

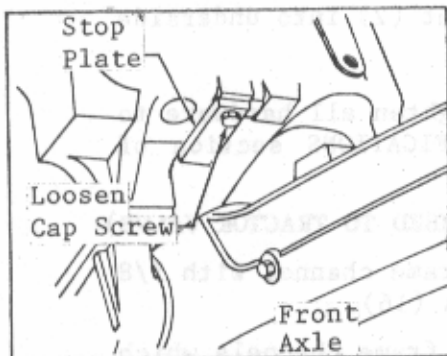
**LOADER MOUNTING KIT INSTRUCTIONS**  
**FOR FORD 5610, 6610 & 7610 TRACTORS**  
**WITH 14.9 x 24 TIRES, WITH CARRARO AXLES & LESS CAB**

The mounting brackets can be installed on the tractor and loader using tools ordinarily available. Installation of the mounting brackets require that the tread setting for the front tractor tires be a minimum of 67.3 inches (1710mm) and the tractor front axle oscillation be limited to 8-1/2° maximum: see instructions below. Front fenders and headlights must be removed while mounting brackets are attached to tractor. Shut off the tractor engine and engage tractor brakes during installation.

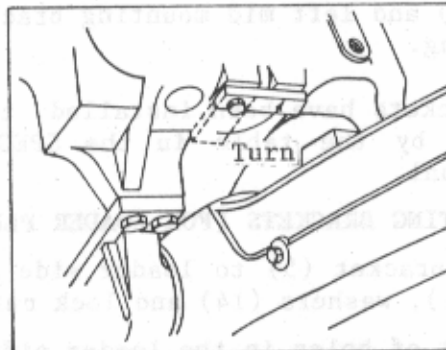
**NOTE:** Unless otherwise specified, leave all attaching hardware loose until loader mounting bracket installation is complete to facilitate assembly and proper alignment of mounting brackets.

Before installing the loader mounting kit, first remove headlights with headlight brackets, front fenders and front weights with weight brackets if they are present.

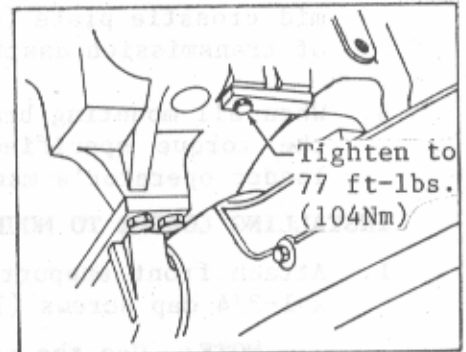
Next, check to make sure that the front axle oscillation stop plates are in position to limit axle tilt to 8-1/2°: they should be in position approximately parallel to the sides of the tractor (see below). If they are not, loosen the attaching cap screws sufficiently so the plates can swing clear of the locating ribs, then reposition stop plates and tighten cap screws to 77 ft.-lbs. (104Nm).



Stop Plate Position For 12° axle oscillation (Not compatible with loader mounting.)



Reposition Stop Plate



Stop Place In Correct Position (8-1/2° axle oscillation)

Set the tread setting for the tractor front tires to 67.3 inches (1710mm) or wider. Refer to the tractor operator's manual to adjust tread setting.

**INSTALLING MOUNTING BRACKETS (Figure 1, Page 10)**

1. Fasten front mounting bracket (1) to the tractor front casting using 3/4 x 2" cap screws (9), lock washers (12) in front holes and 3/4 x 2" cap screws (9), lock washers (12) and flat washers (13) in side holes.

## INSTALLING MOUNTING BRACKETS (continued)

2. Fasten right mid mounting bracket (3) to right side of tractor transmission casting using  $3/4$  x  $1-1/2$  cap screws (10), lock washers (12) and flat washers (13) for holes in upper pad, and  $3/4$  x  $1-1/2$  cap screws (10) and lock washers (12) in holes in lower pad. Positioning spacers (6) between tractor front casting and frontmost holes of right mid mounting bracket (3), fasten bracket and spacers to tractor using  $3/4$  x  $2-3/4$  cap screws (7), lock washers (12) and flat washers (13).

