SENSED PARAMETER	FAULT CODE	SENSOR SIGNAL TYPE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	MONITORING METHOD	FAULT CODE STORAGE AND MIL ILLUM- INATION
Vehicle Speed Sensor - Low Input	P0502	Analog	0 RPM to 8000 RPM This DTC detects a low Vehicle Speed when the vehicle has a large input speed in a drive gear range.	Output Speed < 200 RPM	Gear Range is not Park/Neutral No PSA DTC set No TP sensor DTC's set Throttle Position> 15% No Map Sensor DTC's set No Engine Torque Malfunction 0KPA>VAC<106KPA 80ftlbs <engine 5.7l="375" 7.4l="500" ft.="" input="" lbs.="" speed="" torque<=""> 2500 RPM</engine>	3 seconds  Continuous	AC Voltage generating Vehicle Speed Sensor	DTC Type A
Trans Fluid Temp Sensor Circuit - Low input	P0712	Analog	.24V to 5.0V The DTC detects a continuous short to ground in the TTS signal circuit or the TTS sensor	Raw TTS < .2000 volts	Ignition "on"	10 seconds Continuous	Thermister	DTC Type B
Trans Fluid Temp. Sensor Circuit - High Input	P0713	Analog	.24V to 5.0V The DTC detects a continuous open or short to high in the TTS signal circuit or the TTS sensor	Raw TTS > 4.94140625 Volts	Ignition "on"	400 seconds Continuous	Thermister	DTC Type B

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Input Speed	P0716	Analog	0 RPM TO 8000 RPM	Tutput Speed	Gear Range is not Park/Neutral	3 seconds	AC Voltage	
Sensor - Intermittent		71111105	The DTC detects an unrealistically large change in Input Speed	loss > 1300 RPM	No ISS DTC's set No TPS DTC's set No VSS DTC set	Continuous	generating Input Speed Sensor	DTC Type B
					No SSA Sol. DTC's set Engine Running and not in fuel cut-off			
					TP Sensor > 18% Vehicle Speed > 20 MPH			
Input Speed Sensor - Low Input	P0717	Analog	0 RPM TO 8000 RPM The DTC detects a Low Input Speed when the vehicle has large Vehicle and Engine Speeds	Input Speed < 50 RPM	Gear Range is not Park/Neutral No VSS DTC set No PSA Sensor DTC's set Engine Speed > 450 rpm for 5 seconds VSS > 20 MPH	4 seconds Continuous	AC Voltage generating Input Speed Sensor	DTC Type B
Brake Switch Circuit Low	P0719	Digital	.0V to12.0V This DTC detects an open brake switch during accelerations.	Accel counts > 7 and brake is on for 900 sec without going off for 4 seconds.	No VSS DTC's Brake Switch Off is not passed. Increment Accel counter when Brake Switch is On and Vehicle Speed <5 MPH then 5 MPH <vehicle 20="" 3.5="" for="" mph="" sec.,="" speed="" speed<="" then="" vehicle=""> 20 MPH for 6 sec</vehicle>	7 test failures within 7 test samples	Switch	DTC Type A

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TCC System Stuck Off	P0741	Software	This DTC detects high torque converter slip when the TCC is commanded on.	TCC Slip is > 65 rpm	Gear Ratio = 2nd or 3rd Gear Range is D4, D3 or D2 No PSA DTC set No TP sensor DTC's set No VSS DTC set No ISS DTC's set No TCC PWM Sol. DTC's set Engine Speed > 450 rpm for 5 seconds	4 seconds 2nd Occurance Continuous	IX Engine Speed Signal and the Input Speed Sensor	DTC Type A
					-10 C < TFT < +150.5 degrees C 10% < TP sensor < 80% TCC is commanded off > .1 seconds (between counts)			
TCC System Stuck ON	P0742	Software	This DTC detects low torque converter slip when the TCC is commanded off.	TCC Slip is between -15 rpm and +20 rpm.	Commanded Gear is not 1st PSA Range is D4 No ISS DTC's set No VSS DTC set No PSA DTC set No TP sensor DTC's set No TCC Stuck Off DTC set No TCC PWM Sol. DTC set No Engine Torque Malfunction	3.25 seconds 3rd Occurance	IX Engine Speed Signal and the Input Speed Sensor	DTC Type B
			·		Engine Speed > 450 rpm for 5 seconds and no in fuel cutoff 75 ft. lbs. < Eng Torque < 5.7L = 265 ft. lbs. 7.4L = 355 ft. lbs. TP sensor > 10 %	Continuous		

