

W30 Loader

Operators Manual

9-8722

Reprinted

CASE

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SAFETY

MACHINE OPERATION

 **WARNING:** Be careful at all times. Keep the area clear of persons who are not authorized to be there. Know the location of authorized persons in the area. 2-3-B


 **WARNING:** Operate the controls only from the operator's seat. Personal injury can be caused if you operate the controls from any other location. 2-5-A


 **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

 **DANGER:** Do not permit any part of the machine to come in contact with electric cables. If work must be done near electric cables, first make sure the Utility Company disconnects the power. It is not necessary for the machine to be in contact with the electric cable for the electricity to go through the machine. If the machine does come in contact with a power line, stay in the seat. Do not try to get off the machine. **KEEP AWAY FROM THE METAL PARTS OF THE MACHINE.** See the chart that follows. 4-4-B

Voltage of Electric Cables	Minimum Amount of Clearance from the Electric Cables When the Machine is Working	Minimum Amount of Clearance from the Electric Cables When You Drive the Machine Between Jobs
50,000 volts or less	10 feet (3 m)	4 feet (1.2 m)
Over 50,000 volts	10 feet (3 m) plus 1/2 inch (13 mm) for every 1,000 volts over 50,000 volts	10 feet (3 m)
345,000 - 750,000 volts		16 feet (5 m)

NOTE: If the clearances in the specifications above are less than the clearances given in the rules and laws of your area, you must follow the rules and laws of that area. 781171

 **WARNING:** Do not drive the machine unless the air pressure gauge needle can be maintained in the green zone. 5-1

 **WARNING:** You can operate this machine only after the warning buzzer for the air pressure has stopped making noise. 12-10-A

ROPS



WARNING: Do not remove the ROPS except for service. Install the ROPS correctly before you operate the machine again. 3-10-A



WARNING: If you must replace the ROPS, ROPS mounting parts or ROPS hardware, always make sure that you use the replacement parts shown in the Case parts catalog for this machine. 4-9-B



WARNING: Do not install attachments that will cause the total gross weight of the machine to exceed the weight shown in the "FOR MAXIMUM GROSS MACHINE WEIGHT" space on the ROPS label. D-46-56-A



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 all damaged parts if subjected to rollover or damage. Do not attempt to repair. See operators's manual for complete instructions and inspection requirements. D-46-91-A

CAST IRON PARTS



WARNING: Cast iron parts on this machine must not be welded. If you weld a cast iron part, the weld on that part can break and cause an accident. 49-8

Before you weld a part on this machine, make sure the part is not cast iron. See your Case dealer if you do not know if a part is cast iron.

MACHINE TRANSPORT



WARNING: When transporting the machine on a trailer, be sure to drive on and off squarely so as not to drive off the side of the trailer and tip the machine. 2-10



WARNING: Before you put the machine on a trailer, remove all ice, oil or grease from the trailer and ramp. 46-76-A

CONTROLS AND INSTRUMENTS _____



6. **PARKING BRAKE:** This brake has two positions, ENGAGED and DISENGAGED. Pull the knob up to ENGAGE the parking brake and push the knob down to DISENGAGE the parking brake. The parking brake will automatically engage if the air pressure moves into the red zone on the air pressure gauge. The pointer of the air pressure gauge must be in the green zone before you can release the parking brake. When the parking brake is engaged, the clutch will disengage and the clutch oil pressure warning lamp will illuminate.

7. **LAMP SWITCH:** The lamp switch has four positions:



1. OFF



2. FLOOD LAMPS



3. HEAD LAMPS, TAIL LAMPS, and FLOOD LAMPS



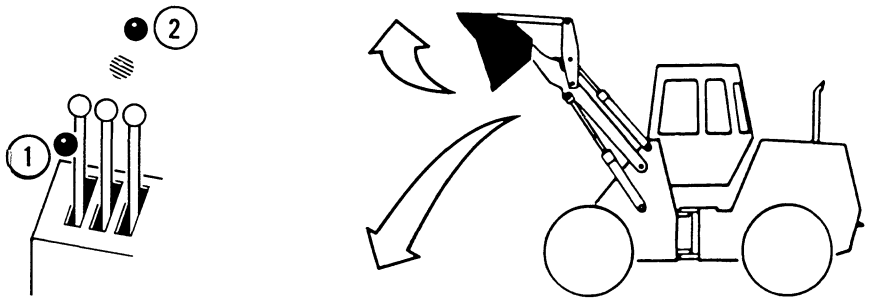
4. HEAD LAMPS and TAIL LAMPS

CONTROLS AND INSTRUMENTS _____

Return-To-Dig

The Return-To-Dig is used to automatically put the bucket into position for the next load.