**NOTE:** It may be necessary to trim the cover for the drive shaft for front wheel assist to provide clearance for right mid mounting bracket (3), and also for left mid mounting bracket (2) and mid crosstie plate (4): see figure 2, page 10.

3. Slide mid crosstie plate (4) into channel of right mid mounting bracket (3) from left side of tractor and loosely fasten to right mid mounting bracket (3) using a  $3/4$  x 2" cap screw (9) and lock nut (15). Loosely fasten one  $3/4$  x  $2-1/2$  cap screw (8) with lock washer (12) through mid crosstie plate (4) and right mid mounting bracket (3) into underside of tractor transmission casting.
4. Positioning spacers (6) between left mid mounting bracket (2) and tractor at upper transmission casting pad and at tractor front casting, fasten bracket and spacers to tractor using  $3/4$  x  $2-1/2$  cap screws (8), lock washers (12) and flat washers (13) in upper transmission casting pad,  $3/4$  x  $1-1/2$  cap screws (10) and lock washers (12) in lower casting pad, and  $3/4$  x  $2-3/4$  cap screws (7), lock washers (12) and flat washers (13) in tractor front casting. Fasten left mid mounting bracket (2) to mid crosstie plate (4) and left mid mounting bracket (2) into underside of transmission casting.
5. When all mounting brackets have been installed, tighten all hardware to the torque specified by the table in the SPECIFICATIONS section of loader operator's manual.

## INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE)

1. Attach front support bracket (5) to loader side frame channel with  $5/8$  x  $1-3/4$  cap screws (11), washers (14) and lock nuts (16).

**NOTE:** Use the set of holes in the loader side frame channels which place the front support bracket so front edge of each attaching plate is approximately  $4-7/8$ " from front surface of loader front bumper.

2. Remove and save bucket level indicator with attaching hardware from loader. Attach nylon slings around the loader front bumper and use an overhead hoist to raise loader off skids.



**WARNING:** To avoid injury during installation, do not permit bystanders within 10 feet of loader.

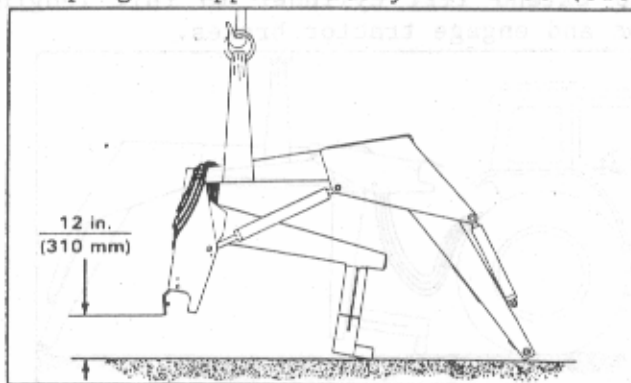
3. Swing hinges open as wide as possible and place a  $3/4$  x  $3-1/2$  cap screw into hole in each side frame upright to block hinges open.
4. Lower loader to a horizontal position on ground and disconnect from overhead hoist.

**INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE)**  
**(continued)**

5. Connect four 1/2" x 180" hoses (supplied in hose kit) onto boom oil line tubes starting with bottom oil line and working up. Install quick couplers (not supplied with loader) onto free ends of hoses.

**NOTE:** Apply sealant to all tapered threads except when coupled with swivel adaptors. When using teflon tape, wrap tape clockwise (as viewed from end) and wrap tape only twice. Keep sealant away from first two threads of tapered end to prevent contamination of hydraulic fluid.

6. Attach nylon slings around both boom arms near side frame uprights. Raise side frame uprights approximately one foot (310mm) off ground.



7. Start the tractor engine, release tractor brakes and back tractor up to loader. Plug quick couplers into tractor remote hydraulic couplers.

