# 1845&1845S
# UNI-LOADER

## OPERATORS MANUAL

9-4915

CASE

Reprinted

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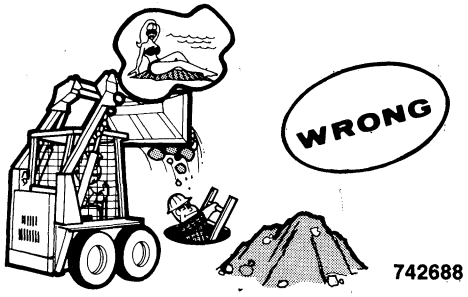
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**WARNING:** *Steering control levers may not automatically return to neutral position during cold weather start-up. Operate vehicle at very slow speeds until vehicle reaches normal operating temperature.* *D-9-9*




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**WARNING:** *Understand the limits of the machine. Keep the machine under control at all times. DO NOT TRY TO DO TOO MUCH TOO FAST.* *3-7-B*

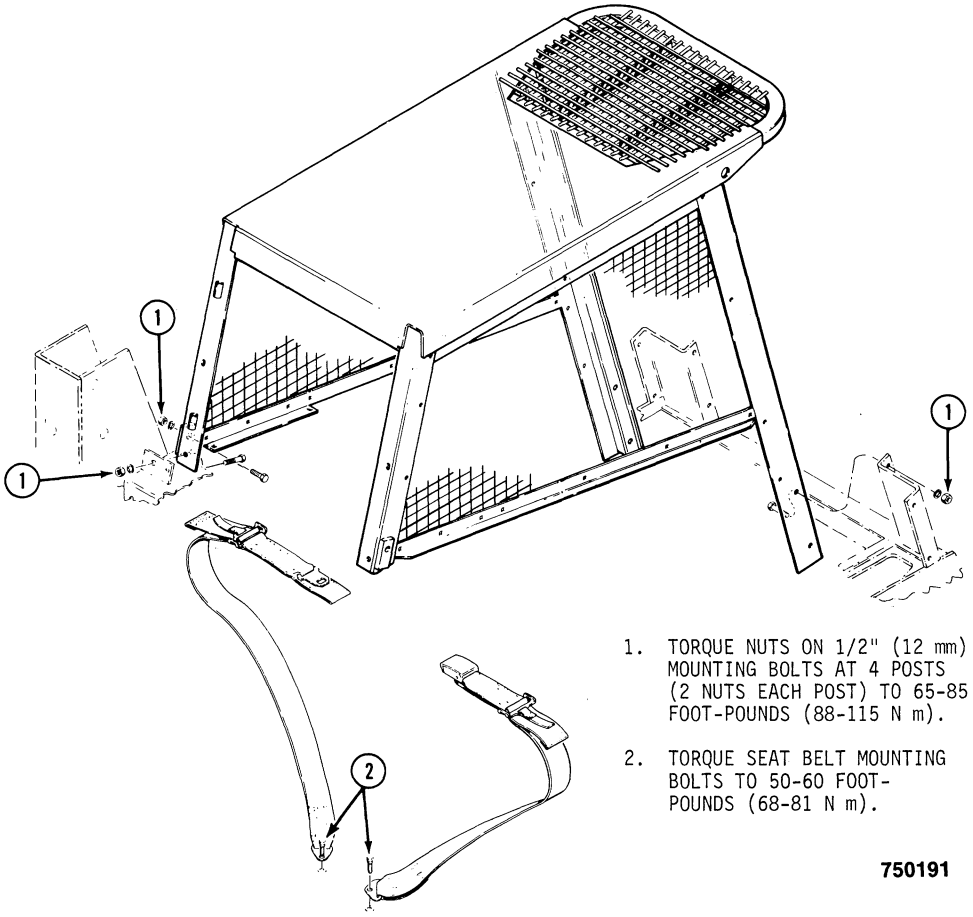
**CAUTION:** *Always carry load low.* *D-9-10*

**WARNING:** *When you operate the machine, keep the loader bucket as low as possible. This low position gives better balance and permits you to see more clearly. If you move the machine with a full loader bucket over ground that is rough or surfaces that can cause the machine to slide, always operate at a slow speed. If you do not use this procedure, the machine can go out of control and cause a roll-over.* *18-6-C*




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**CAUTION:** *Before you operate at night, check that all lights (if the machine is so equipped) are working correctly.* *25-7-A*




1. TORQUE NUTS ON 1/2" (12 mm) MOUNTING BOLTS AT 4 POSTS (2 NUTS EACH POST) TO 65-85 FOOT-POUNDS (88-115 N m).
2. TORQUE SEAT BELT MOUNTING BOLTS TO 50-60 FOOT-POUNDS (68-81 N m).

