

This test will ensure proper circuit pressure and circuit relief valve function.

1.

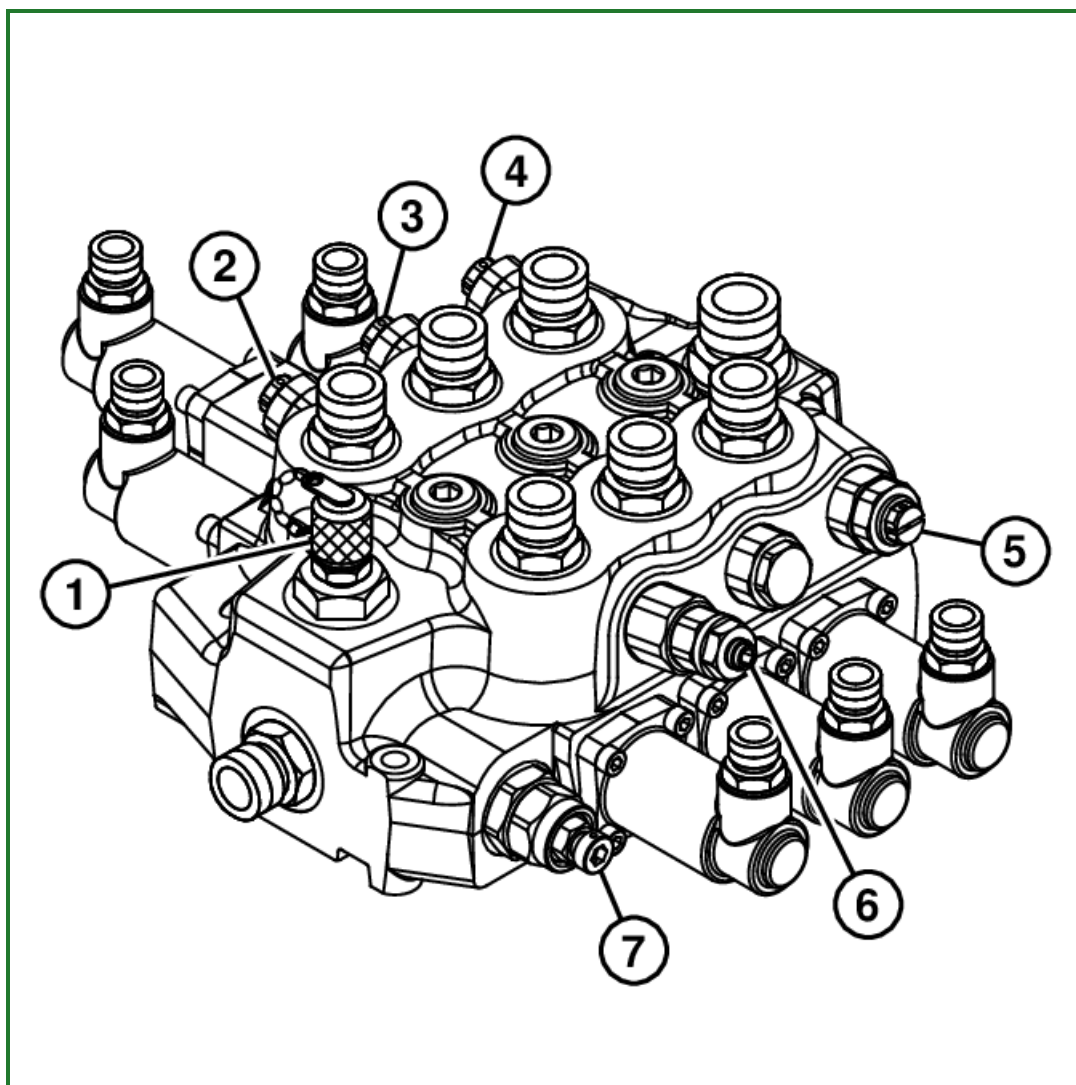
⚠ CAUTION:

Always install boom lock before working on or around machine when the boom is in the raised position. Unexpected movement of boom in raised position could cause possible injury or death.

Empty bucket of contents and rotate bucket to the dump position before installing boom lock.

Raise boom and install boom lock. See [Loader Boom Lock](#) . (Operator's Manual.)

2.



TX1056086-UN: Loader Control Valve

LEGEND:

- 1 - Test Port P
- 2 - Bucket Rollback Relief Valve
- 3 - Boom Raise Relief Valve
- 4 - Auxiliary Function B Relief Valve
- 5 - Auxiliary Function A Relief Valve
- 6 - Bucket Dump Relief Valve

7 - Loader System Relief Valve

Connect JT02156A Digital Pressure and Temperature Analyzer and JT02162 Transducer or gauge to test port P (1). See [Digital Pressure and Temperature Analyzer Installation](#) . (Group 9025-25.)

3. Attach JT02165 Thermo-Coupler and JT02156A Digital Pressure and Temperature Analyzer to hydraulic reservoir return fitting or connect Service ADVISOR™ to monitor warm-up. See [Digital Pressure and Temperature Analyzer Installation](#) (Group 9025-25) or see [Service ADVISOR™ Connection Procedure](#) . (Group 9015-20.)
4. [Perform Hydraulic Oil Warm-Up Procedure](#) . (Group 9025-25.)

Item	Measurement	Specification
Hydraulic Oil Temperature		50—60°C 120—140°F

5. Raise boom and install boom lock. See [Loader Boom Lock](#) . (Operator's Manual.)
6. IMPORTANT:

To avoid damage to main hydraulic pump, DO NOT adjust system pressure above 23 500 kPa (235 bar) (3408 psi). The system pressure must be set higher than the circuit relief valve being tested. [Perform Loader System Relief Valve Pressure Test](#) (Group 9025-25) after this test is completed.

Turn system pressure relief valve (7) in 1 turn.

7. IMPORTANT:

After all circuit relief valves are adjusted to specification, each circuit relief valve that was adjusted must be turned in either 1/4 or 1/2 turn as instructed in this procedure.

To adjust the bucket rollback circuit relief valve (2), loosen lock nut, and turn adjusting screw out 1/2 turn. Operate engine at specification. Hold the bucket rollback function in relief and adjust circuit relief valve to specification.

Item	Measurement	Specification
Engine	Speed	1000—1050 rpm
Bucket Rollback Circuit Relief Adjustment	Pressure	19 500—20 500 kPa 195—205 bar 2828—2973 psi

8. To adjust the bucket dump circuit relief valve (6), loosen lock nut, and turn adjusting screw out 1/4 turn. Operate engine at specification. Hold the bucket dump function in relief and adjust circuit relief valve to specification.

Item	Measurement	Specification
Engine	Speed	1000—1050 rpm
Bucket Dump Circuit Relief Adjustment	Pressure	19 500—20 500 kPa 195—205 bar 2828—2973 psi

9. To adjust the boom raise circuit relief valve (3), loosen lock nut, and turn adjusting screw out 1/2 turn. Operate engine at specification. Hold the boom raise function in relief and adjust circuit relief valve to specification.