SENSED PARAMETER	CODE SI	SENSOR SIGNAL TYPE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	MONITORING METHOD	FAULT CODE STORAGE AND MIL ILLUM- INATION	
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Shift Solenoid A Performance	P0751	Analog	This DTC detects 2-2-3-3 or a 1-1-4-4 shift pattern	Stuck OFF Commanded Gear = First with measured Ratio = Second > 2.0 sec. AND Commanded Gear = Fourth with TCC Locked and measured Ratio = Third > 3 seconds.  Stuck ON Commanded Gear = Second and measured Ratio = First > 3.0 seconds.	No PSA sensor DTC's set No TP DTC's set No VSS DTC set Not in Four Wheel Drive Low No Four Wheel Drive DTC No Shift Solenoid Electrical DTC's No ISS DTC's No TCC PWM DTC set No Engine Torque Malfunction No MAP DTC's set Engine Speed > 450 rpm for 5 sec and not in fuel cutoff 1st gear = 2.63 <ratio<2.38 2nd="" 3rd="" 4th="" gear="0.80&lt;Ratio&lt;0.70" speed="" vehicle=""> 2.5 MPH TPS &gt; 12% Trans Fluid Temp &gt; 20.25 deg. C 70 ft.lbs &lt; Engine Torque &lt; 5.7L = 350 ft. lbs. 7.4L = 500 ft. lbs.</ratio<2.38>	Stuck OFF  2nd occurrence  Stuck ON  5th occurrence  Continuous	Shift Solenoid	DTC Type
Shift Solenoid A Electrical	P0753	Analog	OV to 12V This DTC detects a continuous open, short to ground, or short to battery voltage in the SSA circuit or the SSA sensor	Fail Counter > 43 Counts out of 50 Total Counts. (1 count = 100ms)	Engine speed > 450 rpm > 5 seconds.	Continuous	Shift Solenoid	DTC Type A

SENSED PARAMETER	FAULT CODE	SENSOR SIGNAL TYPE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	MONITORING METHOD	FAULT CODE STORAGE AND MIL ILLUM- INATION
Shift Solenoid B Performance	P0756	Software	This DTC detects 4-3-3-4 or a 1-2-2-1 shift pattern	Stuck ON Commanded Gear = First and measured Ratio = 3rd > 2 seconds. AND Commanded Gear = Second with measured Ratio = Third > 2 seconds. Stuck OFF Commanded Gear = Third with measured Ratio = Second > 4 seconds.	No PSA sensor DTC's set No TP DTC's set No VSS DTC set Not in Four Wheel Drive Low No Four Wheel Drive DTC No Shift Solenoid Electrical DTC's No ISS DTC's No Engine Torque Malfunction No MAP DTC's set Engine Speed > 450 rpm for 5 sec and not in fuel cutoff Vehicle Speed > 4 MPH TPS > 12% Trans Fluid Temp > 20.25 deg. C 80 ft.lbs < Engine Torque < 5.71. = 350 ft. lbs. 7.41. = 500 ft. lbs. 1st gear = 2.63 <ratio<2.38 2nd="" 3rd="" 4th="" gear="0.80&lt;Ratio&lt;0.70&lt;/td"><td>Stuck On: 2 Occurrences Stuck Off: 4 Occurrences Continuous</td><td>Shift Solenoid</td><td>DTC Type</td></ratio<2.38>	Stuck On: 2 Occurrences Stuck Off: 4 Occurrences Continuous	Shift Solenoid	DTC Type
Shift Solenoid B Electrical	P0758	Analog .	OV to 12V This DTC detects a continuous open, short to ground, or short to battery voltage in the SSB circuit or the SSB sensor	Fail Counter > 43 Counts out of 50 Total Counts. (1 count = 100ms)	Engine speed > 450 rpm > 5 seconds	Continuous	Shift Solenoid	DTC Type A

