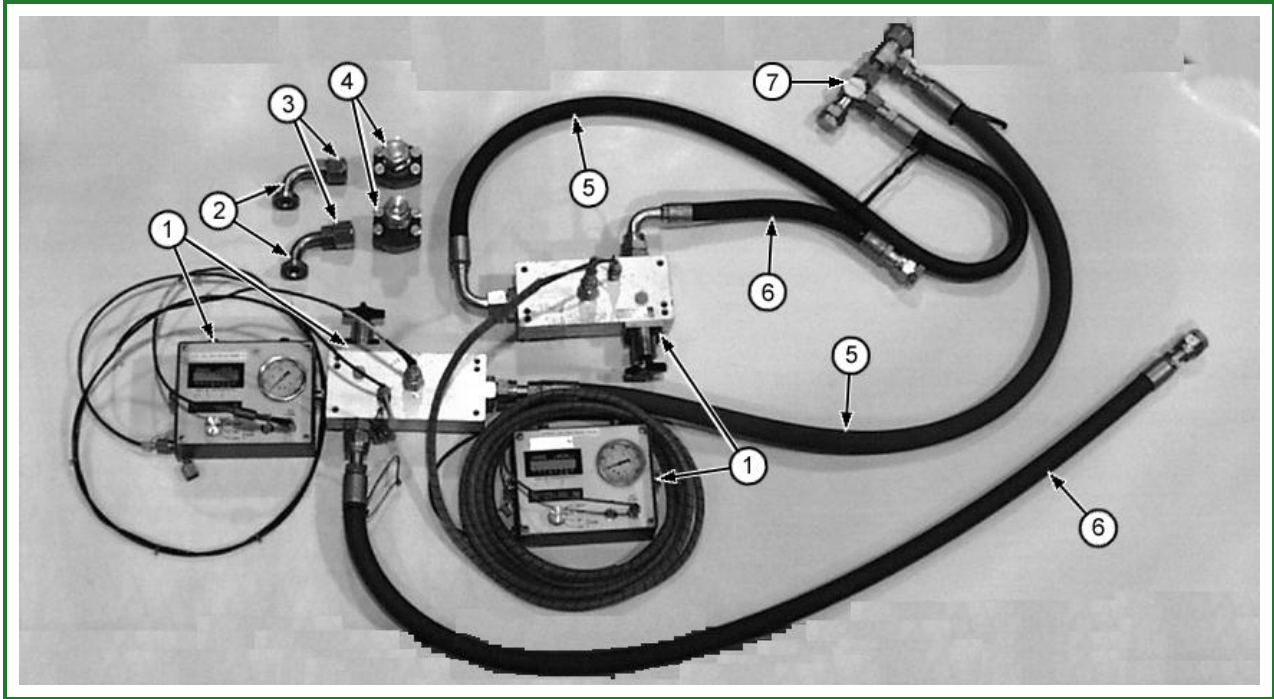
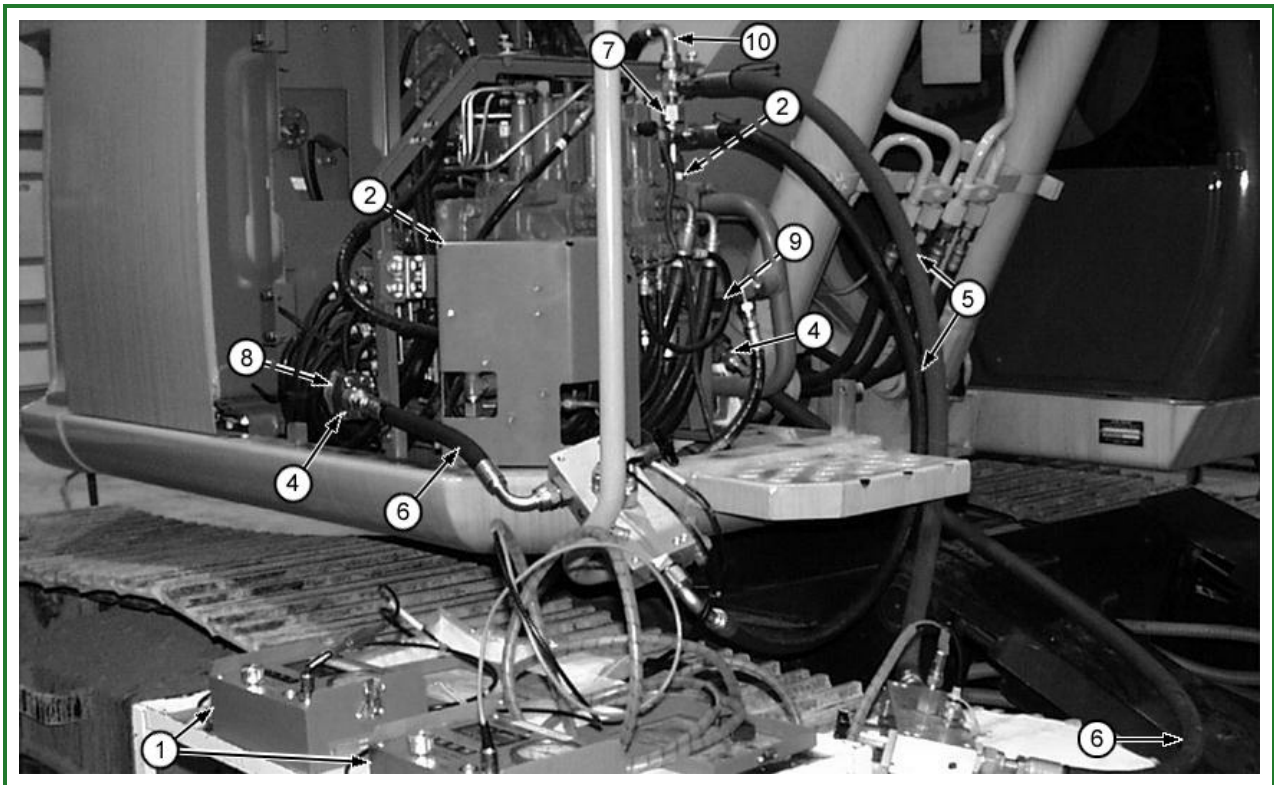


