

145 FARM LOADER



OPERATORS MANUAL

145 FARM LOADER

OMW21474 E0 English

JOHN DEERE WELLAND WORKS
OMW21474 E0

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ENGLISH





Introduction



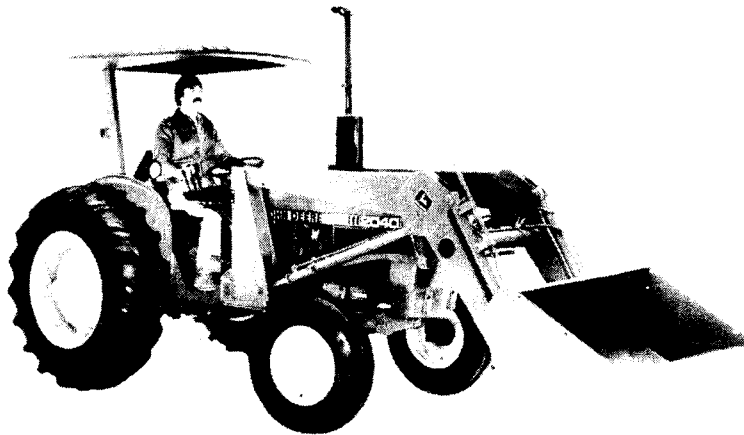
This safety alert symbol identifies important safety messages in this manual. When you see this symbol be alert to the possibility of personal injury and carefully read the message that follows.

"Right" and "left-hand" sides are determined by facing the direction of forward travel.

The warranty appears on your copy of the purchase order which you should have received from your dealer.

Record your Loader serial number in the space provided on page 72. Your dealer needs this information to give you prompt, efficient service.

This operator's manual contains SI metric equivalents which follow immediately after the U.S. customary units of measure.





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The full manual is available for immediate download.

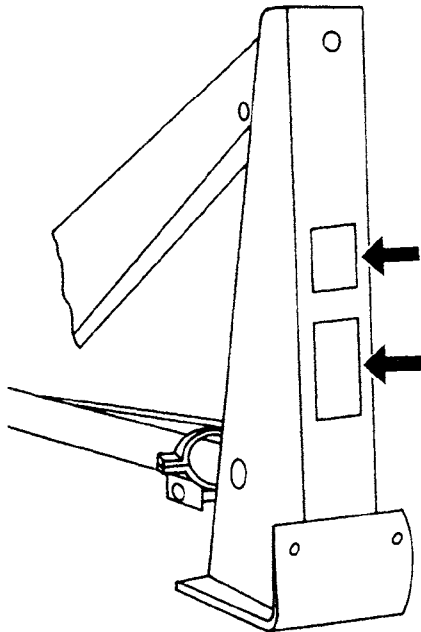
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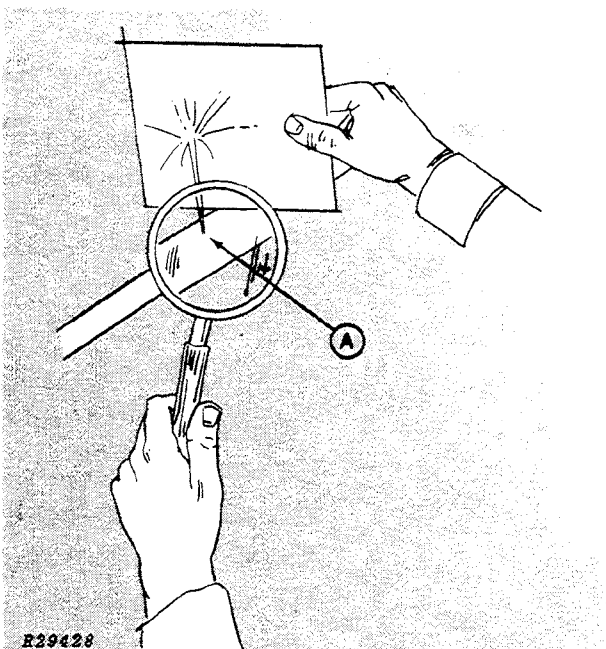
Safety

BEFORE OPERATING

Read this manual and all decals on the machine.



W6680



R29428

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands to search for suspected leaks.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

A—Pin Hole Leak

Become familiar with all controls.

Check hardware condition.

Check condition of hydraulic hoses and connections.

Remove foreign objects from loader.

