

1450 Loader

Operators Manual

9-4492

Reprinted

The CASE logo is located on the right side of the page, within a dark grey vertical bar. It consists of the word "CASE" in a bold, italicized, sans-serif font, with a horizontal line underneath the letters.

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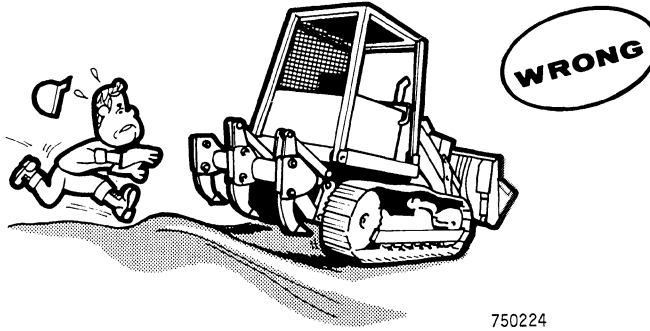
WARNING: BE PARTICULARLY CAREFUL IF THIS IS NOT THE MACHINE YOU WOULD NORMALLY OPERATE.

2-2



CAUTION: Never leave the operator's seat or service machine with the engine running unless otherwise specified in the operator's manual. Machine runaway and a serious accident could result.

34-3



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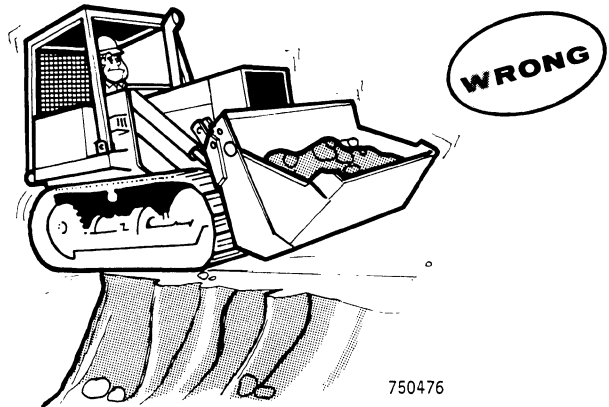
WARNING: Both direction control levers or both track speed levers must be in Neutral to fully disengage the transmission.

38-10



WARNING: Do not work under overhangs or where there is a danger of a slide. A serious accident could result.

41-10



750476



WARNING: Use extreme caution when handling large boulders. The boulder may pitch to one side without warning.

46-3



CAUTION: Each ripper tooth weighs approximately 130 pounds (59 kg). Use caution when handling.

46-4

CAUTION: *Hydraulic systems are highly pressurized. Escaping hydraulic oil, even an invisible pinhole leak, can penetrate body tissues causing serious injury. Use a piece of wood or cardboard when looking for leaks - never use the hands or other parts of the body.*



Relieve hydraulic pressure before disconnecting circuits. When reassembling, make absolutely certain that all connections are tight.

If injured by hydraulic oil escaping under pressure, see a doctor immediately. Serious complications may arise if medical attention is not given at once.

43-7

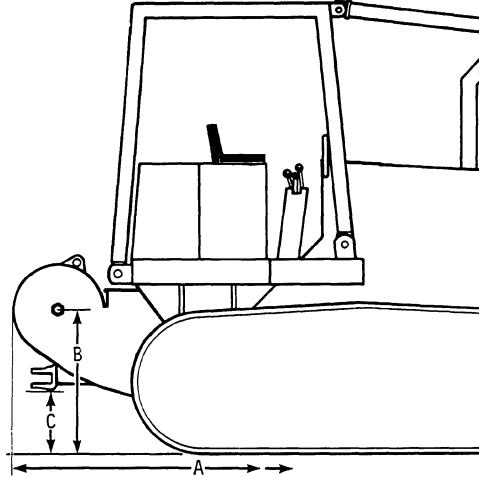
Engine Coolant Additive Case Part No. 331-508

