

PRESSURE TESTS AND ADJUSTMENTS

The hydraulic pump must deliver a specified amount of oil through the loader circuits within prescribed pressure limits. If the pump flow and/or system pressure falls below that specified, the efficiency of the hydraulic system will be impaired. If the system is not operating properly, the trouble usually can be traced to specific areas in the system. Because it is sometimes difficult to identify the particular malfunctioning component, hydraulic tests have been designed to assist the technician in diagnosing trouble areas quickly.

Loader System Relief Pressure Test

The loader system relief pressure is checked with a pressure gauge installed at the relief valve of the loader control valve. See Figure 3.

1. Install a 0-1000 psi (0 - 68.9 kg/cm²) pressure gauge into the loader control valve pressure line as shown in Figure 3.
2. Operate the engine at maximum speed, then fully retract the bucket cylinders and observe the pressure gauge. The gauge should indicate 1000 \pm 50 psi (68.9 \pm 3.4 kg/cm²).
3. If the pressure reading is not within specifications, adjust the relief valve, Figure 3-4, by loosening the cap nut, loosening the pin nut and tightening or loosening the adjusting screw as required.

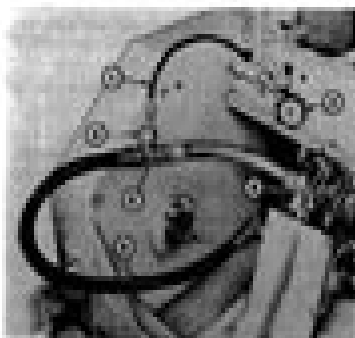


Figure 3
Loader System Relief Pressure Test

- | | |
|---------------------|--------------------|
| 1. 0-1000 psi | 4. Adjusting screw |
| 2. Cap nut | 5. Pin nut |
| 3. 0-1000 psi gauge | 6. 0-1000 psi |



Figure 3-4
Loader Relief Valve

1. Relief valve

NOTE: If the system relief pressure is being set for a business installation, the pressure should be set for 2000 \pm 50 psi (137.8 \pm 3.4 kg/cm²).

4. When the specified pressure has been obtained, tighten the pin nut to lock the adjusting screw and reinstall the cap nut.
5. Release the relief pressure to verify the setting.

Drive System Pressure Test

The drive system pressure is checked at the test port located in the outlet port fittings to which the motor hoses connect.

1. Remove both hoses from the motor to test the pump section. Cap both motor ports and plug both of the hoses. See Figure 4.
2. Locate the hose at which the pressure is to be checked and install a 0-1000 psi (0 - 68.9 kg/cm²) pressure gauge as shown in Figure 4.
3. Start the engine and operate it at full governed rpm. Run the appropriate control lever fully forward or reverse as required to obtain a pressure reading. The gauge should indicate a pressure of - flow CL, flow CL, 1000 \pm 50 psi (68.9 \pm 3.4 kg/cm²).
4. If the pressure is not to specification, install a new relief valve assembly as the relief valve is not adjustable.

Hydraulic Pump Performance Test

The hydraulic pump performance test is performed with the loader pump isolated from the 48-horsepower oil system. Leakage is not a factor in the test. With the hydraulic tester properly installed, oil pumped out is directed to the hydraulic test unit and measured at the desired test and returned to the reservoir as illustrated in Figure 5.

Installing the Hydraulic Tester

1. Disconnect the loader pump high pressure hose from the control valve.
2. Connect the hose to the inlet of the hydraulic tester.
3. Connect one end of the other loader hose to the outlet of the hydraulic tester and route the opposite end to the loader reservoir.

WARNING: Do not under any circumstances exceed the system relief pressure of 1000 \pm 50 psi (68.9 \pm 3.4 kg/cm²). Excessive pressure will cause major pump damage.

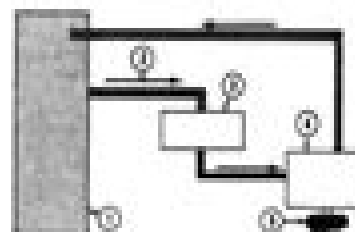


Figure 5
Pump Performance Test

- | | |
|----------------------------|---------------------|
| 1. Hydraulic Oil Reservoir | 4. Hydraulic Tester |
| 2. Oil Flow | 5. Loading Valve |
| 3. Pump | |

Pump Performance Test Procedure

NOTE: This test is not recommended for variable displacement drive pumps because the maximum retraction of the oil flow may damage the test unit. Further, precise test results are difficult due to variations in engine speeds and stroke plate angles, both of which affect pump volume.

1. Set the water test valve to no load (fully open) and the flow meter at 75 gpm (56.5 imp. gpm) (56.5 liters per minute).
2. Start the loader engine and adjust the throttle to 2000 rpm.
3. Keep the oil in the system by closing the test valve to 1000 psi (70.3 kg/cm²). Release the test valve setting to zero psi when the oil temperature reaches 100° F \pm 10° F (37.8 \pm 5.4° C).
4. Record the flow meter gain reading at 2000 engine rpm, zero oil and 100° F \pm 10° F (37.8 \pm 5.4° C).
5. Gradually increase the pressure to 1000 \pm 50 psi (68.9 \pm 3.4 kg/cm²). Control the reduced engine speed to 2000 rpm by increasing the throttle setting.
6. Record the gain reading on the flow meter at 2000 engine rpm, 1750 psi (123.0 kg/cm²) system pressure and 100° F \pm 10° F (37.8 \pm 5.4° C).

NOTE: The readings taken at no load psi and 1750 psi (123.0 kg/cm²) system pressure must be taken at a constant 2000 engine rpm. If the engine rpm is not constant, the volume readings will not give the desired results when determining pump efficiency.

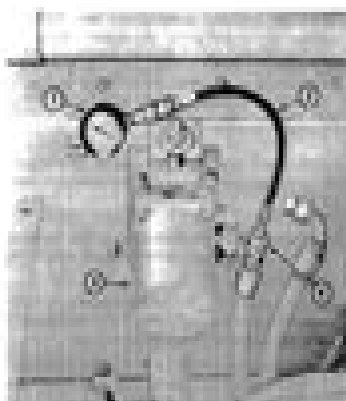


Figure 4
Drive System Pressure Test

- | | |
|---------------------|-----------------------|
| 1. 0-1000 psi Gauge | 3. Drive/Relief (R/L) |
| 2. 0-10 hose | 4. 0-100 Reservoir |

Model A Ford Repair Manual

RJ Shavelson



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