



Technical Service Information

45/545RFE NO REVERSE

COMPLAINT: After overhaul, a no reverse condition exists, all forward gears are good. Engagement may be felt due to the reverse clutch applying, but there is no rearward movement.

CAUSE: When performing the valve body repair part of the overhaul process, the accumulator cover plate was removed to service the accumulators. Behind the cover plate is the Low/Reverse Switch Valve and bore plug, (See Figure 1). The only thing that keeps this valve from falling out is the cover plate, there is no other valve retainer.

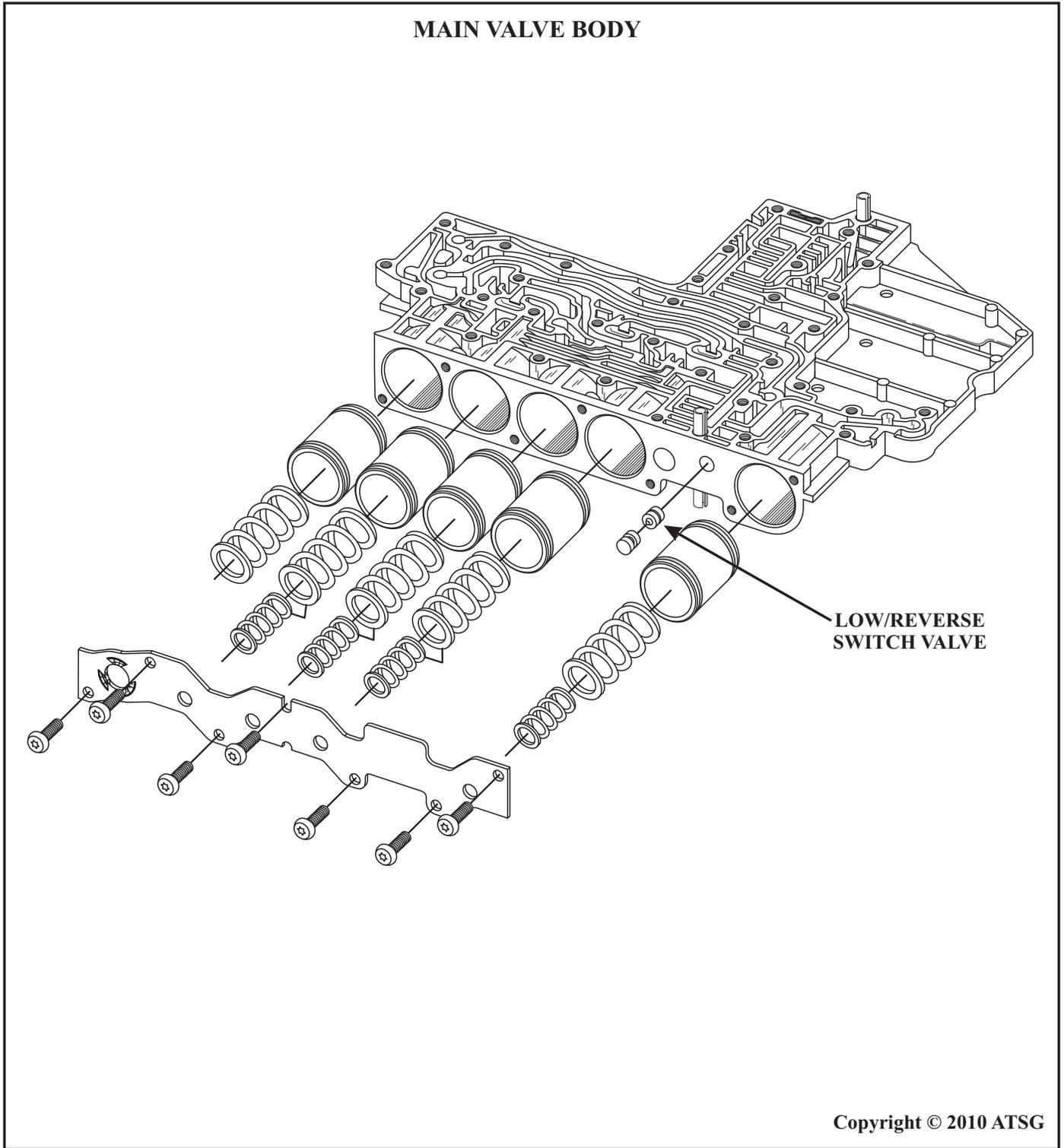
The valve falls out unnoticed and rolls away and the transmission is assembled without the valve. When installation is complete and the shift lever is placed into the reverse position, the vehicle does not back up.