WARNING: *Alkaline solution. Keep out of reach of children. Do not get in eyes, on skin or on clothing. Use this product only as directed on the container. For first aid (1) in case of contact, immediately flush eyes or skin with water for at least 15 minutes (2) if swallowed, induce vomiting, following by large quantities of water. Call a doctor immediately. If clothing is contaminated, remove and wash. Flush skin as stated above.*



47-20

Dimensions



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- A Overall length of machine
to rear of winch 18 feet 8 inches (5690 mm)
- B Height from center of drum to
ground 41 inches (1041 mm)
- C Ground clearance at rear of winch . . . 20 inches (508 mm)
- Ground clearance with fairleads 20 inches (508 mm)

Fairleads

- Number of fairlead rollers 4
- Throat opening 13 inches x 14 inches
(330 x 355 mm)
- Weight of fairleads 594 pounds
(269 kg)

Log Arch

- Number of rollers 3 or 4
- Throat opening 9 inches x 10 inches
(229 x 254 mm)
- Weight of integral rollers 1100 pounds
(499 kg)
- Weight of optional roller 115 pounds
(52 kg)

HYDRAULIC SYSTEM PRESSURE

- System relief pressure 2500 ± 50 psi @52 gpm @2100 rpm
(17 238 ± 345 kPa @197 l/min @2100 rpm)

4. Be sure the engine fuel shutoff control is pushed in all the way.
5. Turn on the master disconnect switch and depress the starter button. If the engine fires and stops, wait for the starter motor to stop turning before re-engaging. Check the instruments as soon as the engine starts.

NOTE: Do not operate the starter motor more than 30 seconds at one time. Allow a three minute cooling time between each cranking. While the engine is being cranked, white or black smoke should be observed at the exhaust stack. Check the fuel supply if none is seen.

6. As soon as the engine starts, observe all gauges to make sure the crawler is functioning properly.

Idling

Prolonged idling results in low engine operating temperatures. This condition can result in destructive acid formation, heavy valve deposits and possible serious damage to the engine. Proper operating temperature keeps the engine clean and efficient.

Stopping

Reduce engine speed to low idle and run for a few minutes. Pull out the fuel shutoff control. When the engine has stopped, turn off the master switch, remove the key and push in the fuel shutoff control. Set the parking brake.

Starting Aids

Ether Injection

This starting aid electrically injects ether into the air intake system. To operate, turn the master switch on and engage the starter. At the same time, depress the starting aid button from 3 to 5 seconds. Ether will be injected as long as the button is depressed.

NOTE: Use ether for starting only.

4. When not operating, park the machine out of the mud or water.
5. Cover the exhaust stack at the end of the day's work.
6. Fill the fuel tank at the end of each shift.
7. See your Authorized Case Dealer for further cold weather aids. They include dipstick heaters, ether injection, battery heater, percolator type coolant heaters, etc.
8. Prime the engine turbocharger with oil before starting the engine.
9. Operate the engine at speeds high enough to maintain proper operating temperatures. Idling the engine will lower the coolant temperature.

HOT WEATHER OPERATION

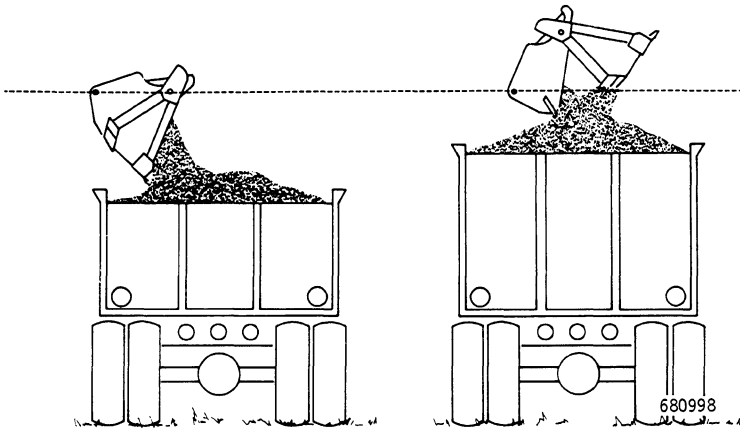
Observe the following precautions carefully to assure efficient operation during hot weather.