Hydraulic Pump Flow Test



T164146B-UN: Hydraulic Pump Flow Test Components



T164147B-UN: Hydraulic Pump Flow Test Setup

LEGEND:

- 1 - Digital Hydraulic Tester (2 used)
- 2 - Split Flange x -12 Male ORFS 90° Elbow (2 used)
- 3 - -12 ORFS Cap (2 used)
- 4 - Split Flange (Assembly) x -12 Male ORFS Connector (2 used)
- 5 - Return Hose (2 used)
- 6 - Pressure Hose (Hydraulic Pump Outlet Hose-to-Flow Meter) (2 used)
- 7 - -12 ORFS Tee Fitting Assembly (Return Manifold)
- 8 - Hose From Hydraulic Pump 1

9 - Hose From Hydraulic Pump 2

10 - Hose to Swing Motor Make-Up Oil Port (Return)

-: Specifications

SPECIFICATIONS	
Hydraulic Pump Flow	
Engine RPM Dial Position	Fast Idle
Work Mode Switch Position	Dig Mode
Power Mode Switch Position	HP (High Power) Mode
Auto Idle/Acceleration Switch Position	Off
Oil Temperature	45—55°C 110—130°F
Hydraulic Pump 1 or Hydraulic Pump 2 Flow Rate	102—113 L/min at 13 800 kPa new 102—113 L/min 138 bar new 27—30 gpm at 2000 psi new
Hydraulic Pump 1 or Hydraulic Pump 2 Flow Rate	100—110 L/min at 20 700 kPa new 100—110 L/min at 207 bar new 26—29 gpm at 3000 psi new
Hydraulic Pump 1 or Hydraulic Pump 2 Flow Rate	81.5 L/min at 13 800 kPa minimum allowable 81.5 L/min at 138 bar minimum allowable 21.5 gpm at 2000 psi minimum allowable
Hydraulic Pump 1 or Hydraulic Pump 2 Flow Rate	79.5 L/min at 20 700 kPa minimum allowable 79.5 L/min at 207 bar minimum allowable 21 gpm at 3000 psi minimum allowable

-: Service Equipment and Tools

SERVICE EQUIPMENT AND TOOLS
Digital Hydraulic Tester (2 used)
Split Flange x -12 Male ORFS 90° Elbow (2 used)
-12 ORFS Cap (2 used)
Split Flange (Assembly) x -12 Male ORFS Connector (2 used)
-12 ORFS Tee Fitting (2 used)

Test is used to determine hydraulic pump condition and should be performed only if a comparison of actual machine cycle times to specified cycle times indicates low pump flow. Do the following hydraulic pump regulator tests and adjustments in this group before continuing test:

- See Hydraulic Pump Regulator Test and Adjustment—Minimum Flow . (Group 9025-25.)
- See Hydraulic Pump Regulator Test and Adjustment—Maximum Flow . (Group 9025-25.)
- See Hydraulic Pump Regulator Test and Adjustment—Engine Pulldown . (Group 9025-25.)

1. Loosen cap on hydraulic oil tank to release pressure.