

Keep With Loader Operator's Manual

LOADER MOUNTING KIT INSTRUCTIONS
NEW HOLLAND 7310
SMC 2410

MODEL	2WD	4WD	LESS CAB	WITH CAB
3230, 3430, 3930 *4000, *4100, *4600 *4610, 4630	X		X	

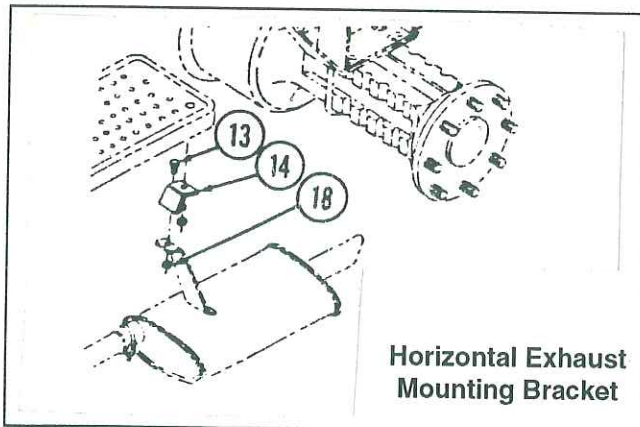
* AP models without external power assist steering and 64" maximum tread setting.

Mounting brackets can be installed using tools ordinarily available. If tractor is equipped with headlights mounted on side of tractor, front fenders or front weights and bracket, they must be removed before installing mounting brackets. For tractors equipped with a tool box, it will be necessary to relocate it to where it will not interfere with loader. Shut off tractor engine and engage tractor brakes during installation.

NOTE: Leave all attaching hardware loose until mounting brackets are completely assembled to facilitate assembly and proper alignment. Tighten all hardware to torque specifications in loader operators manual except 3/4 x 5 cap screws (23) and lock nuts (17), which must be torqued to 125 ft. lb.

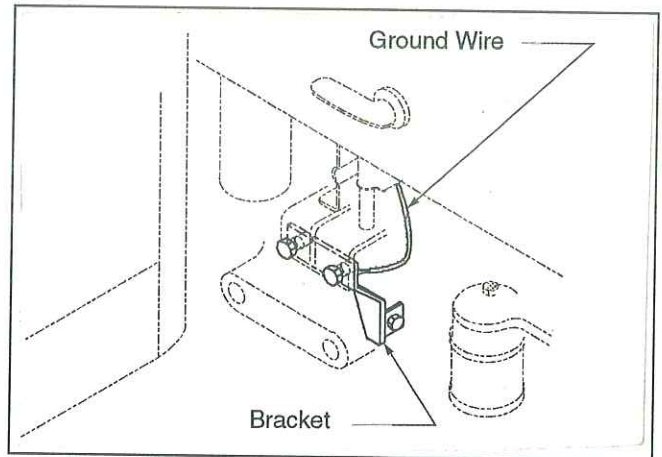
HORIZONTAL EXHAUST MOUNTING BRACKET

If tractor is equipped with horizontal exhaust, remove and retain hardware securing muffler to tractor left foot plate. Install muffler mounting extension bracket (14) with 5/16 x 3/4 cap screw (13), lock nut (18) and original hardware.



BRACKET REMOVAL

If present, remove and discard bracket under battery hinge on right side of engine. Relocate ground wire to convenient location.



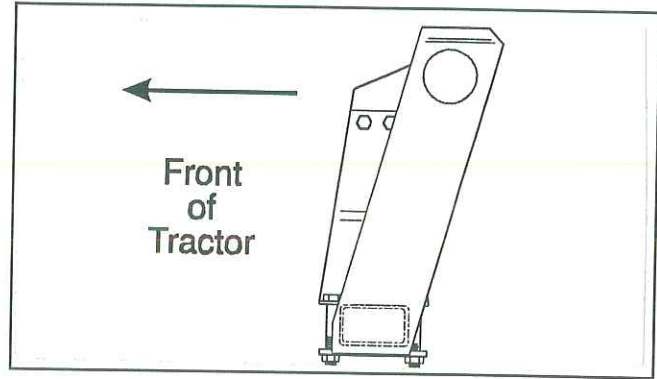
INSTALLING MOUNTING BRACKETS (Figure 1)

