



Technical Service Information

BMW ZF-5HP-18 NO MOVE OR DELAYED ENGAGEMENT

COMPLAINT: Vehicles equipped with ZF-5HP-18 may exhibit a No movement, or a delayed engagement

condition, before and/or after overhaul.

CAUSE: The cause may be, that the "Bypass Ball," located in the pump as shown in Figure 1, may

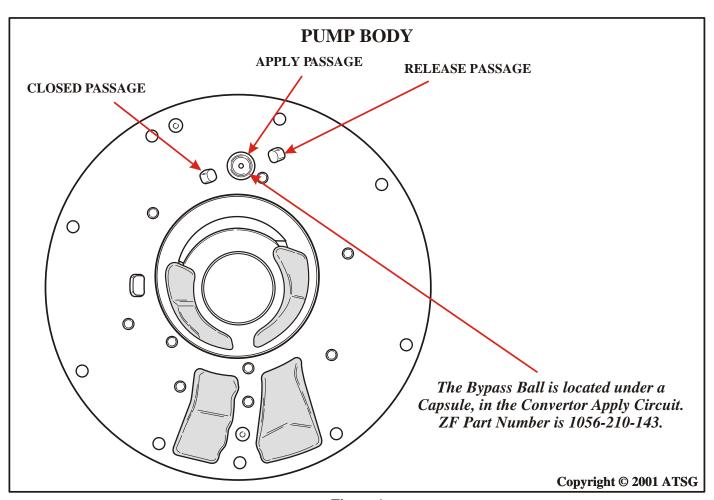
have shrunken down and traveled back through the pump passage leading to the Torque Convertor Valve, sticking the valve in the "stroked" position (See Figure 2). When this valve is stuck in this position it may cause the Torque Convertor to drain-back after sitting for a prolonged period of time. When the vehicle is started after sitting, it may take 10 to 15 minutes for the Torque Convertor to fill back up, and this all depends on the positioning of

the stuck Torque Convertor Valve.

CORRECTION: Locate the Torque Convertor Valve, as shown in Figure 3, and free the valve up, removing the shrunken Bypass Ball from binding the valves movement. Replace the assembly in

pump body with a new one from ZF, available under ZF part number 1056-210-143, if the

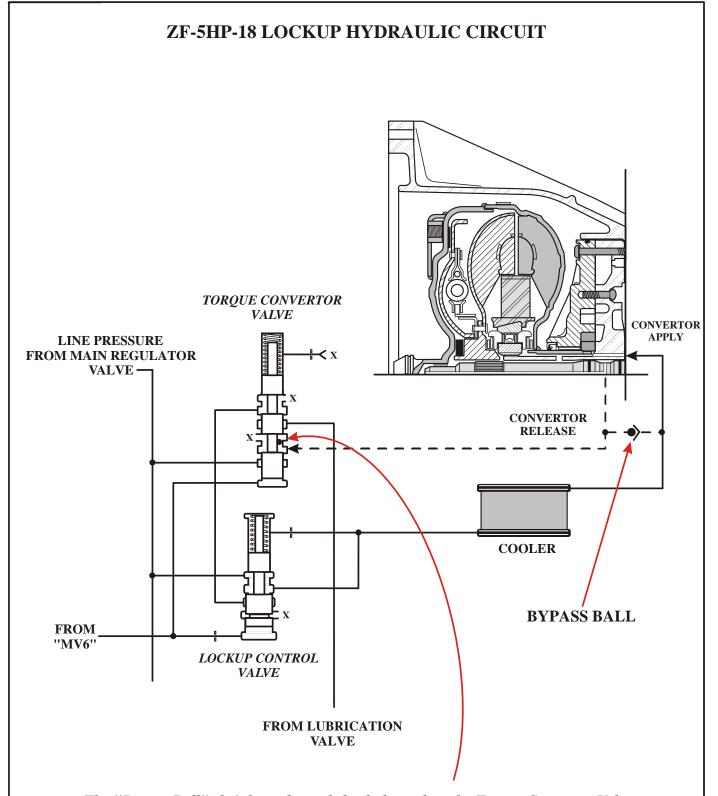
capsule can be removed from the pump body (See Figure 1).





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The "Bypass Ball" shrinks and travels back through to the Torque Convertor Valve and lodges itself in this passage, sticking the valve in this approximate position.

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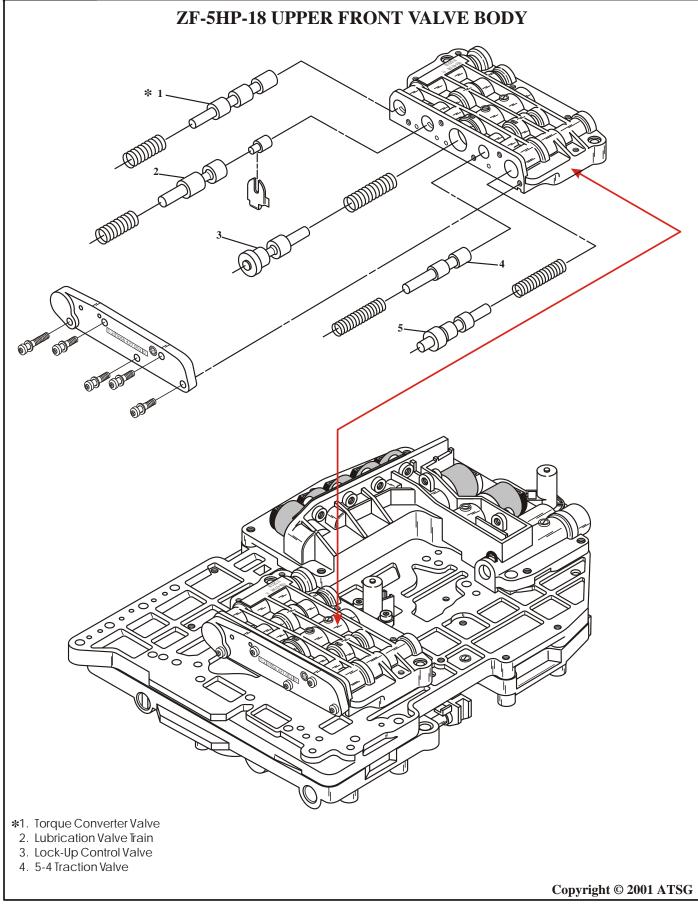


Figure 3

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