**NOTE:** When plugging couplers into tractor remote hydraulic couplers, make sure the hoses for the lift cylinders are connected to the two #1 remote couplers.



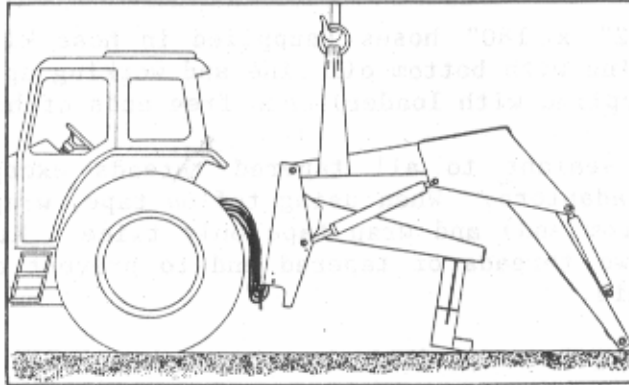
**WARNING:** Escaping hydraulic fluid under pressure can penetrate the skin causing serious injury.

- DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
- Stop engine and relieve pressure before connecting or disconnecting lines.
- Tighten all connections before starting engine or pressurizing lines.

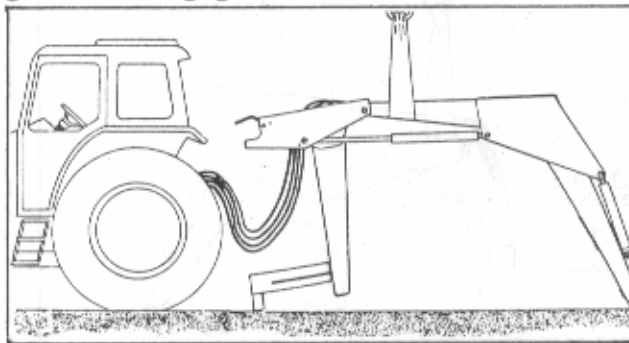
If any fluid is injected into the skin, obtain medical attention immediately or gangrene may result.

**IMPORTANT:** Check tractor remote control valve for proper detent operation before connecting loader quick couplers to tractor hydraulics. See REMOTE CONTROL VALVE DETENT CONVERSION section of loader operator's manual for instructions.

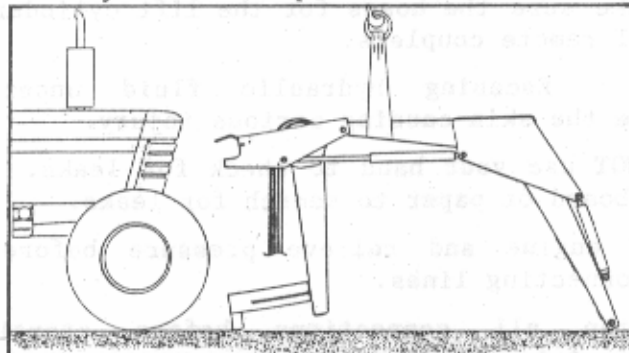
**INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE)  
(continued)**



8. Activate valve to extend lift cylinder to full length, then shut off the tractor engine and engage tractor brakes.



9. Lower loader to the ground and remove overhead hoist. Move lift and bucket control levers back and forth several times to relieve pressure on the lift and bucket cylinders, then disconnect quick couplers from the tractor remote hydraulic couplers.



10. Start tractor engine, release tractor brakes and turn tractor around. Slowly drive tractor up to loader until hoses will reach from loader to tractor. Engage tractor brakes and shut off tractor engine.
11. Connect quick couplers between tractor and loader.
12. Start tractor engine and release tractor brakes. Slowly drive tractor forward while activating lift control lever to retract lift cylinders. Position tractor so hinges hook mid mounting bracket tubes as loader side frame rotates.

**INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO TRACTOR VALVE)  
(continued)**

13. Put the tractor in neutral. Retract the lift cylinders, bringing side frame channels up so front support bracket tube contacts front mounting bracket channel. Move the tractor ahead so front support bracket tube engages in front mounting bracket channel and loader side frame uprights seat properly on mid mounting bracket tubes (with no gap between upright cut-out and front of tube). Engage tractor brakes and shut off tractor engine.
14. Remove 3/4 x 3-1/2 cap screw from hole in each side frame upright and clamp hinges around mid mounting tubes. Fasten hinges shut with 3/4 x 3-1/2 cap screws, washers and lock nuts.

**IMPORTANT:** Be sure to use ELASTIC lock nut to clamp hinge. Tighten ELASTIC lock nut against hinge, but not to more than 125 ft.-lbs. of torque.
15. Wrap one end of rubber strap (supplied with hose kit) around the 1/2" hoses and hook back onto itself. Position rubber strap about 44 inches away from boom oil line tubes. Attach other end of rubber strap to loader front support bracket.
16. Loosely attach hoses together with one reusable tie strap.
17. After all plumbing has been completed, start the tractor engine and slowly cycle the lift and bucket cylinders several times to free the system of air, then retract cylinders and stop engine. Add additional Ford 134 hydraulic oil as specified in your tractor operator's manual, to bring the oil level up to full.

**NOTE:** When cycling the loader, pulling lift control lever up should raise the loader and pushing it down should lower the loader. Pulling bucket control lever up should roll the bucket back and pushing it down should dump the bucket. If direction of control lever is reversed, switch quick coupler connections at the tractor remote hydraulic couplers.

18. After mounting the loader, check tire clearances. Adjustment of steering stops may be required. Proper tread setting is required to prevent interference between front tires and loader. The minimum recommended tire tread setting is 67.3 inches (1710mm). The axle stops must be positioned to limit front axle oscillation to 8-1/2°. Refer to tractor operator's manual for front wheel tread setting and steering stop adjustment.

**INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO OPTIONAL AUXILIARY 1-LEVER VALVE).**

1. Attach front support bracket (5) to loader side frame channels with 5/8 x 1-3/4 cap screws (11), washers (14) and lock nuts (16).

**NOTE:** Use the set of holes in the loader side frame channels which place the front support bracket so front edge of each attaching plate is approximately 4-7/8" from front surface of loader front bumper.

2. Remove and save bucket level indicator with attaching hardware from loader. Attach nylon sling around the loader front bumper and use an overhead hoist to raise loader off skids.

INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO OPTIONAL AUXILIARY 1-LEVER VALVE) (continued)



**WARNING:** To avoid injury during installation, do not permit bystanders within 10 feet of loader.

3. Swing hinges open as wide as possible and place 3/4 x 3-1/2 cap screw into hole in each side frame upright to block hinges open.
4. Lower loader to a horizontal position on ground and disconnect from overhead hoist.
5. Begin installing auxiliary valve kit on tractor by fastening guide tube to the inside surface of guide flat on right side of mid mounting bracket with 1/2 x 1-1/2 carriage bolts and lock nuts (see instructions packed with valve kit). Slide adjustable mounting bracket inside of guide tube.
6. Install nut and lock washer onto valve handle. Install handle into handle adapter of valve and lock with nut.
7. Fasten valve to the valve mounting bracket with 3/8 x 2" cap screws and lock nuts. Slide valve bracket into adjustable bracket and secure with 3/8 x 2-1/2 cap screws and lock nuts. The adjustable mounting bracket and valve bracket should be adjusted so the valve lever is conveniently located for the operator. Secure adjustable bracket within guide tube with 1/2 x 1" square head set screw. Excess tube on adjustable bracket and valve bracket may be cut off.
8. Install 7/8 - 7/8 x 90° elbow fittings into the four working ports of valve.
9. Start the tractor engine, release tractor brakes and slowly drive tractor forward up to rear of loader. Engage tractor brakes and shut off tractor engine.
10. Install 1/2 x 120" hoses (supplied with valve kit) connecting boom oil lines to elbow adapter fittings in the four working ports of valve. Install and tighten hose fittings onto boom oil lines, one at a time, starting from the bottom and working up.
11. Install 7/8 - 1-1/16 elbow fittings into the inlet and outlet ports of valve.
12. Install 1/2 x 108" hoses onto elbow adapter fittings in inlet and outlet ports of valve and install male quick couplers (not supplied with loader) to other end of hoses.
13. Route hoses over the tractor rear axle housing and plug couplers into the tractor remote hydraulic couplers. Secure hoses together with reusable tie straps.



