

# MacDon

## Model 960 Harvest Header COMBINE ADAPTER

## OPERATOR'S MANUAL SUPPLEMENT

for

John Deere 7720, 8820, 9500, 9600 and CTS Combines  
Case IH 1460, 1660, 1480 and 1680 Combines  
Gleaner R60, R70, R6, R7, 1982 and up N6 and N7 Combines  
Massey Ferguson 860, 8570, 8450 and 8460 Combines  
Ford New Holland TR and TX Combines  
Claas 96, 106, 98 and 108 Combines  
White 2600 Combine

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## INTRODUCTION

This Manual Supplement contains information on the adapter which is required to allow attachment of the MacDon Model 960 Harvest Header to the various models of combines (see list on cover).

**NOTE:** This supplement does not provide all the information required to operate the header. It must be used in conjunction with your Harvest Header and Combine Operator's Manuals.

**CAREFULLY READ ALL MANUALS TO BECOME FAMILIAR WITH RECOMMENDED PROCEDURES BEFORE ATTEMPTING TO UNLOAD, ASSEMBLE OR USE THE MACHINE.**

This manual is divided into sections on: Safety, Attaching and Detaching the Header, Operation and Maintenance/Service. In addition, Assembly and Adapter Mounting Instructions for each type of combine are found at the back of this book.

Use the Table of Contents and the Index to guide you to specific areas. Study the Table of Contents to familiarize yourself with how the material is organized.

Keep this manual handy for frequent reference and to pass on to new operators or owners. Call your dealer if you need assistance, information or additional copies of the manual.

**NOTE:** Right hand (R/H), and Left hand (L/H) designations are determined from the operators position, facing forward.

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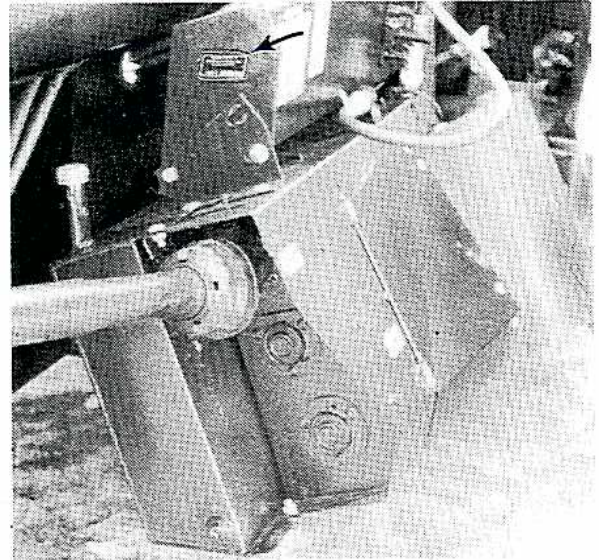


## SERIAL NUMBER LOCATION

Record the serial number in the space provided.

Combine Adapter: \_\_\_\_\_

Plate is located on left side of adapter frame.



COMBINE ADAPTER SERIAL PLATE

**NOTE:** When ordering parts and service, be sure to give your dealer the complete and proper serial number.

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## SPECIFICATIONS

### FEED DRAPER

DRIVE: Mechanical  
TYPE: Self-tracking rubber coated polyester fabric with rubber slats  
WIDTH: 37.4" (950 mm) or 54.9" (1395 mm), depending on combine  
SPEED: 560 ft/min. (170 m/min.)

### FEED AUGER

DRIVE: Hydraulic  
SIZE: 16" (400 mm) diameter  
SPEED: Varies with side drapers (0 to 400 RPM)

### HEADER FLOTATION

8" (200 mm) vertical and 5° lateral

# SAFETY

## SAFETY ALERT SYMBOL



This safety alert symbol indicates important safety messages in this manual and on safety signs on the machine.

This symbol means:     **ATTENTION !**  
                                  **BECOME ALERT !**  
                                  **YOUR SAFETY IS INVOLVED !**

Carefully read and follow the safety message accompanying this symbol.

Why is SAFETY important to you?

3 BIG REASONS

- ACCIDENTS DISABLE AND KILL
- ACCIDENTS COST
- ACCIDENTS CAN BE AVOIDED

---

## SIGNAL WORDS

Note the use of the signal words DANGER, WARNING, and CAUTION with safety messages. The appropriate signal word for each message has been selected using the following guidelines:



- an immediate and specific hazard or forbidden practice which **WILL** result in severe personal injury or death if the message is not followed.



- a specific or unsafe practice which **COULD** result in severe personal injury or death if the message is not followed.



- unsafe practice which could result in personal injury if the message is not followed, or a reminder of good safety practices.

# SAFETY

## SAFETY SIGNS

- The safety signs below appear on the combine adapter.
- Keep safety signs clean and legible at all times
- Replace safety signs that are missing or become illegible.
- If original parts on which a safety sign was installed are replaced, be sure the repair part also bears the current safety sign.
- Safety signs are available from your Dealer Parts Department.

### To install safety signs:

1. Be sure the installation area is clean and dry.
2. Decide on the exact location before you remove the decal backing paper.
3. Remove the smaller portion of the split backing paper.
4. Place the sign in position and slowly peel back the remaining paper, smoothing the sign as it is applied.
5. Small air pockets can be smoothed out or pricked with a pin.





# HEADER ATTACHING & DETACHING

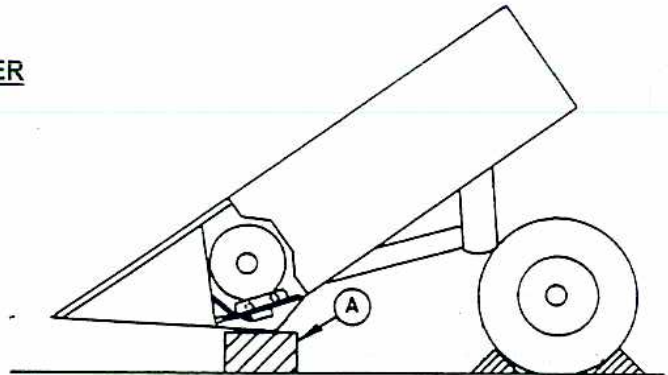
## ATTACHING HEADER TO COMBINE AND ADAPTER

1. Attach adapter to combine feeder housing. See "Adapter Mounting Instruction" at back of book.

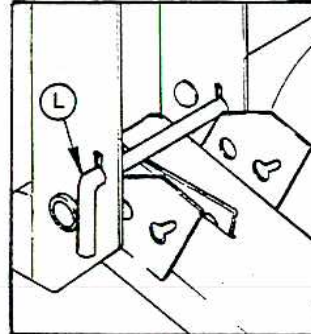
**NOTE:** If header has been previously attached to windrower, remove linkage supports from header lower legs. Connector shaft on header back tube may remain installed.

2. Choose an area that is as level as possible, and support both ends of cutterbar 6" (150 mm) off ground (A).
3. For headers with gauge wheels, block both wheels front and rear, and be sure gauge wheel pins are in stand position (L), both sides, to support rear of header.

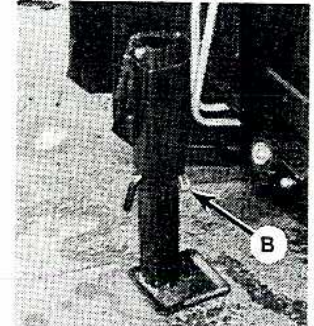
For headers without gauge wheels, be sure header stand is secure in the down position (B).



BLOCK CUTTERBAR



GAUGE WHEELS



HEADER STAND

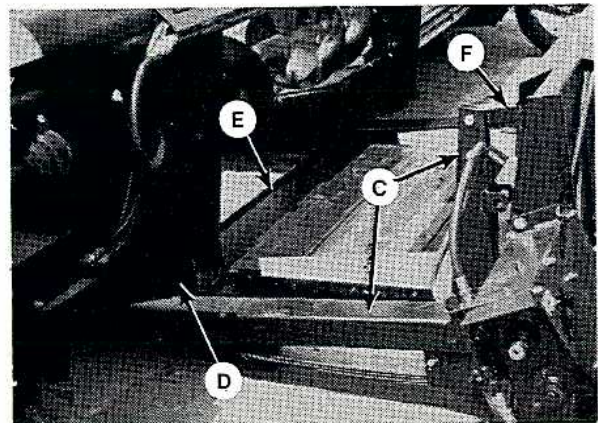


**CAUTION:** Be sure area is clear of bystanders before starting engine.

4. Slowly drive combine forward and engage adapter legs (C) in header legs (D).

Continue forward until lip of adapter (E) is under cutterbar and catch (F) engages under stop in header leg.

**IMPORTANT:** Take care not to crush hydraulic hoses when driving into header.



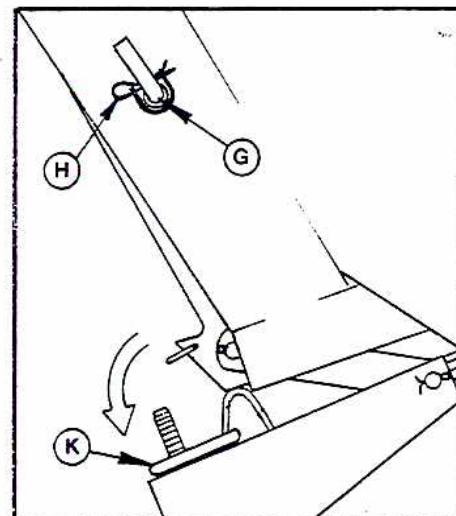
ALIGN MOUNTING LEGS

5. Raise header, stop engine and remove key.



**DANGER:** To avoid bodily injury from fall of raised header, engage header lift cylinder stops when working on or around raised header. See your Combine Operator's Manual for details.

6. Attach adapter to header with pin (G), both sides. Note that pin (G) has a spring pin installed near the bend. Position hair pin (H) to capture spring pin between header leg and hair pin.
7. Disengage float lock-out by lowering retainers to position (K).



INSTALL PINS & DISENGAGE FLOAT LOCK



## HEADER ATTACHING & DETACHING

### ATTACHING HEADER TO COMBINE AND ADAPTER (continued)

8. Install driveline on chain case shaft (J): Pull back spring-loaded collar on driveline yoke and slide yoke onto chain case top shaft. Release collar, ensuring yoke locks in position on shaft.

**NOTE:** For 21' Header on some combine models, it will be necessary to modify driveline. See Mounting Instructions at back of this book.

9. Make the hydraulic line connections:

Reel drive pressure and return lines: For John Deere, Massey Ferguson and Claas combine adapters, connect hoses from header to the appropriate couplers on the combine.

For Case, Gleaner, and New Holland combine adapters, connect hoses from header to couplers on adapter, then complete the connections from adapter to combine.

Reel lift line: Connect hose from header to reel lift coupler on combine.

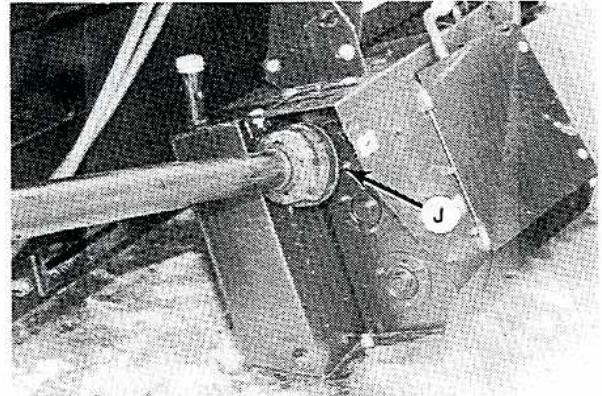
Draper drive pressure and return lines: Connect hoses from header to appropriate couplers on adapter.

**NOTE:** As an aid in connecting hydraulics, the following colour coding has been used:  
RED - Draper Drive Pressure  
BLUE - Draper Drive Return  
YELLOW - Reel Drive Return

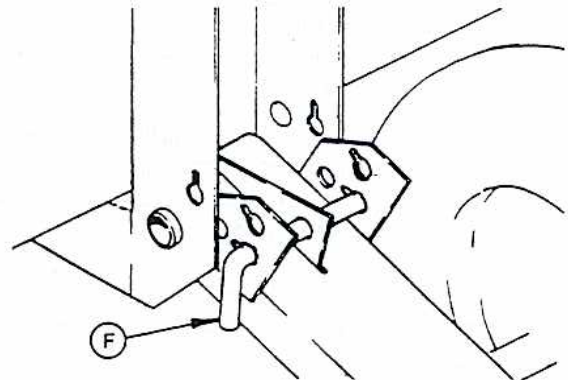
10. For headers with gauge wheels, remove pins at gauge wheels and place in field position (F). (For headers with gauge wheel/transport option, gauge wheel support is not exactly as illustrated. See decal at support.)

**NOTE:** Rotate pin to align roll pin with key slot for removal and installation. Roll pin locks inside to secure the position.

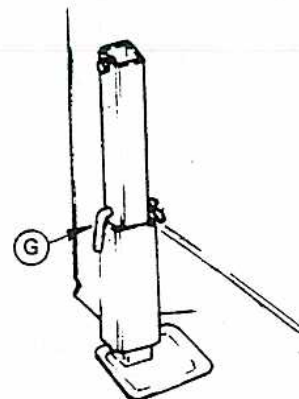
11. For headers without gauge wheels, raise header stand to storage position (G).
12. Disengage header lift cylinder stops and lower header.



ATTACH DRIVELINE



GAUGE WHEELS - FIELD POSITION



HEADER STAND - STORAGE POSITION



# HEADER ATTACHING & DETACHING

## DETACHING HEADER FROM COMBINE AND ADAPTER

Using this procedure, adapter will remain attached to the combine. This would be appropriate when header is to be used as a windrower. Instructions for detaching both header and adapter from combine are given on the next page.

1. Choose a level area. Lower the reel and raise the header. Stop engine and remove key.



**DANGER:** To avoid bodily injury from fall of raised header, engage header lift cylinder stops when working on or around raised header. See your Combine Operator's Manual for details.

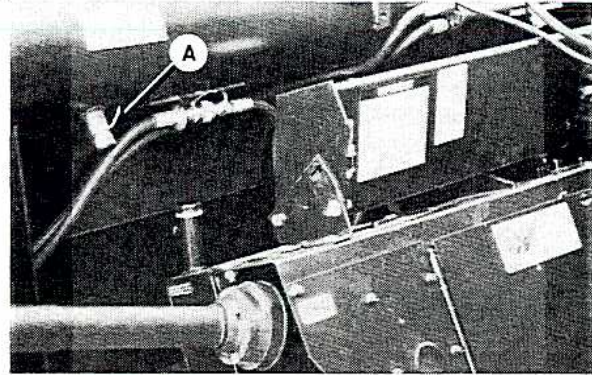


**DANGER:** Wait for all movement to stop. A rotating driveline can cause entanglement resulting in serious personal injury or death.

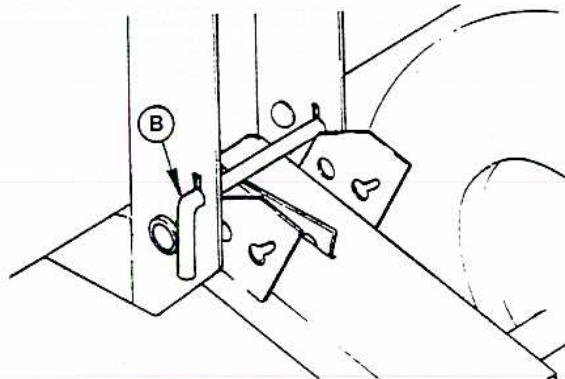
2. Disconnect driveline from chain case shaft and store on welded pin (A) on header tube.
3. Disconnect five hydraulic lines:
  - Reel lift at combine quick coupler.
  - Reel drive pressure and reel return at header hose quick couplers.
  - Draper return (blue) and auger/draper drive pressure (red) at adapter quick couplers.

**IMPORTANT:** Couple or cap all lines to prevent hydraulic system contamination. Be sure header stored hoses and combine stored hoses are not entangled.

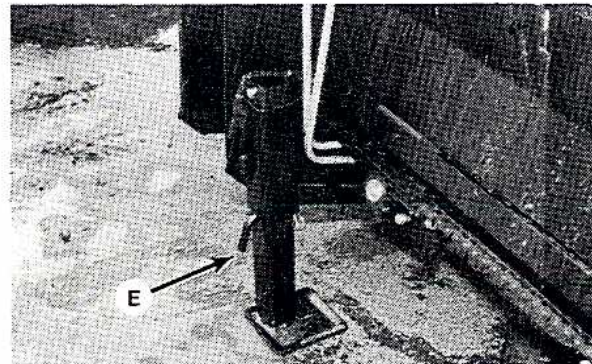
4. Set 6" (150 mm) blocks beneath the cutterbar, approximately 18 inches (450 mm) from each end of header.
5. For headers with gauge wheels, remove pins at gauge wheels and place in stand position (B). Block both gauge wheels. For headers without gauge wheels, lower header stand into position (E).
6. Move float lock-out retainers to engaged position (C).
7. Remove pins (D) securing adapter legs to header legs.
8. Disengage header lift cylinder stops, start engine and lower header onto blocks.
9. Slowly back away from header.



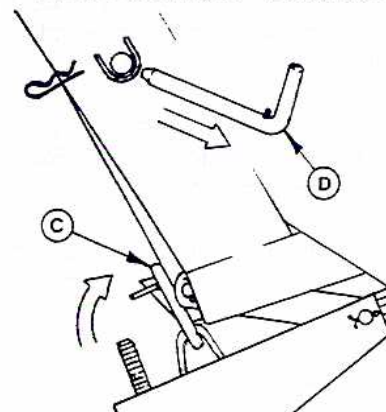
DISCONNECT AND STORE DRIVELINE



GAUGE WHEELS - STAND POSITION



HEADER STAND - LOWERED



LOCK OUT FLOAT AND REMOVE HEADER PINS - BOTH SIDES



# HEADER ATTACHING & DETACHING

## DETACHING HEADER AND ADAPTER FROM COMBINE

Using this procedure, adapter will remain attached to the header. This would be appropriate when detaching header for transport. Instructions for detaching header only from adapter and combine are given on the previous page.

1. Choose a level area. Lower the reel and raise the header. Stop engine and remove key.



**DANGER:** To avoid bodily injury from fall of raised header, engage header lift cylinder stops when working on or around raised header. See your Combine Operator's Manual for details.

2. Move float lock-out retainers to engaged position (A).
3. Disconnect hydraulic lines at combine quick couplers:
  - Reel drive pressure line.
  - Reel lift line.
  - Flow return line.
  - Reel hydraulic fore-aft hoses (if applicable)Couple or cap all lines to prevent hydraulic system contamination.

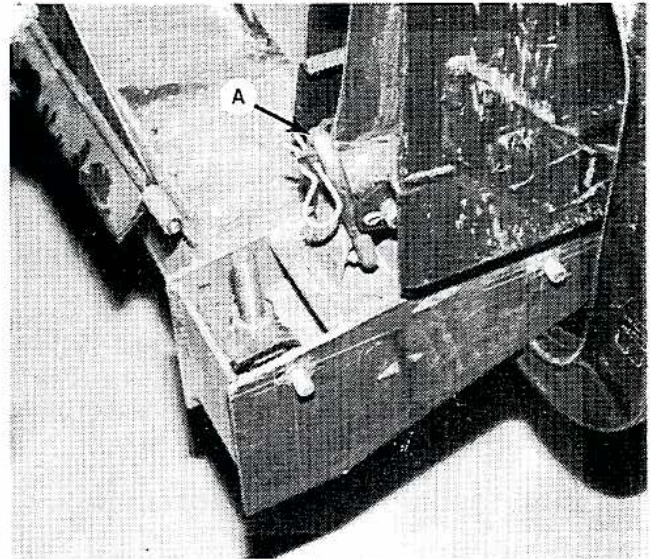
**IMPORTANT:** Be sure header stored hoses and combine stored hoses are not entangled.



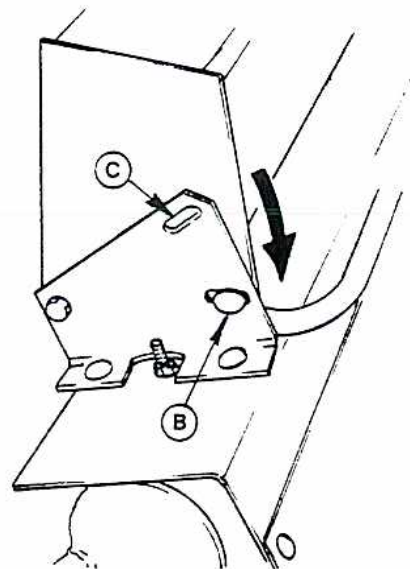
**DANGER:** Wait for all movement to stop before approaching driveline. A rotating driveline can cause entanglement resulting in serious personal injury or death.

