A) and lower safety stop (B) on cylinder.

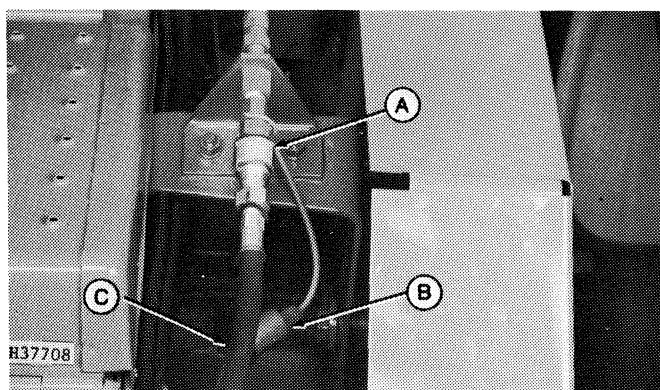
14 Attaching and Detaching



H36264

8. (Both sides) Pivot stop bolt (A) up to let lock pin lock into header.

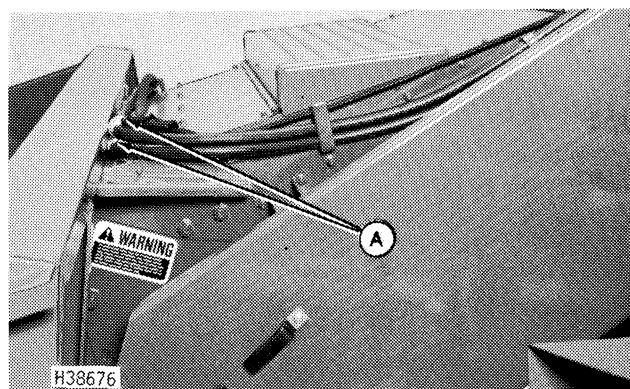
NOTE: Loosen mating lock plate (B) on the row-crop head, to let lock pin center. Retighten lock plate.



H37708

9. Connect DIAL-A-MATIC if equipped.
10. 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.
11. Honk horn, start engine and move feeder house speed lever to close bottom variable sheaves. Shut off engine and remove key.

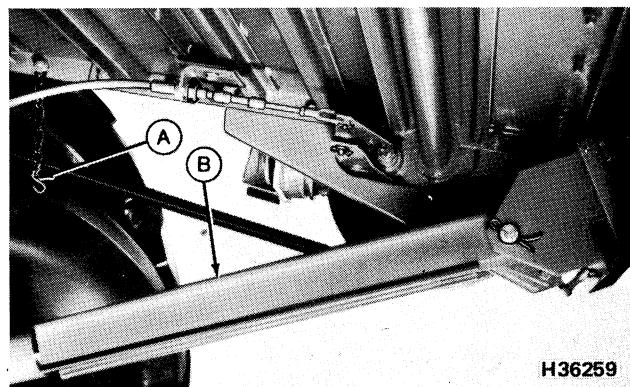
12. Fasten two hoses to hose connectors at (A) from belt pickup motor. Lay hoses across feeder house as shown.



H38676

DETACHING BELT PICKUP FROM 6620, 7720, 7721 AND 8820 COMBINES (600001-)

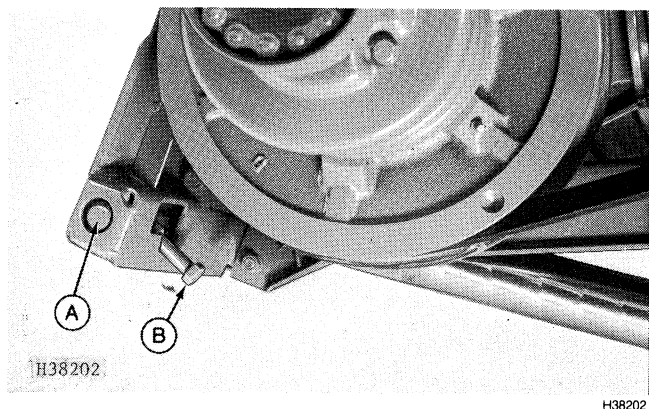
1. Honk horn, start engine and raise platform all the way up. Shut off engine and remove key.
2. Disconnect chain (A) and lower safety stop (B) on cylinder.



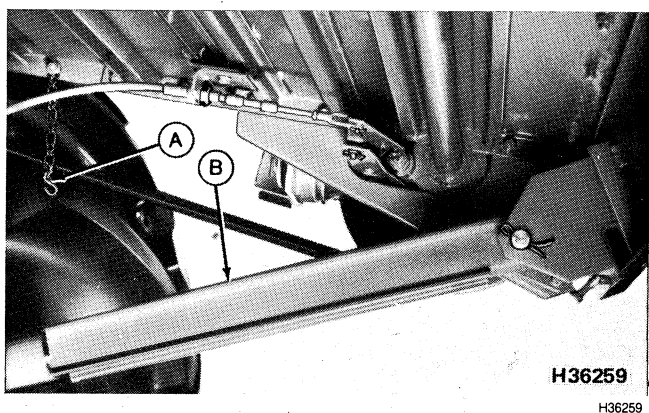
H36259

H36259

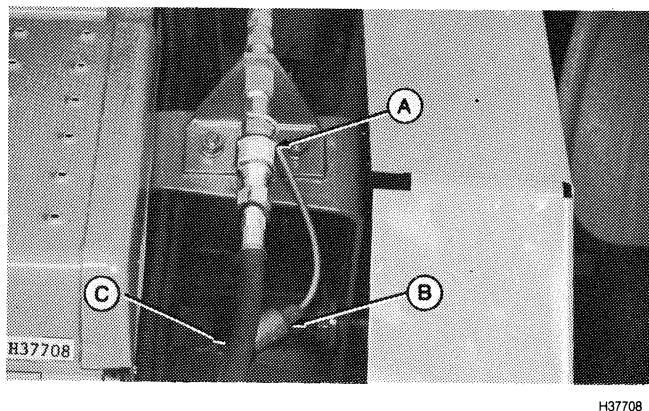
16 Attaching and Detaching



3. Slide right-hand coupler off sprockets and chain and unwrap chain.
4. Disconnect DIAL-A-MATIC header height control harness if equipped.
5. (Both sides) Slide and pivot stop bolt (B) down, to let lock pin (A) unlock platform.



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

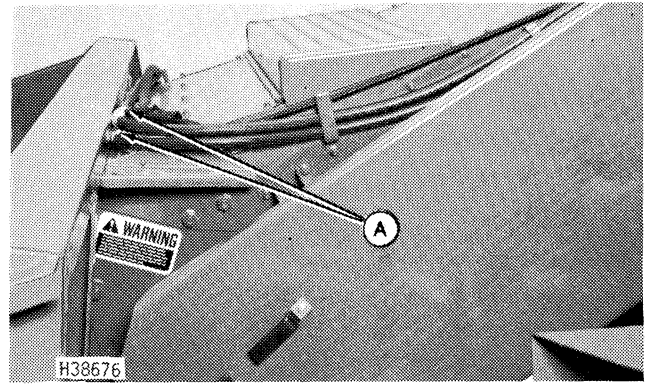


7. Reel lift hose must be connected to connector on bracket for use of variable feeder house drive. When hose is disconnected from fitting use cap (B) and plug (C) to cover open hose ends.

8. Disconnect both hoses to belt drive motor and connectors (A) on feeder house.

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.

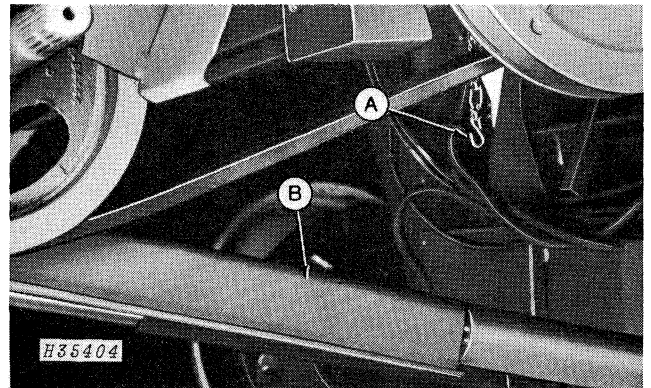
9. Honk horn, start engine and lower feeder house until platform is on ground and pivot blocks are free.
10. Drive slowly rearward until feeder house is clear of platform. Shut off engine and remove key.



H38676

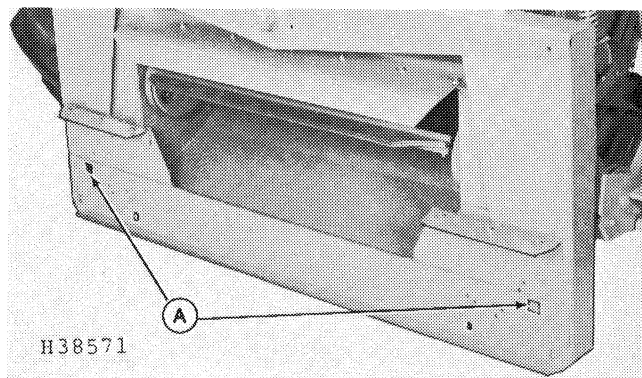
ATTACHING BELT PICKUP TO SIDEHILL 6620 COMBINE (-403300)

1. Honk horn, start engine and lower feeder house.
2. Drive slowly forward until feeder house is centered in platform opening. Raise feeder house lifting platform all the way up. Shut off engine and remove key.
3. Disconnect chain (A) and lower safety stop (B) on cylinder.



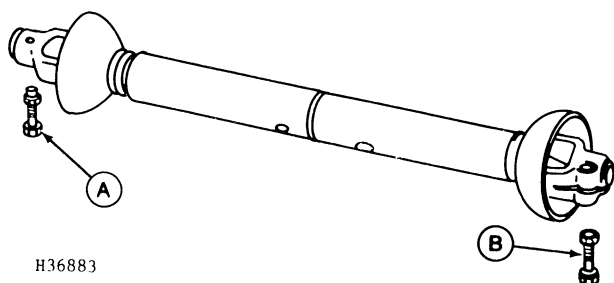
H35404

18 Attaching and Detaching



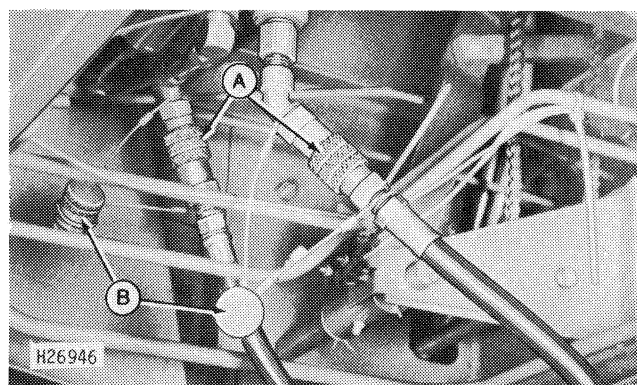
H38571

4. Secure platform to feeder house with four 1/2 x 1-1/2-in. round head bolts and 17/32 x 1-1/4 x .180-in. flat washers.



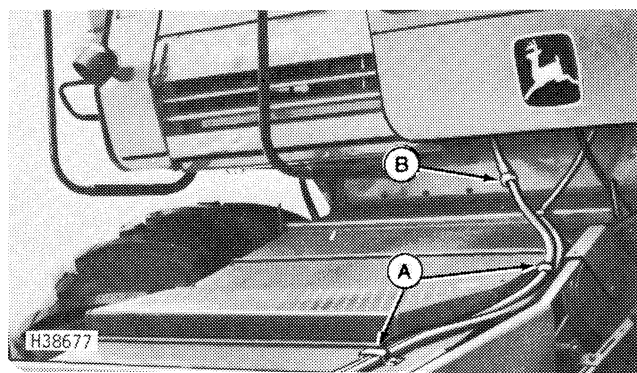
H36883

5. (Right-Hand only) Install telescoping drive shaft between platform and feeder house.
6. Install 5/16 x 2-1/2-in. cap screw (A) then tighten cap screw (B) in clamp on inner end of telescoping drive shaft.
7. Connect Automatic Header Height Control harness if equipped.



H26946

8. Connect both variable feeder house hoses at couplers (A) under operator's platform.

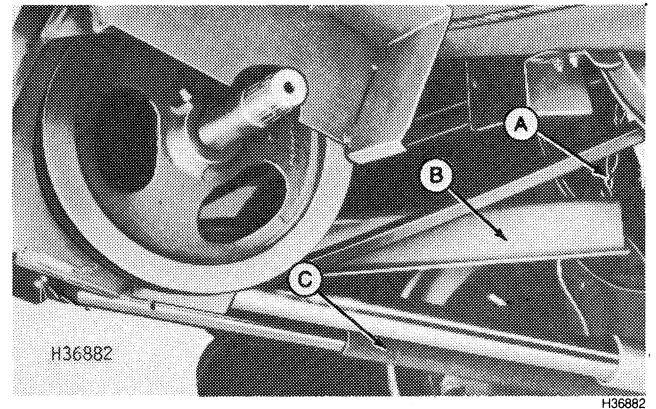


H38677

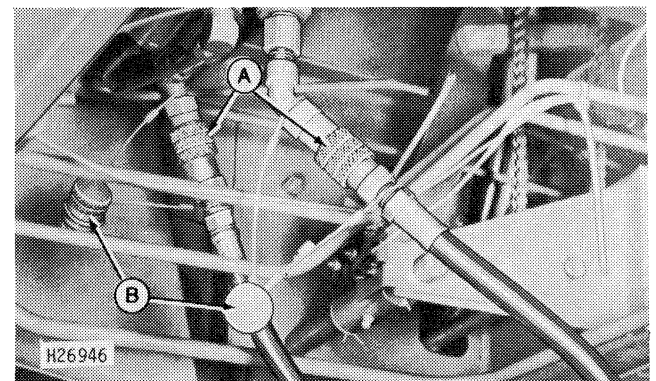
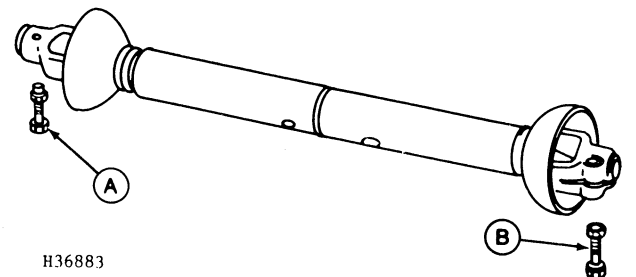
9. Route hoses thru clamps (A) on feeder house.
10. Connect hoses to couplers (B) from control valve.
11. Honk horn, start engine and move feeder house speed lever rearward to close bottom variable sheaves. Minimum speed on digital tach. Shut off engine and remove key.

DETACHING BELT PICKUP FROM SIDEHILL 6620 COMBINES (-403300)

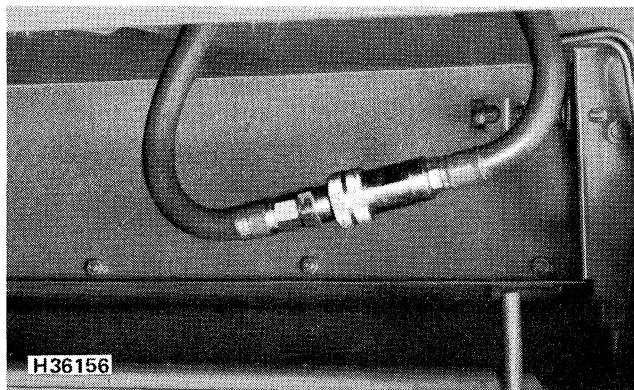
1. Honk horn, start engine and raise platform all the way up. Shut off engine and remove key.
2. Disconnect chain (A) and lower safety stop (B) on cylinder (C).



3. (Right-Hand Only) Remove 5/8 x 2-1/2-in. cap screw (A) then loosen cap screw (B) in clamp and disconnect telescoping drive shaft.
4. Disconnect Automatic Header Height Control harness if equipped.
5. Remove four 1/2 x 1-1/2-in. round head bolts and 17/32 x 1-1/4 x .180-in. flat washers.
6. Disconnect both variable feeder house hoses at couplers (A) under operator's platform only if changing to cutting platform.
7. When variable feeder house hoses are disconnected from control valve snap caps (B) over coupler noses.
8. Disconnect hoses from couplers (B) from control valve.
9. Remove hoses from clamps (A) and store on platform.
10. Raise safety stop and hook on chain.
11. Honk horn, start engine and lower feeder house until platform is on ground and pivot blocks are free.
12. Drive slowly rearward until feeder house is clear of platform. Shut off engine and remove key.



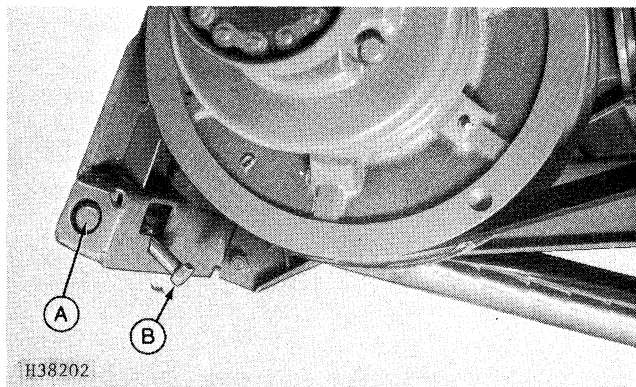
H26946



H36156

IMPORTANT: Hoses must be connected together when disconnecting 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.

ATTACHING BELT PICKUP TO SIDEHILL 6620 COMBINE (403301-600000)



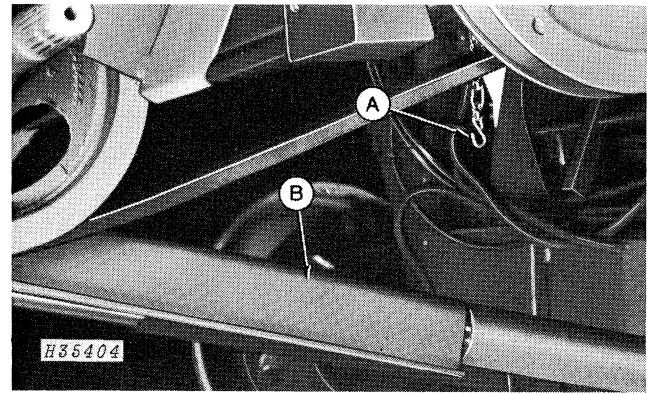
H38202

6620 Combine Illustrated

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.

1. Honk horn, start engine and lower feeder house.
2. Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Shut off engine and remove key.

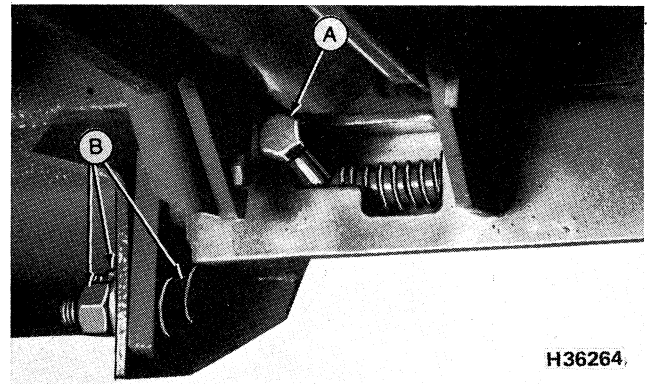
3. Disconnect chain (A) and lower safety stop (B) on cylinder.



H35404

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

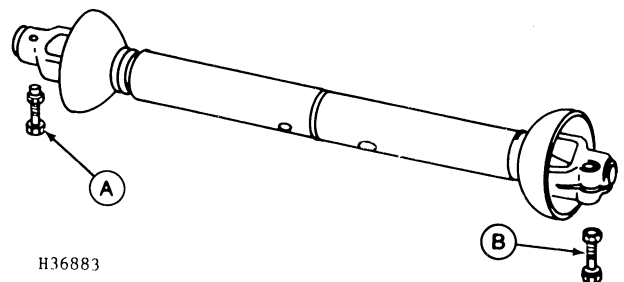
NOTE: Loosen mating lock plate (B) on platform, to let lock pin center. Retighten lock plate.



H36264

H36264

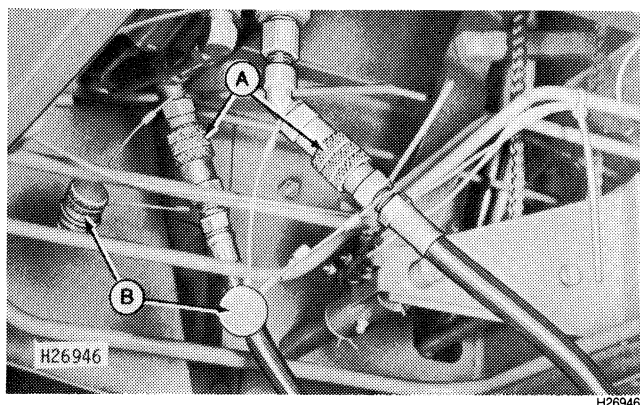
5. (Right-Hand Only) Install telescoping drive shaft between platform and feeder house.
6. Secure cap screw (B) on inner end of telescoping drive shaft and install 5/16 x 2-1/2-in. cap screw (A), lock washer and nut thru outer end.
7. Connect Automatic Header Height Control or DIAL-A-MATIC harness if equipped.



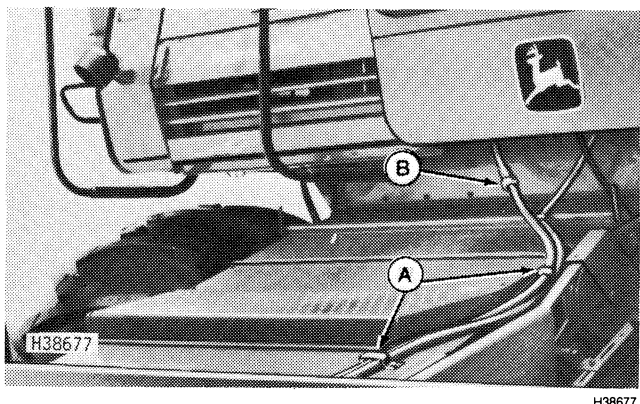
H36883

H36883

Left-Hand Drive Shaft



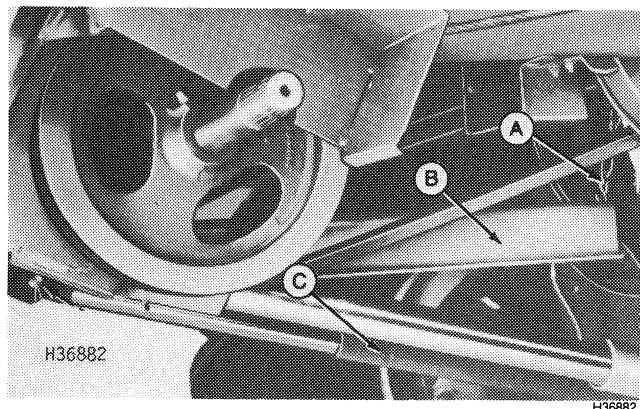
8. Connect both variable feeder house hoses at couplers (A) under operator's platform.



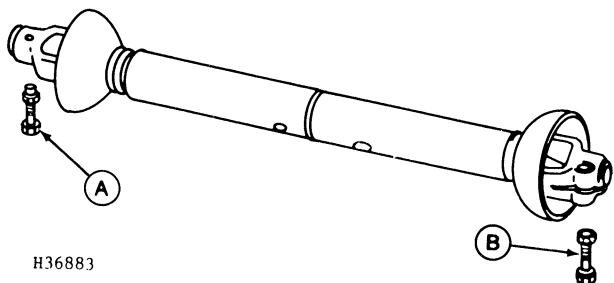
9. Route hoses thru clamps (A) on feeder house.
10. Connect hoses to couplers (B) from control valve.
11. Honk horn, start engine and move feeder house speed lever rearward to close bottom variable sheaves. Minimum speed on digital tach. Shut off engine and remove key.

6620 Combine

DETACHING BELT PICKUP FROM SIDEHILL 6622 COMBINES (403301-600000)



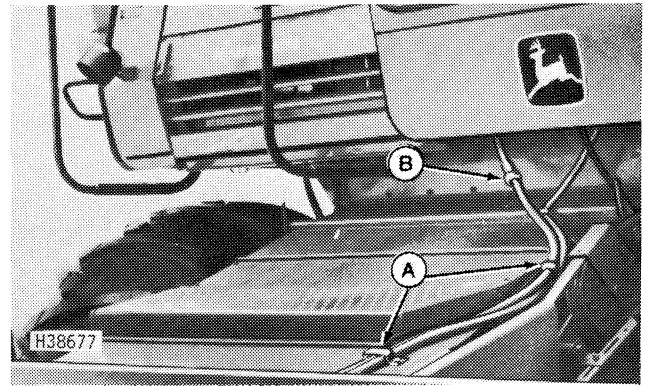
1. Honk horn, start engine and raise platform all the way up. Shut off engine and remove key.
2. Disconnect chain (A) and lower safety stop (B) on cylinder (C).



Left-Hand Drive Shaft

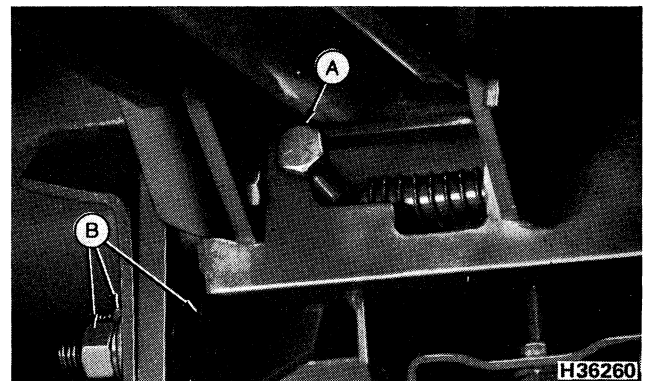
3. (Right-Hand Only) Loosen cap screw (B) on inner end and remove cap screw (A), then disconnect telescoping drive shaft at feeder house (shaft stays with header).
4. Disconnect Automatic Header Height Control or DIAL-A-MATIC harness if equipped.