**WARNING:** When plugging couplers into tractor remote couplers, make sure they are connected to the same remote outlet. The line from the inlet port of valve must be pressurized when the tractor valve lever is engaged or damage to the valve could occur.

**INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO OPTIONAL AUXILIARY 1-LEVER VALVE) (continued)**

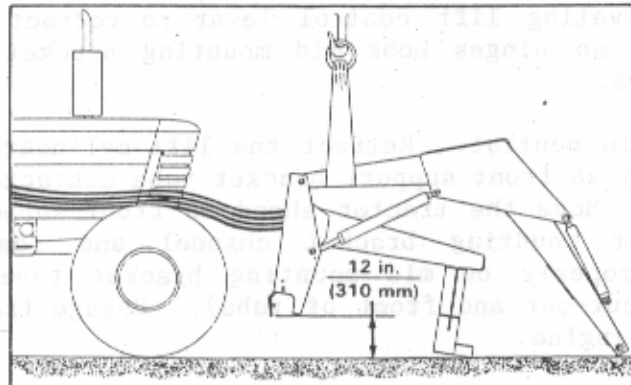


**WARNING:** Escaping hydraulic fluid under pressure can penetrate the skin causing serious injury.

- **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
- Stop engine and relieve pressure before connecting or disconnecting lines.
- Tighten all connections before starting engine or pressurizing lines.

If any fluid is injected into the skin, obtain medical attention immediately or gangrene may result.

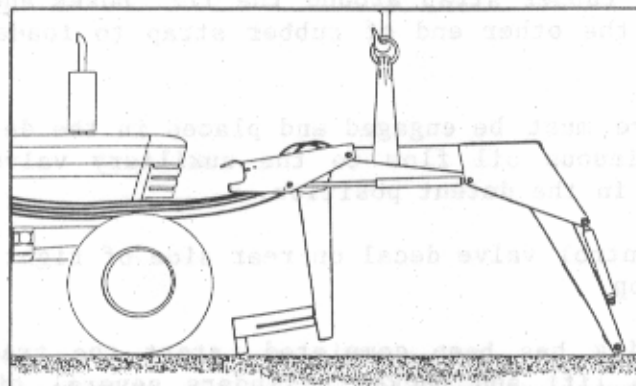
14. Attach nylon slings around both boom arms near side frame uprights. Raise side frame uprights approximately one foot (310mm) off ground.



15. Start tractor engine, release tractor brakes and activate valve to extend lift cylinders to full length.

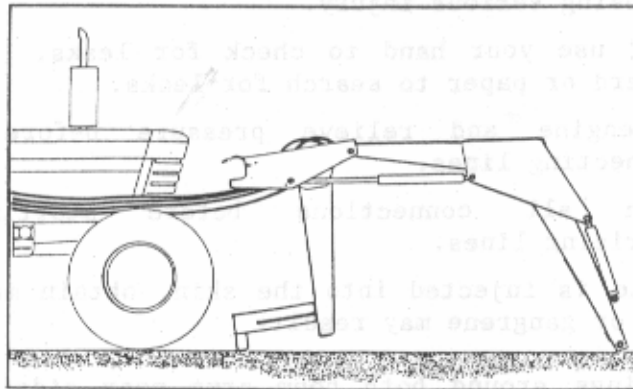
**IMPORTANT:** As lift cylinders extend and side frames rotate, the tractor may need to be moved backward or forward to maintain slack in hydraulic hoses.

Shut off engine and engage tractor brakes.



**INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO OPTIONAL AUXILIARY 1-LEVER VALVE) (continued)**

16. Lower loader to the ground and remove overhead hoist.



17. Start tractor engine and release tractor brakes. Slowly drive tractor ahead while activating lift control lever to retract lift cylinders. Position tractor so hinges hook mid mounting bracket tubes as loader side frame rotates.
18. Put the tractor in neutral. Retract the lift cylinders, bringing side frame channels up so front support bracket tube contacts front mounting bracket channel. Move the tractor ahead so front support bracket tube engages in front mounting bracket channel and loader side frame uprights seat properly on mid mounting bracket tubes (with no gap between upright cut-out and front of tube). Engage tractor brakes and shut off tractor engine.
19. Remove  $3/4 \times 3-1/2$  cap screw from hole in each side frame upright and clamp hinges around mid mounting tubes. Fasten hinges shut with  $3/4 \times 3-1/2$  cap screws, washers and lock nuts.

**IMPORTANT:** Be sure to use ELASTIC lock nut to clamp hinge. Tighten elastic lock nut against hinge, but to no more than 125 ft.-lbs. of torque.

20. Wrap one end of rubber strap around the  $1/2$ " hoses and hook back onto itself. Attach the other end of rubber strap to loader front support bracket.
21. The tractor valve must be engaged and placed in the detent position so there is a continuous oil flow to the auxiliary valve. Tie or wire lever to hold it in the detent position.
22. Apply 1-lever control valve decal on rear side of right loader upright, center 6" from top.
23. After all plumbing has been completed, start the tractor engine and slowly cycle the lift and bucket cylinders several times to free the system of air, then retract cylinders and stop engine. Add additional Ford 134 hydraulic oil as specified in your tractor operator's manual, to bring the oil level up to the full mark.



**INSTALLING LOADER TO MOUNTING BRACKETS (FOR LOADER PLUMBED TO OPTIONAL AUXILIARY 1-LEVER VALVE) (continued)**

**NOTE:** When cycling the loader, pulling the valve lever back should raise the loader and pushing it forward should lower the loader. Pulling valve lever to the left should retract bucket cylinders and pushing it to the right should extend bucket cylinders. If direction of control lever is reversed, switch hose connections at auxiliary valve working ports. If loader stalls while raising boom and leveling bucket or otherwise fails to operate correctly, consult the TROUBLESHOOTING, AUXILIARY 1-LEVER VALVE AND PLUMBING TO LOADER and PLUMBING OPTIONAL SELF-LEVELING VALVE TO LOADER HYDRAULICS section of loader operator's manual.