4. Disconnect driveline from combine feeder house output shaft. See Mounting Instruction at back of book.
5. Disengage the header lock system. See Mounting Instruction at back of book.
6. Disengage header lift cylinder stops, start engine and lower header to ground.
7. Slowly back combine away from header.

**NOTE:** Where it is necessary to reduce the transport width of the header/combine adapter package, remove chain case pivot bolt (B), swing chain case in to transport position, align slot (C) with hole and reinstall bolt.



LOCK OUT FLOAT LINK - BOTH SIDES



CHAIN CASE PIVOT

# HEADER ATTACHING & DETACHING

## ATTACHING HEADER AND ADAPTER TO COMBINE

1. If applicable, block both gauge wheels front and rear (B).

**NOTE:** Choose an area that is as level as possible.



**CAUTION:** Be sure area is clear of bystanders before starting engine.

2. Drive combine slowly forward and engage feeder house lifting device in adapter top cross member. See Mounting Instruction at back of book for details.

3. Raise header, stop engine and remove key.



**DANGER:** To avoid bodily injury from fall of raised header, engage header lift cylinder stops when working on or around raised header. See your Combine Operator's Manual for details.

4. Connect feeder house lock system at bottom of adapter. See Mounting Instruction at back of book.

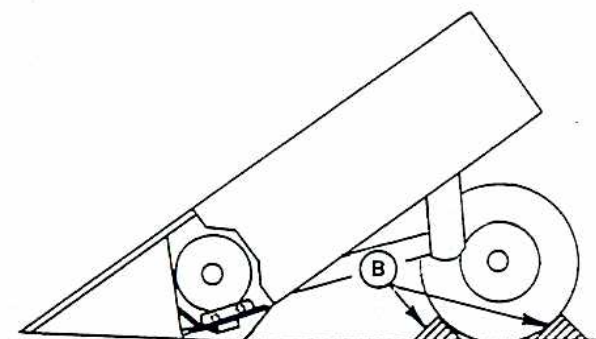
5. If adapter chain case has been pivoted to transport position, remove pivot bolt (A) and swing chain case out to working position. Replace bolt (A).

6. Connect driveline to feeder house output shaft. See Mounting Instruction at back of book.

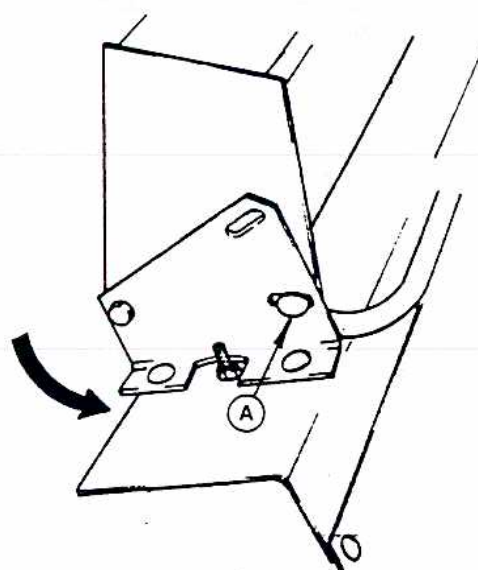
7. Connect three hydraulic lines at combine quick couplers:
  - Reel drive pressure line.
  - Reel lift line.
  - Reel drive return line.

8. Disengage float lock-out by lowering retainers to position (K).

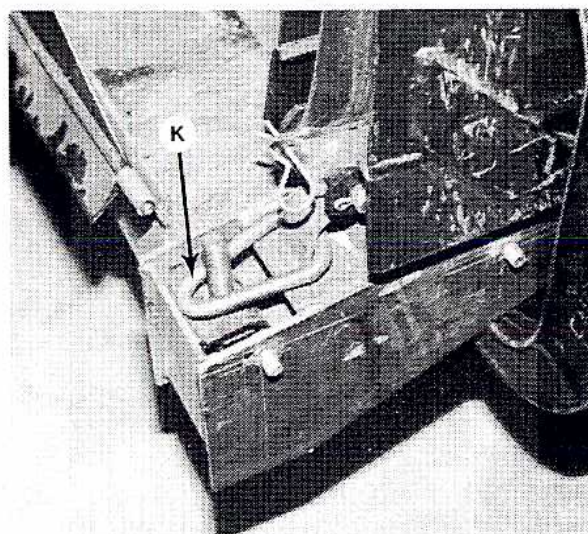
9. Disengage header lift cylinder stops and lower header.



BLOCK GAUGE WHEELS



PIVOT CHAIN CASE TO WORKING POSITION



DISENGAGE FLOAT LOCK-OUT

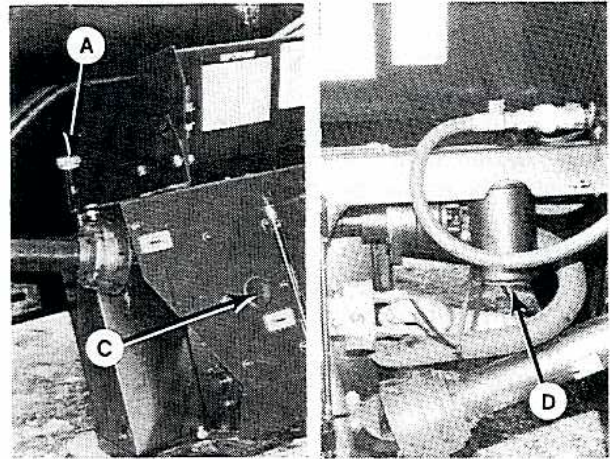


# OPERATION

## BREAK-IN PERIOD

1. Run drapers slowly for 5 minutes to fill hydraulic lines, then check oil level at (A). Maintain level between LOW and FULL.
2. Check tension of drive chain (C) on combine adapter after 10 hours operation and every 50 hours thereafter. See Maintenance/Service section.
3. Change the hydraulic oil filter (D) on combine adapter after 100 hours operation and every 250 hours thereafter.

See "Break-In Period" in Header Operator's Manual for further information on break-in maintenance.

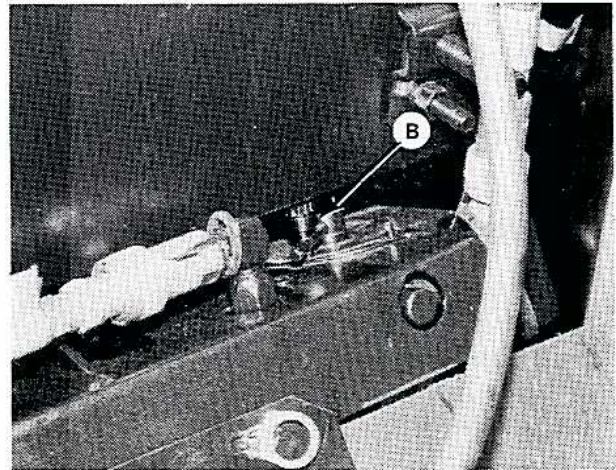


CHECK HYDRAULIC OIL LEVEL  
CHECK DRIVE CHAIN TENSION - 10 HOURS  
CHANGE OIL FILTER - 100 HOURS

## DRAPER SPEED CONTROL

Draper speed is adjusted at the flow control on the combine adapter. Move flow control lever (B) clockwise to increase draper speed and counter-clockwise to decrease. Range is 0 to 800 roller RPM, or 0 to 470 ft./minute (145 m/min.). A mid-range setting (5 to 6 on flow control indicator) is suggested.

**NOTE:** If sufficient draper speed cannot be achieved, a possible cause is low relief pressure. See "Flow Control Relief Pressure" in Maintenance/Service section.



DRAPER SPEED CONTROL - COMBINE

# OPERATION

## HEADER FLOTATION

### IMPORTANT:

To avoid:

- frequent breakage of sickle components
  - scooping soil
  - soil build-up at cutterbar in wet conditions,
- set header float as light as possible without causing excessive bouncing.

Under normal conditions, adjust float spring tension so 50 to 70 lbs. force (220 to 300 N) is required to lift cutterbar off ground at each end.

To adjust header float at combine adapter:

1. Raise header fully.



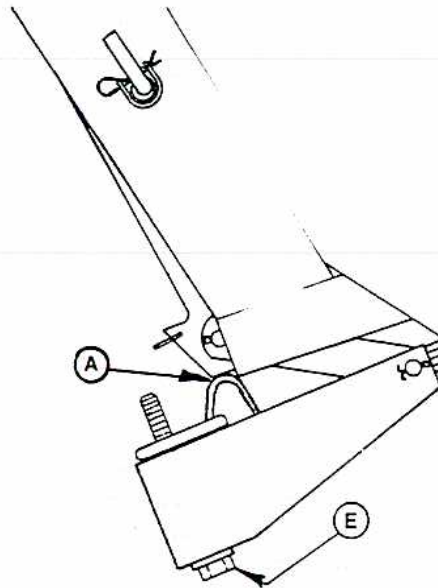
**DANGER:** To avoid bodily injury or death from unexpected start-up or fall of raised header, stop engine, remove key and engage header lift cylinder stops before going under header to adjust float (or for any reason).

2. Turn bolts (E) at each side of adapter clockwise to increase float (which makes header lighter when lowered to ground).

Turn bolts counter-clockwise to decrease float (which makes header heavier when lowered).

**NOTE:** With header raised off the ground, float link should contact stop at (A). A gap between link and stop with header off the ground is an indication that float is set too light.

3. Disengage lift cylinder stops and lower header. Check float at both ends of cutterbar. Force required to lift cutterbar should be approximately the same at both ends.



FLOAT ADJUSTMENT - COMBINE

# OPERATION

## HEADER ANGLE

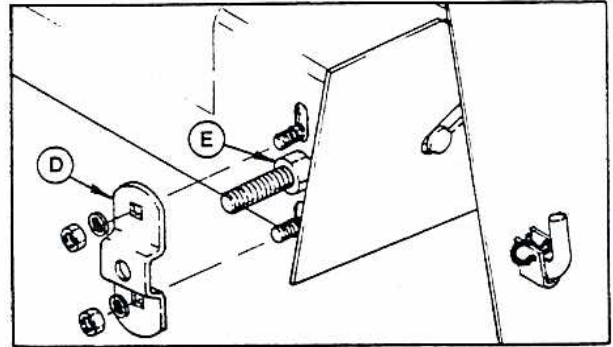
The header (or guard) angle can be set at between 13° and 16° below horizontal. (Actual range may vary with combine set-up.)

See Combine Operator's Manual for header levelling and additional header angle adjustments.

**IMPORTANT:** The flattest header angle (13°) is recommended for normal conditions and is the factory set position. A flatter header angle reduces sickle section breakage and reduces soil scooping or build-up at the cutterbar in wet conditions. Use a steeper angle to cut very close to the ground, or in down crop for better lifting action.

To adjust header angle:

1. Rest header on 6 inch (150 mm) blocks.
2. Remove lock (D), both sides of adapter.
3. Turn nut (E) clockwise to flatten header angle, or counter-clockwise to steepen angle.  
**IMPORTANT:** Adjust both sides to the same position.
4. Replace lock (D).
5. **IMPORTANT:** Header flotation is changed when header angle is changed, and must be readjusted. See "Header Flotation", one page back.



HEADER ANGLE ADJUST. - COMBINE



# MAINTENANCE/SERVICE

## SERVICE PROCEDURES



**CAUTION: To avoid personal injury, before servicing machine or opening drive covers:**

1. Fully lower header and reel. If it is necessary to service in the raised position, first engage header lift cylinder stops and reel props.
2. Disengage header drive clutch.
3. Stop engine and remove key.
4. Engage park brake.
5. Wait for all moving parts to stop.

Park on level surface when possible. Block wheels securely. Follow all recommendations in your Combine Operator's Manual.

Wear close-fitting clothing and cover long hair. Never wear dangling items such as scarves or bracelets.

Wear protective shoes with slip resistant soles, a hard hat, protective glasses or goggles and heavy gloves.

Be prepared if an accident should occur. Know where the first aid kit and fire extinguisher are located and how to use them.

Keep the service area clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.

Use adequate light for the job at hand.

Replace all shields removed or opened for service.

Use only service and repair parts made or approved by the equipment manufacturer. Substituted parts may not meet strength, design or safety requirements.

Keep the machine clean. Never use gasoline, naphtha or any volatile material for cleaning purposes. These materials may be toxic and/or flammable.



# MAINTENANCE/SERVICE

## RECOMMENDED LUBRICANTS

### GREASE

Use an SAE Multi-Purpose High Temperature Grease with Extreme Pressure (EP) Performance and containing at least 1.5% molybdenum disulphide.

Also acceptable is an SAE Multi-Purpose Lithium Base Grease.

### HYDRAULIC OIL

Use SAE 10W30 Class SF or CC engine oil.

### CAPACITIES

Adapter Chain Case - 2000 grams (70 oz.) SAE Multi Purpose Grease

Adapter Hydraulic System (Draper Drive) - 28 litres (7.4 U.S. gals.)

Tank only - 25 litres (6.6 U.S. gals.)

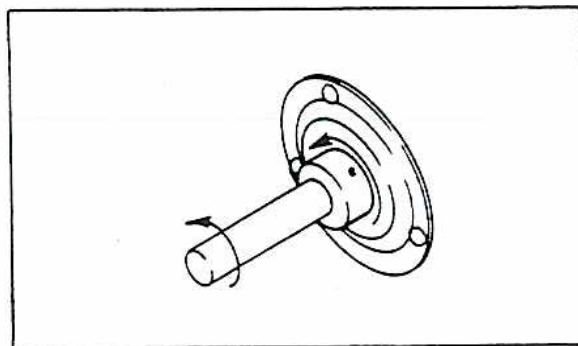
### STORING AND HANDLING LUBRICANTS

Your machine can operate at top efficiency only if clean lubricants are used. Contaminant in lubricants is the most likely cause of bearing and hydraulic system failure. Use clean containers to handle all lubricants. Store lubricants in an area protected from dust, moisture and other contaminants. Keep hydraulic couplers and connectors clean.

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## SEALED BEARING INSTALLATION

1. Clean shaft and coat with rust preventative.
2. Install flangette, bearing, flangette and lock collar. The locking cam is only on one side of the bearing.
3. Install and tighten the flangette bolts.
4. When the shaft is located correctly, lock the lock collar with a punch. The collar should be locked in the same direction the shaft rotates. Tighten the set screw in the collar.
5. Loosen the flangette bolts on the mating bearing one turn and re-tighten. this will allow the bearing to line up.



TIGHTEN COLLAR IN DIRECTION  
SHAFT ROTATES

## MAINTENANCE/SERVICE

### GREASING THE ADAPTER

See "Recommended Lubricants" in this section for recommended greases.

The following greasing points are marked on the adapter by decals showing a grease gun (A), and grease interval (B) in hours of operation. Use the hour meter in the combine cab and the "Maintenance Checklist" provided to keep a record of scheduled maintenance.

Procedure:

1. Wipe grease fitting with a clean cloth before greasing, to avoid injecting dirt and grit.
2. Inject grease through fitting with grease gun until grease overflows fitting.
3. Leave excess grease on fitting to keep out dirt.
4. Replace any loose or broken fittings immediately.
5. If fitting will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

### 10 Hours or Daily

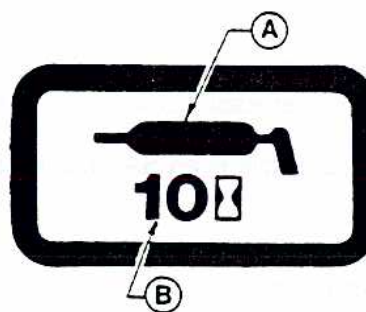


**DANGER:** Stay clear of drivelines until all movement has stopped. Entanglement with rotating driveline will cause serious personal injury or death. Avoid loose fitting or dangling clothing.

1. Chain Case Input Driveline (A) - one or two fittings depending on make of combine.
2. Feeder Draper Driveline (B) - three fittings

**NOTE:** Do not grease slip clutch daily.

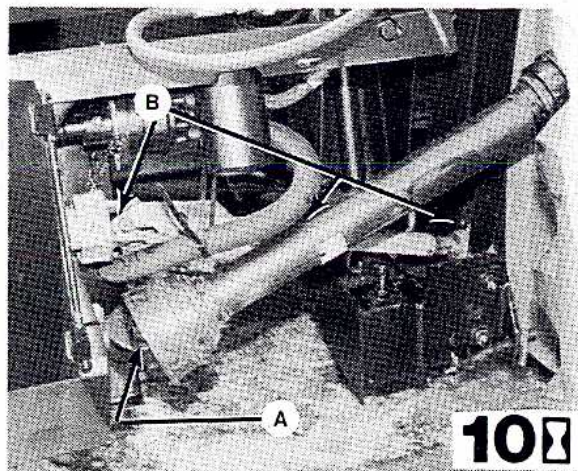
Daily remove packed dirt and chaff from around feeder draper driveline and feeder draper drive roller bearings (both sides of deck).



SAMPLE GREASE DECAL



STAY CLEAR OF ROTATING DRIVELINES



COMBINE ADAPTER DRIVELINES

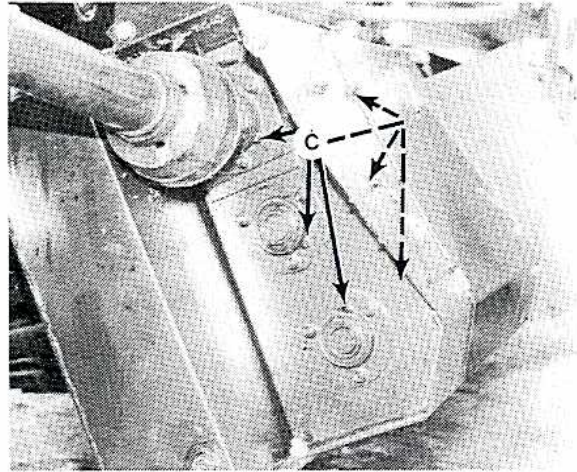


## MAINTENANCE/SERVICE

### GREASING THE ADAPTER (continued)

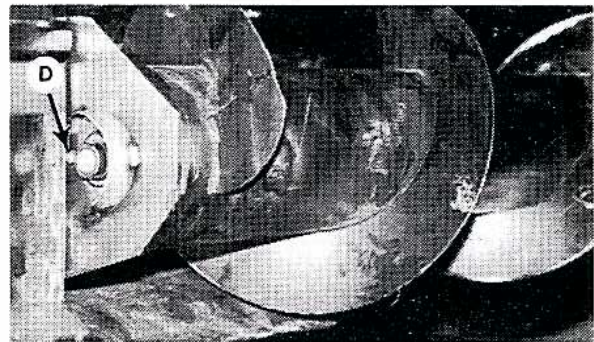
#### 100 Hours or Annually:

1. Chain Case Bearings (C) - six fittings



CHAIN CASE BEARINGS

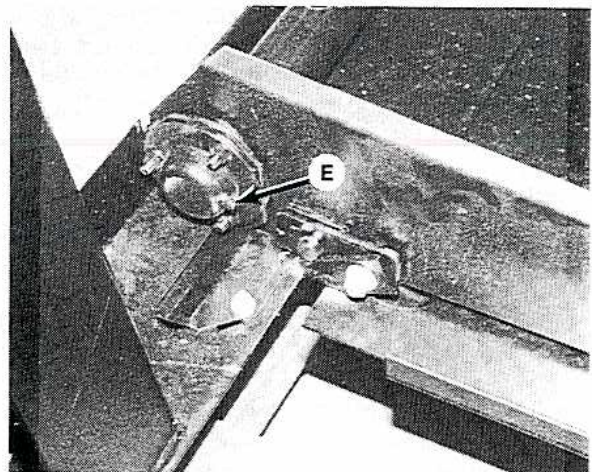
2. Cross Auger Bearing (D) - one fitting



CROSS AUGER BEARING

3. Feeder Draper Drive Roller Bearings (E) - two fittings

**NOTE:** To avoid damage to bearing seal, when greasing drive roller bearings use a single slow stroke of grease gun.



FEEDER DRAPER DRIVE ROLLER BEARING  
(BOTH ENDS)

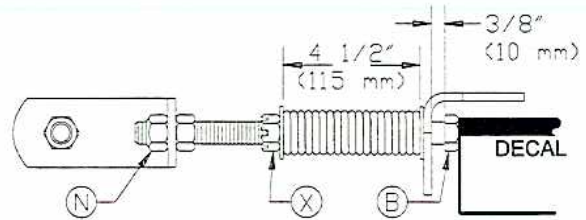
## MAINTENANCE/SERVICE

### FEEDER DRAPER

To adjust draper tension:

**IMPORTANT:** Do not turn nut (X) to adjust draper tension.

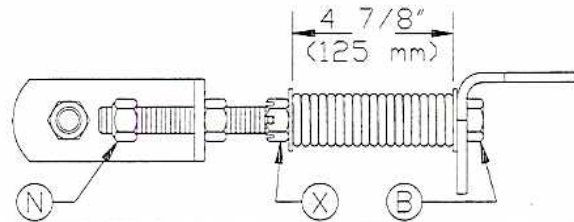
1. Loosen nut (N).
2. Turn bolt (B) counter-clockwise to tighten draper until outside of bolt head lines up with edge of decal. (Dimensions are shown for adapters without decal.)
3. Tighten nut (N).
4. Repeat at other side.



