

A—Load	E—Dump
B—Out and Load	F—In and Dump
C—Bucket Out	G—Bucket In
D—Out and Dump	H—In and Load

Fig. 26-Bucket and Dipperstick Control Lever

To extend dipperstick (move bucket out) move control lever forward, to retract it (move bucket in) move lever rearward.

To dump bucket move control lever to right; to load it move lever to left.

Move lever to an intermediate position, to extend or retract dipperstick at same time bucket is being loaded or dumped.

Backhoe controls checked Yes No

10. Cycle Times

Check backhoe and loader hydraulic function cycle times.

Before checking loader functions cycle times, remove air from system as follows:

1. Operate the engine at 1/2 to 3/4 throttle and raise the boom to the top of its stroke, then lower to the bottom of its stroke (front of tractor off ground) three times. On the last cycle hold the handle in each direction after the boom has stopped and check for external leaks.

2. Operate the engine full throttle and place the bucket four feet off ground. Dump and roll back bucket three times. During the third cycle hold the handle in each direction at least five seconds after bucket has stopped and check for external leaks. With bucket fully dumped, raise boom to the top of its stroke to be sure that no lock-up occurs.

The following times should be used as a guide. If cycle times vary greatly from those listed, trouble shoot the hydraulic system. Check cycle times with oil warm and engine at fast idle.

Backhoe cycle times:

Bucket retract	2.5 seconds max.
Bucket extend	3.5 seconds max.
Swing (180 degrees) ...	3.5 to 7.0 seconds max.

Loader cycle times:

Boom raise	5.7 seconds max.
Boom lower (power)	5.3 seconds max.
Boom lower (float)	7.5 seconds max.
Bucket dump (boom at full height)	4.2 seconds max.

Cycle times checked Yes No

11. Steering

Check power steering. Steering wheel should turn freely in both directions without jerking and excessive play.

If repair is needed, see Section 60.

Steering checked Yes No

12. Accumulator

Check the brake accumulator and hydraulic accumulator circuits.

CAUTION: Do not attempt to disconnect or remove the accumulator unless you release the hydraulic pressure. To do so, stop engine, loosen the right-hand brake bleed screw and hold the right-hand brake pedal down for a few minutes.

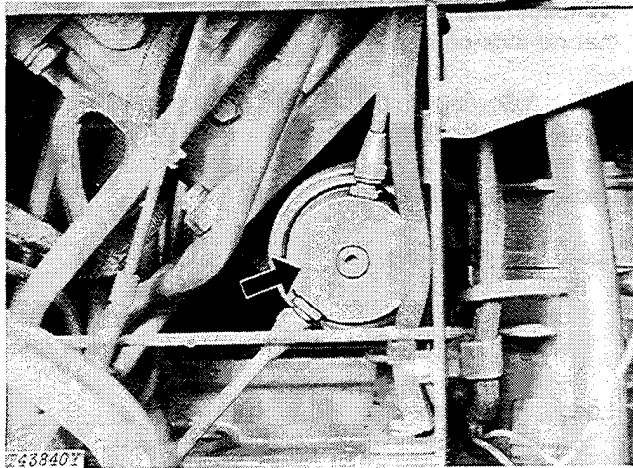


Fig. 27-Brake Accumulator

Check the accumulator brake circuit.

1. Run engine one minute minimum, or until transmission-hydraulic oil is at normal operating temperature.
2. Stop engine.
3. Wait 10 to 15 minutes.
4. Apply brakes five times at five second intervals.
5. If brakes stop working in five applications or fewer, the brake circuit needs service.