1. Fasten front mounting bracket (1), with longer flange on top, and spacer plate (21) to tractor front casting using 3/4 x 2 cap screws (10) and 3/4 lock washers (15) in the front holes and 3/4 X 2 cap screws (10), 3/4 lock washers (15) and 3/4 flat washers (16) in top left and bottom side holes. Fasten hose restraint bracket (8) and front mounting to upper right side hole of tractor front casting using 3/4 x 2 cap screw (10) and 3/4 lock washer (15).
2. Place bottom 1-1/2 spacer (6) between left mid mounting bracket (4) and tractor transmission casting. Fasten left midmount bracket (4) and bottom 1-1/2 spacer (6) to tractor transmission casting using 3/4 x 3-1/4 cap screws (12) and 3/4 lock washers (15).

NOTE: On models 4600, 4610, 4000 and 4100, 1-1/2 spacers are installed outside left mounting bracket (Figure 1).

3. Place bottom 1/2 spacer (20) between right mid mounting bracket (3) and tractor transmission casting. Fasten right midmount bracket (3) and bottom 1/2 spacer (20) to tractor transmission casting using 3/4 x 4 cap screws (22) and 3/4 lock washers (15).
4. Elevate crosstie assembly (2) to mid mount brackets (3 & 4). Center crosstie assembly on tractor transmission casting. Fasten crosstie assembly to mid mounting brackets using 3/4 x 5 cap screws (23) crosstie clamps (5) and 3/4 lock nuts (17).

NOTE: Crosstie assembly must be oriented such that the centers of mid mounting tubes are to the rear of rectangular crosstie member.



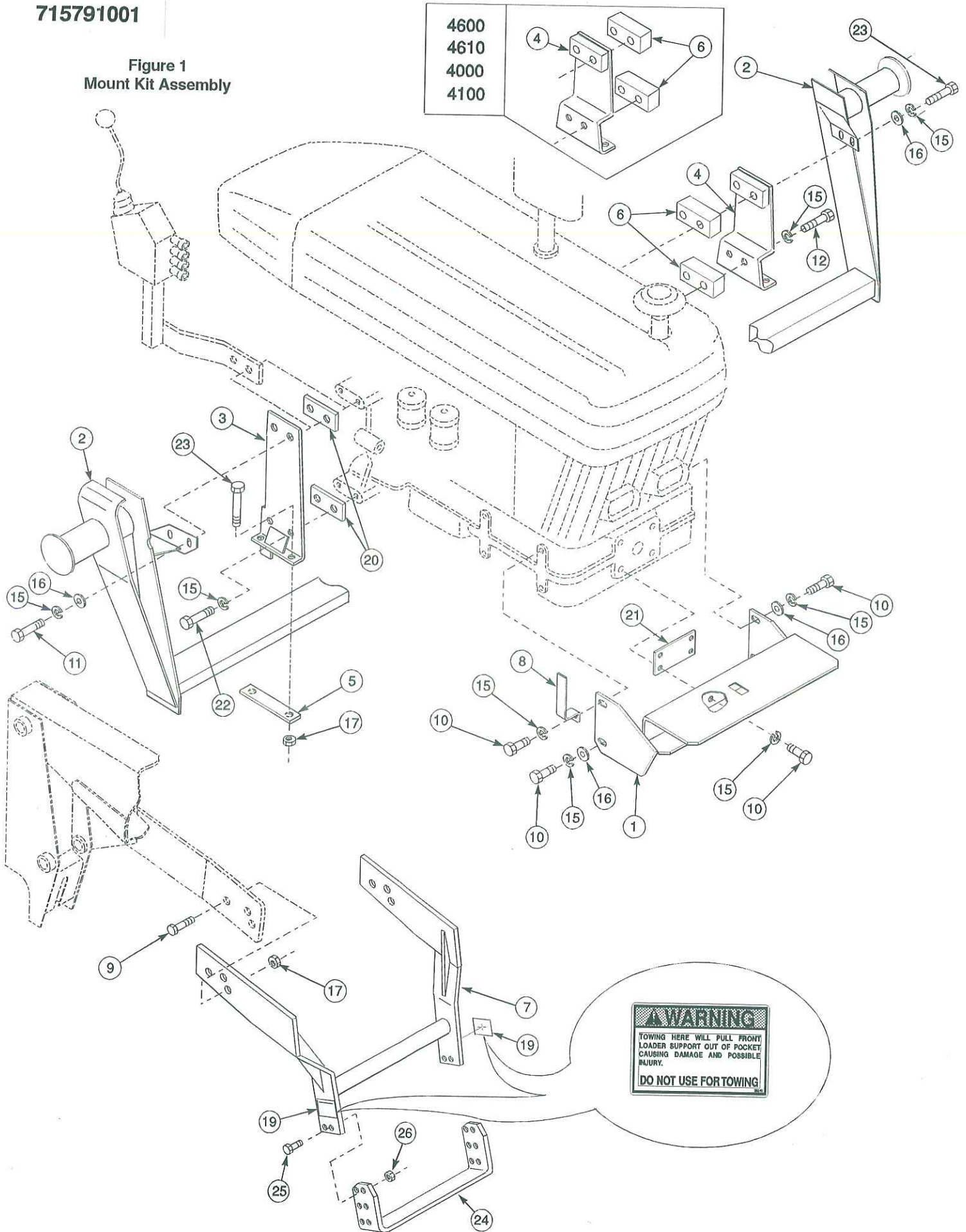
5. Place top 1-1/2 spacer (6) between left midmounting bracket (4) and tractor transmission casting. Fasten left side of crosstie assembly (2), left midmounting bracket (3) and top 1-1/2 spacer (6) to tractor transmission casting using 3/4 x 5 cap screws (23), 3/4 lock washers (15) and 3/4 flat washers (16).
6. Place top 1/2 spacer (20) between right midmounting bracket (3) and tractor transmission casting. Fasten right side of crosstie assembly (2), right midmounting bracket (4) and top 1/2 spacer (20) to tractor transmission casting using 3/4 x 3 cap screws (11), 3/4 lock washers (15) and 3/4 flat washers (16).