FEEDER DRAPER TENSION

To replace feeder draper tension spring:

1. Remove nut (N).
2. Remove cotter pin and loosen nut (X).
3. While holding nut (X) with a wrench, remove bolt (B).
4. Replace spring and reassemble. Adjust spring length to 4 7/8 in. (125 mm) and lock the position with nut (X) and cotter pin.
5. Adjust tension as above.



REPLACING TENSION SPRING

Change draper roller bearings every 500 hours or annually.

**NOTE:** When tightening locknuts on end of idler roller, torque to 30-45 ft.lbs. (40-60 N·m) only.

### HYDRAULIC SYSTEM

#### Hydraulic Hoses and Lines

Check hydraulic hoses and lines daily for signs of leaks.

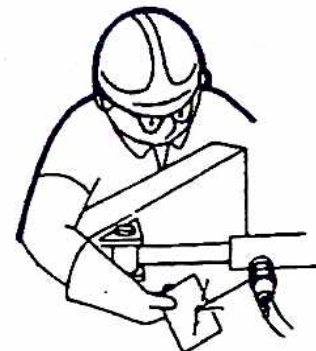
**WARNING:** Avoid high-pressure fluids. Escaping fluid can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic lines. Tighten all connections before applying pressure. Keep hands and body away from pin-holes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. IF ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type of injury or gangrene may result.



AVOID HIGH PRESSURE FLUIDS

#### **IMPORTANT:**

- Ensure all hydraulic couplings are fully engaged before operating header.
- Keep hydraulic coupler tips and connectors clean. Dust, dirt, water and foreign material are the major causes of hydraulic system damage.
- To prevent improper mixing of oils:  
If header is to be switched back and forth from combine to windrower, change oil in windrower tractor (or Bi-Directional Tractor) hydraulic system and in combine adapter hydraulic reservoir to match combine hydraulic system.



CHECK PROPERLY FOR LEAKS



## MAINTENANCE/SERVICE

### HYDRAULIC SYSTEM (continued)

#### Hydraulic Oil Reservoir

The combine adapter's hydraulic oil reservoir provides oil for the draper (and cross auger) drives.

Check oil level daily (before start-up) at dipstick (A) . Maintain level between "LOW" and "FULL" marks.

Tank Capacity - 25 litres (6.6 U.S. gallons),  
3 additional litres (0.8 U.S. gallons) to fill  
filter, hoses, etc.

Type - SAE 10W30 Class SF or CC Engine Oil

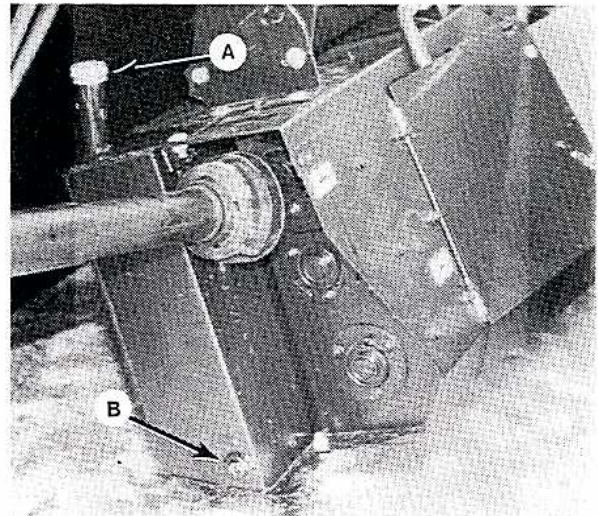
Change hydraulic oil every 600 hours or 3 years.

To drain the reservoir:

1. Remove dipstick cap (A).
2. Remove plug (B).

**NOTE:** A drain pan with a capacity of 30 litres (8 U.S. gallons) will be required.

3. Replace the hydraulic oil filter. See below.
4. Replace plug (B) and fill the reservoir through filler neck.
5. Replace cap (A).



HYDRAULIC OIL RESERVOIR

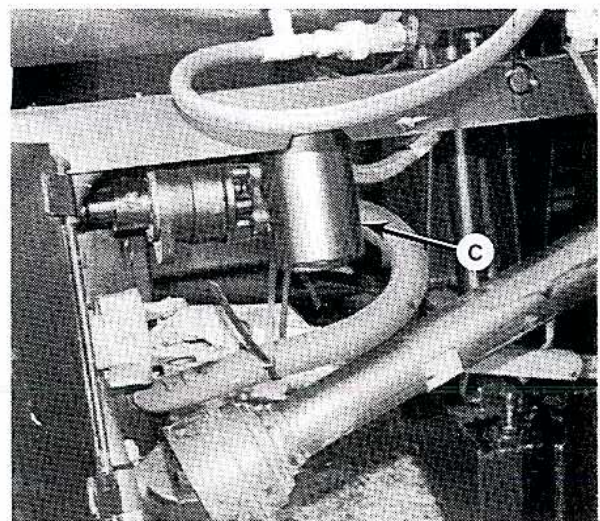
#### Hydraulic Oil Filter

Change hydraulic oil filter (C) after the first 100 hours operation and every 250 hours thereafter.

To change:

1. Clean around the filter head.
2. Remove the filter and clean the gasket surface of the filter head.
3. Apply a thin film of clean oil to the gasket on the new filter.
4. Install the new filter. Turn the filter onto the mount until the gasket contacts the filter head. tighten the filter an additional 1/2 to 3/4 turn by hand.

**IMPORTANT:** Do not use a filter wrench to install the filter. Over-tightening can damage gasket and filter.



OIL FILTER







## MAINTENANCE/SERVICE

### CHAIN CASE

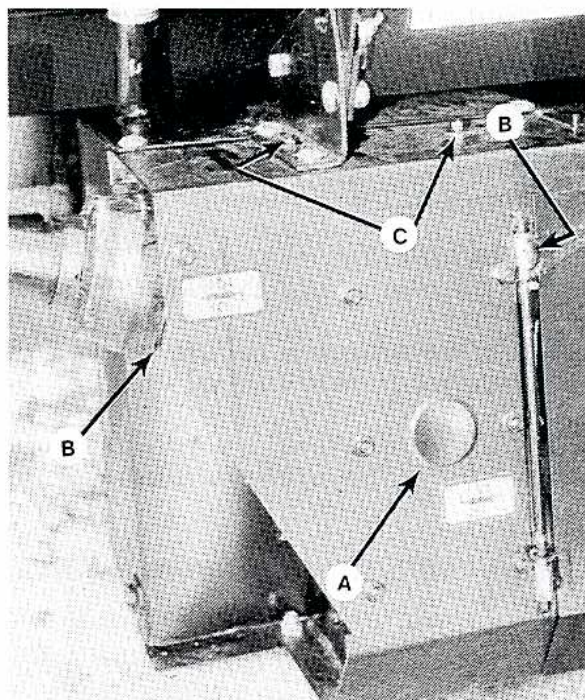
#### Chain Tension

Check chain tension after the first 10 hours operation and every 50 hours thereafter, as follows:

1. Remove rubber plug at (A).
2. Chain should deflect maximum 1 inch (25 mm).
3. If adjustment is required:
  - a. Turn driveline by hand until chain is at its tightest.
  - b. Loosen three bolts at top bearing flanges (B) (three per side).
  - c. Adjust chain tension with bolts (C) to 1/4" (6 mm) deflection.

**IMPORTANT:** To maintain proper chain alignment, turn both bolts (C) the same number of turns when adjusting.

4. Replace plug (A).



CHAIN TENSION & LUBRICATION

#### Chain Lubrication

Check chain lubrication every 100 hours or annually:

1. Remove rubber plug at (A).
2. Chain should be coated with a thin film of grease.
3. If required, add one 400 gram tube (14 oz.) of SAE Multi-Purpose Grease to the chain case. Case capacity is 2000 grams (five tubes).
4. Replace plug (A).

#### Feeder Draper Driveline Slip Clutch

An overhaul kit is available from your dealer for repair of slip clutch (D) on feeder draper driveline.

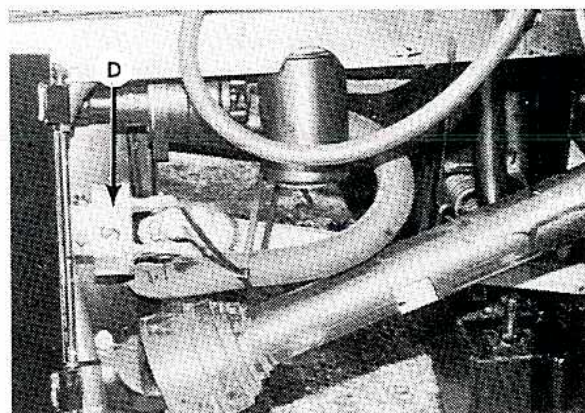
**NOTE:** This repair kit includes:

- 8 cams
- 8 springs
- 1 seal ring

Adjust the torque at which the clutch slips by adding or deleting springs. Add (or remove) springs in sets of two, across from each other. 8 springs should produce the recommended slip torque of 40-55 ft.lbs. (60-74 N·m) in the direction of rotation.

Measure torque after clutch has slipped a minimum of 30 revolutions.

**IMPORTANT:** Damage to feed draper may occur if 55 ft.lbs. (74 N·m) is exceeded.



FEEDER DRAPER DRIVELINE  
SLIP CLUTCH

# MAINTENANCE/SERVICE

## MAINTENANCE SCHEDULE

The following maintenance schedule is a listing of periodic maintenance procedures, organized by service intervals. For detailed instructions, see the specific headings in Maintenance/Service section. Use "Recommended Lubricants" as specified under that heading.

### Service Intervals

The recommended service intervals are in hours of operation. Use the hour meter in the combine to indicate when the next service interval has been reached.

**IMPORTANT:** Recommended intervals are for average conditions. Service the adapter more often if operated under adverse conditions (severe dust, extra heavy loads, etc.).

Regular maintenance is the best insurance against early wear and untimely breakdowns. Following this schedule will increase machine life.

Where a service interval is given in more than one time frame, eg. "100 hours or Annually", service the machine at whichever interval is reached first.



**CAUTION:** Carefully follow safety messages given under "Service Procedures".

AT FIRST USE: See "Break-In Period" in Operation section.

---

### **10 HOURS OR DAILY**

1. Grease chain case input driveline
  2. Grease feeder draper driveline
  3. Check hydraulic hoses, lines and components for leaks
  4. Check hydraulic oil level at reservoir
- 

### **50 HOURS**

1. Check chain tension at chain case
- 

### **100 HOURS OR ANNUALLY \***

1. Grease chain case bearings
  2. Grease cross auger bearing
  3. Grease feeder draper drive roller bearings
  4. Lubricate chain at chain case
- \* It is recommended that Annual Maintenance be done prior to start of operating season.
- 

### **250 HOURS**

1. Change hydraulic oil filter
- 

### **500 HOURS OR ANNUALLY**

1. Change draper roller bearings.
- 

### **600 HOURS OR 3 YEARS**

1. Change hydraulic oil in reservoir



# MAINTENANCE RECORD

Adapter Serial No. \_\_\_\_\_

Combine this record with the record in the Harvest Header Operator's Manual.  
See Maintenance/Service section for details on each procedure. Copy this page to continue record.

ACTION:	✓ - Check	● - Lubricate	▲ - Change																	
Hour Meter Reading /																				
Maintenance Procedure	Serviced By:																			
BREAK-IN		See "Break-In Period" in Operation section for checklist.																		
<b>10 HOURS or DAILY</b>																				
●	Chain Case Input Driveline																			
●	Feeder Draper Driveline																			
✓	Hydraulic Hoses and Lines																			
✓	Hydraulic Oil Level																			
<b>50 HOURS</b>																				
✓	Adapter Chain Tension																			
<b>100 HOURS OR ANNUALLY</b>																				
●	Chain Case Bearings																			
●	Cross Auger Bearing																			
●	Feed Draper Drive Roller Brgs																			
●	Adapter Chain																			
<b>250 HOURS</b>																				
▲	Hydraulic Oil Filter																			
<b>500 HOURS OR ANNUALLY</b>																				
▲	Draper Roller Bearings																			
<b>600 HOURS OR 3 YEARS</b>																				
▲	Hydraulic Oil																			

## TROUBLESHOOTING

<u>SYMPTOM</u>	<u>PROBLEM</u>	<u>SOLUTION</u>	<u>REF.</u>
<b>HYDRAULICS</b>			
Insufficient draper speed.	Speed control set too low.	Increase control setting.	11
	Relief pressure too low.	Increase relief pressure to 2000 psi.	20
<b>FEEDING</b>			
Cross auger back-feeds.	Side drapers running too fast, piling material in center of feeder draper.	Reduce draper speed.	11
	Cross auger improperly positioned.	Position auger to clear backsheet extensions by 1/2 inch (13 mm).	27
	Front drum of feeder housing improperly positioned.	Move front drum forward and down.	*
	Build-up of material in corners due to slow draper speed.	Increase draper speed	11
	Dust shield on front of feeder house.	Remove dust shield	*
	Delivery opening panels on header do not align with feeder house opening.	Install proper panels.	27
	<u>John Deere</u> : Feeder chain running too slow.	Run feeder chain at high speed.	*
	<u>John Deere</u> : Equipped with feeder chain with 4 pitches per bar.	Replace with 6 pitch per bar feeder chain, or remove every other bar.	*
	<u>Case IH</u> : Stone retarding drum installed.	Install standard drum or fill slots in stone retard. drum.	**
	<u>NH-TR</u> : Stone ejection roll set too low.	Adjust roll position.	*
Cross auger too high above feeder draper.	When cutting low, gauge wheel springs raise header with respect to feeder draper.	Remove one spring at each gauge wheel support. (Move remaining spring to center notch on clevis.)	***

\* See your Combine Operator's Manual

\*\* See your Combine Dealer

\*\*\* See your Header Operator's Manual



## TROUBLESHOOTING

<u>SYMPTOM</u>	<u>PROBLEM</u>	<u>SOLUTION</u>	<u>REF.</u>
<b>FEEDING (continued)</b>			
Cross auger blocks flow of bulky crop.	Header angle too flat.	Steepen header angle.	12
	Reel too far back.	Move reel forward on support arms.	***
	Cross auger too far forward.	Move auger back.	27
Side drapers back-feed.	Side drapers running too slow in heavy crop.	Increase draper speed.	11
	Side drapers improperly set with respect to feed draper.	Center side draper idler rollers over feed draper side deflectors.	26
Crop is thrown across opening and under opposite side draper.	Side drapers running too fast in light crop.	Reduce draper speed.	11
	Excessive overlap of feeder draper.	Align side drapers with feeder house opening.	26
<b>FLOTATION</b>			
Combine feeder housing pushes dirt when trying to pick up down crop.	Feeder housing lowered too far, eliminating header float.	Raise feeder housing until float linkage bottoms, change header to steeper angle to pick up down crop.	13
	Float too light, float links do not rest on stops.	Adjust to heavier float.	12
Cutterbar does not float or pushes dirt.	Float set too heavy.	Adjust to lighter float.	12
	Float lock-out not disengaged.	Raise header, disengage float lock-out.	6

\*\*\* See your Header Operator's Manual.

# ASSEMBLY

## Preparing for Combine Use

**IMPORTANT:** To prevent damage to the combine and/or header hydraulic system:

If combine adapter serial number 81800 or higher is to be used with header serial number 77400 or lower, the conveyor hydraulics on the header must be modified with the following parts:

<u>Header Size</u>	<u>Case Drain Kit #</u>	<u>Hydraulic Line</u>
25'	B 2369	37828
30'	B 2369	37829
36'	B 2369	-----

## INSTALL HEADER SIDE DRAPERS

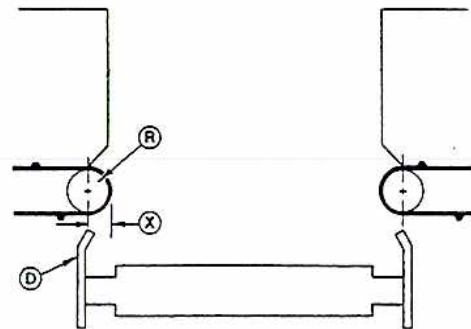
1. Connect side drapers. See the Adapter Mounting Instructions for your make of combine at the back of this book.

See "Delivery Opening Width" in Header Operator's Manual for idler roller position adjustment procedure.

**IMPORTANT:** Cut off any excess flap only after drapers have been connected and tensioned and overlap at sides of feed draper deck has been checked (Step 2).

2. When properly installed, the header side draper idler rollers (R) should be centered over the feed draper side deflectors (D) as shown. To check this, place a square on draper and measure dimension (X). It should be between 1 and 2 1/2 inches (25 to 64 mm), both sides.

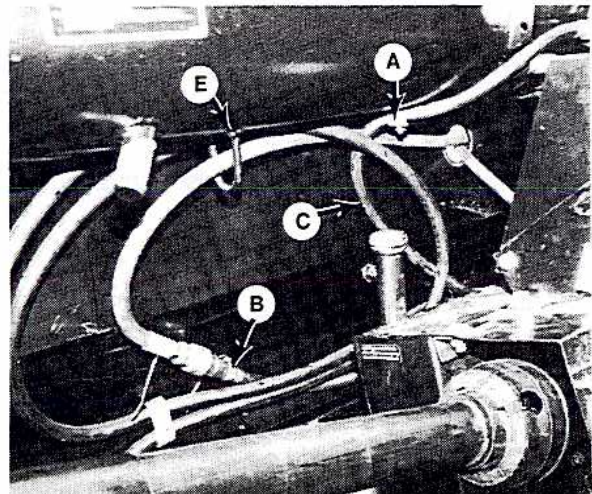
**NOTE:** This is the setting for standing grain. For rice, set dimension (X) to between 3 and 4 inches (75 to 100 mm).



DELIVERY OPENING

## RE-ROUTE HEADER SIDE DRAPER HOSES: 962 HEADERS ONLY

1. Loosen hose clamp (A) and remove hose (B) (with female coupler) from clamp. Position hose (C) (with male coupler) in clamp as shown. Tighten clamp (A).
2. For hose storage, pass hose (B) behind hoses routed along header back sheet as shown. Route hose from cross auger with male coupler through loop (E) and connect to hose (B).



RE-ROUTE DRAPER HOSES: 962 HEADER



# ASSEMBLY

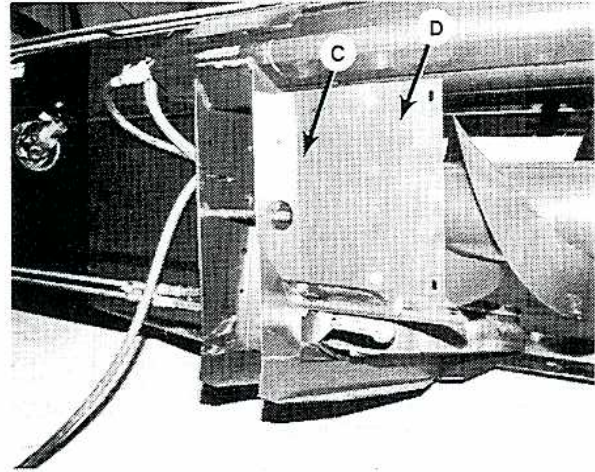
## Preparing for Combine Use

### INSTALL DELIVERY OPENING PANELS (shipped with combine adapter)

Install panels (C) both sides of delivery opening with 3/8 x 3/4 carriage bolts and nuts (2 per panel).