1. Check the coolant level at frequent intervals and be sure the radiator cap is tight. Replace a defective radiator cap immediately.
2. Keep the radiator free of trash.
3. Check fan belt tension frequently.
4. Follow the lubrication schedule carefully.
5. Empty the air cleaner dust cup several times daily when operating in heavy dust conditions.
6. Scan the instruments frequently for proper indication.

Truck Loading

Level off the approach area and spot the truck so that the wind will be at your back when dumping. Set the bucket height control for the desired dump height.

Start raising the bucket so that it will clear the side of the truck at the time of arrival. Ease up to the truck using the power transfer pedal and stop the machine with the power brakes. Dump the bucket and back away from the truck. Place the control in Return-To-Dig, stopping the bucket at a safe carrying height.



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5. Install hook or eye on the working end and attach to a deadman. Be sure that the following step is accomplished on level ground.
6. Release the parking brake, shift the track speed levers to Neutral, shift the direction levers to either Forward or Reverse, select Low range and raise the bucket.
7. Carefully winch in the line. Use the power brake pedals to steer the crawler. This will control the spooling of the cable on the drum. It is very important that the cable be wound close together in tight, even layers. The cable will jam on the drum if installed too loose.

WINCH OPERATING TIPS



DANGER: Be sure the machine is equipped with ROPS and that the rear screen is properly installed before operating the winch.

10-10



CAUTION: Use extreme caution when working the winch around other machines.

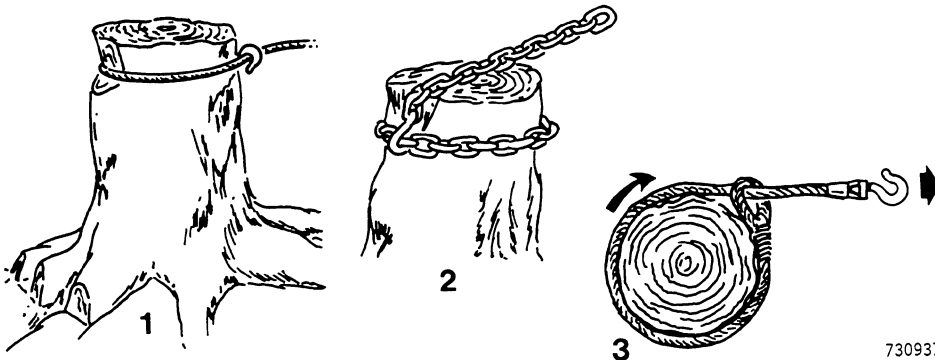
11-6

Jammed Cable

Always keep the cable tight and even on the drum. If the lower layers are loose, the cable will jam when a heavy load is applied. If the cable can not be pulled free by hand, attach the line to a deadman. Move the crawler forward slowly and pay out the line as the cable tightens. Use care not to kink the line.

Pulling Stumps

The following illustration shows three stump pulling methods. The first is a straight pull with a short choker attached near the top. A groove is cut in the back of the stump to lessen the possibility of slipping. If the stump is stubborn, cut the main roots on the back side.



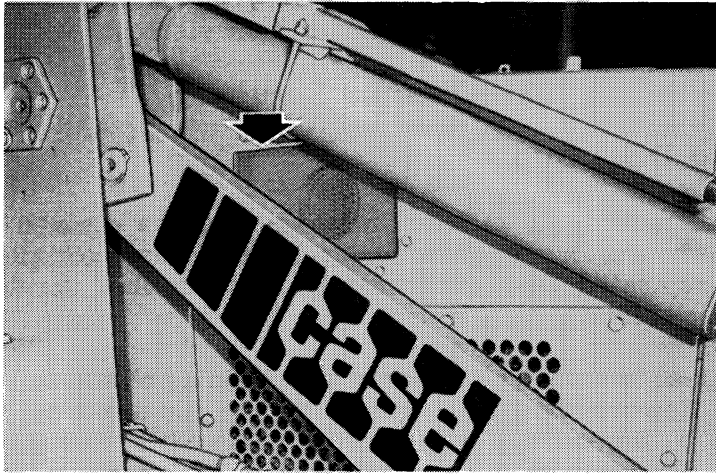
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RUN-IN MAINTENANCE CHART