Be sure no one is near loader.

Be sure all tractor PTO shields are installed.

OPERATING

Do not use the 145 Loader to handle round bales.

Do not use Grapple Fork or Round Bale Clamp with the 145 Loader.

Improper use of loader can cause serious injury or death.

A roll-over protective structure is recommended for tractors equipped with a loader.

Under most operating conditions:

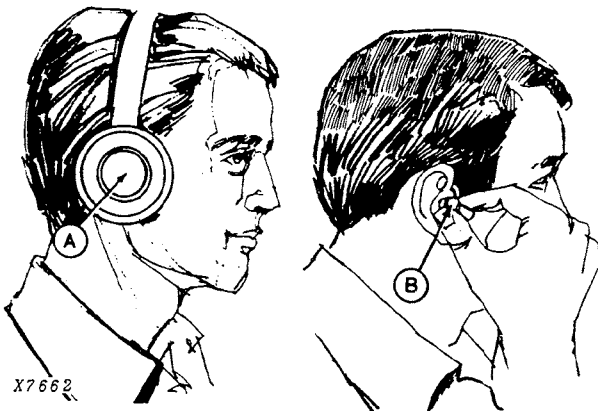
Use a seat-belt on a tractor with a roll-over protective structure.

Do not use a seat belt on a tractor without a roll-over protective structure.

OPERATING—Continued

- Use the recommended rear wheel ballast.
- Keep PTO clutch lever disengaged.
- Be sure no one is near tractor and loader.
- Do not allow riders on tractor or loader.
- Operate loader from operator's seat only.
- Carry load low at all times.
- Turn tractor at slow speeds.
- Reduce tractor ground speed when traveling over rough terrain.
- Avoid traveling over loose fill, rocks and holes.
- Do not overload loader.
- Avoid working on inclines.
- Drive slowly through gates and doors.
- Avoid handling loose or shiftable loads.
- Never use loader as a battering ram.
- Remain at controls until operating cycle is complete.
- Lower bucket or attachment to ground when loader is unattended.
- Never stand under a raised loader bucket or attachment.
- Beware of low wires when operating loader.

PROTECT AGAINST NOISE



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

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

A—Earmuffs
B—Earplugs

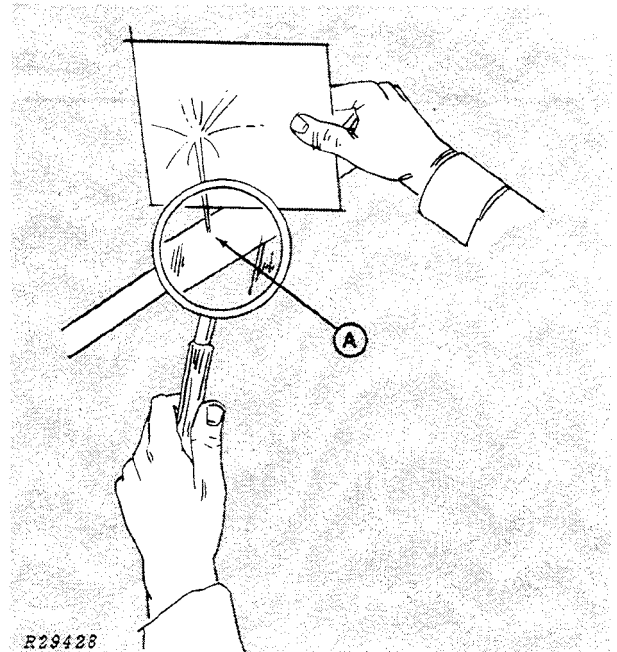
SERVICE AND STORAGE

Lower bucket or attachment to ground, shut off tractor engine and relieve pressure in hydraulic system before adjusting, lubricating, or servicing loader.

Check hoses, fasteners and other parts for damage. Make necessary repairs.

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes, and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than your hands to search for suspected leaks.

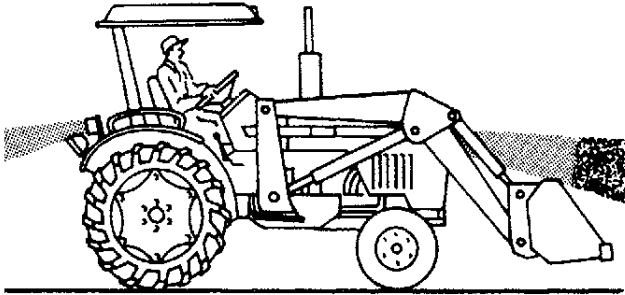
If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



A—Pin Hole Leak

If ROLL-GARD® protective equipment is loosened or removed for any reason, make certain all parts are reinstalled correctly. See your tractor operator's manual.