**NOTE:** The purpose of the panels is to align header opening with the opening in combine feeder. For the following models, to achieve this it will be necessary to remove panel extensions from their storage position on panels (C) and reinstall in position (D) to provide narrower opening:

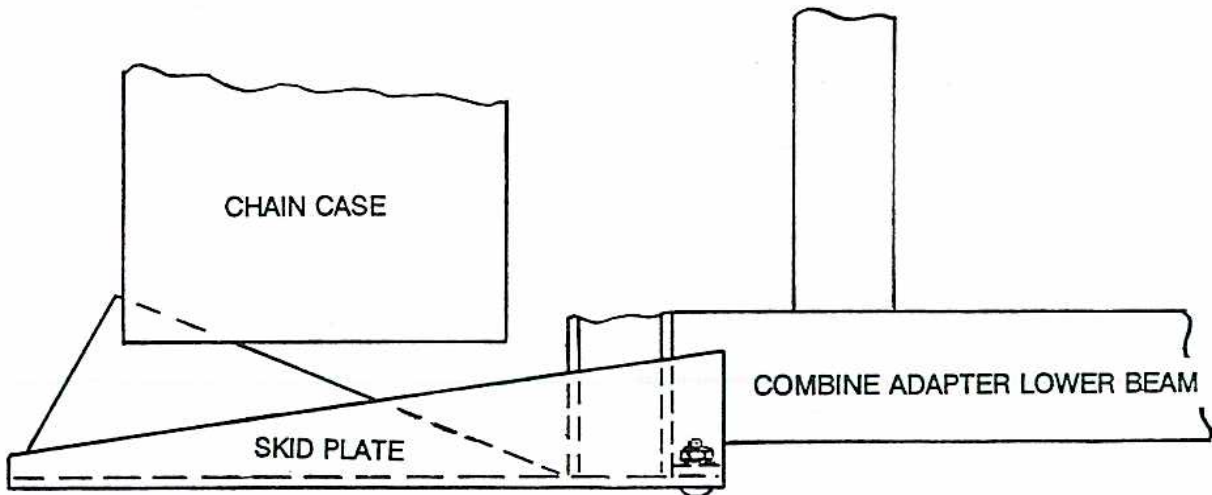
John Deere 9500 , 7720 and CTS  
Case IH 1460 and 1660  
Massey 860, 8570, and 8450  
Ford New Holland TR  
Claas 96 and 98



INSTALL DELIVERY OPENING PANELS

### INSTALL TERRACE SKID PLATE (Rice Special Headers)

Mount skid under chain case on the left hand side of the adapter with the hardware supplied.



REAR VIEW

TERRACE SKID PLATE

# ASSEMBLY

## Preparing for Combine Use

### INSTALL CROSS AUGER

1. Install lower mounting bolts for cross auger in left and right header legs.

Left leg: (1) 1/2 x 1" hex head bolt  
(1) 3/16" thick flat washer  
(2) 1/2" lock washers  
Tighten bolt.

Right leg: (1) 1/2 x 1" hex head bolt  
(1) 1/2" lock washer  
Leave bolt a few turns loose.

2. Position auger in delivery opening and engage open-ended slots in auger supports on lower mounting bolts.

**NOTE:** When completely installed, auger flighting should clear delivery opening panels by 1/2 inch (13 mm). See illustration (lower right) for proper slot in auger support to achieve this clearance. For most rearward position (Case, Gleaner, etc.) it may be necessary to loosen and reposition hoses to auger motor.

3. Route hoses from auger motor through hole in back panel.

4. Swing auger supports into place and install top mounting bolts.

Left leg: same hardware as above.

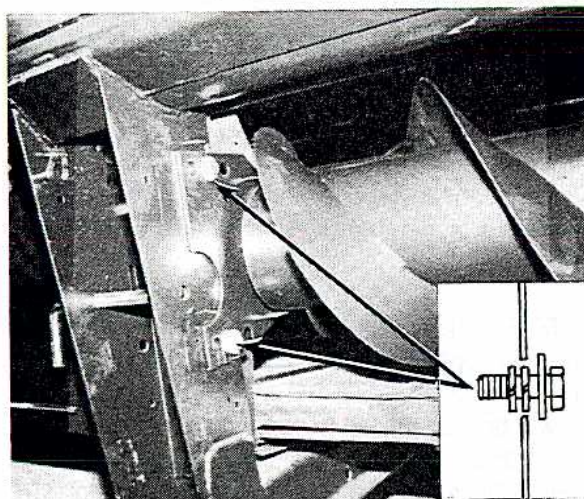
Right leg: same hardware as above.

Use the hole which corresponds to the slot used at the bottom.

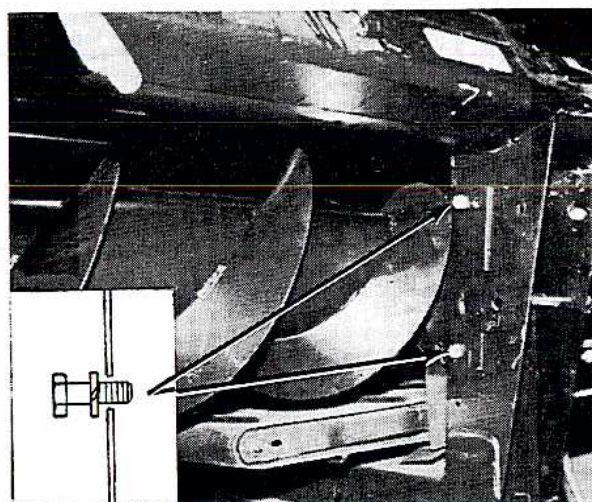
5. Tighten both top bolts and R/H lower bolt.

**IMPORTANT:** Left auger support is not clamped tightly to header leg (even when hardware is tight). This prevents a thrust load which could damage auger motor bearings. If left auger support is bearing on either of the 3/16" thick flat washers on the mounting bolts, a thrust load is indicated. If this is the case, install additional lock washers until there is a gap between the support and flat washer.

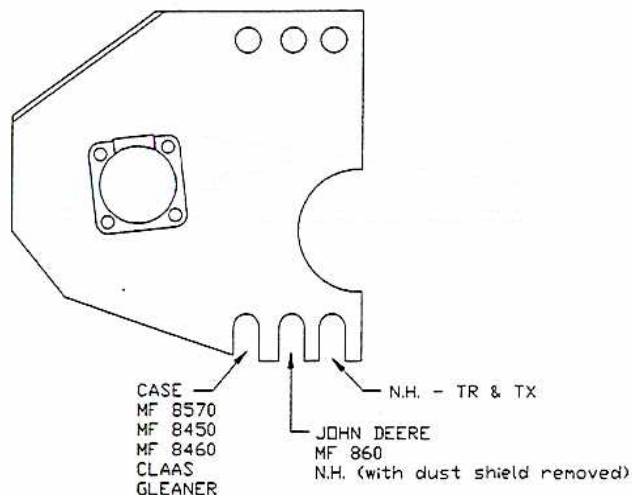
6. Connect auger hose male coupler to female coupler at left header leg (orange to orange). Blue coupler (from header) and red coupler (from auger) will be connected to combine adapter, but can be coupled for storage.



CROSS AUGER INSTALLATION - LEFT SIDE  
(PANELS REMOVED FOR PHOTO CLARITY)



CROSS AUGER INSTALLATION - RIGHT SIDE  
(PANELS REMOVED FOR PHOTO CLARITY)



CHOOSE APPROPRIATE SLOT

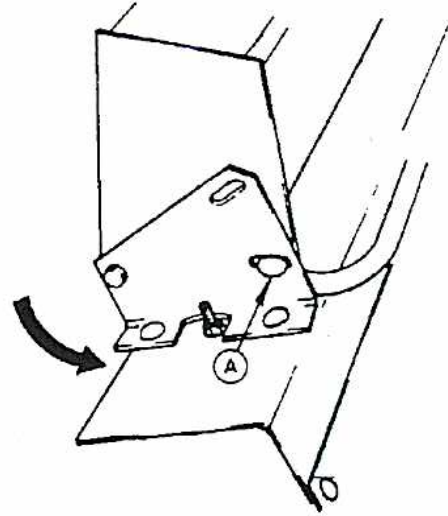


## ASSEMBLY

### Preparing for Combine Use

#### POSITION CHAIN CASE ON COMBINE ADAPTER

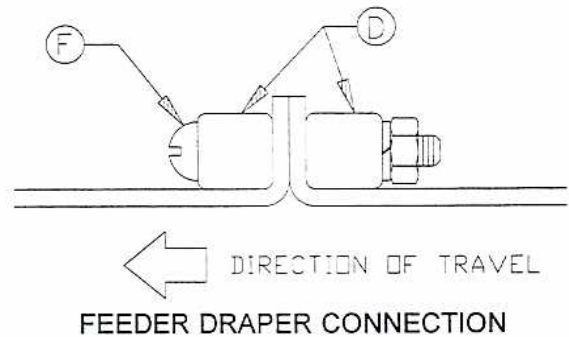
1. Remove pivot bolt (A) and swing chain case out to working position. Replace bolt (A).



PIVOT CHAIN CASE TO WORKING POSITION

#### INSTALL FEEDER DRAPER ON COMBINE ADAPTER

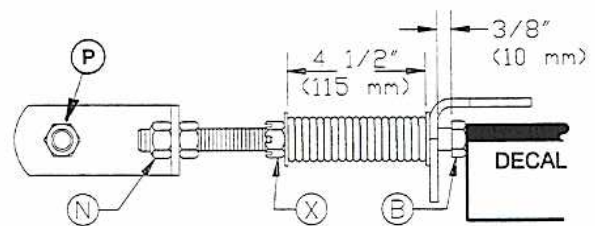
1. Slide feeder draper in from rear of adapter, ensuring belt on underside seats properly on left side of both rollers.
2. Position connector slats (D) as shown. Install screws (F) with heads leading in direction of travel.



3. Apply draper tension as follows:

**IMPORTANT:** Do not turn nut (X) to adjust draper tension.

- a. Loosen nut (N).
- b. Turn bolt (B) counter-clockwise to tighten draper until outside of bolt head lines up with edge of decal. (Dimensions are shown for adapters without decal.)
- c. Tighten nut (N).
- d. Repeat at other side.



FEEDER DRAPER TENSION

**NOTE:** If idler roller does not slide freely, loosen nut (P).

# ASSEMBLY

## Preparing for Combine Use

### ATTACH ELECTRICAL HARNESS

Attach electrical harness extension, (shipped with adapter) to your combine wiring harness. This allows connection to header harness for operation of amber lights on header.

Dark Blue Wire: to L/H turn signal circuit

Light Blue Wire: to R/H turn signal circuit

Black Wire: to Ground

**NOTE:** If combine will be used with Triple Delivery Header for end delivery windrowing, order B-2407 Harness and Support for deck shift switch. Installation instructions are included with the package. The deck shift switch is supplied with the Triple Delivery Header.

### ATTACH ADAPTER TO COMBINE

**IMPORTANT:** For proper feeding:

1. Move combine feeder drum down and forward.
2. Remove feeder house dust shields if adapter feed deck is wider than feeder house opening.

Attach combine adapter to feeder housing of combine. See Mounting Instructions for your particular make of combine on the following pages:

John Deere - page 31

Claas & MF 8450/8460 - page 45

Case IH - page 35

MF 860 - page 48

Gleaner & White - page 38

MF 8570 Adapter Modification - page 51

New Holland - page 41

MF 8570 Adapter Mounting - page 55

### ATTACH HEADER



**CAUTION:** Read the Operator's Manuals carefully to familiarize yourself with procedures and controls before attaching header to combine.

**NOTE:** Hydraulic hose lengths and couplings are provided based on the latest available information from combine manufacturers. Should these not be suitable for a particular model or production series, modify or purchase the necessary components.

See page 6 for "Attaching Header to Combine".

See Harvest Header Operator's Manual for assembly instructions not related to the adapter.

### ADJUSTMENTS & CHECKS

1. Be sure header delivery opening is adjusted to align with combine feeder house opening width.
2. Check that rear of feeder deck moves up and down freely.
3. Run drapers slowly for 5 minutes to fill hydraulic lines, then check oil level at adapter reservoir.

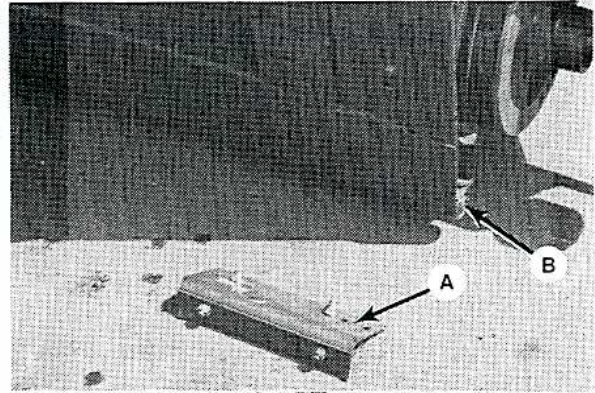
Perform final adjustments and checks as listed on the "Pre-Delivery Checklist" (yellow insert) in the Header Operator's Manual to ensure the machine is field-ready. Use the Operator's Manual for directions.



# Adapter Mounting Instructions for John Deere Combines

## PREPARING THE COMBINE

1. For 7720, 9500 and CTS combines, check with Combine dealer to ensure combine is equipped with tire size, rear ballast etc. to carry larger headers.
2. Remove dust shield and optional feeder house closure strips (A) if installed.
3. Lock pin (B) both sides must be in retracted position before attaching adapter.
4. If combine is equipped with variable speed header drive, set header drive speed to 520 RPM.



REMOVE FEEDER HOUSE CLOSURE STRIPS

## ATTACHING ADAPTER TO COMBINE

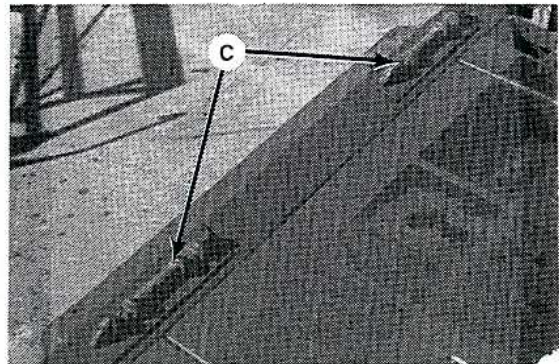
1. Slowly drive combine up to adapter until lift lugs (C) are directly under lift pockets in adapter top cross member.

**NOTE:** Shims can be added or removed under lift lugs (C) to level header.

2. Raise feeder house to lift adapter, ensuring lift lugs are properly engaged. Raise adapter fully.

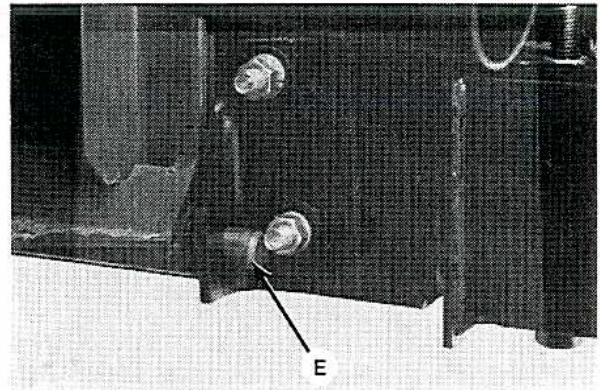


**WARNING:** To avoid bodily injury or death from unexpected start-up or fall of raised attachment; stop engine, remove key and engage lift cylinder stop before proceeding with hook-up.



ALIGN LIFT LUGS UNDER ADAPTER FRAME

3. Engage lock pins (E) in adapter brackets, both sides.



ENGAGE LOCK PINS - BOTH SIDES



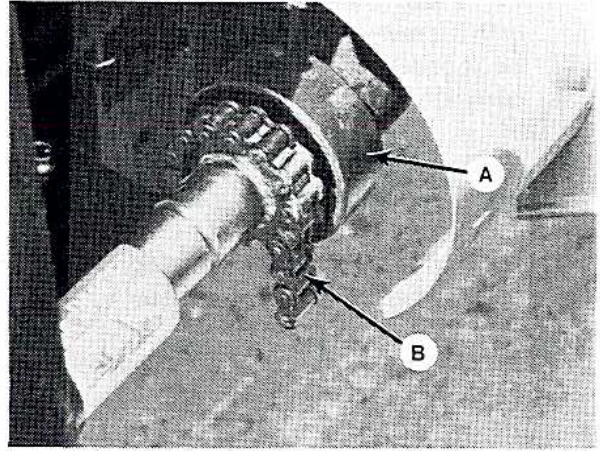
# Adapter Mounting Instructions for John Deere Combines

## ATTACHING ADAPTER TO COMBINE (continued)

4. Attach driveline to feeder house output drive:

### 7720, 9500 & CTS

- Push shield (A) back to retracted position.
- Install chain (B) on both sprockets.
- Pull shield (A) forward to secure the chain in position.



7720, 9500 & CTS  
ATTACH DRIVELINE

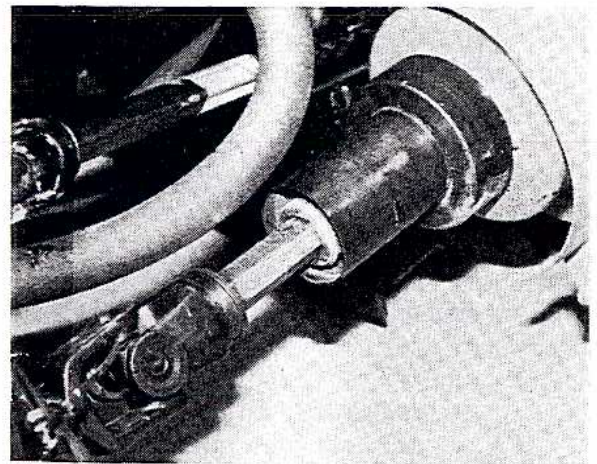
### 8820 & 9600

- Remove snap ring and sprocket from adapter driveline.
- Attach telescoping coupler provided with feeder house.
- Install chain and secure with shield as above.

**NOTE:** For 8820 and 9600 combines with wide feeder house, rubber shield attached to adapter cover may be removed.

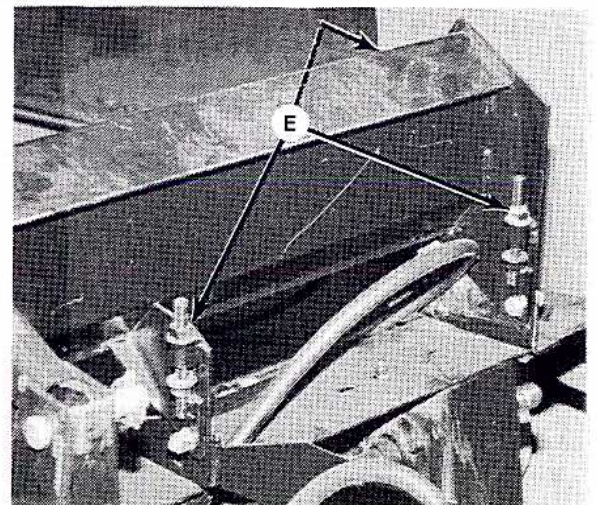


**DANGER:** Entanglement with rotating driveline will cause serious personal injury or death. Close adapter cover and keep all shields in place.



8820 & 9600  
ATTACH DRIVELINE

5. Adjust chain case height with three drawbolts (E) to level the driveline.



ADJUST CHAIN CASE TO LEVEL DRIVELINE



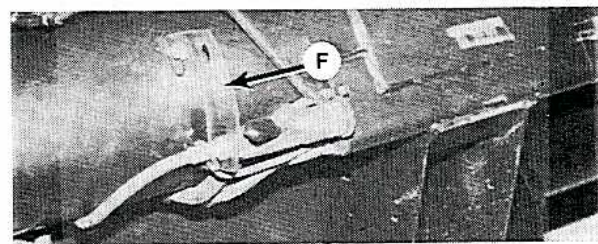
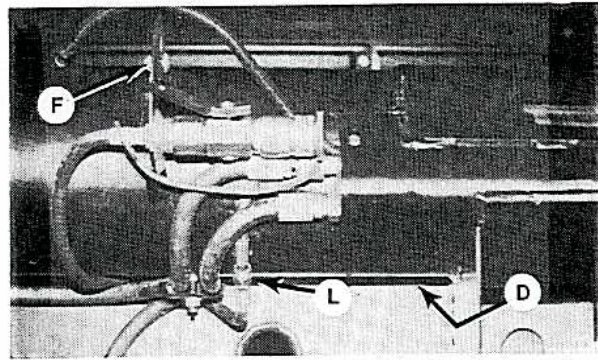
# Adapter Mounting Instructions for John Deere Combines

## PREPARING THE HEADER

1. Attach reel lift hose (from adapter kit) to header hose (L) at left of delivery opening. Route reel lift hose behind reel drive hoses as shown.

**NOTE:** 36' header is shown. For 21', 25' & 30' headers the reel lift hose connects to hydraulic line at (D).

Mount reel lift coupler support (F) to bracket on header frame tube with 3/8 NC x 3/4 carriage bolts and flange nuts as shown.



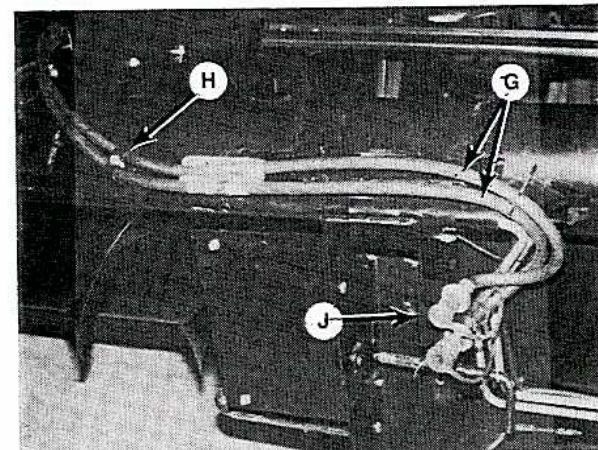
INSTALL REEL LIFT HOSE

2. 36' Header (with Ser. No. 108199 and below) on 9600 Combine only: Install hose extensions (and hose holder) from adapter package to reel drive pressure and return hoses as follows:

- a. Remove reel drive coupler support from frame tube.
- b. Detach couplers from reel drive pressure and return hoses.