INTERVAL	SERVICE	INSTRUCTIONS
Run-In Period After First 20 Hours	Tighten track shoe bolts 190 to 230 ft-lbs. (258 to 312 N m). Check every 125 hours thereafter until track shoe bolts remain tight. Have your Case dealer perform the checks and services listed in the After Delivery Checkup.	_____ See page 133
Run-In Period After First 40 Hours	Drain and refill winch oil.	See page 126

SCHEDULED MAINTENANCE CHART

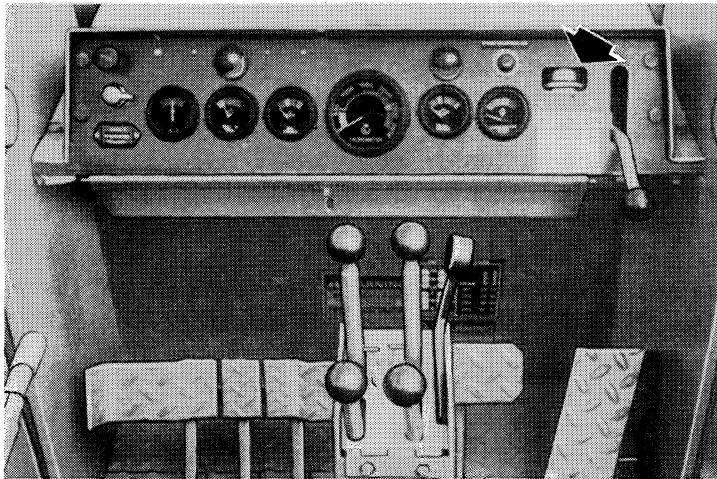
INTERVAL	SERVICE	INSTRUCTIONS
Every 10 Hours or Daily, Which- ever Occurs First	Check engine oil level.	See page 85
	Check transmission oil level.	See page 113
	Check manual brakes and parking brake.	See page 119
	Check hydraulic oil level.	See page 110
	Clean air cleaner dust cup and intake screen or rain cap.	See pages 88 and 90
	Check radiator coolant level and clear obstructions.	See page 95
	Check fuel sediment bowls for water or sediment. If found, drain bowls, 1st stage filter and fuel tank.	See page 99
	Grease equipment pivot points.	See page 81
	Check track tension, adjust as required.	See page 117
	Check under machine for leaks.	_____ _____
Check machine for broken, loose or missing parts.	_____ _____	
Every 125 Hours	Clean all safety messages (decals) on the machine. Use a soft damp cloth. Do not use solvents or fuel to clean decals. Replace all safety messages that can not be read.	_____ _____
	Drain and refill engine crankcase oil.	See page 85
	Check final drive oil level.	See page 116
	Check fan belt tension.	See page 121
	Check battery electrolyte level.	See page 105
	Clean transmission breather on dipstick.	See page 115
	Grease control lever pivots.	See page 84
Grease brake pedals.	See page 82	
Grease universal joints (severe operating conditions only).	See page 83	



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Restriction Indicator

The air cleaner must be serviced whenever the restriction indicator red signal band remains in view.



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Restriction Indicator

Restricted Elements

NOTE: Check the restriction indicator only when the engine is running.

When the air cleaner elements are dust free and the intake air flow is unrestricted, the red signal band on the indicator will stay out of sight below the level of the indicator window.

HAND PRIMER PUMP - The primer pump supplies fuel pressure when bleeding air from the fuel filters and lines.