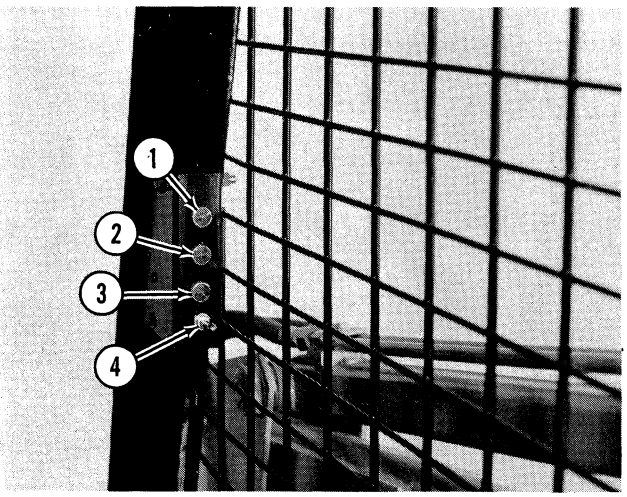
**750191**

ROPS Torque Specifications

## Safety Rules for the ROPS

**WARNING:** *Do not modify ROPS in any manner. Unauthorized modifications such as welding, drilling, cutting or adding attachments could weaken the structure and reduce your protection. Replace ROPS if subjected to rollover or damage. Do not attempt to repair. See operator's manual for complete instructions and inspection requirements.* D-46-91

## WARNING LIGHT PANEL




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1. WARNING LIGHT FOR TRANSMISSION OIL PRESSURE: This light illuminates when the hydrostatic charge pump pressure is too low. Do not operate the engine with the light on. Check the hydraulic oil level.

   **NOTE:** The bulb can be checked with the engine stopped and the key switch on.

2. WARNING LIGHT FOR TRANSMISSION OIL TEMPERATURE: This light illuminates when the hydrostatic oil temperature is excessively high. If the light should come on, stop the engine and check the oil cooler for obstructions.

   **NOTE:** The bulb can be checked with the switch located under the warning lights.

3. WARNING LIGHT FOR TRANSMISSION FILTER RESTRICTION: This warning light will illuminate when the filter is restricted and must be changed. Do not operate the engine if the light illuminates.

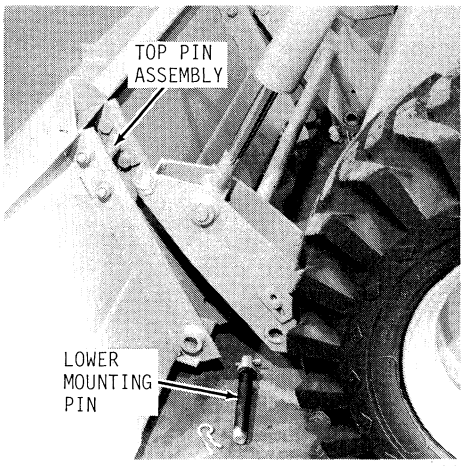
   **NOTE:** The bulb can be checked with the switch that is located under the warning lights.

4. WARNING LIGHT SWITCH: This switch is used to determine if the transmission temperature and filter warning lights are functioning properly. With the key switch on, push the switch to the right to check one bulb and to the left to check the other bulb. If one or both bulbs do not illuminate, replace the bulb.

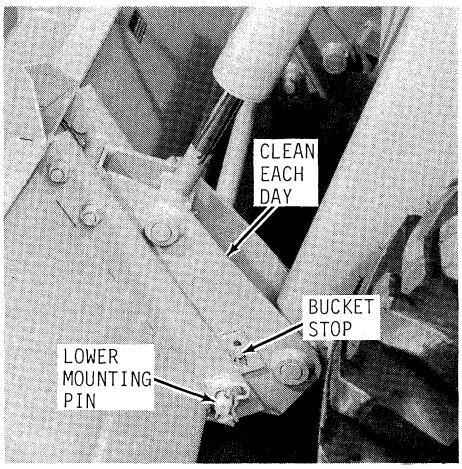
# TOOL-TACH

The Tool-Tach allows quick alignment of the bucket. Refer to the following instructions when installing the Tool-Tach for the first time or if removed for service.