NOTE: If auxiliary valve option is being used, top 1/2" spacer (20) is not required.

PARTS LIST - MOUNTING KIT

ITEM	PART NO.	DESCRIPTION	QTY.
1	41515	BRACKET, Front Mounting	1
2	41575	CROSSTIE, Assembly	1
3	36741	BRACKET, Midmount, Right	1
4	36740	BRACKET, Midmount, Left	1
5	36478	FLAT, Crosstie Clamp	2
6	36772-5	SPACER, Flat, 1-1/2 x 1-1/2 x 4-1/2	2
7	41912	YOKE Assembly	1
8	39482	BRACKET, Hose Restraint	1
9	G271773	SCREW, Cap, 3/4 x 10 x 2.50	6
10	G271771	SCREW, Cap, 3/4-10 x 2	8
11	G271775	SCREW, Cap, 3/4-10 x 3	2
12	G271776	SCREW, Cap, 3/4-10 x 3-1/4	2
13	G180077	SCREW, Cap, 5/16 x 3/4	1
14	33670	BRACKET, Muffler Mounting Extension	1
15	G131046	WASHER, Lock, 3/4	16
16	G131017	WASHER, Flat, 3/4	7
17	G9414076	NUT, Lock, 3/4-10	10
18	G9413447	NUT, LOCK, 5/16-18	1
19	39240	DECAL, "WARNING, Do Not Use For Towing"	2
20	36772-6	SPACER, Flat, 1/2 x 1-1/2 x 4-1/2	2
21	41538	SPACER, Plate	1
22	G271779	SCREW, Cap, 3/4-10 x 4	2
23	G271783	SCREW, Cap, 3/4-10 x 5	6
24	41909	FOOT, Adjustable, Yoke	1
25	G180175	SCREW, Cap, 1/2-13 x 1-1/4	4
26	G9414074	NUT, Lock, 1/2-13	4