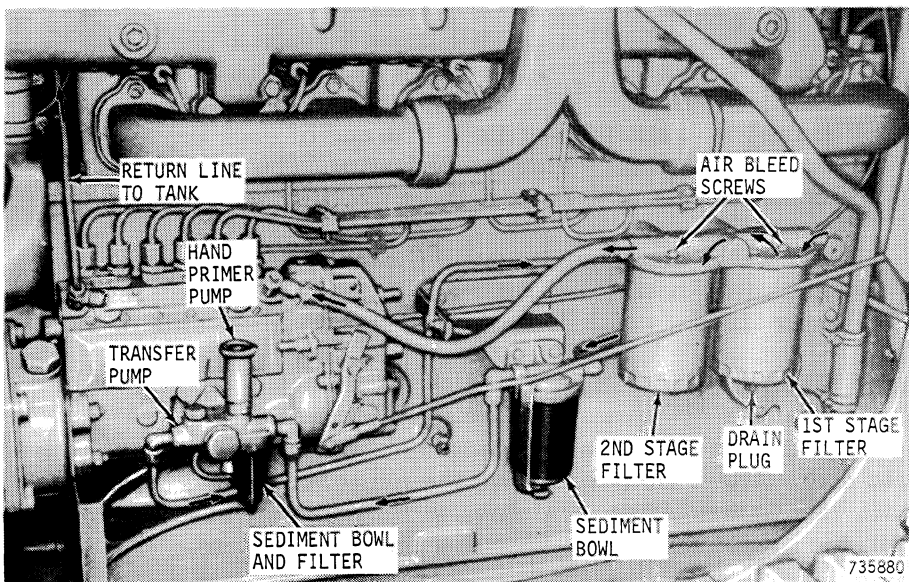
FUEL FILTERS - The filters are the spin-on type. They are installed and replaced together as a set. Both filters have air bleed valves on top, but only the first stage filter has a water drain valve on the bottom.

FUEL INJECTION PUMP - The pump receives fuel from the filters, and meters and distributes the fuel under high pressure to the injectors. Fuel in excess of engine demand goes into a return line back to the tank.

FUEL INJECTORS - The injectors direct fuel into the combustion chambers in a definite spray pattern. Excess fuel from each nozzle goes into the return line back to the tank.


Cleaning the Fuel System

Water and sediment that collect in the fuel system must be removed regularly. Check the sediment bowls daily. If water or deposits are found, clean both sediment bowls, drain the first stage fuel filter and fuel tank water trap. Excess water can be traced back to the supplier or improper storage.

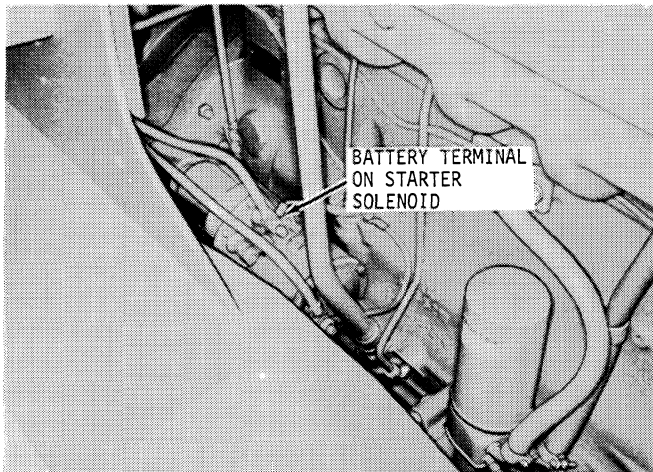


2. If all cells read between 1.200 and 1.260 and the variation between the high and low cell is less than 30 gravity points, the battery is good. It may be necessary to charge the battery prior to putting the battery in service.
3. If all cells read between 1.200 and 1.260 and the variation between the high and low cell is 30 gravity points or more, fully charge battery and recheck specific gravity. If the variation is still 30 gravity points or more after charging, the battery is defective and must be replaced.

