

21' & 25' Model 972 HARVEST HEADER

SLOW SPEED TRANSPORT

MANUAL SUPPLEMENT

Inside Front Cover
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Model 972 Header 21' & 25' TRANSPORT OPTION

The transport option can be installed on 21 and 25 foot headers to allow towing the header behind the windrower tractor.

This supplement provides instructions for Set-Up, Transport Safety and Converting to and from Transport Position, recommended Maintenance and Repair Parts Listing.

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SET-UP INSTRUCTIONS

LEFT END (FORWARD) WHEEL

1. On bottom flange of left endsheet, drill two 0.656" holes* (B) as shown.

NOTE: Holes in bottom flange may be round or square.

* These holes will be present on headers built in Model Year 2001 and later.

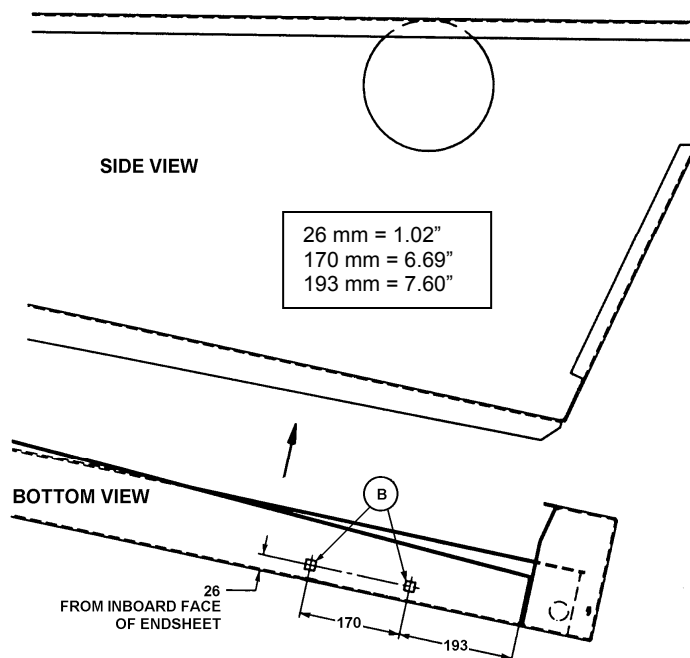
2. Attach left wheel assembly at the two holes drilled in step 1, using 5/8 x 1-1/4 carriage bolts at (H) (heads down) and 5/8 flange nuts.

3. Mark the position for hole (A) on the endsheet, using the wheel assembly as a guide. Drill a 0.656" diameter hole*.

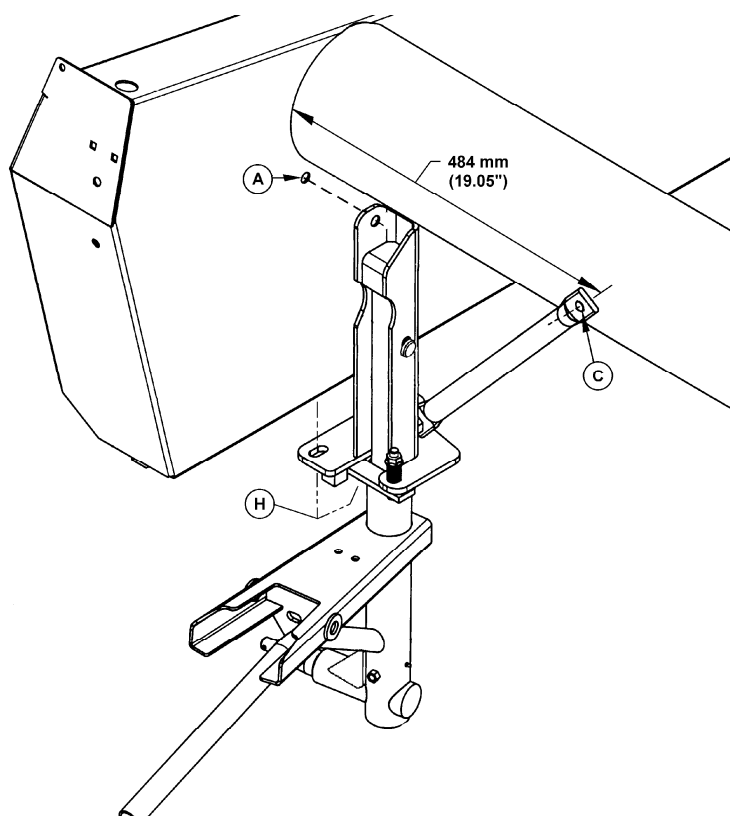
* This hole will be present on headers built in Model Year 2001 and later.

4. Position brace tube so that hole (C) is 484 mm (19.05") from left endsheet as shown. Mark this position and tack weld a 5/8 x 1 inch black bolt from kit to main tube. Position brace onto bolt and confirm proper bolt position, then remove brace from bolt and place a 5 mm (3/16") weld completely around bolt head.

NOTE: Ends of brace will bend slightly when initially tightened.



LEFT ENDSHEET HOLES



LEFT ENDSHEET HOLE & WELDED BOLT

SET-UP INSTRUCTIONS

LEFT END (FORWARD) WHEEL (continued)

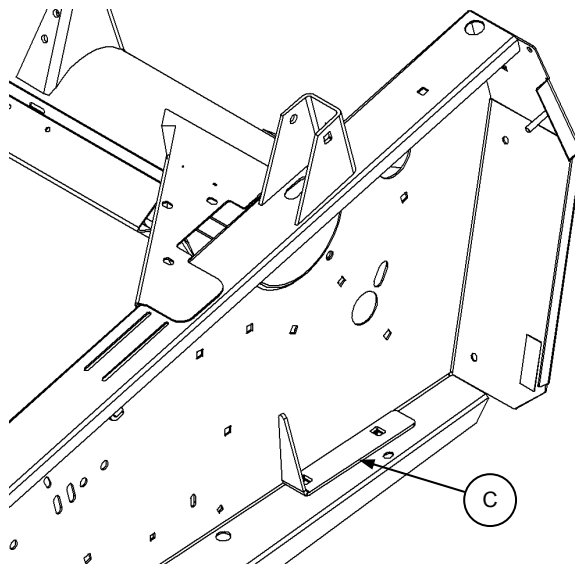
5. Remove left wheel assembly installed in step 2.

6. Align holes in plate (C) (from kit) with endsheet holes and place a 3mm (1/8") fillet weld all around the outside edges of plate (C).

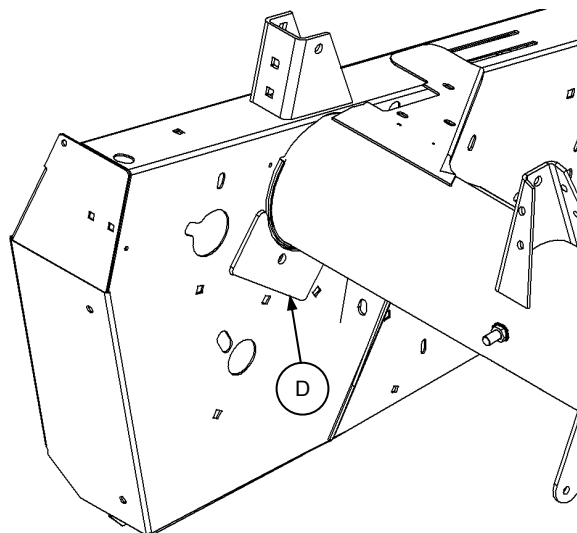
NOTE: Two bolts can be used in holes to hold plate (C) during welding.

7. Align hole in plate (D) (from kit) with endsheet hole and mate the radius of plate with backtube. Place a 3mm (1/8") fillet weld around the outside edges of plate (D).

NOTE: A bolt can be used to hold plate (D) in position during welding.



WELD OUTER SUPPORT PLATE – L/H ENDSHEET



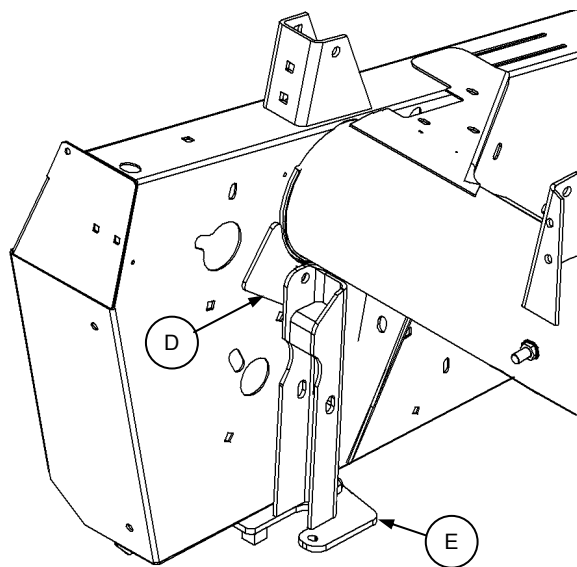
WELD INNER SUPPORT PLATE – L/H ENDS SHEET

SET-UP INSTRUCTIONS

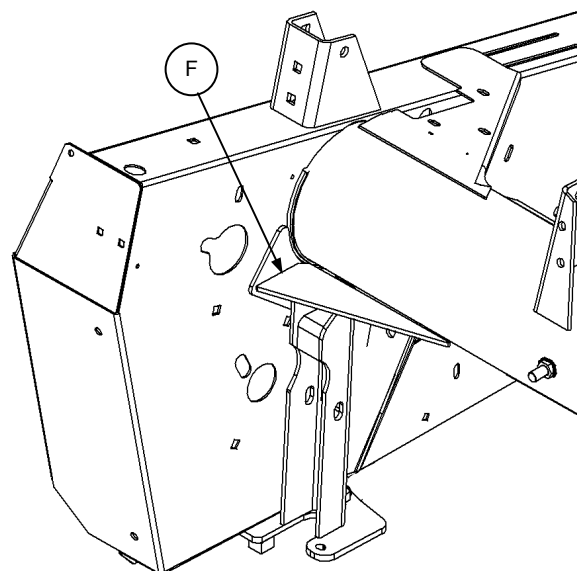
LEFT END (FORWARD) WHEEL (continued)

IMPORTANT: Steps 8-11 are for single sickle headers, for double sickle headers proceed to step 12.

8. Bolt left hand caster mount (E) into position against inside surface of plate (D) welded in step 7 (refer to page 6 for instruction).
9. Position triangular gusset (F) (from kit) 6mm (1/4") above left hand caster mount and flush against plate (D) and backtube. Tack gusset (F) in position.
10. Remove left hand caster mount and weld gusset (F). Place a 5mm (3/16") fillet weld on top and bottom edges against header backtube and plate (D).
11. Proceed to step 15.



MOUNT LEFT HAND CASTER SUPPORT



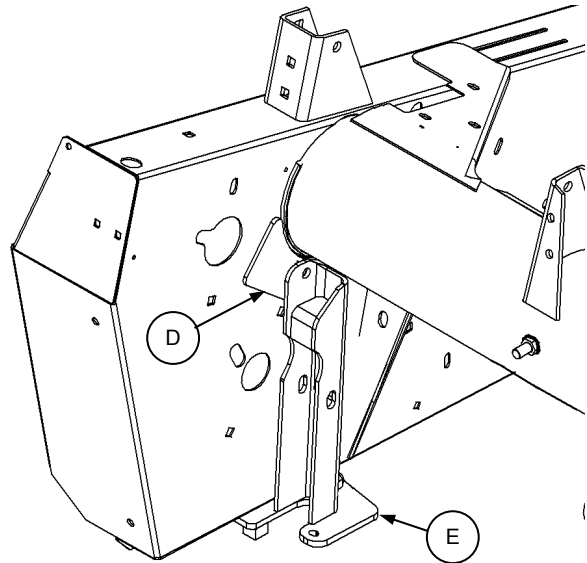
POSITION & WELD GUSSET (F)

SET-UP INSTRUCTIONS

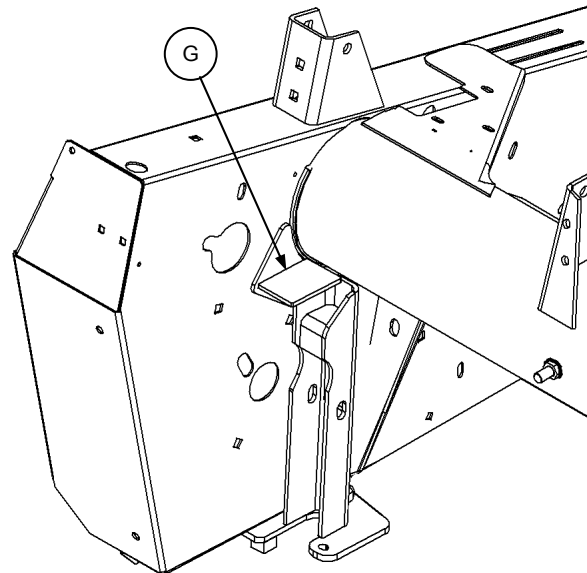
LEFT END (FORWARD) WHEEL (continued)

IMPORTANT: Steps 12-15 are for double sickle headers, for single sickle headers see page 4.

12. Bolt left hand caster mount (E) into position against inside surface plate (D) welded in step 7 (refer to next page for instruction).
13. Position rectangular (100 x 68mm) gusset (G) (from kit) 6mm (1/4") above left hand caster mount and flush against plate (D) and backtube. Position the 100mm (4") side of gusset against plate (D). Tack gusset (G) in position.
14. Remove left hand caster mount and weld gusset (G). Place a 3mm (1/8") fillet weld on top and bottom edges against header backtube, end panel gusset and plate (D).



MOUNT LEFT HAND CASTER SUPPORT



POSITION & WELD GUSSET (G)
(END PANEL GUSSET REMOVED FOR CLARITY)

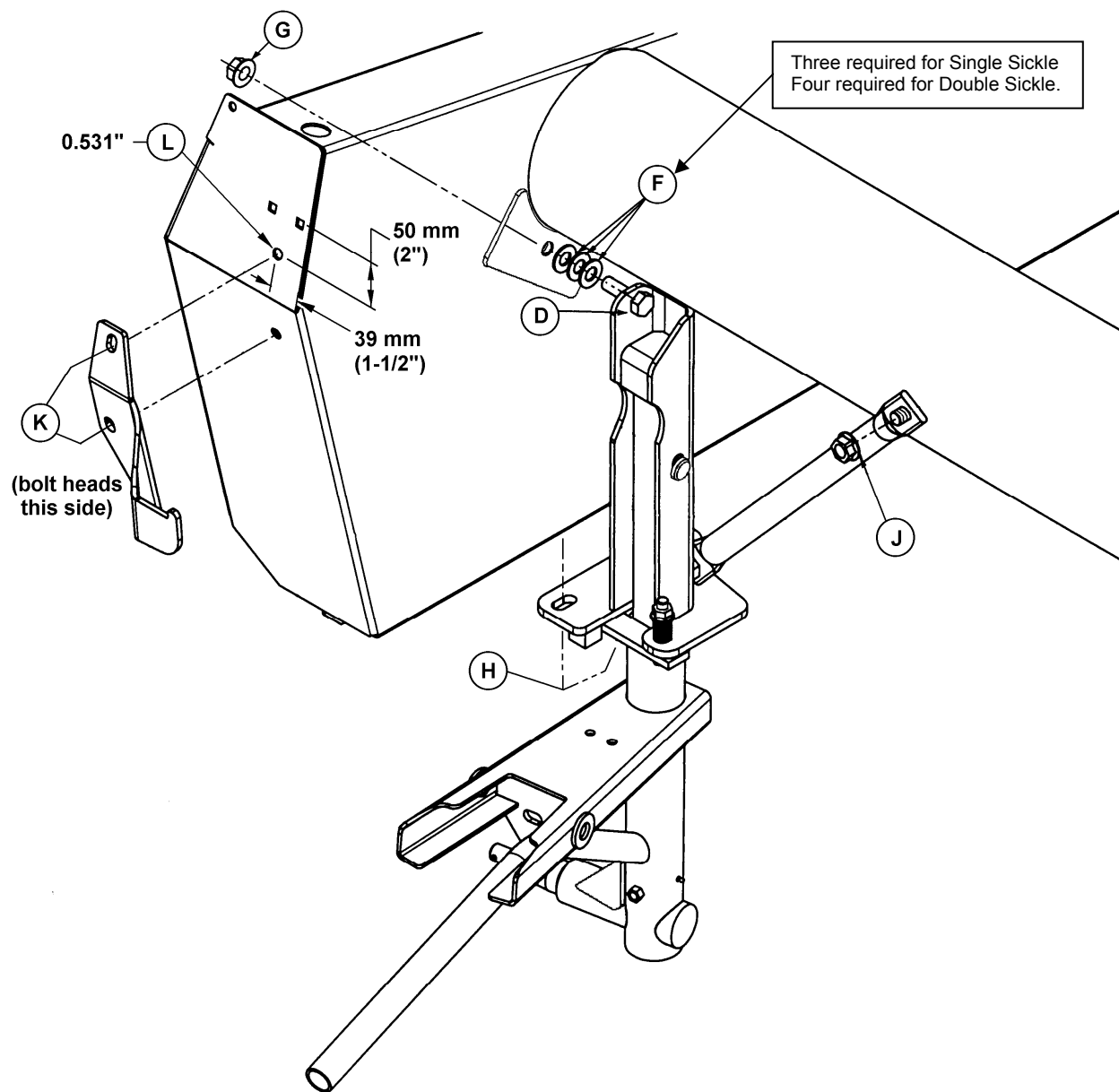
SET-UP INSTRUCTIONS

LEFT END (FORWARD) WHEEL (continued)

15. Install left wheel assembly as shown below:

- At the two holes in bottom flange of endsheet, use two 5/8 x 1-1/4 carriage bolts at (H) (heads down) and 5/8 flange nuts.
- At hole in side of left endsheet, use one 5/8 x 2" hex head bolt (D), 5/8 flat washers (F) (three for single sickle & four for double sickle headers), and 5/8 flange nut (G).
- At bolt welded to frame tube, use one 5/8 flange nut (J) to secure brace tube.
- Attach storage bracket to rear of left endsheet with two 1/2 x 1 inch short neck carriage bolts and 1/2 flange nuts at (K).

NOTE: For single sickle headers, If not present, drill 0.531" hole (L) at dimensions shown. For double sickle drive headers, at top bolt, use the existing belt tension adjusting bolt to secure bracket.



LEFT WHEEL ASSEMBLY

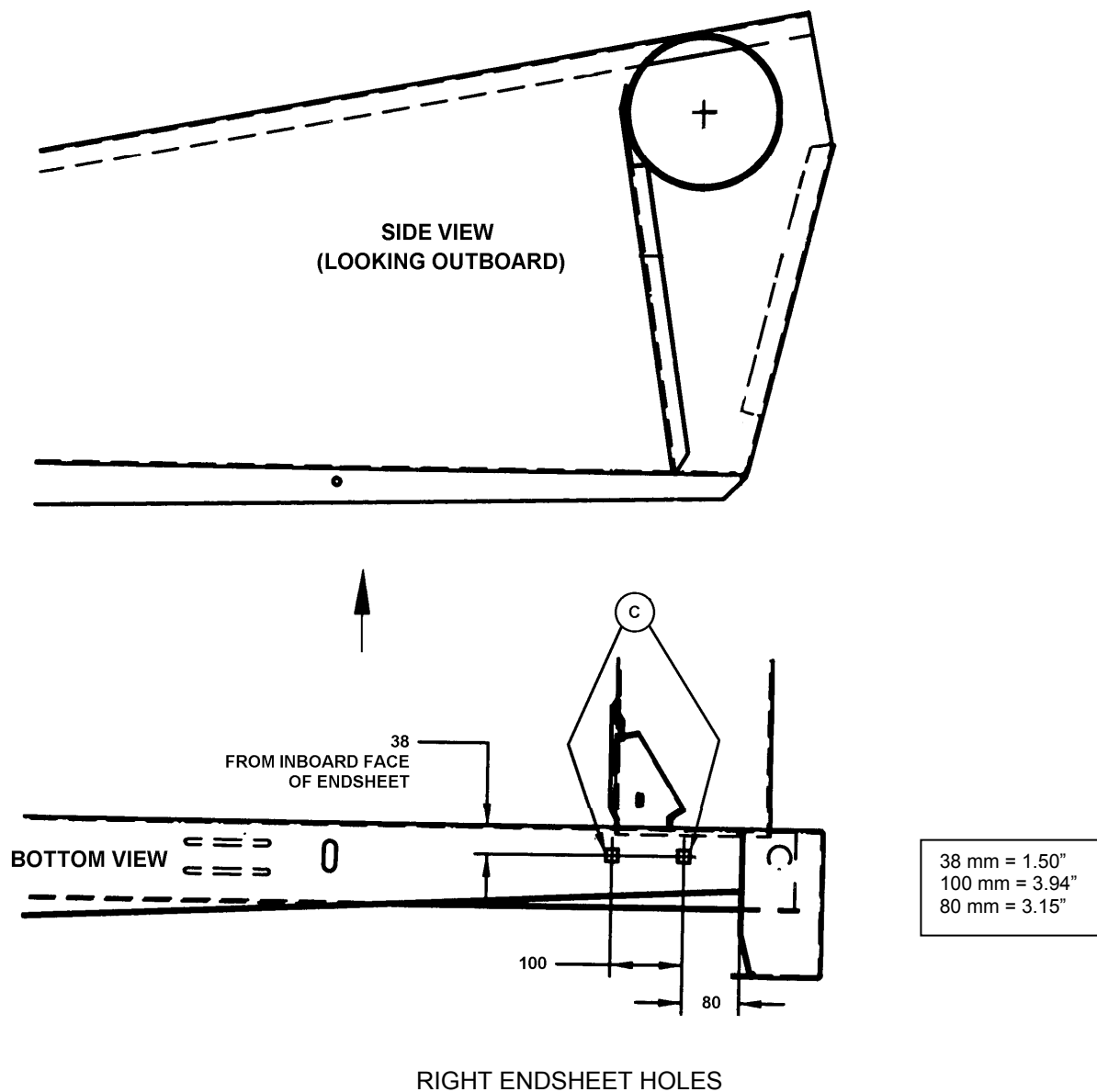
SET-UP INSTRUCTIONS

RIGHT END (REAR) WHEEL

1. On bottom flange of right endsheet, drill two 0.656" holes* (C) as shown.

NOTE: Holes in bottom flange may be round or square.