After the load is dumped, put the bucket control lever in the **ROLLBACK** position and the lift arm control lever in the **FLOAT** position. When the bucket reaches the position you have selected, the bucket control lever automatically returns to neutral and then you put the lift arm control lever in the **NEUTRAL** position. See page 95 for Return-To-Dig Adjustment.



1. *Bucket Control Lever in ROLLBACK position*
2. *Lift Arm Control Lever in FLOAT position*

840936

OPERATING INSTRUCTIONS

Shifting the Transmission (PIN 9165563 and After)

SELECTING TRANSMISSION SPEEDS

Rotate the handle of the transmission control lever to select the correct transmission speed. For hard digging conditions, rotate the handle to 2 or 1 (2nd gear or 1st gear). When faster transport speeds are required, rotate the handle to 3 or 4 (3rd gear or 4th gear).

DOWNSHIFTING

Reduce the machine speed to the top speed of the next lower gear before you shift. Always downshift one gear at a time, do not skip a gear (for example, 4th to 2nd).

CHANGING DIRECTIONS

Push the transmission control lever completely forward for FORWARD and pull completely rearward for REVERSE. The center position is NEUTRAL.

Always downshift to 2nd or 1st gear and reduce the machine speed to 6 mph (10 km/h) before shifting to REVERSE.

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MAINTENANCE AND LUBRICATION _____

RUN-IN PERIOD

During the first 20 hours of operation for a new machine or a machine with a rebuilt engine, make sure you do the following:

- 1. Operate the machine with normal loads for the first 8 hours.
- 2. Keep the engine at normal operating temperatures.
- 3. Do not run the engine at idle speeds for long periods of time.
- 4. See the Run-In Maintenance Schedule on this page for additional information.

RUN-IN MAINTENANCE SCHEDULE

The following items are to be done during the Run-In Period and are in addition to the items in the Maintenance Schedule on the following page.

_____ **AFTER FIRST 1, 5, 10, 20, AND 50 HOURS OF OPERATION** _____


Check the torque for the wheel nuts See page 93

_____ **AFTER FIRST 20 HOURS OF OPERATION** _____


Have your Case dealer do the After Delivery Check See page 117

_____ **AFTER FIRST 100 HOURS OF OPERATION** _____

Change the transmission oil and replace the transmission filter (PIN 9165563 and after) See page 83

 **WARNING:** *Before you do service under the machine, put the machine on a level surface, engage the parking brake and stop the engine. Put blocks at the front and rear of the tires. Failure to follow these instructions can cause injury.* 46-77-A

ENGINE COOLING SYSTEM

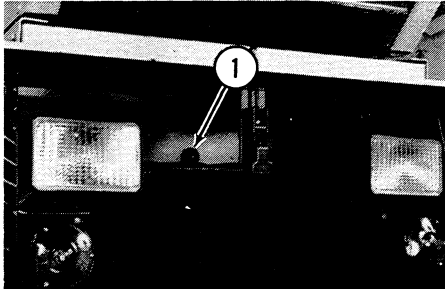
 **WARNING:** Remove the radiator pressure cap slowly and only when the engine is cool or painful burns could result. Add coolant only when engine is stopped or idling. 31-4

Coolant Level

Park the machine on a level surface when you check the coolant level or drain the coolant.