5. Disconnect hoses from couplers (B) from control valve.
6. Remove hoses from clamps (A) and store on platform.



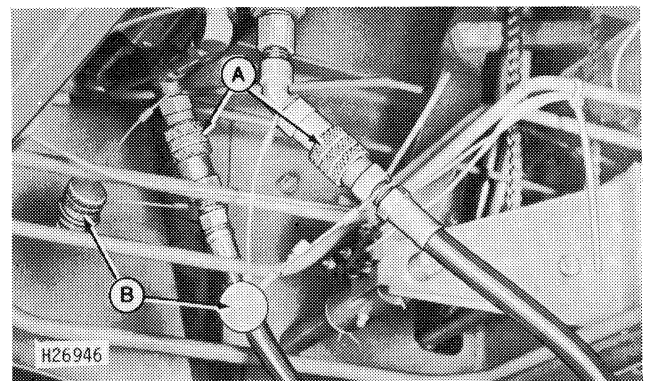
H38677

7. (Both Sides) Slide and pivot stop bolt (A) down, to let lock pin unlock platform.
8. Raise safety stop and hook on chain.
9. Honk horn, start engine and lower feeder house until platform is on ground and pivot blocks are free.
10. Drive slowly rearward until feeder house is clear of platform. Shut off engine and remove key.



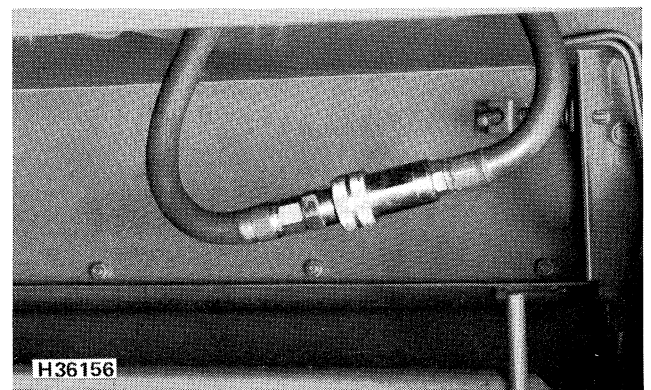
H36260

11. Disconnect both variable feeder house hoses at couplers (A) under operator's platform only if changing to platform.



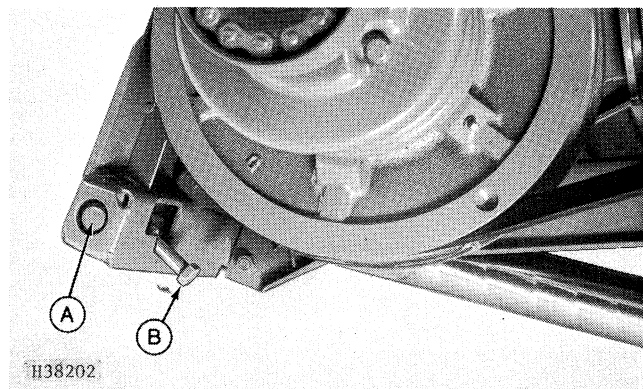
H26946

IMPORTANT: Hoses must be connected together when disconnecting 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.



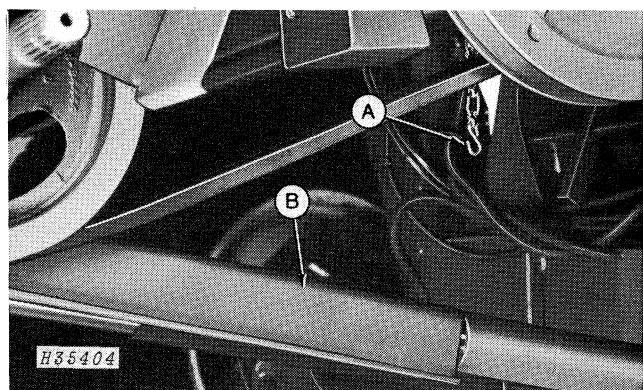
H36156

ATTACHING BELT PICKUP TO SIDEHILL 6620 COMBINE (600001-610000)



6620 Combine

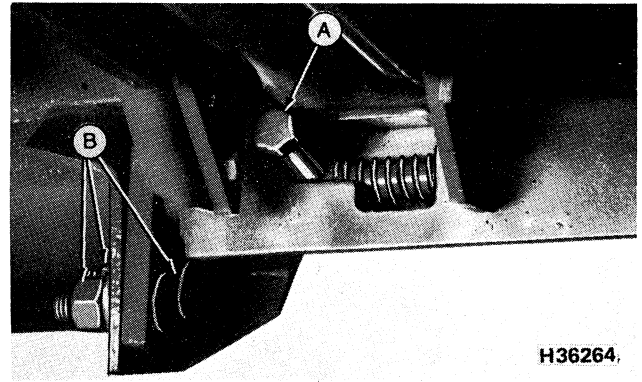
IMPORTANT: Lock pin (A) (both sides) must be moved in before attaching header. Move pin by sliding stop bolt (B) in and down. If pins are left in the out position, feeder house will be damaged when header is attached.



1. Honk horn, start engine and lower feeder house.
2. Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Shut off engine and remove key.
3. Disconnect chain (A) and lower safety stop (B) on cylinder.

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

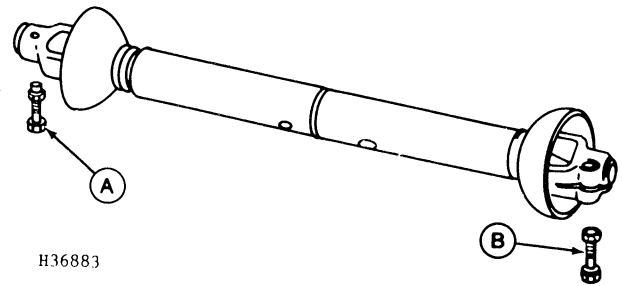
NOTE: Loosen mating lock plate (B) on the platform, to let lock pin center. Retighten lock plate.



H36264

H36264

5. (Right-Hand Only) Install telescoping drive shaft between platform and feeder house.
6. Secure cap screw (B) on inner end of telescoping drive shaft and install 5/16 x 2-1/2-in. cap screw (A), lock washer and nut thru outer end.
7. Connect DIAL-A-MATIC harness if equipped.

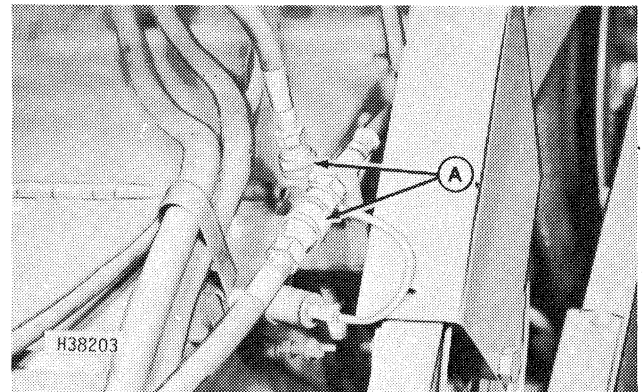


H36883

H36883

Left-Hand Drive Shaft

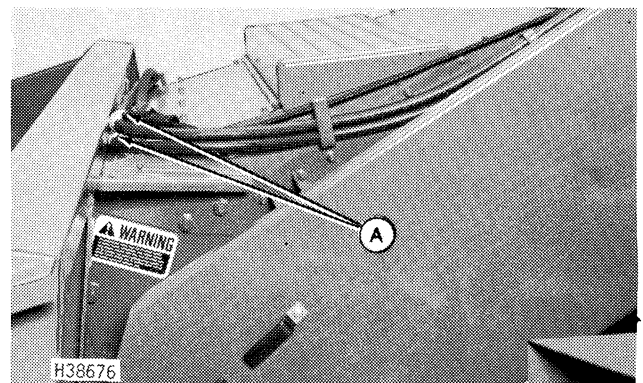
8. Connect both variable feeder house hoses at couplers (A) on left side of feeder house.



H38203

H38203

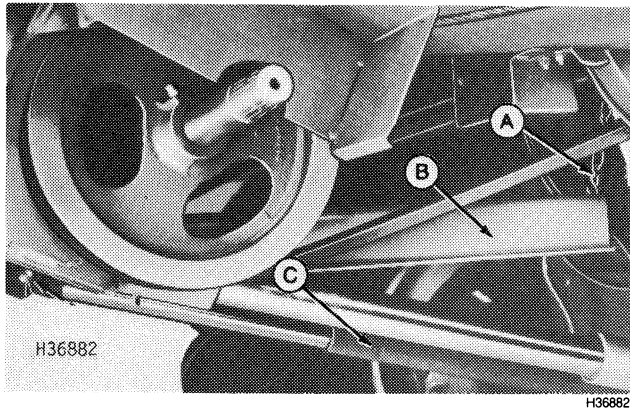
9. Fasten two hoses to connectors at (A) from belt pickup motor. Lay hoses across feeder house as shown.
10. Honk horn, start engine and move feeder house speed lever rearward to close bottom variable sheaves. Minimum speed on digital tach. Shut off engine and remove key.



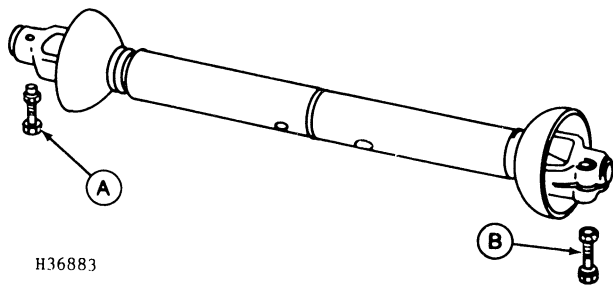
H38676

H38676

DETACHING BELT PICKUP FROM SIDEHILL 6620 COMBINE (600001-610000)

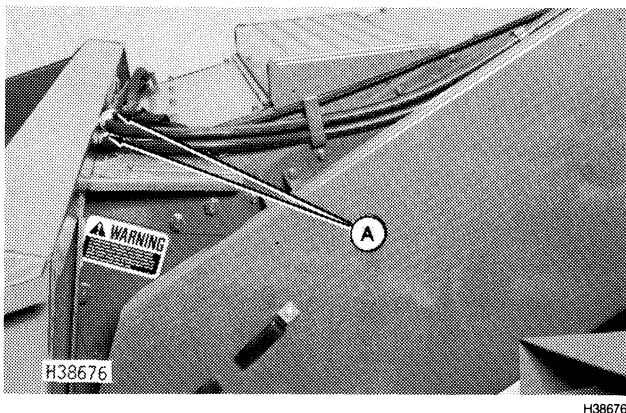


1. Honk horn, start engine and raise platform all the way up. Shut off engine and remove key.
2. Disconnect chain (A) and lower safety stop (B) on cylinder (C).



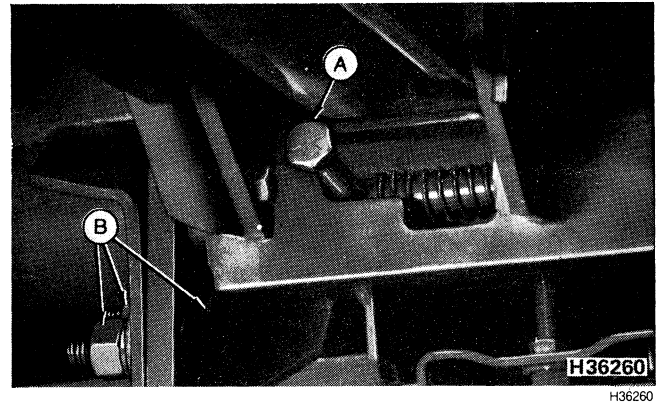
3. (Right-Hand Only) Loosen cap screw (B) on inner end and remove cap screw (A) then disconnect telescoping drive shaft at feeder house (shaft stays with header).
4. Disconnect DIAL-A-MATIC harness if equipped.

Left-Hand Drive Shaft

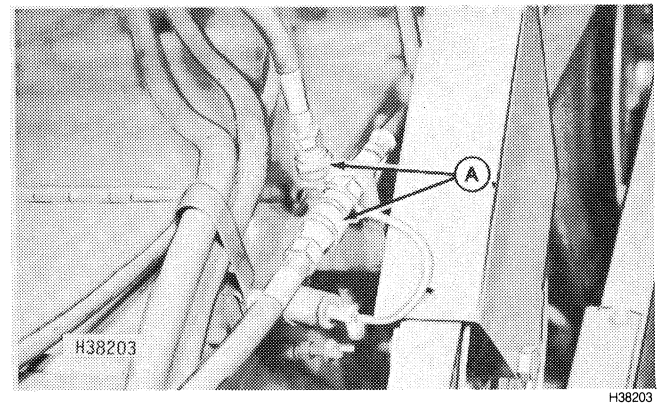


5. Disconnect two hoses from connectors at (A) from belt pickup motor. Long hoses stay with platform.

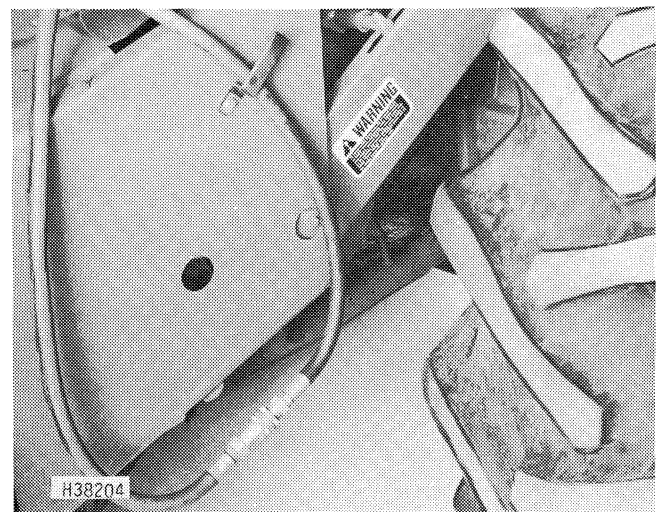
6. (Both Sides) Slide and pivot stop bolt (A) down, to let lock pin unlock platform.
7. Raise safety stop and hook on chain.
8. Honk horn, start engine and lower feeder house until platform is on ground and pivot blocks are free.
9. Drive slowly rearward until feeder house is clear of platform. Shut off engine and remove key.



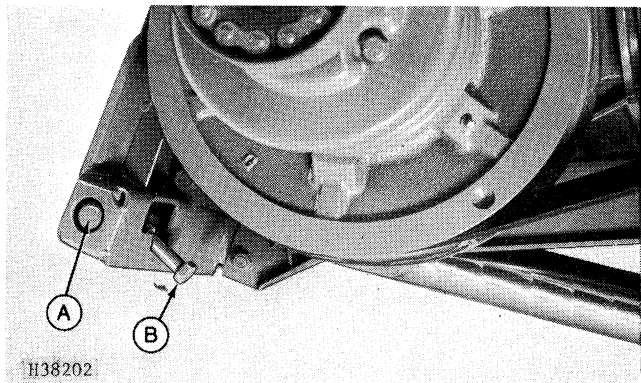
10. Disconnect both variable feeder house hoses at couplers (A) on left side of feeder house only if changing to a platform.



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.



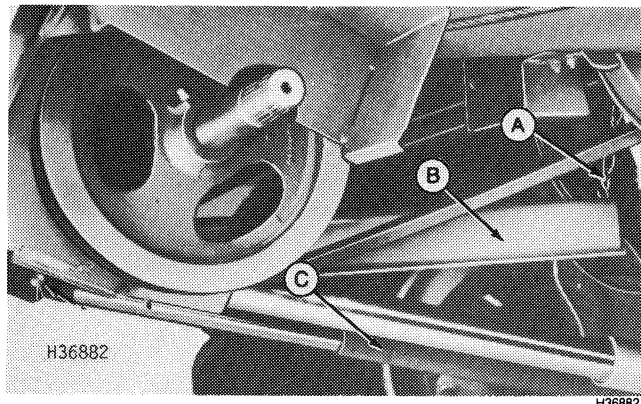
ATTACHING BELT PICKUP TO SIDEHILL 6620 COMBINE (610001-)



6620 Combine

H38202

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.

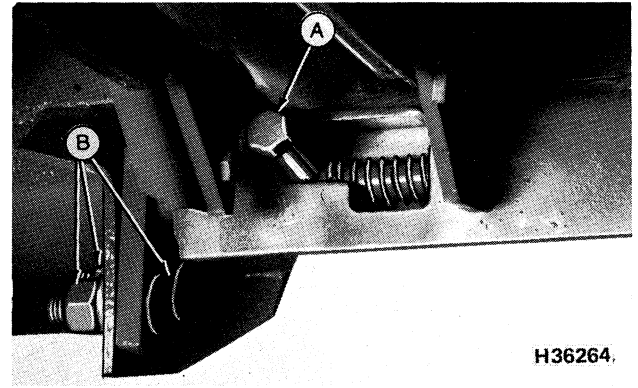


H36882

1. Honk horn, start engine and lower feeder house.
2. Drive slowly forward until feeder house is centered in platform opening. Raise feeder house, lifting platform all the way up. Shut off engine and remove key.
3. Disconnect chain (A) and lower safety stop (B) on cylinder (C).

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

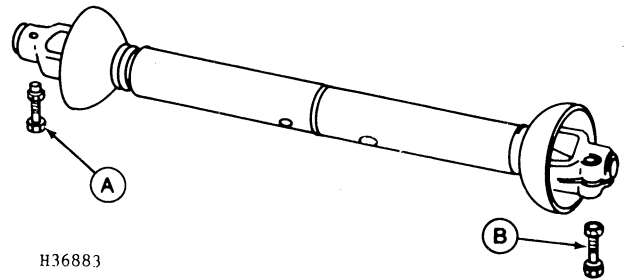
NOTE: Loose mating lock plate (B) on the platform, to let lock pin center. Retighten lock plate.



H36264,

H36264

5. (Right-Hand Only) Install telescoping drive shaft between platform and feeder house.
6. Secure cap screw (B) on inner end of telescoping drive shaft and install 5/16 x 2-1/2-in. cap screws (A), lock washer and nut thru outer end.
7. Connect DIAL-A-MATIC harness if equipped.

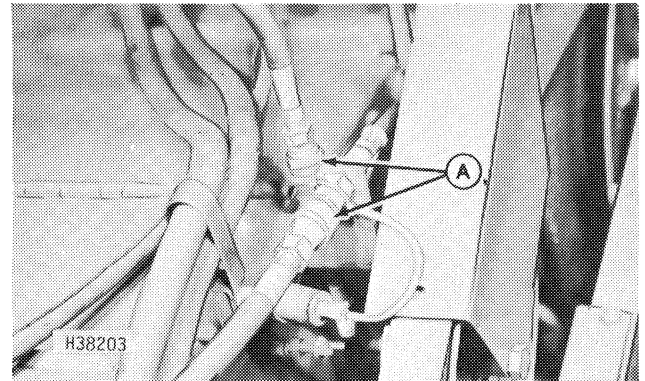


H36883

H36883

Left-Hand Drive Shaft

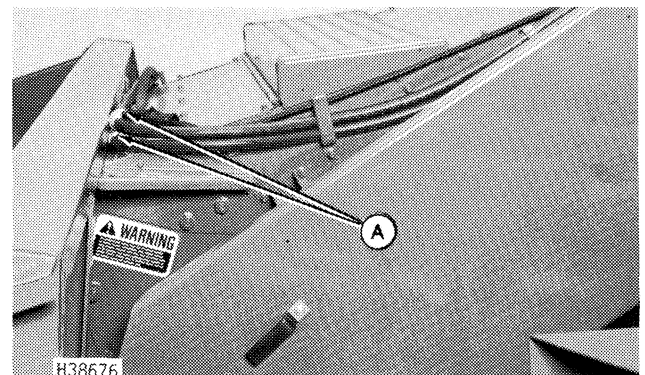
8. Connect both variable feeder house hoses at couplers (A) on left side of feeder house.



H38203

H38203

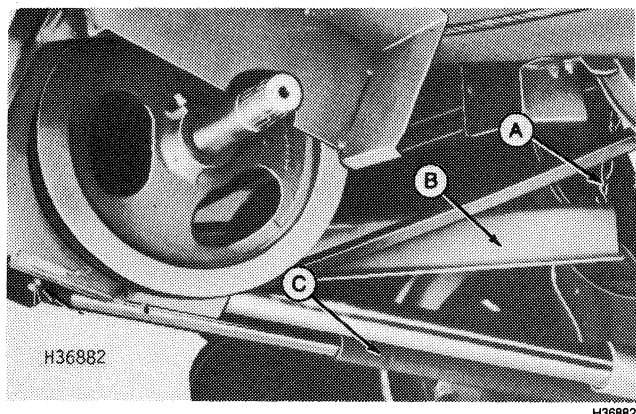
9. Fasten two hoses to connector at (A) from belt pickup motor. Lay hoses across feeder house as shown.
10. Honk horn, start engine and move feeder house speed lever rearward to close bottom variable sheaves. Minimum speed on digital tach. Shut off engine and remove key.



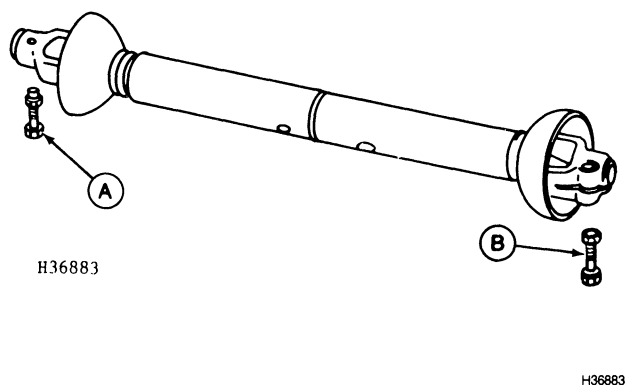
H38676

H38676

DETACHING BELT PICKUP FROM SIDEHILL 6620 COMBINES (610001-)



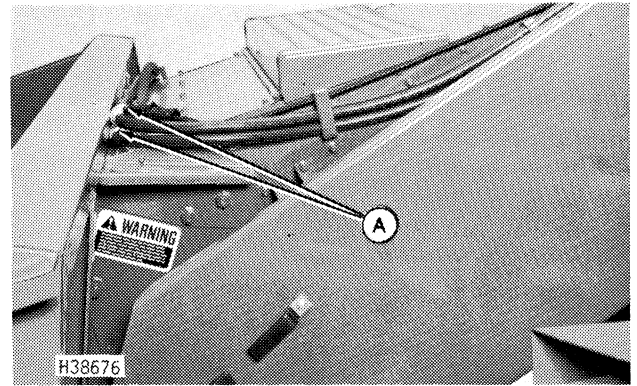
1. Honk horn, start engine and raise platform all the way up. Shut off engine and remove key.
2. Disconnect chain (A) and lower safety stop (B) on cylinder (C).



3. (Right-Hand Only) Loosen cap screw (B) on inner end and remove cap screw (A) then disconnect telescoping drive shaft at feeder house (shaft stays with header).
4. Disconnect DIAL-A-MATIC harness if equipped.

Left-Hand Drive Shaft

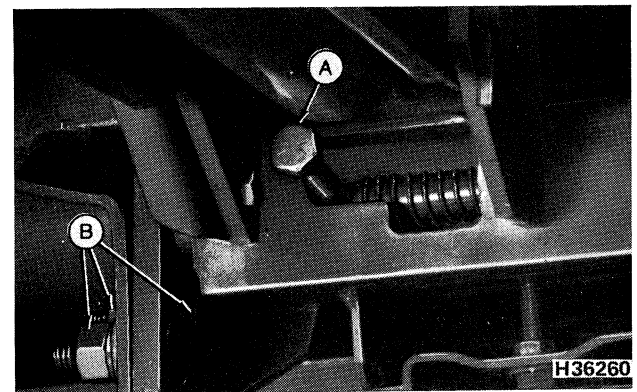
5. Disconnect two hoses from connectors at (A) from belt pickup motor. Long hoses stay with platform.



H38676

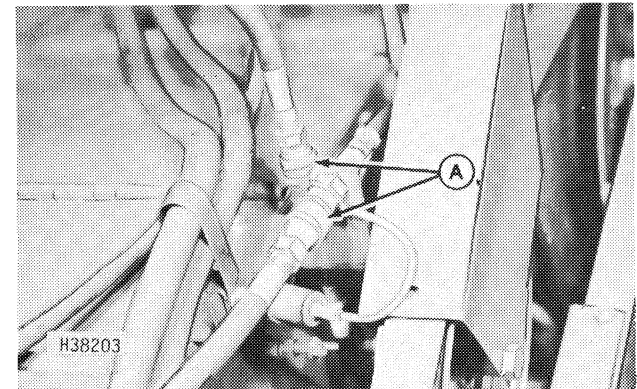
6. (Both Sides) Slide and pivot stop bolt down, to let lock pin unlock platform.
7. Raise safety stop and hook on chain.
8. Honk horn, start engine and lower feeder house until platform is on ground and pivot blocks are free.
9. Drive slowly rearward until feeder house is clear of platform. Shut off engine and remove key.

A—Stop Bolt
B—Lock Plate

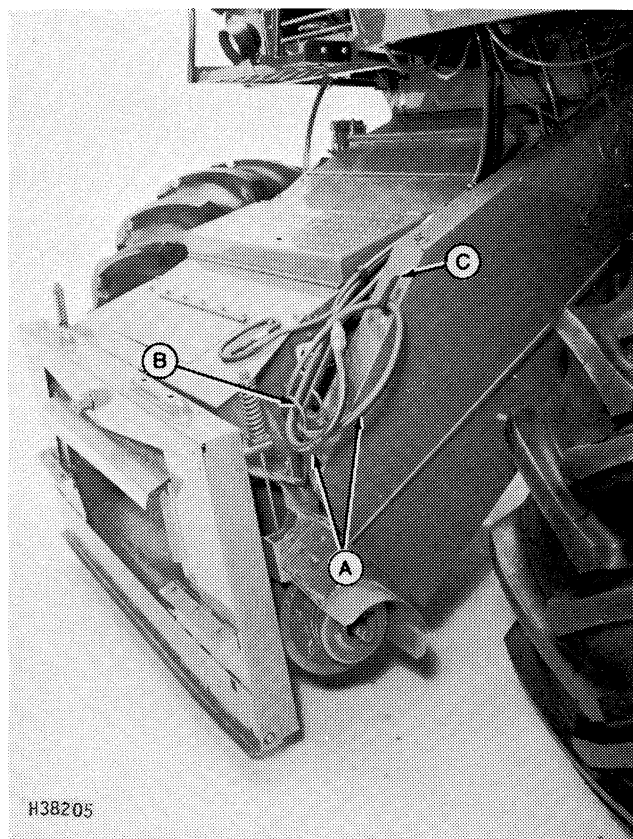


H36260

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



H38203



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.

