

HYDROSTATIC PUMP

Description

The hydrostatic pump is composed of a single (piston) pump. The pump provides flow to each drive motor. The pump flow is controlled by an electric solenoid using pulse width modulation (PWM). The pump direction is controlled by a forward and reverse solenoid.

The pump contains replenishing valves and the function of the replenishing valves is to give replacement fluid to the low pressure side of the hydrostatic circuit. Replacement fluid is needed because of normal internal leakage and the controlled flow to the oil cooler for cooling. The replenishing valve also keeps high pressure fluid out of the low pressure side of the hydrostatic circuit.

The hydrostatic pump is located below and behind the center console.

Removal And Installation

Remove the operator seat. (See Removal And Installation on Page 50-20-1.)

Remove the passenger seat. (See Removal And Installation on Page 50-21-1.)

Remove the cab. (See Removal And Installation on Page 50-10-1.)

Drain the hydraulic fluid. (See Removing And Replacing Hydraulic Fluid on Page 10-120-5.)

Remove the hydraulic pump from the hydrostatic pump. (See Removal And Installation on Page 20-80-8.)

Remove the drive belt from the hydrostatic pump pulley. (See Belt Replacement on Page 30-50-4.)

WARNING

AVOID INJURY OR DEATH

Always clean up spilled fuel or oil. Keep heat, flames, sparks or lighted tobacco away from fuel and oil. Failure to use care around combustibles can cause explosion or fire.

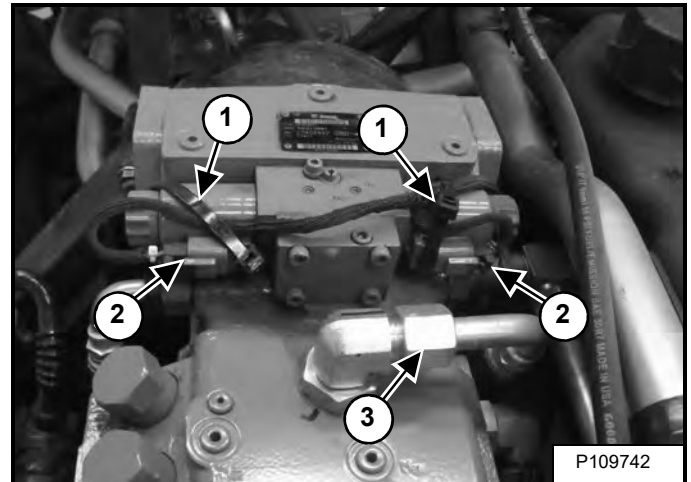
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IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

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Figure 30-40-1



Remove the tie straps (Item 1) and disconnect the connectors (Item 2) [Figure 30-40-1] from the control module.

Remove the rear drive motor hose (Item 3) [Figure 30-40-1] from the top of the hydrostatic pump.