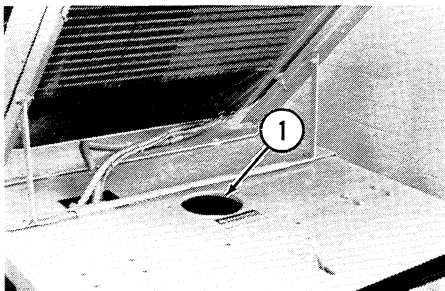
Check the coolant level every 10 hours of operation or each day, whichever occurs first.

When the coolant is cold, you must see coolant in the sight gauge on the radiator. If you must add coolant, the coolant level must be two inches (50 mm) below the radiator filler cap opening.



1. Sight Gauge

A846129



1. Radiator Filler Cap

A846130

Coolant

Use a mixture of 50% ethylene glycol and 50% water for the engine cooling system.

NOTE: If the air temperature will be lower than -34°F (-37°C), add additional ethylene glycol according to the manufacturers instructions. Before you move the machine outside into temperatures below 32°F (0°C), run the engine approximately 5 minutes to mix the ethylene glycol with the water.

Cleaning the Cooling System

Drain and clean the cooling system and install new coolant every 2000 hours of operation or once a year, whichever occurs first. If the coolant becomes dirty or the color of rust, clean the cooling system and install new coolant.

1. Open the drain valve for the radiator, engine block, and oil cooler and drain the cooling system.

MAINTENANCE AND LUBRICATION

TRANSMISSION (Before PIN 9165563)

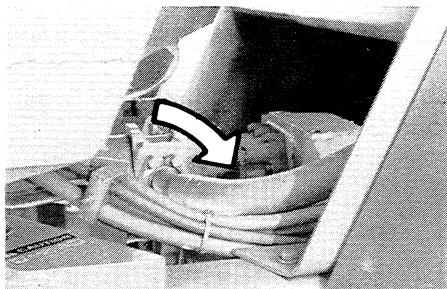
See page 57 for the transmission oil specifications.

Park the machine on a level surface when you check the oil level or when you drain the transmission.

Oil Level

Check the oil level every 50 hours of operation.

It is recommended that the oil level be checked at the end of the operating period when the oil is at operating temperatures.



Dipstick (Not Shown)

A846099

1. Install the transport/service pin to keep the machine straight.
 2. Make sure the transmission control is in NEUTRAL and the parking brake is applied.
 3. Start the engine and run at idle speed.
 4. The final oil level check is taken with the transmission oil at operating temperature (the gauge pointer is in the green area of the torque converter temperature gauge).
- NOTE:** *If the gauge pointer is not in the green area, do the following:*
- a. Release the parking brake.
 - b. Push the right brake pedal and move the transmission control lever to the H (High) position.
 - c. Increase the engine speed to full throttle and hold this position for 30 seconds. Shift the transmission to N (Neutral) position and idle the engine for 10 seconds.
 - d. Repeat steps b and c until the gauge pointer is in the green area of the gauge.
5. Apply the parking brake.
 6. Run the engine at idle speed and shift the transmission to the N (Neutral) position.
 7. Remove the transmission dipstick and check the oil level. The oil level must be between the ADD mark and the FULL mark. Add oil as required to raise the oil level up to the FULL mark.

MAINTENANCE AND LUBRICATION _____

Air Compressor

Use a belt tension gauge to check the drive belt tension every 500 hours of operation.

Adjusting Tension

Tighten a new drive belt to 110 pounds (490 N, 50 kg).

Tighten a drive belt in use to 90 pounds (400 N, 40 kg).

1. Loosen the pivot screw.
2. Loosen the lock screw.
3. Loosen the lock nut.
4. Rotate the adjusting bolt clockwise to tighten the drive belt.
5. Check the belt tension.
 - a. If the belt tension is correct, go to step 6.
 - b. If the belt tension is not correct, repeat steps 4 and 5.
6. Tighten the lock nut.
7. Tighten the lock screw.

8. Tighten the pivot screw.

Air Conditioning Compressor

Use a belt tension gauge to check the drive belt tension every 500 hours of operation.

Adjusting Tension

Tighten a new drive belt to 110 pounds (490 N, 50 kg).

Tighten a drive belt in use to 110 pounds (490 N, 50 kg).