11. Hoses (A) must go through holder (B) and hang into holder (C).

H38205

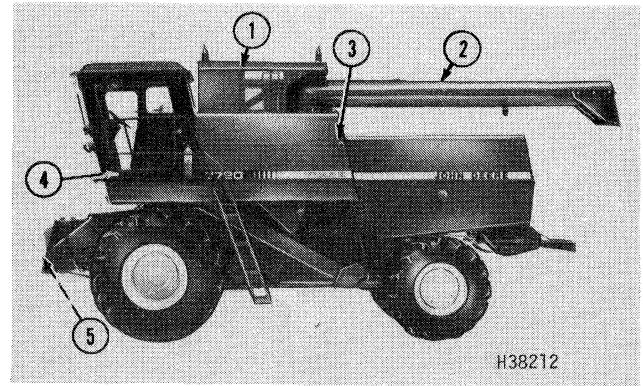


Transporting

Check local width laws before transporting.

The platform can be transported by leaving it attached to the combine.

1. Empty grain tank.
2. Swing unloading auger back and secure with transport brace.
3. Turn on combine flashing warning lights, unless prohibited by local law.
4. Couple combine brake pedals together.
5. Raise pickup platform to a position that will keep it off the ground but still allow good visibility.

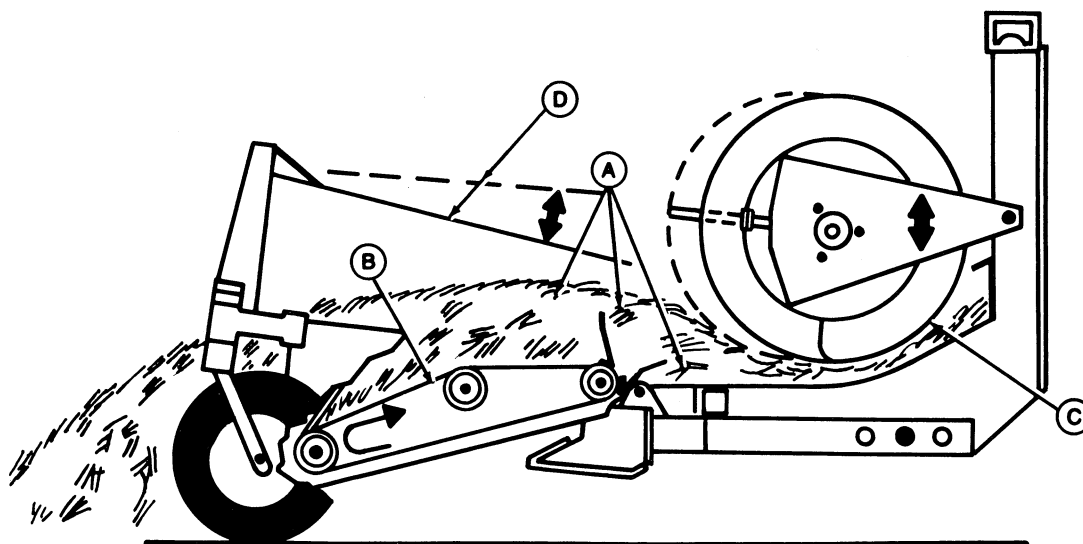


H38212



Operating the Platform

GENERAL INFORMATION



A—Crop Flow

B—Pickup Belts

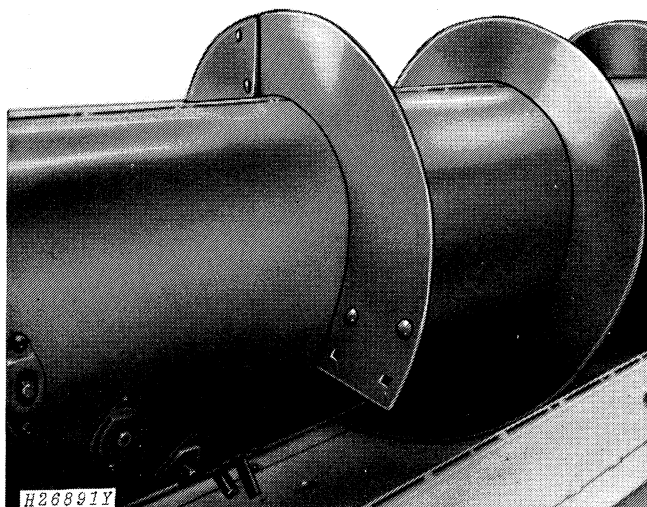
C—Auger

D—Floating Hold Down

H36914

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.

AUGER FLIGHT EXTENSIONS



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.

H26891

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.

6601 Mechanical Drive

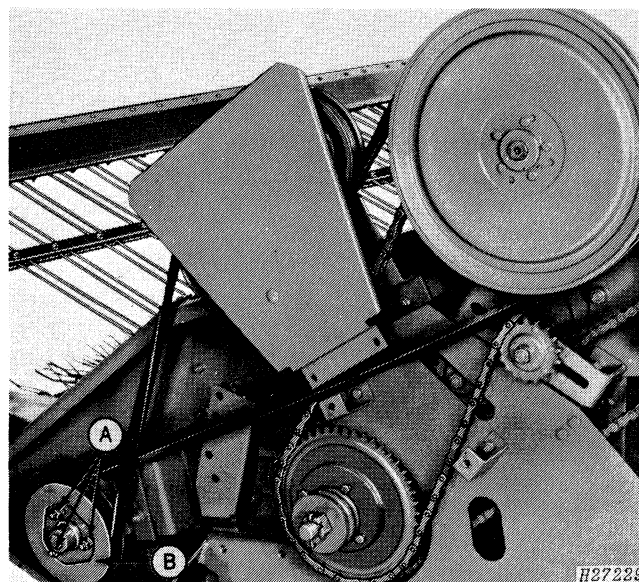
Speed ranges of 387 to 490 rpm on 6601 Combines are set by changing location of washers (A) on adjustable driven sheave (B).

To decrease speed, remove washers (A) from between sheave halves and place them on outside as shown.

To increase speed, add washers between sheave halves.

One set of washers changes speed approximately 23 rpm.

- A — Washers
B — Adjustable Driven Sheave



6601 Combine Illustrated

Hydrostatic Drive

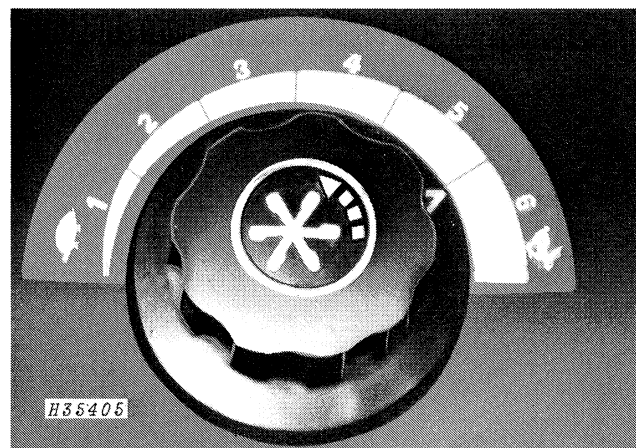
Hydrostatic belt pickup drive on all self-propelled combines lets the operator vary speed of belt pickup without leaving operator's platform.

Belt pickup speed is changed from 50 rpm to 450 rpm by turning control knob on console.

To increase pickup speed, turn knob to right.

To decrease pickup speed, turn knob to left.

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



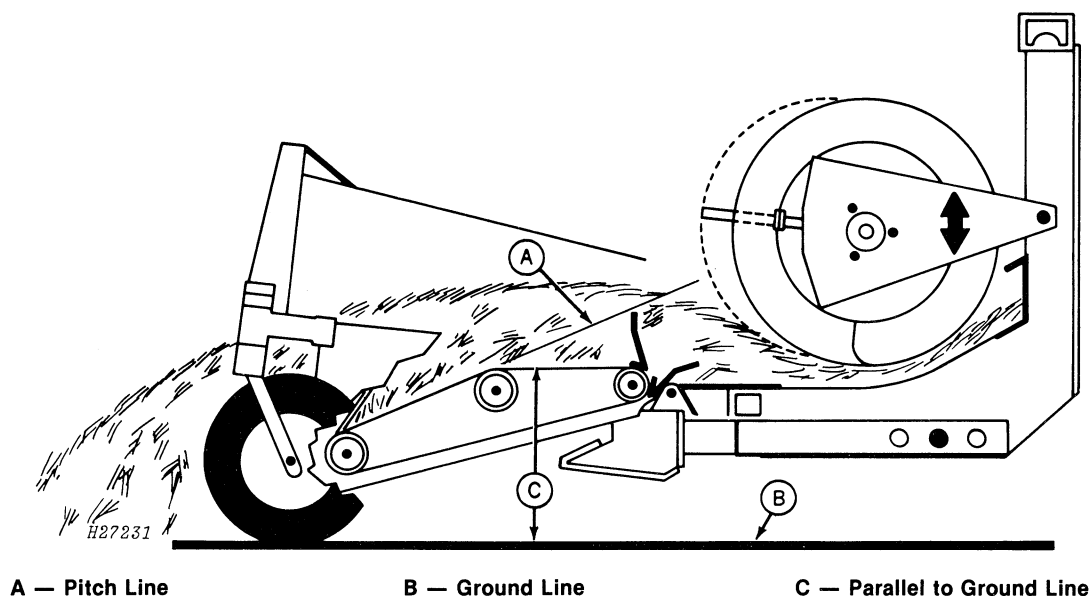
PICKUP PITCH

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.

Normal Windrow Condition

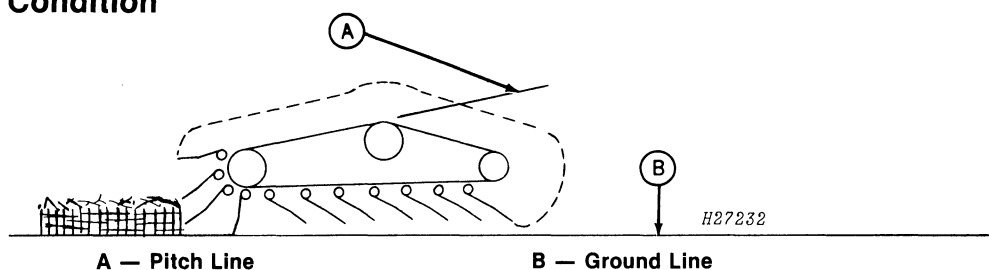


If ground conditions are normal and windrow is lying on top of stubble and off the ground, operate belt pickup as level as possible between center and drive rollers.

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 4-inch (102 mm) forward position. Rear position is used for short crops or damp windrow conditions. 4-inch (102 mm) forward position is used for medium length crops. 8-inch (203 mm) forward position is used for long straw crops.

Poor Windrow Condition

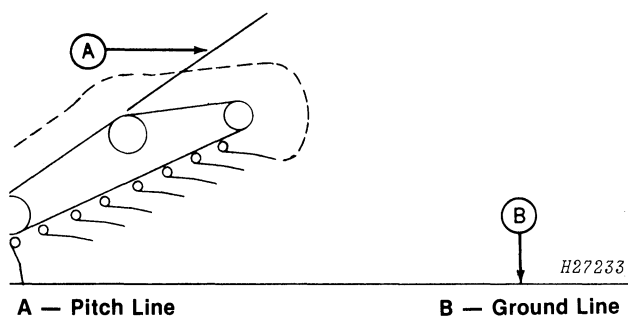


If windrow is embedded in stubble, if stubble is short, or if windrow is lying on ground, decrease the pitch of pickup. This lets more fingers come closer to ground, for better combing action.

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 1/2 inch (13 mm) at a time until fingers no longer dig into ground. (See Adjusting Gauge Wheels.)

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.

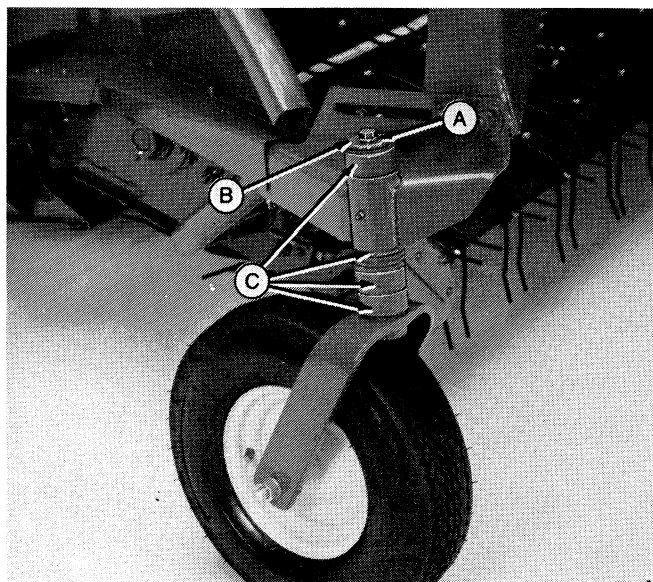
IMPORTANT: When operating in this position, gauge wheels must be in full contact with ground to prevent missing strips of crop.

Increased pitch may feed windrow higher than normal to auger.

Adjust hold-down to its lowest position and reduce speed of belt pickup. On 200 Series and Pickup Platforms Serial Number (217601-) move platform to 8-inch forward position.

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

PICKUP HEIGHT



H50131

- A — Cap Screw
- B — Washer
- C — Spacers

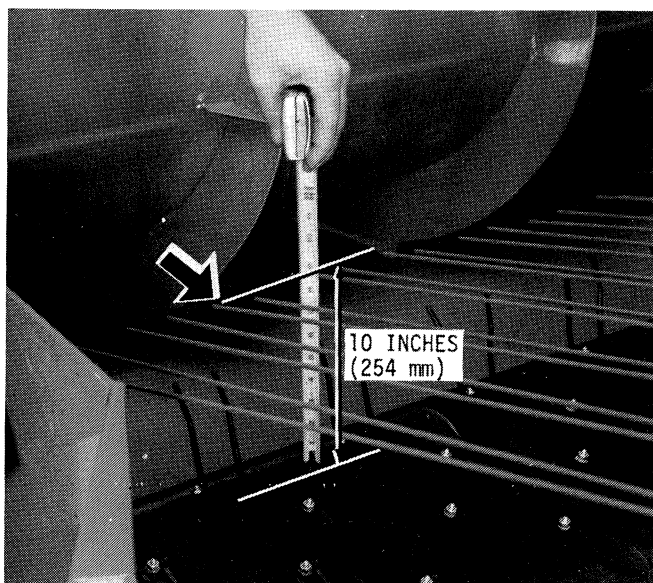
If pitch is altered considerably, check distance between pickup fingers and ground. Operate belt pickup just low enough to allow pickup fingers to gather in all the crop, but high enough so fingers do not dig into ground.

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.

Adjusting Gauge Wheels

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).

ADJUSTING WINDROW HOLD-DOWN



H50132

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 fingers are 10-inches (254 mm) from roller as shown. This is important to assure proper feeding under platform auger.

6601 Belt Pickup

To adjust hold-down, loosen cap screws (A) and lift or push down on fingers until correct height is reached. Tighten cap screws (A) after adjusting.

The hold-down is adjusted when belt pickup is in mid position and should be left in this position in most cases.

If the windrow is very light with short straw and the belt pickup is moved to the LOW POSITION, hold-down should be placed in LOW POSITION.

Check that there is still a 10-inch (254 mm) dimension from hold-down fingers to roller. Readjust if necessary.

Belt Pickup On Quik-Tatch, 200 Series, And Pickup Platforms

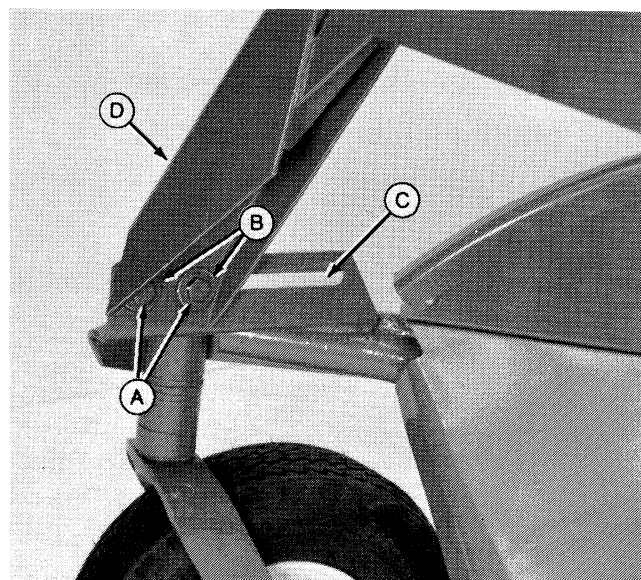
NOTE: Readjust hold-down in slot when pickup is adjusted in or out.

When pickup is in rear position, hold-down must be in front of slot.

When pickup is in mid-position, hold-down must be in center of slot.

When pickup is in outer position, hold-down must be in rear of slot.

- A — 1/2 x 1-1/2-inch Cap Screw
- B — 17/32 x 1-1/16 x .090-inch Flat Washers
- C — Adjusting Slot
- D — Support Arm

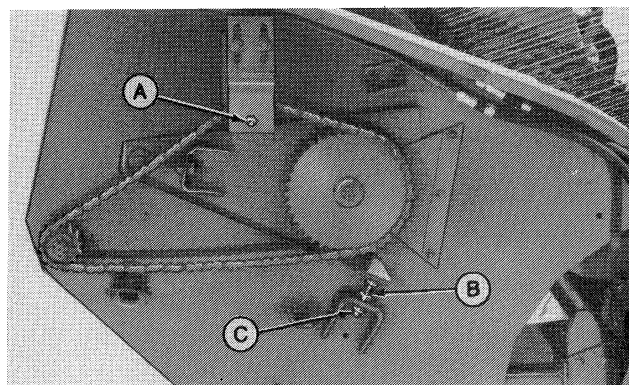


H50133

ADJUSTING AUGER

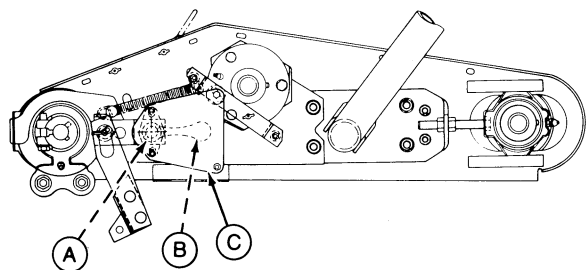
1. Loosen chain tightener (A).
2. Adjust auger to 1/4-in. (6 mm) between auger flights and bottom of platform. Loosen nut (B) and tighten nut (C) to move auger down. Loosen nut (C) and tighten nut (B) to move auger up. Tighten nuts (B) and (C).
3. Tighten chain tightener (A).

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



H38446

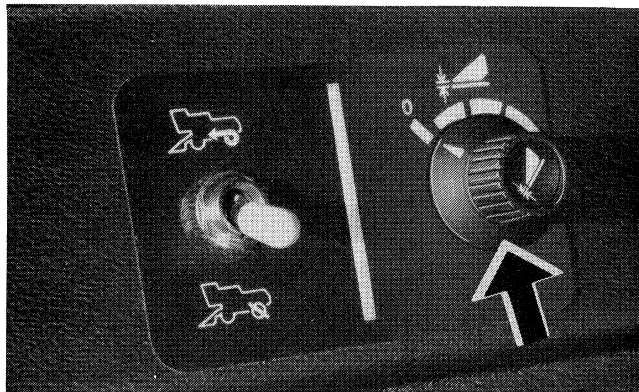
DIAL-A-MATIC HEADER HEIGHT CONTROL



H37760

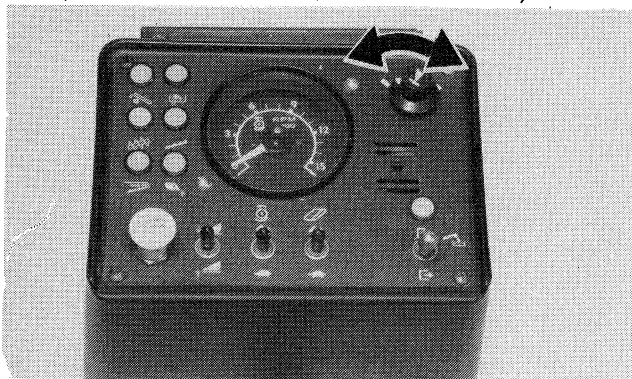
The belt pickup operated within a 2-in. (51 mm) float range. When the ground level moves the gauge wheels up, actuator arm (A) turns wiper arm (B) in housing (C). The movement of the wiper arm contacts one of five printed circuit pads in the housing.

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



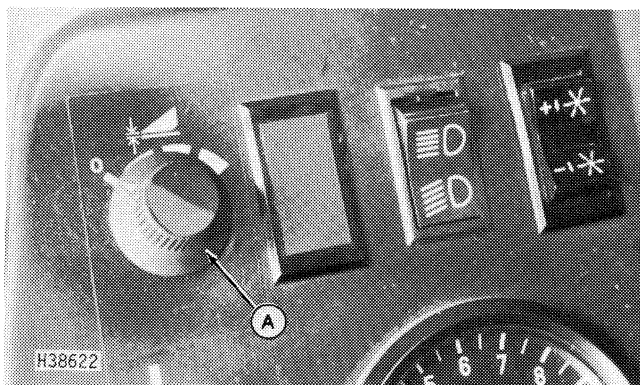
H50117

(6620, SideHill 6620, 7720, and 8820 Combines)



H37761

7721 Combine



H38622

H38622

4425 Combine

Electrical System

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.

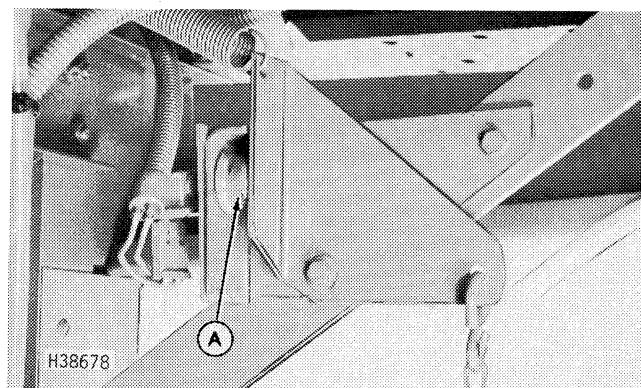
Control Switch

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

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

Actuating Switch

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



H38678

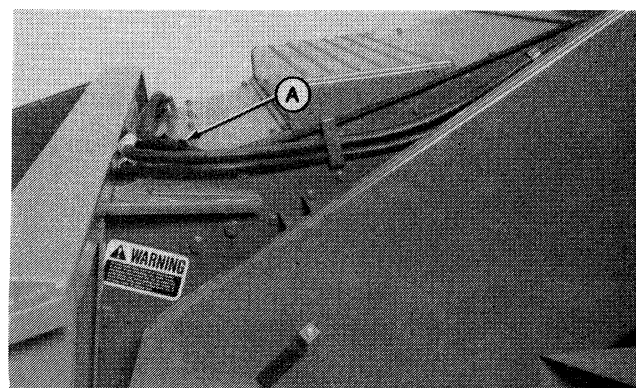
Switch Off - 4425 Combine

Disconnecting DIAL-A-MATIC

Disconnect wiring harness for DIAL-A-MATIC when header is removed from combine as follows:

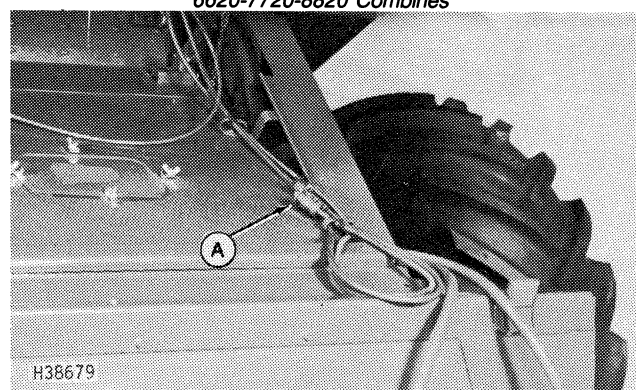
1. Pull connectors (A) apart.
2. Coil harness on feeder house.

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



H37762

6620-7720-8820 Combines

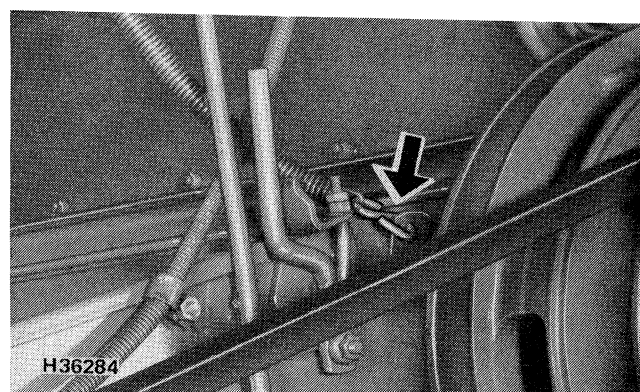


H38679

H38679

4425 Combine

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



H36284

H36284

6620-7720-8820 Combines

Hydraulic System

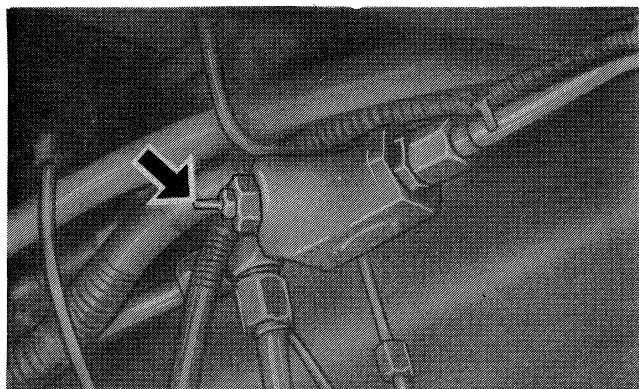
The hydraulic system supplies hydraulic oil to header lift cylinders to raise or lower header. The system consists of header lift cylinders, drop rate valve and auto header valve. The hydraulic system is started by the electrical system. Hydraulic oil is supplied from a pressure port in main control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

Auto Header Valve

The auto header valve gets oil from the unloading auger control valve on 4420, 6620, SideHill 6620, 7720 and 8820 Combines. The 7721 Combine gets its oil from the tractor hydraulic system. Oil flowing between the auto header valve and header lift cylinders is directed through the drop rate valve. Return oil is directed back to main hydraulic reservoir. When DIAL-A-MATIC is not on, a check valve in auto header valve and a lockout poppet in main hydraulic system control valve, trap oil to support header.