Figure 1
Mount Kit Assembly



INSTALLING LOADER TO MOUNTING BRACKETS

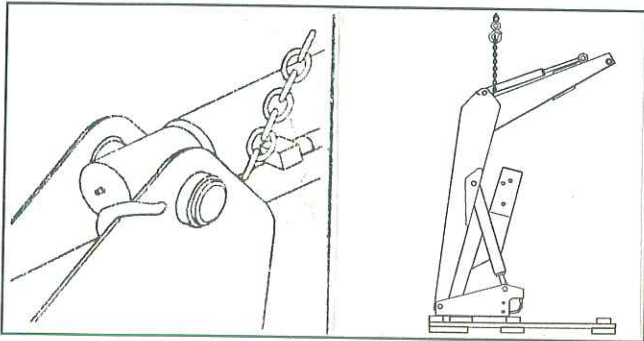


WARNING: To avoid injury during installation of quick attach loader, do not permit bystanders within ten feet of loader.

1. Loop chain under each bucket cylinder and hook on loader boom arm. Using overhead hoist to support loader remove hardware securing loader to pallet. Lift loader and remove pallet.



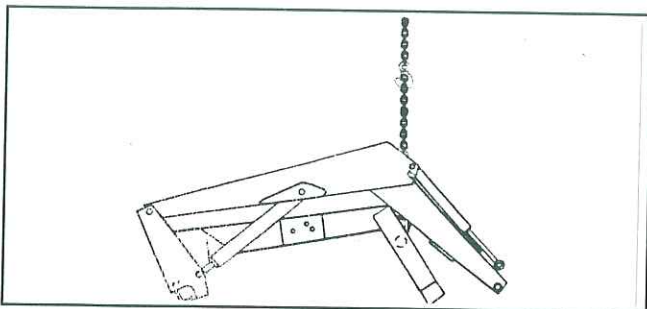
CAUTION: Do not damage grease fitting on end of cylinder. Be sure chain does not pinch lift cylinder hose.



2. Install adjustable foot (24) to yoke (7) using 1/2 cap screws (25) and lock nuts (26).

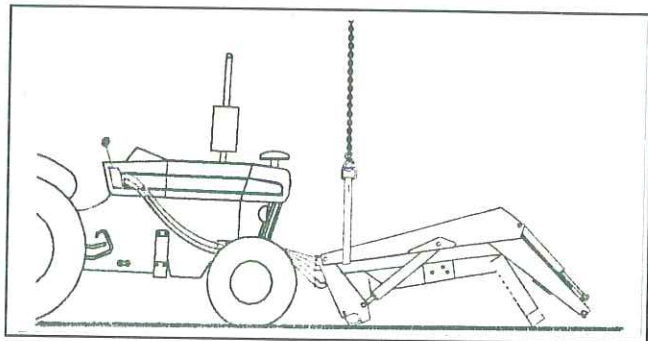
NOTE: Adjustable foot (24) can be positioned on yoke (7) to provide adequate ground clearance and to clear tractor front axle. Tractors with large front tires use top set of mounting holes. 2WD tractors use lower sets of mounting holes. After loader has been installed, slowly dismount loader (using procedure in loader operators manual) and check to be sure yoke (7) does not hit tractor axle. If yoke (7) hits tractor axle, reposition adjustable foot (24) to provide adequate clearance.

3. Using overhead hoist, lower loader from vertical shipping position to horizontal position leaving enough room to install yoke (scraps of cardboard may be used to protect paint). Install yoke assembly (7) using 3/4 x 2-1/2 cap screws (9) and 3/4 lock nuts (17). Lower loader completely to ground and remove hoist from loader.

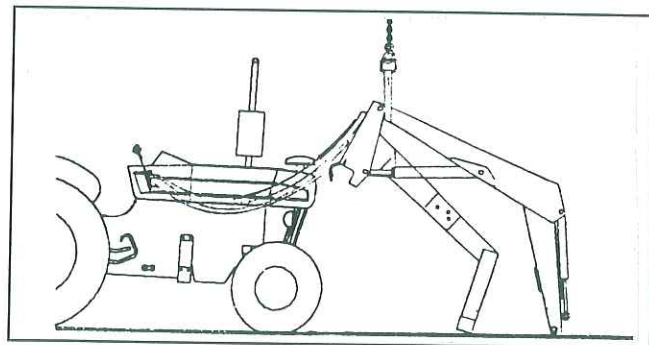


NOTE: Hardware connecting yoke to loader sideframes should be snug but do not torque completely. After loader has been mounted to tractor and aligned with midmounting brackets and front mounting bracketfw, torque hardware to specifications in loader operators manual.