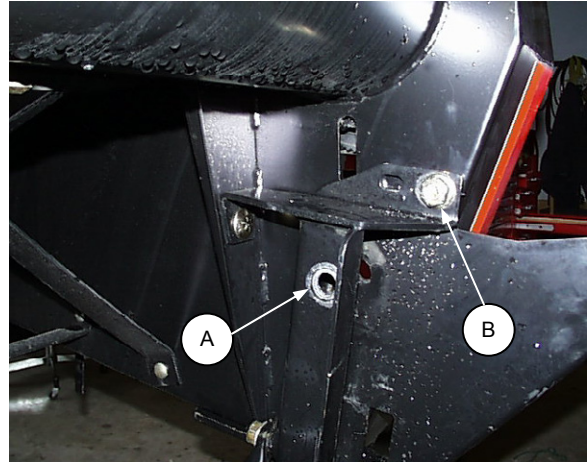
* These holes will be present on headers built in Model Year 2001 and later.



SET-UP INSTRUCTIONS

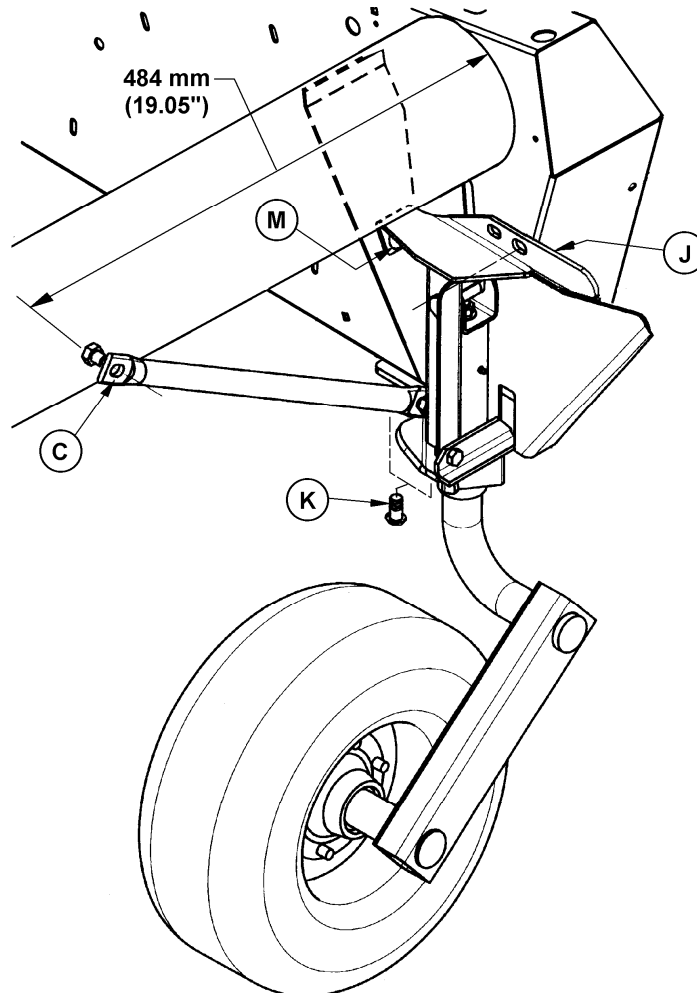
RIGHT END (REAR) WHEEL (continued)

2. Attach right wheel assembly at the two holes drilled in Step 1, using 5/8 x 1-1/4 carriage head bolts at (K) (heads down) and 5/8 flange nuts. Secure at gusset under frame tube with 5/8 x 1-1/4 carriage head bolt (M) and flange nut.
3. Drill a 0.812" diameter hole in the endsheet, using the hole (A) in wheel assembly as a guide. (Disassemble as required for fit-up.) This hole will be present on headers built in Model Year 2001 and later.
4. Mark the position for hole (B) as follows:
For double sickle drive headers: Use the rear hole in support (J) as shown.
For single sickle drive headers: Use the forward hole in support (J).



RIGHT ENDSHEET HOLES – DOUBLE SICKLE HEADER SHOWN

- Drill a 0.750" diameter hole. This hole will be present on headers built in Model Year 2001 and later.
5. Position brace tube so that hole (C) is 484 mm (19.05") from right endsheet as shown. Mark this position and tack weld a 5/8 x 1 inch black bolt from kit to main tube. Position brace onto bolt and confirm proper bolt position, then remove brace from bolt and place a 5 mm (3/16") weld completely around bolt head.

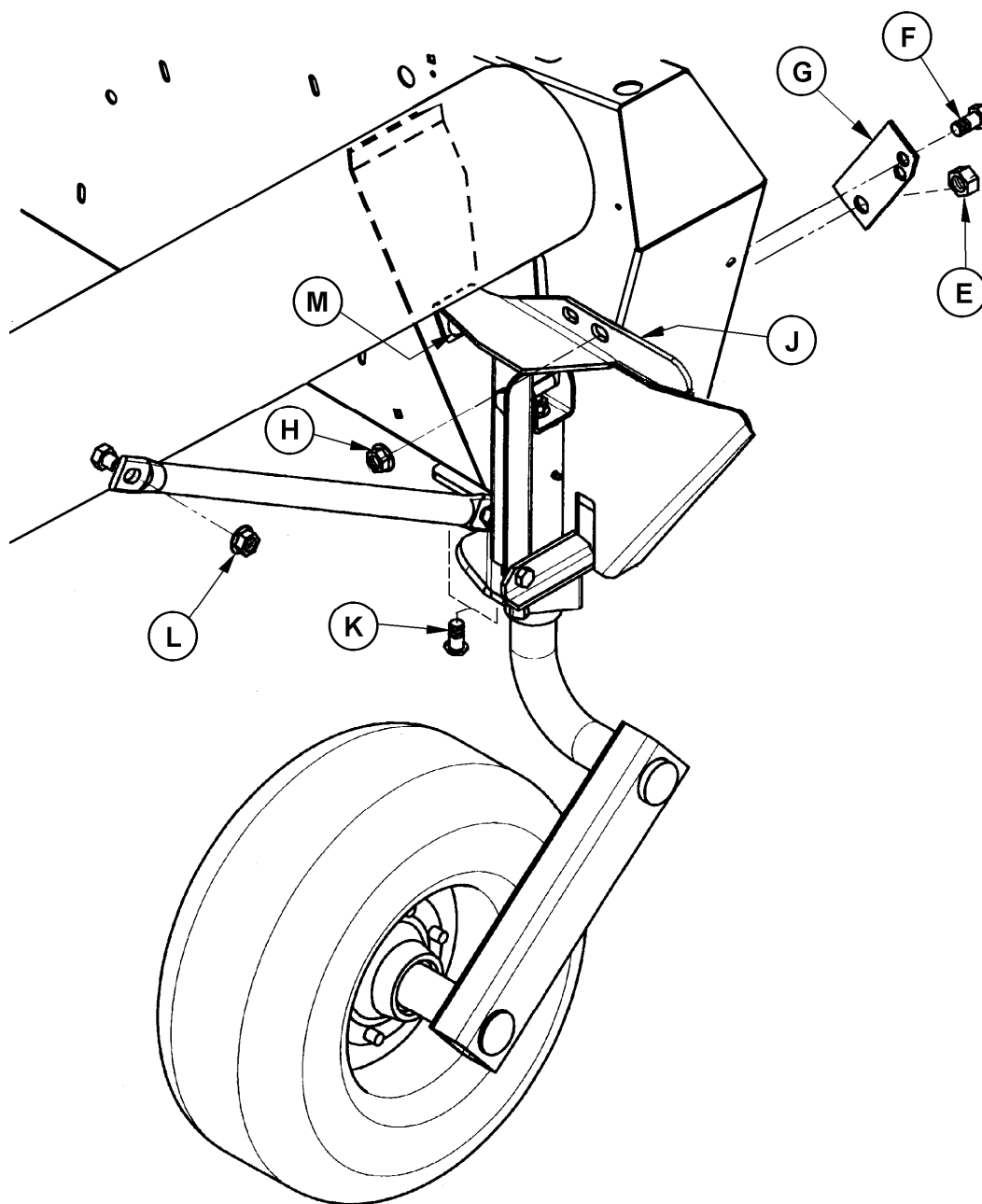


RIGHT ENDSHEET HOLES & WELDED BOLT

SET-UP INSTRUCTIONS

RIGHT END (REAR) WHEEL (continued)

6. Install right wheel assembly as shown below:
- Install 3/4 x 4-1/2" hex head bolt through wheel assembly and new 0.812" hole in endsheet. Position plate (G) on outside face of endsheet and secure with 3/4 nut (E).
NOTE: If necessary, elongate hole in endsheet horizontally as required to fit.
 - At new 0.75" hole in endsheet, install 5/8 x 1-1/4 hex head bolt (F) and secure with nut (H).
NOTE: For double sickle drive headers use top hole in plate (G) and rear hole in support (J) as shown. For single sickle drive headers, use lower hole in plate (G) and forward hole in support (J).
 - At bolt welded to frame tube, use one 5/8 flange nut (L) to secure brace tube.

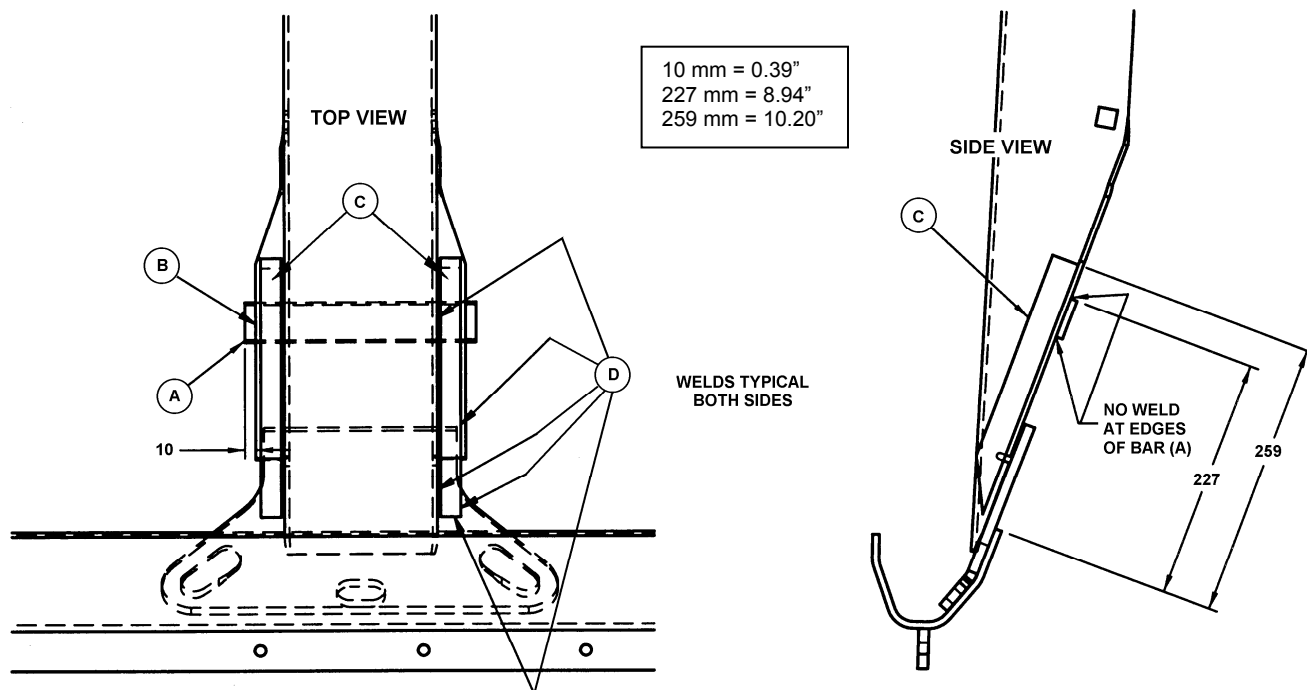


RIGHT WHEEL ASSEMBLY

SET-UP INSTRUCTIONS

FRONT (CUTTERBAR) WHEEL

1. At right hand header leg, remove skid shoe, if installed.
 2. Weld rectangular bar (A) across bottom of leg, using a 5 mm (3/16") weld on top surface (B) both sides as shown below. Ensure there is no weld at edges.
 3. Weld two cropped bars* (C) to sides of leg, with crop towards cutterbar as shown below. Use a 5 mm (3/16") weld at edges (D), both sides.
- * These welded bars (C) will be present on headers built in Model Year 2001 and later.



R/H LEG MODIFICATIONS

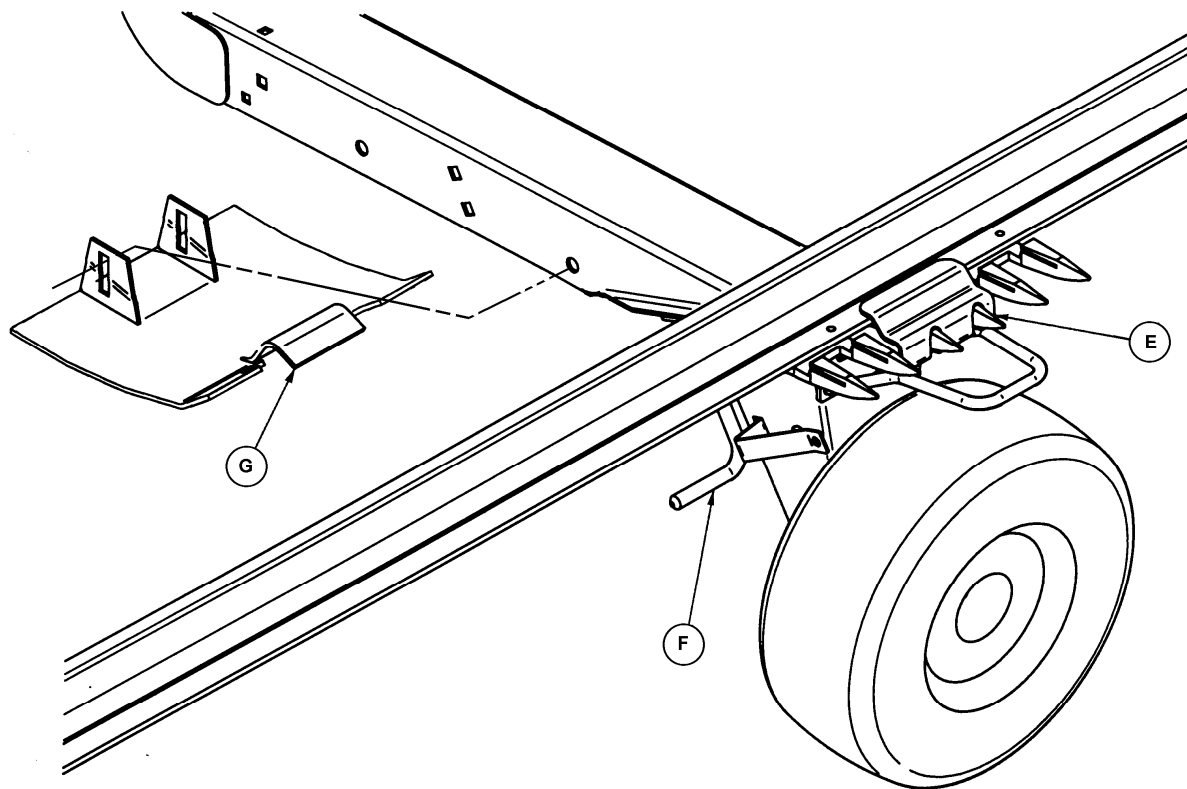
SET-UP INSTRUCTIONS

FRONT (CUTTERBAR) WHEEL (continued)

4. Install front wheel assembly as shown below.

- Install wheel assembly over guard tips (E) at right header leg.
- Ensure clamp is seated up inside leg.
- Operate lever (F) to engage clamp on leg plate.
- If leg mounted skid shoes are required, install new shoe (G) (with higher front lip) from kit at right header leg.

NOTE: Leg mounted skid shoes can not be installed when combine adapter is installed.

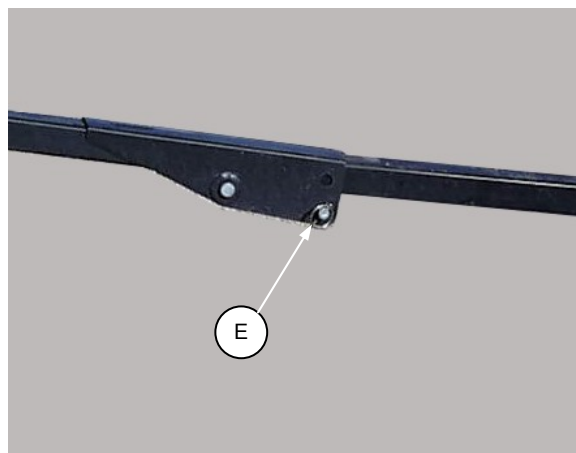


FRONT WHEEL ASSEMBLY

SET-UP INSTRUCTIONS

HITCH

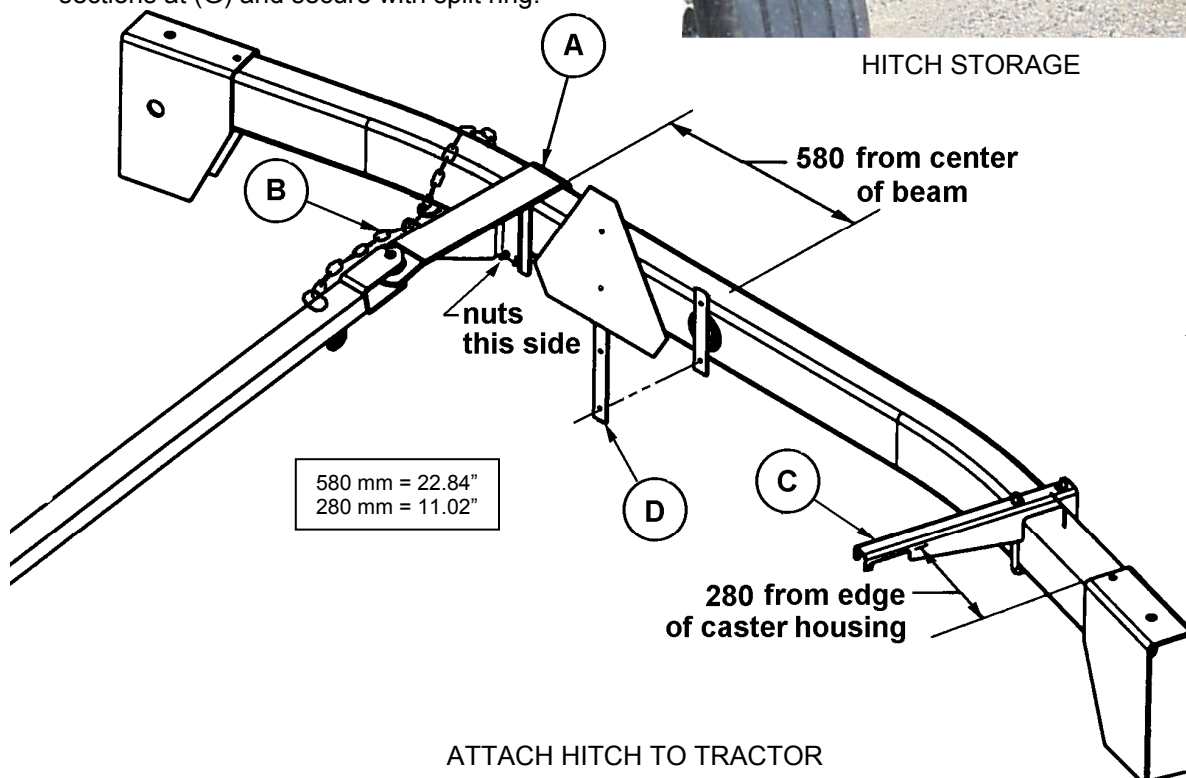
1. Slide bracket (A) over walking beam and position as shown below. Secure with two 5/8 x 5-1/2" hex head bolts and flange nuts.
2. Route hitch chain (B) through chain support on bracket (A), then wrap around walking beam and lock hook on chain.
3. Position storage bracket (C) as shown below and secure with U-bolt and 1/2 NC flange nuts.
4. Remove SMV sign from welded mount. Attach extension bar (D) to welded mount using new self-tapping screws.
NOTE: Use the larger holes in bar (D) to attach to welded mount. It may be necessary to bend the welded mount out slightly.
5. Attach SMV sign to smaller holes in bar (D) using the existing self-tapping bolts removed from welded mount.
6. Remove split ring and remove lock pin from hitch knee joint at (E).
7. Store hitch as follows: Place front section of hitch on top of storage bracket (C) at right side of walking beam. Fold hitch and place rear section into notch in bottom of bracket (C). Install pin from knee joint to lock the two sections at (G) and secure with split ring.