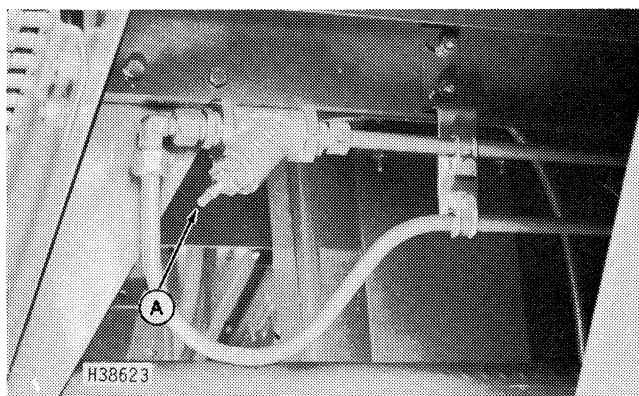
Drop Rate Valve

The drop rate valve 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.



H38447

6620-7720-8820 Combines



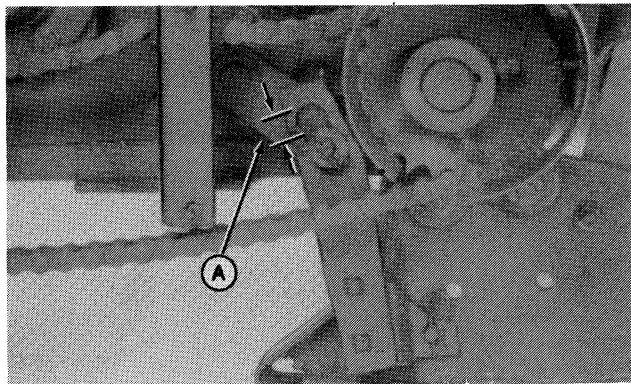
H38623

H38623

4425 Combine

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

ADJUSTMENTS



Left-Hand Side Not To Top of Slot

H37763

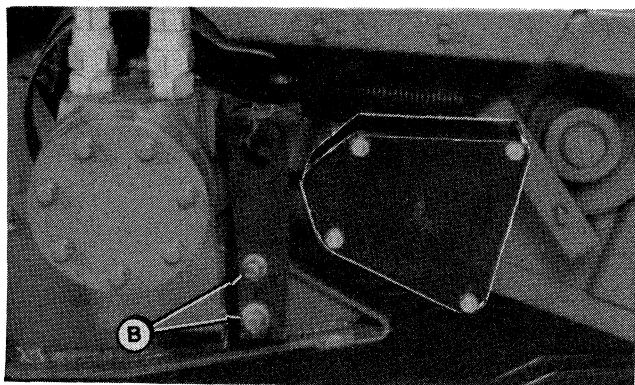
Linkage

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 (A) in top of slot 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 — Not To Top of Slot



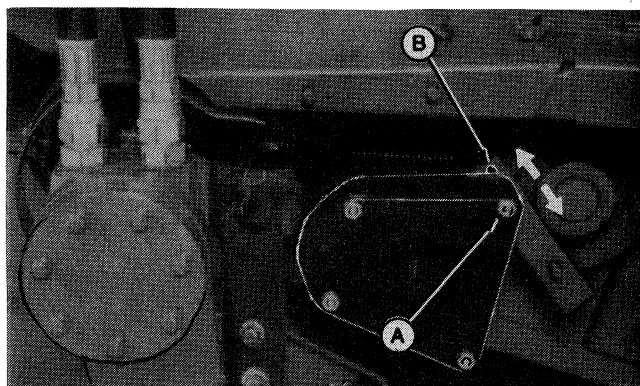
Right-Hand To Top of Slot

H37764

B — Adjusting Bolts

Housing

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 wind-row conditions, switch must be in first position and for rocky conditions, the switch must be in third position. See Pickup Pitch.

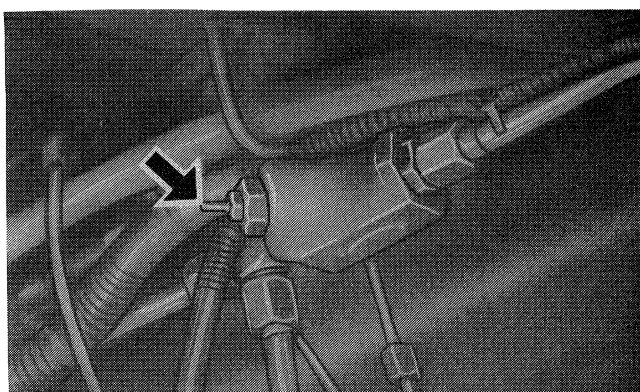


H37765

A—Adjusting Nut
B—Slot

Drop Rate

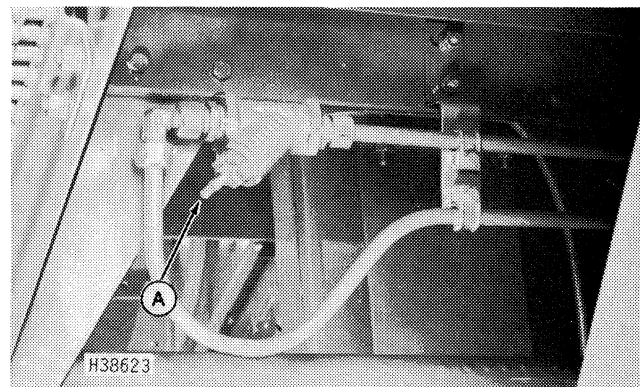
The drop rate valve controls rate of drop of the belt pickup. On self-propelled combines the valve is located under the operator's platform. 7721 drop rate valve is located on front of undercarriage next to hitch tube. Main control valve drop rate must be adjusted before the DIAL-A-MATIC drop rate valve. See combine operator's manual. 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.



H38447

6620-7720-8820 Combines

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



H38623

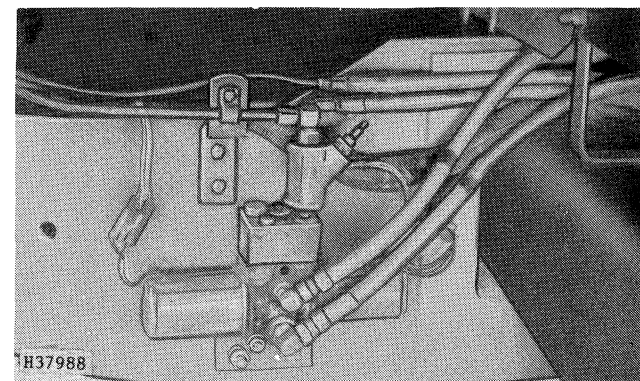
4425 Combine

To Adjust:

1. Turn the drop rate valve adjusting screw out until the belt pickup "hunts" or cycles up and down.

NOTE: The initial setting of the drop rate valve adjusting screw is eight complete turns out, after the screw has been completely turned in.

2. Turn adjusting screw in until the belt pickup stops "hunting".
3. Turn adjusting screw in an additional 1/2 turn.



H37988

Actuating Switch

When gauge wheels are over 15 in. (381 mm) 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 15-in. (381 mm) 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 15-in. (381 mm) of ground.

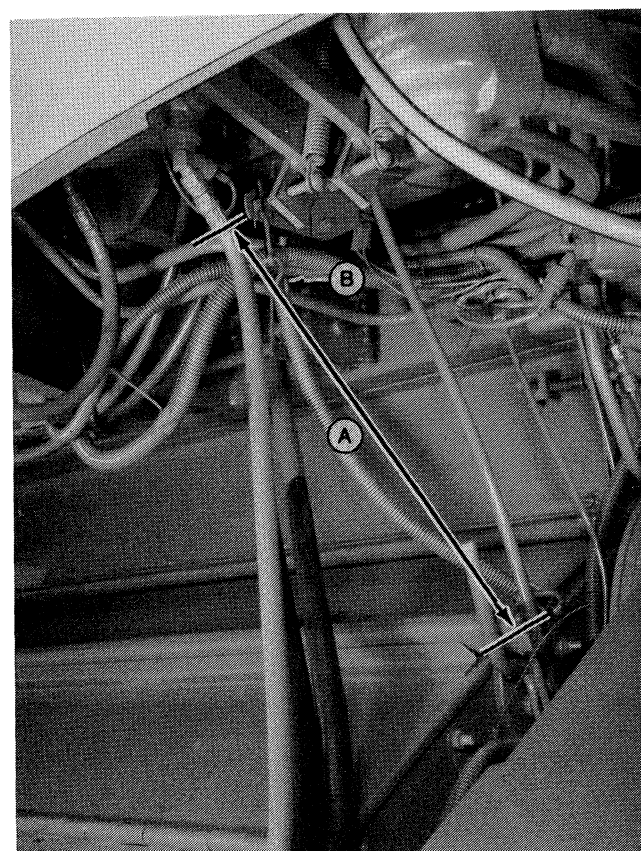
If chain is too long, it will not release actuating switch and DIAL-A-MATIC will not operate.

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.

Adjust chain (A) to about 18-in. $\pm$ 1/2-in. (457 mm $\pm$ 13 mm) 4425 Combine, 17-in. $\pm$ 1/2-in. (432 mm $\pm$ 13 mm). 6620-78720-8820 Combines, 7-1/2-in. $\pm$ 1/2-in. (190 mm $\pm$ 12 mm) 7721 Combine. 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 15-in. (381 mm) 4425, 6620-7720-8820 Combines, 6-1/2-in. (165 mm) 7721 Combine, above ground. Additional adjustment might be necessary.

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

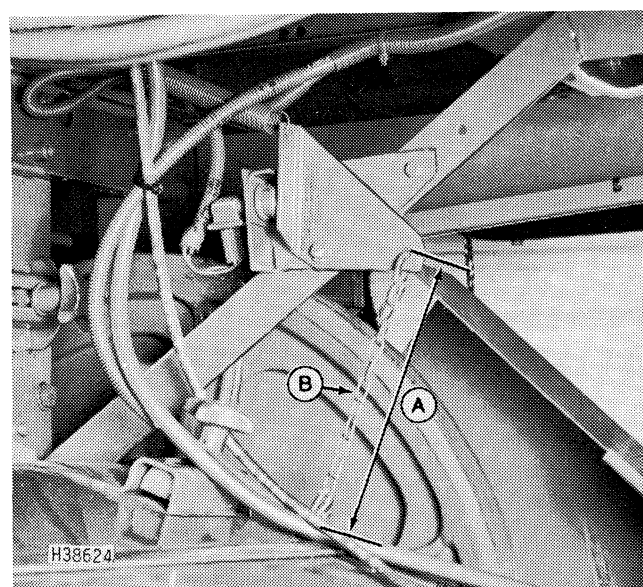
Adjust eyebolt to fine tune between links.



H38184

6620-7720-8820 Combine

A—Chain Length
B—Chain



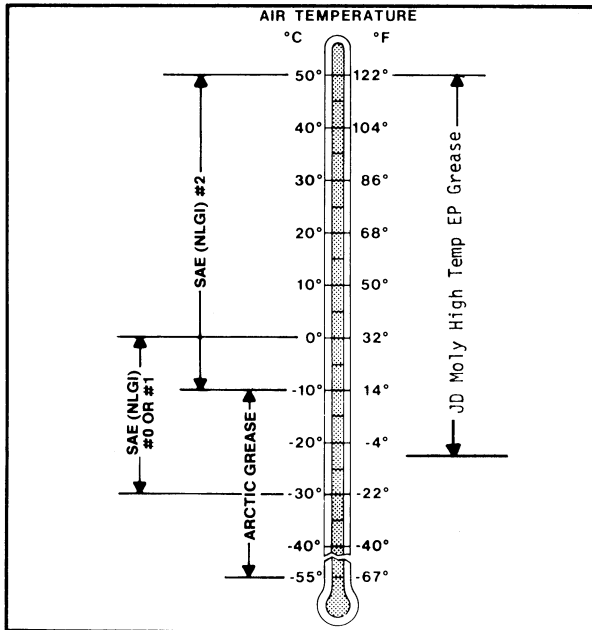
H38624

H38624

4425 Combine



Lubricants



TS0153

Greases

The following greases are recommended for John Deere Belt Pickups:

- John Deere Moly High Temperature/Extreme Pressure Grease
- SAE Multipurpose High Temperature Grease with Extreme Pressure (EP) Performance and 3 to 5% molybdenum disulfide.

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

Product Number	Description	Size	Pkg. Qty.
TY6333	Moly High-Temperature Extreme Pressure Grease	14 oz. Tube	1
TY6347	Moly High-Temperature/Extreme Pressure Grease	1 lb.	1

Storing Lubricants

Your combine can operate the best only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture, and other contaminants.

Alternative Lubricants

Conditions in certain areas outside the United States and Canada can require different lubricants than those printed in the operator's manual. Consult your John Deere dealer to obtain alternative lubricants.



Lubrication and Maintenance

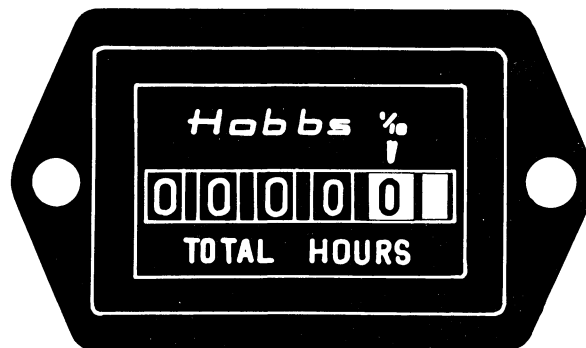
SERVICE INTERVALS

Using hour meter as a guide, perform all services at hourly intervals indicated on following page.

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



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



H35387

SYMBOLS



Lubricate with John Deere Moly High Temperature/Extreme Pressure lubricant or an equivalent SAE High Temperature/Extreme Pressure type grease with 3 to 5% Molybdenum Disulfide at hourly intervals indicated on the symbols.

KEEP LUBRICANTS CLEAN

Use only high-grade lubricants that have been stored in clean containers. Wipe grease fittings clean before lubricating.

CHAINS

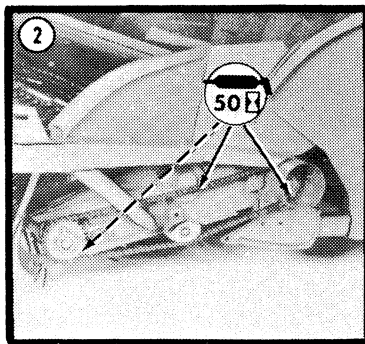
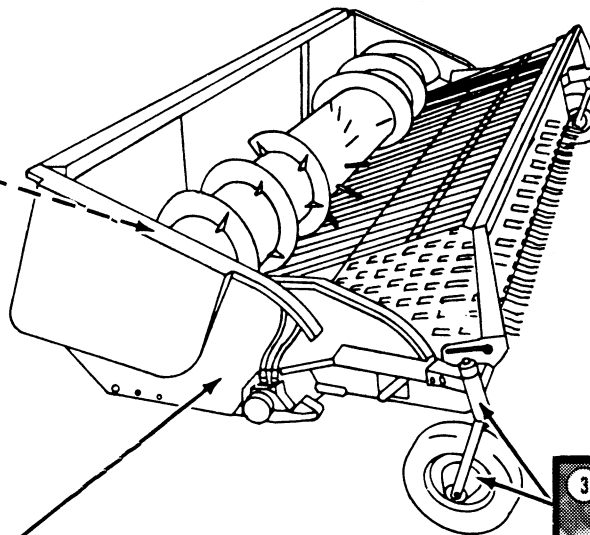
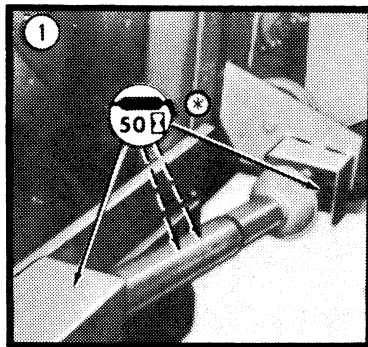


CAUTION: Never lubricate chains with combine engine running.

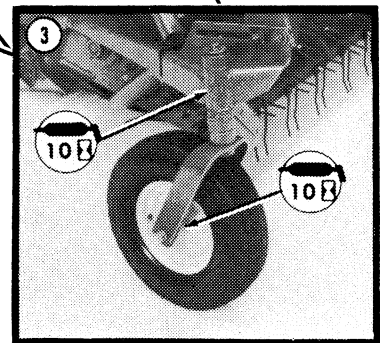
Lubricate chains every 10 hours of operating with SAE 30 or heavier oil. Run chain for a few minutes before lubricating. A warm chain increases penetration of oil between pins and bushings. Shut off combine engine and lubricate chains.

NOTE: *Genuine John Deere Chain Lube in an aerosol can (part number PT508), is obtained from your dealer.*

EVERY 10 AND 50 HOURS OF OPERATION



H38680



H38680

1. Grease Header Drive Shafts (SideHill 6620)
 - Disconnect drive shaft from feeder house.
 - Align access holes in shaft shields with one of the grease fittings on the drive shaft.
 - Lubricate.
 - Rotate Shaft 180° and lube second fitting on drive shaft.

2. (Both sides) Lubricate bearings
3. (Both sides) Lubricate gauge wheel bearings and axle.



Trouble Shooting

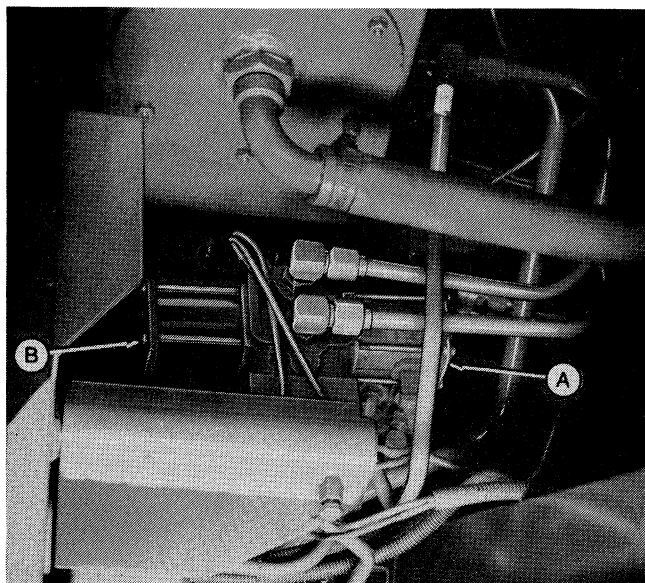
Majority of belt pickup operating problems can be traced to wrong adjustment. The Chart which follows will help you when problems develop by suggesting a probable cause and recommended remedy.

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

BELT PICKUP

Symptom	Problem	Solution	Page
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.	38
	Gauge wheels not always contacting ground.	Lower platform to allow pickup to operate at less pitch.	—
	Pickup speed too slow.	Increase pickup speed.	35
Picking up dirt.	Wrong gauge wheel setting.	Lower gauge wheels to prevent pickup fingers from digging in ground.	38
	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.	35
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.	38
	Too much pickup speed.	Decrease speed of pickup.	35
	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 - Pickup Platform and 200 Series Platform.	Move pickup to outer position.	36,78
	Hold-down fingers not adjusted right.	Adjust hold-down fingers to provide more compression of crop at rear of pickup.	38
	Too much pickup speed.	Decrease speed of pickup.	35
	Speed of pickup too slow.	Increase speed of pickup.	35
Windrow rolls ahead 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 on pickup platform and 200 Series Platform.	35 36,78
	Platform auger not adjusted properly.	Adjust platform auger down.	—
Material bunching on pickup.	Wrong hold-down adjustment.	Raise hold-down to high position.	38
Platform auger plugging.	Auger not adjusted right.	On 200 Series Rigid Platforms increase auger clearance to platform bottom. Check auger fingers. See combine operator's manual.	—
Material not feeding properly into feeder house.	Short crop feeding conditions.	Adjust auger to platform stripper, auger to platform bottom, or auger flight extensions required.	—

DIAL-A-MATIC HEADER HEIGHT CONTROL



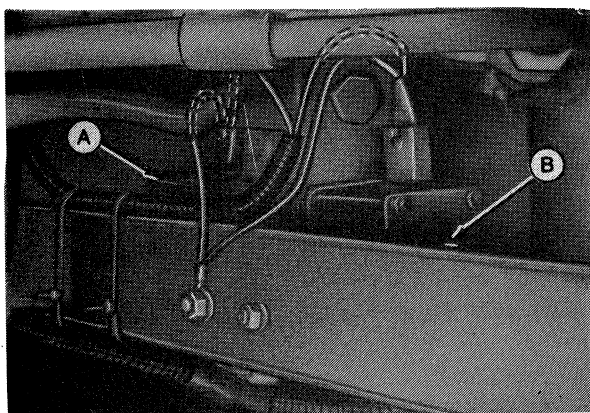
H31236

(6620, SideHill 6620, 7720,
and 8820 Combines)

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

The first step in trouble shooting DIAL-A-MATIC header height control problems is to determine if the problem is in the electrical system or the hydraulic system.

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



H26020

4420 Combine Illustrated

The 7721 auto header valve is located on front of undercarriage next to hitch tube. Self-propelled combine valves are located under operators platform. The auto header valve is equipped with two manual push pins, one located in each end of the solenoids. By depressing either push pin, the auto header valve can be manually operated.

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

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

Electrical System

Symptom	Problem	Solution	Page
DIAL-A-MATIC Header Height Control Will Not Operate	Bad control switch.	Replace control switch.	—
	Rubber boot is not correctly positioned on actuating switch.	Position rubber boot in groove in actuating switch plunger.	—
	Bad 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.	45
	Loosen connection on auto header valve ground wire.	Tighten connection.	—
DIAL-A-MATIC Header Height Control Lowers But Will Not Raise	Main wiring harness on feeder house loose or disconnected.	Connect harness.	41
	Loose connection on auto header valve.	Tighten connections.	—
DIAL-A-MATIC Header Height Control Raises But Will Not Lower	Loose connection on auto header valve.	Tighten connections.	—
	Movement of control shaft under header is restricted.	Check shaft for restrictions.	—
System Cycles or "Hunts" to Much	Wrong adjustment of drop rate valve.	Adjust drop rate valve.	44
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.	45
	Bad 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.	45
	Bad actuating switch.	Replace actuating switch.	—

Hydraulic System

Symptom	Problem	Solution	Page
DIAL-A-MATIC Header Height Control Will Not Operate	Bad auto header valve.	See your John Deere dealer.	—
	Electrical problem.	See ELECTRICAL SYSTEM trouble shooting.	51
DIAL-A-MATIC Header Height Control Lowers But Will Not Raise.	Bad "RAISE" (front) solenoid on auto header valve.	See your John Deere dealer.	—
	Electrical problem.	See ELECTRICAL SYSTEM trouble shooting.	51
DIAL-A-MATIC Header Height Control Raises But Will Not Lower	Not enough hydraulic oil to auto header valve.	Increase speed to fast idle. See combine or tractor operator's manual.	—
	Bad "LOWER" (rear) solenoid on auto header valve.	See your John Deere dealer.	—
	Electrical problem.	See ELECTRICAL SYSTEM trouble shooting.	51
Header Raises Slowly or Not At All	Not enough hydraulic oil to solenoid control valve.	Increase engine speed to fast idle. See combine or tractor operator's manual.	—
	Not enough hydraulic oil pressure from main hydraulic system.	See your John Deere dealer.	—
	Bad relief valve in main hydraulic system control valve.	See your John Deere dealer.	—
	Bad flow control plug in main valve.	See your John Deere dealer.	—
System Cycles or "Hunts" to Much	Wrong adjustment of drop rate valve.	Adjust drop rate valve.	44

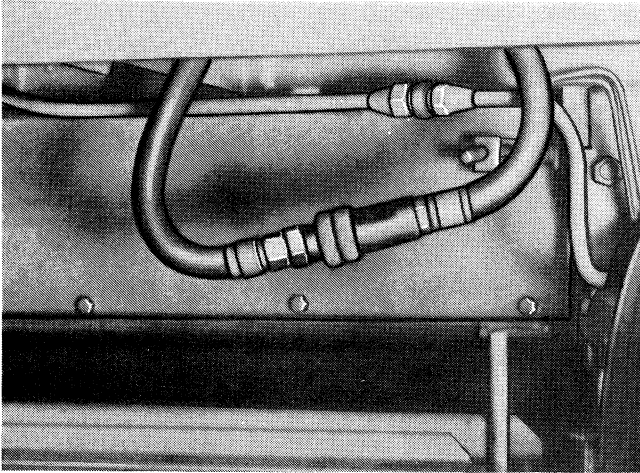
Hydraulic System—Continued

Symptom	Problem	Solution	Page
Header Is Too Slow To Return To Operating Level After Coming To Unlevel Ground	Wrong adjustment of drop rate valve.	Readjust drop rate valve.	44
Header Lowers With Control Switch In "Off" Position	Bad solenoid control valve.	See your John Deere dealer.	—
Solenoid Control Valve Does Not Function When Manually Operated	Bad auto header valve.	See your John Deere dealer.	—
Solenoids On Control Valve Do Not Make An Audible "Click" When Energized	Loose connection on solenoids.	Tighten connections.	—
	Bad auto header valve solenoids.	See your John Deere dealer.	—
	Bad auto header valve.	See your John Deere dealer.	—
DIAL-A-MATIC Header Height Control System Leaks Hydraulic Oil	Loose hydraulic connections.	Tighten hydraulic connections.	—
	Bad auto header valve.	See your John Deere dealer.	—
System Overheats	Bad flow control plug in main valve.	See your John Deere dealer.	—
	System cycles to much or "HUNTS".	See ELECTRICAL SYSTEM trouble shooting.	51
	Bad main hydraulic system relief valve.	See your John Deere dealer.	—
	Hydraulic return line is plugged.	See your John Deere dealer.	—
One Side Responds To Lift Signal While Other Side Does Not	Wrong linkage adjustment.	Linkage must be in top of slot on both sides.	43



Service

CONNECTING HOSES ON BELT PICKUP DRIVE

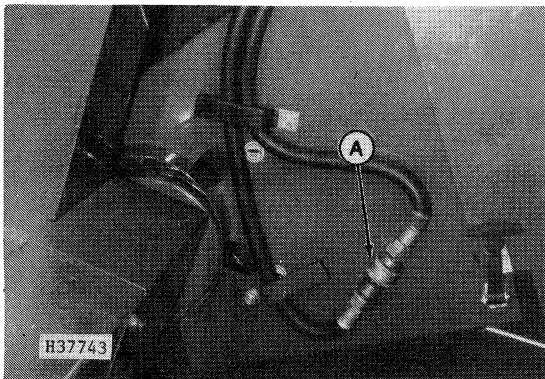


H18572

Combines Serial No. (-600000)

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.

