

CONSTRUCTION MACHINERY DIVISION



- Place directional shift lever in NEUTRAL position and start engine.
- 2. Accelerate engine to approximately half throttle, lightly apply left brake pedal and shift directional shift lever to ronward position. There should be no clutch engagement (causing the machine to move forward) or drop in engine rpm as would be noticed when shifting lever into neverse position. A steady rpm will give a more pronounced indication. However, if forward movement of the machine does occur, this is an indication that the de-clutch valve is not functioning properly and must be replaced.
- Shut down engine and remove and replace de-clutch valve.
- Recheck valve operation as described in Steps 1 and 2.

Transmission Clutch Pressure: Pressure check should be made in all speed ranges in both forward and reverse directions. Wheels of machine should be securely blocked and parking brake applied.

- 1. Remove filler plate and seat base assemblies.
- Install an accurate gauge, 0 to 400 psi (0 to 28 kg/cm²) capacity in the quick disconnect fitting in rear of cockpit as shown in Figure 18.
- 3. Check pressure with engine at IDLE.
- Read gauge in NEUTRAL; then engage clutches one at a time. Minimum pressure reading should be an

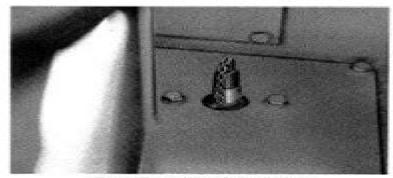


Fig. 18. Transmission Clutch Pressure

specified in Specifications and Service Data section at rear of manual

If pressure is not as specified, further trouble shooting of the transmission, torque converter and allied hydraulic system by a qualified mechanic is required.

Pressure checks must be taken with fluid hot (180° F. to 200° F.), (82° C. to 93° C.).

Check Boom and Bucket Pressure: The boom and bucket hydraulic pump is coupled to the drive line and operates as soon as the engine is started. The pump draws fluid from the reservoir and forces it under pressure into the boom and bucket control valve.

Maintenance consists of periodically checking the pressure in the system.

- Remove access plate, apply parking brake, block wheels and attach safety links.
- Use a hydraulic pressure gauge of at least 3000 psi (211 kg./cm²) capacity.
- With engine shut down, attach gauge at quick release fitting in line between pump and valve.
- 4. Start engine, place directional lever in NEUTRAL and accelerate to maximum rpm. Rotate bucket into full CLOSE position. When engine rpm drops to its lowest point, observe gauge reading. If gauge reading is not as specified in Specifications and Service Data section at rear of manual, shut down engine and replace main relief valve cartridge (Item 1 Figure 19).

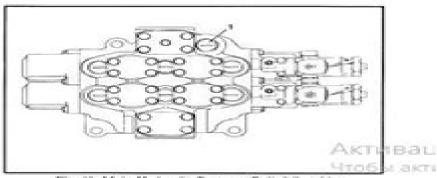


Fig. 19. Main Hydraulic Pressure Relief Cartridge

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