REMOVE LOCK PIN FROM HITCH JOINT



HITCH STORAGE



ATTACH HITCH TO TRACTOR

SET-UP INSTRUCTIONS

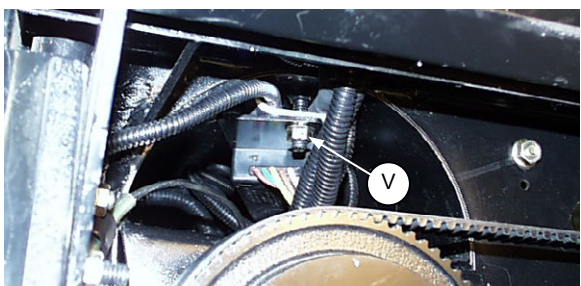
TRANSPORT LIGHTS ON HEADER

1. Open left hand drive shield and route header section of transport wiring harness through inside of frame tube to right endsheet.

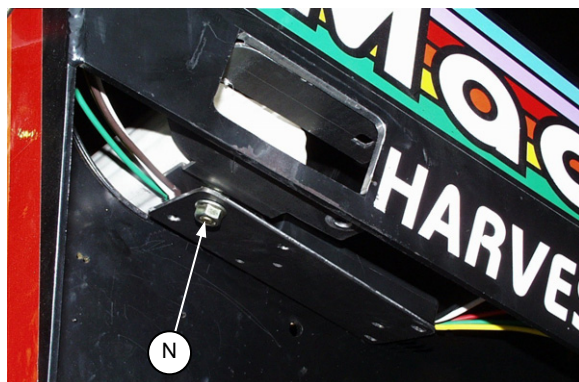
NOTE: The end of the harness with the 6-way connector goes to the right endsheet.

NOTE: For European applications, the lamp module referred to in steps 2 and 3 is not used. Header harness connects directly to end sheet harness.

2. At the R/H end sheet, install lamp module and support as follows: For Single Sickle Headers, Install at (N) with the hardware that secures the sickle storage tube as shown at right. For Double Sickle Headers, install at clamp (V) as shown below.



INSTALL LAMP MODULE – Double Sickle
(EXCEPT EUROPEAN APPLICATIONS)

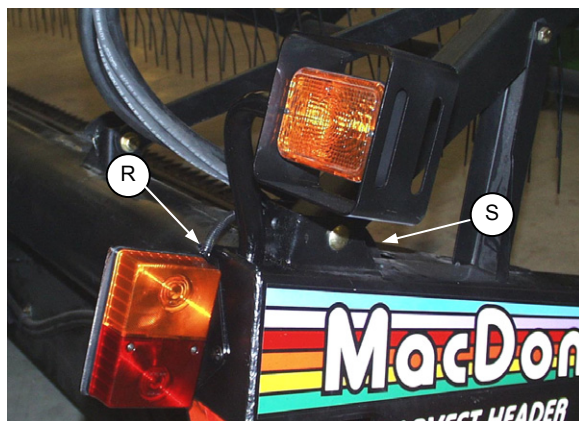


INSTALL LAMP MODULE – Single Sickle
(EXCEPT EUROPEAN APPLICATIONS)

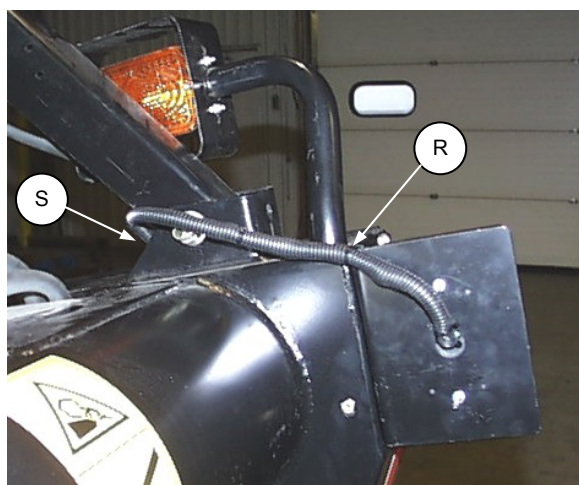
3. Connect header harness and end sheet harness to lamp module. Route end sheet harness to top of end sheet through hole at reel support arm anchor (S).

4. Install lights at R/H endsheet as shown at right, using the hardware that secures the pivoting amber lights. Secure harness with plastic tie at (R). **NOTE:** For European applications, pivoting amber lights are not installed. Install transport lights using hardware provided.

NOTE: Wire colors do not match up when connecting harness to lights. Refer to wiring schematic on Page 15.



INSTALL LIGHTS AT END SHEET



INSTALL LIGHTS AT ENDSHEET

SET-UP INSTRUCTIONS

TRANSPORT LIGHTS ON HEADER (continued)

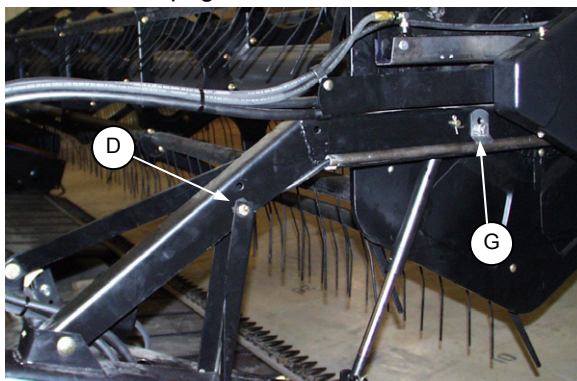
5. Install lights at R/H reel support arm using $\frac{1}{2}$ x 1 inch carriage bolts and flange nuts as shown. Mounting for 2001 and newer headers shown in top photo. For pre-2001 headers, light mount is attached as shown in second photo.

NOTE: For headers with floating divider option, a different light mounting bracket is required. See instructions packaged with dividers.

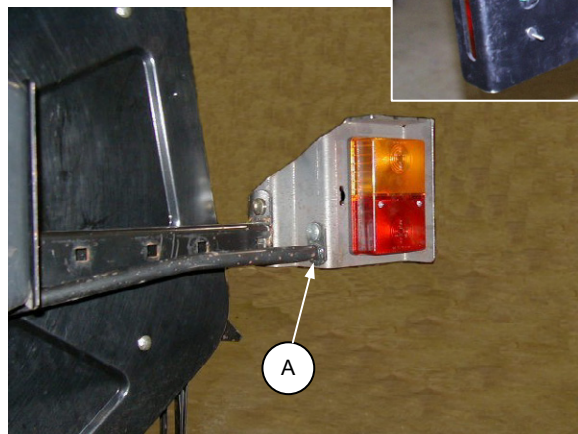
6. For 2001 and newer headers, install harness guard as shown at (A). For pre-2001 header install harness guard as shown at (B).

7. Install harness guard holder (G) on reel arm as shown. Secure holder with $\frac{5}{8}$ x 1 inch hex head bolt and lock nut. Route harness up inside reel support arm and over bolt (D). Pass harness through guard to lights and make the connections. Secure harness with plastic tie at (C) (see inset, top photo).

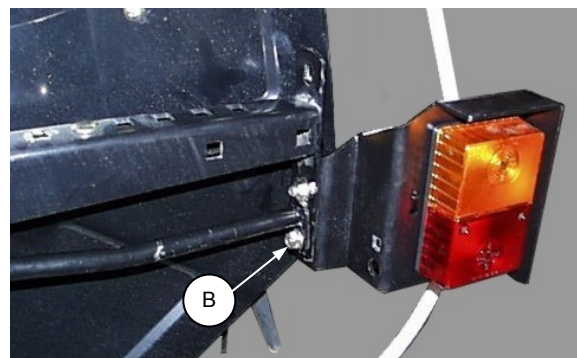
NOTE: Wire colors do not match up when connecting harness to lights. Refer to wiring schematic on page 15.



INSTALL GUARD HOLDER



INSTALL LIGHTS & HARNESS GUARD AT
R/H REEL ARM



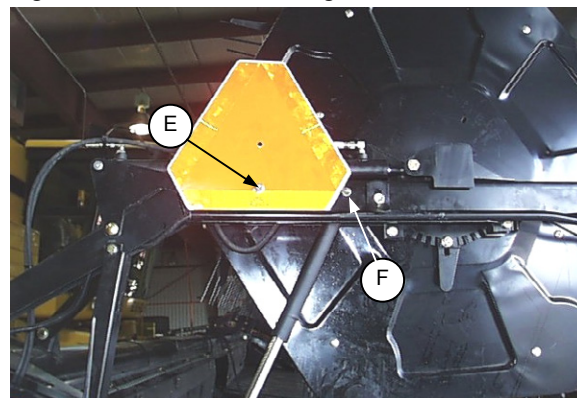
INSTALL LIGHTS & HARNESS GUARD AT
R/H REEL ARM - Pre-2001 Header

8. For single sickle drive headers, attach Slow Moving Vehicle sign with spacer, $\frac{3}{8}$ x $1 \frac{3}{4}$ carriage bolt and flange nut as shown below left.

For double sickle drive headers, drill a 0.406" hole in SMV sign, centered on base and 2.16" (55 mm) from bottom of sign as shown at (E). Also drill a 0.406" hole in RH reel arm located 7 $\frac{1}{2}$ " (190 mm) rearward of reel lift cylinder pin (F), and $\frac{3}{8}$ " (10 mm) above centerline of reel lift cylinder pin (F). Attach sign with spacer, $\frac{3}{8}$ x $1 \frac{3}{4}$ carriage bolt and flange nut as shown below right.



INSTALL SMV SIGN
(SINGLE SICKLE DRIVE HEADERS)

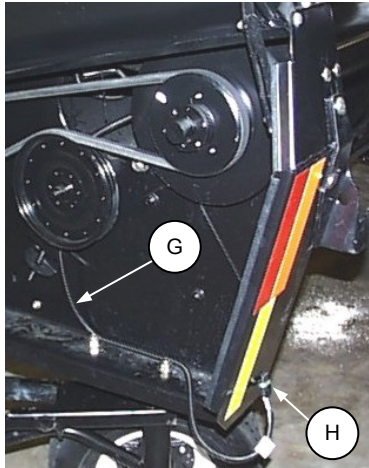


INSTALL SMV SIGN
(DOUBLE SICKLE DRIVE HEADERS)

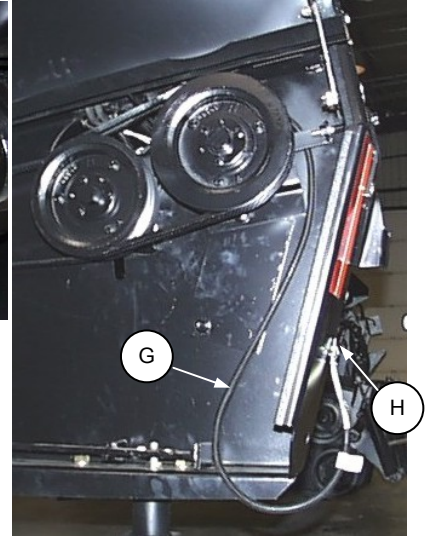
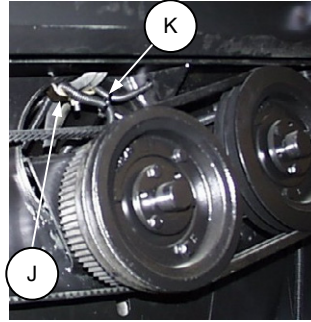
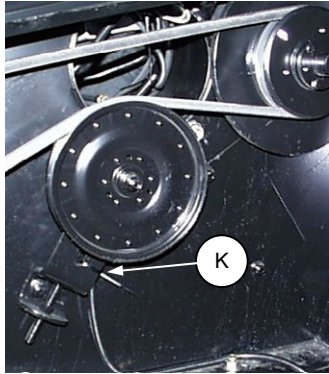
SET-UP INSTRUCTIONS

TRANSPORT LIGHTS ON HEADER (continued)

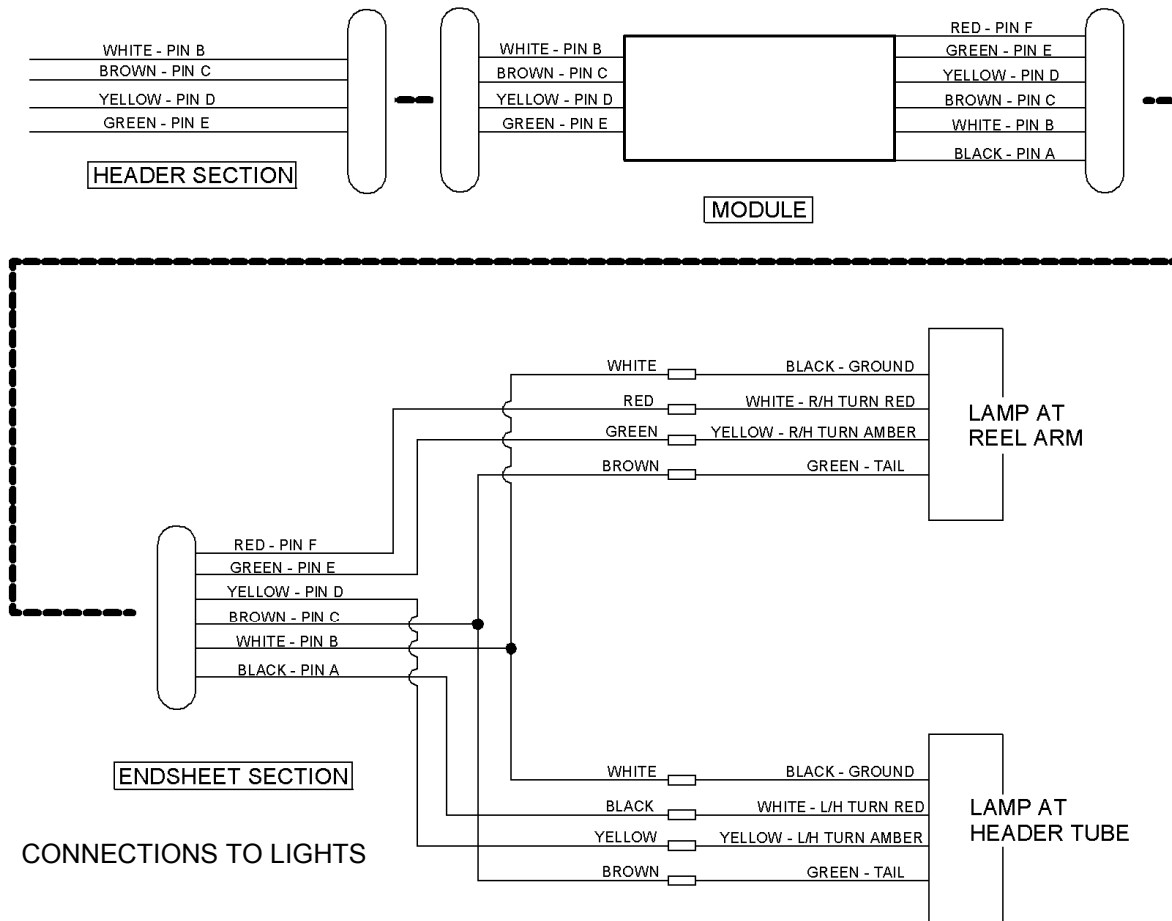
9. At left end, route harness (G) as shown and engage tab of 4-way connector in hole in endsheet at (H) for storage. Ensure harness will reach to hitch section before securing.
10. Secure harness at clamp (J) and cable tie at (K) as shown. Attach harness ground wire at bolt for clamp (J) with 3/8 nut provided.



HEADER HARNESS – LEFT END
SINGLE SICKLE



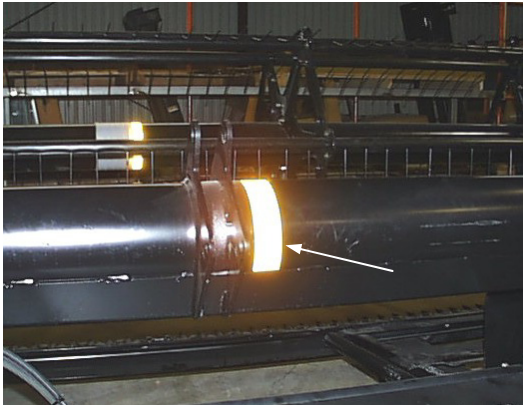
HEADER HARNESS – LEFT END
DOUBLE SICKLE



SET-UP INSTRUCTIONS

REFLECTORS ON HEADER

1. Add eight amber reflectors to header as shown below:



FRAME TUBE AT CENTER OPENING



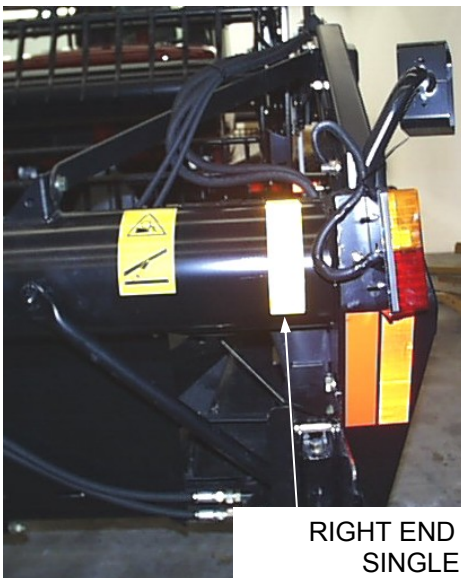
WRAP THREE REFLECTORS
AROUND CENTER OF REEL TUBE



LEFT END – TWO REFLECTORS



RIGHT END – TWO REFLECTORS
DOUBLE SICKLE HEADER



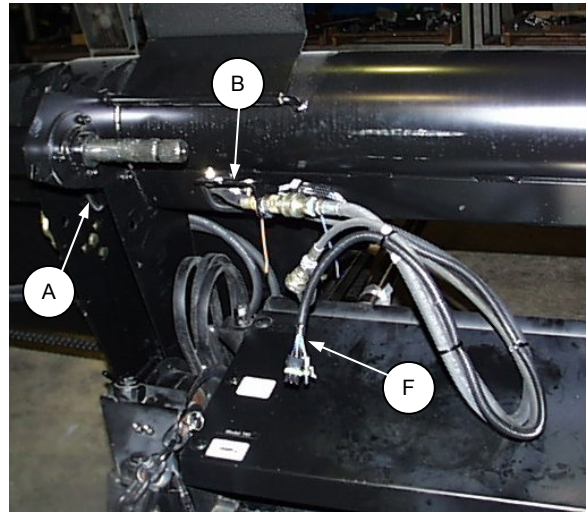
RIGHT END – TWO REFLECTORS
SINGLE SICKLE HEADER



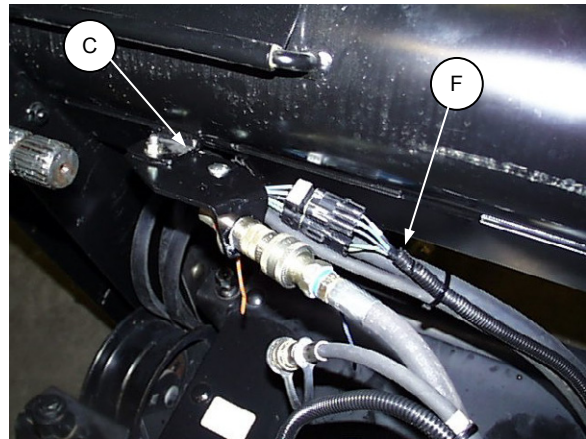
SET-UP INSTRUCTIONS

RE-ROUTE HEADER HOSES AND HARNESS

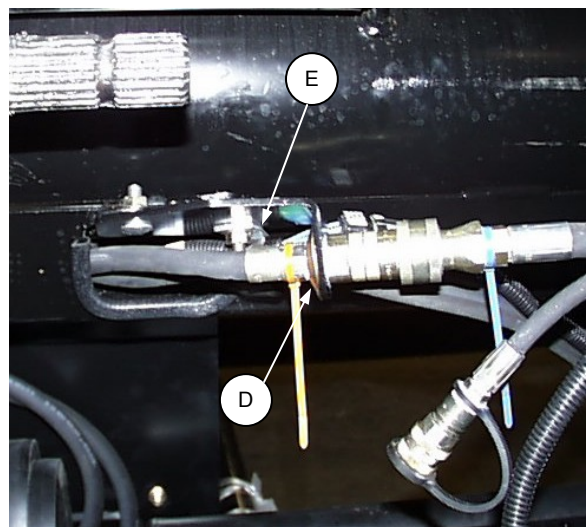
1. At left header leg, remove reel lift hose and header wiring harness from their clamped position at (A). Remove female 1/4" quick coupler from reel lift hose.
2. Re-route reel lift hose and header wiring harness into v-channel under main tube and out rectangular hole at (B). Reinstall quick coupler on reel lift hose.
3. Remove clamp from draper drive hoses at (B).
4. Install new support (C) as shown, using existing hardware. Remove female quick coupler from draper drive hose and install on support (C) with dished washer (D) positioned as shown below. Install insulated clip (E) with 3/8 x 3/4" carriage bolt and flange nut to attach reel lift hose and header wiring harness.
5. Connect harness extension (F) from kit [1200 mm, (48") long] to header harness and tie to draper drive hose and reel lift hose as shown.