Booster Batteries

 **WARNING:** To jump start this machine, connect positive jumper cable to battery terminal on starter solenoid and connect negative jumper cable to good engine ground. Start engine only when seated in operator's seat with seat belt fastened. Stop engine before leaving machine. Disconnect jumper cables. Any other method could result in uncontrolled machine movement. D-18-7

IMPORTANT: The alternator will be seriously damaged if booster cables are not connected negative-to-negative and positive-to-positive. The engine has a 24 volt electrical system; be sure the booster battery constitutes a 24 volt system.



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BRAKE SYSTEM

Parking Brake/Manual Brake Adjustment

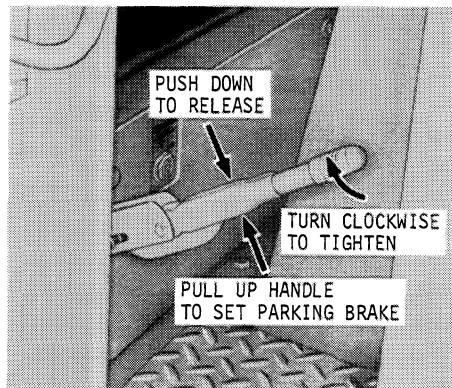
The parking brake and the manual foot brake are connected together and should be checked daily. Minor adjustments for the parking brake can be made at the parking brake handle. The major adjustment for both the foot pedal and parking brake is made just below the manual pedal pivot.

NOTE: With the manual brakes fully adjusted there will be no slack in the cable and the pedal will be against the upper stop when released. When the brakes are applied the clearance from the pedal to the full travel pedal stop will then be approximately 2 inches (51 mm). The major brake adjustment should be made when the brake system wears so that there is 1 inch (25 mm) clearance remaining and it must be made before the applied pedal can contact the stop.

Minor Parking Brake Adjustment

NOTE: The parking brake and also the manual foot brake must hold the machine from moving. Position the transmission in third gear and operate the engine at full throttle.

Release the parking brake (handle down) and depress the brake pedal several times with sufficient force to actuate the self adjusters in the brake assemblies. Then turn knob on end of handle clockwise. Apply parking brake and check adjustment. If parking brake does not hold, perform the major brake adjustment.



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Procedure to Put a Ferrule on a Cable

IMPORTANT: See your Case dealer and order the correct size ferrule for the cable you are using. A loss of strength will result if the ferrule is too large.



CAUTION: Use leather gloves and caution when installing, reversing or removing the cable.

11-3

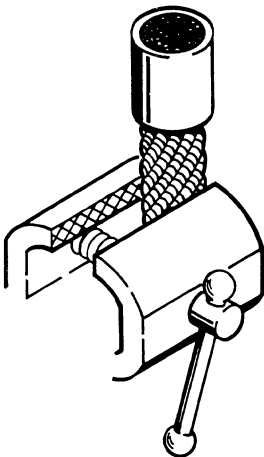


CAUTION: Do not work a damaged cable. Damage can be detected by sharp kinks, broken strands or a decrease in cable diameter.

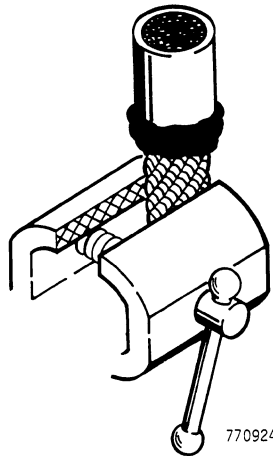
11-7

NOTE: If you are putting a ferrule on a cable that has been used, inspect the cable first. Do not use a cable that has been damaged. Do the following to install a ferrule.

1. Cut the cable evenly on the ferrule end.
2. If the cable has a hemp rope center, remove 1 inch (25 mm) of hemp rope from the cable center.
3. Put the ferrule on the cable. See the following photograph. Open the strands of the cable.
4. Clean the end of the cable in solvent.



Ferrule Installed on Cable
Correctly



Put Wet Clay Around
Bottom of Ferrule

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