**NOTE:** Male coupler is on reel drive pressure line. Label hoses so couplers are not switched when extensions are installed.

- c. Attach hose extensions (G) to reel drive pressure and return hoses and route along frame tube to R/H header leg. Install hose holder (H).
- d. Attach reel drive coupler support (J) at side of header R/H leg. Be sure male coupler is on reel drive pressure line. See step 2 b.

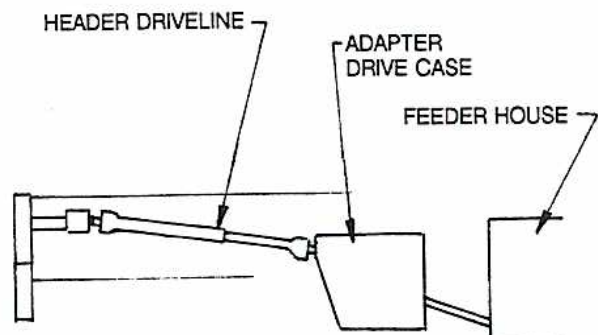


INSTALL REEL DRIVE HOSE EXTENSIONS  
36' HEADER ON 9600 COMBINE ONLY

3. 21 ft. Header Only: Shorten header driveline before attaching to the combine adapter.

To shorten:

- a. Separate the driveline.
- b. Male Shaft Half: Cut plastic shield tube at 590 mm (23-1/4") from center of cross and bearing. Cut steel shaft at 600 mm (23-5/8") from center of cross and bearing.
- c. Female Tube Half: Replace with shorter driveline half, Part No. 40495, available from your MacDon dealer.
- d. Join the driveline. Collapsed length (center of cross to center of cross) should be 650 mm (25-21/32").
- e. Cut hole in plastic shield to expose grease fitting.

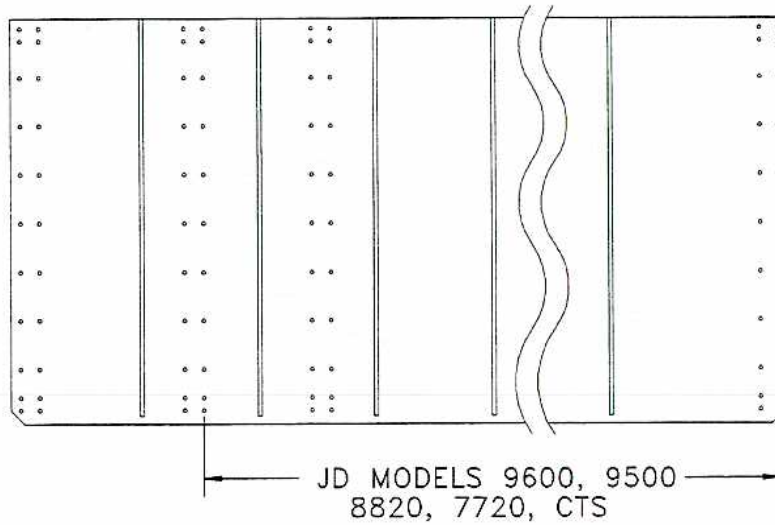


MODIFY HEADER DRIVELINE -21' ONLY

# Adapter Mounting Instructions for John Deere Combines

## PREPARING THE HEADER (continued)

4. Connect header side drapers as shown in the illustration below. Trim front corners at 45° as described in 960 Header Operator's Manual, Unloading & Assembly section.



**SIDE DRAPER CONNECTION**



# Adapter Mounting Instructions for Case IH Combines

## PREPARING THE COMBINE

1. For 1460, 1660 and 1480 combines, check with Combine dealer to ensure combine is equipped with tire size, rear ballast etc. to carry larger headers.
2. For 36 foot header, install optional third feeder house lift cylinder. Order numbers:  
Feeder House Lift Cylinder Kit: Kind - 172, Code - 1092  
Accumulator Kit: Kind - 172, Code - 1084
3. Remove rubber dust shield in front of feeder housing.
4. Set feeder house face plate to mid-position.

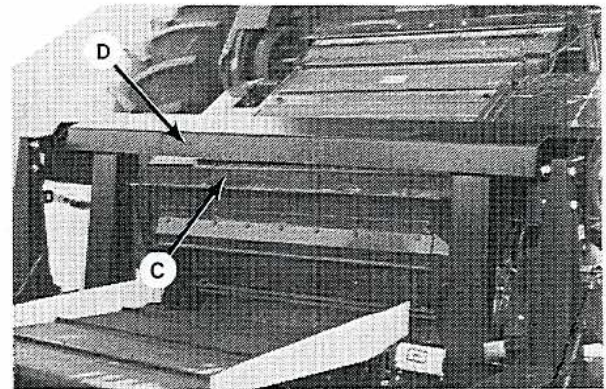
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## ATTACHING ADAPTER TO COMBINE

1. Slowly drive combine up to adapter until feeder saddle (C) is directly under adapter top cross member (D).
2. Raise feeder house to lift adapter, ensuring feeder saddle is properly engaged in adapter frame. Raise adapter fully.

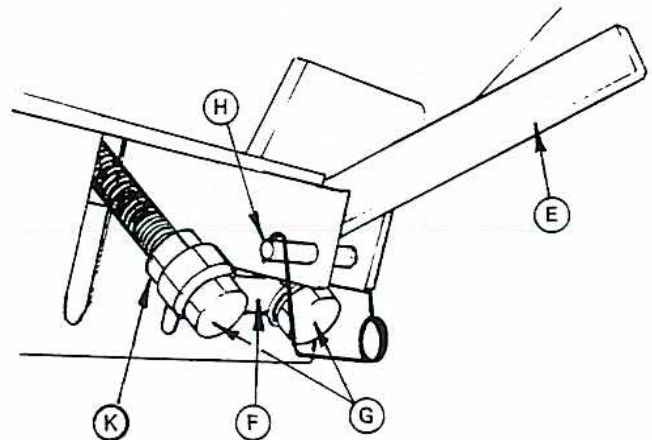


**WARNING:** To avoid bodily injury or death from unexpected start-up or fall of raised attachment; stop engine, remove key and engage lift cylinder stop before proceeding with hook-up.



ALIGN FEEDER SADDLE UNDER  
ADAPTER FRAME

3. Lower latch handle (E) (one each side of feeder house) to hook pivot bar (F). Lift handle to over-center position to lock. It should take 40 to 50 lbs. force (180 to 220 N) to move handle over-center. Adjusting the torque of bolts (G) will vary the handle force required. When handle force is correct, tighten jam nuts (K).
4. Install pin (H) as shown to secure the latch handle in locked position.



ENGAGE LOCKS - BOTH SIDES

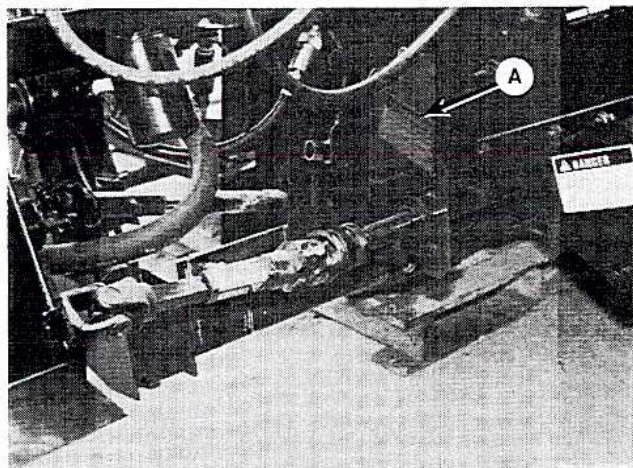
## Adapter Mounting Instructions for Case IH Combines

### ATTACHING ADAPTER TO COMBINE (continued)

5. Remove driveline from storage bolt and attach to feeder house output shaft:
  - a. Pull back spring-loaded collar on driveline yoke and slide yoke onto shaft.
  - b. Release collar, ensuring yoke locks in position on shaft.

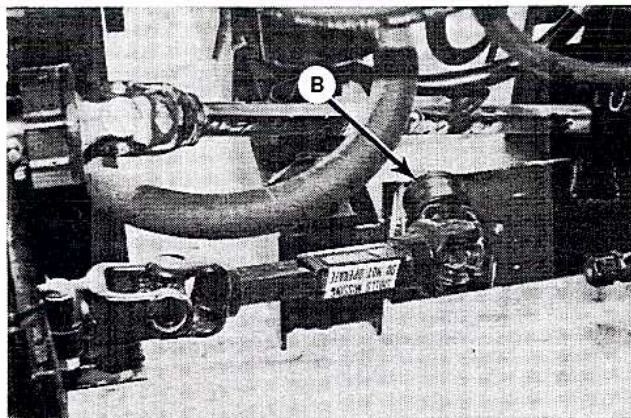


**DANGER:** Entanglement with rotating driveline will cause serious personal injury or death. Replace shield (A) over driveline and close adapter cover.



ATTACH DRIVELINE

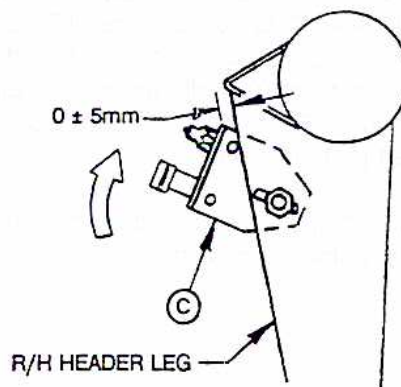
**NOTE:** For driveline storage, align cross as shown, pull back spring-loaded collar and store on bolt (B).



DRIVELINE STORAGE

### PREPARING THE HEADER

1. 21, 25 & 30 ft. Headers: Reposition the reel drive couplers mounting plate (C) by rotating it up to align upper corner of plate with rear edge of R/H header leg within 5 mm (3/16").



REPOSITION COUPLER MOUNTING PLATE  
21', 25' & 30' HEADERS



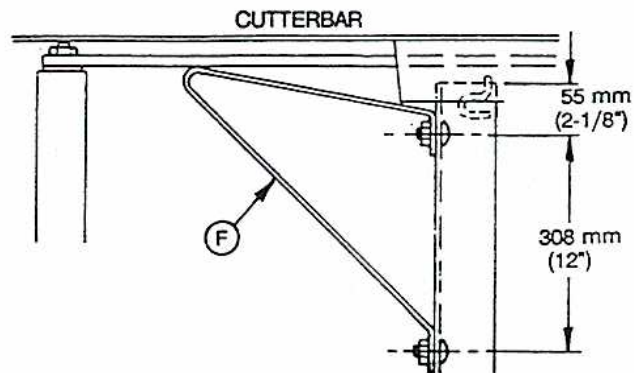
## Adapter Mounting Instructions for Case IH Combines

### PREPARING THE HEADER (continued)

- Attach idler bar supports (F) to left and right header decks with 3/8 x 3/4 carriage bolts and nuts as shown.

**NOTE:** If holes are not provided in deck support angle, drill 3/8 diameter holes at dimensions shown. If holes are field drilled, reverse hardware so square of carriage bolt is properly seated.

Position the support to keep idler bar parallel to, but not touching cutterbar.

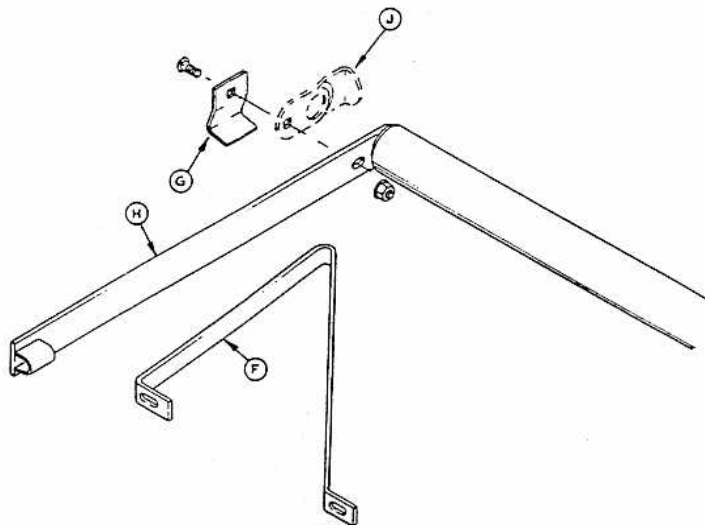


ATTACH IDLER BAR SUPPORTS  
TO HEADER DECKS (R/H SHOWN)

- Attach support (G) to left and right idler bar (H) (at front of long deck idler rollers) using 3/8 x 1 inch carriage bolt and nut as shown.

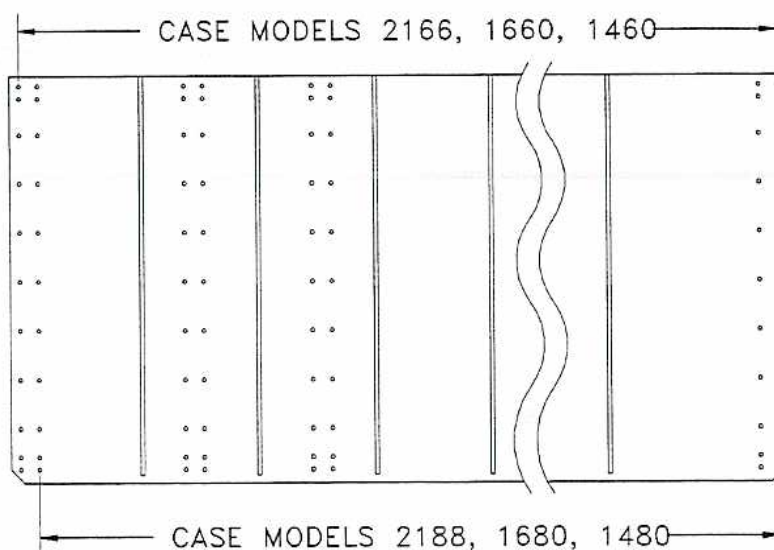
**NOTE:** For Triple Delivery Headers, install support (G) after deck stop (J).

These supports prevent the idler roller from lowering, which can cause draper damage.



ATTACH SUPPORTS TO IDLER BARS  
(L/H SHOWN)

- Connect header side drapers as shown in the illustration below. Trim front corners at 45° as described in 960 Header Operator's Manual, Unloading & Assembly section.



SIDE DRAPER CONNECTION

# Adapter Mounting Instructions for Gleaner & White Combines

## PREPARING THE COMBINE

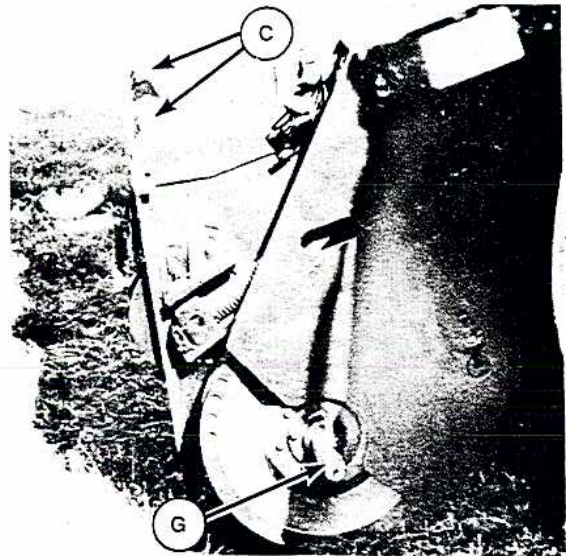
1. For R6, R60, and N6 combines, check with Combine dealer to ensure combine is equipped with tire size, rear ballast etc. to carry larger headers.
2. Rotate feeder house latches back into the feeder house.
3. Set feeder house face plate to mid-position.

## ATTACHING ADAPTER TO COMBINE

1. Slowly drive combine up to adapter until feeder housing truss hooks (C) are directly under adapter top cross member.
2. Raise feeder house to lift adapter, ensuring truss hooks are properly engaged in adapter frame. Raise adapter fully, allowing the lower pins to penetrate the holes in the adapter back.

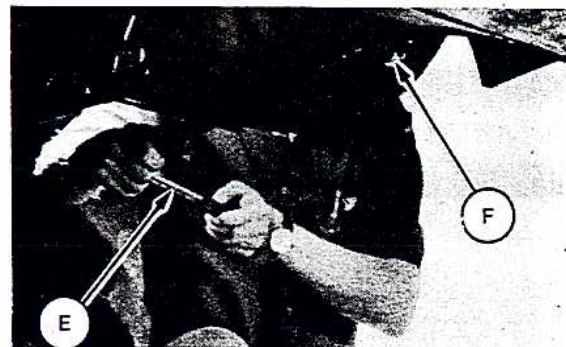


**WARNING:** To avoid bodily injury or death from unexpected start-up or fall of raised attachment; stop engine, remove key and engage lift cylinder stop before proceeding with hook-up.



ALIGN TRUSS HOOKS  
UNDER ADAPTER FRAME

3. Insert concave door tool (E) in the latch socket (F) and rotate the latch clockwise to lock the hooks into the adapter frame (both sides). **MAKE CERTAIN** that the latch is rotated over-center to securely lock the hooks. If it does not latch, check to determine if the lower pins are seated in the adapter back. If not, place a block under the left end of the header and lower the header to reset the pins. Relatch the hooks.



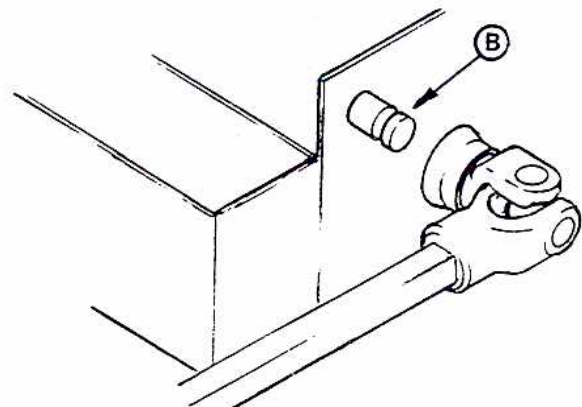
LOCK HOOKS INTO ADAPTER FRAME  
BOTH SIDES

4. Raise the adapter and lower it against the ground a few times to settle the adapter on the feeder housing.
5. Remove driveline from storage pin and attach to feeder house output shaft:
  - a. Pull back spring loaded collar on driveline yoke and slide yoke onto shaft (G) (above).
  - b. Release collar, ensuring yoke locks in position on shaft.



**DANGER:** Entanglement with rotating driveline will cause serious personal injury or death. Close adapter cover and keep all shields in place.

**NOTE:** For driveline storage, pull back spring loaded collar and store on pin (B).



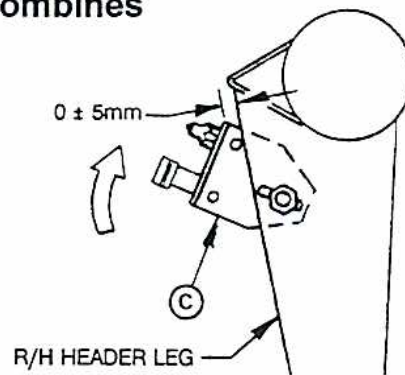
DRIVELINE STORAGE



# Adapter Mounting Instructions for Gleaner & White Combines

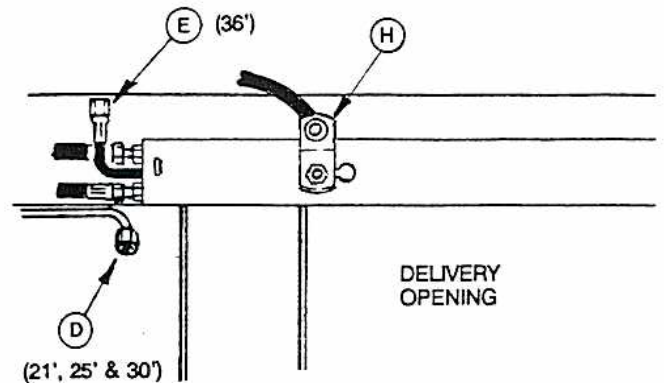
## PREPARING THE HEADER

1. 21, 25 & 30 ft. Headers: Reposition the reel drive couplers mounting plate (C) by rotating it up to align upper corner of plate with rear edge of R/H header leg within 5 mm (3/16").