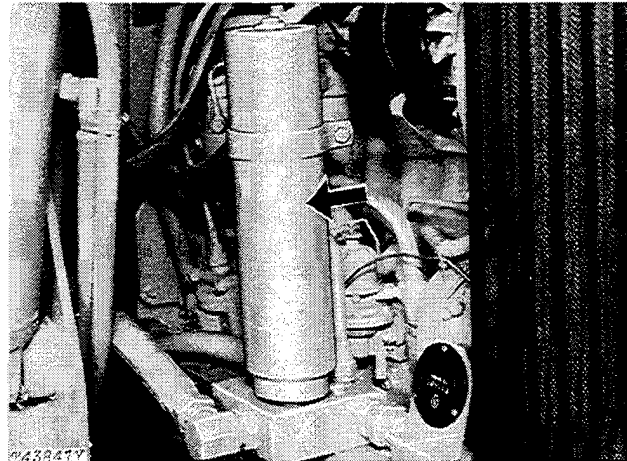


Fig. 28-Hydraulic System Accumulator

Check hydraulic system accumulator circuit as follows:

Start engine and run for one minute. Stop engine.

Turn steering wheel to left as far as far as possible. Power steering should be available for 1/2 to 3/4 steering wheel revolution. If not, the accumulator circuit may need service.

Accumulators checked Yes No

13. Air Intake Hoses

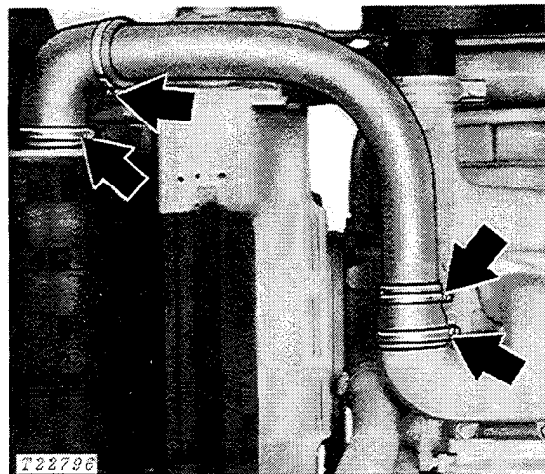


Fig. 29-Air Intake Hose Clamps

Check air hose clamps. Tighten clamps if necessary. Inspect hoses for damage.

Air intake hoses checked Yes No

14. Radiator

Check coolant level.

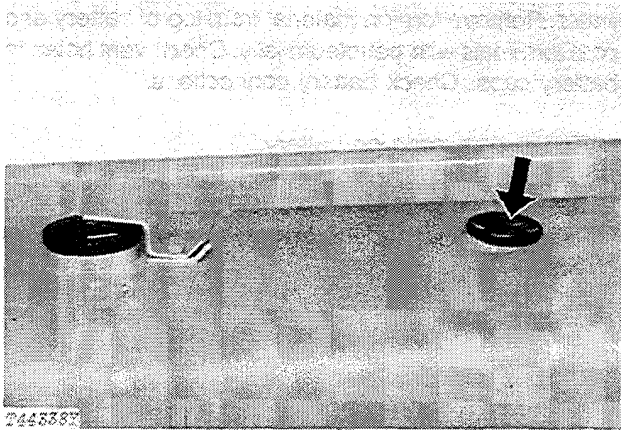


Fig. 30-Radiator Cap

CAUTION: Remove radiator filler cap only when coolant temperature is below boiling point. Then loosen cap slightly to the stop before removing the cap completely.

Check coolant level with unit on level ground. Add clean soft water (summer) or antifreeze (winter) if the coolant level is lower than 1-1/2 inches above the header plate in the radiator top tank.

Check cooling system for loose connections or leaks after adding coolant. Tighten the filler cap.

Coolant level checked Yes No

15. Crankcase Oil Level

Check crankcase oil level with unit on level ground. (Allow a minimum of 10 minutes for the oil to drain down before checking.) If oil level is at or below bottom mark on dipstick, add oil specified on page 10-20-2 to bring oil level to between marks on dipstick. Do not operate engine with oil level below bottom mark.