HOSE / HARNESS ROUTING



HOSE / HARNESS ROUTING

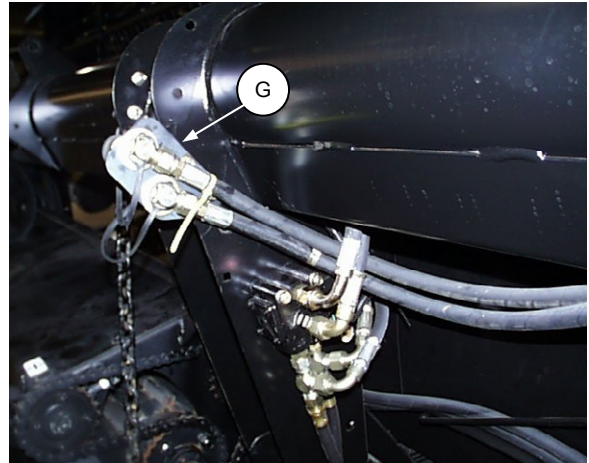


HOSE / HARNESS ROUTING

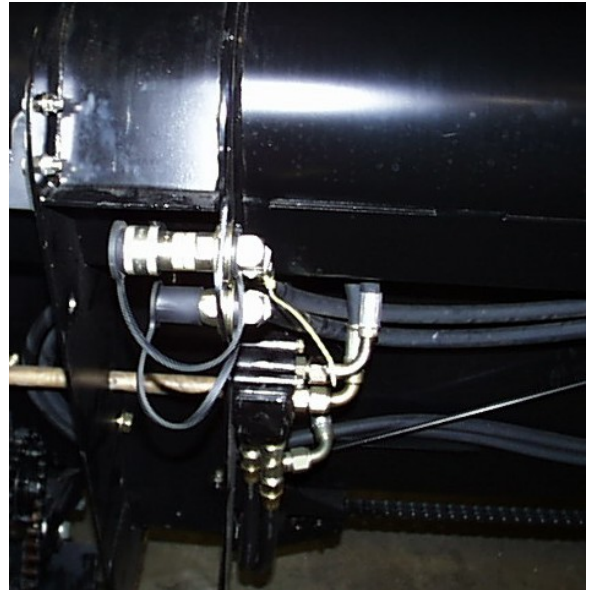
SET-UP INSTRUCTIONS

RE-ROUTE HEADER HOSES AND HARNESS (continued)

6. At right header leg, remove reel drive hoses from the existing mounting bracket. Remove bracket from header.
7. Install hoses on new support (G) and mount support to header leg as shown with two 3/8 x 3/4 carriage bolts and flange nuts (nuts inside leg).



REEL DRIVE HOSE MOUNT



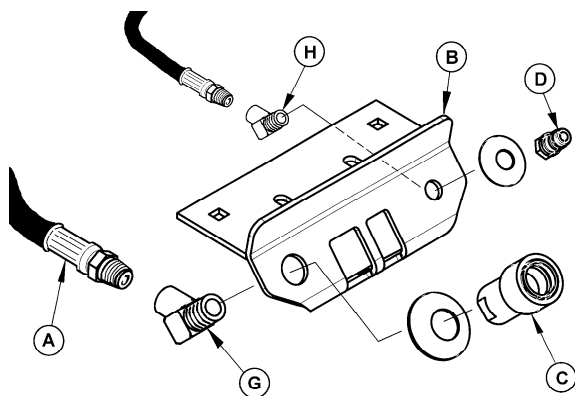
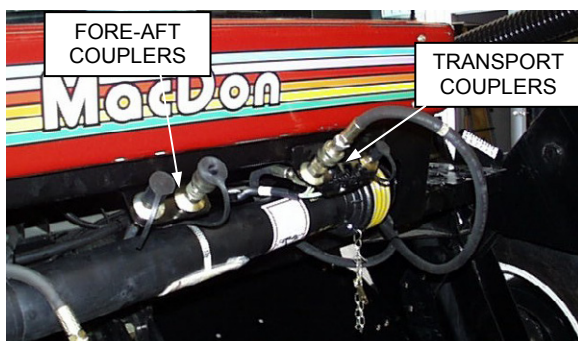
REEL DRIVE HOSE MOUNT

SET-UP INSTRUCTIONS

REPOSITION TRACTOR HOSES & HARNESS

1. Remove female coupler from draper drive hose at tractor left side.
2. Install 900 mm (35") long hose (A) where coupler was removed. Use existing dished washer between hose (A) and bracket.
3. Attach 1/2 NPT 45° elbow (G) to hose (A).
4. Position new bracket (B) on tractor as shown at right and tighten bolts to clamp in place.
5. Attach female coupler (C), removed above, to hose (A) at new bracket, using dished washer between bracket and coupler as shown.
6. Move reel lift coupler (D) from existing bracket to new bracket. Install 1/4 NPT 45° elbow (H) as shown. Use dished washer between bracket and coupler as shown.
7. Insert two-prong connector (E) from existing tractor wiring harness through smaller hole in bracket. **NOTE:** Three-prong connector (F) is from the tractor section of the transport harness, which will be installed on the next page. When installed, clamp both harnesses to bracket.

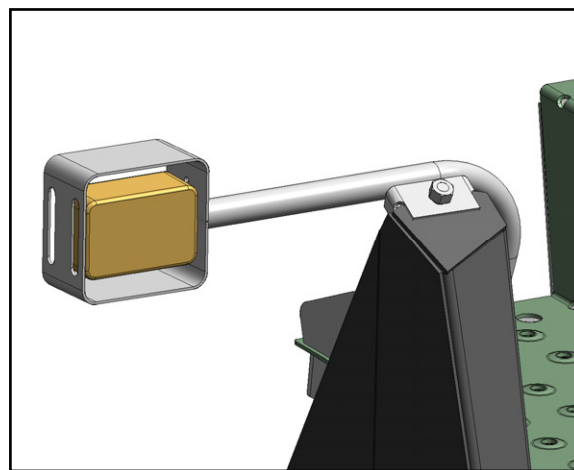
NOTE: If tractor has optional hydraulic reel fore-aft kit installed, move fore-aft coupler mount to inboard set of holes as shown below.



REPOSITION TRACTOR COUPLERS & HARNESS

TRANSPORT LIGHTS ON TRACTOR

1. Bolt lights to left tractor spring anchor as shown.
2. Repeat at right side.

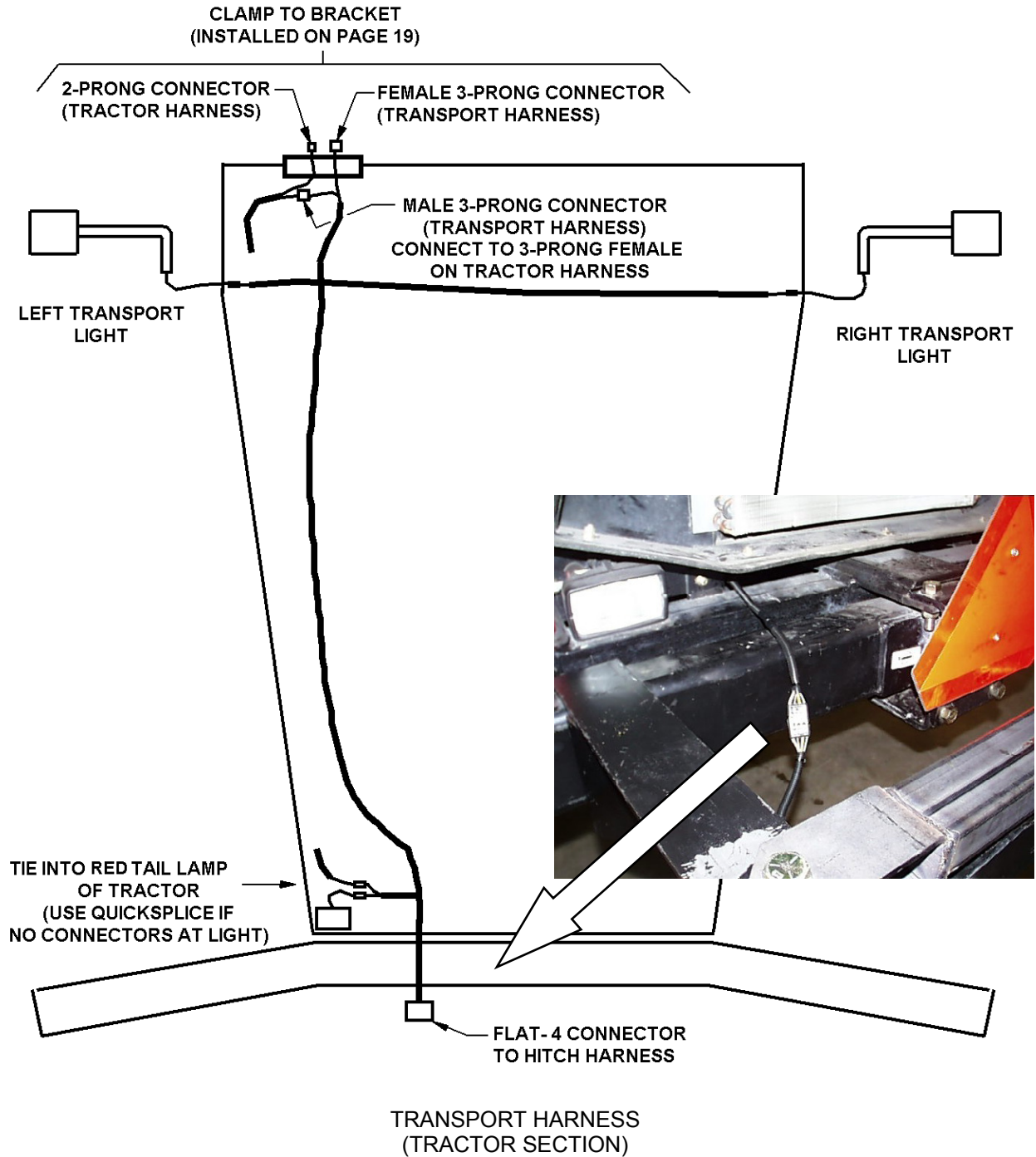


INSTALL TRANSPORT LIGHTS ON TRACTOR

SET-UP INSTRUCTIONS

TRANSPORT HARNESS – TRACTOR SECTION

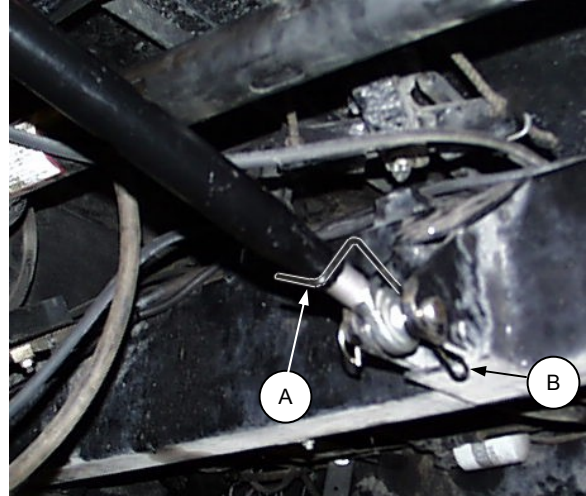
1. Route tractor section of transport wiring harness as shown below. Route over frame cross members along left side of tractor and secure with cable ties for best protection and appearance.
2. Connect harness to hitch harness at rear of tractor



SET-UP INSTRUCTIONS

CENTER LINK CLIP

1. For tractors with mechanical center link, install spring clip (A) as shown at right to retain link in raised position during hook-up.
 - Remove pin from center link at tractor.
 - Install spring (A) as shown (spring outlined for photo clarity).
 - Replace pin through frame bracket, spring coil and center link ball end. Secure with hair pin.
 - Looped end of spring engages under frame plate at (B).



CENTER LINK SPRING CLIP

HAY CONDITIONER STORAGE COMPONENTS

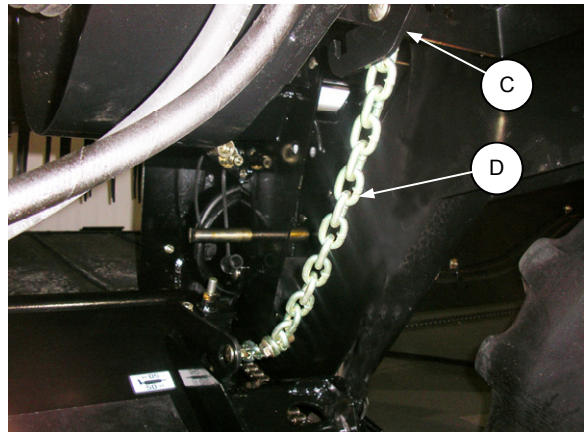
If header has a hay conditioner, install components for support of conditioner during transport and conversion to and from transport.

1. Attach bracket (C) and transfer chain (D) to right hand tractor floorboard as at right. This chain is only used during conversion to and from transport.

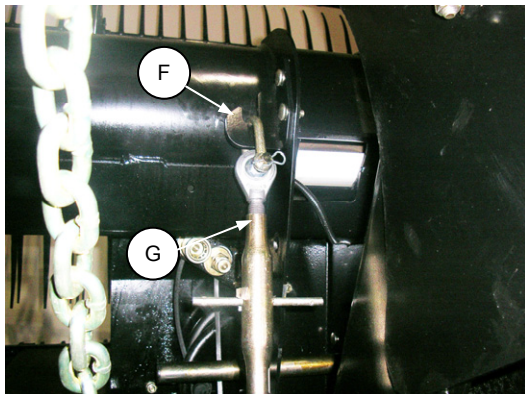
NOTE: For high clearance tractors (XX52 models) add the short extension chain provided to achieve proper length (see Parts Catalog page 50/51 for hardware used).

2. Attach bracket (E) for transfer chain (D) to right side of conditioner top sheet using longer bolts provided as shown below right.

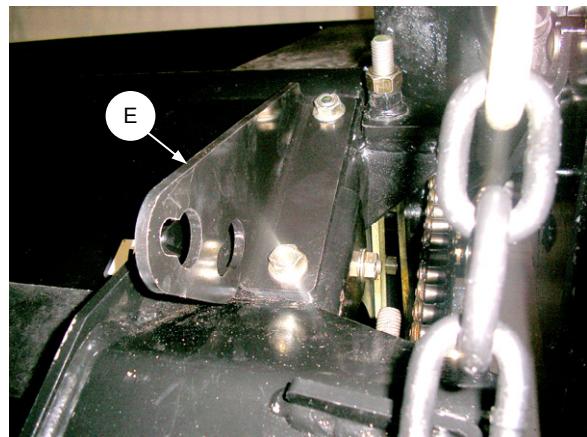
3. Attach bracket (F) to inside of header right leg as shown below. This bracket is used to support conditioner in transport by engaging conditioner support chain (G).



ATTACH TRANSFER CHAIN



SUPPORT CHAIN BRACKET



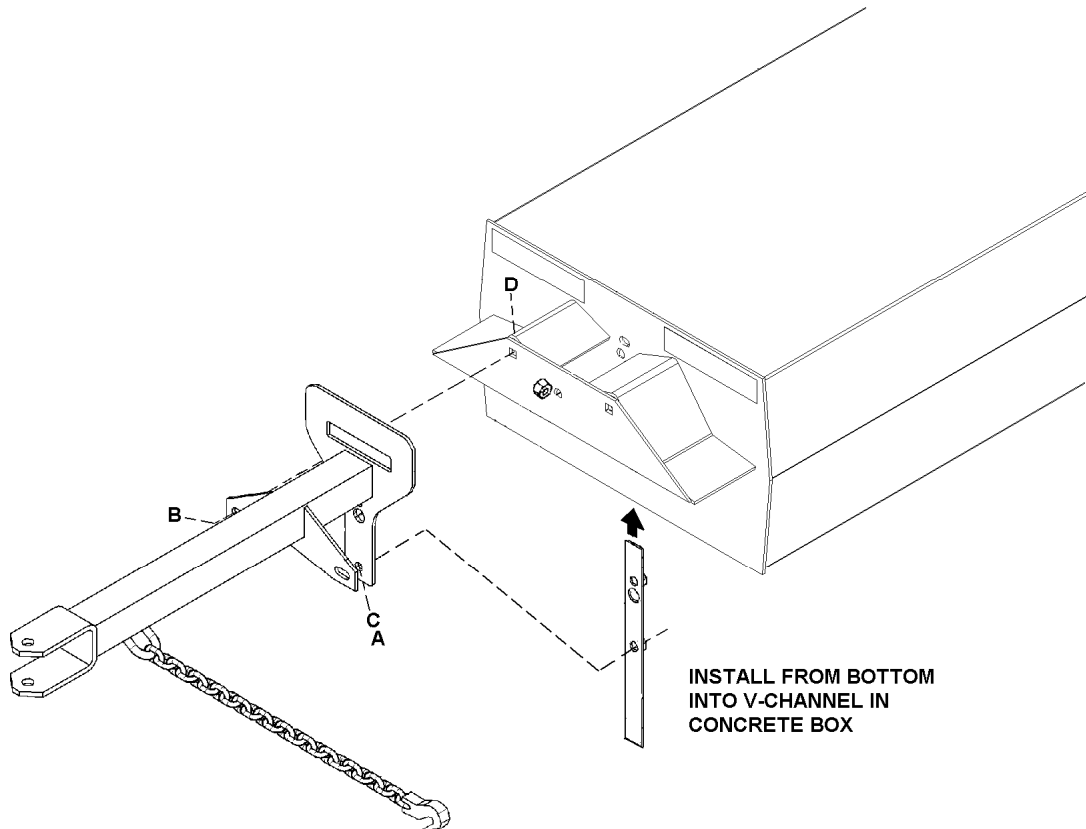
ATTACH TRANSFER CHAIN BRACKET TO CONDITIONER

SET-UP INSTRUCTIONS

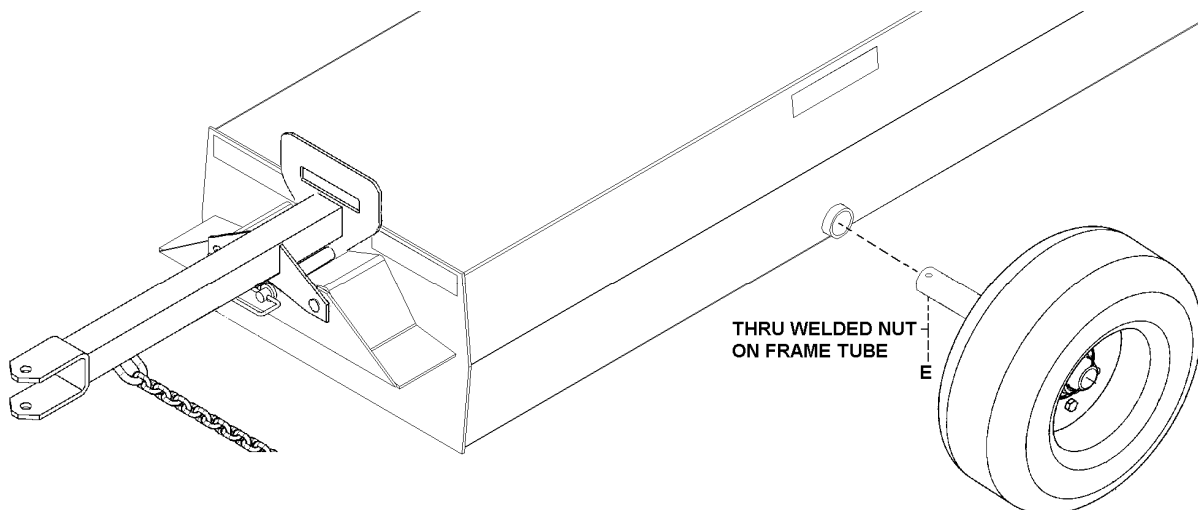
WEIGHT BOX WHEELS & HITCH (OPTION)

For units with the optional wheels and hitch package for the front end weight box:

1. Slide strap (A) into V-channel inside box (accessible from the bottom) and bolt hitch to weight box as shown, using two 5/8 x 1-1/4 hex head bolts (A) and lockwashers (C). **NOTE:** Welded nuts on strap (A) go to the inside.
2. Install two 5/8 x 1-1-4 carriage head bolts (B) and secure with 5/8 flange lock nuts (D) as shown.