1. Be sure the eight mounting bolts on the two top pin assemblies are just snug. Refer to the following illustrations.



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796790

2. Pick up the bucket with the loader and roll back slightly.

3. Lower the loader arms and stop the engine.

4. Install the two lower mounting pins driving them toward the outside of the bucket. Install a hair pin on each pin.

5. Drive the two top pin assemblies down into the "V" on each side of the bucket. It is very important that they are tight in the "V".

6. Torque the pin assembly mounting bolts from 65 to 85 lb-ft (88 to 115 N m).

7. Install a bucket stop on each side of the Tool-Tach and snug the mounting bolts. Tap the stops down until snug. Tighten the mounting bolts to a torque of 25 to 35 lb-ft (34 to 47 N m).

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5. Start the engine.

6. Disconnect the negative jumper cable from the engine. Disconnect the positive cable from the starter solenoid.

## Engine Idling

During long engine idling periods, the engine coolant temperature may fall below the normal operating range. Incomplete combustion in a cold running engine causes crankcase oil dilution, formation of lacquer and gummy deposits on valves, pistons and rings. Rapid accumulation of crankcase sludge will result.

Operate at 1/4 throttle when prolonged engine idling is necessary.

## Stopping the Engine

1. Idle down the engine for a few minutes before stopping.

2. Lower the loader lift arms to the ground.

3. Set the parking brake.

4. Turn the key to the OFF position (pull the fuel shutoff out on the diesel engine).

# RUN-IN MAINTENANCE CHART

| INTERVAL | SERVICE | INSTRUCTIONS |
|---|---|---|
| Run-In Period After First 2 Hours | Check fan belt tension. | See page 89 |
| | Torque wheel nuts every 2 hours until stable 80 to 90 lb-ft (108 to 122 N m) | See page 52 |
| Run-In Period After First 20 Hours | Have your J I Case dealer perform the checks and services listed in the After Delivery Checkup. | See page 105 |
| Run-In Period After First 100 Hours of Operation | Check chain tension | See page 90 |

# SCHEDULED MAINTENANCE CHART

| INTERVAL | SERVICE | INSTRUCTIONS |
|---|---|---|
| Every 10 Hours or Daily Whichever Occurs First | Check engine oil level. | See page 63 |
| | Check hydraulic oil level. | See page 85 |
| | Check radiator coolant level and check radiator for obstructions. | See page 74 |
| | Check hydraulic filter condition indicator. | See page 28 |
| | Check hydrostatic system warning lights. | See page 29 |
| | Grease loader and attachment pivot points. | See page 62 |
| | Clean air cleaner dust cup. | See page 65 |
| | Clean or replace all safety and instruction decals that can not be read. | See page 94 |
| | Fill fuel tank. | See page 71 |
| | Visually check machine for broken, missing or loose parts. Check for leaks under the machine. | ----- |
| | Check tires for deep cuts, imbedded rocks, etc. | ----- |
| Every 50 Hours of Operation | Check battery fluid level. | See page 79 |
| | Check tire pressure. | See page 23 |
| | Grease drive chain cluster sprockets. | See page 62 |

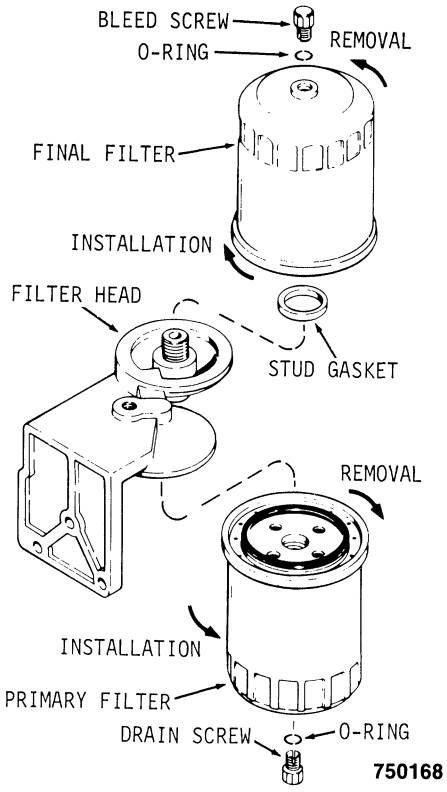
## Fuel Filters

The fuel filters should be drained of water as required. Loosen the drain screw on the bottom of the primary filter. Tighten the drain screw when water-free fuel starts draining out of the filter.