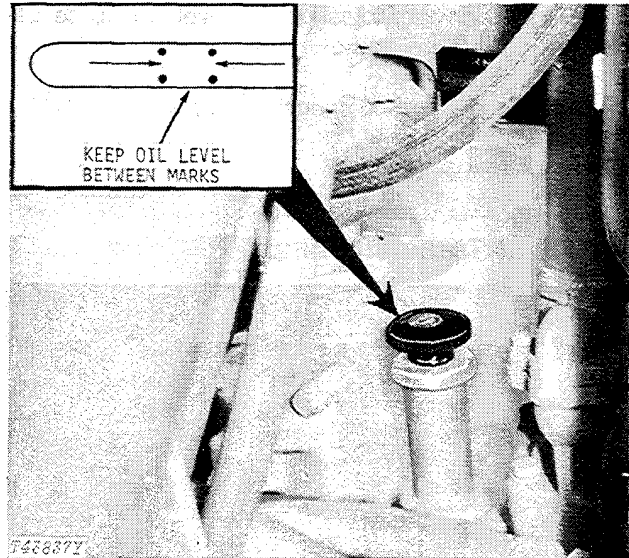


Fig. 31-Crankcase Filler Cap and Dipstick

Crankcase oil level checked Yes No
 Oil added _____ qts.

16. Transmission Oil Level

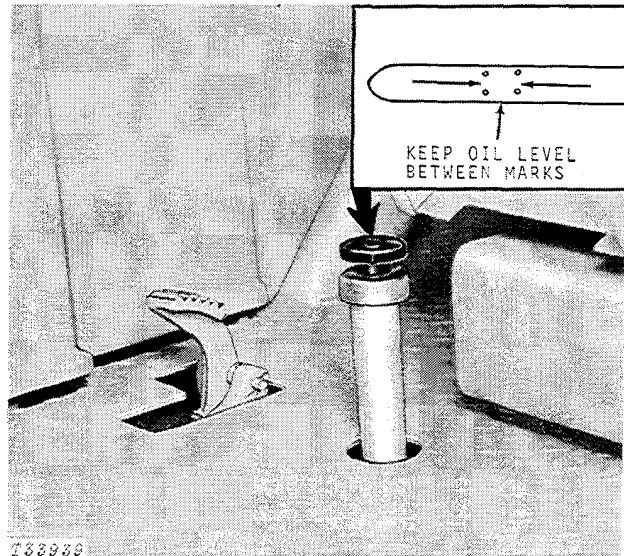


Fig. 32-Transmission Filler Cap and Dipstick

Park machine on level ground. Put transmission in park. Engage parking brake (if equipped). Put reverser lever in neutral. Lock it. Lower loader bucket to ground. Put backhoe in transport position. Run engine at slow idle 2 minutes with clutch engaged. Stop engine.

Check oil level on dipstick. Oil level should be between marks on dipstick.

If necessary add oil specified on page 10-20-2.

Transmission oil level checked _____ Yes No
Oil added _____ qts.

17. Fuel Transfer Pump

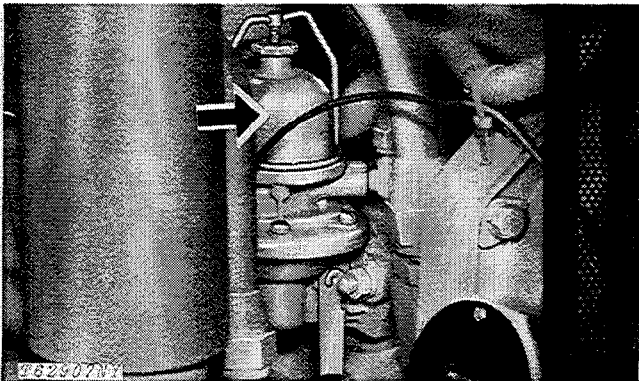


Fig. 33-Fuel Transfer Pump Sediment Bowl

Inspect fuel transfer pump sediment bowl. If there is water or an excess of foreign matter, remove and clean sediment bowl and fuel strainer. Install strainer and bowl, using a good gasket.