REPOSITION COUPLER MOUNTING PLATE  
21', 25', & 30' HEADERS

2. Attach reel lift hose assembly (from adapter kit) to header as follows:
  - a. Bolt coupler support (H) to angle on back of header tube at location shown with 3/8 x 3/4 carriage bolt and flange nut.
  - b. 21, 25 & 30 ft. Headers: Attach other end of hose to reel lift line (D) at left of delivery opening.
  - c. 36 ft. Header: Attach other end of hose to reel lift hose (E) at left of delivery opening.

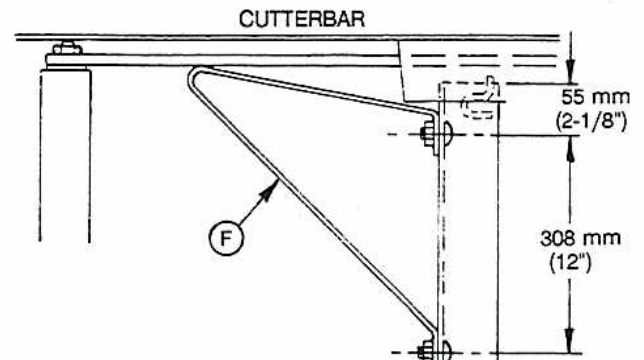


ATTACH REEL LIFT HOSE ASSEMBLY

3. Attach idler bar supports (F) to left and right header decks with 3/8 x 3/4 carriage bolts and nuts as shown.

**NOTE:** If holes are not provided in deck support angle, drill 3/8 dia. holes at dimensions shown. If holes are field drilled, reverse hardware so square of carriage bolt is properly seated.

Position the support to keep idler bar parallel to, but not touching cutterbar.

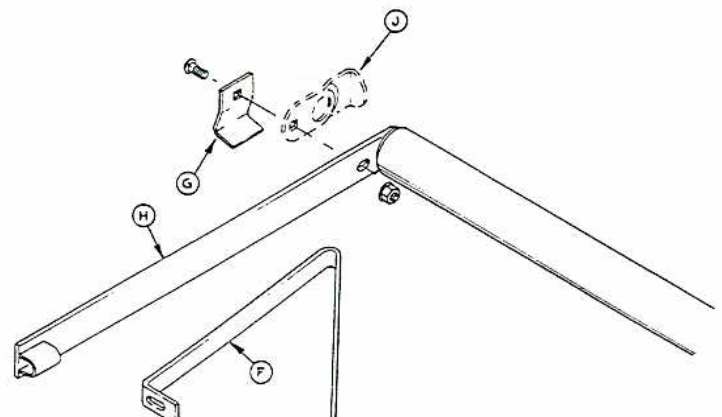


ATTACH IDLER BAR SUPPORTS  
TO HEADER DECKS (R/H SHOWN)

4. Attach support (G) to left and right idler bar (H) (at front of long deck idler rollers) using 3/8 x 1 inch carriage bolt and nut as shown.

**NOTE:** For Triple Delivery Headers, install support (G) after deck stop (J).

These supports prevent the idler roller from lowering, which can cause draper damage.

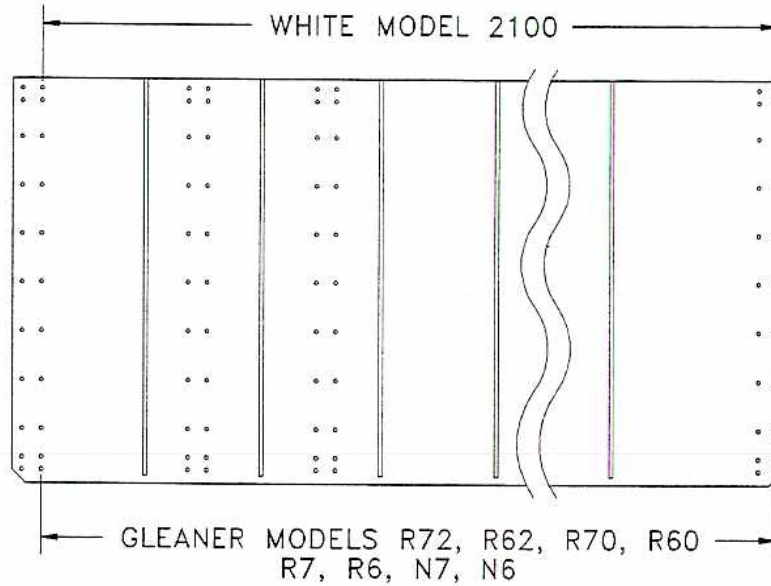


ATTACH SUPPORTS TO IDLER BARS  
(L/H SHOWN)

## Adapter Mounting Instructions for Gleaner & White Combines

### PREPARING THE HEADER (continued)

5. Connect header side drapers as shown in the illustration below. Trim front corners at 45° as described in 960 Header Operator's Manual, Unloading & Assembly section.



SIDE DRAPER CONNECTION



# Adapter Mounting Instructions for New Holland Combines

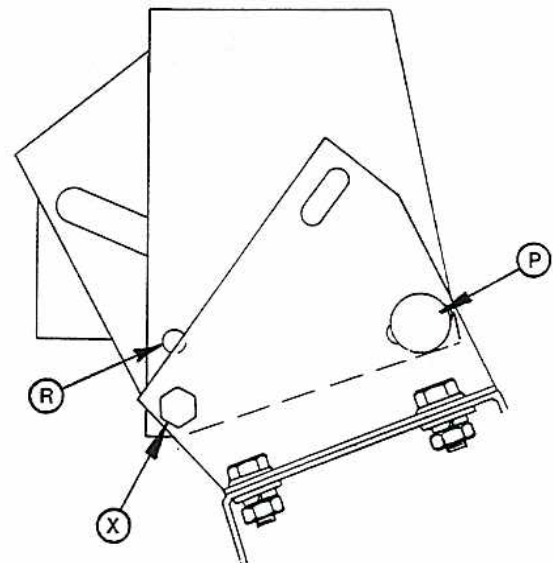
## PREPARING THE COMBINE

1. For TR86, TR87, TR88 and all TX model combines, check with combine dealer to ensure combine is equipped with tire size, rear ballast etc. to carry larger headers.
2. For TR model combines, if equipped with variable speed header drive, set header drive speed to 580 RPM.
3. Adjust to flattest table angle.
4. Remove dust shields from front of feeder house. On TR combines, also remove feeder house closure strips.

## PREPARING THE ADAPTER

Swing chain case out to working position (P). If chain case has been removed, attach front bolt at (R) for TR combines and at (X) for TX combines.

**IMPORTANT:** Damage to housing or drivelines may occur if housing is incorrectly mounted.



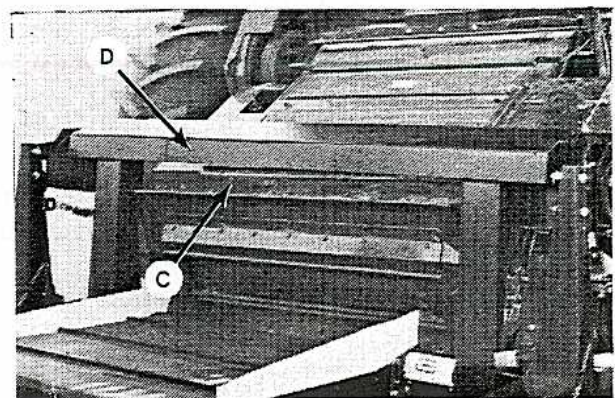
CHAIN CASE - WORKING POSITION

## ATTACHING ADAPTER TO COMBINE

1. Slowly drive combine up to adapter until feeder saddle (C) is directly under adapter top cross-member (D).
2. Raise feeder house to lift adapter, ensuring feeder saddle is properly engaged in adapter frame. Raise adapter fully.



**WARNING:** To avoid bodily injury or death from unexpected start-up or fall of raised attachment; stop engine, remove key and engage lift cylinder stop before proceeding with hook-up.

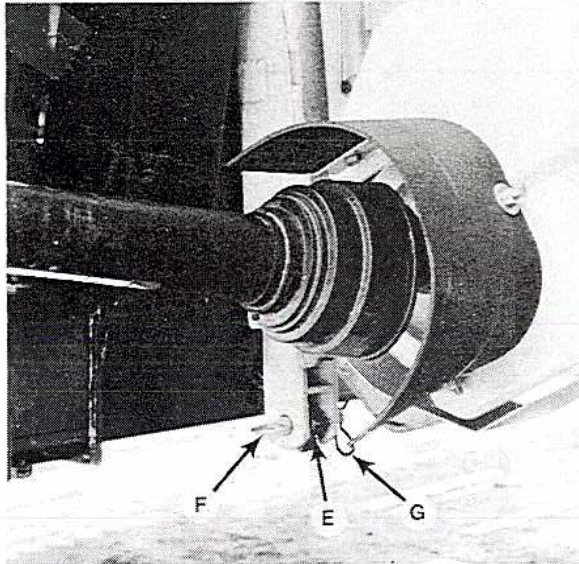


ALIGN FEEDER SADDLE UNDER  
ADAPTER FRAME

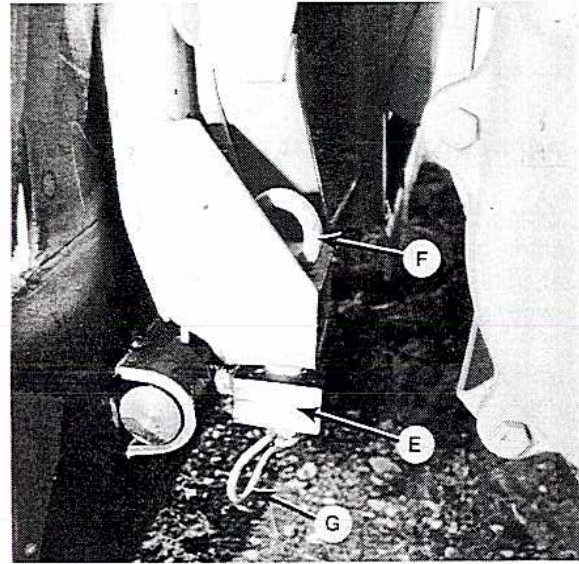
## Adapter Mounting Instructions for New Holland Combines

### ATTACHING ADAPTER TO COMBINE (continued)

3. Raise eye bolt (E) up to feeder house. Turn eye bolt (E) until pin (F) on feeder house lines up with hole in eye bolt (E).
4. Install pin (F) through feeder house frame and eye bolt (E). Lock with hair pin (G).



ENGAGE LOCK PINS - BOTH SIDES (TX)



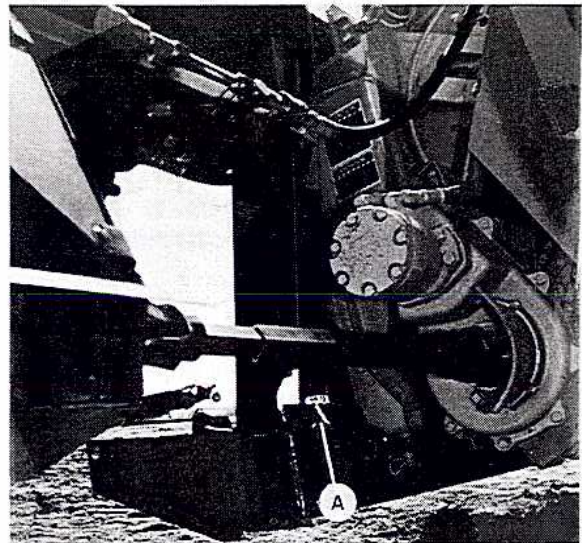
ENGAGE LOCK PINS - BOTH SIDES (TR)

5. Remove driveline from storage bolt (A) and attach to feeder house output shaft:
  - a. Push button on driveline yoke and slide yoke onto shaft.
  - b. Be sure yoke locks in position on shaft.

**NOTE:** The button on the driveline must be aligned with the groove in the shaft.



**DANGER:** Entanglement with rotating driveline will cause serious personal injury or death. Close driveline cover on adapter.



ATTACH DRIVELINE



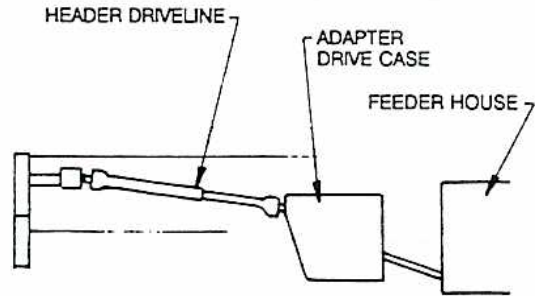
# Adapter Mounting Instructions for New Holland Combines

## PREPARING THE HEADER

1. 21 ft. Header Only: Shorten header driveline before attaching to the combine adapter.

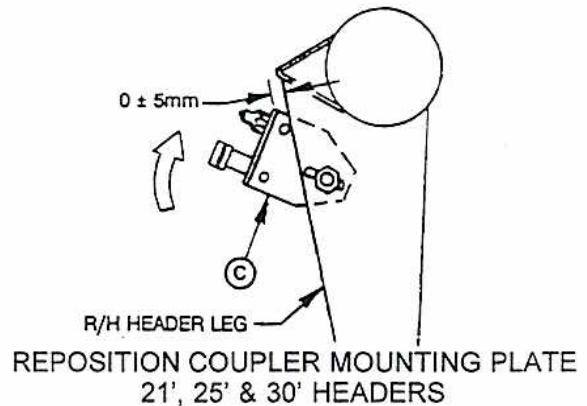
To shorten:

- a. Separate the driveline.
- b. Male Shaft Half: Cut plastic shield tube at 590 mm (23-1/4") from center of cross and bearing. Cut steel shaft at 600 mm (23-5/8") from center of cross and bearing.
- c. Female Tube Half: Replace with shorter driveline half, Part No. 40495, available from your MacDon dealer.
- d. Join the driveline. Collapsed length (center of cross to center of cross) should be 650 mm (25-21/32").
- e. Cut hole in plastic shield to expose grease fitting.



MODIFY HEADER DRIVELINE -  
21' HEADER ONLY

2. 21, 25 & 30 ft. Headers: Reposition the reel drive couplers mounting plate (C) by rotating it up to align upper corner of plate with rear edge of R/H header leg within 5 mm (3/16").

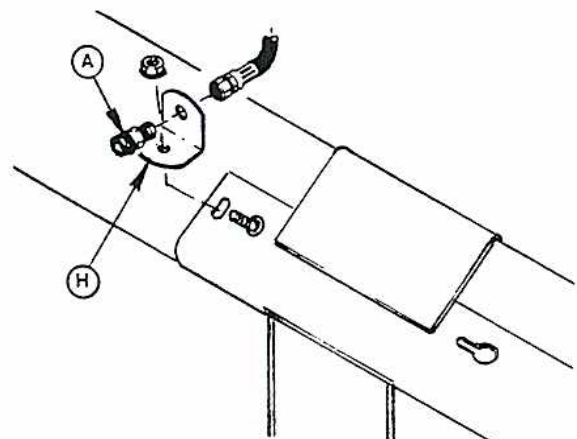


REPOSITION COUPLER MOUNTING PLATE  
21', 25' & 30' HEADERS

3. TR Combine: Attach reel lift hose from adapter package to hydraulic line (D) or hose (E) at left of delivery opening.

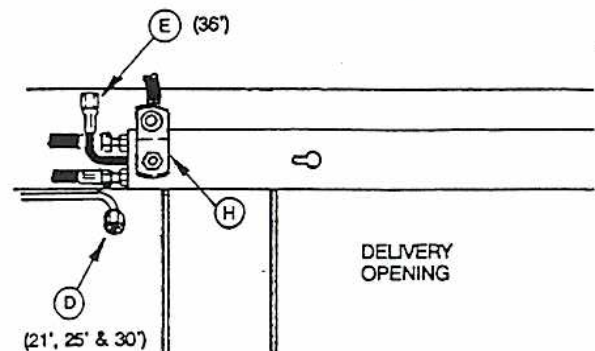
TX Combine: Attach reel lift hose and coupler support from adapter package to header as follows:

- a. Bolt coupler support (H) to angle on back of header tube at location shown with 3/8 x 3/4 carriage bolt and flange nut.
- b. Mount coupling (A), supplied with TX Combine, onto support.
- c. Attach reel lift hose to coupling (A).



ATTACH COUPLER SUPPORT TO HEADER  
TX COMBINE ONLY

- d. 21, 25 & 30 ft. Headers: Attach other end of hose to reel lift line (D) at left of delivery opening.
- e. 36 ft. Header: Attach other end of hose to reel lift hose (E) at left of delivery opening.



ATTACH REEL LIFT HOSE TO HEADER

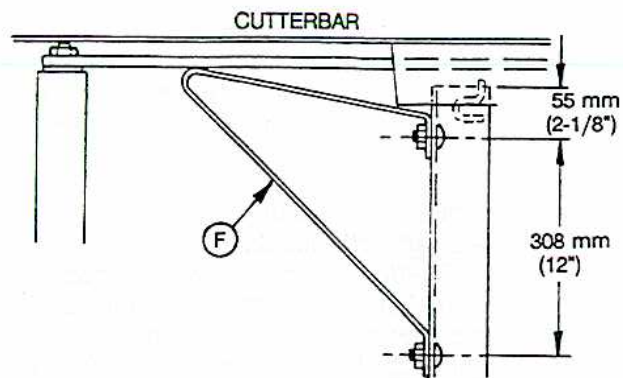
## Adapter Mounting Instructions for New Holland Combines

### PREPARING THE HEADER (continued)

4. TR Combine: Attach idler bar supports (F) to left and right header decks with 3/8 x 3/4 carriage bolts and nuts as shown.

**NOTE:** If holes are not provided in deck support angle, drill 3/8 diam. holes at dimensions shown. If holes are field drilled, reverse hardware so square of carriage bolt is properly seated.

Position the support to keep idler bar parallel to, but not touching cutterbar.

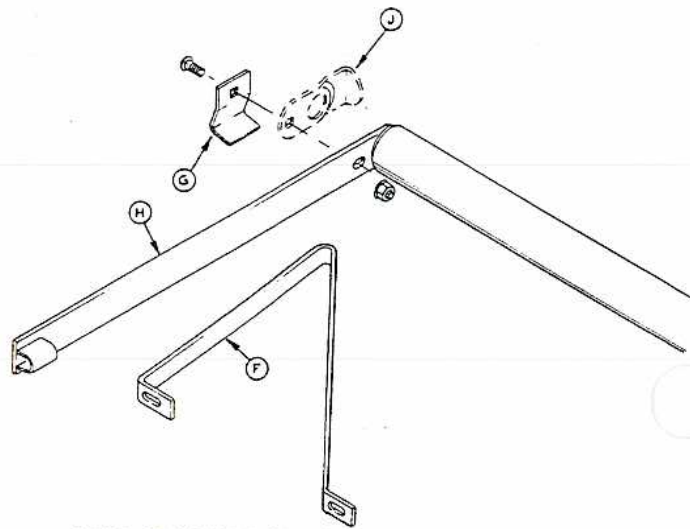


ATTACH IDLER BAR SUPPORTS  
TO HEADER DECKS (R/H SHOWN)  
TR COMBINE ONLY

5. TR Combine: Attach support (G) to left and right idler bar (H) (at front of long deck idler rollers) using 3/8 x 1 inch carriage bolt and nut as shown.

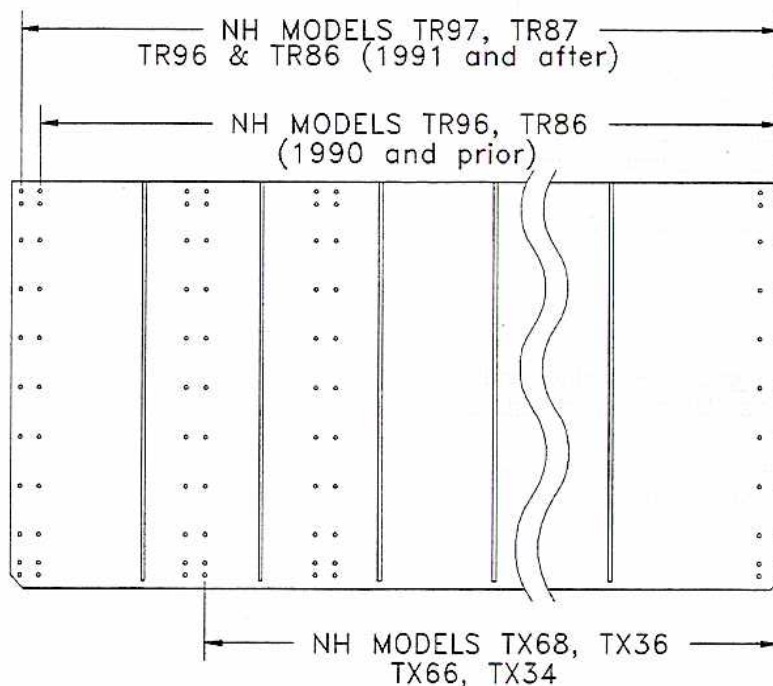
**NOTE:** For Triple Delivery Headers, install support (G) after deck stop (J).