3. Slide wheel axles into tubes in weight box and tighten 1/2 x 2 hex head bolts (E) through welded nuts and into axles to secure the assemblies.



TRANSPORT SAFETY

ATTACHING TO TOWING VEHICLE



CAUTION: To avoid bodily injury and/or machine damage caused by loss of control:

1. To ensure adequate braking performance and control, do not tow with a vehicle weighing less than 5000 lbs. (2300 kg).
2. When towing with windrower tractor, weight box **MUST** be installed on front linkage to provide adequate stability and control.
3. To increase header stability in transport, ensure that reel is down and moved back on support arms to the 10th hole from the rear or further. For headers with hydraulic reel fore-aft, never connect the fore-aft couplers to each other. This would complete the circuit and allow the reel to creep forward in transport, resulting in instability.
4. Check that all latches and pins are properly secured in transport position at wheel supports, hitch and cutterbar support.
5. Check tire condition and pressure prior to transporting.
6. If towing with vehicle other than windrower tractor, connect hitch to towing vehicle with a proper hitch pin with a spring locking pin or other suitable fastener.
7. Attach hitch chain to towing vehicle. Adjust chain length to remove all slack except what is needed for turns.
8. Ensure lights are functioning properly, and clean the slow moving vehicle emblem and other reflectors.

TOWING THE HEADER



CAUTION: THIS IS INTENDED AS A LOW SPEED TRANSPORT. To avoid bodily injury and or machine damage caused by loss of control:

1. Do not exceed 19 mph (30 km/h). Reduce transport speed for slippery or rough conditions.
2. Turn corners only at very low speeds [5 mph (8 km/h) or less].
3. Obey all highway traffic regulations in your area when transporting on public roads. Use flashing amber lights unless prohibited by law.

CONVERTING TO TRANSPORT

CONVERTING FROM FIELD POSITION TO TRANSPORT

1. On a level area, stop tractor and engage park brake.



WARNING: To avoid injury or caused by machine tip-over, move reel back on support arms before converting to transport. Do not move reel forward while machine is in transport.

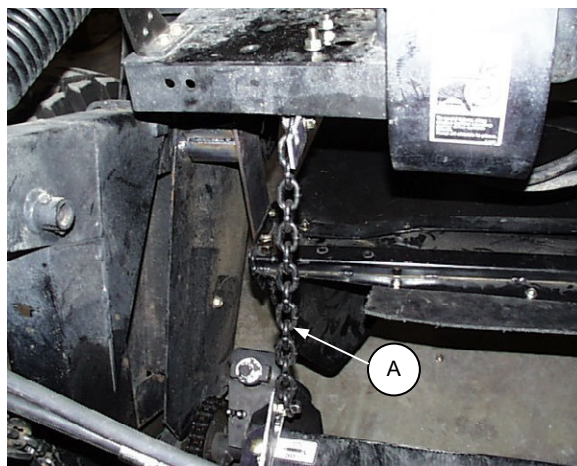
2. Move reel back on support arms to the 10th hole from the rear or further. See "Reel Position - Fore & Aft" in Header Operator's Manual for adjustment details.
3. Lower reel fully. **NOTE:** To prevent damage to reel support arms, do not transport with reel props engaged.
4. Raise header fully.



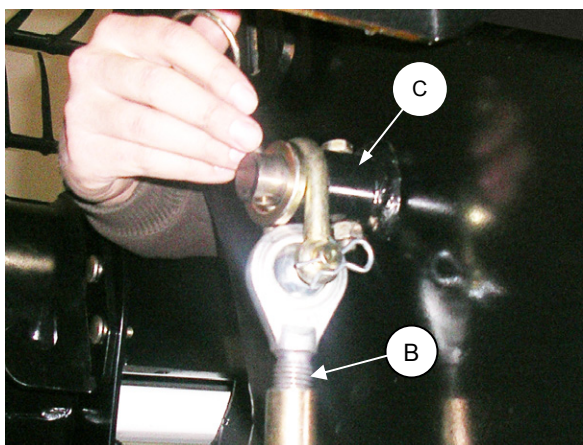
DANGER: To avoid bodily injury or death from unexpected start-up or fall of raised header, stop engine, remove key and engage header lift cylinder stops before going under header for any reason.

NOTE: Steps 5 through 10 are for headers with hay conditioner. For headers without hay conditioner, go to Step 11.

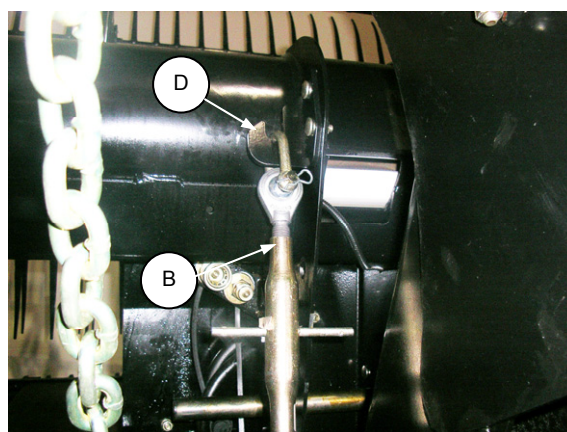
5. Install transfer chain (A) between conditioner and tractor R/H floorboard.
6. Remove header lift cylinder stops and lower header until cutterbar is approximately 4 inches (100 mm) from ground.
7. Move conditioner support chain (B) (the chain attached to conditioner R/H shoe) from pin (C) located on inside of tractor leg to support (D) on header leg.



ATTACH TRANSFER CHAIN



DISCONNECT SUPPORT CHAIN



SUPPORT CHAIN BRACKET ON HEADER

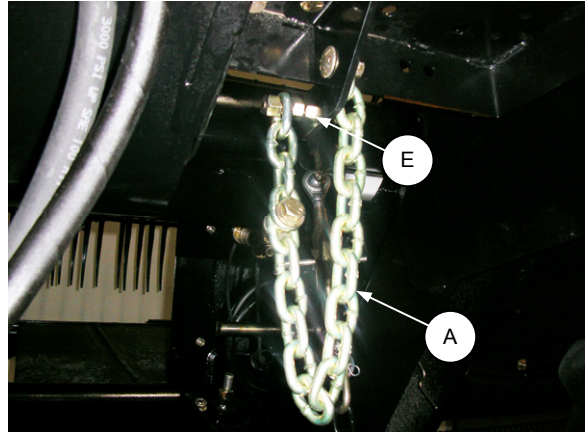
CONVERTING TO TRANSPORT

8. Raise header fully.



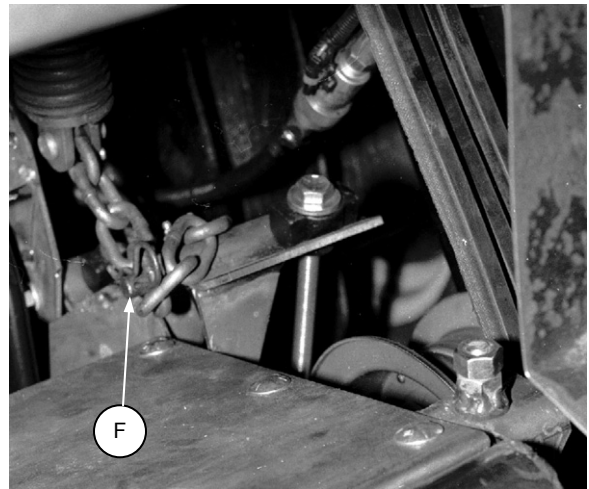
DANGER: To avoid bodily injury or death from unexpected start-up or fall of raised header, stop engine, remove key and engage header lift cylinder stops before going under header for any reason.

9. Remove transfer chain (A) from top of conditioner and store at (E).



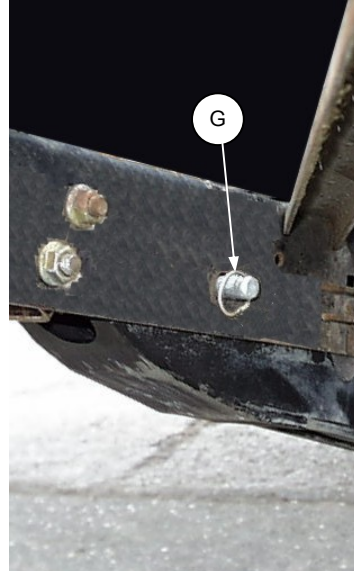
DETACH AND STORE TRANSFER CHAIN

10. Disconnect conditioner float spring chain (F) on left side of conditioner.



DISCONNECT FLOAT SPRING

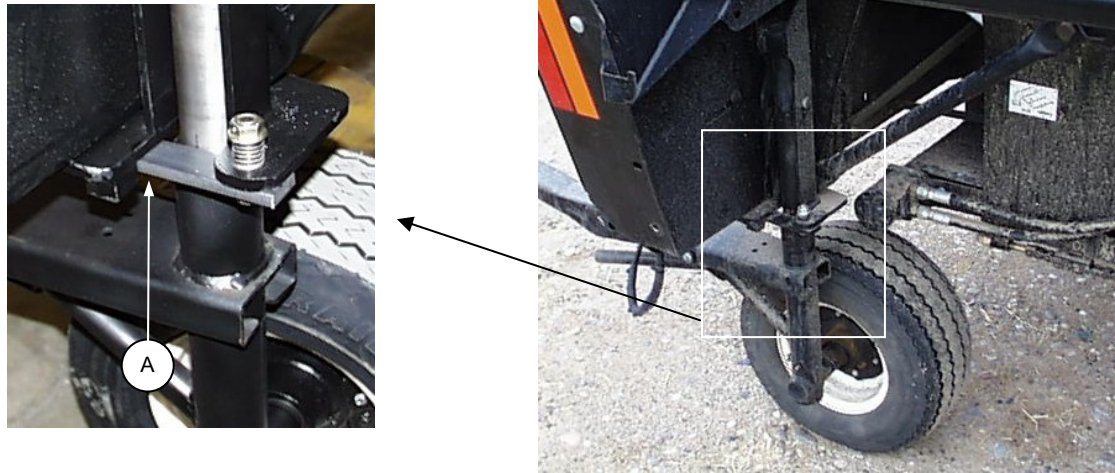
11. Remove pins (G) from lower header legs.



REMOVE LOWER LEG PINS

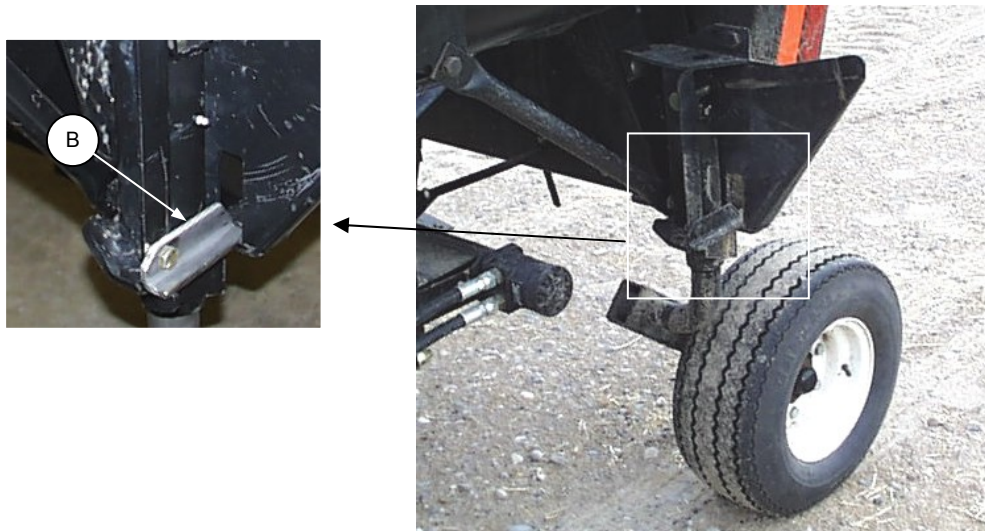
CONVERTING TO TRANSPORT

12. Lower left wheel into transport position and secure latch (A) as shown.



LEFT WHEEL – TRANSPORT POSITION

13. Lower right wheel into transport position and secure latch (B) in notch in plate as shown.

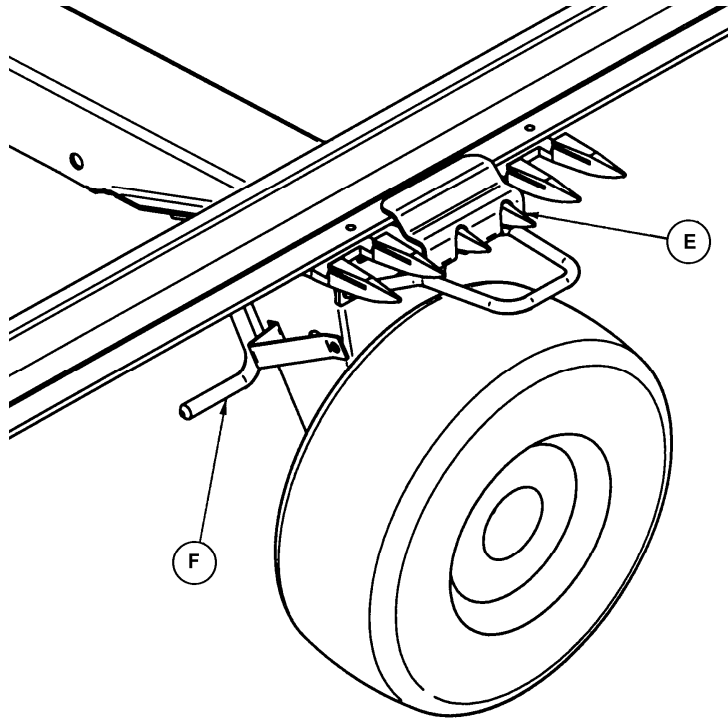


RIGHT WHEEL – TRANSPORT POSITION

CONVERTING TO TRANSPORT

14. Install front transport wheel at cutterbar, aligned with R/H header leg as follows:

- Install wheel assembly over guard tips (E) at right header leg.
- Ensure clamp is seated up inside leg.
- Operate lever (F) to engage clamp on leg plate.



INSTALL FRONT WHEEL AT CUTTERBAR

15. Remove “L” pin (B), both sides and detach float springs.

16. Disengage header lift cylinder stops.

17. Be sure area is clear of bystanders, then start engine. Retract lift cylinders to lower header onto transport wheels.



DETACH FLOAT SPRINGS

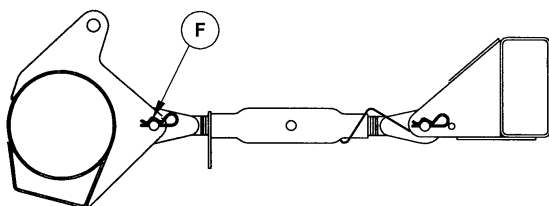
CONVERTING TO TRANSPORT

18. Disconnect driveline from header shaft and store at (A).
19. Disconnect draper drive hoses at left side and couple together at (B) and at header.
20. Disconnect reel lift hose and cap at (C) and at header.
21. For headers with hydraulic reel fore-aft, disconnect hoses and cap lines.



WARNING: For headers with hydraulic reel fore-aft, never connect the header fore-aft couplers to each other. This would complete the circuit and allow the reel to creep forward in transport, resulting in instability.

22. Detach electrical harnesses at (D).
23. Disconnect reel drive hoses at right side. Couple together at (E) and cap at header.
24. Detach center link at header (F). If necessary, adjust length of center link to release load on front pin.

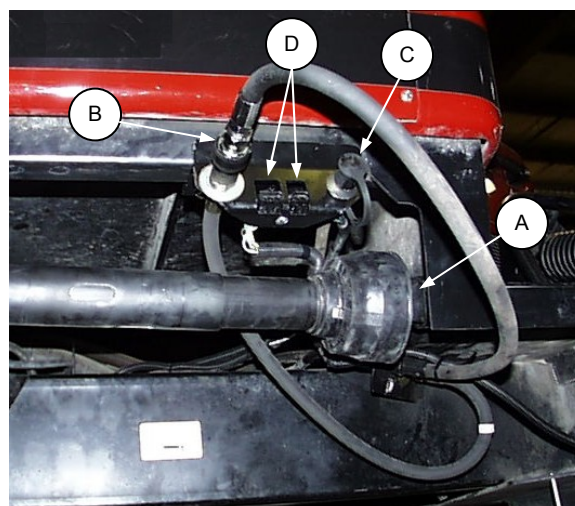


25. Slowly back tractor away from header. If hay conditioner is attached, watch clearances at left and right sides.
26. Remove pins from linkage mounts on weight box. Pick up weight box on tractor lift linkage and raise fully. Install pins (G), ensuring that they engage U-bracket in lift linkage, both sides. Install lynch pin through welded nut and secure with ring of lynch pin over flange on pin (G) as shown.

27. Engage header lift cylinder stops (H).



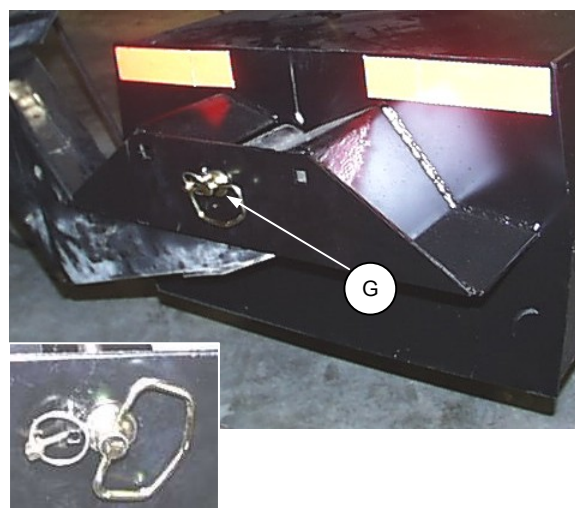
ENGAGE LIFT CYLINDER STOPS



DETACH DRIVELINE, HOSES & HARNESS



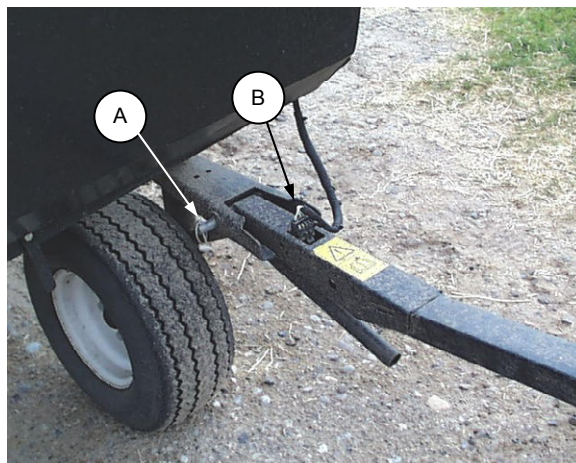
DETACH & STORE REEL DRIVE HOSES



ATTACH WEIGHT BOX TO TRACTOR

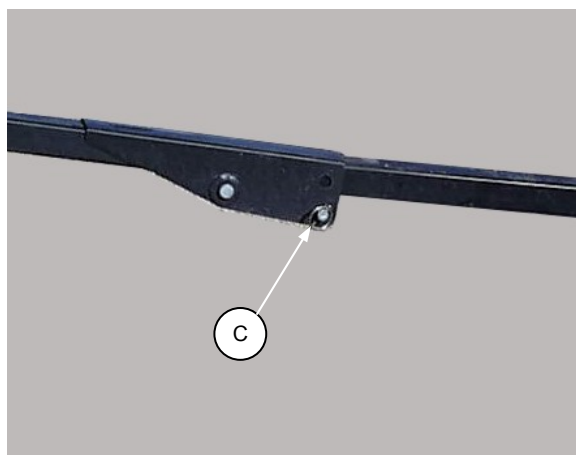
CONVERTING TO TRANSPORT

28. Back the tractor close to the left end of the header.
29. Remove lock pin on tow hitch and swing hitch out from storage position toward header. Attach hitch to left transport wheel support at (A) and secure with split ring.
30. Connect electrical harness from hitch to header at (B).



ATTACH HITCH & CONNECT HARNESS

31. Drive tractor ahead until hitch falls straight.
32. Install lock pin under hitch knee joint at (C) and secure with split ring.
33. Do a walk-around check on the following items:
 - ☐ Front wheel lock engaged.
 - ☐ Warning lights on tractor and header are clean and working.
 - ☐ Outer wheels latched correctly.
 - ☐ SMV sign, and reflectors on reel, header tube and endsheets are clean and visible.
 - ☐ Hitch pin installed and locked with split ring.
 - ☐ Hitch knee joint pin installed and locked with split ring.
 - ☐ Weight box pins installed and locked with lynch pins.
 - ☐ Header lift cylinder stops engaged.

