



Technical Service Information

GM 6L80 SLIPS IN FORWARD DTC P2728

COMPLAINT: Vehicles equipped with the 6L80 transmission may exhibit a complaint of a slip on take-off in the forward ranges, typically in 1st gear. This complaint may also be accompanied by diagnostic trouble codes, P2723 Clutch Pressure Control Solenoid 5 (1-2 3-4) "Stuck Off," or P2728 Clutch Pressure Control Solenoid 5 (1-2 3-4) "Performance."

CAUSE: The cause may be a shrunken or missing number 1 nylon check ball. Refer to figure 1 for the location of the check ball in the upper valve body assembly. The number one check ball is located in the upper valve body, as shown in Figure 1. When the transmission is operating in drive 1st, 2nd, 3rd, 4th, 5th or 6th gear, drive 1-6 fluid seats the check ball against the drive braking passage and enters the 2-6 clutch/1-2-3-4 clutch feed circuit to apply the 1-2-3-4 clutch. When the check ball shrinks or disintegrates, 1-2-3-4 Clutch pressure will pass thru the ball seat to an exhaust provided by Clutch Select Valve 2. See figure 1 for partial schematic. **Note:** The DTC's listed above are performance codes related to the solenoid that controls the 1-2-3-4 Clutch application, a missing check ball can cause these codes to set, do not assume the TCM/Solenoid assembly is faulty, it could be a simple check ball!

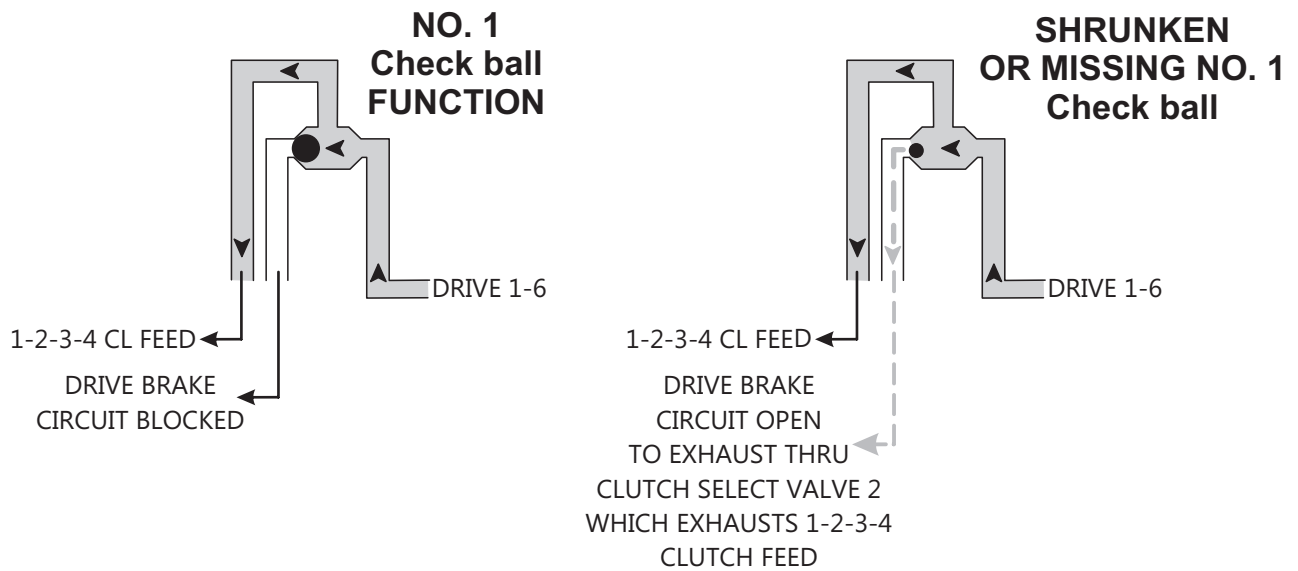
CORRECTION: Replace the nylon check balls with 1/4" torlon check balls available in most aftermarket Torqueflight kits, including 42-48RE. These check balls are made out of more durable material.

SERVICE INFORMATION:

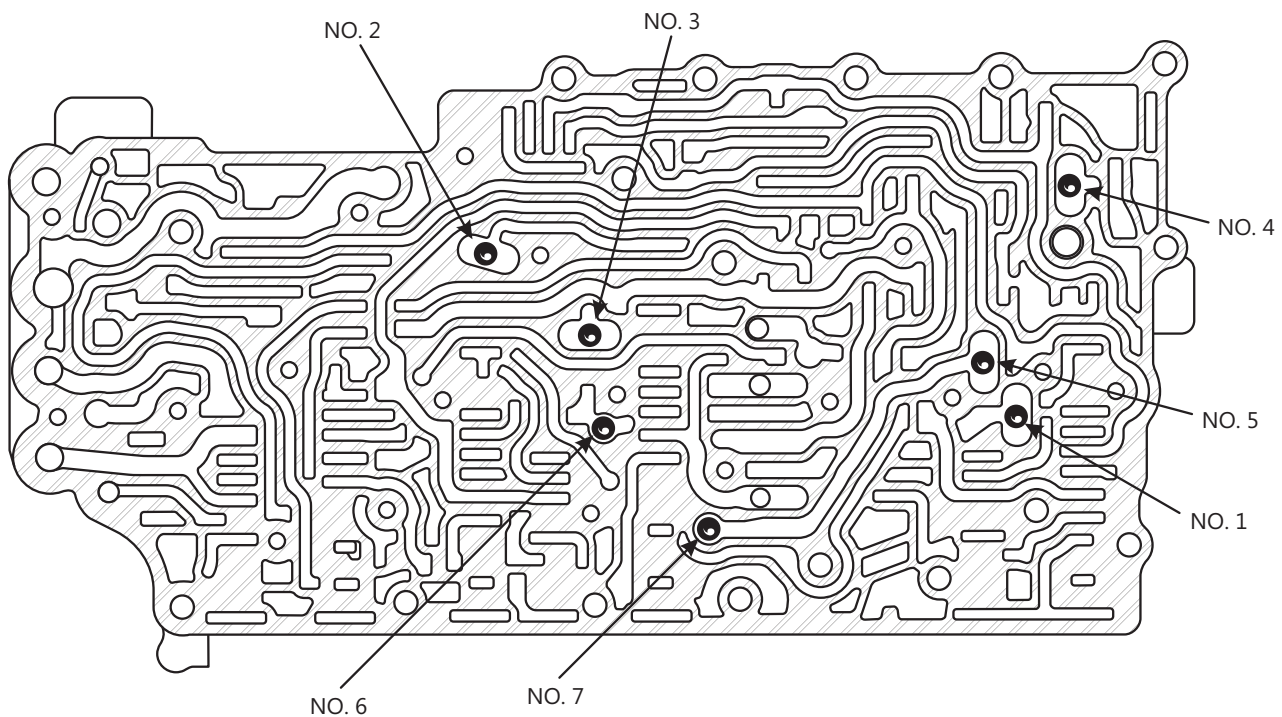
TORLON 1/4" CHECK BALL(Chrysler part number).....52118261

*Special thanks to
Vito at Globe Trans.*

6L80 NUMBER 1 CHECK BALL LOCATION AND FUNCTION IN 1ST GEAR



UPPER VALVE BODY ASSEMBLY



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Figure 1