1. Loosen the pivot bolt.
2. Loosen adjusting bolt.
3. Pull the air conditioning compressor away from the engine and tighten the adjusting bolt.
4. Check the belt tension.
 - a. If the belt tension is correct, go to step 5.
 - b. If the belt tension is not correct, repeat steps 2, 3, and 4.
5. Tighten the pivot bolt.

MAINTENANCE AND LUBRICATION _____

ALCOHOL EVAPORATOR (If Equipped)

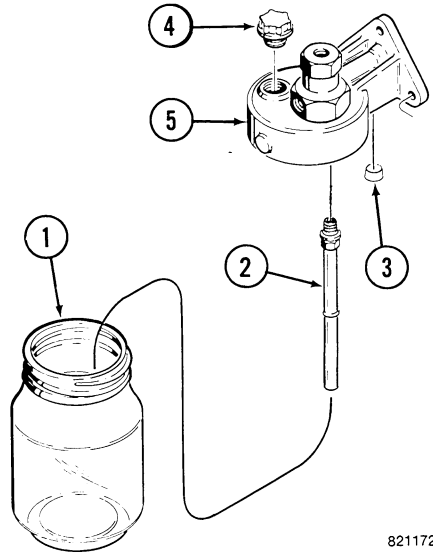
See page 57 for the alcohol specifications.

Alcohol Level

Check the level of alcohol in the jar daily or every 10 hours of operation, whichever occurs first.

Service

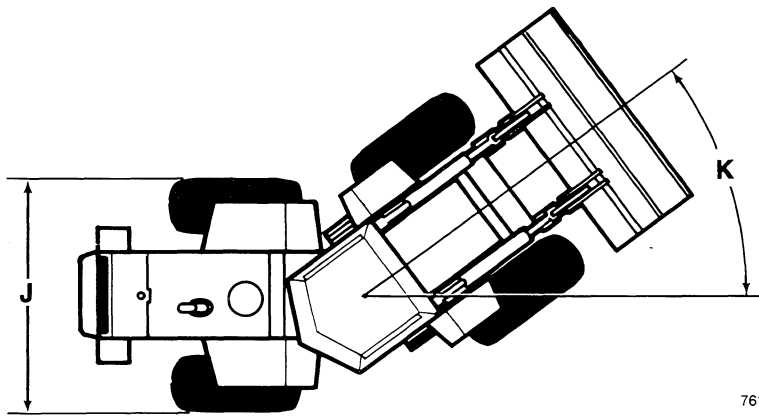
Every 2000 hours of operation or each year, whichever occurs first, have your Case dealer disassemble and clean the alcohol evaporator.



821172

1. Jar (Plastic)
2. Tube
3. Screen (Not Removable)
4. Filler Cap
5. Body

SPECIFICATIONS



		in	mm
J	Width	105.3	2675
K	Turning angle from center	40°	

WEIGHT

		lb	kg
Total	27 540	12 492

Weight of the machine includes the following: 3 cu yd (2.3 m³) bucket, 20.5 x 25 tires, full fuel tank, 175 pound (79 kg) operator, 1836 lb (832.8 kg) counterweight, and standard equipment.

TIRE AIR PRESSURES

NOTE: See *Wheels and Tires* on page 93 before adding air to the tires.

Size	Ply Rating	Type Tread	Air Pressure			
			psi	kPa	kg/cm ²)	
17.5 x 25	12	L2	50	345	3.5	
17.5 x 25	12	L3	50	345	3.5	
17.5 x 25		XRAT	70	483	4.9	Front
			40	276	2.8	Rear
20.5 x 25	12	L2	40	276	2.8	
20.5 x 25	12	L3	40	276	2.8	
20.5 x 25	16	L2	50	345	3.5	
20.5 x 25	16	L3	45	310	3.2	
20.5 x 25		XRAT	50	345	3.5	Front
			30	207	2.1	Rear
23.5 x 25	12	L2	35	241	2.5	
23.5 x 25	12	L3	35	241	2.5	
23.5 x 25		XRAT	35	241	2.5	Front
			30	207	2.1	Rear

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