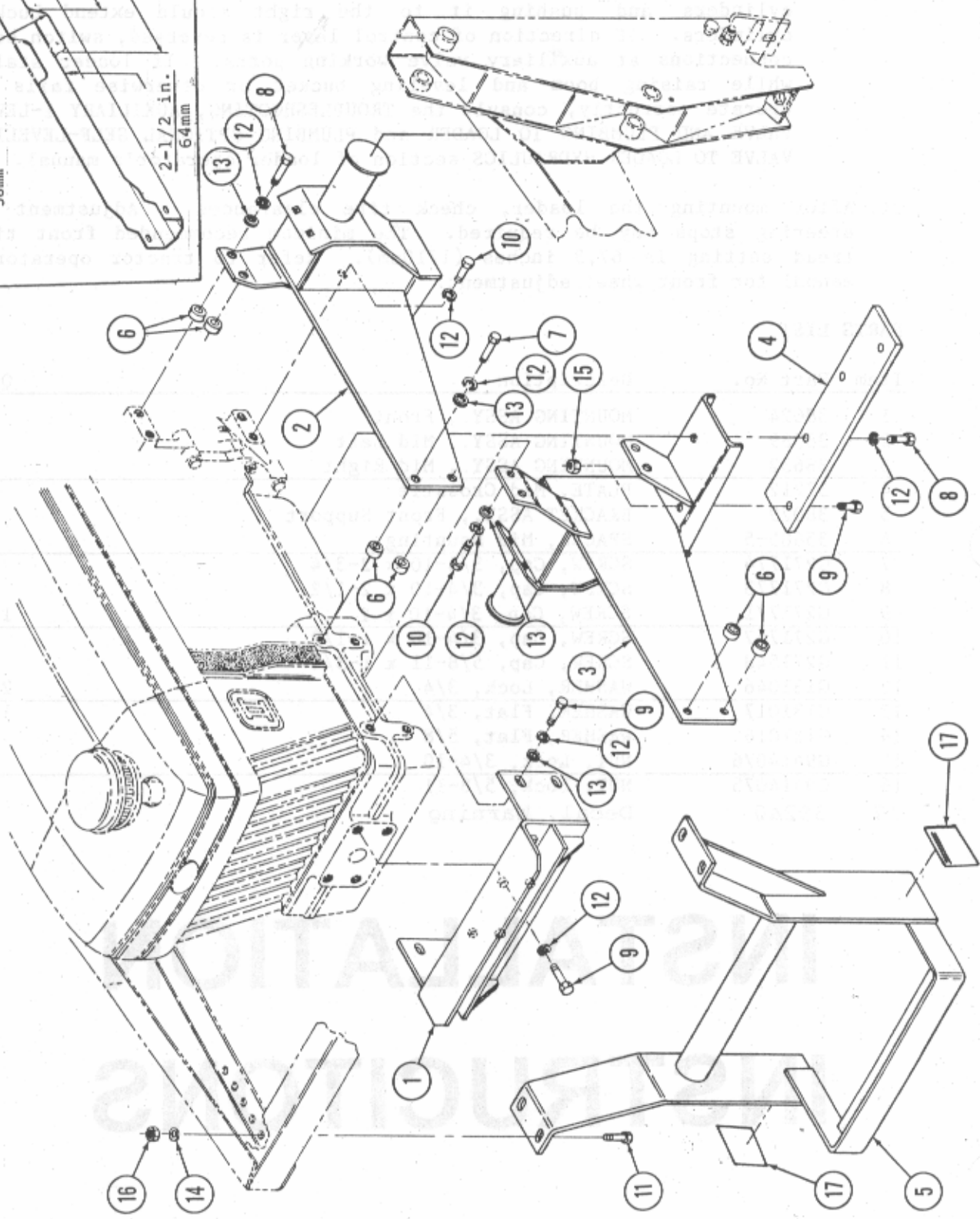
24. After mounting the loader, check tire clearances. Adjustment of steering stops may be required. The minimum recommended front tire tread setting is 67.3 inches (1710mm). Refer to tractor operator's manual for front wheel adjustment.

**PARTS LIST**

Item	Part No.	Description	Qty.
1	38024	MOUNTING ASSY., Front	1
2	38589	MOUNTING ASSY., Mid Left	1
3	38632	MOUNTING ASSY., Mid Right	1
4	37212	PLATE, Mid Crosstie	1
5	38029	BRACKET ASSY., Front Support	1
6	35685-5	SPACER, Mid Mounting	6
7	G271774	SCREW, Cap, 3/4-10 x 2-3/4	4
8	G271773	SCREW, Cap, 3/4-10 x 2-1/2	4
9	G271771	SCREW, Cap, 3/4-10 x 2	10
10	G271767	SCREW, Cap, 3/4-10 x 1-1/2	6
11	G271548	SCREW, Cap, 5/8-11 x 1-3/4	4
12	G131046	WASHER, Lock, 3/4	22
13	G131017	WASHER, Flat, 3/4	12
14	G131016	WASHER, Flat, 5/8	4
15	G9414076	NUT, Lock, 3/4-10	2
16	G9414075	NUT, Lock, 5/8-11	4
17	39240	Decal, Warning	2

# INSTALLATION INSTRUCITONS

**Figure 1**  
Loader Mounting Brackets



**Figure 2**  
FWA Drive Shaft  
Guard Modification