4. Install hose or valve kit to tractor and loader. Refer to assembly manual provided for installation instructions.
5. Position tractor close enough so plumbing can be connected to loader. Route hoses loosely to allow maximum reach. Reposition overhead hoist to loader boom arms near pivot point to side frames.
6. Operate loader control valve to extend lift cylinders until front yoke is resting on ground and side frame uprights will clear front tires. Shut off tractor engine and engage tractor brakes. Reroute loader hoses to inside of right midmount bracket. Remove locknut and washer from loader hinge and swing each hinge open.

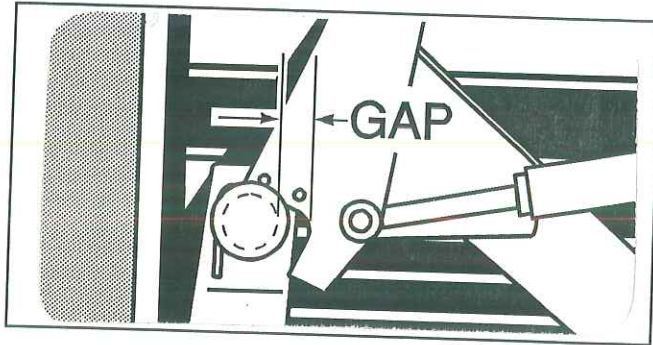


7. Start tractor engine, release tractor brakes and slowly drive forward while operating lift control levers to retract lift cylinders. Position loader so hinges hook over mid mounting tubes.



NOTE: Position loader uprights so mid mounting tubes are tight against hinges until loader has finished rotating so loader front bumper tube does not hit lower flange of front mounting channel.

INSTALLING LOADER TO MOUNTING BRACKETS (Continued)



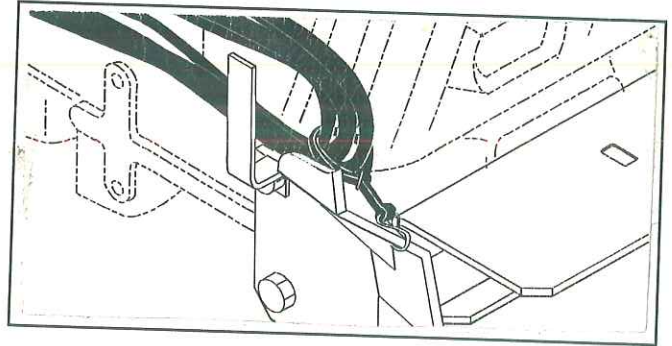
IMPORTANT: Position loader uprights so mid mounting tubes are tight against hinges until loader has finished rotating so loader front bumper tube does not hit lower flange of front mounting channel.

8. With tractor in neutral, retract lift cylinders, bringing side frame up so front yoke tube contacts upper flange of front mounting bracket channel. Move tractor ahead until front yoke tube engages in front mounting channel and upright hinges can clamp around mid mounting tube. Engage tractor brakes and shut off tractor engine.
9. Clamp hinges to midmounting tubes with 3/4 flat washers and 3/4 flex-lock nuts (supplied with loader).

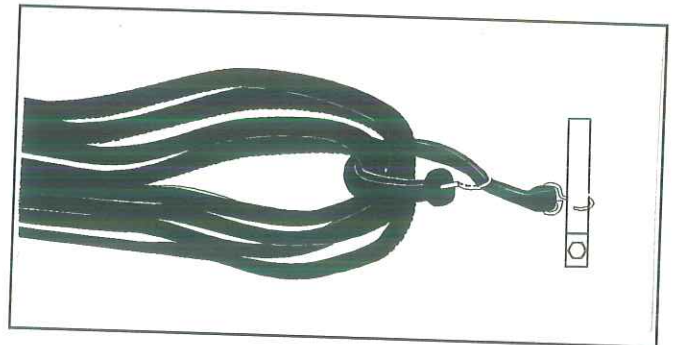
NOTE: Only one washer per side is necessary for mounting. Second washer is for shipping purposes only.

