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## Road Testing Vehicle

### Shift Point Road Test

**NOTE:** Always drive the vehicle in a safe manner according to driving conditions and obey all traffic laws.

### Upshift Gear Sequence

At times the 10-speed transmission may **skip** gears when the vehicle starts from a complete stop. This is **normal** and desired **behavior**.

At part pedal when acceleration is brisk, single step upshifts would result in very frequent shift events (very short time in gear). Double step upshifts results when a longer time is spent in gear.

However, at light pedal or road load, single step upshifts **will** occur. The small 10-speed gear steps allow the engine speed to drop to lower values than it would in the 6-speed transmission; providing for the best fuel economy. In contrast, when the 10-speed transmission is at heavy or max pedal, the small steps keep the engine closer to the horsepower peak for best performance.

### Downshift Gear Sequence

At times the 10-speed transmission may **skip** gears when the vehicle down shifts to a complete stop. This is **normal** and desired **behavior**.

The same **skip** shift strategy that is used for the upshift may be applied during down shift.

Most performance based automatic transmission DTCs require the fault to be detected multiple times before setting a DTC. In many instances the faults must be detected consecutively a predetermined number of times (up to five). Performing the shift point road test as detailed below increases the likelihood that a DTC sets if a fault is present in the system.

### Shift Point Road Test

1. Bring engine and transmission up to normal operating temperature.
2. Operate the vehicle with the selector lever in the D position.
3. From a stop, accelerate the vehicle to 80 km/h (50 mph) with the shifts occurring at approximately 2000 rpm. Stay in 10th gear for 30 seconds or until the TCC applies. Repeat this two times.
4. From a stop, accelerate the vehicle to 80 km/h (50 mph) with the shifts occurring at approximately 3000 rpm. Stay in 10th gear for 30 seconds or until the TCC applies. Repeat this two times.
5. If the transmission fails to upshift/downshift,  
REFER to: [Diagnosis By Symptom](#) (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).

**Shift Speed Chart**

Shift	Speed
1-2	15 mph (24 km/h)
2-3	20 mph (32 km/h)
3-4	27 mph (43 km/h)
4-5	32 mph (51 km/h)
5-6	37 mph (60 km/h)
6-7	42 mph (68 km/h)
7-8	48 mph (77 km/h)
8-9	52 mph (84 km/h)
9-10	60 mph (97 km/h)

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