As shown in the hydraulic schematic in Figure 2, the Low/Reverse Switch Valve allows oil from the manual valve into the Low/Reverse clutch circuit to apply the Low/Reverse clutch which, along with the Reverse clutch provides the reverse gear.

When the valve is left out, instead of oil being routed to the Low/Reverse Clutch, the oil will exhaust out through various passages resulting in the failure of the Low/Reverse clutch to apply as shown in the hydraulic schematic in Figure 3.

CORRECTION: Make certain when installing the accumulator cover plate back onto the valve body, that the Low/Reverse Switch Valve is in place. The valve can go in either direction but the bore plug can only go in one way, with the flange facing out.

MAIN VALVE BODY



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Figure 1

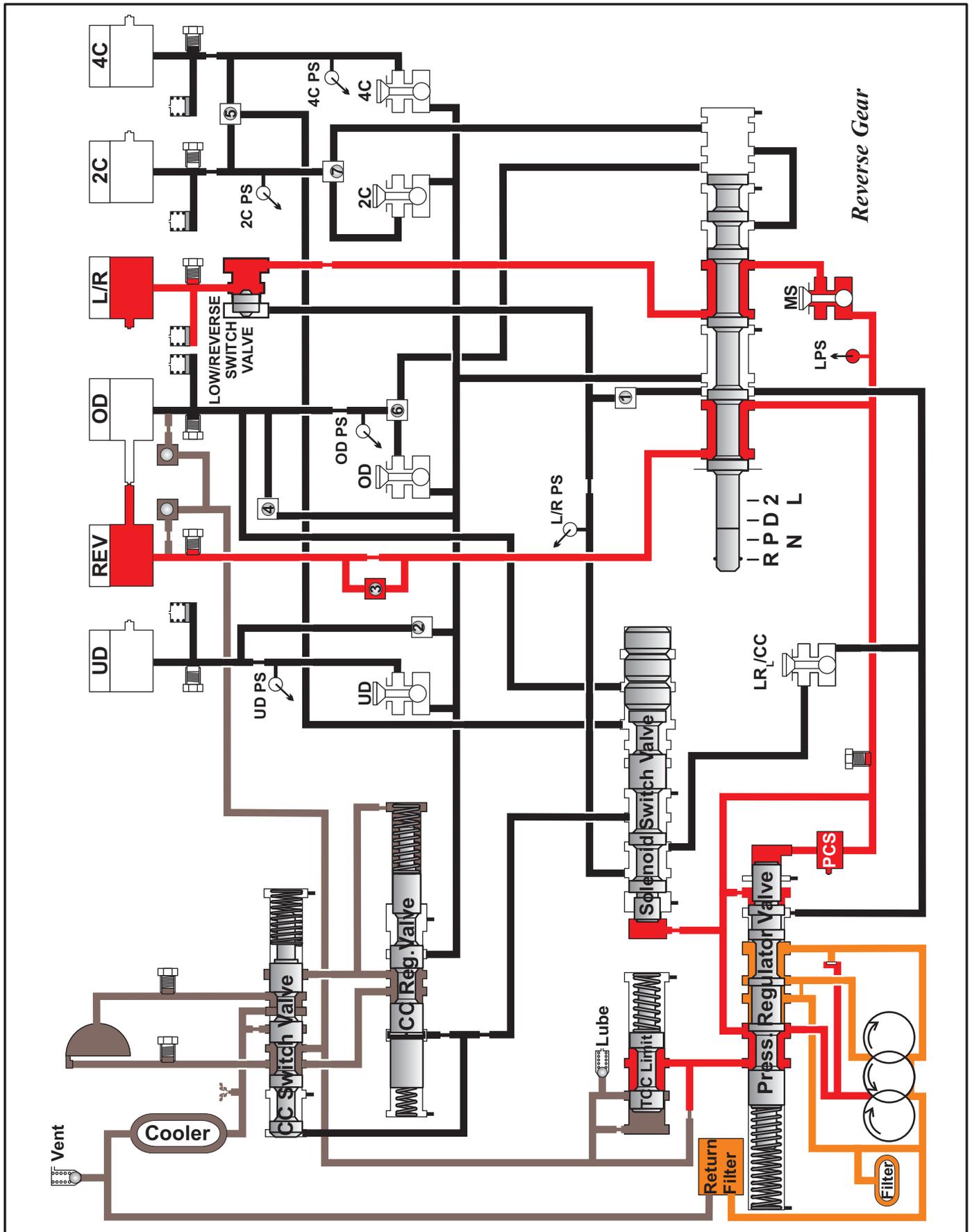


Figure 1

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