Sediment bowl checked _____ Yes No

18. Fuel Filter

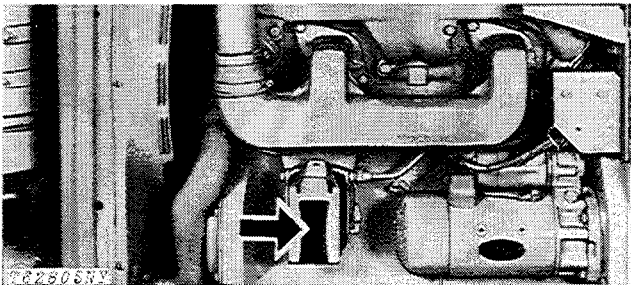


Fig. 34-Fuel Filter Element

Inspect fuel filter element for water and sediment. If necessary, loosen drain screw at bottom of filter body and drain liquid for several seconds. Tighten drain screw.

Bleed fuel system. See page 10-10-30.

Fuel filter checked _____ Yes No

19. Batteries

Check battery electrolyte level. If distilled water is not available, use clean soft water. Avoid use of hard water. Remove foreign material from top of battery and coat terminals with petroleum jelly. Check vent holes in battery caps. Check battery connections.

Punch date code on battery.

IMPORTANT: Never add water to battery in freezing weather unless engine is to be run 2 or 3 hours.

Batteries checked _____ Yes No

20. Engine Belts

Check alternator-fan belt tension.

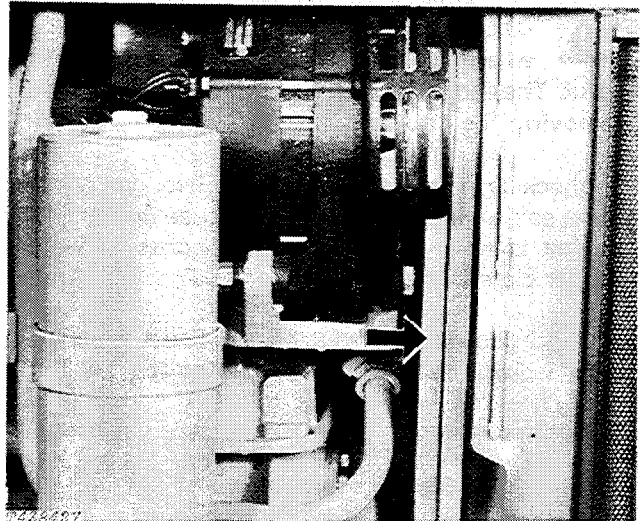


Fig. 35-Engine Belts

Checking Tension

Tension Gauge: Tighten new belts to 100 lb. and used belts to 90 lb. Check front belt only.

Tension Tester: Tighten belts until 20 lb. force mid-way between pulleys will deflect belt 1 in.

Immediately after shutdown, check tension with tension gauge. If tension is 50 lb. or less, wait 10 minutes then retension belts to 90 lb.

Adjusting Tension

Loosen mounting bolt and adjusting cap screw and apply force only to FRONT alternator frame.

Engine belts checked Yes No

21. Lubrication

The backhoe loader was checked and lubricated before it left the factory. However, to insure customer satisfaction, check each lubrication point shown in the following pages. Lubricate with several strokes of John Deere Multi-Purpose Grease or equivalent, if necessary.

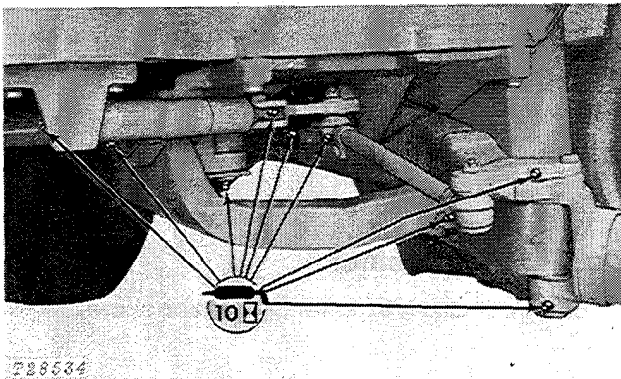


Fig. 36-Front Axle Fittings (15 points)