Belt pickup drive hoses shown, connected under the operators platform, are for combines up to serial number (-600000).



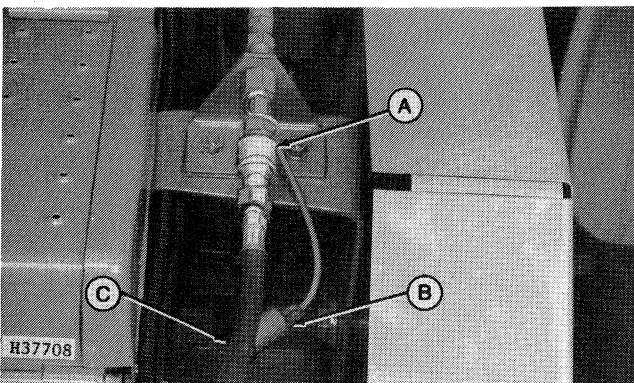
H37743

H37743

6620-7720-8820 (600001-)

Belt pickup drive hoses (A) shown, connected on feeder house drive shield, are for combines serial number (600001-) and up. Hoses must be secured by clamps to prevent damage from drives.

A—Hoses Connected



H37708

H37708

6620-7720-8820 (600001-)

The reel lift hose (A) must be connected to fixed variable speed feed house connector on the feeder house to keep the hose out of drives.

A—Quick Disconnect Couplers
B—Protective Cap
C—Plug

TIGHTENING PUMP DRIVE BELT FOR BELT PICKUP DRIVE

4420 Combines

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).

IMPORTANT: Keep this belt tight at all times.



H26759

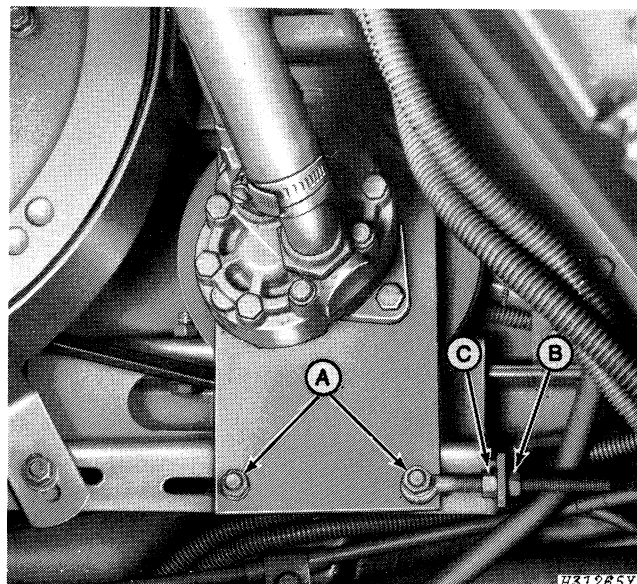
6620, SideHill 6620, 7720 and 8820 Combines

Loosen nuts (A) and nut (B).

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

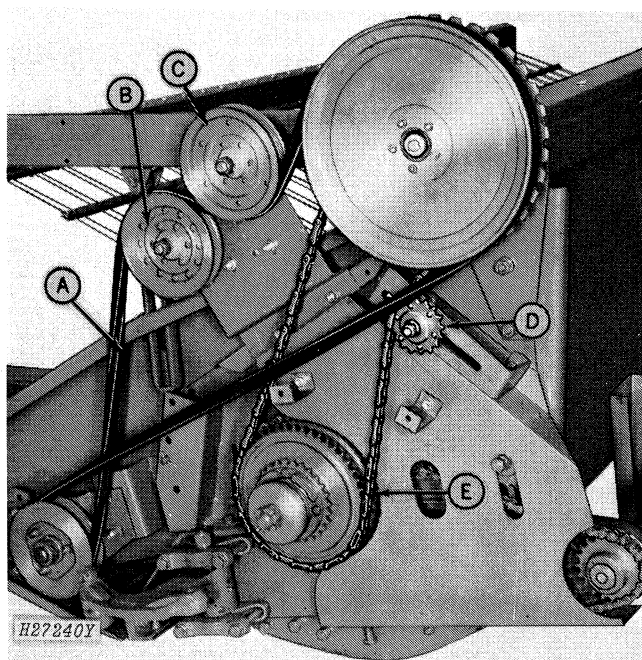
Tighten nut (B) and nuts (A).

IMPORTANT: Keep this belt tight at all times.



H31265

ADJUSTING PICKUP DRIVE BELT AND CHAIN (6601)



Belt

Tighten drive belt (A) just enough so that belt slippage will not occur in normal operation. Loosen nuts on the tightener sheaves (B) and (C) with the most slot space available and adjust sheaves as necessary to obtain proper belt tension.

Chain

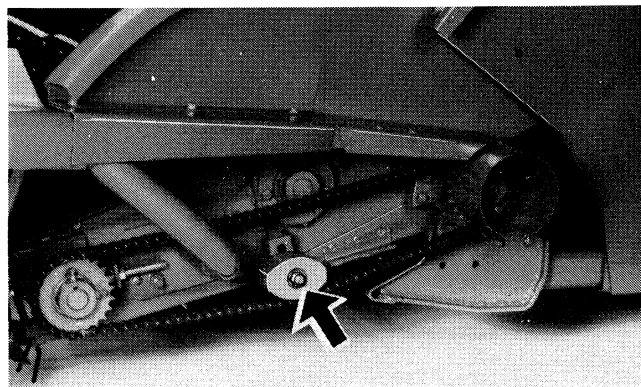
Loosen nut (D).

Move tightener against chain (E). Chain is a proper tension when it will operate without climbing or jumping sprockets.

Tighten nut (D).

- A — Drive Belt
- B — Sheave
- C — Sheave
- D — Nut
- E — Drive Chain

ADJUSTING LOWER ROLLER DRIVE CHAIN



Shield Removed For Illustrative Purposes

H50135

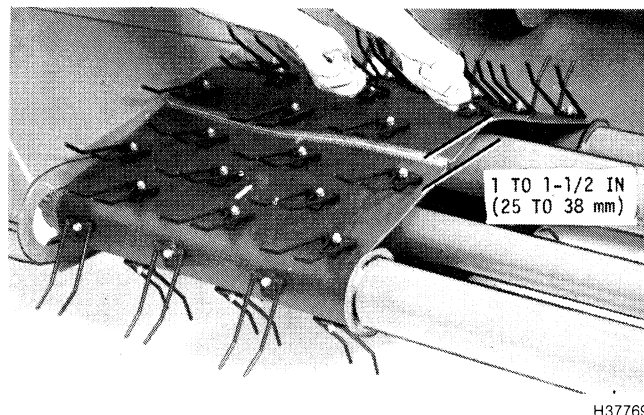
Adjust chain tension so chain is just tight enough to run without climbing or jumping sprockets. All sprockets must be properly aligned.

To adjust, loosen nut on tightener block and adjust block downward then tighten nut. See illustration to left.

PICKUP BELTS

Adjusting Tension

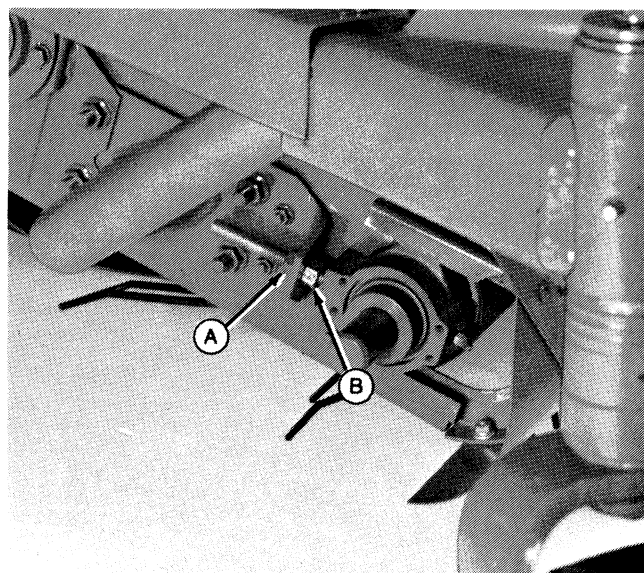
Pickup belts must have 1 to 1-1/2-inch (25 to 38 mm) free play between center of belt and middle roller. Check dimension by lifting on fingers over center roller.



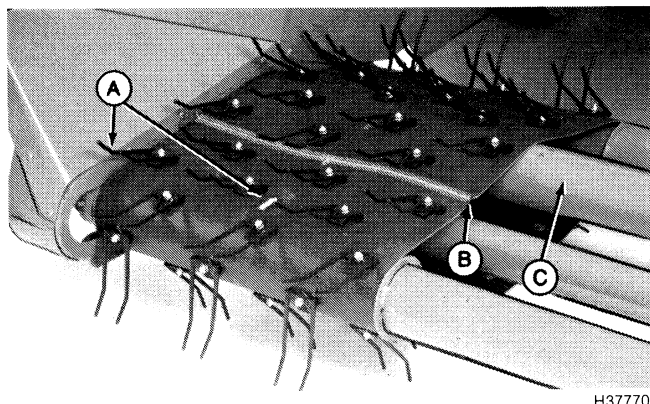
To tighten belts, loosen nuts (A) and tighten nuts (B). Lock nuts (A).

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.



154-Inch (3912 mm) Pickup Illustrated



H37770

Removing Belts

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

Pull lacing pin out of lacings and remove belts.

Installing Belts

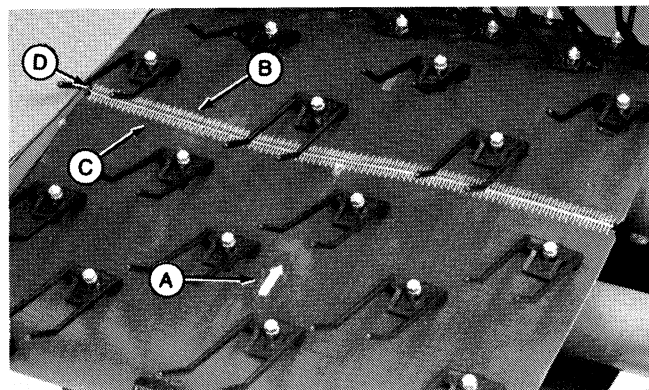
Install right-hand and left-hand belts before installing center belt to keep ends of rollers from spreading. Fingers must point opposite direction of belt travel.

Place belts around rollers so lacings come together over center roller.

A—Finger Pointing in Opposite Direction of Arrow

B—Lacing Pin

C—Center Roller



H37771

Installing Lacing

Hold lacings together and insert lacing pin, 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 keep from falling out.

A—Directional Arrow

B—Top Lacing

C—Bottom Lacing

D—Lacing Pin

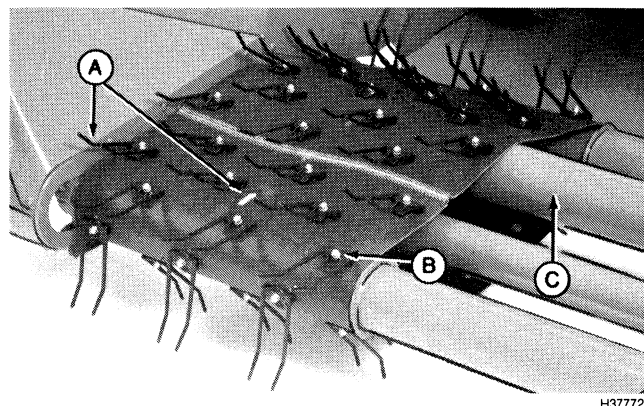
REPLACING PICKUP FINGERS

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).

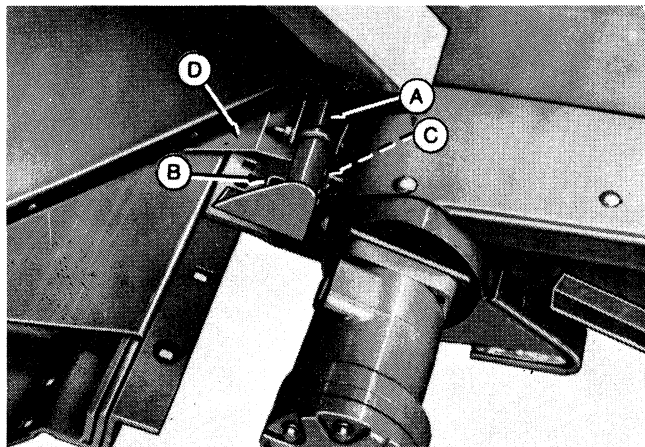
Plastic Finger: Remove nut and finger. Install new finger so it points opposite direction of belt travel (A). Secure with nut. Shoulder of bolt must be seated in base of finger. (Torque 55 in-lbs [6.2 N·m]).

- A—Fingers Pointing In Opposite Direction Of Arrow
- B—Lock Nut
- C—Center Roller



H37772

STRIPPER (200 SERIES PLATFORMS ONLY)



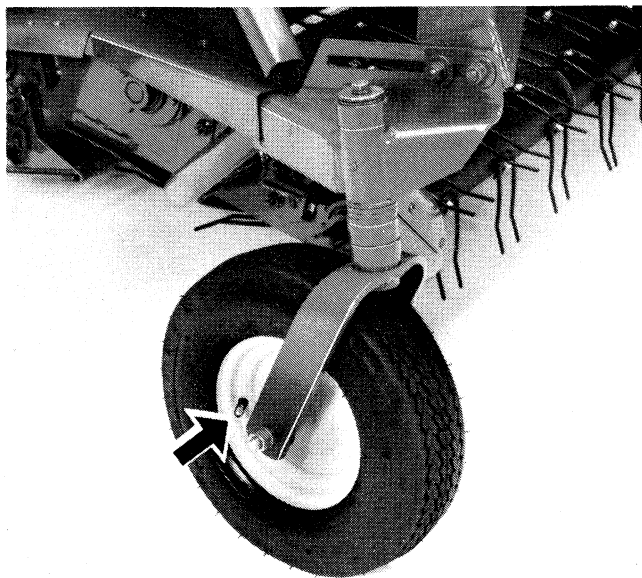
H36915

Shield Removed for Illustrative Purposes

If stripper (A) is worn, turn stripper on bar to expose a new surface by punching a new row of holes and replacing stripper.

- A — Rubber Stripper
- B — Cotter Pin
- C — Adjust Holes
- D — Grain Slide

TIRE INFLATION



H50143

Keep belt pickup tires inflated to 20 psi (1.40 bar) air pressure.

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

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



Storage

END OF SEASON SERVICE

1. 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.

2. Lubricate platform. Grease threads on adjusting bolts. Release spring tension on slip clutch and apply a coating of grease to slip clutch washers.
3. 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.
4. Paint all parts from which paint was worn.
5. 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.

BEGINNING OF SEASON SERVICE

1. Clean pickup platform thoroughly.
2. Replace or adjust belts and check tension.
3. Adjust chains to proper tension.
4. 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.
5. Lubricate pickup platform completely.
6. Go over complete pickup platform and see that all bolts are tight and cotter pins are spread.
7. Check for hot bearings or looseness. Slip clutch must operate freely.
8. Review your operator's manual.



Crime Prevention

GOOD ADVICE

TAKE A BITE OUT OF
CRIME

© 1979 The Advertising Council, Inc.



TS140

Keep your machine damage-free and **YOURS!**

Follow the advice on these pages to reduce vandalism, discourage theft, and help recover your machine if it is stolen.

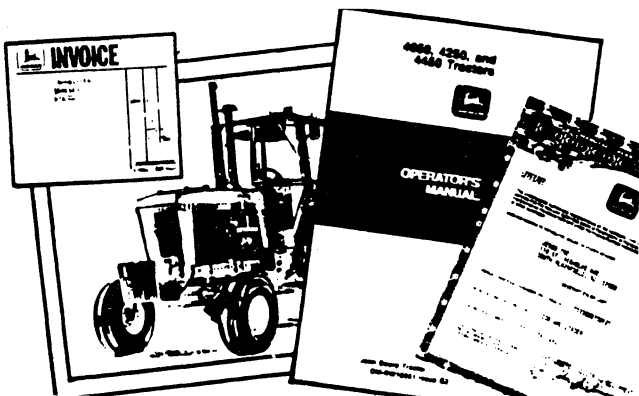
RECORD IDENTIFICATION NUMBERS



TS161

1. Record Product Identification Number (PIN) of unit and identification numbers of engine, component, attachment, etc. **EXACTLY** as they appear on the plates.
2. Check that the complete and correct numbers appear on all documentation (insurance, financial, warranty, manufacturer's certificate of origin, etc.). Keep all documents in a safe location.
3. If available, participate in an "Owner Applied Numbering Program" and mark your own machines.

MAINTAIN DOCUMENTED PROOF OF OWNERSHIP

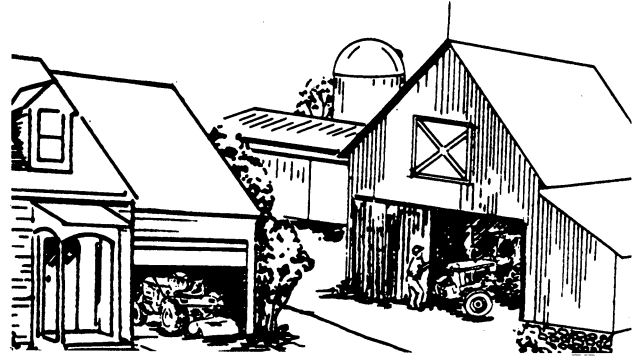


TS142

1. Keep in a safe location all documents (invoices, warranty cards, manufacturer's certificate of origin, if available, etc.) that accompanied your machines at the time of purchase.
2. Take color photographs of each machine from several angles.
3. Maintain an up-to-date inventory of all machines. Check regularly to insure no machines have been stolen.

PARK INDOORS OUT OF SIGHT

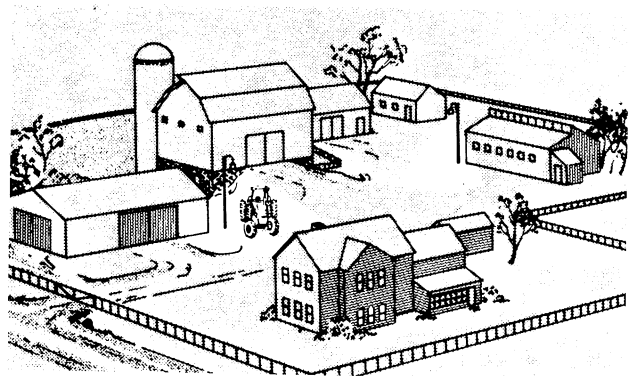
1. Lower all equipment making the machine harder to move.
2. Remove ignition key. If so equipped, lock cab doors, windows and any vandal protection devices. Place hard-to-move equipment in front of exits.
3. If machine is being stored, remove the battery or any essential component in the electrical system.
4. Set wheels in widest position making loading more difficult. Secure all openings to storage buildings.



TS143

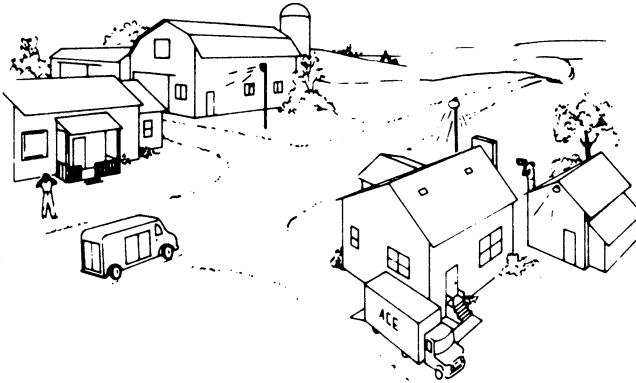
PARKING OUTDOORS

1. Park machine in a fenced, well-lighted, locked area. Lower equipment, remove ignition key and lock cab doors, windows, and any vandal protection devices, if so equipped.
2. Make law enforcement aware of your presence in an area and provide with a contact person to assist them in dealing with suspicious activity.
3. Solicit assistance from neighbors or merchants who permanently reside near the parking area.



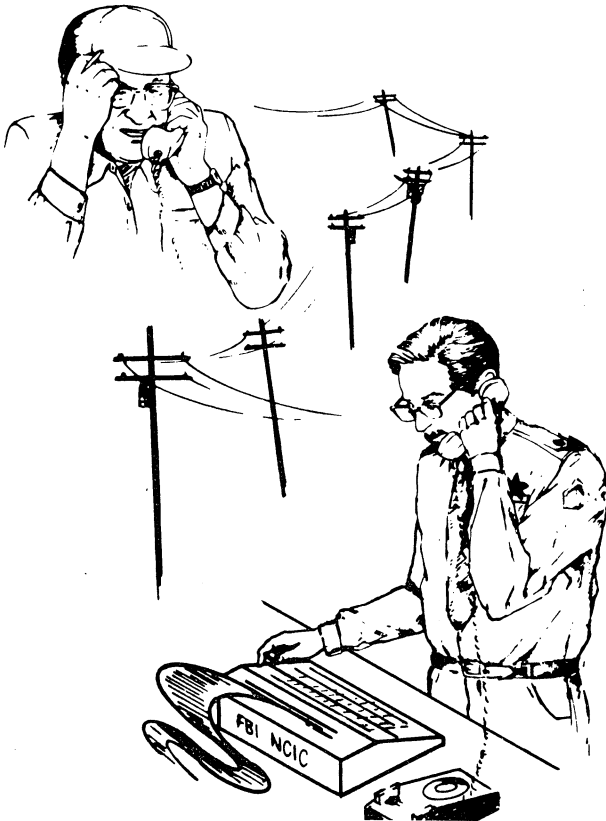
TS155

REDUCE VANDALISM



TS145

REPORT THEFT



TS146

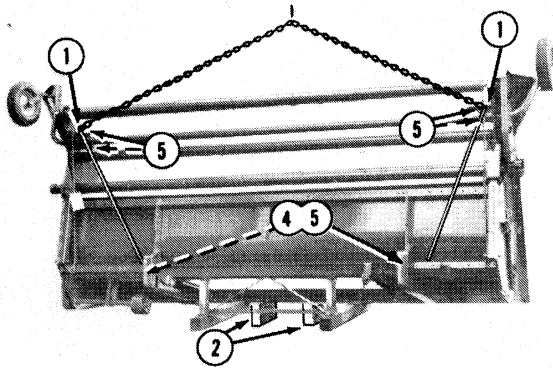
1. Install vandal protection devices especially if parking machine in high-risk areas.
2. Solicit assistance for watching machine from individuals residing in the area.
3. Take written notes and report to law enforcement all suspicious vehicles or persons.
4. Participate in a "Neighborhood Watch Program."

1. If a theft occurs, notify the law enforcement agency having jurisdiction and the insurance carrier immediately.
2. Give a full description and a complete identification number(s) to the investigating officer and insurance carrier.
3. If available, provide the investigating officer with photographs of the actual machine, manufacturer's literature and knowledge of any identifiable marks that would assist in identifying the machine.
4. Ask for verification that the stolen machine has been entered into the National Crime Information Center (NCIC) operated by the FBI in Washington D.C.
5. Notify your John Deere dealer of the theft and request that, if possible, a notice be posted that provides the description and identification information.
6. Regularly check the identification plates on all machines and report any removed plates to law enforcement immediately. Promptly contact your dealer and order a duplicate identification plate.

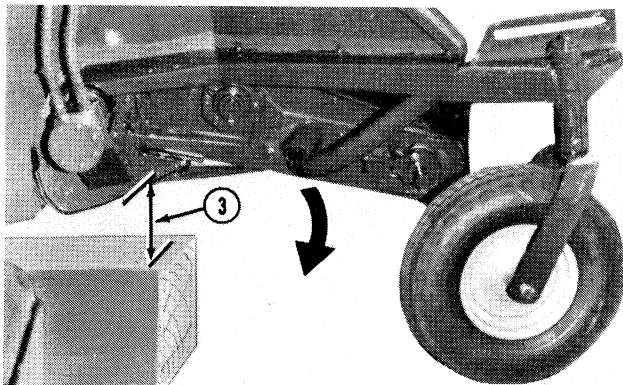


Assembly and Installation

ASSEMBLING SUPPORT ARMS, BELTS, AND HOLD-DOWN



H37396



H37397

Assembly of 212 and 214 Pickup Platform with Belt Pickup Mounted

1. Remove pickup platform.



CAUTION: Weight of pickup rests on two shipping skid uprights. Do not remove these uprights or their attaching bolts until pickup has been rolled over (on ground) to operating position.

2. Remove four cap screws at ends then remove hold-down.
3. Attach chains to slipping plates, lift pickup high enough to clear combine blocks, 20 in. (508 mm). Place two blocks under pickup top beam and slowly lower pickup. As pickup is lowered it will move forward.
4. With pickup on ground, place blocks under side frame. You must allow about 3 in. (74 mm) between blocks and frame.
5. Loosen nuts on shipping rods. As nuts are loosened the pickup will lower to blocks installed in Step 4.
6. Remove and discard four nuts and rods. Remove four nuts (per side) holding shipping plates. Remove and discard plates, then reinstall nuts on bolts. Remove and discard shipping stand.
7. Reinstall hold-down removed in Step 2.
8. Install belts.
9. Belt pickup is now ready to be picked up by combine.

