

Shift Point Road Test

This test verifies that the shift control system is operating correctly.

1. Bring the engine and transmission up to normal operating temperature.
2. Operate the vehicle with the selector lever in the D position.
3. Apply minimum throttle and observe the vehicle speed at which an upshift occurs and the Torque Converter Clutch (TCC) engages. Refer to the following Shift Speeds chart.
4. Stop the vehicle. Select the D position and cancel Overdrive (O/D) by pressing the Transmission Control Switch (TCS). Repeat Step 3. The transmission will make all upshifts except 4-5 and the **TCC** should apply above 46 km/h (27 mph).
5. Press the accelerator pedal to the floor, Wide Open Throttle (WOT). The transmission should shift from 3rd to 2nd, or 3rd to 1st, depending on vehicle speed, and the **TCC** should release.
6. With the vehicle speed above 48 km/h (30 mph), move the transmission selector lever from the D position to the manual 1 position and release the accelerator pedal. The transmission should immediately downshift to 3rd gear. When vehicle speed drops below 32 km/h (20 mph), the transmission should downshift into 1st gear.
7. If the transmission fails to upshift/downshift or the **TCC** does not apply/release, refer to [Diagnosis By Symptom](#) in this section for possible causes.

Shift Speeds — 4.0L Engine

NOTE: Always drive the vehicle in a safe manner according to driving conditions and obey all traffic laws, do not exceed posted limits.

Throttle Position	Overdrive Position "D"	Axle Ratio
	Shift	Shift Speed
Closed	5-4	37-42 km/h (23-26 mph)
	4-1	16-19 km/h (10-12 mph)
Minimum	1-2	19-21 km/h (12-13 mph)
Monitor PID:	2-3	27-31 km/h (17-19 mph)
Throttle Position (TP) Volt 1.25	3-4	34-35 km/h (21-22 mph)
	4-5	39-43 km/h (24-27 mph)
Wide	1-2	64-68 km/h (40-42 mph)
Open	2-3	93-101 km/h (58-63 mph)
	3-4	140-145 km/h (87-90 mph)
	4-5	171-174 km/h (106-108 mph)

Shift Speeds — 4.6L Engine

NOTE: Always drive the vehicle in a safe manner according to driving conditions and obey all traffic laws, do not exceed posted limits.

	Overdrive Position "D"	Axle Ratio

Throttle Position	Shift	Shift Speed
Closed	5-4	39 km/h (24 mph)
	4-1	16 km/h (10 mph)
Minimum	1-2	18 km/h (11 mph)
Monitor PID:	2-3	27 km/h (17 mph)
Throttle Position (TP) Volt 1.25	3-4	35 km/h (22 mph)
	4-5	39 km/h (24 mph)
Wide	1-2	68 km/h (42 mph)
Open	2-3	106 km/h (66 mph)
	3-4	148 km/h (92 mph)
	4-5	217 km/h (135 mph)