Lubrication required Yes No

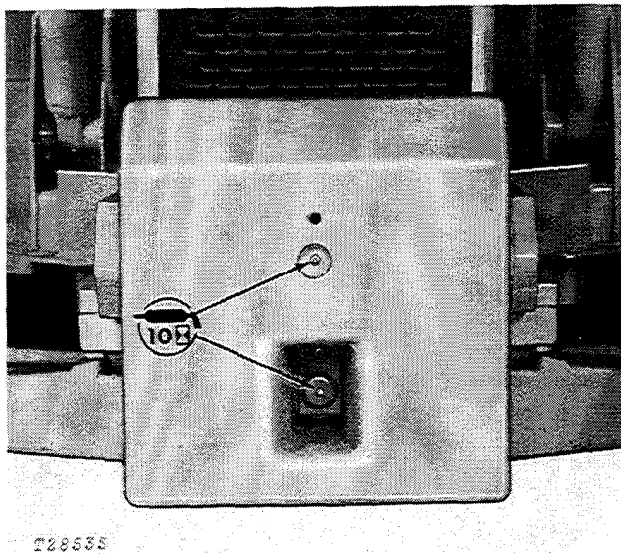


Fig. 37-Front Axle Grease Fittings (2 points)

Lubrication required Yes No

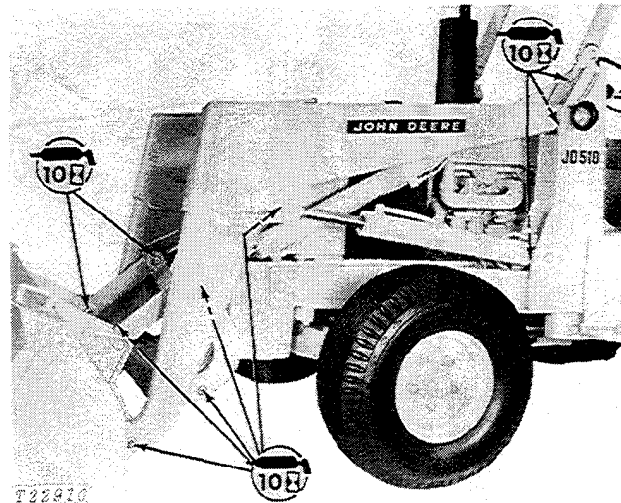


Fig. 38-Loader Pivot Points (16 Points)

Lubrication required Yes No

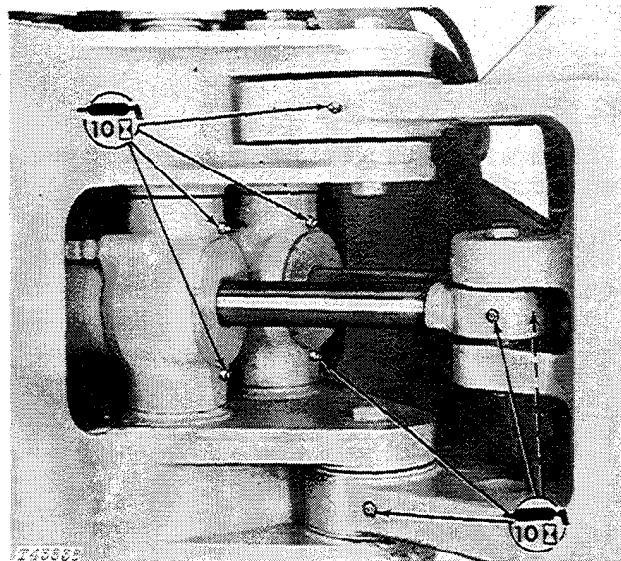


Fig. 39-Swing Cylinder Pivot Points (8 Points)

Lubrication required Yes No



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