TRANSPORTING



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Reduce tractor ground speed when transporting a load.

Carry load as low as possible and maintain adequate visibility and ground clearance at all times.

Take extra care when traveling over rough terrain or on a slope.

When driving the tractor-loader on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local government regulations. Various safety lights and devices are available from your John Deere dealer.



Preparing The Tractor

TRACTOR SIZE

The John Deere 145 Farm Loader has been designed for use with John Deere 820, 830, 920, 1020, 1030, 1040, 1120, 1140, 1520, 1530, 1630, 1640, 1830, 1840, 2020, 2030, 2040, 2120, 2130, 2130 HFWD, 2140, 2240, 2440, 2630 and 2640 Tractors.

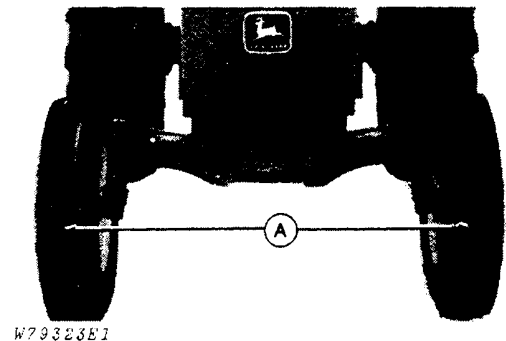
IMPORTANT: The 145 Farm Loader is not approved for tractors equipped with mechanical front wheel drive.

Tractor must be equipped with side frames.

FRONT TREAD

CAUTION: Do not use loader on tractors with Roll-O-Matic front end, double front wheel or single front wheel.

IMPORTANT: The front axle must be set at the 65 inch (165 cm) minimum tread setting so the loader does not interfere with the tractor front tires.



A—Tread Width

The 145 Loader is approved for tractors with swept-back axle, heavy-duty straight axle or regular straight axle.

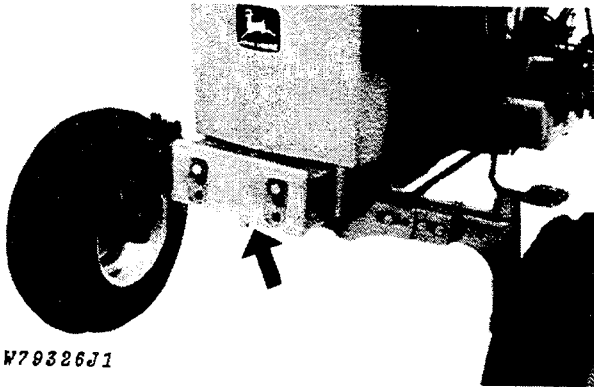
FRONT TIRES

⚠ CAUTION: Never operate the tractor with a loose rim, wheel or axle.

The tractor should be equipped with 7.50 x 16 6PR front tires or tires with equal to or greater tire ply rating.

Inflate tractor front tires 4 psi (0.3 bar) (27.6 kPa) above inflation pressure recommended for heavy front-mounted equipment as shown in tractor operator's manual.

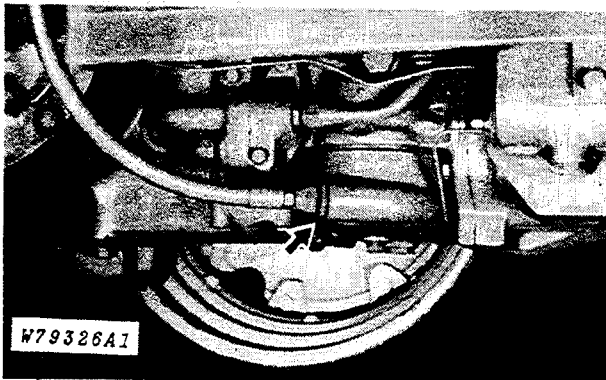
FRONT BALLAST



IMPORTANT: QUIK-TATCH™ weights must be removed from the front of the tractor when tractor is equipped with loader.

The QUIK-TATCH weight support may be left on the tractor.