The fuel filters themselves should be replaced every 500 hours. Disconnect the hose which runs between the fuel tank and primary fuel filter at the primary filter. Plug the end of the hose to prevent loss of fuel. Remove drain screw on bottom of primary filter and remove bleed screw from final filter to drain both filters.

After fuel has stopped draining, remove the fuel filters with a filter strap wrench. Apply a thin film of clean oil or grease to the gaskets on the new primary and final stage filters. Install the filters by turning clockwise until the gasket contacts the filter head. Hand tighten 1/2 of a turn. Loosen the filters and retighten after gasket contract is made, 1/2 to 3/4 of a turn to obtain a proper seal.

**NOTE:** Excessive final tightening will damage the gaskets and filters.



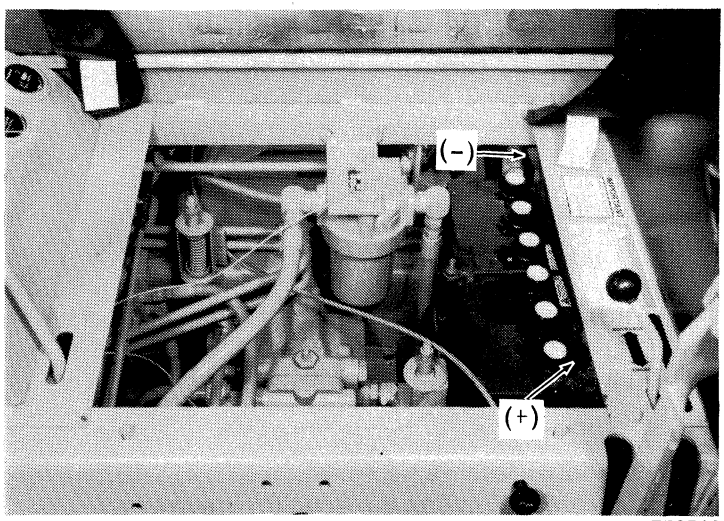
## Fluid Level of the Battery

Check the fluid level of the battery after the first 20 hours of operation. Then check the fluid level of the battery after every 50 hours of operation. Check the fluid level more often during hot weather. If the fluid level is low, add clean or distilled water to each cell until the fluid level is at the split ring at the bottom of each cell opening. Do not fill the cells above the split rings.

**NOTE:** Add water only. Do not add electrolyte to the battery.

A battery that used a large amount of water over a period of time indicates a high battery temperature and/or a high setting for the voltage regulator.

A battery that uses a small amount of water over a period of time probably has a low charge. Other possible causes are battery cable connections which are bad or a low setting for the voltage regulator.




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Check the battery regularly for dirt, corrosion and damage. Dirt, mixed with electrolyte or moisture on the top of the battery, can cause a discharged condition in the battery. Use one of the following methods to clean the battery.

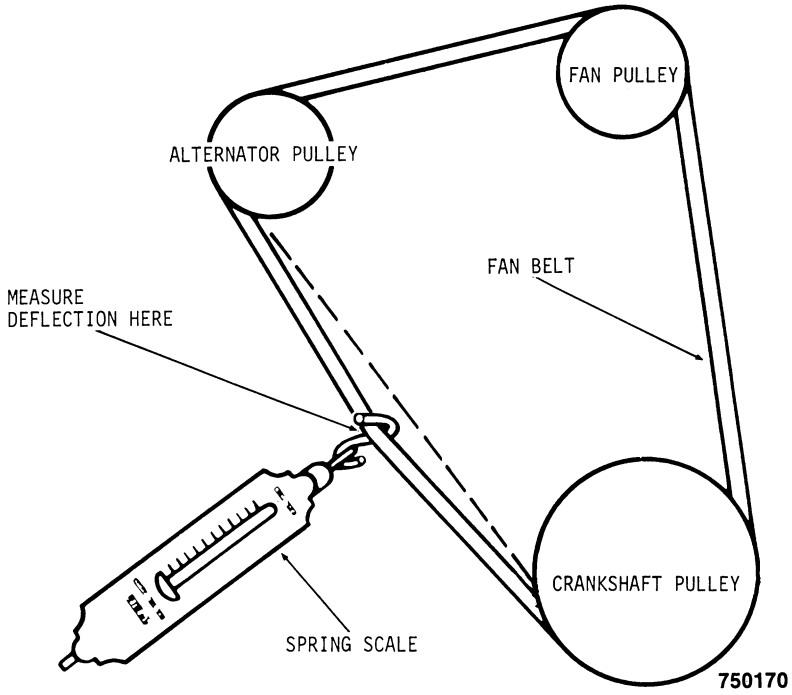
1. Use J I Case Battery Saver, part number M20376. Follow the instructions on the container. This cleaner does not need water.

