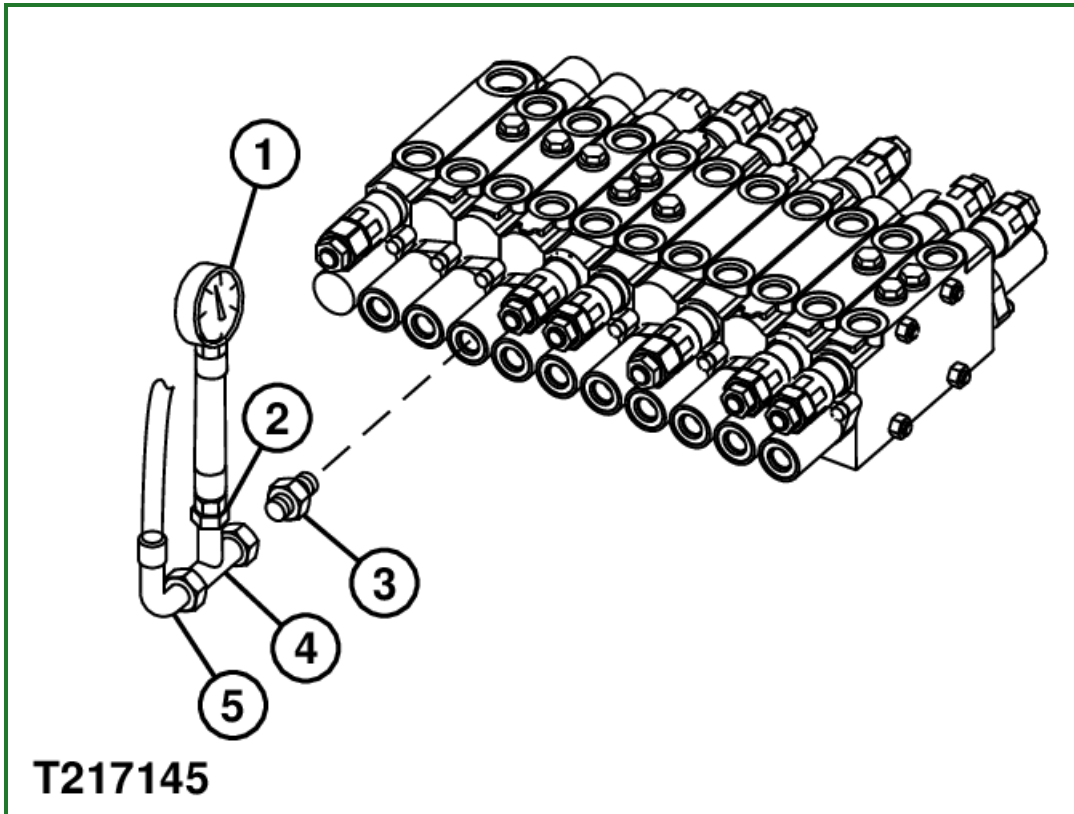


Control Valve Spool Pilot Actuating Pressure Test



T217145-UN: Control Valve

LEGEND:

- 1 - Gauge
- 2 - Adapter
- 3 - Pilot Cap Fitting
- 4 - Tee
- 5 - Pilot Line

-: Specifications

| SPECIFICATIONS | |
|---------------------------------------|---|
| Hydraulic Oil Temperature | 45—55°C 110—130°F |
| Engine Speed Control Lever Position | Fast Idle |
| Pilot Actuation at Fast Idle Pressure | 2400—3400 kPa 24.0—34.0 bar 348—493 psi |

-: Essential Tools

| ESSENTIAL TOOLS |
|------------------------------------|
| JT03523 Test Kit |
| JT03523-12 Swivel Run Tee 1/4 BSPP |

-: Service Equipment and Tools

SERVICE EQUIPMENT AND TOOLS

JT02156A Digital Pressure/Temperature Analyzer

JT02161 Transducer 35 000 kPa (350 bar) (5000 psi)

Gauge 7000 kPa (70 bar) (1000 psi)

Procedure is used to check that there is enough pilot pressure oil to the pilot cap to completely shift the valve spools when pilot controllers are actuated.

1.

⚠ CAUTION:

Machine will move during this check. Make sure area is clear and large enough to operate the machine.

Stop the engine.

2. Loosen cap to release the air pressure in hydraulic oil tank.

3.

NOTE:

Spool actuating pressure can be checked for each function by installing the line, tee, and gauge in place of that pilot line and then actuating that function.

Disconnect pilot line (5) at pilot cap fitting (3). Install JT03523-12 Swivel Run Tee (4) and connect the JT02156A Digital Pressure/Temperature Analyzer and Transducer or a gauge (1).

4. [Perform Hydraulic System Warmup Procedure](#) . (Group 9025-25.)

| Item | Measurement | Specification |
|---------------|-------------|----------------------|
| Hydraulic Oil | Temperature | 45—55°C 110—130°F |

5. Start and run engine at specification.

| Item | Measurement | Specification |
|----------------------------|-------------|---------------|
| Engine Speed Control Lever | Position | Fast Idle |

6.

NOTE:

Spool actuation pressure can be checked for each function by installing the tee and gauge in that pilot line and then actuating that function.

Actuate the function being checked to full stroke.

If valve spool actuation pressure is not to specification, [perform Pilot Pressure Regulating Valve Test and Adjustment](#) . (Group 9025-25.)