These supports prevent the idler roller from lowering, which can cause draper damage.



ATTACH SUPPORTS TO IDLER BARS  
(L/H SHOWN) - TR COMBINE ONLY

6. Connect header side drapers as shown in the illustration below. Trim front corners at 45° as described in 960 Header Operator's Manual, Unloading & Assembly section.





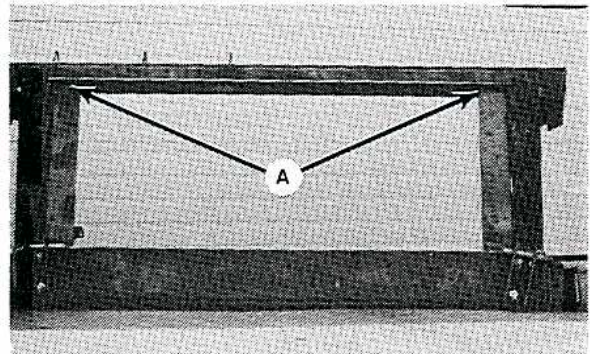
# Adapter Mounting Instructions for Claas and MF 8450/8460 Combines

## PREPARING THE COMBINE

1. For Claas 98, 96 and MF 8450 combines, check with Combine dealer to ensure combine is equipped with tire size, rear ballast etc. to carry larger headers.
2. Add third header lift cylinder, if required.

## ATTACHING ADAPTER TO COMBINE

1. Slowly drive combine up to adapter until lift lugs on combine are directly under lift pockets (A) in adapter top cross member.



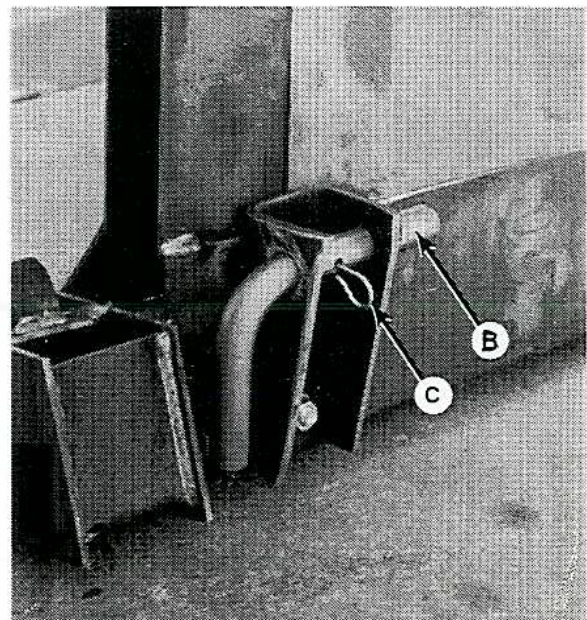
ALIGN LIFT LUGS UNDER ADAPTER FRAME

2. Raise feeder house to lift adapter, ensuring lift lugs are properly engaged. Raise adapter fully.



**WARNING:** To avoid bodily injury or death from unexpected start-up or fall of raised attachment; stop engine, remove key and engage lift cylinder stop before proceeding with hook-up.

3. Engage lock pins (B) in adapter brackets, and install hair pin (C), both sides.



ENGAGE LOCK PINS - BOTH SIDES

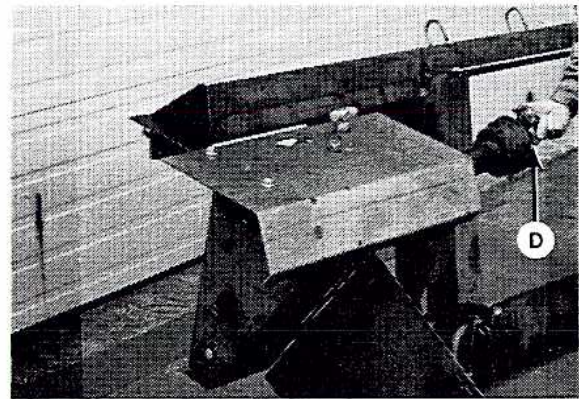
# Adapter Mounting Instructions for Claas and MF 8450/8460 Combines

## ATTACHING ADAPTER TO COMBINE (continued)

4. Attach driveline (D) to feeder house output shaft:
  - a. Push button on driveline yoke and slide yoke onto shaft.
  - b. Be sure yoke locks in position on shaft.



**DANGER:** Entanglement with rotating driveline will cause serious personal injury or death. Close driveline cover on adapter.



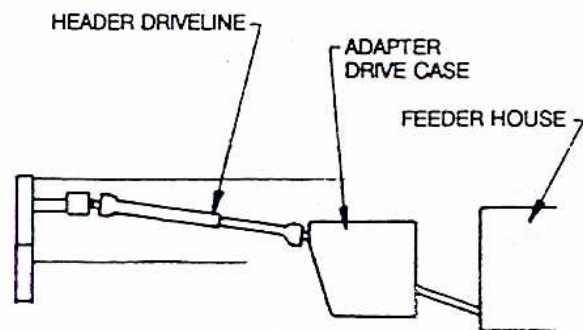
ATTACH DRIVELINE

## PREPARING THE HEADER

1. Attach reel lift hose from adapter package to hydraulic line at left of delivery opening.
2. Install hose extensions from adapter package to reel drive pressure and return hose quick couplers at header R/H leg.
3. 21 ft. Header Only: Shorten header driveline before attaching to the combine adapter.

To shorten:

- a. Separate the driveline.
- b. Male Shaft Half: Cut plastic shield tube at 590 mm (23-1/4") from center of cross and bearing. Cut steel shaft at 600 mm (23-5/8") from center of cross and bearing.
- c. Female Tube Half: Replace with shorter driveline half, Part No. 40495, available from your MacDon dealer.
- d. Join the driveline. Collapsed length (center of cross to center of cross) should be 650 mm (25-21/32").
- e. Cut hole in plastic shield to expose grease fitting.



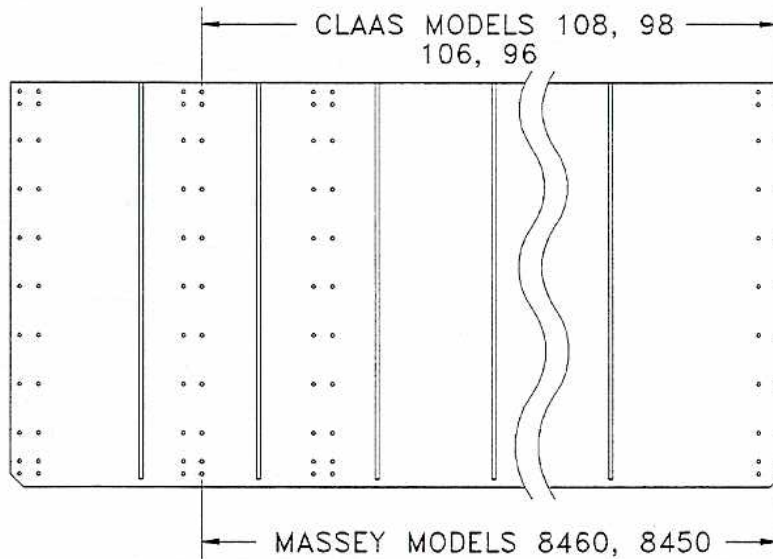
MODIFY HEADER DRIVELINE -  
21' HEADER ONLY



## Adapter Mounting Instructions for Claas and MF 8450/8460 Combines

### PREPARING THE HEADER (continued)

4. Connect header side drapers as shown in the illustration below. Trim front corners at 45° as described in 960 Header Operator's Manual, Unloading & Assembly section.



SIDE DRAPER CONNECTION

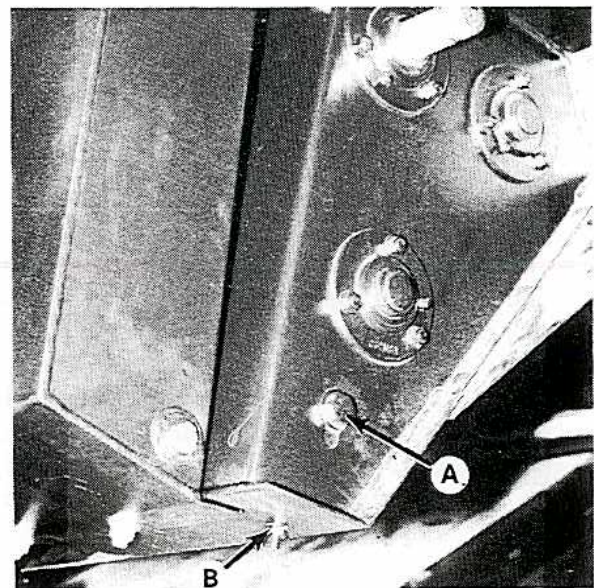
### MAINTENANCE

Adapter drive chain tension adjustment is different than as shown in Adapter Operator's Manual.

Inspect chain by removing rubber plug in drive case. Maximum chain deflection is 1 in. (25 mm).

To adjust chain tension:

1. Loosen nut on idler mounting bolt (A).
2. Turn nut (B) clockwise to increase chain tension.
3. Tighten nut on bolt (A) to secure the position.



ADAPTER CHAIN TENSION ADJUSTMENT

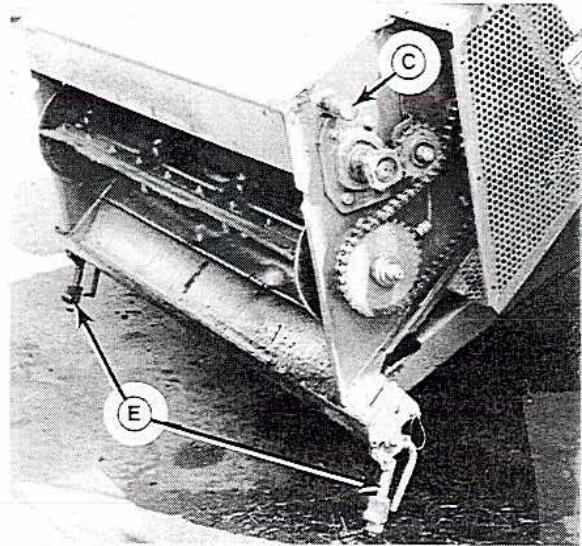
# Adapter Mounting Instructions for Massey Ferguson 860 Combine

## ATTACHING ADAPTER TO COMBINE

1. Slowly drive combine up to adapter until lift lugs (C) are directly under notched lift brackets on adapter top cross member.
2. Raise feeder house to lift adapter, ensuring lift lugs are properly engaged. Raise adapter fully.

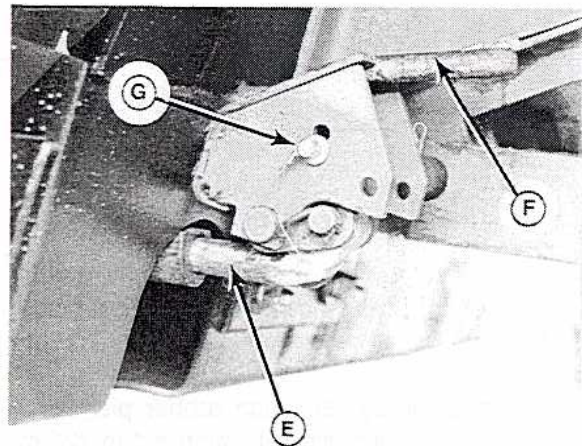


**WARNING:** To avoid bodily injury or death from unexpected start-up or fall of raised attachment; stop engine, remove key and engage lift cylinder stop before proceeding with hook-up.



ALIGN LUGS UNDER ADAPTER FRAME

3. Position bottom lock pins (E) in adapter frame and raise handle (F) to lock in position. Install retaining pin (G).

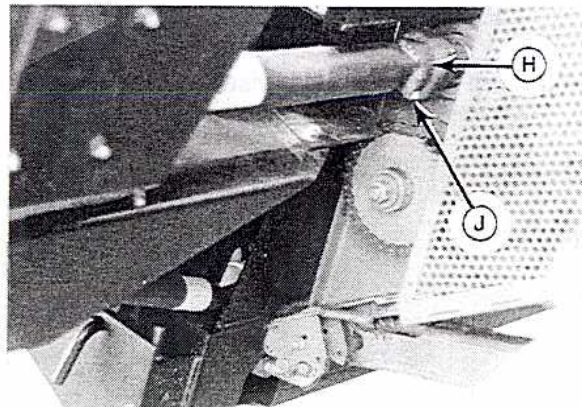


ENGAGE LOCK PINS

4. Attach driveline, with adapter (H), to feeder house output shaft. Be sure spring loaded pin (J) engages groove in driveline shaft.



**DANGER:** Entanglement with rotating driveline will cause serious personal injury or death. Close adapter cover and keep all shields in place.



ATTACH DRIVELINE



# Adapter Mounting Instructions for Massey Ferguson 860 Combine

## PREPARING THE HEADER

1. Attach reel lift hose from adapter package to hydraulic line at left of delivery opening.

2. 21 ft. Header Only: Shorten header driveline before attaching to the combine adapter.

To shorten:

a. Separate the driveline.

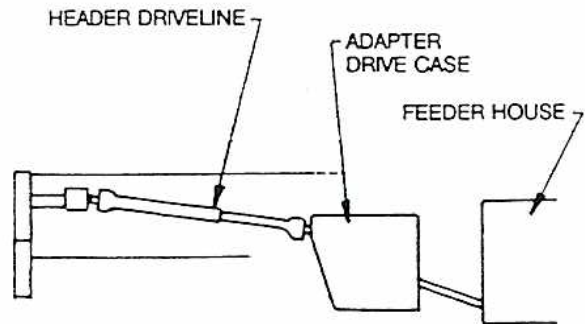
b. Male Shaft Half: Cut plastic shield tube at 590 mm (23-1/4") from center of cross and bearing. Cut steel shaft at 600 mm (23-5/8") from center of cross and bearing.

c. Female Tube Half: Replace with shorter driveline half, Part No. 40495, available from your MacDon dealer.

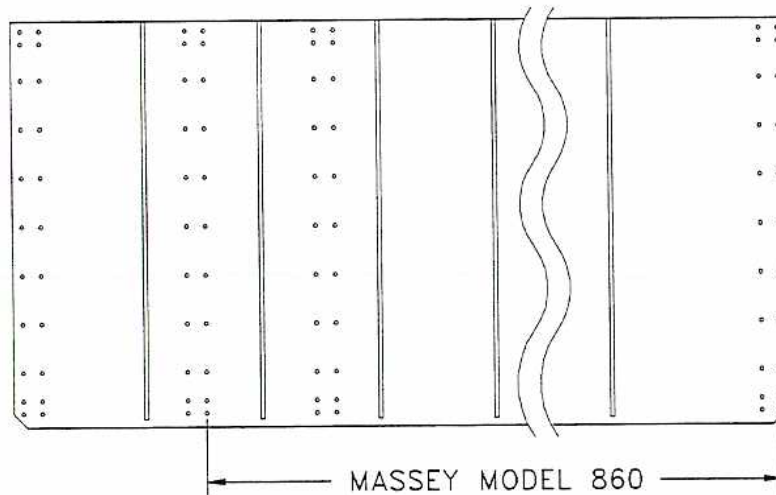
d. Join the driveline. Collapsed length (center of cross to center of cross) should be 650 mm (25-21/32").

e. Cut hole in plastic shield to expose grease fitting.

3. Connect header side drapers as shown in the illustration below. Trim front corners at 45° as described in 960 Header Operator's Manual, Unloading & Assembly section.



MODIFY HEADER DRIVELINE -  
21' HEADER ONLY



SIDE DRAPER CONNECTION

## Adapter Mounting Instructions for Massey Ferguson 860 Combine

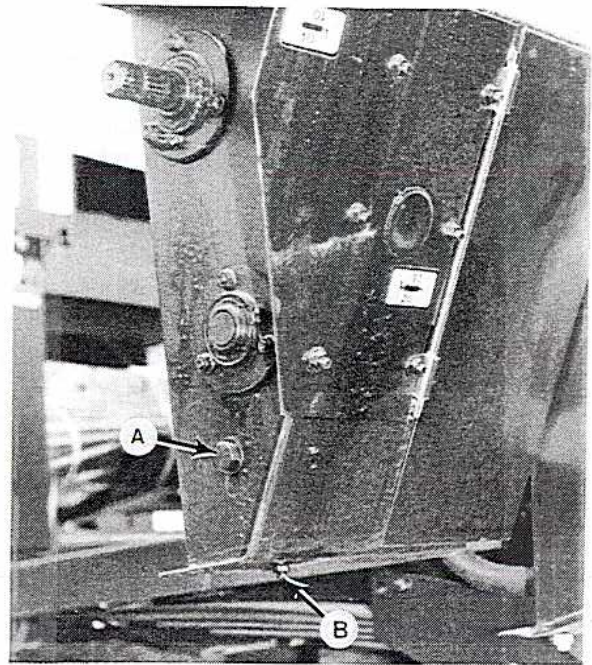
### MAINTENANCE

Adapter drive chain tension adjustment is different than as shown in Adapter Operator's Manual.

Inspect chain by removing rubber plug in drive case. Maximum chain deflection is 1 in. (25 mm).

To adjust chain tension:

1. Loosen nut on idler mounting bolt (A).
2. Turn nut (B) clockwise to increase chain tension.
3. Tighten nut on bolt (A) to secure the position.



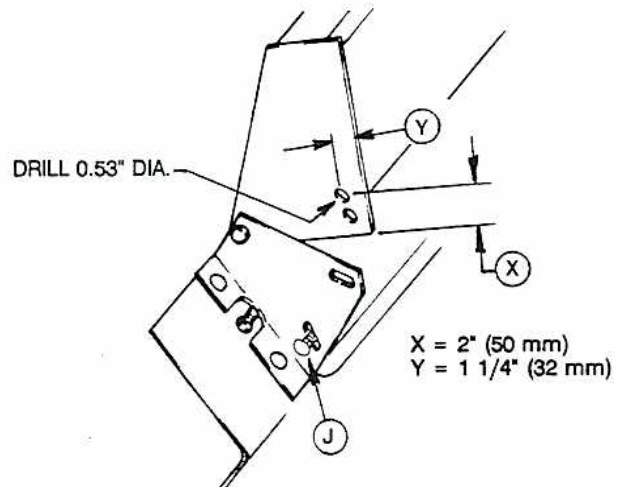
ADAPTER CHAIN TENSION ADJUSTMENT



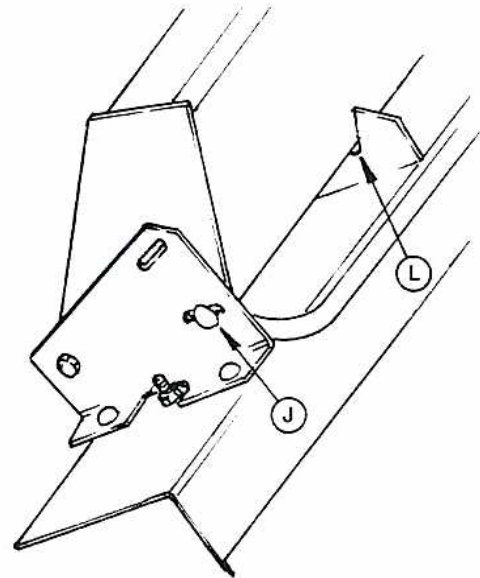
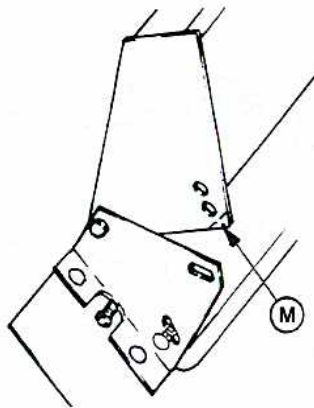
# Modification to Case Adapter to fit Massey 8570 Combine

**NOTE:** Steps 1 and 2 are required for Case adapters with serial numbers below 78150. For adapters with serial numbers above 78150, go to step 3.

1.
  - a. Remove bolt (J) and pivot chain case forward to expose left end of adapter frame.
  - b. Drill a 0.53 inch hole in left end of adapter frame, located as shown.
  - c. Cut away sufficient material from chain case at (L) and from left end of adapter frame at (M) to allow chain case to be pivoted enough to install bolt (J) in new hole.



