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 - Intermittent	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	Time since last Gear Range Change > 6 Seconds     Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff     No Output Speed rise > 600 rpm within 6 seconds     No PSA DTC set	In park or neutral 409 seconds  Not in park or neutral 3 seconds	DTC Type B
TCC Enable Solenoid Electrical	P0740	OV 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	- System Voltage: 8 to 18 volts - Engine Speed > 300 rpm for 5 seconds and not in fuel cutoff	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	- Engine Speed > 300 rpm for 5 seconds and not in fuel cutoff  - No Range change within 5 sec No MAP low and high DTC set - No TP high or low sensor DTC's - No VSS DTC's - No TCC Enable Sol. DTC's - No TCC Control Sol. DTC's - No TCC Control Sol. DTC's - No PSA DTC set - Eng Torque: 50 to 400 ft-lbs - Vacuum: 0 to 105 kPa - Commanded Gear is not 1st - Gear Range is D4 - Throttle Position: 17% to 45% - TCC is commanded off - Engine Speed: 1000 to 3000 rpm - Speed Ratio: 0.64 to 1.35 - Vehicle Speed: 15 to 50 mph	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 -Eng. 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 DTC 742 -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: 10% to 45% - TPS constant within +/- 7% - Vehicle Speed: 20 to 50 mph - After 2 sec, engine speed in 3rd gear must be 100 rpm < last speed in 2nd gear Fail Case 3 - Commanded 3-4 shift - TPS: 10% to 45% - TPS constant within +/- 7% - Vehicle speed: 30 to 65 mph - After 2 seconds, engine speed in 4th gear must be 10 rpm > last speed in 3rd gear Fail Case 4 - Commanded 4th gear - TCC commanded ON - TPS: 8% to 35% - Speed Ratio: 0.85 to 1.2 - TCC Slip: 200 to 1000 rpm for > 4 sec Fail Case 5 - Commanded 4th gear - TCC commanded 4th gear - TCC commanded ON - TPS: 8% to 35% - Speed Ratio: 0.60 to 0.80 - TCC Slip: -20 to +50 rpm for > 4 sec	Continuous	DTC Type A
Shift Solenoid A Electrical	P0753	OV 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	- Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff - Gear Range is D4 - No TPS DTC'S - No VSS DTC'S - No solenoid electrical DTC'S - No TCC Stuck On DTC No PSA DTC set - No Trans Temp DTC's set Vacuum: 0 to 105 kpa - Engine Torque: 5 to 450 ft lbs - Trans Temp: 20 C to 130 C - Vehicle Speed > 5 MPH Fail Case 1 - 1st gear commanded > 2.0 sec Output Speed: 400 to 1500 rpm - Speed Ratio: 0.5 to 3.0 - Throttle Position > 15% - TCC Slip: -3000 to -100 rpm for > 1.0 seconds Fail Case 2 - 2nd gear command > 409.5 sec - Engine Torque: 40 to 400 ft lbs - Vacuum: 0 to 105 kpa - TCC Slip: 8191 to 8191 rpm - Output speed: 8191 to 8191 rpm - Output speed: 8191 to 8191 rpm - Output speed: 8191 to 8191 rpm - Speed Ratio: 8 to 8 - Throttle Position > 99.9% - Fail Timer > 409.5 sec Fail Case 3 - Time with 3rd gear commanded: 2.0 to 5 seconds - TPS: 13% to 50% - TPS constant within +/- 7% - Speed Ratio in Third gear does not drop more than 0.3 from the last Speed Ratio in Second gear - TCC Slip in Third gear remains > 300 rpm higher than the last TCC Slip in Second gear - TCC Slip in Third gear remains > 300 rpm higher than the last TCC Slip in Second gear - Fail Timer > 1.5 sec Fail Case 4 - 4th Gear commanded for > 1 sec - Output Speed: 1400 to 2500 rpm - Speed Ratio: 2.05 to 8.0 - Throttle Position > 13% - TCC Slip: 1000 to 4000 rpm for > 1 seconds.	Continuous	DTC Type A
Shift Solenoid B Electrical	P0758	OV 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	OV 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  1. Engine Speed < 80 rpm for > 0.1 seconds, then, 2. Engine Speed: 80 to 550 rpm for > 0.1 seconds, then, 3. Engine Speed > 550 rpm  Fail Case 3 - Engine Speed > 300 rpm for 5 seconds and not in fuel cutoff - System Voltage: 8 to 18 volts - 4th gear commanded - Engine Torque: 40 to 400 ft-lbs - Vacuum: 0 to 105 kPa - TCC Locked On - No VSS DTC's - Speed Ratio: 0.60 to 0.75` - TPS: 10% to 50%	Fail Case 1 60 seconds  Fail Case 2 5 Seconds  Fail Case 3 10 seconds  Continuous	DTC Type B
TCC PWM Solenoid Electrical	P1860	OV 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	- 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:  130 to 800 rpm  for 7 seconds, then increment the Trans Slip Counter by one.  When the counter reaches 3, set the code.	- Engine Speed > 300 rpm for 5 seconds and not in fuel cutoff - Gear is not 1st - Gear Range is D4 - No PSA DTC's set - No Trans Temp DTC's set - No TPS High or Low DTC's - No VSS DTC's - No solenoid electrical DTC's - Shift Solenoid Performance Diagnostic counters are all zero - TPS: 9.0% to 35% - Trans temp.: 20 C to 130C - Engine Torque: 50 to 400 ft-lbs - Vac: 0 to 105 kpa - Speed ratio: 0.69 to 0.88 - Engine Speed: 1500 to 3000 rpm - Vehicle Speed: 30 to 70 mph	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	- Engine Speed > 300 rpm for 5 seconds and not at fuel cut off  - No TPS DTC's set - No PSA DTC's set - Gear Range is D4 - Shift Solenoid Performance Counters are zero - No VSS Low DTC's set - No TCC Enable Sol. DTC's set - No TCC Control Sol. DTC's set - No SSA Sol. DTC's set - No SSB Sol. DTC's set - No SSB Sol. DTC's set - No TCC DTC's set - No TCC DTC's set - Eng Torque: 50 to 400 ftlbs - VAC: 0 to 105 kpa - Trans Temp: 20C to 130C - Vehicle Speed > 7 MPH - TPS: 17% to 50%  Stuck ON - 4wd Low switch in 4wd Low - Transfer case not in 4wd Low - TCC Slip: -3000 to -50 rpm  Stuck OFF - 4wd Low switch not in 4wd Low - Transfer case is in 4wd Low - TCC ON - TCC Slip: 100 to 3000 rpm	Stuck ON: 5 Seconds  Stuck OFF: 10 Seconds 1 Occurance  Continuous	DTC Type B