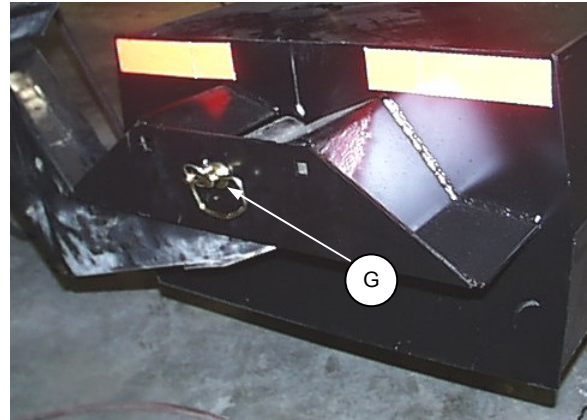


LOCK HITCH JOINT WITH PIN

CONVERTING TO FIELD

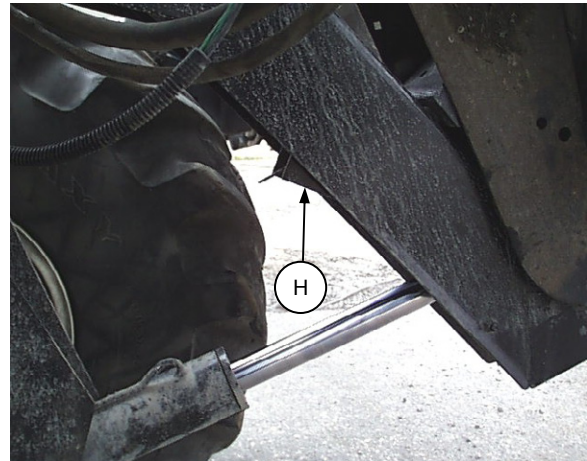
CONVERTING FROM TRANSPORT POSITION TO FIELD

1. On a level area, stop tractor and engage park brake.
2. Remove pins (G) at weight box links, both sides.



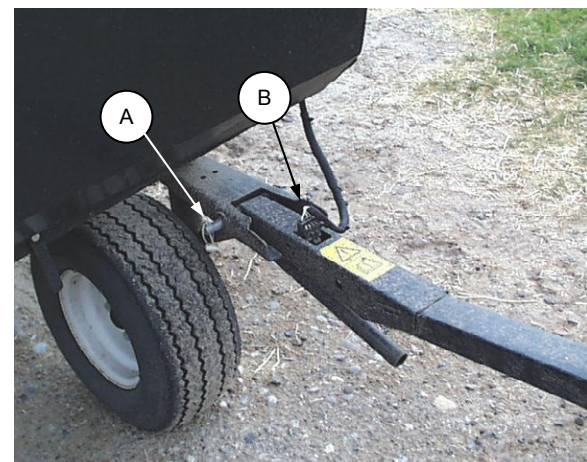
REMOVE WEIGHT BOX PINS

3. Move header lift cylinder stops to storage position (H).



STORE HEADER LIFT CYLINDER STOPS

4. Remove split ring and detach hitch pin at (A).
5. Disconnect wiring harness at (B) and store header harness by engaging clip on 4-way connector in hole on back panel of left endsheet.



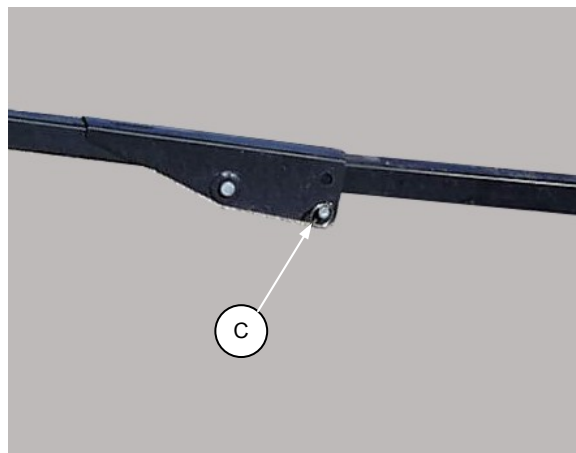
DETACH HITCH & HARNESS



STORE HEADER HARNESS

CONVERTING TO FIELD

6. Remove split ring and remove lock pin from hitch knee joint at (C).



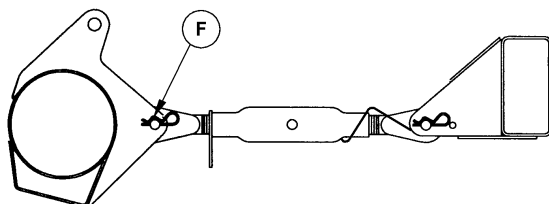
REMOVE LOCK PIN FROM HITCH JOINT

7. Store hitch as follows: Place front section of hitch on top of storage bracket (D) at right side of walking beam. Fold hitch and place rear section into notch in bottom of bracket (D). Install pin from knee joint to lock the two sections at (E) and secure with split ring.
8. Drop weight box off tractor linkage in a suitable, level location. Fully retract header lift cylinders.
9. Slowly drive tractor forward so that lift linkage enters header legs. Continue to drive slowly forward until linkage contact support plate in the lower header leg, and header nudges forward. Stop engine, set park brake and remove key.



HITCH STORAGE

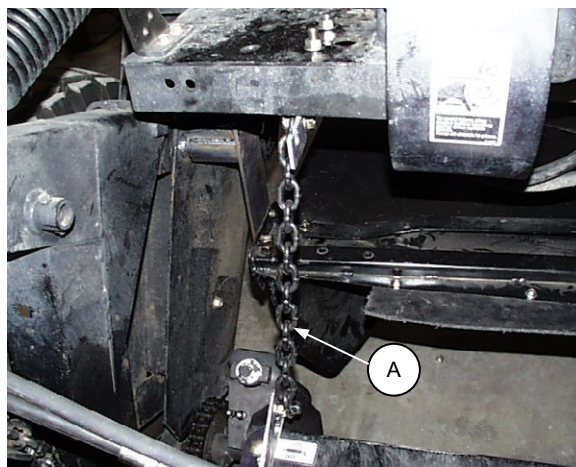
10. Connect center link to header at (F).



11. Connect driveline to header drive shaft.
12. Connect reel lift hose, draper drive hoses and electrical harnesses from tractor to header at left side.
13. Connect reel drive hoses from tractor to header at right side.
14. Raise header fully.

NOTE: Steps 15 through 20 are for headers with hay conditioner. For headers without hay conditioner, go to Step 21.

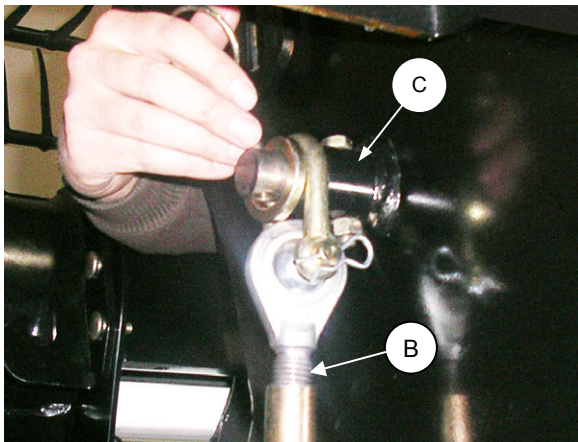
15. Connect conditioner transfer chain (A) to right side of conditioner.



ATTACH TRANSFER CHAIN

CONVERTING TO FIELD

16. Lower header until cutterbar is approximately 4 inches (100 mm) from ground.
17. Move conditioner support chain (B) (the chain attached to conditioner R/H shoe) from support (D) on header leg to pin (C) inside of tractor leg.



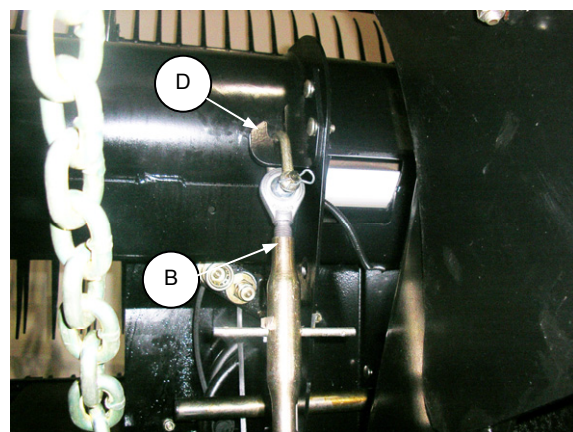
CONNECT SUPPORT CHAIN TO TRACTOR

18. Raise header fully.

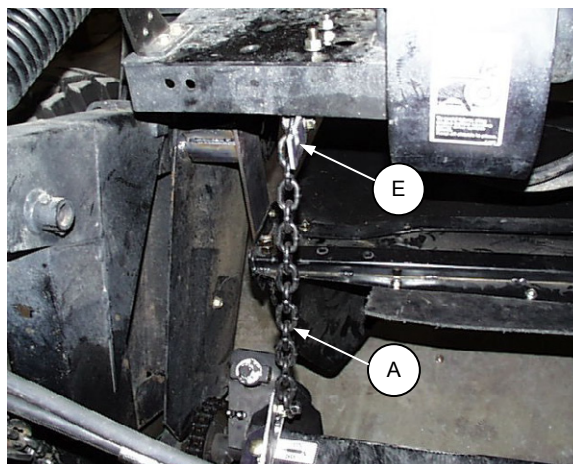


DANGER: To avoid bodily injury or death from unexpected start-up or fall of raised header, stop engine, remove key and engage header lift cylinder stops before going under header for any reason.

19. Remove transfer chain (A) from top of conditioner and store at (E).

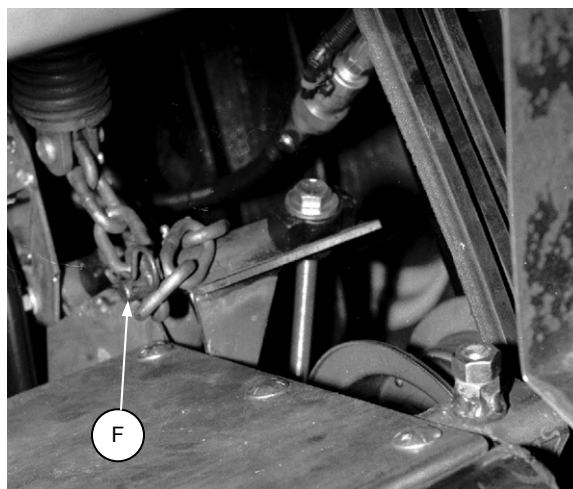


REMOVE SUPPORT CHAIN FROM BRACKET



DETACH AND STORE TRANSFER CHAIN

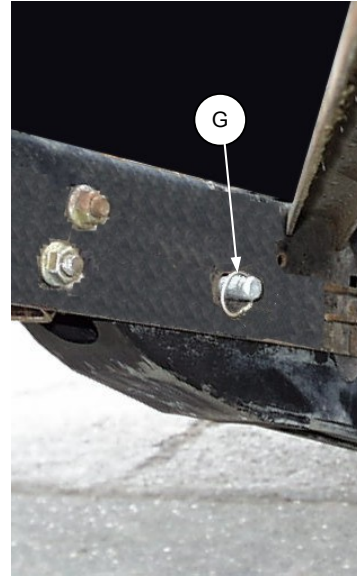
20. Connect conditioner float spring chain (F) on left side of conditioner.



CONNECT FLOAT SPRING

CONVERTING TO FIELD

21. Install pins (G) in lower header legs, engaging U-bracket in tractor lift linkage.



REMOVE LOWER LEG PINS

22. Install “L” pin (B), both sides to engage float springs.



ATTACH FLOAT SPRINGS

23. Raise left transport wheel to field storage position. Install hitch pin, removed in Step 4, at (A) to lock the wheel in storage.

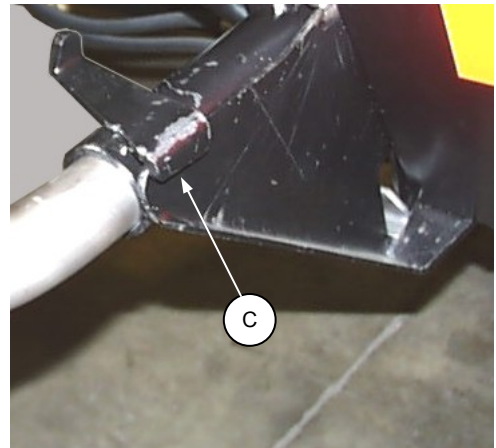


LEFT WHEEL – FIELD STORAGE



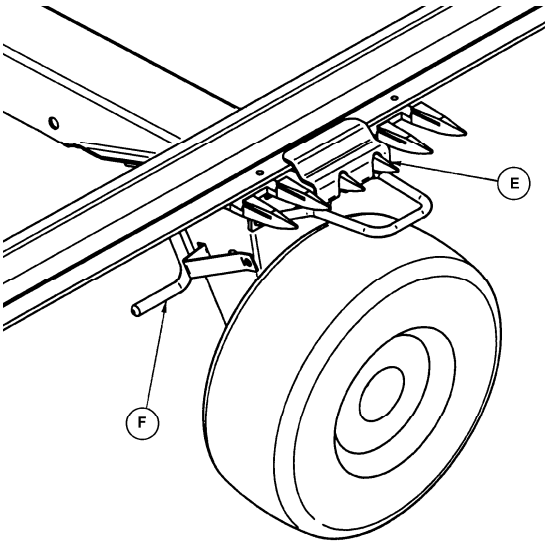
CONVERTING TO FIELD

24. Raise right transport wheel to field storage position, engaging caster tube bracket on thickness of support plate at (C).

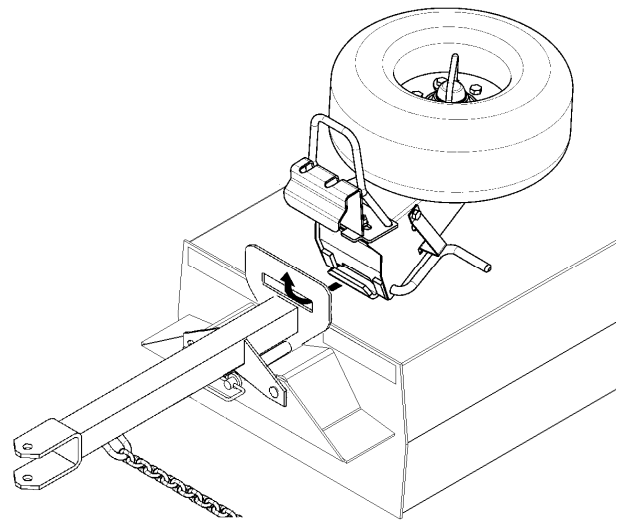


RIGHT WHEEL – FIELD STORAGE

25. Operate lever (F) to release clamp on front wheel and lift off guards (E). For units with optional hitch on weight box, cutterbar wheel may be stored on weight box, engaging cutterbar clamp in slot of hitch handle as shown.



REMOVE FRONT WHEEL FROM CUTTERBAR



FRONT WHEEL STORAGE

26. Move reel forward to desired position.

MAINTENANCE / SERVICE

GREASING: 500 Hours or Annually

Outer Wheel Casters (A) & (B) – two fittings.



Wheel Hub Bearings (C) – three fittings



Optional Weight Box Wheel Hubs (D) – two fittings



MAINTENANCE / SERVICE

Wheel Bolts

Check and tighten wheel bolts after the first 10 hours of operation and every 100 hours thereafter.

Whenever a wheel is removed and re-installed, check torque after one hour of operation.

Maintain torque of 80 to 90 ft.lbs. (110 to 120 N-m)

Follow the proper bolt tightening sequence shown.

NOTE: When installing wheel, be sure valve stem (C) points away from wheel support.



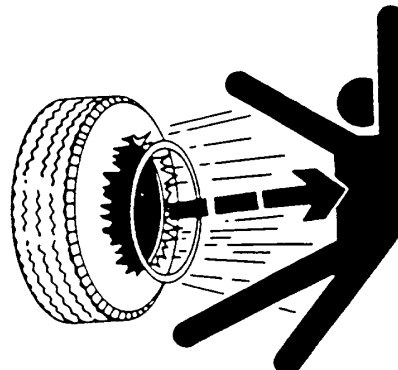
BOLT TIGHTENING SEQUENCE

Tire Inflation

Check tire pressure daily. Maintain 100 psi (690 kPa) on cutterbar tire and 70 psi (480kPa) on L/H and R/H tires.



WARNING: Service tires safely. A tire can explode during inflation and cause serious injury or death. Never increase air pressure beyond 35 psi (241 kPa) to seat the bead on the rim. Replace the tire if it has a defect. Replace a wheel rim, which has cracks, wear or severe rust. Never weld a wheel rim. Make sure all the air is removed from a tire before removing the tire from a rim. Never use force on an inflated or partially inflated tire. Make sure the tire is correctly seated before inflating to operating pressure.

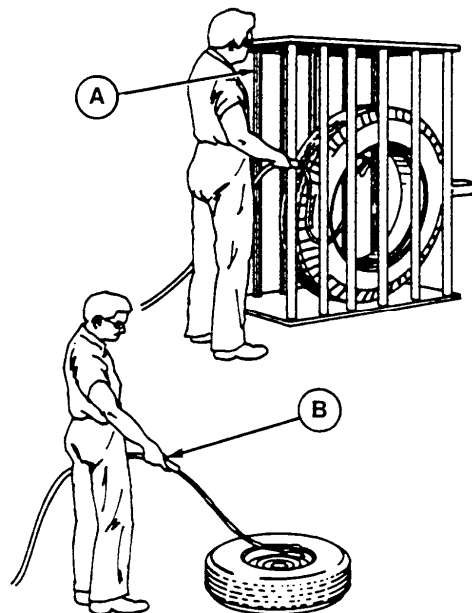


SERVICE TIRES SAFELY

Do not remove, install or make repairs to a tire on a rim unless you have the proper equipment and experience to perform the job. Take the tire and rim to a qualified tire repair shop. If the tire is not in correct position on the rim, or is too full of air, the tire bead can loosen on one side, causing air to leak at high speed and with great force. An air leak of this nature can thrust the tire in any direction, endangering anyone in the area.

(A) - Use a safety cage if available.

(B) - Do not stand over tire. Use a clip-on chuck and extension hose.



**Model 972 Harvest Header
21' & 25' TRANSPORT OPTION
REPAIR PARTS**

CONTENTS

Hitch & Header Transport Lights.....	38, 39
Left Hand Transport Wheel.....	40, 41
Cutterbar Transport Wheel.....	42, 43
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Transport Weight Box	46, 47
Tractor Mounted Transport Parts & Header Hose Supports.....	48, 49
Hay Conditioner Supports	50, 51
Decals	52
Numerical List	53

ABBREVIATIONS

L/H – left hand (Determined from Operator's position, facing forward.)
R/H – right hand
I.D. – inside diameter
O.D. – outside diameter
A/R – as required (quantity varies with header size)

REF – reference, part number called up elsewhere in catalog
SUB – Substitute (Revised design may be used to repair previous design when stock is depleted.)
NC – national coarse thread
NF – national fine thread

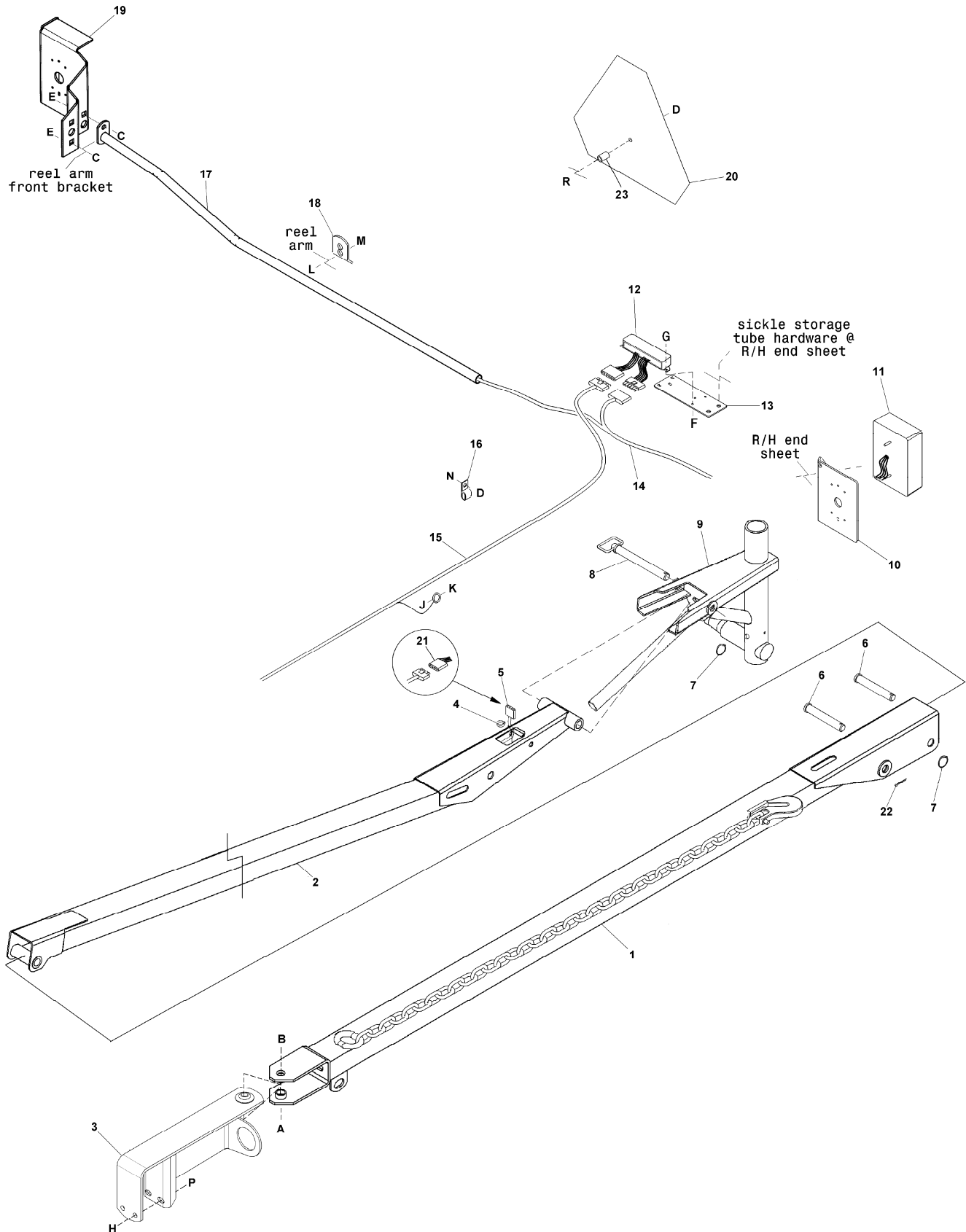
NOTE: Common hardware is not illustrated. Alphabetic references are used to designate position and description of these items. When ordering, be sure the complete and proper serial number is given.