HYDRAULICS



Independent Control Valve

Tractor remote cylinder controls are not required.

The tractor must be equipped with a ported cover on the transmission filter. If required, order an AT30197 Ported Filter Cover from your John Deere dealer.

IMPORTANT: A steel-encased filter element must be used with the AT30197 Ported Filter Cover.

Remote Cylinder Control Valves

A remote cylinder control valve oil return kit which returns oil to the oil filter cover is available for more efficient use of tractor hydraulics. Order AR71945 Remote Cylinder Control Valve Oil Return Kit and AT30197 Ported Filter Cover for transmission filter from your John Deere dealer.

IMPORTANT: A steel-encased filter element must be used with the AT30197 Ported Filter Cover.

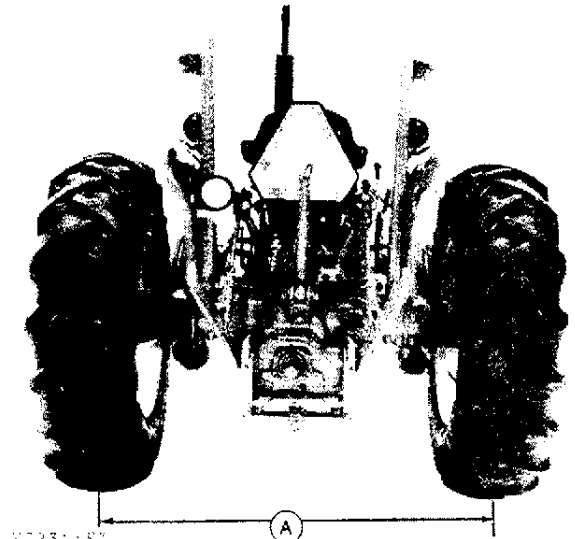
REAR TIRES

Inflate tires as specified in tractor operator's manual.

REAR TREAD

Use maximum rear tread to increase tractor stability. Refer to tractor operator's manual for instructions. Minimum rear tread setting is 65 in. (165 cm).

⚠ CAUTION: If rear tread is limited, reduce tractor transport speed and avoid holes and inclines.



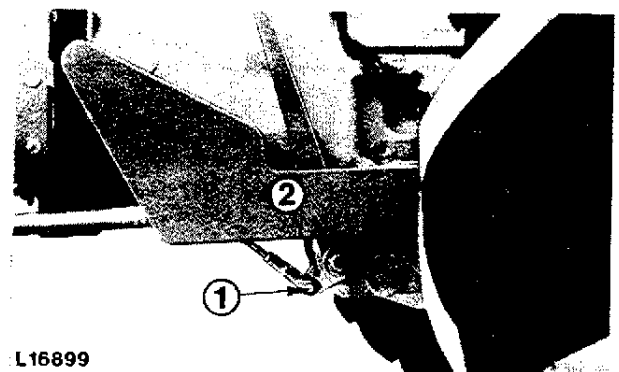
A—Tread Width

MAIN CLUTCH

Tractors Without Independent PTO Lever

The tractor is equipped with a dual-stage clutch. Disengaging the PTO clutch also disengages the transmission oil pump which supplies the main hydraulic pump. The PTO clutch must be locked out to prevent oil starvation during simultaneous clutch disengagement and loader operation.

1. Remove clutch rod from lower hole in pedal.
2. Attach clutch rod to upper hole.
3. Refer to your tractor operator's manual for complete instructions.



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Tractors With Independent PTO Lever

No adjustment required.

REAR BALLAST



CAUTION: To prevent tractor damage and maintain loader-tractor stability, add rear ballast as outlined below:

When operating the loader, maximum rear ballast and rear tread setting should be used.

A roll-over protective structure is recommended when operating the loader-tractor combination.

Minimum setting for front and rear tread is 65 inches (165 cm).

