



Technical Service Information

THM 4L60E/4L80E LATE SHIFTS WHEN COLD

COMPLAINT: Some 1999-2001 model Chevrolet and GMC C/K Trucks and/or 1999-2001 Cadillac Escalades with 4.3, 4.8, 5.3 or 6.0 Liter engines and equipped with the 4L60E or 4L80E transmission, may, on initial start up during cold weather, exhibit late 2-3 and 3-4 shifts and delayed converter clutch application.

When viewing solenoid command on the scan tool, the scan tool confirms that the late shift is being commanded and there is no TCC signal sent, until the vehicle is driven for a few miles, at which time the 2-3 and 3-4 shifts return to normal operation as well as normal TCC operation.

CAUSE: Cold weather transmission shift characteristics *have been revised* by the OEM, on the above mentioned vehicles to provide faster engine warm-up and improved heater performance.

CORRECTION: During the initial start-up, if Intake Air Temperature (IAT) is below 32°F (32°C) the 2-3 shift, 3-4 shift and TCC application will be affected as follows, and is considered *normal*.

2-3 SHIFT:

- If throttle position (TPS) is below 37%, the 2-3 shift will occur at a minimum speed of 32 mph (51 km/h).
- If the TPS is above 37% throttle opening, the 2-3 shift will revert back to a normal shift pattern.
- When engine coolant temperature (ECT) reaches 171°F (77°C), the 2-3 shift will revert back to a normal shift pattern.

3-4 SHIFT:

- If throttle position (TPS) is below 37%, the 3-4 shift will occur at a minimum speed of 47 mph (75 km/h).
- If TPS is above 37% throttle opening, the 3-4 shift will revert back to a normal shift pattern.
- When engine coolant temperature (ECT) reaches 171°F (77°C), the 3-4 shift will revert back to a normal shift pattern.

TCC: APPLICATION

- If the transmission fluid temperature is less than 62.6°F (17°C), TCC operation will be inhibited, and will not resume until the transmission fluid temperature is greater than 68°F (20°C).

SERVICE INFORMATION:

Refer to Chevrolet/GMC factory TSB 01-07-30-013A

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