SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
Vehicle Speed Sensor - Low input	P0502	0 RPM to 6000 RPM This DTC detects a low vehicle speed when the vehicle has a large engine speed in a drive gear range.	Output Speed < 150 rpm	Gear Range is not Park/Neutral     No TPS high or low DTC's set     No Map Sensor DTC's set     No PSA DTC set     Vacuum: 0 to 105 KPA     Engine Torque: 40 to 400 ft-lbs     Throttle Position > 20%     Engine Speed > 3000 RPM	2.5 seconds Continuous	DTC Type B
Vehicle Speed Sensor	P0503	0 RPM to 6000 RPM This DTC detects an unrealistic large drop in vehicle speed.	In <b>P/N:</b> Output Speed drop > 8000 RPM <b>Not P/N:</b> Output Speed drop >1300 RPM	<ul> <li>Time since last Gear Range Change &gt; 6 Seconds</li> <li>Engine Speed &gt; 450 rpm for 5 seconds and not in fuel cutoff</li> <li>No Output Speed rise &gt; 600 rpm within 6 seconds</li> <li>No PSA DTC set</li> </ul>	In park or neutral 409 seconds Not in park or neutral 3 seconds	DTC Type B
TCC Enable Solenoid Electrical	P0740	0V to 12V This DTC detects a continuous open or short to ground in the TCC circuit or the TCC solenoid	Fail Counter >43 Counts out of 50 Total Counts	<ul> <li>System Voltage: 10 to 16 volts</li> <li>Engine Speed &gt; 450 rpm for 5 seconds and not in fuel cutoff</li> </ul>	Continuous	DTC Type B
TCC System Stuck ON	P0742	This DTC detects low torque converter slip when the TCC is commanded off.	TCC Slip: -20 to +20 RPM Fail Counter >= 2	<ul> <li>Engine Speed &gt; 450 rpm for 5 seconds and not in fuel cutoff</li> <li>No Range change within 5 sec.</li> <li>No MAP low and high DTC set</li> <li>No TP high or low sensor DTC's</li> <li>No VSS DTC's</li> <li>No TCC Enable Sol. DTC's</li> <li>No TCC Control Sol. DTC's</li> <li>No PSA DTC set</li> <li>Eng Torque: 50 to 400 ft-lbs</li> <li>Vacuum: 0 to 105 kPa</li> <li>Commanded Gear is not 1st</li> <li>Gear Range is D4</li> <li>Throttle Position: 17% to <b>45%</b></li> <li>TCC is commanded off</li> <li>Engine Speed: 1000 to 3000 rpm</li> <li>Speed Ratio: 0.64 to 1.35</li> <li>Vehicle Speed: 15 to 50 mph</li> </ul>	5 seconds Continuous	DTC Type B

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
Shift Solenoid A Performance	P0751	This DTC detects abnormal shift patterns: Stuck OFF: 2-2-3-3 pattern Stuck ON: 1-1-4-4 pattern	Fail Counter >= 3. The fail counter is incremented when the following fail cases are true: Stuck OFF: 1,2,3,& 4 Stuck ON: 1,2,3, & 5	General         -Fingine Speed > 450 rpm for 5 seconds and not in fuel cutoff         -Gear range is D4         -No TP high or low DTC's         -No VSS low or intermittent DTC's         -No Solenoid electrical DTC's         -No PSA DTC set         -Time since last shift is >0 sec         -Vehicle speed >5 mph         -Trans Temp.: 20 C to 130 C         Fail Case 1         - Commanded 1-2 shift         - TPS: 10% to 45%         - TPS constant within +/- 7%         - Vehicle Speed: 5 to 35 mph         - After 2 seconds, engine speed in 2nd gear must be 80 rpm > last speed in 1st gear         Fail Case 2         - Commanded 2-3 shift         - TPS constant within +/- 7%         - Vehicle Speed: 20 to 50 mph         - After 2 seconds, engine speed in 3rd gear must be 100 rpm < last speed in 2nd gear	Continuous	DTC Type A