MINIMUM RECOMMENDED REAR BALLAST

Tractor	Rear Wheel and Axle Type	Added Weight Per Rear Wheel Lbs. (kg)
820, 830, 920 and 1020 RU	Adjustable Steel Wheels, Flanged Axle Only	500 (227)
	All Others	300 (136)
1020 HU	Adjustable Steel Wheels, Flanged Axle Only	700 (317)
	All Others	500 (227)
1030, 1040, 1120, 1140, 2040 and 2240	Adjustable Steel Wheels, Flanged Axle Only	950 (431)
	All Others	350 (159)
1520 RU, 1530 and 1630	Adjustable Steel Wheels, Flanged Axle Only	700 (317)
	All Others	100 (45)
2020 RU, 2030 RU and 2630 RU	Adjustable Steel Wheels, Flanged Axle Only	300 (159)
	All Others	100 (45)
2020 HU, 2030 HU and 2630 HU	Adjustable Steel Wheels, Flanged Axle Only	200 (91)
	All Others	100 (45)
1640, 1830, 1840, 2120, 2130, 2140, 2440 and 2640	Adjustable Steel Wheels, Flanged Axle Only	200 (91)
	All Others	0 (0)

NOTE: The amount of ballast recommended above is intended to help maintain stability and provide adequate traction during normal loader operation with materials-handling and manure buckets. Additional ballast up to maximum tire carrying capacity should be added, if necessary, when operating tractor and loader on uneven terrain, or to improve traction.

Refer to tractor operator's manual to install ballast.



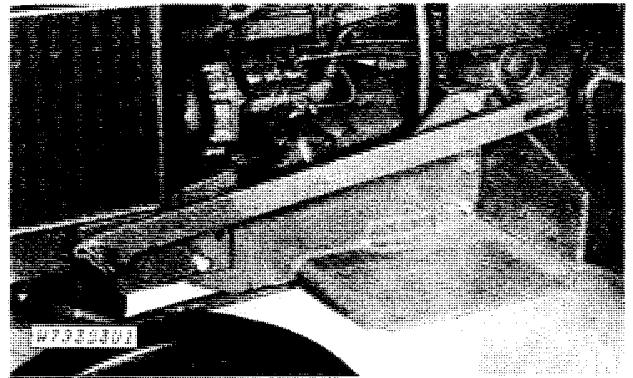
Attaching and Detaching

ATTACHING LOADER

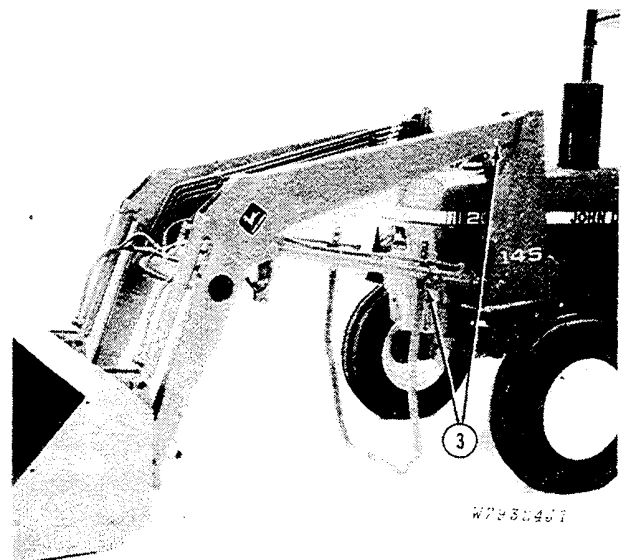
IMPORTANT: If mounting the loader for the first time, prepare the tractor and attach the loader as explained under "Assembly," pages 47 through 69.

CAUTION: Use mounting stand to attach loader only after the stand has been adjusted according to instructions under "Detaching Loader" pages 17 through 21.

1. Swing lift link back onto mounting frame.

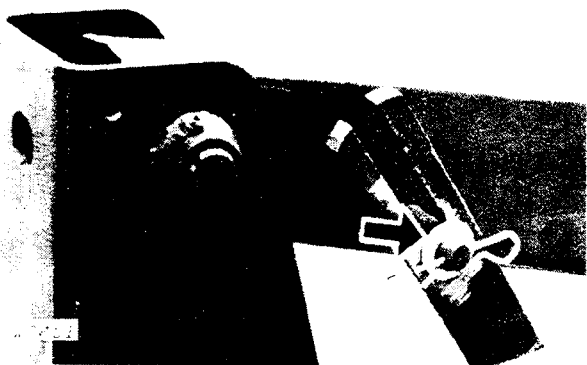


2. Advance tractor slowly between loader just enough to attach lift link to boom.
3. Remove hardware from lift cylinder clamp and place pin in boom.