Assembly of Pickup Platform with Belt Pickup Not Mounted

NOTE: For ease of installation on Pickup Platform Serial No. (217601-) see Installing Stripper before installing arms, belts and hold-down.

1. Set belt pickup on a sturdy support.
2. Attach left-hand support arm to bearing carrier with two 7/16 x 1-1/2-inch plow bolts and two 7/16 x 1 x .075-inch washers.
3. Attach right-hand support arm to bearing carrier with two 7/16 x 1-1/2-inch plow bolts and two 7/16 x 1 x .075-inch washers.

(If pickup is to be installed on combine immediately, Steps 4 through 7 are more easily done after pickup is attached to platform.)

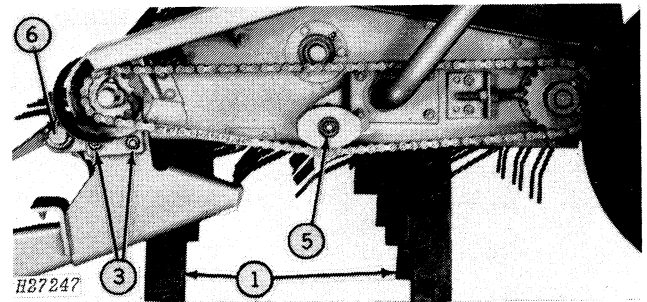
4. See installation instructions for installing pickup belts.
5. Adjust drive chain to correct tension so it operates without climbing or jumping sprockets.
6. (200 Series Pickup) Install stripper.

NOTE: Shield can now be attached to end of pickup platform.

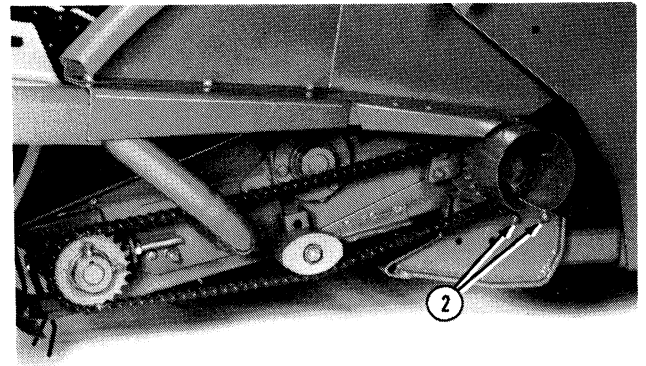
7. Install windrow hold-down by attaching welded assembly (A) to gauge wheel yoke bearing with two 1/2 x 1-1/2-inch cap screws and 17/32 x 1-1/16 x .090-inch flat washers at (B). Adjust hold-down fingers to proper position.
8. Install shields, using (three each side) 1/4 x 1/2-inch cap screws, 9/32 x 5/8 x .060-inch flat washers, and lock washers and four existing round head bolts.
9. Remove cap screw and two thick spacers from end of wheel mount.
10. Place wheel mount through opening. Replace two thick spacers on top and secure cap screw.

NOTE: Wheel position is shown for middle position. To raise or lower see Adjusting Gauge Wheels.

A—Welded Assembly
B—Cap Screw with Flat Washer

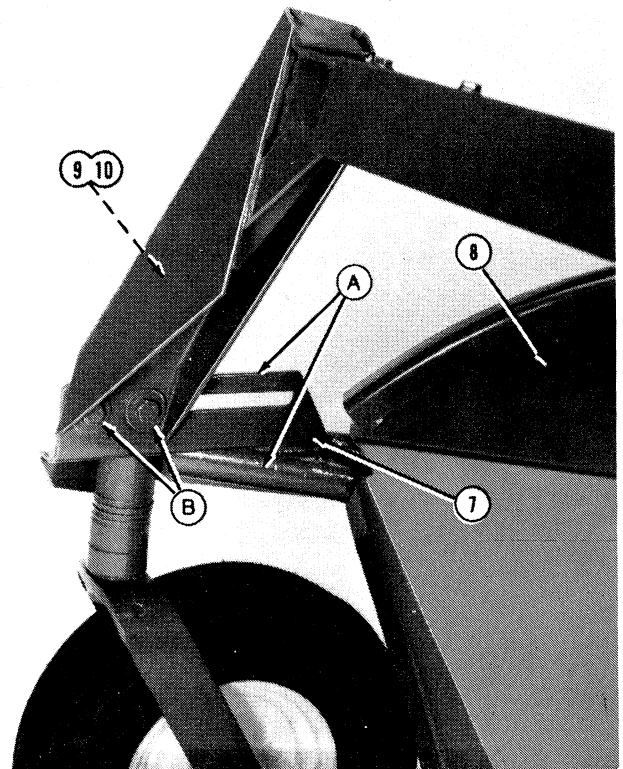


Left-Hand Side - 6601 Illustrated



H50138

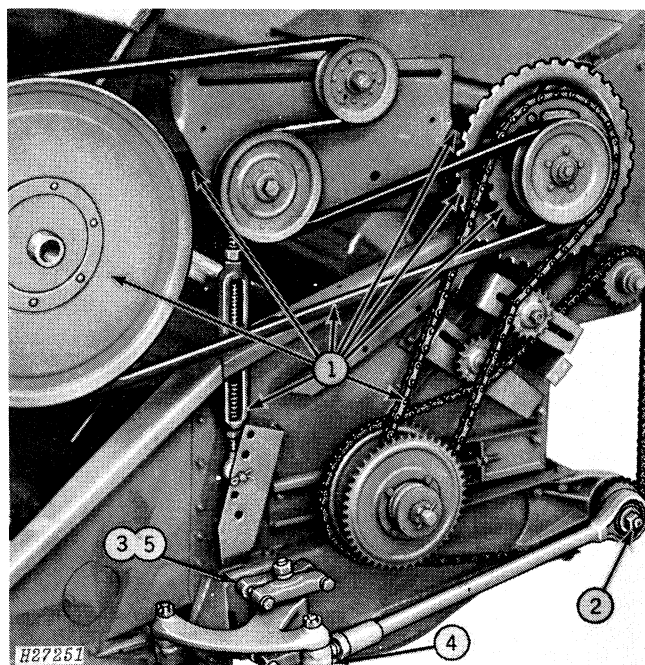
Left-Hand Side Shield Removed - Pickup Platform Illustrated



H50139

200 Series, and Pickup Platform Belt Pickup Illustrated

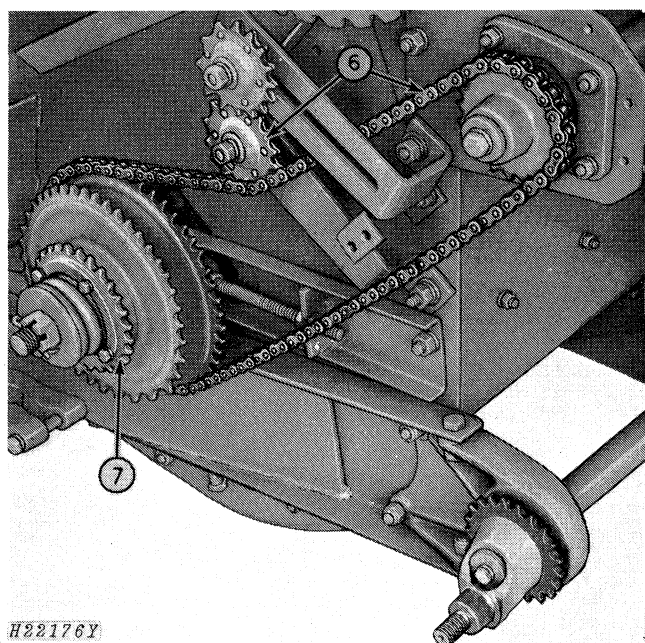
PREPARING 6601 PLATFORM FOR BELT PICKUP



6601 Cutting Platform Illustrated

Mechanical Drive 6601 Combine

1. Remove loop dividers, shields, drive belt, drive chain, and reel.
2. Disconnect pitman from crank; replace nut on crank.
3. Remove four clamps holding bell crank in place.
4. With bell crank attached, pull knife out of cut-terbar if so equipped.
5. Reattach four clamps to platform.



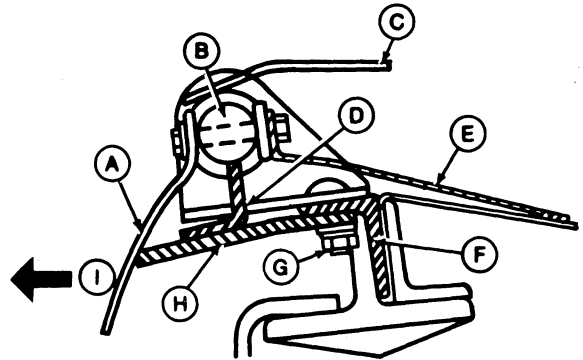
6601 Cutting Platform Illustrated

6. Remove 18 links from pitman and auger drive chain. Reinstall auger drive chain and adjust tension.
7. Remove 27-tooth sprocket and store sprocket and hardware with cutting parts that were removed. Secure 47-tooth sprocket, using three 5/16 x 2-inch cap screws.

Installing Stripper Support Plate

The stripper bar support rests on the support plate, which is bolted, with offset down, to under-side of cutterbar angle.

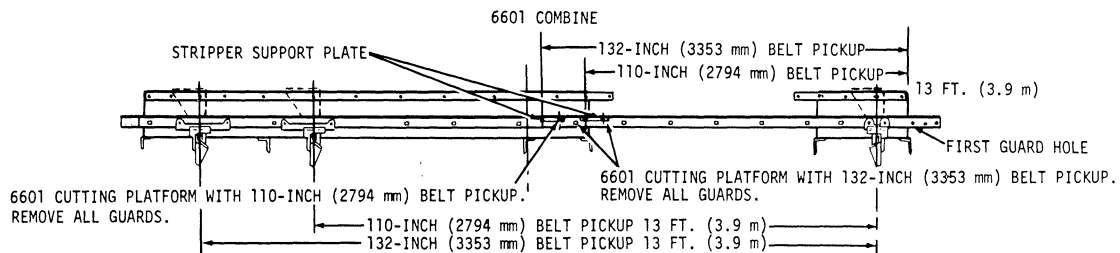
- A — Stripper
- B — Stripper Tube
- C — Finger
- D — Stripper Bar Support
- E — Grain Slide
- F — Cutterbar Angle
- G — Two 3/8 x 1-inch Rd. Hd. Bolts with 13/32 x 13/16 x .060-inch Flat Washers and Nuts
- H — Support Plate - Off-Set Down
- I — Direction of Travel



6601 Platforms

H37398

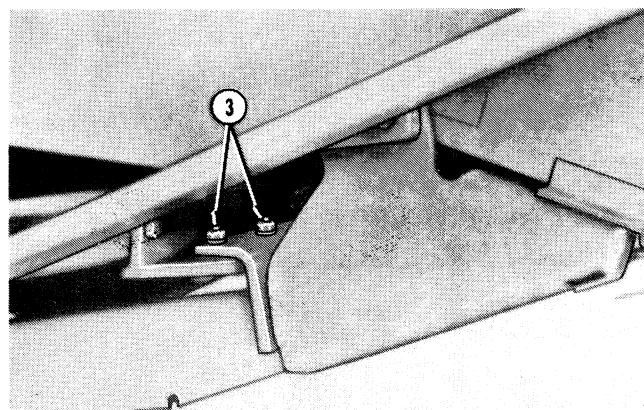
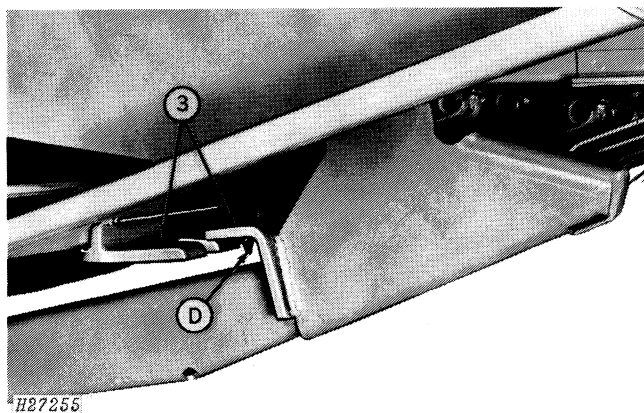
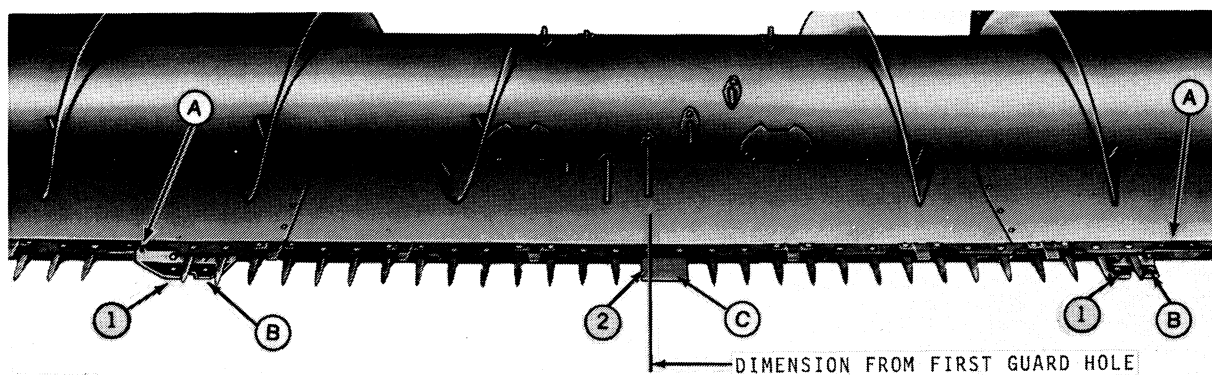
Installing Belt Pickup



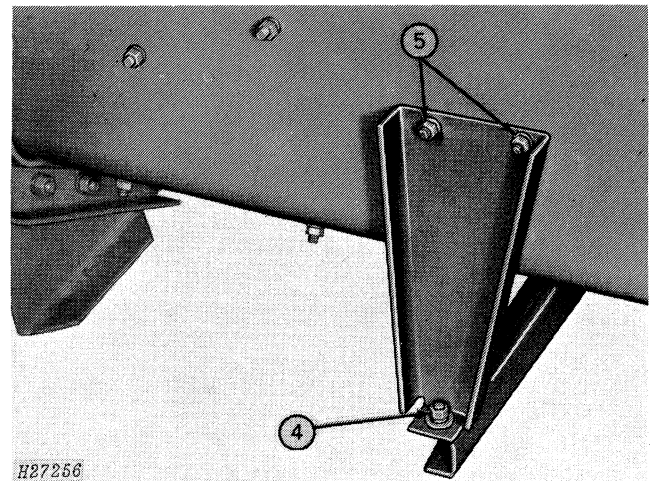
H36926

NOTE: Above chart shows where to install pickup support arms and to remove all guards.

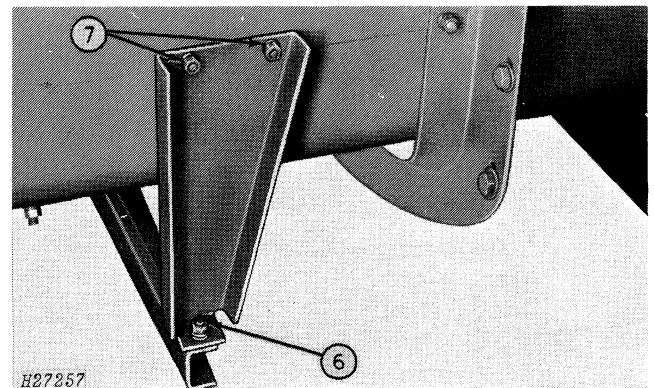
Installing Belt Pickup (continued)



4. Attach right-hand support bracket to support arm, using 3/8 x 1-inch cap screw.
5. Bolt bracket to platform, using two 3/8 x 1-inch cap screws.



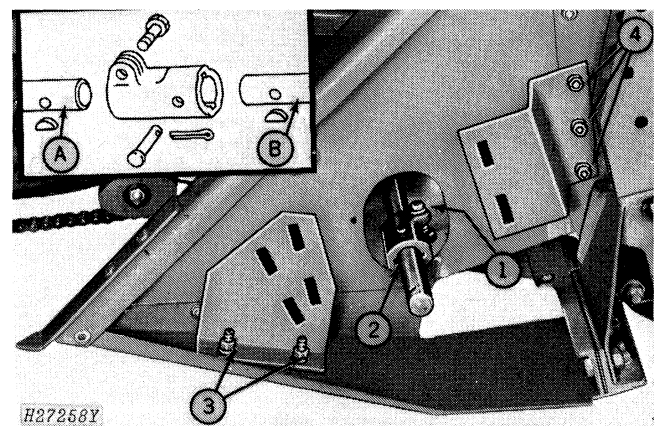
6. Attach left-hand support bracket to support arm, using one 3/8 x 1-inch cap screw.
7. Bolt bracket to platform, using two 3/8 x 1-inch cap screws.



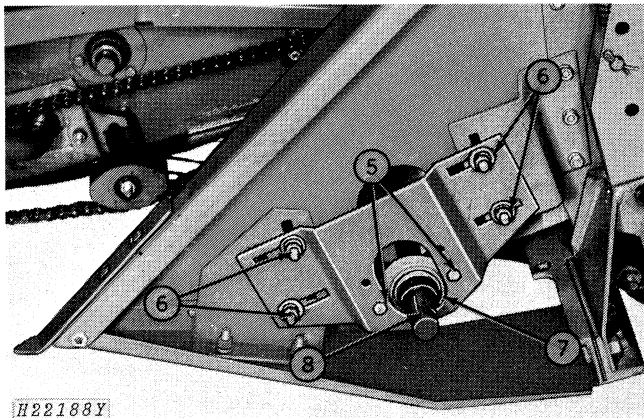
110-Inch (2794 mm) and 132-Inch (3353 mm) Belt Pickup on 6601 Combine

INSTALLING MECHANICAL DRIVE PARTS AND SHIELDS ON 6601 COMBINE CUTTING PLATFORMS AND PICKUP PLATFORMS

1. Place Woodruff key on inner drive shaft (A) and secure coupler to shaft, using one 3/8 x 1-3/4-inch cap screw.
2. Place Woodruff key on outer drive shaft (B) and insert shaft into coupler and secure, using one 5/16 x 2-inch drilled pin. Insert 1/8 x 1/2-inch cotter pin and bend.
3. Attach front support bracket to divider, using two 3/8 x 1-inch cap screws and 3/8-inch nuts, and four 13/32 x 13/16 x .060-inch flat washers — one each next to slotted holes in support bracket and divider.
4. Attach rear support bracket to end sheet, using existing hardware (5/16 x 3/4-inch truss head machine screws, lock washers, and nuts).



A — Inner Drive Shaft
B — Outer Drive Shaft



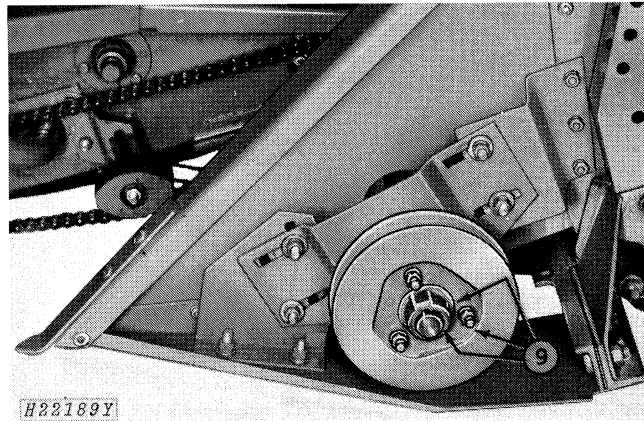
5. Attach bearing and retainers to support plate at lower set of holes in plate with two 5/16 x 3/4-inch cap screws.

6. Install support plate with four 3/8 x 1-1/4-inch carriage bolts, 13/32 x 1 x .105-inch flat washers, and 3/8-inch nuts.

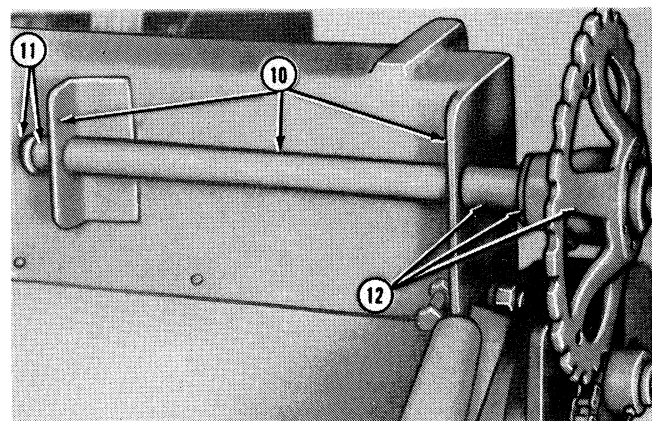
NOTE: Raise pickup off of ground; relieve all binding between coupler sleeve and outer drive shaft and tighten hardware.

7. Install bearing collar.

8. Install Woodruff key.



9. Slide sheave on shaft and insert spring pin.

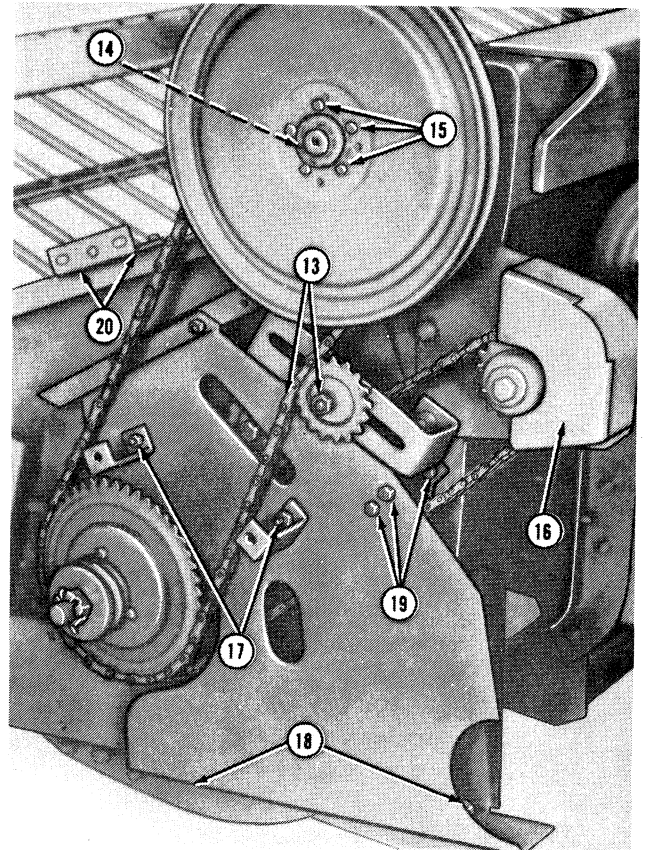


10. Insert pivot shaft through support brackets.

11. Install flat washer, spacer, flat washer, and 3/4-inch lock nut on pivot shaft.

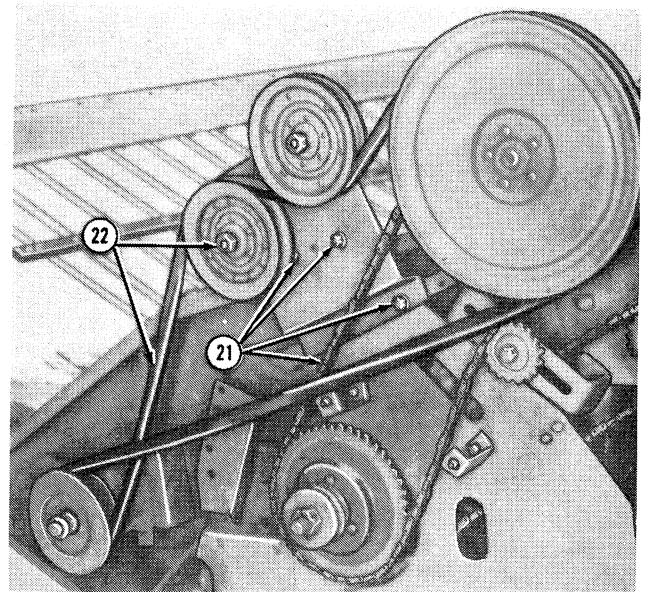
12. Install spacer, washer, and sprocket.

13. Install drive chain and adjust tension so it will operate without climbing or jumping sprockets.
14. Slip 3-1/2-inch washer onto shaft.
15. Secure drive sheave to sprocket using five 1/4 x 1-1/4-inch cap screws. Washer must be between sheave and sprocket.
16. Install shield, using four 5/16 x 1/2-inch self-tapping screws.
17. Attach brackets to shield, using two 3/8 x 3/4-inch cap screws.
18. Install drive shield. Install hardware in bottom holes at this time. Use existing hardware in front hole and one 1/2 x 1-1/4-inch cap screw in rear hole.
19. Install support bracket, using one 3/8 x 1-inch cap screw in J-angle and two 3/8 x 3/4-inch cap screws in shield.
20. Install shield bracket, using two 5/16 x 3/4-inch cap screws.