SERIAL NUMBER BREAKS

The side of the serial number on which the dash (-) appears determines whether the part is used “up to” or “after” the serial number given.

Example:	-74924	Used on machines up to and including serial number 74924.
	74925-	Used on machines including and after serial number 74925.

HITCH & HEADER TRANSPORT LIGHTS

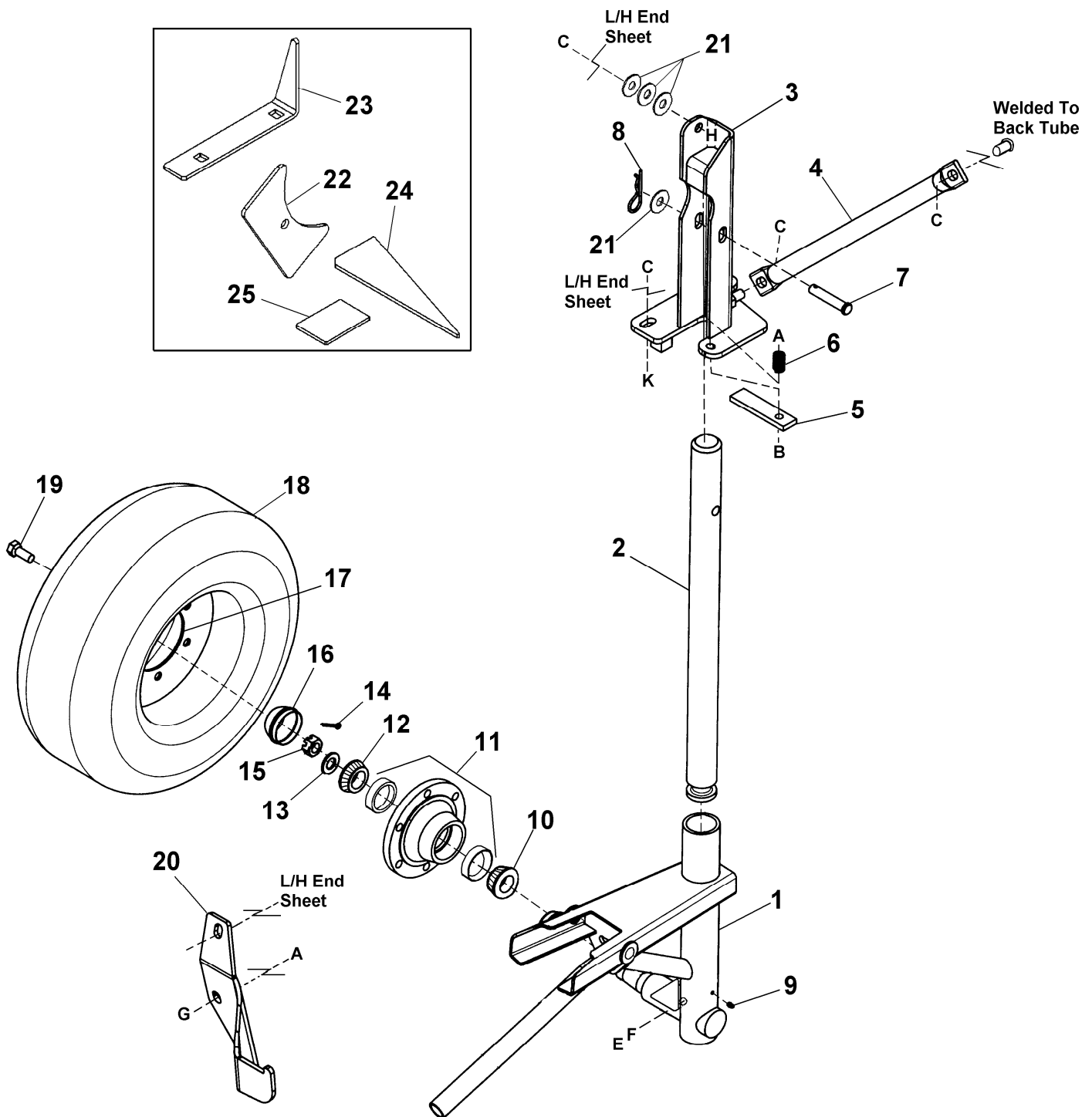


HITCH & HEADER TRANSPORT LIGHTS

REF	PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER
1	131117	HITCH – front.....	1	
2	131001	HITCH – rear.....	1	
3	REF	MOUNT – walking beam to hitch, see Tractor Mounted Transport Parts.....	1	
4	113532	CLAMP – hose.....	1	
5	131128	HARNESS – wiring, hitch section	1	
6	18629	PIN – clevis, 3/4" x 95 mm	2	
7	118137	RING – split.....	2	
8	131043	PIN – hitch, 3/4 x 7 inch	1	
9	REF	CASTER – see Left Hand Transport Wheel	1	
10	113519	SUPPORT – rear lamp	1	
11	113518	LAMP – amber/red, ECE/SAE	2	
12	113579	MODULE – lamp, except European	1	
13	113520	SUPPORT – lamp module, except European.....	1	
14	113524	HARNESS – wiring, module to lamps.....	1	
15	131080	HARNESS – wiring, header section (hitch to module)	1	
16	39272	CLIP – insulated.....	3	
17	113569	GUARD – harness	1	
18	113572	HOLDER – harness guard	1	
19	117056	SUPPORT – front lamp, with amber reflector.....	1	
20	43843	SIGN – slow moving vehicle	1	
21	31061	CONNECTOR KIT – 4-way, includes male and female connectors.....	A/R	
22	18608	PIN – cotter, 3/16" x 1-1/2 inch	1	
23	13710	SPACER – tube	1	
A	30896	BOLT – hex head, 3/4 NC x 3-1/2 inch		
B	102636	NUT – side lock, 3/4 NC		
C	50186	NUT – lock, 1/2 NC, distorted thread		
D	30228	NUT – lock, smooth flange, 3/8 NC distorted thread		
E	21868	BOLT – round head, square neck, 1/2 NC x 1 inch		
F	135020	SCREW – truss head, #8 NC x 3/4 inch		
G	135021	NUT – keps lock, #8 NC		
H	50163	BOLT – hex head, 5/8 NC x 5-1/2 inch		
J	21580	BOLT – hex head, 1/4 NC x 1/2 inch		
K	21455	NUT – serrated flange lock, 1/4 NC		
L	113611	BOLT – hex head, 5/8 NC x 1 inch		
M	18666	NUT – lock, 5/8 NC distorted thread		
N	50076	BOLT – hex head, flange, 3/8 NC x 5/8 inch		
P	50225	NUT – flange, lock, 5/8 NC		
R	50197	BOLT – round head, square neck, 3/8 NC x 1-3/4 inch		

NOTE: For Tractor-mounted lights, see Tractor Mounted Transport Parts, page 48

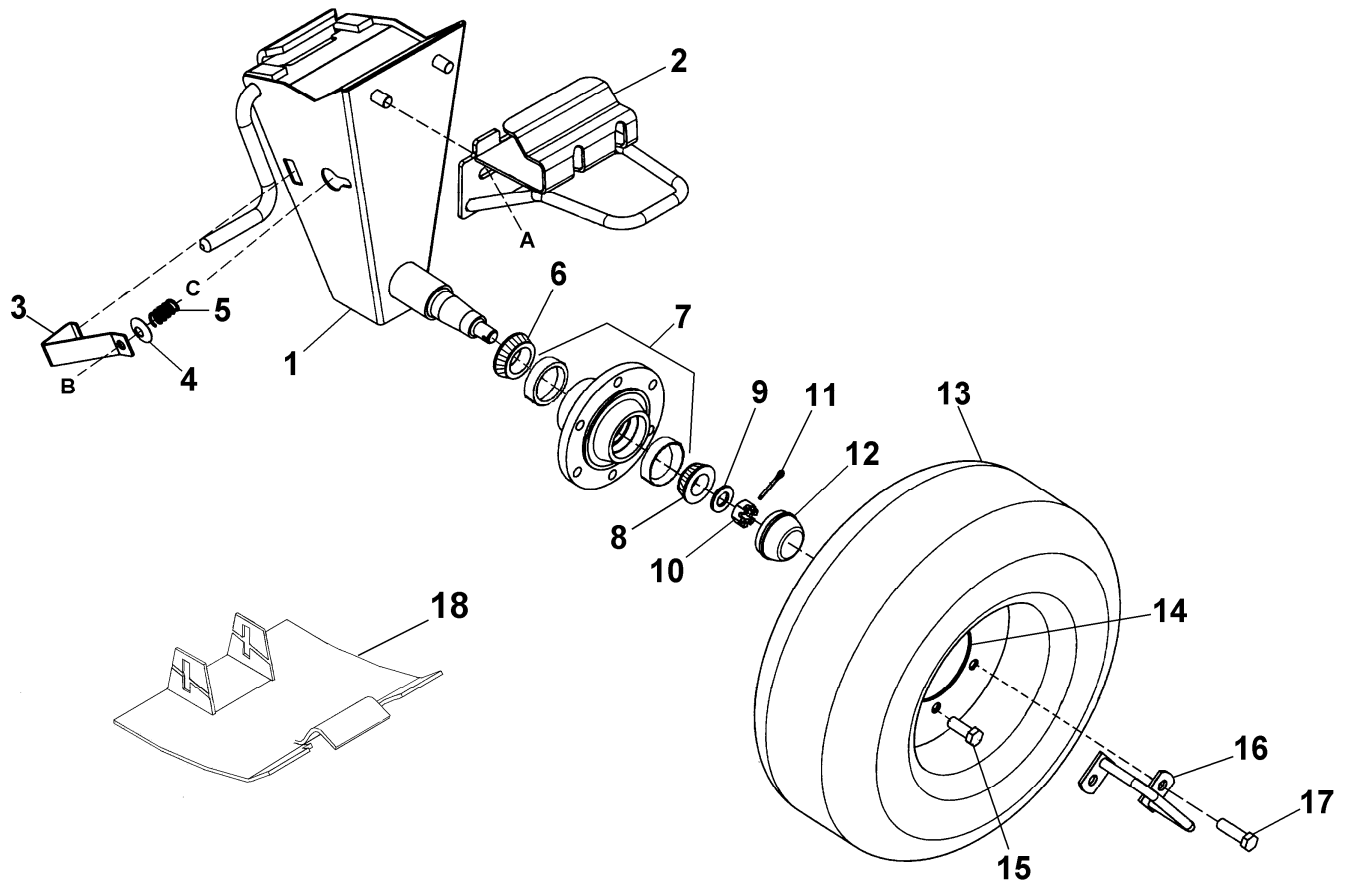
LEFT HAND TRANSPORT WHEEL



LEFT HAND TRANSPORT WHEEL

REF	PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER
1	131012	CASTER – left hand	1	
2	131021	SHAFT – caster, left hand	1	
3	131015	MOUNT – left hand caster.....	1	
4	131022	TUBE – diagonal	1	
5	131023	LATCH – left hand wheel	1	
6	19739	SPRING – latch	1	
7	18624	PIN – clevis, 5/8" x 70 mm	1	
8	13125	PIN – hair.....	1	
9	18671	FITTING – grease, 1/4 –28	1	
10	30517	CONE – bearing, with seal, inner.....	1	
11	41982	HUB – with bearing cups & grease fitting.....	1	
12	21376	CONE – bearing, with seal, outer.....	1	
13	21540	WASHER – hardened	1	
14	18648	PIN – cotter, 3/16 x 1-1/4 inch.....	1	
15	5512	NUT – hex, slotted, 3/4 NF	1	
16	30520	CAP – dust	1	
17	103697	RIM – 10 x 6 x 6	1	
	113020	VALVE STEM	1	
18	103696	TIRE – 20.5 x 8 x 10, 12 ply	1	
19	18916	BOLT – wheel, 9/16-18 NF x 1-1/4 inch.....	6	
20	131024	SUPPORT – storage, left hand wheel.....	1	
21	100200	WASHER – flat	4	
22	129819	PLATE – welded, L/H endsheet (inboard surface)	1	
23	129820	GUSSET – welded, L/H endsheet (outboard surface).....	1	
24	129822	GUSSET – welded, single knife headers (triangular).....	1	
25	128824	GUSSET – welded, double knife headers (square)	1	
A	50186	NUT – lock, flange, 1/2 NC		
B	21578	BOLT – hex head, 1/2 NC x 2-1/4 inch		
C	50225	NUT – lock, flange, 5/8 NC		
E	20077	BOLT – hex head, 3/8 NC x 1 inch		
F	18637	WASHER – lock, 3/8 ID		
G	21868	BOLT – round head, square neck, 1/2 NC x 1 inch		
H	21587	BOLT – hex head, 5/8 NC x 2 inch		
K	103562	BOLT – round head, square neck, 5/8 NC x 1-1/4 inch		

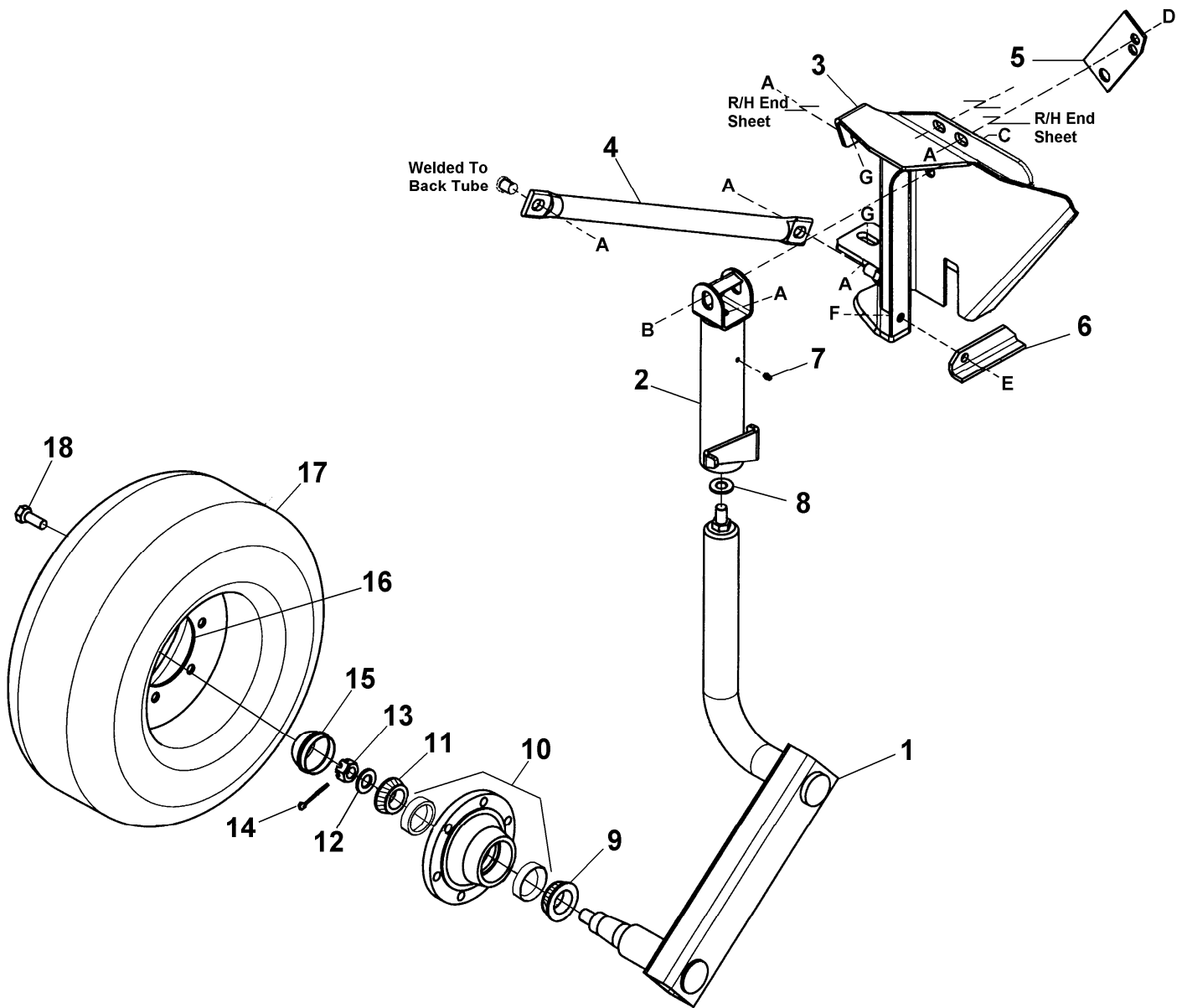
CUTTERBAR TRANSPORT WHEEL



CUTTERBAR TRANSPORT WHEEL

REF	PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER
1	131054	SUPPORT – front wheel	1	
2	131063	SUPPORT – cutterbar	1	
3	131062	LATCH – front wheel	1	
4	45157	WASHER – dished	1	
5	9415	SPRING – latch	1	
6	30517	CONE – bearing, with seal, inner	1	
7	41982	HUB – with bearing cups & grease fitting	1	
8	21376	CONE – bearing, with seal, outer	1	
9	21540	WASHER – hardened	1	
10	5512	NUT – hex, slotted, 3/4 NF	1	
11	18648	PIN – cotter, 3/16 x 1-1/4 inch	1	
12	30520	CAP – dust	1	
13	103696	TIRE – 20.5 x 8 x 10, 12 ply	1	
14	103697	RIM – 10 x 6 x 6	1	
	113020	VALVE STEM	1	
15	18916	BOLT – wheel, 9/16-18 NF x 1-1/4 inch	4	
16	113278	HANDLE – wheel	1	
17	113576	BOLT – wheel handle, 9/16-18 NF x 1-1/2 inch	2	
18	131031	SHOE – skid	1	
A	50225	NUT – lock, flange, 5/8 NC		
B	21565	BOLT – hex head, 1/2 NC x 1-3/4 inch		
C	50186	NUT – lock, flange, 1/2 NC		

