



Technical Service Information

GM 6L80/90

HARSH ABRUPT SHIFTS

COMPLAINT: A GM truck equipped with the 6L80/90 transmission has a complaint of harsh and abrupt up and down shifts. No codes are set and line pressure appears to be normal.

CAUSE: The Compensator Feed Regulator Valve located in the lower valve body and shown in figure 1 was stuck.

CORRECTION: Line pressure is fed to the compensator feed regulator valve which is identified in the hydraulic schematic in figure 2 by the circled number 1. Compensator feed fluid (green in the hydraulic schematic seen in figure 2) is then sent to the compensator (dam) piston or compensation area in the 1-2-3-4, 3-5-R and the 4-5-6 clutch housings which are identified in the hydraulic schematic in figure 2 by the circled numbers 2, 3, and 4.

When the compensator feed regulator valve sticks, it allows line pressure into the compensator feed oil circuits resulting in the above mentioned complaints. Freeing the valve returned the transmission to normal operation.

6L80/90 HARSH ABRUPT SHIFTS

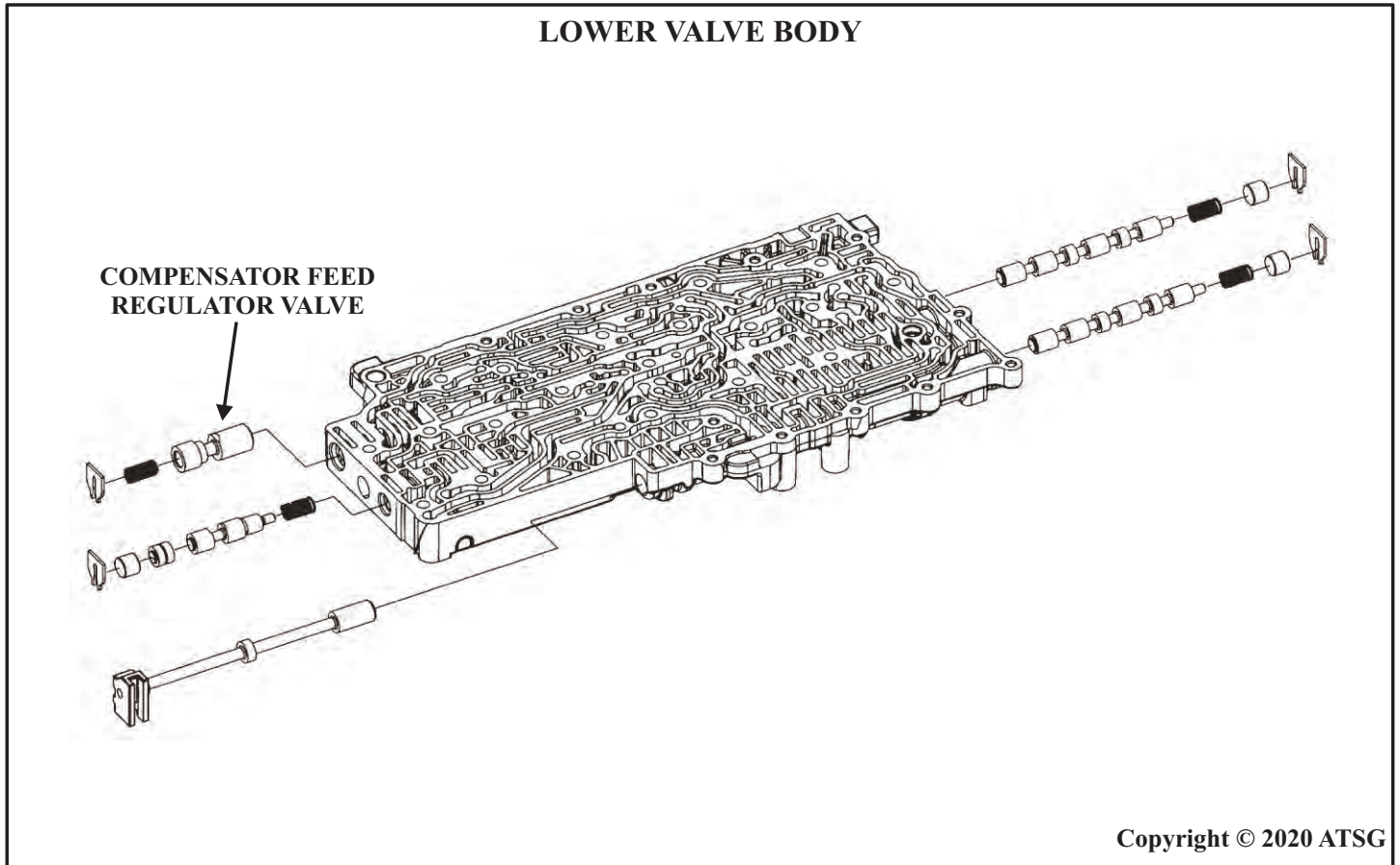


Figure 1