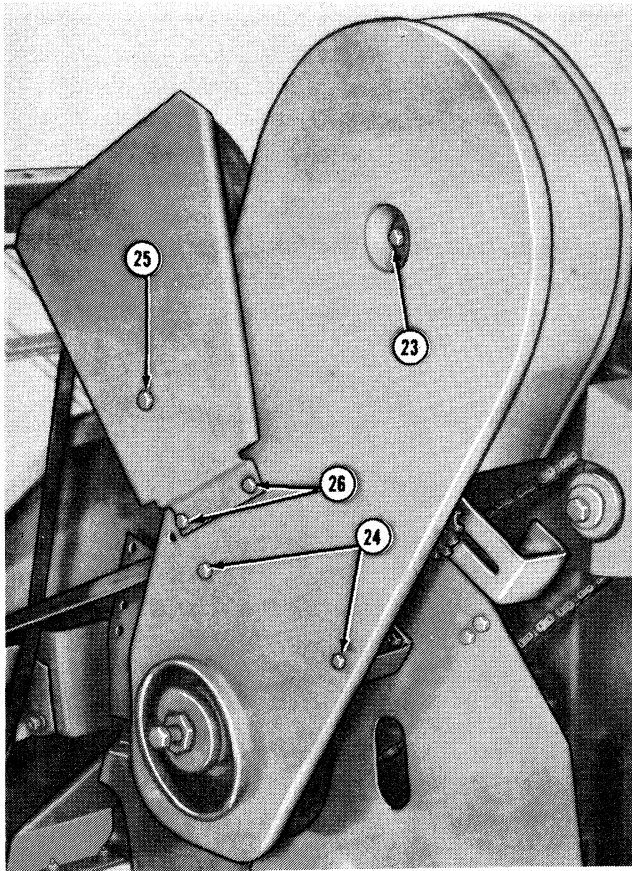


H22190

21. Install tightener assembly, using two 3/8 x 1-inch cap screws in bottom holes and two 5/16 x 1-inch round head bolts in top holes.
22. Install drive belt and adjust tension so belt will operate without slipping.



H22191

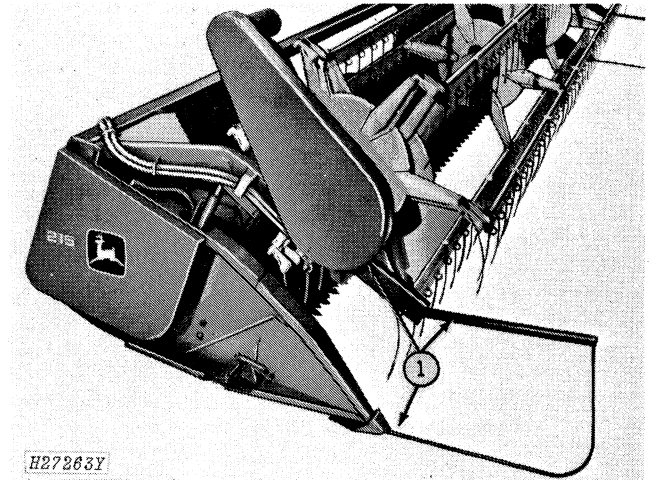


H22192

23. Attach drive shield to pivot shaft, using a flat washer and a 3/8 x 3/4-inch cap screw.
24. Attach drive shield to brackets, using two 3/8 x 3/4-inch cap screws.
25. Attach shield, using a 1/2 x 3-3/4-inch spacer and a 3/8 x 4-3/4-inch round head bolt.
26. Attach shield to drive shield, using two 3/8 x 5/8-inch cap screws.

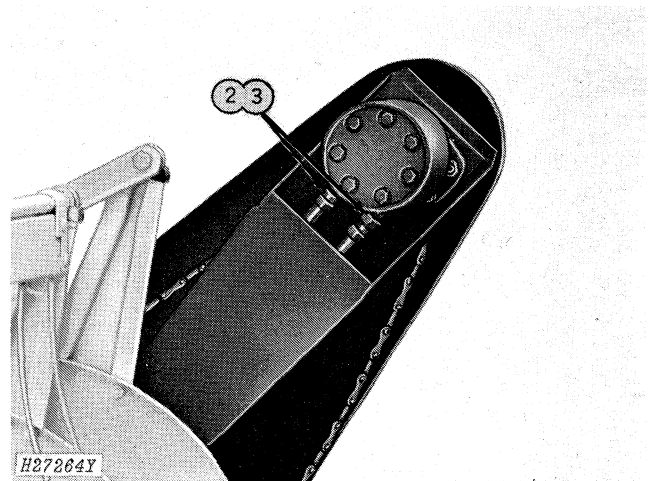
PREPARING 200 SERIES RIGID CUTTING PLATFORM FOR BELT PICKUP (Serial No. 217601-)

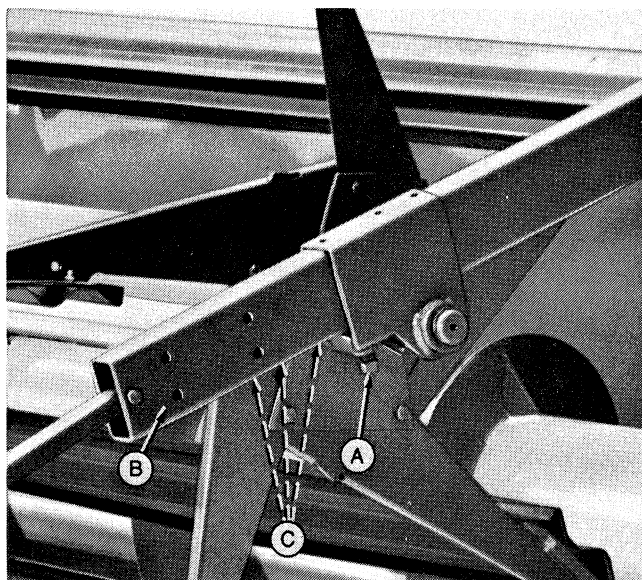
1. Remove and retain loop dividers and hydrostatic drive shield.



R.H. End Illustrated

2. Disconnect hydrostatic drive hoses at motor.
3. Place plugs in ends of hydrostatic drive hoses and ports in motor to keep clean.
4. Place hydrostatic drive hoses (still connected to platform lines) out of the way.





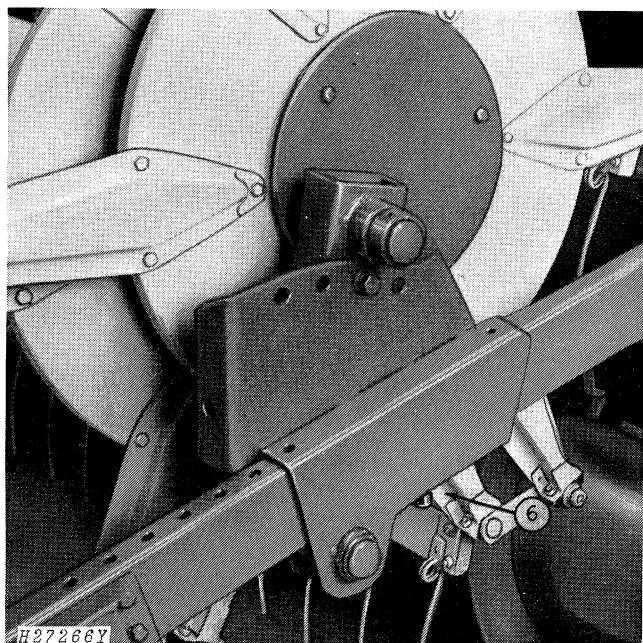
Bat Reel Illustrated

H36885

5. Loosen adjusting screw (A) (both sides) from holes (C) and slide reel and reel drive off reel support arms (B).

⚠ CAUTION: Reel is heavy. Use proper lifting equipment when removing.

A — Adjusting Screw
B — Reel Support Arm
C — Alignment Holes

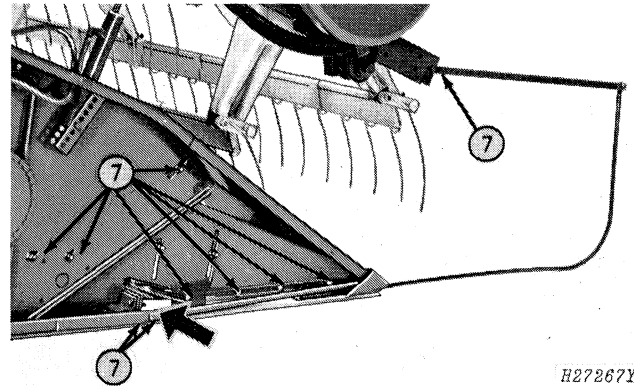


Pickup Reel Illustrated

6. Loosen set screw (both sides) and slide reel off platform support arms.

⚠ CAUTION: Reel is heavy. Use proper lifting equipment when removing.

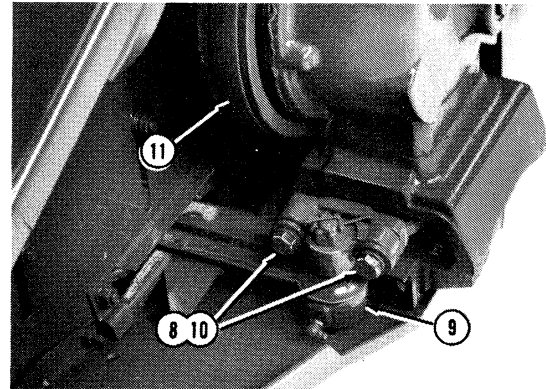
7. Remove and retain right-hand divider point on 13-ft (3.9 m) platform when used with 132-in. (3353 mm) belt pickup only. Divider point has to be removed for clearance of 132-in. (3353 mm) belt pickup. The 3/8-in. round head bolt must be replaced (shown with bold arrow) in cutterbar mounting.



H27267Y

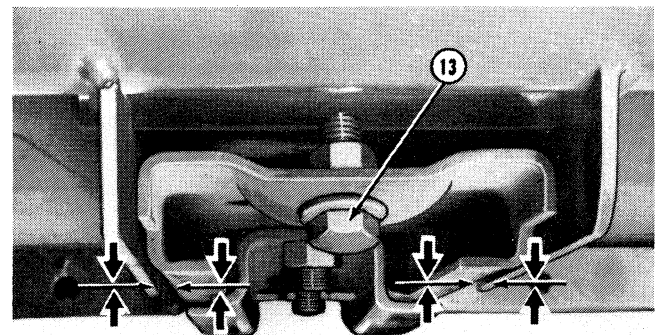
End Shield on 13-Foot (3.9 m) Platform

8. Remove and retain hardware holding sickle to knife drive case.
9. Remove and retain sickle assembly.
10. Place hardware removed in Step 8, back where it was removed, and secure it for storage.
11. Disconnect knife drive case drive by removing belt.
12. See charts to show which guards are to be removed when used with each size belt pickup.



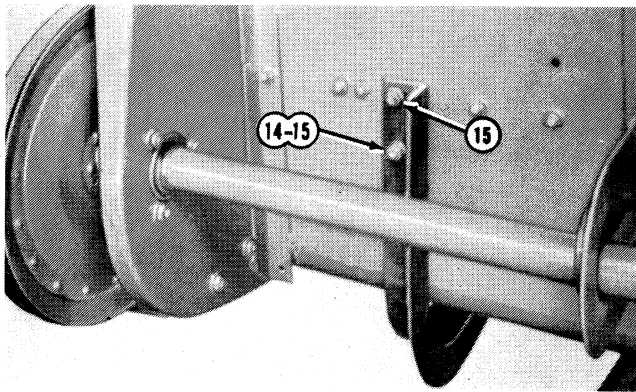
H50140

13. If platform is equipped with skid plates, set cutterbar tilt to maximum downward position. (rear of channel must be all the way up).



H37399

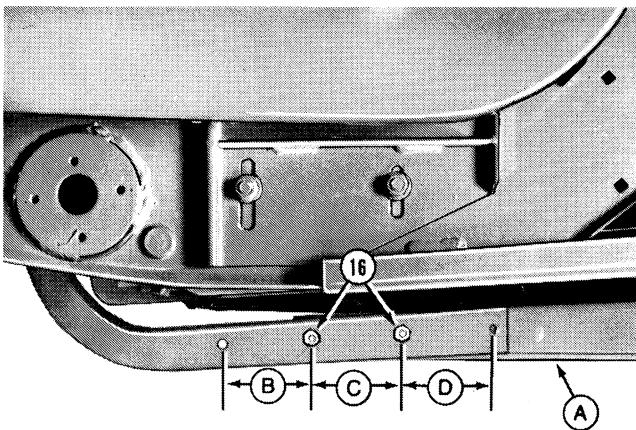
Bottom Edge Viewed at Rear of Platform



L.H. Rear of Platform Illustrated

H37400

14. Drill 13/32-in. (10 mm) holes through second layer of sheet metal. Pilot holes are already through first layer.
15. (Both sides) Secure J-angle with two 3/8 x 1-1/4-in. cap screw, lock washer, 13/32 x 13/16 x 0.060-in. flat washer, and nut.



H36918

- A—Support Arms
 B—Rear Position
 C—4-in. Forward Position
 D—8-in. Forward Position

NOTE: Knife guards must be removed before belt pickup can be mounted.

16. Move combine forward until mounting brackets are a few inches from cutterbar. Slide pickup into position on top of cutterbar. Attach mounting brackets to cutterbar with existing hardware.

Attach belt pickup platform as shown in charts.

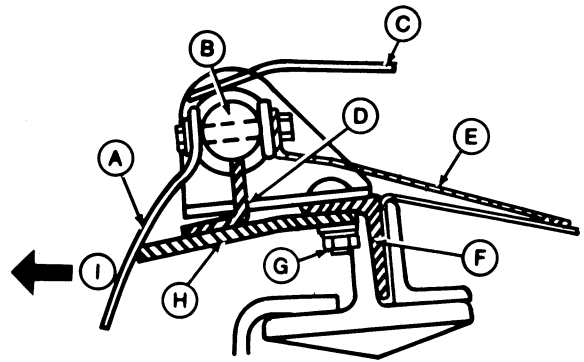
Slide support arms (A) into J-angles and secure with 2 (each side) 3/8 x 1-1/4-in. cap screws, lock washer, 13/32 x 13/16 x 0.060-in. flat washer, and nut.

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

Installing Stripper Support Plate

17. Install stripper support plate (H) in center of cutterbar as shown. Stripper bar support rests on support plate, that is bolted, with offset down, to underside of cutterbar angle.

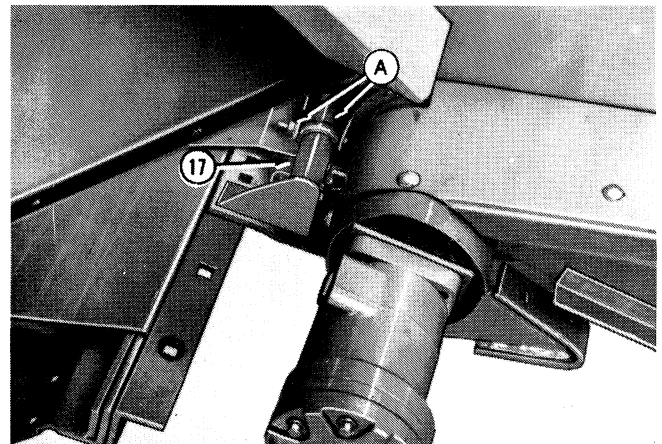
A—Stripper
 B—Stripper Tube
 C—Finger
 D—Stripper Bar Support
 E—Grain Slide
 F—Cutterbar Angle
 G—Two 3/8 x 1-in. Rd. Hd. Bolts
 with 13/32 x 13/16 x .060-in.
 Flat Washers and Nuts.
 H—Support Plate — Off-Set Down
 I—Direction of Travel



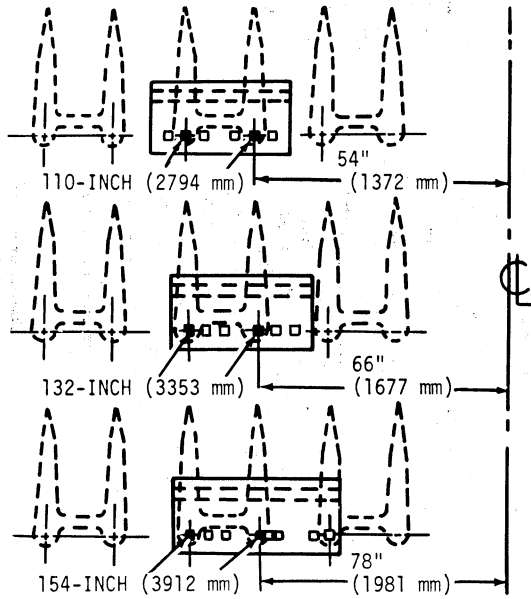
H37398

Place adjustable stripper (A) in stripper holder between belt pickup and platform. Lock in place with cotter key.

A — Stripper



H36919



H36920

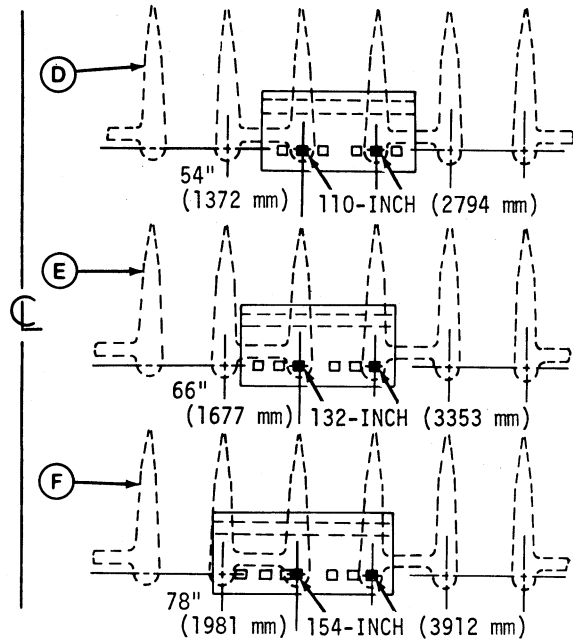
Left-Hand Side Illustrated

A — View A

B — View B

C — View C

Q — Center of Platform



H36921

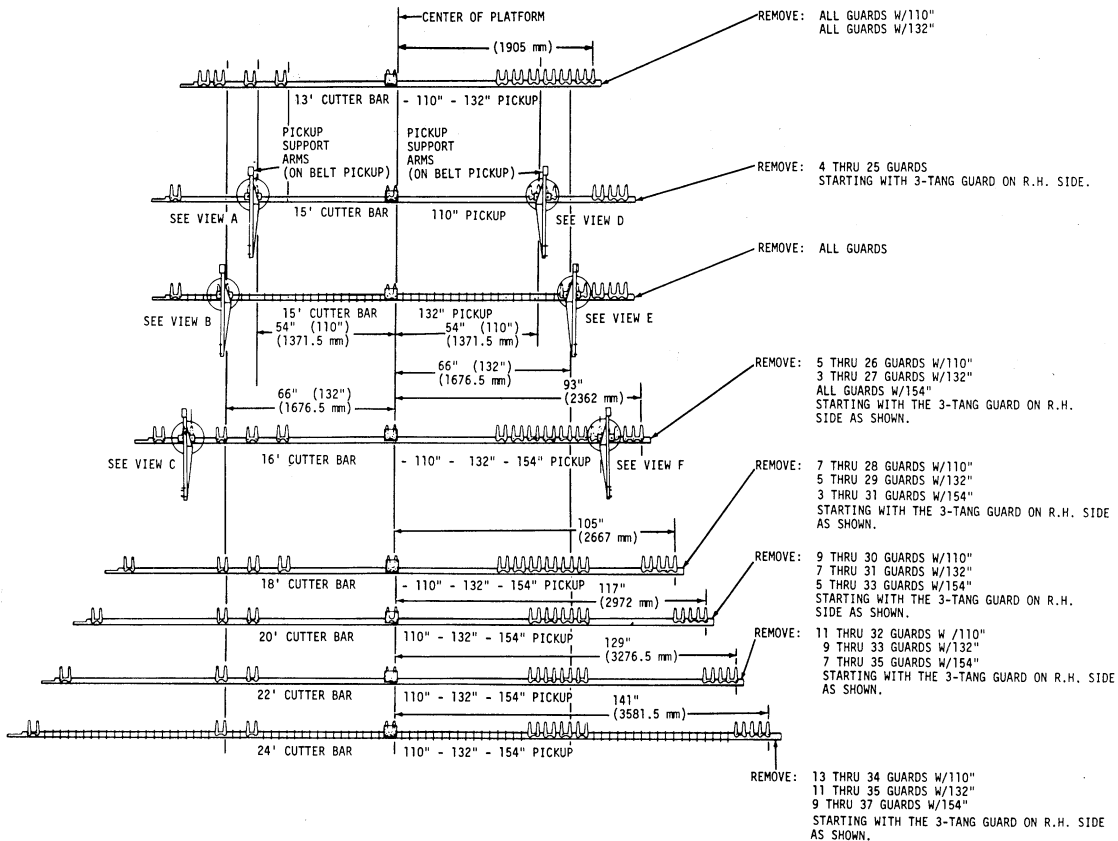
Right-hand Side Illustrated

D — View D

E — View E

F — View F

Q — Center of Platform



H36922

INSTALLING HYDROSTATIC DRIVE PARTS ON 200 SERIES PLATFORMS (Serial No. 217601-

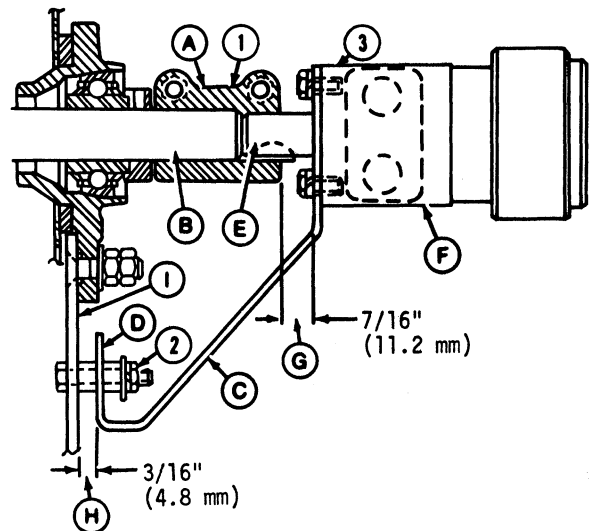
NOTE: The hydrostatic drive motor is mounted on right-hand end of belt pickup.

1. Place $\frac{1}{4}$ x $\frac{7}{8}$ -inch Woodruff key on shaft and slide coupler (A) onto shaft (B).
2. Attach support bracket (C) to belt pickup, using two $\frac{3}{8}$ x 1- $\frac{1}{2}$ -inch cap screws, two $\frac{3}{8}$ -inch pipe spacers (D), two $\frac{13}{32}$ x $\frac{13}{16}$ -inch flat washers, and two $\frac{3}{8}$ -inch nuts.
3. Place $\frac{1}{4}$ x 1-inch Woodruff key on motor shaft (E) and attach motor (F) to bracket (C), using four $\frac{3}{8}$ x $\frac{3}{4}$ -inch cap screws.

NOTE: Intake and exhaust ports on hydrostatic drive motor face toward rear. When using 132-inch (3353 mm) belt pickup on 13-foot (3.9 m) platform, rotate hydrostatic drive motor so ports are at the top. **Do not use 90° fittings.**

4. Remove shield around motor shaft for ease of installation of motor. Hold motor (F) level so output shaft (E) does not bind in coupler. There must be a minimum of 7/16-inch (11 mm) clearance between support bracket (C) and coupler (A) as shown at (G) and a 3/16-inch (5 mm) clearance between support bracket (C) and pickup support arm as shown at (H), then tighten the two 3/8 x 1-3/4-inch cap screws in coupler.

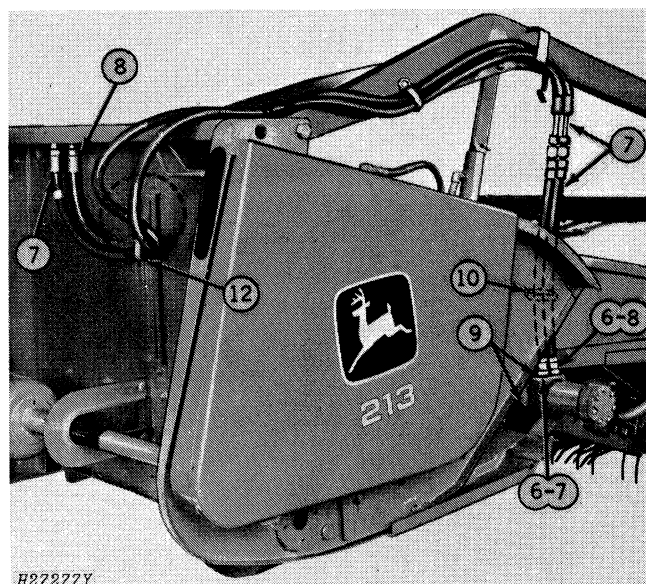
IMPORTANT: It is necessary that support bracket (C) is free to float on spacers.



H36923

132-Inch (3353mm) Belt Pickup Illustrated. Looking Forward on Right-Hand Side

- A — Coupler**
B — Shaft
C — Support Bracket
D — Spacer
E — Motor Shaft
F — Motor
G — 7/16-inch (11.2 mm)
H — 3/16-inch (4.8 mm)
I — Side Sheet



13-Foot (3.9 m) Cutting Platform

5. (Not Illustrated) If cutting platform is equipped with a pickup reel, hydrostatic drive motor ports must be plugged.

If cutting platform is equipped with a bat reel, steel lines to bat reel hydrostatic drive motor must be plugged on both ends.

6. Dip O-rings in hydraulic oil and correctly seat them on connectors, then place connectors in belt pickup hydrostatic drive motor ports. Secure two elbows to two connectors.
7. Attach hose to 90 degree elbow in bottom port on hydrostatic drive motor or the rear port without 90 degree elbow for 132-inch (3353 mm) belt pickup on a 13-foot (3.9 m) platform. Following note shows platform and belt pickup sizes that require extension lines and hoses between existing hoses and 90 degree elbow (or port) on hydrostatic drive motor.

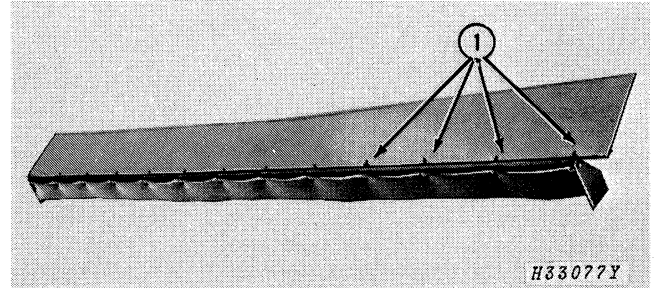
NOTE: The 24-foot (7.3 m) platform, equipped with pickup reel, requires two new additional hoses when used with 110-inch (2794 mm) belt pickup. All 13-, 15-, 16-, 18-, 20-, and 22-foot (3.9, 4.6, 4.9, 5.5, 6.1, and 6.7 m) platforms, equipped with pickup reel when used with 110-, and 132-inch (2235, 2794, and 3353 mm) belt pickups or 24-foot (7.3 m) platforms, equipped with pickup reel when used with 132-inch (2235 and 3353 mm) belt pickups use existing hoses.