DRILL NEW HOLE IN LEFT END FRAME

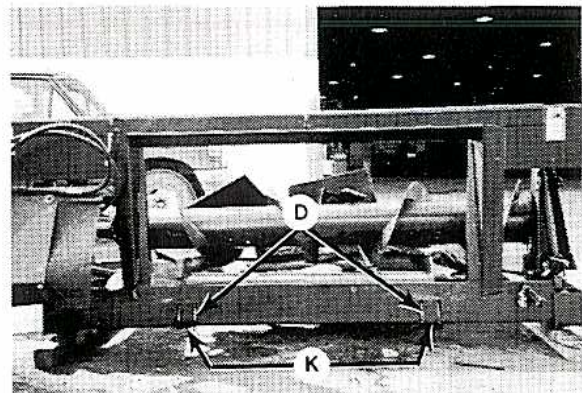


INSTALL CHAIN CASE IN NEW POSITION

2.
  - a. Remove feeder draper deck.
  - b. Remove sheet metal plugs over U-bolts (D). Remove U-bolts (D) from adapter frame.
  - c. Salvage pivot bar (K) from U-bolts. Discard the U-bolts and nuts.
  - d. Replace feeder draper deck.

**NOTE:** Step 3 is required for Case adapters with serial numbers above 78150. For adapters with serial numbers below 78150, go to step 4.

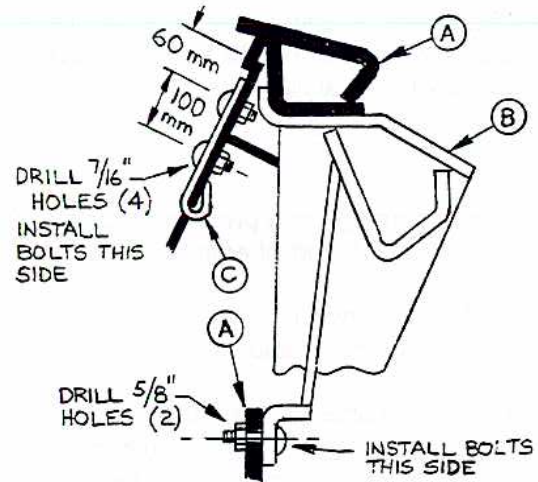
3. Salvage pivot bar (K) and 5/8 NC jam nuts from 5/8 NC x 4 1/2 long bolts. Discard bolts.



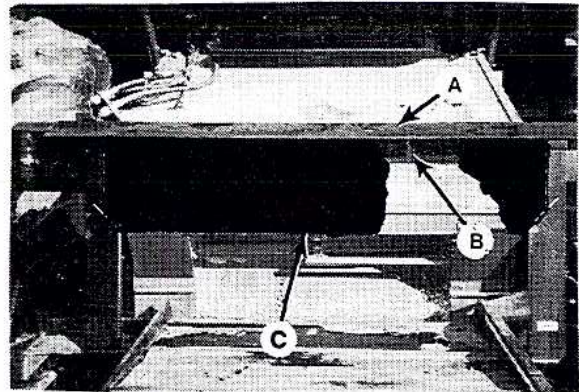
REMOVE BOLTS AND PIVOT BAR

## Modification to Case Adapter to fit Massey 8570 Combine

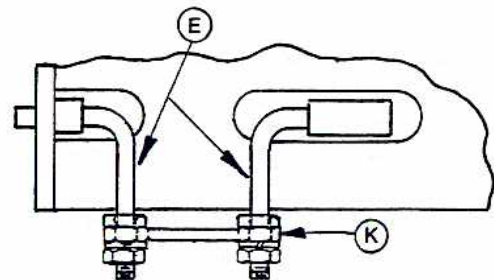
4.
  - a. Clamp adapter mounting bracket (B) and deflector (C) from kit to top of adapter frame (A). Drill holes as shown.
  - b. Install deflector (C) with 3/8 NC x 3/4 long carriage bolts and flange nuts.
  - c. Install L-bolts (E) from modification kit onto sub-frame. Install 5/8 jam nuts and pivot bar (K) (salvaged previously) and secure with 5/8 nuts and lock washers from modification kit.
  - d. Install 5/8 NC x 1-1/2 long carriage bolt, flat washer, lock washer and hex nut in the two new holes drilled in step 4a.



DRILL MOUNTING HOLES IN CASE ADAPTER



BOLT SUB-FRAME TO  
CASE ADAPTER FRAME



INSTALL L-BOLTS AND PIVOT BAR



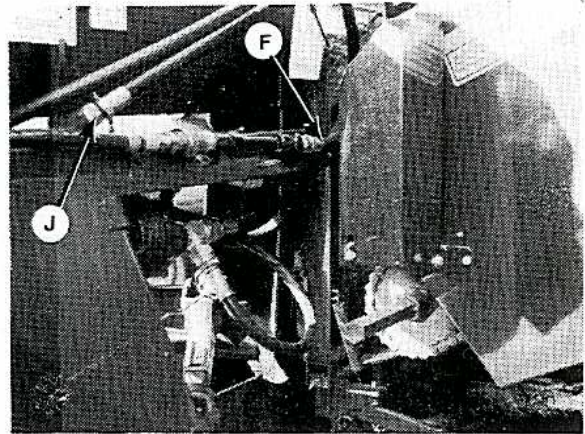
## Modification to Case Adapter to fit Massey 8570 Combine

5. **NOTE:** Depending on the serial number of your Case adapter, complete the following steps:

Serial numbers below 78150: Steps a., b., and c.

- a. Remove and salvage male quick coupler and cap (J) on the end of return hose (F). Remove and discard hose (F) from chain case.
- b. Attach longer hose (F) complete with coupler and cap from 8570 adapter bag.
- c. Install male coupler and cap (salvaged in step a) on reel pressure hose (see Header Manual).

**NOTE:** Go to Step i.



REPLACE HOSE  
(SERIAL NUMBERS BELOW 78150)

Serial numbers 78150 to 82885: Steps d. and e.

- d. Remove and salvage male quick coupler from hose in Case adapter bag. Install this coupler on reel return hose (see Header Manual).
- e. Remove and salvage male coupler and cap from hose in 8570 adapter bag. Install on reel pressure hose (see Header Manual).

**NOTE:** Go to Step i).

Serial numbers above 82885: see page 54.

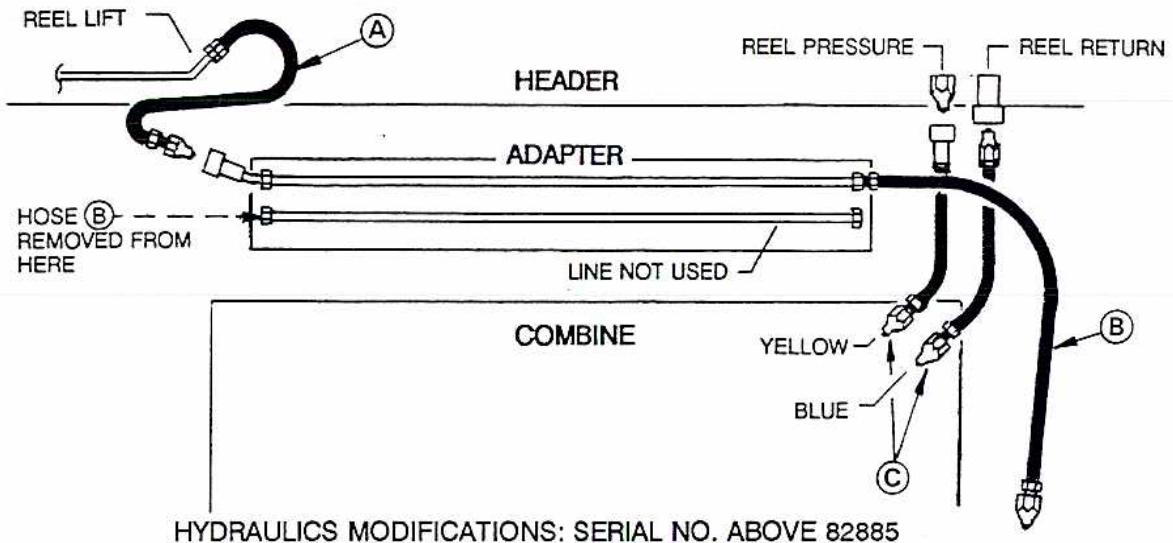
## Modification to Case Adapter to fit Massey 8570 Combine

5. (continued)

Serial numbers above 82885: Steps f., g., and h.

- f. Install reel lift hose (A) from Case adapter bag onto reel lift line at left of delivery opening on header.
- g. Remove three hoses from lines on back of Case adapter. Install long hose (B) at right end of line (D). This will now become part of the reel lift circuit.
- h. Install two male quick couplers (C) from 8570 adapter bag on the two short hoses removed in step g). (To match 8570 combine colour coding, install the quick coupler with blue cable tie on the hose with the male coupler at the opposite end.) Connect these hoses to header reel drive pressure and return lines as shown.

**NOTE:** Go to step i.



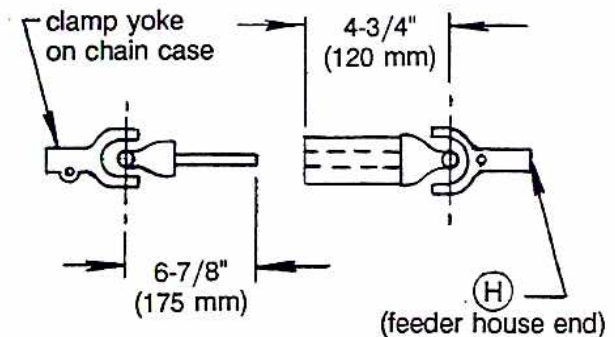
All serial Numbers: Steps i. and j.

- i. Replace 1-1/8" hex feeder house driveline yoke (H) on chain case drive shaft with 1-1/4" hex yoke from modification kit.
- j. Shorten driveline (H) to dimensions shown so it can be installed with chain case in field position.

**NOTE:** Following items from Adapter bags are not required for 8570:  
Below S.N. 78150 - female coupler in Case Adapter bag.

S.N. 78150 to 82885 - Hose (from step 5d) and female coupler in Case Adapter bag.  
 - Hose (from step 5e) in 8570 Adapter bag.

Above S.N. 82885 - Hose in 8570 Adapter bag and one hydraulic line on back of Case Adapter.



SHORTEN DRIVELINE

**SEE PAGE 55 FOR HOOK-UP**



# Adapter Mounting Instructions for MF 8570 Combines

## PREPARING THE COMBINE

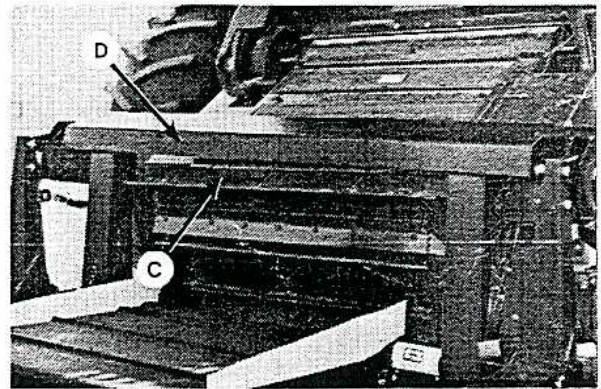
1. Check with Combine dealer to ensure combine is equipped with tire size, rear ballast etc. to carry larger headers.
  2. For 36 foot header, install optional third feeder house lift cylinder. See Combine dealer for kit.
  3. Remove rubber dust shield in front of feeder housing.
- 

## ATTACHING ADAPTER TO COMBINE

1. Modify adapter according to Instruction beginning on page 51.
2. Slowly drive combine up to adapter until feeder saddle (C) is directly under adapter top cross member (D).
3. Raise feeder house to lift adapter, ensuring feeder saddle is properly engaged in adapter frame. Raise adapter fully.

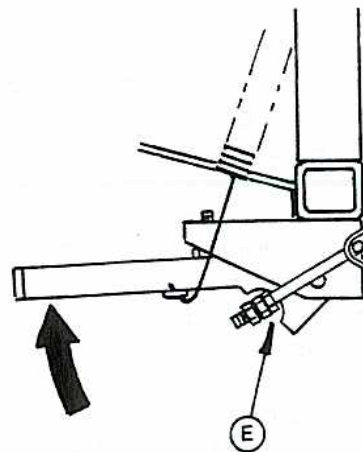


**WARNING:** To avoid bodily injury of death from unexpected start-up or fall of raised attachment; stop engine, remove key and engage lift cylinder stop before proceeding with hook-up.



ALIGN FEEDER SADDLE UNDER  
ADAPTER FRAME

4. Engage pivot bar on adapter frame into latch at (E), both sides. Pull up on latch lever and lock over-center.



ENGAGE LATCH - BOTH SIDES

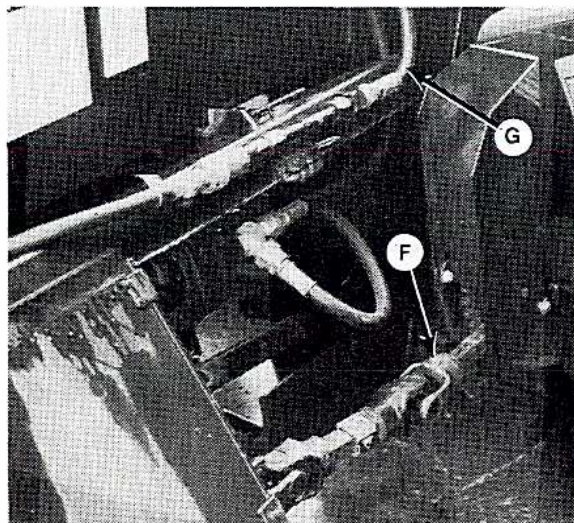
## Adapter Mounting Instructions for MF 8570 Combines

### ATTACHING ADAPTER TO COMBINE (continued)

5. Attach driveline to feeder house output shaft:
  - a. Align hole in shaft with hole in yoke and slide yoke onto shaft.
  - b. Install 5/16 NC x 3 bolt (F) supplied with modification kit.



**DANGER:** Entanglement with rotating driveline will cause serious personal injury or death. Close adapter cover.



ATTACH DRIVELINE  
(SERIAL # BELOW 78150 - ATTACH HOSE  
TO COMBINE RETURN)

**NOTE:** Step 6 applies only to adapters with serial number below 78150.

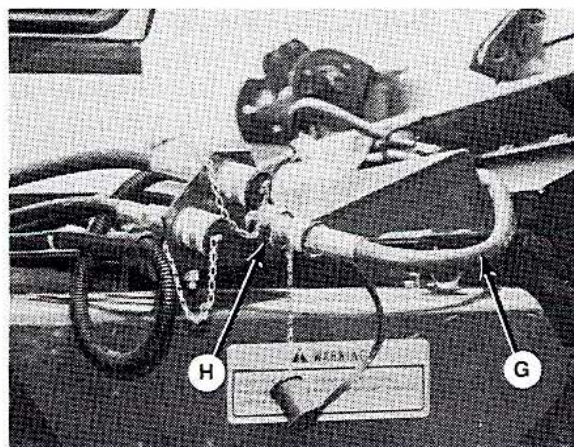
6. Connect the non colour-coded hydraulic hose (G) (from tee fitting at flow control on adapter) to blue colour-coded combine return coupler (H) on right hand side of feeder.

**IMPORTANT:** This coupler must be fully connected before engaging drive. FAILURE TO DO SO MAY DAMAGE MOTOR AND PUMP SEALS.

**NOTE:** The rest of the hydraulic connections are header to combine or header to adapter. See "Attaching Header to Combine and Adapter" in the Operator's Manual and use the hose colour-coding as a guide.

If this adapter is being used with a fixed center-delivery Harvest Header (no shiftable decks), remove hose clamp from the yellow coded hose on adapter to provide adequate length for attachment to hose on header.

**NOTE:** Hydraulic hose lengths and couplings are provided based on the latest available information from combine manufacturers. Should these not be suitable for a particular model or production series, modify or purchase the necessary components.



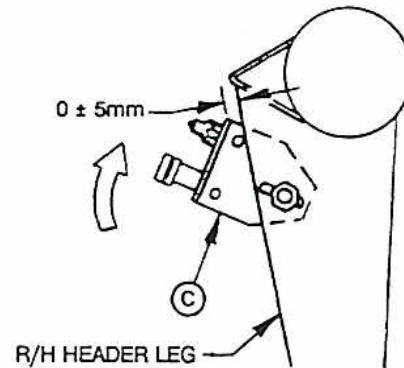
SERIAL # BELOW 78150 -  
ATTACH HOSE TO COMBINE RETURN



# Adapter Mounting Instructions for MF 8570 Combines

## PREPARING THE HEADER

1. **21, 25 & 30 ft. Headers:** Reposition the reel drive couplers mounting plate (C) by rotating it up to align upper corner of plate with rear edge of R/H header leg within 5 mm (3/16").

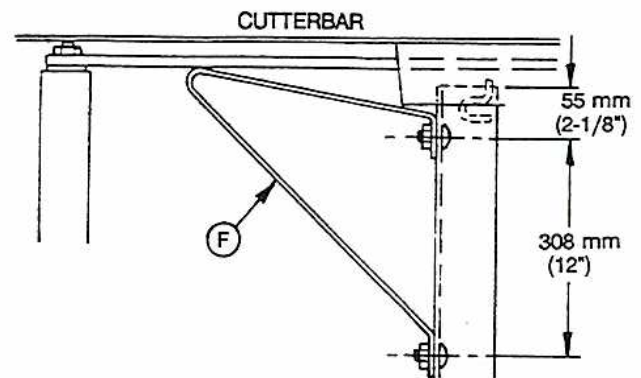


REPOSITION COUPLER MOUNTING PLATE  
21', 25' & 30' HEADERS

2. Attach idler bar supports (F) to left and right header decks with 3/8 x 3/4 carriage bolts and nuts as shown.

**NOTE:** If holes are not provided in deck support angle, drill 3/8 diam. holes at dimensions shown. If holes are field drilled, reverse hardware so square of carriage bolt is properly seated.

Position the support to keep idler bar parallel to, but not touching cutterbar.

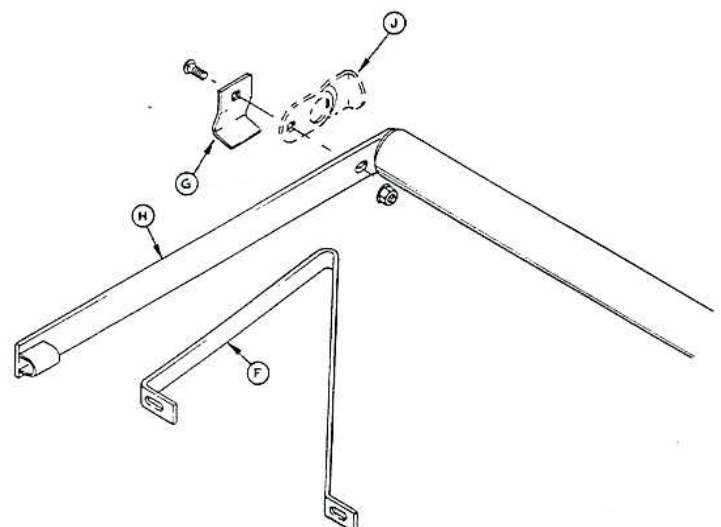


ATTACH IDLER BAR SUPPORTS  
TO HEADER DECKS (R/H SHOWN)

3. Attach support (G) to left and right idler bar (H) (at front of long deck idler rollers) using 3/8 x 1 inch carriage bolt and nut as shown.

**NOTE:** For Triple Delivery Headers, install support (G) after deck stop (J).

These supports prevent the idler roller from lowering, which can cause draper damage.

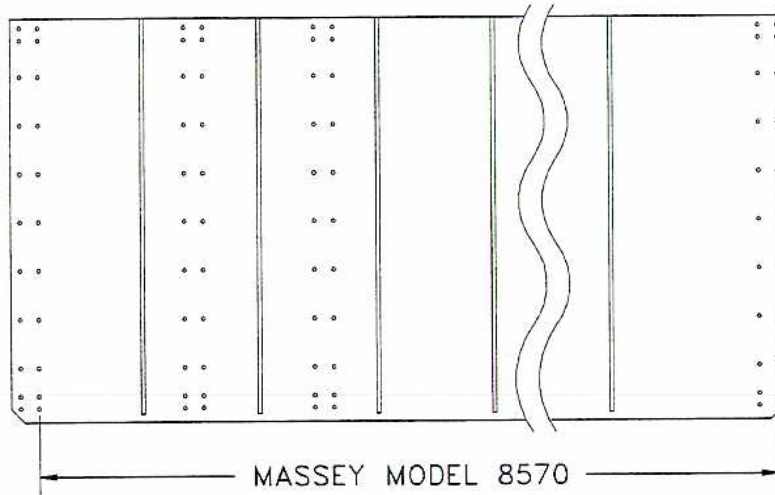


ATTACH SUPPORTS TO IDLER BARS  
(L/H SHOWN)

## Adapter Mounting Instructions for MF 8570 Combines

### PREPARING THE HEADER (continued)

4. Connect header side drapers as shown in the illustration below. Trim front corners at 45° as described in 960 Header Operator's Manual, Unloading & Assembly section.



SIDE DRAPER CONNECTION



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