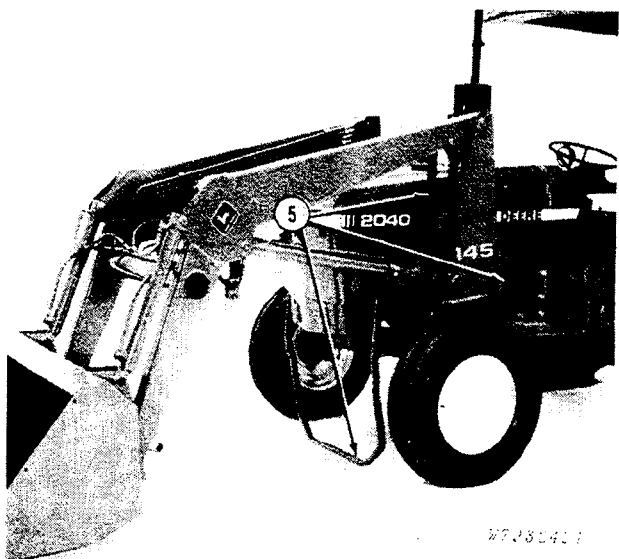


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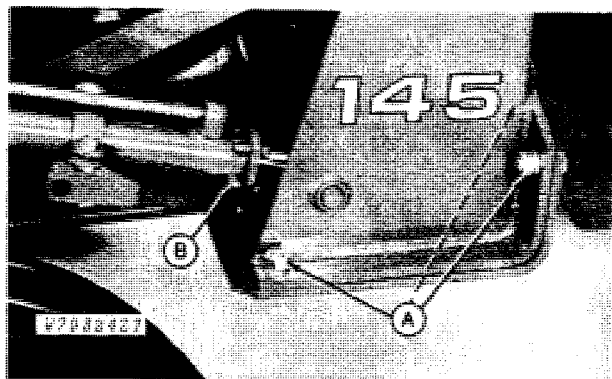
ATTACHING LOADER—Continued



4. Attach lift link to boom with pin, spacer, washer and spring lock pin.



5. Advance tractor slowly. Lift link will raise loader. Mounting stand will swing off ground. Lift link will lower loader masts onto mounting frames.



1640, 1840 and 2140 Tractors

6. Attach 145 Loader masts to mounting frames at "A" and "B" with four 3/4 x 2-inch cap screws, lock washers and hex. nuts. Repeat on other side of tractor.

All Other Tractors

Attach 145 Loader mast to mounting frame with three 3/4 x 2-inch cap screws, lock washers and hex. nuts at "A" and one 3/4 x 3-inch cap screw, lock washer and hex. nut at "B." Repeat on other side of tractor.

Tighten hardware to 300 ft-lbs (407 N·m) torque.



Suggest:

If the above button click is invalid.

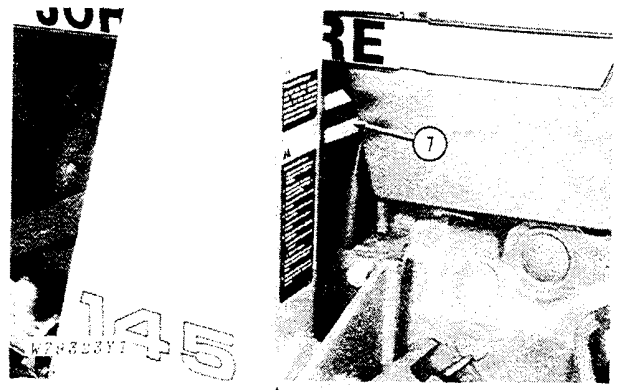
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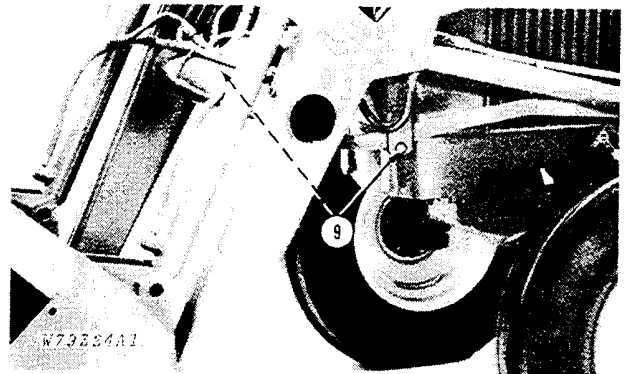
7. Detach lift link and place into support strap.



8. Replace washer and spring locking pin.



9. Attach stand to storage brackets under boom with a pin and spring locking pin.



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