

3. Raise and block machine. See [Raising and Blocking Machine](#) . (Operator's Manual.)

4.

⚠ CAUTION:

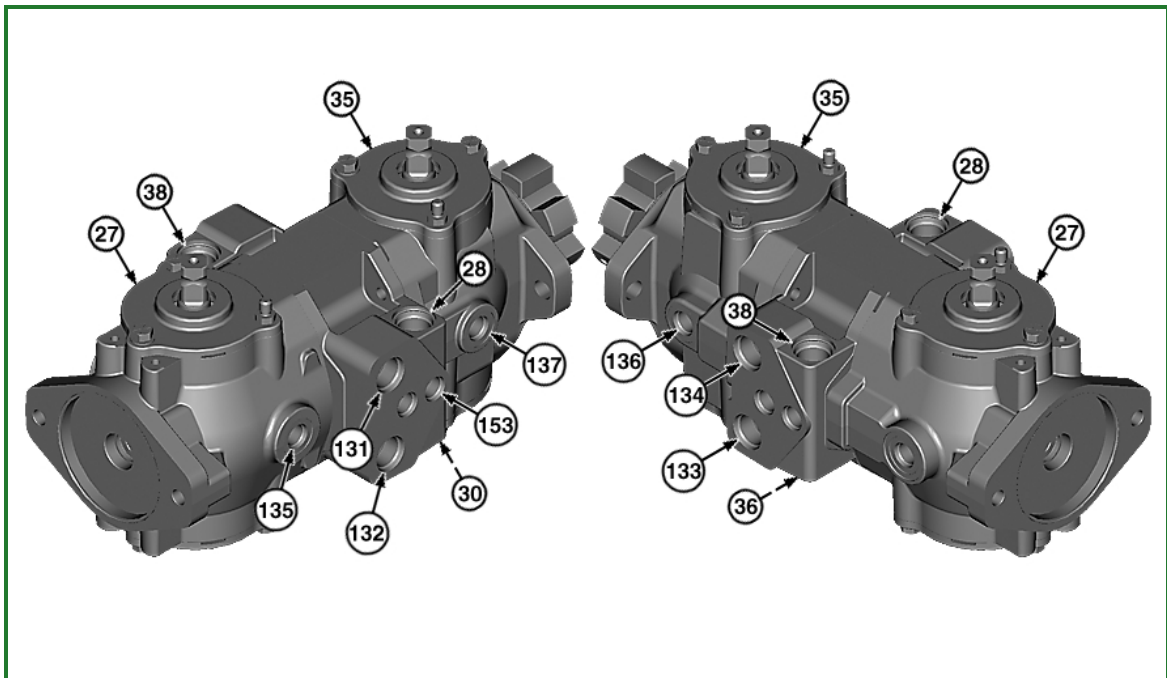
To avoid injury from escaping fluid under pressure, stop engine and relieve the pressure in the system before disconnecting or connecting hydraulic or other lines. Tighten all connections before applying pressure.

Stop engine and relieve hydraulic pressure. See [Hydraulic System Pressure Release](#) . (Group 9025-25.)

5. Raise operator's station. See [Raising Operator's Station](#) . (Operator's Manual.)

6. Remove footwell. See [Footwell Remove and Install](#) . (Group 1910.)

7.



TX1205717-UN: Hydrostatic Pump (left side shown left, right side shown right)

LEGEND:

- 27 - Left Hydrostatic Pump
- 28 - Left Forward Pressure Relief Valve
- 30 - Left Reverse Pressure Relief Valve
- 35 - Right Hydrostatic Pump
- 36 - Right Forward Pressure Relief Valve
- 38 - Right Reverse Pressure Relief Valve
- 131 - Left Forward Hydrostatic Motor Port
- 132 - Left Reverse Hydrostatic Motor Port
- 133 - Right Forward Hydrostatic Motor Port
- 134 - Right Reverse Hydrostatic Motor Port
- 135 - Left Hydrostatic Motor Case Drain Port
- 136 - Right Hydrostatic Motor Case Drain Port
- 137 - Hydrostatic Pump Case Drain Port
- 153 - Park Brake Valve-to-Hydrostatic System Port

To test left hydrostatic pump (27), remove hydraulic lines from left forward hydrostatic motor port (131) and left reverse hydrostatic motor port (132).

8. Attach JT07148 Digital Hydraulic Flowmeter Tester inlet to left forward hydrostatic motor port. Attach tester outlet to left reverse hydrostatic motor port. Close all openings using caps and plugs.
9. Turn load valve on JT07148 Digital Hydraulic Flowmeter Tester to full open position.
10. Lower operator's station. [See Raising Operator's Station](#) . (Operator's Manual.)
11. Start engine and run at specification.

Item	Measurement	Specification
Engine Speed		Fast Idle

12. Operate left wheels at full forward speed.
13. Slowly close load valve on JT07148 Digital Hydraulic Flowmeter Tester until pressure increases to specification.

Item	Measurement	Specification
Hydrostatic Pump	Testing Pressure	13 790 kPa 137.9 bar 2000 psi

14. Record and verify pump flow reading is within specification.

Item	Measurement	Specification
312GR and 314G		
Hydrostatic Pump	Flow Rate (typical, new)	78.4 L/min 20.7 gal/min
Hydrostatic Pump	Flow Rate (minimum)	71.5 L/min 18.9 gal/min
316GR and 318G Single Speed		
Hydrostatic Pump	Flow Rate (typical, new)	79.9 L/min 21.1 gal/min
Hydrostatic Pump	Flow Rate (minimum)	73.4 L/min 19.4 gal/min
316GR and 318G Two-Speed		
Hydrostatic Pump	Flow Rate (typical, new)	72.7 L/min 19.2 gal/min
Hydrostatic Pump	Flow Rate (minimum)	66.2 L/min 17.5 gal/min

15. Repeat procedure for right hydrostatic pump (35) using right forward hydrostatic motor port (133) and right reverse hydrostatic motor port (134).
16. If flow is low:
 - Verify engine speed at fast idle.
 - Check for diagnostic trouble codes (DTCs). [See Reading Diagnostic Trouble Codes \(DTCs\)](#) . (Group 9015-20.)
 - Verify proper control lever travel. [See Steering Lever Adjustment—Centering](#) . (Group 9026-25.)