

## Elevator High Pressure Relief Valve Test

### -: Specifications

SPECIFICATIONS	
Oil Temperature	65 ± 5°C (150 ± 10°F)
Engine Speed	Fast Idle
Elevator High Pressure Relief Valve Pressure Setting	35 900-37 900 kPa 359-379 bar) (5200-5500 psi)

### -: Essential Tools

ESSENTIAL TOOLS
JT05490 (3/8-24 M ORB x 7/16-20 M 37°) Adapter (2 Used)

### -: Service Equipment And Tools

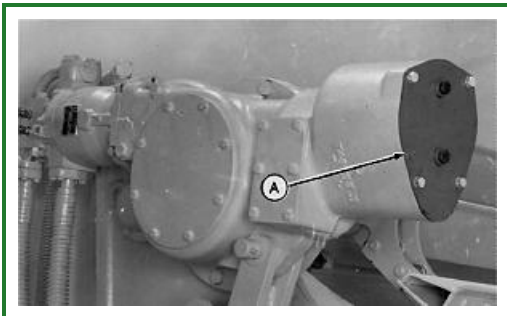
SERVICE EQUIPMENT AND TOOLS
Digital Thermometer
JDG98 Elevator Stall Plate
Gauge 0-69 000 kPa (0-690 bar) (0-10,000 psi) (2 Used)

1. Fasten temperature probe to elevator hydraulic filter. (See [JT05800 Thermometer Installation](#) in this group.)
2. Warm hydraulic oil to specified temperature by operating ejector gate and elevator functions.

Item	Measurement	Specification
Oil	Temperature	65 ± 5°C (150 ± 10°F)

3. Stop engine.
4. Operate elevator control lever to release pressure in the system.

5.



#### T6346BS-UN: JDG98 Elevator Stall Plate Installation

Install JDG98 Elevator Stall Plate (A) on the elevator gearbox.

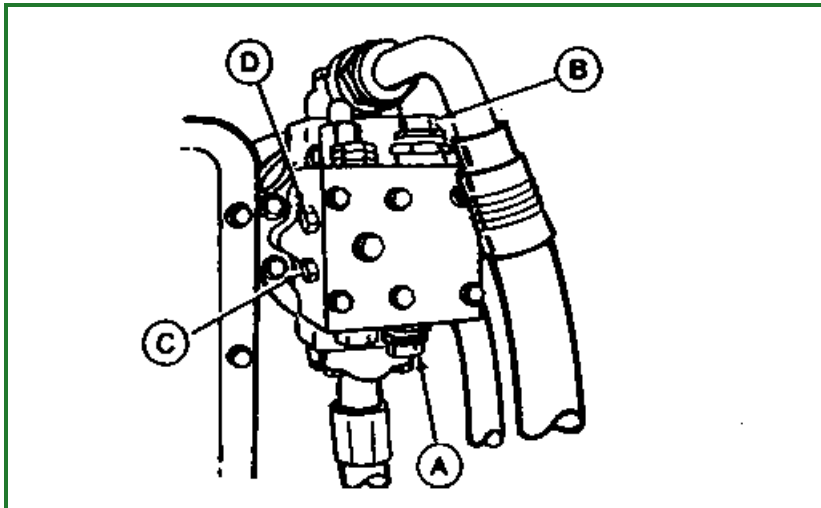
6.

**CAUTION:**



**X9811-UN: Avoid High-Pressure Fluids**

*To avoid injury from escaping fluid under pressure, stop engine and relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.*



**T6675AG-UN: Test Ports**

**LEGEND:**

- A - Unload High Pressure Relief Valve
- B - Load High Pressure Relief Valve
- C - Unload Test Port
- D - Load Test Port

Install fittings and gauges in test ports (C and D).

7. Start and run engine at fast idle.

Item	Measurement	Specification
Engine Speed		Fast Idle

8. Slowly move elevator control lever toward full speed load direction and watch oil pressure. Oil pressure must rise steadily, make a small drop when relief valve opens, then continue to rise again.

The point at which pressure starts to drops is the relief valve setting. Record the pressure reading.

Item	Measurement	Specification
Elevator High Pressure Relief Valve	Pressure Setting	35 900-37 900 kPa 359-379 bar) (5200-5500 psi)

- Repeat procedure with elevator in unload direction.
- If relief pressure is low in one direction only, switch relief valves and rerun test. If pressure is low in the opposite direction, install a new relief.

If pressure is low in both directions, do [Elevator Motor Leakage Test](#) in this group.

If pressure rises erratically, relief may be stuck open. An open relief valve will cause erratic readings in both directions.

Go to [Section\\_9025:Group\\_25](#)

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