Shift Solenoid A Electrical	P0753	0V to 12V This DTC detects a continuous open or short to ground in the SSA circuit or the SSA solenoid	Fail Counter >43 Counts out of 50 Total Counts To set the fault:	- System Voltage: 10 to 16 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	DTC Type B

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
Shift Solenoid B Performance	P0756	This DTC detects abnormal shift patterns: Stuck OFF: 4-3-3-4 pattern Stuck ON: 1-2-2-1 pattern	Fail Counter >= 3 . The fail counter is incremented when the following fail cases are true: Stuck OFF: 1 and 3, or 2 and 3 Stuck ON: 3 and 4	<ul> <li>Engine Speed &gt; 450 rpm for 5 seconds and not in fuel cutoff</li> <li>Gear Range is D4</li> <li>No TPS DTC's</li> <li>No VSS DTC's</li> <li>No solenoid electrical DTC's</li> <li>No TCC Stuck On DTC.</li> <li>No FAA DTC set</li> <li>No Trans Temp DTC's set.</li> <li>Vacuum: 0 to 105 kpa</li> <li>Engine Torque: 5 to 450 ft lbs</li> <li>Trans Temp: 20 C to 130 C</li> <li>Vehicle Speed &gt; 5 MPH</li> </ul> <b>Fail Case 1</b> <ul> <li>1st gear commanded &gt; 2.0 sec.</li> <li>Output Speed: 400 to 1500 rpm</li> <li>Speed Ratio: 0.5 to 3.0</li> <li>Throttle Position &gt; 15%</li> <li>TCC Slip: -3000 to -100 rpm for &gt; 1.0 seconds</li> </ul> <b>Fail Case 2</b> <ul> <li>2nd gear command &gt; 409.5 sec</li> <li>Engine Torque: 40 to 400 ft lbs</li> <li>Vacuum: 0 to 105 kpa</li> <li>TCC Slip: 8191 to 8191 rpm</li> <li>Output Speed: 400.5 sec</li> </ul> <b>Fail Case 3</b> <ul> <li>Time with 3rd gear commanded: 2.0 to 5 sec</li> <li>Fail <b>Case 3</b></li> <li>Time with 3rd gear commanded: 2.0 to 5 sec</li> </ul> <b>Fail Case 3</b> <ul> <li>Time with 3rd gear commanded: 2.0 to 5 sec</li> <li><b>Fail Case 3</b></li> <li>Time with 3rd gear commanded: 2.0 to 5 sec</li> <li><b>Fail Case 3</b></li> <li>Time with 3rd gear commanded: 2.0 to 5 sec</li> <li><b>Fail Case 3</b></li> <li>Time with 3rd gear commanded: 2.0 to 5 sec</li> <li><b>Fail Case 3</b></li> <li>Time with 3rd gear commanded: 2.0 to 5 sec</li> <li><b>Fail Case 4</b></li> <li>Ath Gear commanded for &gt; 1 sec</li> <li>Output Speed: 1400 to 2500 rpm</li> <li>Speed Ratio: 1.5 sec</li> </ul>	Continuous	DTC Type A
Shift Solenoid B Electrical	P0758	0V to 12V This DTC detects a continuous open or short to ground in the SSB circuit or the SSB solenoid	Fail Counter >43 Counts out of 50 Total Counts .	- System Voltage: 10 to 16 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	DTC Type A
3-2 Downshift Solenoid Electrical	P0785	0V to 12V This DTC detects a continuous open or short to ground in the SSB circuit or the SSB solenoid	Fail Counter >43 Counts out of 50 Total Counts	<ul> <li>System Voltage: 10 to 16 volts</li> <li>Engine Speed &gt; 450 rpm for 5 seconds and not in fuel cutoff</li> </ul>	Continuous	DTC Type A

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND FREQUENCY	MIL ILLUMINATION TYPE
