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	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: 30 to 400 ft-lbs     Throttle Position > 15%     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 P/N: Output Speed drop > 8000 RPM Not P/N: Output Speed drop >1300 RPM	<ul> <li>Time since last Gear Range Change &gt; 6 Seconds</li> <li>Engine Speed &gt; 300 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: 8 to 18 volts</li> <li>Engine Speed &gt; 300 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 +30 RPM 3 occurrences for the duration of the fail timer.	<ul> <li>Engine Speed &gt; 300 rpm for 5 seconds and not in fuel cutoff</li> <li>No Range change within 6 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 TCC Control Sol. DTC's</li> <li>No PSA DTC set</li> <li>Eng Torque: 40 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: 10% to 45%</li> <li>TCC is commanded off</li> <li>Engine Speed: 1000 to 3500 rpm</li> <li>Speed Ratio: 0.65 to 1.3</li> <li>Vehicle Speed: 20 to 55 mph</li> </ul>	4 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 I 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         -Engine Speed > 300 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 DTC 742         -No PSA DTC set         -Time since last shift is >0 sec         -Vehicle speed >5 mph         -Trans Temp.: 20 C to 130 C	Continuous	DTC Type A
				Fail Case 1- Commanded 1-2 shift- TPS: 10% to 45%- TPS constant within +/- 5%- Vehicle Speed: 5 to 35 mph- After 2 seconds, engine speed in 2nd gear must be 80 rpm > last speed in 1st gearFail Case 2- Commanded 2-3 shift- TPS: 10% to 45%- TPS constant within +/- 7%- Vehicle Speed: 10 to 50 mph- After 2 sec, engine speed in 3rd gear must be 50 rpm < last speed in 2nd gear		
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	<ul> <li>System Voltage: 8 to 18 volts</li> <li>Engine Speed &gt; 300 rpm for 5 seconds and not in fuel cutoff</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
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; 300 rpm for 5 sec 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 TCC Stuck On DTC.</li> <li>No PSA DTC set</li> <li>Trans Temp: 20 C to 130 C</li> <li>Vehicle Speed &gt; 5 MPH</li> <li>Fail Case 1</li> <li>1 st gear commanded &gt; 1.5 sec.</li> <li>Engine Torque: 40 to 400 ft lbs</li> <li>Vacuum: 0 to 105 kpa</li> <li>TCC Slip: -2000 to 0 rpm</li> <li>Output Speed: 400 to 1500 rpm</li> <li>Speed Ratio: 0.7 to 3.0</li> <li>Throttle Position &gt; 25%</li> <li>Fail Case 2</li> <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: 8101 to 8191 rpm</li> <li>Speed Ratio: 8 to 8</li> <li>Throttle Position &gt; 99.9%</li> <li>Fail Timer &gt; 409.5 sec</li> <li>Fail Case 3</li> <li>Time with 3rd gear commanded: 2.05 to 6 seconds</li> <li>TPS: 10% to 50%</li> <li>TPS constant within +/- 7%</li> <li>Engine Torque: 40 to 400 ft lbs</li> <li>Vacuum: 0 to 105 kpa</li> <li>Speed Ratio in Third gear does not drop more than 0.3 from the last Speed Ratio in Second gear</li> <li>TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Second gear</li> <li>TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Third gear remains &gt; 400 rpm higher than the last TCC Slip in Xo0 to 3000 rpm</li> <li>Fail Timer &gt; 1.5 se</li></ul>	Continuous	DTC Type
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	<ul> <li>System Voltage: 8 to 18 volts</li> <li>Engine Speed &gt; 300 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
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	- System Voltage: 8 to 18 volts - Engine Speed > 300 rpm for 5 seconds and not in fuel cutoff	Continuous	DTC Type A
PSA Circuit Malfunction	P1810	0V 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 > 300 rpm for 5 seconds and not in fuel cutoff         - System Voltage: 8 to 18 volts         Fail Case 2         - System Voltage: 8 to 18 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	- TPS: 8% to 45%     - System Voltage: 8 to 18 volts     - Engine Speed > 300 rpm for 5 seconds and not in fuel     cutoff     - Commanded Gear is 1st     - TCC Duty Cycle < 10% or > 90%	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
Transmission Component Slipping	P1870	This DTC detects excessive TCC slip when the torque converter clutch should be engaged.	If TCC slip is: <b>80 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; 300 rpm for 5 seconds and not in fuel cutoff</li> <li>Gear is not 1st</li> <li>Gear Range is D4</li> <li>No TPS High or Low 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: 10.0% to 50%</li> <li>Trans temp.: 20 C to 130C</li> <li>Engine Torque: 40 to 400 ft-lbs</li> <li>Speed ratio: 0.67 to 0.9</li> <li>Engine Speed: 1200 to 3500 rpm</li> <li>Vehicle Speed: 35 to 65 mph</li> </ul> Fail Case 1 <ul> <li>TCC at max apply for &gt; 0 sec</li> <li>TCC commanded on for &gt; 5 sec</li> </ul> Fail Case 2 <ul> <li>Run fail case 2 immediately after fail case 1 increments the trans slip counter to either 1or 2. Discontinue fail case 2 if the TCC is commanded OFF at any time.</li> <li>TPS: 10% to 40%</li> </ul> Criteria A If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Go to max pressure freeze adapts go to criteria B If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Command TCC OFF for 1.5 seconds go to criteria C If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Seconds go to criteria C If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Seconds go to criteria C If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Seconds go to criteria C If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Seconds go to criteria C If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Command TCC OFF for 1.5 seconds go to criteria C If : 80 rpm < TCC slip < 800 rpm for 7 seconds, then: Sec code p1870	Continuous	DTC Type B