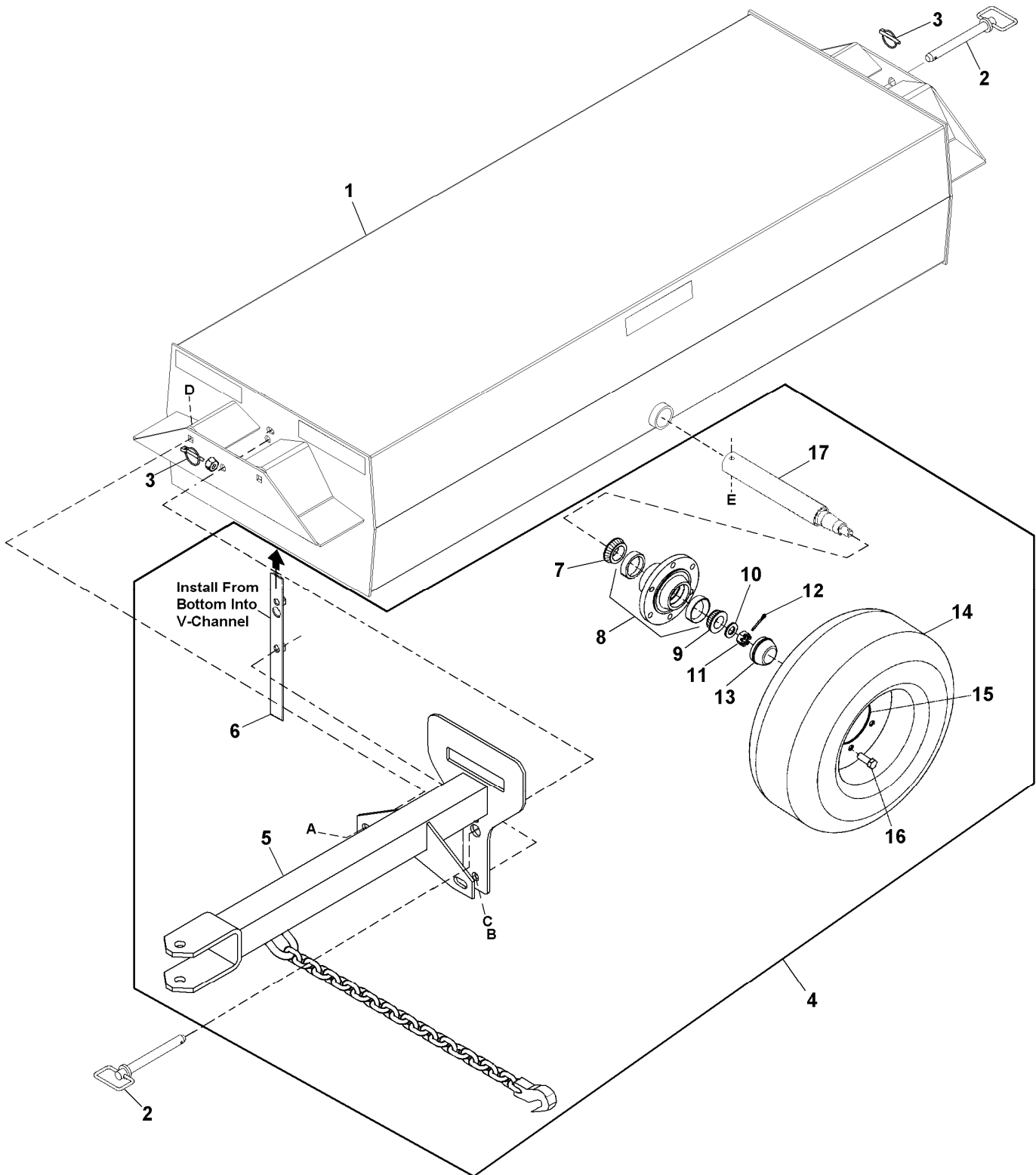
RIGHT HAND TRANSPORT WHEEL



RIGHT HAND TRANSPORT WHEEL

REF	PART NUMBER	DESCRIPTION	QTY 15'/18'/21'/25'	SERIAL NUMBER
1	131092	CASTER – right hand wheel	1	
2	131081	TUBE – pivot, right hand wheel.....	1	
3	131086	MOUNT – right hand wheel.....	1	
4	131022	TUBE – diagonal	1	
5	131090	PLATE – right hand wheel.....	1	
6	131091	LATCH – right hand wheel	1	
7	18671	FITTING – grease, 1/4 –28	1	
8	30441	WASHER – hardened, 5/8 ID	1	
9	30517	CONE – bearing, with seal, inner.....	1	
10	41982	HUB – with bearing cups & grease fitting.....	1	
11	21376	CONE – bearing, with seal, outer.....	1	
12	21540	WASHER – hardened	1	
13	5512	NUT – hex, slotted, 3/4 NF	1	
14	18648	PIN – cotter, 3/16 x 1-1/4 inch.....	1	
15	30520	CAP – dust	1	
16	103696	TIRE – 20.5 x 8 x 10, 12 ply	1	
17	103697	RIM – 10 x 6 x 6	1	
	113020	VALVE STEM	1	
18	18916	BOLT – wheel, 9/16-18 NF x 1-1/4 inch	1	
A	50225	NUT – lock, flange, 5/8 NC		
B	21733	BOLT – hex head, 3/4 NC x 4-1/2 inch		
C	18689	NUT – lock, 3/4 NC		
D	21585	BOLT – hex head, 5/8 NC x 1-1/4 inch		
E	21575	BOLT – hex head, 1/2 NC x 1 inch		
F	50186	NUT – lock, flange, 1/2 NC		
G	103562	BOLT – round head, square neck, 5/8 NC x 1-1/4 inch		

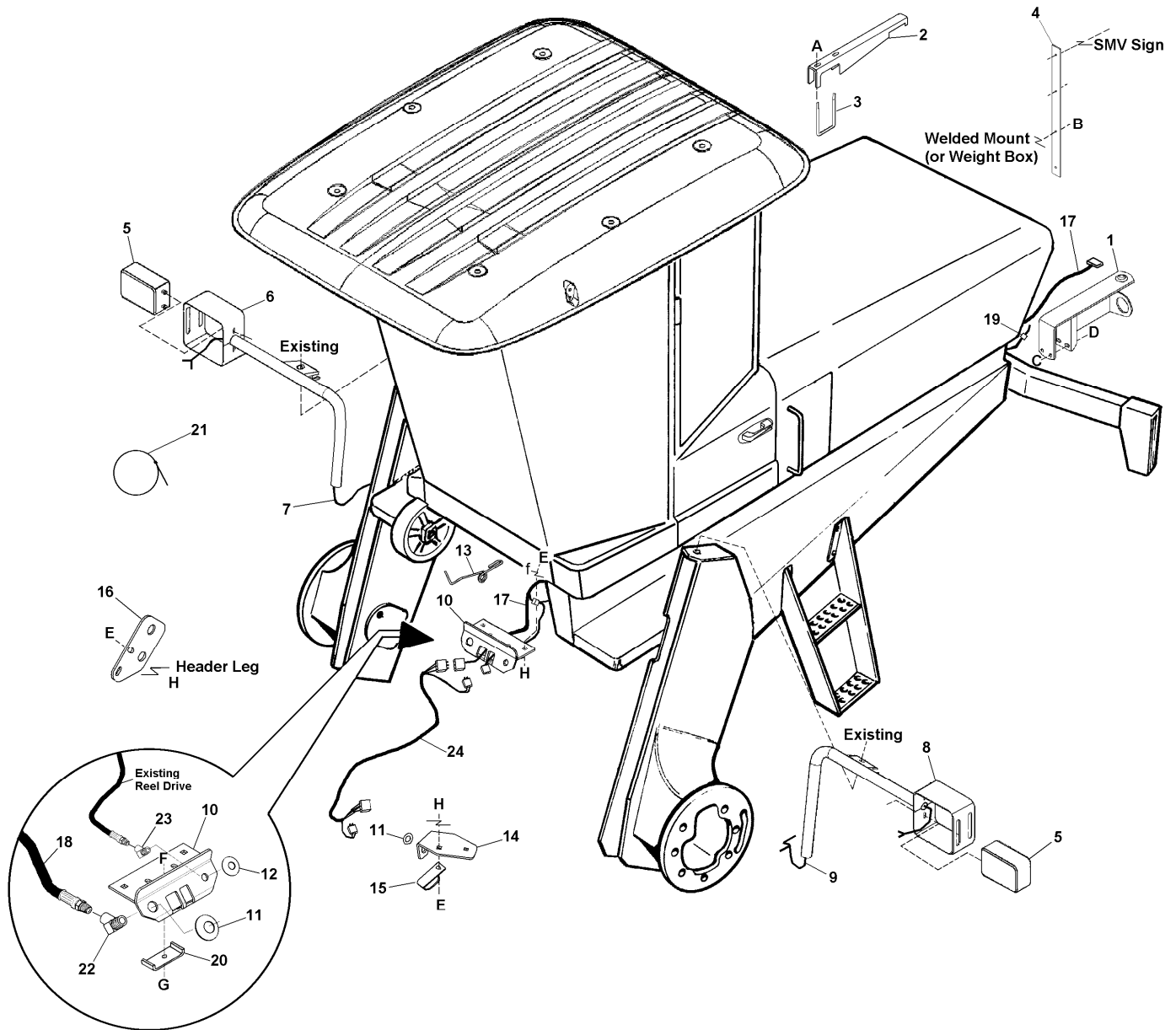
TRANSPORT WEIGHT BOX



TRANSPORT WEIGHT BOX

REF	PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER
1	131034	FRAME – weight box.....	1	
2	131043	PIN – hitch, 3/4 x 7 inch	2	
3	50193	PIN – lynch	2	
4	B3089	WHEELS & HITCH KIT – for weight box..... Kit available through WholeGoods only	OPT	
5	131073	HITCH – weight box	1	
6	131078	STRAP – hitch	1	
7	30517	CONE – bearing, with seal, inner.....	2	
8	41982	HUB – with bearing cups & grease fitting.....	2	
9	21376	CONE – bearing, with seal, outer.....	2	
10	21540	WASHER – hardened	2	
11	5512	NUT – hex, slotted, 3/4 NF	2	
12	18648	PIN – cotter, 3/16 x 1-1/4 inch.....	2	
13	30520	CAP – dust	2	
14	103696	TIRE – 20.5 x 8 x 10, 12 ply	2	
15	103697	RIM – 10 x 6 x 6	2	
	113020	VALVE STEM.....	2	
16	18916	BOLT – wheel, 9/16-18 NF x 1-1/4 inch.....	12	
17	41155	SPINDLE – weight box.....	2	
A	103562	BOLT – round head, square neck, 5/8 NC x 1-1/4 inch		
B	21585	BOLT – hex head, 5/8 NC x 1-1/4 inch		
C	18639	WASHER – lock, 5/8 ID		
D	50225	NUT – lock, flange, 5/8 NC		
E	21813	BOLT – hex head, 1/2 NC x 2 inch TFL		

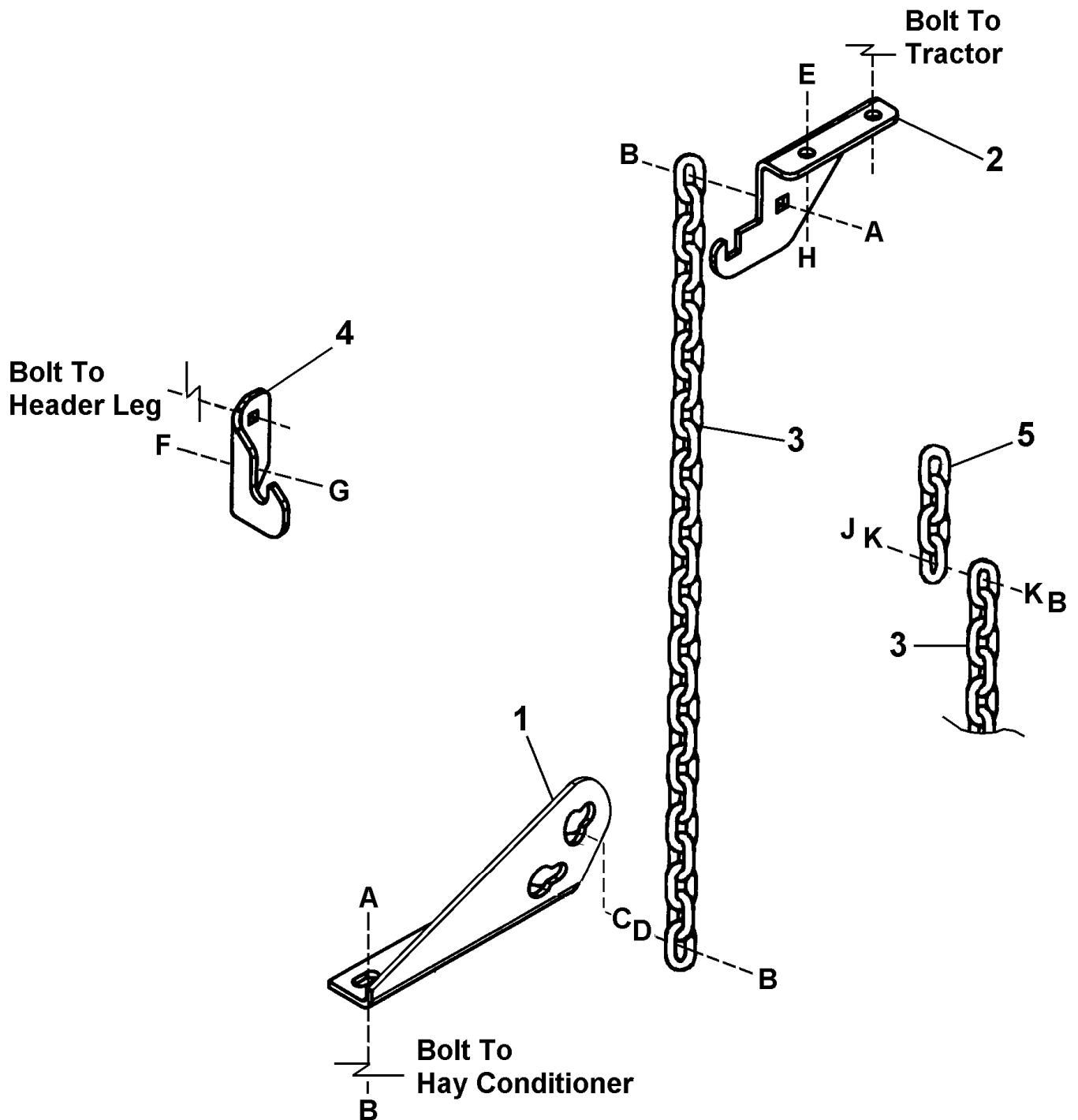
TRACTOR MOUNTED TRANSPORT PARTS & HEADER HOSE SUPPORTS



TRACTOR MOUNTED TRANSPORT PARTS & HEADER HOSE SUPPORTS

REF	PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER
1	131113	HITCH – walking beam to tow pole.....	1	
2	131112	SUPPORT – hitch storage	1	
3	131111	BOLT – u-bolt	1	
4	131027	BAR – extension, SMV mounting.....	1	
5	131048	LAMP – amber.....	2	
6	131051	MOUNT – R/H tractor lamp	2	
7	131053	HARNESS – R/H lamp	1	
8	131045	MOUNT – L/H tractor lamp.....	2	
9	131049	HARNESS – L/H lamp.....	1	
10	131104	MOUNT – hose.....	1	
11	45153	WASHER – dished, 1/2” coupler	2	
12	45157	WASHER – dished, 1/4” coupler	1	
13	131107	SPRING – center link	1	
14	131109	BRACKET – draper drive & reel lift hoses (header).....	1	
15	103738	CLIP – insulated	1	
16	131108	MOUNT – reel drive hoses (header)	1	
17	131118	HARNESS – wiring, transport – tractor section.....	1	
18	47009	HOSE – draper drive, extension.....	1	
19	131127	TERMINAL – splice, to red tail light.....	1	
20	131106	CLAMP – electrical connectors	1	
21	21763	FASTENER – plastic tie	6	
22	131135	FITTING – hydraulic, 45° street elbow, 8-8.....	1	
23	131134	FITTING – hydraulic, 45° street elbow, 4-4.....	1	
24	47325	HARNESS – wiring, extension, header to tractor.....	1	
	31062	CONNECTOR KIT – 3 way, includes male and female plugs		
	112443	CONNECTOR KIT – 2 way, includes male and female plugs		
A	50186	NUT – lock, flange, 1/2 NC		
B	21055	SCREW – self tapping, hex washer head, ¼ NC x 1/2 inch		
C	50163	BOLT – hex head, 5/8 NC x 5-1/2 inch		
D	50225	NUT – lock, flange, 5/8 NC		
E	30228	NUT – flange, 3/8 NC, distorted thread		
F	21483	BOLT – round head, square neck, 1/4 NC x 1-1/2 inch		
G	18724	NUT – lock, 1/4 NC		
H	21863	BOLT – round head, square neck, 3/8 NC x 3/4 inch		

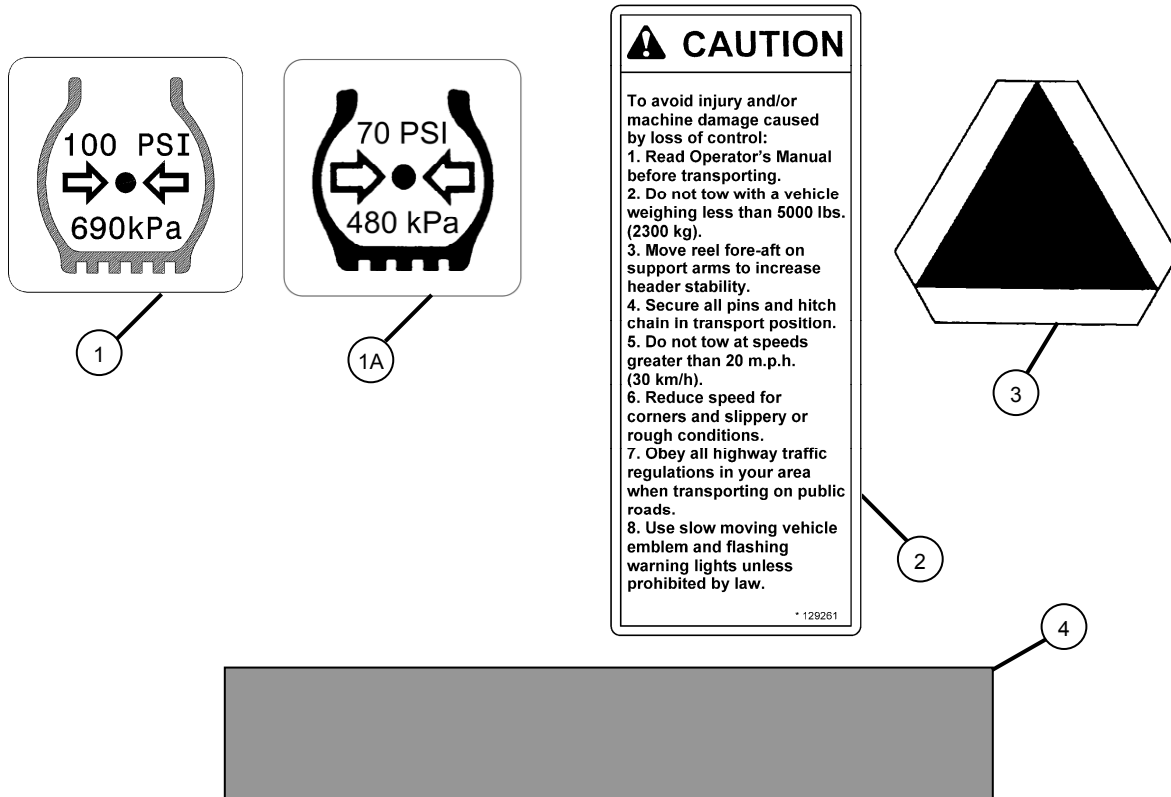
HAY CONDITIONER SUPPORTS



HAY CONDITIONER SUPPORTS

REF	PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER
1	125135	SUPPORT – attached to hay conditioner.....	1	
2	125002	SUPPORT – attached to tractor.....	1	
3	125003	CHAIN – transfer, from tractor to hay conditioner	1	
4	131121	SUPPORT – chain, attached to RH header leg	1	
5	118343	CHAIN – extension, for XX52 tractors (130 mm).....	1	
A	21471	BOLT – round head, square neck, 1/2 NC x 1-1/4 inch		
B	18697	NUT – lock, 1/2 NC		
C	30515	BOLT – round head, square neck, 1/2 NC x 1-3/4 inch		
D	18591	NUT – hex, 1/2 NC		
E	21575	BOLT – hex head, 1/2 NC x 1 inch		
F	30228	NUT – flange, 3/8 NC, distorted thread		
G	19965	BOLT – round head, square neck, 3/8 NC x 1 inch		
H	18695	NUT – lock, 1/2 NC		
J	18723	BOLT – hex head, 1/2 x 1-1/2 inch		
K	18599	WASHER – flat, 17/32 inch I.D.		

DECALS



REF	PART NUMBER	DESCRIPTION	QTY	SERIAL NUMBER
1	113565	DECAL – Tire Pressure – 100PSI – cutterbar tire		
1A	131140	DECAL – Tire Pressure - 70 PSI – L/H and R/H tires		
2	129261	DECAL – General Hazard, Transport Hitch		
3	43843	DECAL – Slow Moving Vehicle, Transport		
4	115146	REFLECTOR – Amber		
	115147	REFLECTOR – Red		

NUMERICAL LIST

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13125	41	103696	45	131053	49		
13710	39	103696	47	131054	43		
18608	39	103697	41	131062	43		
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18648	47	113020	41	131086	45		
18671	41	113020	43	131090	45		
18671	45	113020	45	131091	45		
18916	41	113020	47	131092	45		
18916	43	113278	43	131104	49		
18916	45	113518	39	131106	49		
18916	47	113519	39	131107	49		
19739	41	113520	39	131108	49		
21376	41	113524	39	131109	49		
21376	43	113532	39	131111	49		
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21540	41	113572	39	131117	39		
21540	43	113576	43	131118	49		
21540	45	113579	39	131121	51		
21540	47	115146	52	131127	49		
21763	49	115147	52	131128	39		
30441	45	117056	39	131134	49		
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