PSA Circuit Malfunction	P1810	OV to 12V This DTC detects an invalid state of the PSA sensor or the PSA circuit by deciphering the PSA inputs.	Fail Case 1         Illegal Trans Pressure Switch State (111) or (101)         Fail Case 2         Gear range is D2, D4, or Reverse during engine startup.         Fail Case 3         Gear range is Park or Neutral when operating in D4.	Fail Case 1         - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff         - System Voltage: 10 to 16 volts         Fail Case 2         - System Voltage: 10 to 16 volts         - No VSS DTC's         - Vehicle Speed < 2 mph	Fail Case 1 60 seconds Fail Case 2 5 Seconds Fail Case 3 10 seconds Continuous	DTC Type B
TCC PWM Solenoid Electrical	P1860	0V to 12V This DTC detects a continuous open or short to ground in the TCC PWM circuit or the TCC PWM sensor	Fail Counter >43 Counts out of 50 Total Counts	<ul> <li>System Voltage: 10 to 16 volts</li> <li>Engine Speed &gt; 450 rpm for 5 seconds and not in fuel cutoff</li> <li>Commanded Gear is 1st</li> <li>TCC Duty Cycle &lt; 10% or &gt; 90%</li> </ul>	Continuous	DTC Type B
Transmission Component Slipping	P1870	This DTC detects excessive TCC slip when the torque converter clutch should be engaged.	If TCC slip is: <b>130 to 800 rpm</b> for 7 seconds, then increment the Trans Slip Counter by one. When the counter reaches 3, set the code.	<ul> <li>Engine Speed &gt; 450 rpm for 5 seconds and not in fuel cutoff</li> <li>Gear Range is D4</li> <li>No PSA DTC's set</li> <li>No Trans Temp DTC's set</li> <li>No VSS DTC's</li> <li>No VSS DTC's</li> <li>No solenoid electrical DTC's</li> <li>Shift Solenoid Performance Diagnostic counters are all zero</li> <li>TPS: 9.0% to 35%</li> <li>Trans temp: 20 C to 130C</li> <li>Engine Torque: 50 to 400 ft-lbs</li> <li>Vac: 0 to 105 kpa</li> <li>Speed ratio: 0.69 to 0.88</li> <li>Engine Speed: 1500 to 3000 rpm</li> <li>Vehicle Speed: 30 to 70 mph</li> </ul> Fail Case 1 <ul> <li>TCC commanded on for &gt; 5 sec and at max duty cycle (95%).</li> </ul>	Continuous	DTC Type B

SENSED PARAMETER	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA AND THRESHOLD VALUE(S)	SECONDARY PARAMETERS AND ENABLE CONDITIONS	TIME LENGTH AND Frequency	MIL ILLUMINATION TYPE
Four Wheel Drive Low Circuit Performance	P1875	OV to 12V This DTC detects a continuous open or short to ground in the Four Wheel Drive low Circuit	Stuck On         Engine Spd Divided by Transfer Case Output         Spd Ratio:         .8 to 1.2         Stuck Off         Engine Spd Divided by Transfer Case Output         Spd Ratio:         2.5 to 2.9	<ul> <li>Engine Speed &gt; 450 rpm for 5 seconds and not at fuel cut off</li> <li>No TPS DTC's set</li> <li>Gear Range is D4</li> <li>Shift Solenoid Performance Counters are zero</li> <li>No VSS Low DTC's set</li> <li>No TCC Enable Sol. DTC's set</li> <li>No TCC Control Sol. DTC's set</li> <li>No SCA Sol. DTC's set</li> <li>No SSB Sol. DTC's set</li> <li>No SCC DTC's set</li> <li>No TCC DTC's set</li> <li>No TCC DTC's set</li> <li>Sol. DTC's set</li> <li>No TCC DTC's set</li> <li>No TCC DTC's set</li> <li>Sol. DTC's set</li> <li>No TCC DTC's set</li> <li>Sol. DTC's set</li> <li>No TCC DTC's set</li> <li>No TCC DTC's set</li> <li>No TCC DTC's set</li> <li>No TCC DTC's set</li> <li>Stuck ON</li> <li>4wd Low switch in 4wd Low</li> <li>Transfer case in 4wd Low</li> <li>TCC Slip: -3000 to -50 rpm</li> </ul> Stuck OFF <ul> <li>4wd Low switch not in 4wd Low</li> <li>Transfer case is in 4wd Low</li> <li>TCC Slip: 100 to 3000 rpm</li> </ul>	Stuck ON: 5 Seconds Stuck OFF: 10 Seconds 1 Occurance Continuous	DTC Type B