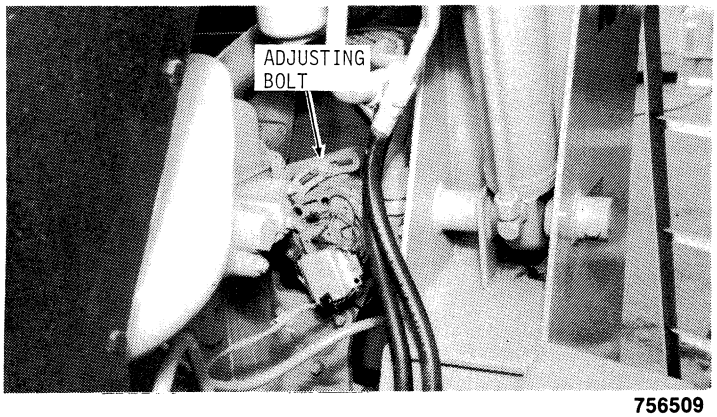
2. Use baking soda or ammonia and flush the battery with clear water. If you do not have J I Case Battery Saver, use other special cleaners to prevent corrosion on the battery terminals.

# FAN BELT

Check the fan belt tension after the first two hours of operation and every 100 hours thereafter. Proper belt tension will give approximately 1/2" (12 mm) deflection with 15 lbs. (6.8 kg) force on a spring scale. Check the belt tension between the alternator pulley and the crankshaft pulley.

To adjust for proper tension, loosen the alternator adjusting bolt and reposition alternator as required. Tighten the bolts after the adjustment has been made.

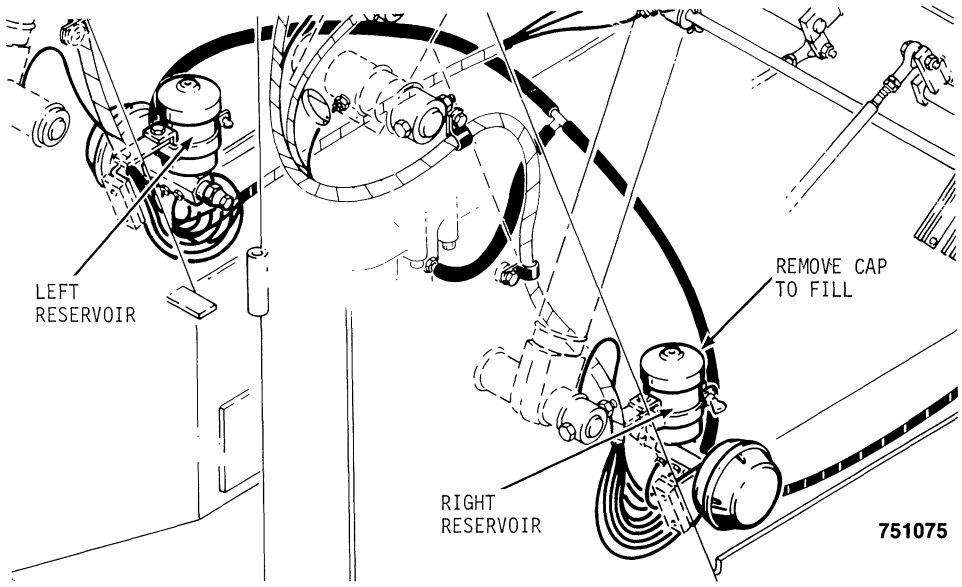



Alternator Adjusting Bolt

# Loader Lubrication System (If so Equipped)

An automatic lubrication system is built into the machine. Each time the engine is started, grease is pumped to each pivot point. The system includes two greasers, lines and fittings located at the pivot points. Refer to the following illustration.




## Operation

The loader pivots are lubricated each time the engine is started. Each fitting receives a measured amount of grease. Check each pivot point periodically to be sure it is receiving grease.

## Lubricant

**NOTE:** The late production 1845S machines have a grease fitting at each of the loader pivot points. See page 57. Lubricate each pivot point every 10 hours of operation or each day.

When refilling the reservoirs, fill with multi-purpose, fluid type, water resistant grease. The following lubricants can be used:

1. Standard Oil Co. - Rykon-R-Multi Luber Grease.
2. Phillips 66 Oil Co. - Philube-R Grease.
3. Riley Bros. - Multi-Luber Grease.

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