The 13-, 15-, 16-, 18-, 20-, 22-, and 24-foot (3.9, 4.6, 4.9, 5.5, 6.1, 6.7, and 7.3 m) platforms, equipped with bat reel when used with 110-, and 132-inch (2235, 2794 and 3353 mm) belt pickups, require two new connecting steel lines and two new hoses.

8. Attach hose to 90 degree elbow in top port on hydrostatic drive motor or front port without 90 degree elbow for 132-inch (3353 mm) belt pickup on a 13-foot (3.9 m) platform. Note following Step 7 shows platform and belt pickup sizes that require extension lines and hoses between existing hoses and 90 degree elbow (or port) on hydrostatic drive motor.
9. Install drive shield over motor shaft, using two 1/4 x 5/8-inch round head machine screws.
10. Hold hoses together with hose clamp, then secure hose clamp to inside of right-hand end sheet.
11. (Not Illustrated) 16-foot (4.9 m) and larger platforms require a second hose clamp midway between hydrostatic drive motor and end sheet. Attach clamp through guard mounting hole, using 3/8 x 1-1/4-inch cap screw, lock washer, and nut.
12. Loop any excessive hydraulic hose, as shown with dotted lines, through existing hose clamp.
13. Route hose through clamps on feeder house and connect at couplers under operator platform.

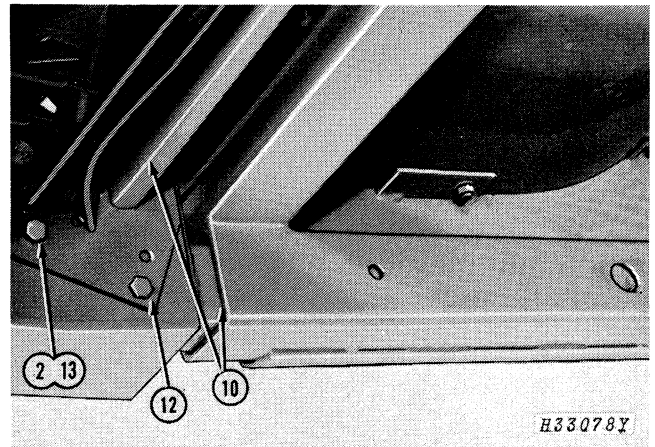
PREPARING BELT PICKUP ON THE PICKUP PLATFORM (Serial No. 217601-)

1. Attach grain slide to stripper studs with 1/4-inch lock washers and nuts. Do not over tighten.



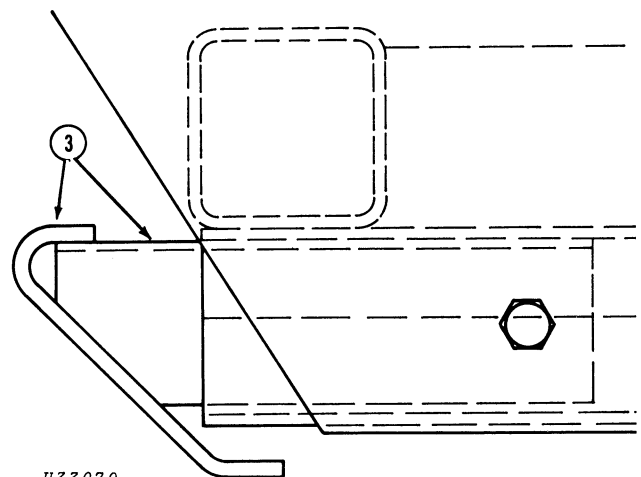
132-inch (3353 mm) Stripper Illustrated

2. Attach stripper at front hole only with 3/8 x 1-inch cap screw and self-locking nut on left-hand side. Use existing hardware at front hole only on right-hand side. Do not tighten at this time.



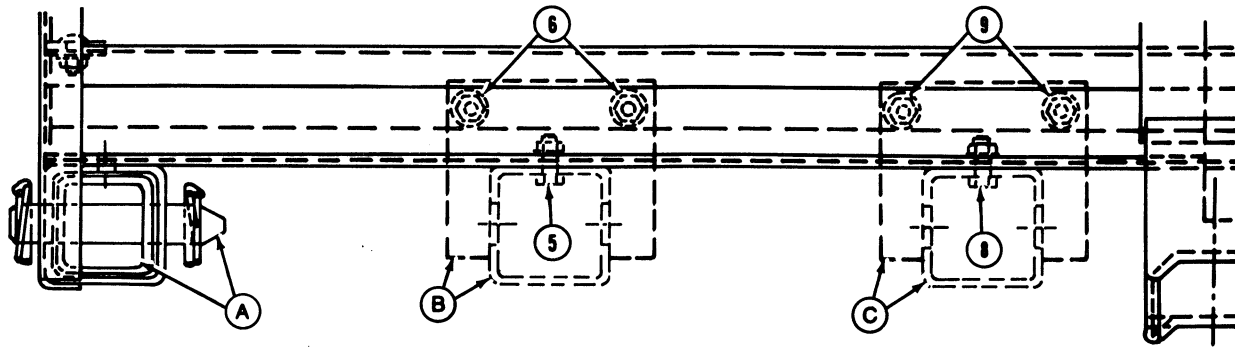
132-inch (3353 mm) Belt Pickup R.H. Side Illustrated

3. (110-inch [2794 mm] Belt Pickup) When using 110-inch (2794 mm) belt pickup, you must plug 132-inch (3353 mm) support arm channels with two runner assemblies and secure with two 1/2 x 3-3/4-inch cap screws and self-locking nuts.



H33079

Runner to Plug 132-inch (3353 mm) Belt Pickup Support Arm Channels



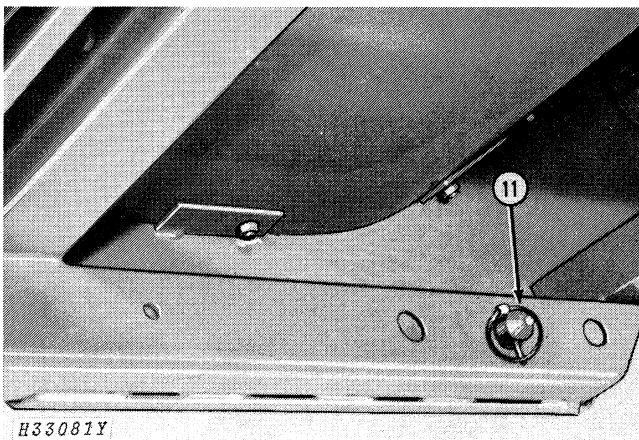
H36924

A — 132-inch (3353 mm) Support Arm
Tube Position on 212 Platform
— 154-inch (3912 mm) Support Arm
Tube Position on 214 Platform

B — 110-inch (2794 mm) Support Arm
Tube Position on 212 Platform
— 132-inch (3353 mm) Support Arm
Tube Position on 214 Platform

C — 110-inch (2794 mm) Support Arm
Tube Position on 214 Platform

4. (110-inch [2794 mm] on 212 or 132-inch [3353 mm] on 214 Belt Pickups) Place support arm channels (B) in position as shown on both sides by aligning with existing holes.
5. (110-inch [2794 mm] on 212 or 132-inch [3353 mm] on 214 Belt Pickups) Secure rear of channels with one 3/8 x 1-inch cap screw and self-locking nut (each side).
6. (110-inch [2794 mm] on 212 or 132-inch [3353 mm] on 214 Belt Pickups) Secure front of channels with two 3/8 x 3-3/4-inch cap screws and self-locking nuts (each side).
7. (110-inch [2794 mm] —214 only Belt Pickup) Place support arm channels (C) in position, as shown, on both sides by aligning with existing holes.
8. (110-inch [2794 mm] —214 only Belt Pickup) Secure rear of channels with one 3/8 x 1-inch cap screw and self-locking nut (each side).
9. (110-inch [2794 mm] —214 only Belt Pickup) Secure front of channels with two 3/8 x 3-3/4-inch cap screws and self-locking nuts (each side).
10. Slide belt pickup support arms into pickup platform. Hold stripper grain slide up as belt pickup is moved into position.
11. Let stripper grain slide down as belt pickup is moved into position. Place pin in hole (mid-position).
12. Secure 3/8 x 1-inch cap screw and self-locking nut in Step 2 (both sides) in stripper. Also secure hardware installed.
13. Secure cap screws in front of stripper from Step 2.

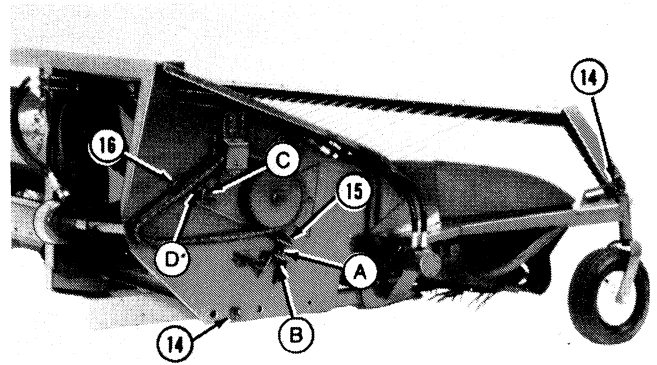


H33081Y
 132-inch (3353 mm) Belt Pickup Illustrated on 212 Platform or
 154-inch (3912 mm) Belt Pickup on 214 Platform.

14. Set belt pickup support arms in mid-position hole (Step 11) and set hold-down in middle of adjusting slot.
15. (Auger adjustment to platform bottom—both sides) Adjust auger for a clearance of 1/4-in. (6 mm) between auger flights and bottom of platform. Loosen nut (A) and tighten nut (B) to move auger down. Loosen nut (B) and tighten nut (A) to move auger up. Tighten nuts (A) and (B).

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

16. (Auger adjustment to stripper—both sides) Auger to stripper clearance must be 1/4-in. (6 mm). To move forward, loosen nut (C) and tighten nut (D). Reverse for adjusting auger to rear. Tighten nuts (C) and (D).

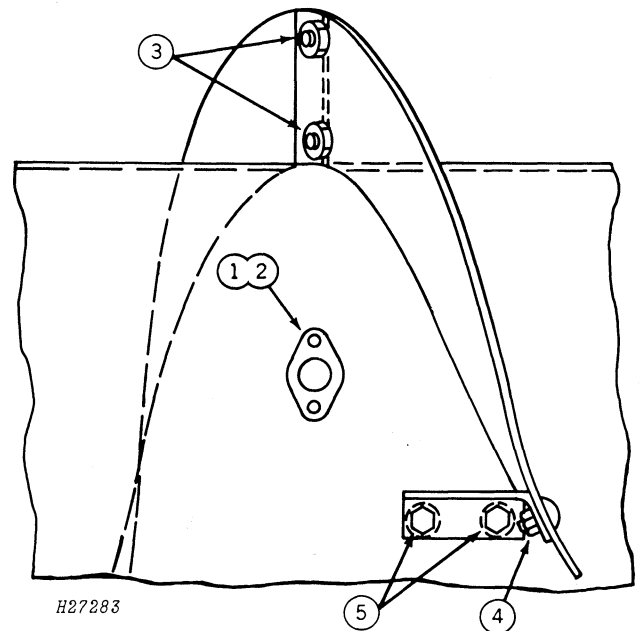


Shield Removed for Illustrative Purposes

H50141

INSTALLATION OF AUGER FLIGHT EXTENSIONS FOR 4420 AND 4425 COMBINES PICKUP PLATFORM

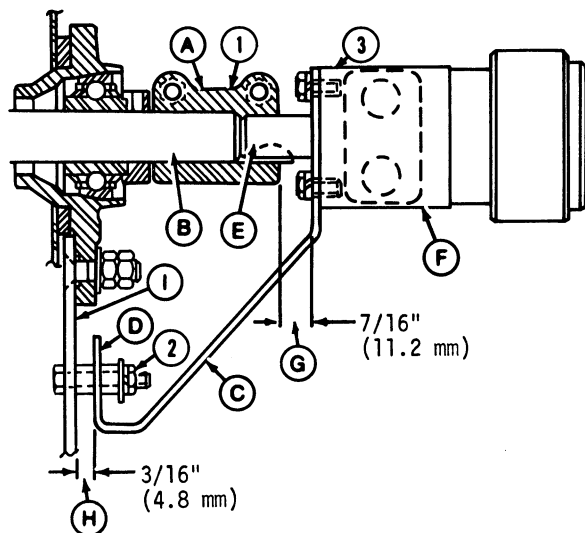
1. Remove three auger fingers, each end of auger finger pattern.
2. Secure three auger finger covers, each end, using six 5/16-in. button head self-tapping screws.
3. Drill two 13/32-in. (10 mm) diameter holes in end of auger flight. Attach extension to flight with two 5/16 x 3/4-in. round head bolts, lock washers, and nuts provided.
4. Attach clip to extension with two 5/16 x 3/4-in. round head bolts, lock washers, and nuts provided.
5. Use clip as template and drill two 13/32-in. (10 mm) diameter holes in auger. Attach clip to auger with two 3/8 x 7/8-in. cap screws, flat washers, lock washers, and nuts provided. Flat washers must go inside auger.



H27283

H27283

INSTALLING HYDROSTATIC DRIVE PARTS ON PICKUP PLATFORMS (Serial No. 217601-)



H36923

132-inch (3353 mm) Belt Pickup Illustrated

- A — Coupler
- B — Shaft
- C — Support Bracket
- D — Spacer
- E — Motor Shaft
- F — Motor
- G — 7/16-inch (11.2 mm)
- H — 3/16-inch (4.8 mm)
- I — Side Sheet

NOTE: Hydrostatic drive motor is mounted on right-hand end of belt pickup.

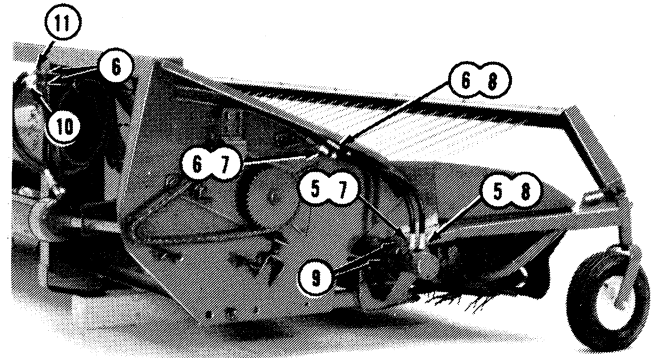
1. Place 1/4 x 7/8-inch Woodruff key on shaft and slide coupler (A) onto shaft (B).
2. Attach support bracket (C) to belt pickup, using two 3/8 x 1-1/2-inch cap screws, two 3/8 x 1/2-inch pipe spacers (D), two 13/32 x 13/16-inch flat washers, and two 3/8-inch nuts.
3. Place 1/4 x 1-inch Woodruff key on motor shaft (E) and attach motor (F) to bracket (C) using four 3/8 x 3/4-inch cap screws.

NOTE: Ports on hydrostatic drive motor face upwards.

4. Remove shield around motor shaft for ease of installation of motor. Hold motor (F) level so output shaft (E) does not bind in coupler. There must be a minimum of 7/16-inch (11 mm) clearance between support bracket (C) and coupler (A) as shown at (G), and a 3/16-inch (5 mm) clearance between support bracket (C) and pickup support arm as shown at (H), then tighten two 3/8 x 1-3/4-inch cap screws in coupler.

IMPORTANT: Support bracket (C) must be free to float on spacers.

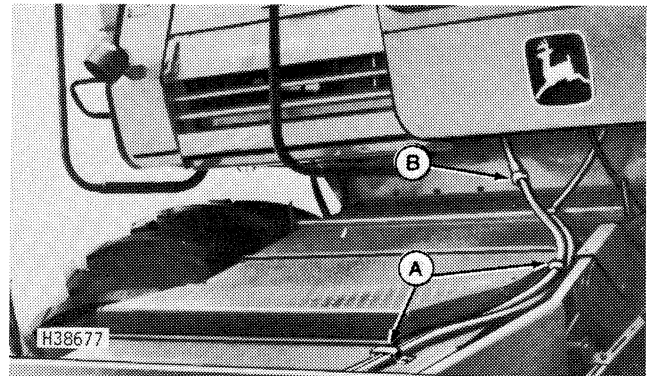
5. Dip O-rings in hydraulic oil and correctly seat them on straight connectors. Install connectors in belt pickup hydrostatic drive motor ports. Install 90° elbow on each connector on 110-in. (2794 mm) belt pickups.
6. Remove plugs from both ends of steel lines.
7. Attach pressure hose to rear port of hydrostatic drive motor and lower pressure steel line.
8. Attach hose to front port of hydrostatic drive motor and upper steel line.
9. Secure drive shield over motor shaft, using two 1/4 x 5/8-in. round head machines screws.
10. Install O-ring into hose and then install nose to hose. Attach hose (with female fitting) to upper steel line.



H50142

12-Foot (3.9 m) Pickup Platform
Shield Removed

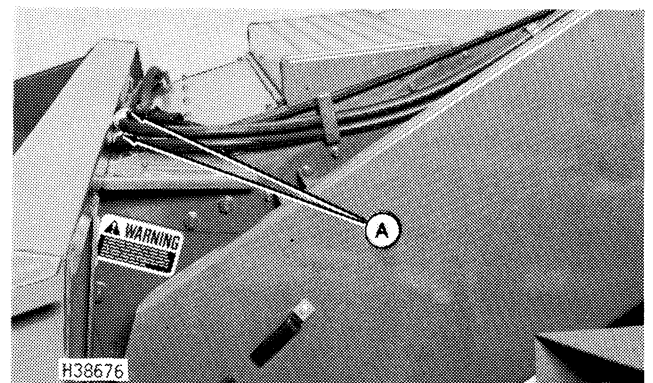
11. Install O-ring into hose and then install body to hose. Attach hose (with female fitting) to upper steel line.
12. Combine Serial No. (-600000). Route hoses through clamps (A) on feeder house.
13. Combine Serial No. (-600000). Attach two hoses to couplers (B) from control valve.



H38677

Combines Serial No. (-600000)

14. Combine Serial No. (600001-). Attach two hoses to hose connectors from belt pickup (A). Lay hoses across feeder house as shown.



H38676

Combines Serial No. (600001-)



Specifications

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

(Specifications and design subject to change without notice)

Platform Widths 212 or 214

Pickup Widths 110, 132, 154 in.
(2794, 3353, 3912 mm)

Platform Height Control Hydraulic

Pickup Belts:

Width of belts 22 in. (559 mm)

Number of belts per pickup:

110 in. (2794 mm) 5

132 in. (3353 mm) 6

154 in. (3912 mm) 7

Operating speed of belts 53—475 ft./min.
(16—145 m/min.)

Number of rollers 3

Vari-Belt Feeder House Speeds

6620—7720 (-610000) ... 460-470 RPM.

6620—7720 (610001-) ... 490-500 RPM.

8820 490-500 RPM.

Pickup Carriage Adjustment Fore-and-aft
through 8 in. (203 mm) range

Extension 0, 4, 8 in. (0, 102, 203 mm)
(Pickup Platforms and 200 Series Platforms)

Pickup Fingers:

Type plastic

Number of fingers per belt 60

Auger:

Float range 1-1/2-in. (38.1 mm)

Diameter 24 in. (610 mm)

Auger fingers Heavy-duty, round, 5/8-in.
(15.9 mm) diameter with breakaway notch

Number of auger fingers 18

Auger finger pattern Spiral, retracting

Finger reach 6 in. (152 mm)

Operating speed 150 rpm

Tires:

Pressure 20 psi (1.40 bar)

Approximate Shipping Weights:

(Includes shipping skid)

212 Pickup Platform 975 lbs. (443 kg)

214 Pickup Platform 1050 lbs. (477 kg)

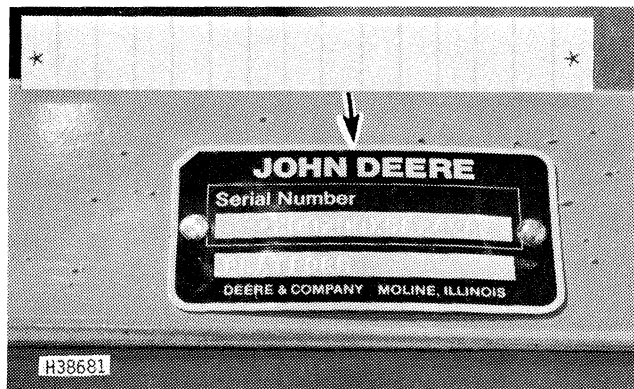
*110-in. Belt Pickup 588 lbs. (267 kg)

*132-in. Belt Pickup 803 lbs. (365 kg)

*154-in. Belt Pickup 855 lbs. (388 kg)

*Does not include weight of platform.

MODEL NUMBER		
☐ 110-inch	☐ 132-inch	☐ 154-inch
Date of Purchase _____		
<i>(To be filled in by purchaser)</i>		



H38681

PICKUP PLATFORM SERIAL NUMBER

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

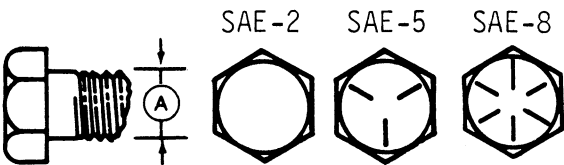
When ordering parts, always bring the serial number as shown on serial number plate. This will help your John Deere dealer in giving you fast service.

BOLT TORQUE VALUES

The tables shown below give correct torque values for various bolts and cap screws. Check bolts to see that they are tight, using bolt torque chart as a guide.

U.S. MEASUREMENT

Bolt Diameter "A"	Bolt Torque in Ft-Lbs (N•m)					
	SAE 2		SAE 5		SAE 8	
1/4"	Not	Used	14	(10)	19	(14)
5/16"	Not	Used	27	(20)	41	(30)
3/8"	23	(31)	35	(47)	50	(68)
7/16"	35	(47)	55	(75)	80	(108)
1/2"	55	(75)	85	(115)	120	(163)
9/16"	75	(102)	130	(176)	175	(237)
5/8"	105	(142)	170	(231)	240	(325)
3/4"	185	(251)	300	(407)	425	(576)
7/8"	160	(217)	445	(603)	685	(929)
1"	250	(339)	670	(910)	1030	(1396)
1-1/4"	330	(450)	910	(1235)	1460	(1979)

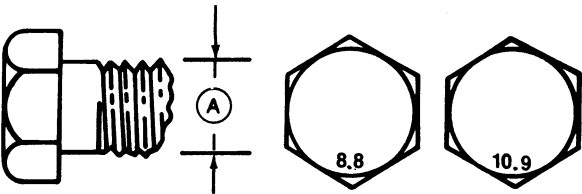


Replace hardware with same strength bolt.

E19562

METRIC MEASUREMENT

Bolt Diameter "A"	Bolt Torque in Ft-Lbs (N•m)			
	8.8		10.9	
5 mm	5	(6)	7	(9)
6 mm	9	(11)	13	(17)
8 mm	20	(28)	30	(40)
10 mm	40	(55)	59	(80)
12 mm	70	(95)	103	(140)
16 mm	173	(235)	258	(350)
20 mm	350	(475)	498	(675)
24 mm	608	(825)	863	(1170)
30 mm	1201	(1630)	1712	(2320)



NOTE: Bolts having lock nuts must be torqued to about 65% of amounts shown in above chart.

E19563



Index

A		O	
Attaching and Detaching	4-32	Operating the Combine	34
Adjusting Auger	39	P	
Assembly and Installation	66-87	Pickup Height	38
Support Arms, Belt and		Pickup Pitch	36
Hold-Down	66	Pickup Speed	35
Preparing 6601 Platform For		6601 Mechanical Drive	35
Belt Pickup	68	Hydrostatic	35
Install Stripper Support		S	
Plate	69	Safety	2-3A
Install Belt Pickup	69	Safety Decal Location	3B
Install Mechanical Drive Parts		Service	54
and Shields on 6601	71	Connecting Hoses	54
Preparing 200 Series	75	Tightening Pump Drive Belt	55
Installing Hydrostatic Drive Parts	81	Adjusting Drive Belt (6601)	56
Install Auger Flight Extensions		Adjusting Lower Drive Chain	56
4420, 4425	85	Adjusting Pickup Belts	57
Adjusting Gauge Wheels	38	Replace Fingers	59
Adjusting Windrow Hold-Down	38	Strippers (200 Series)	60
B		Tire Inflation	60
Bolt Torque Values	91	Storage	61
C		Specifications	89,90
Crime Prevention	62-64	T	
D		Transporting	33
DIAL-A-MATIC	40	Trouble Shooting	49-53
Electrical	40		
Disconnecting	41		
Hydraulic System	41		
Adjustments	42		
Linkage	42		
Housing	43		
Drop Rate Valve	43		
Actuating Switch	44		
L			
Lubricants	46		
Lubricants and Maintenance	47-48		

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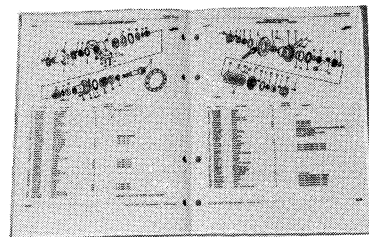
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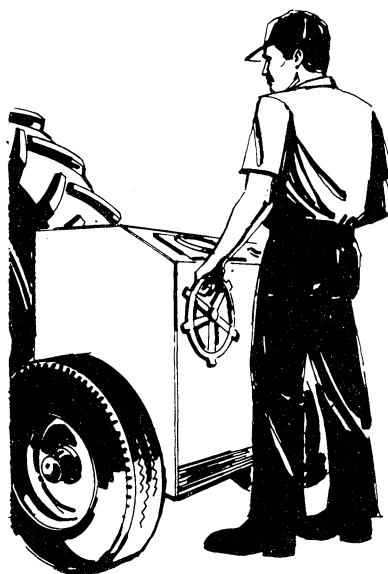
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