IMPORTANT: Be sure to use flex-lock nuts to clamp hinge. Tighten flex-lock nuts against hinge securely, but not to more than 125 ft.-lb. torque.

10. If using optional single lever valve, loop hoses behind hose bracket on front mounting bracket and secure rubber strap to front mounting yoke to maintain tension on hoses.



If using hose kit to tractor remotes, hook rubber strap to hose restraint bracket on front mounting bracket to maintain tension on hoses.



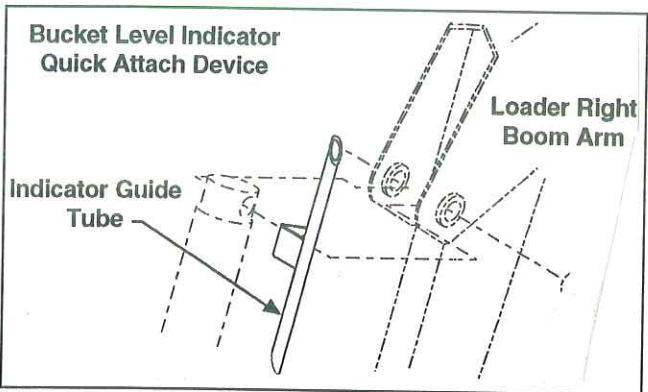
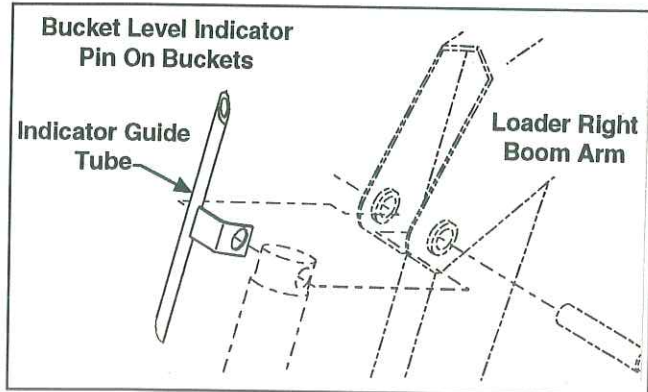
11. Adjust front wheel tread settings or steering stops, if necessary to prevent interference between tires and loader. Refer to tractor operator's manual for adjustment procedures.

INSTALLING BUCKET OR OPTIONAL ATTACHMENT

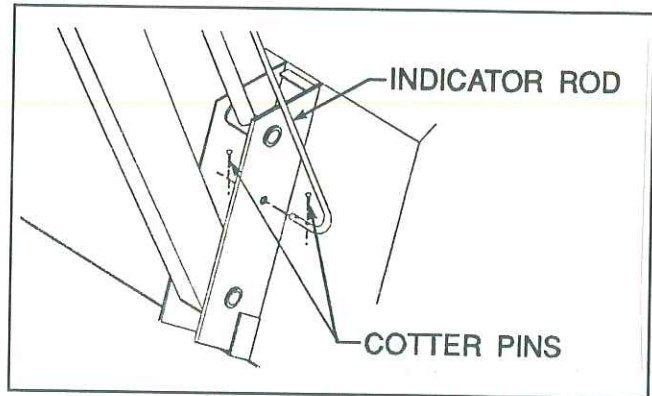
Refer to loader operator's manual for instructions on installing bucket or optional attachment.

INSTALLING BUCKET LEVEL INDICATOR

1. Attach indicator guide tube to cylinder pin. Guide tube is positioned to outside of boom for pin on attachments and inside of boom when quick attach device is used.



2. Slide bucket level indicator rod through guide tube. Attach other end of rod with 1/8 x 1 cotter pins. If pin on bucket is used, attach lower end of rod to bucket ear. If quick attach device is used, attach lower end of rod to quick attach device.



3. Locate tractor and loader on level surface. With bottom of bucket resting on surface, cut off excess rod flush with end of guide tube or paint exposed rod a contrasting color.

NOTES

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INSTALLATION INSTRUCTIONS