SENSED PARAMETER	FAULT CODE	SENSOR SIGNAL TYPE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	MONITORING METHOD	FAULT CODE STORAGE AND MIL ILLUM- INATION
PSA Circuit Malfunction	P1810	Digital	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 Fail Case 2 Gear range is D2 after engine startup Fail Case 3 (A) Gear range is P/N with drive ratio > 1.58. OR (B) Gear range is Reverse Ratio not between 1.96 and 2.16 OR (C) Gear range is Drive with Ratio between 1.96 and 2.16	Fail Case 1 Enging Running > 450 RPM > 5 sec. 10.0 < System Voltage < 19.0 Fail Case 2 10.0 < System Voltage < 19.0 No VSS DTC Engine Speed < 240 rpm for > .3 sec then Engine Speed > 240rpm and < 800 rpm for > .1 sec then Engine Speed > 800 rpm Vehicle Speed < 2 mph Fail Case 3 No TP DTC's set No VSS DTC set No VSS DTC set No SS DTC set No Shift Solenoid Electrical or Performance DTC's Engine Speed > 450 rpm for 5 sec and < and not in fuel cutoff Vehicle > 5 MPH TPS > 9% Engine Torque > 80 ft. lbs	Fail Case 1 5 seconds Fail Case 2 8 Seconds Fail Case 3 3A > 15 sec. 3B > 7 sec. 3C > 5 sec.	Pressure Switch Assembly	DTC Type
TCC PWM Solenoid Electrical	P1860	Analog	OV to 12V This DTC detects a continuous open, short to ground, or short to battery in the TCC PWM circuit or the TCC PWM sensor	Fail Counter > 43 Counts out of 50 Total Counts (1 count = 100 ms)	Engine speed > 450 rpm > 5 seconds Gear = 1st	Continuous	TCC PWM Solenoid	DTC Type A

SENSED PARAMETER	FAULT CODE	SENSOR SIGNAL TYPE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	MONITORING METHOD	FAULT CODE STORAGE AND MIL ILLUM- INATION
Transmission Component Slipping	P1870	Software	This DTC detects excessive TCC slip when the torque converter clutch should be engaged.	If TCC slip is above 170 rpm for 10 sec, then increment the Trans Slip Counter by one. When the counter is greater than 3, set the code.	No TP DTC's set No PSA DTC's set No VSS DTC set No TCC PWM Sol. DTC set No SSA Sol. DTC's set No SSB Sol. DTC's set Shift Solenoid Perf Counters equal zero No TCC Stuck On or Off DTC's No MAP DTC's set Gear Range is D4 Commanded Gear is 4th Engine Speed > 450 rpm for 5 sec. and not in fuel cutoff 12% < TPS < 45% -10C < TTS < +130C 80 ft. lbs < Engine Torque < 5.7L = 265 ft. lbs. 7.4L = 355 ft. lbs. TCC Commanded On > 1.0 sec. AND TCC at max. duty cycle > 1.0 sec	10 seconds  3rd Occurance  Continuous	IX Engine Speed Signal and the Input Speed Sensor	DTC Type

SENSED PARAMETER	FAULT CODE	SENSOR SIGNAL TYPE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	MONITORING METHOD	FAULT CODE STORAGE AND MIL ILLUM- INATION
Four Wheel	P1875	Digital	0V to 12V	Stuck On	Gear Range is D4	Stuck On	Four wheel	
Drive Low			This DTC detects a	Any one gear	No TPS DTC's set	2.0 seconds	drive input to	DTC Type
Circuit			continuous open or short	state.	No PSA DTC's set	4th	the PCM	A
Performance		*.	to ground in the Four	0.95<(Input	No VSS DTC set	оссиггенсе		ļ
			Wheel Drive Circuit	Speed Divided	No ISS DTC's set	in any one		
		ļ		by Transfer	No TCC PWM Sol. DTC set	gear		
			*	Case Output	No SSA Sol. DTC's set			
				Spd)< 1.05	No SSB Sol. DTC's setEngine	Stuck Off		
				·	Shift Solenoid Performance	3.0 seconds		
				Stuck Off	Counters are zero	lst		
				Two different	Speed > 450 rpm for 5 seconds	occurrence		
				comanded	and not in fuel cutoff	in 2		
				gears with	9% < TPS < 99.997%	different		
				2.65 < (Input	20.25C <tts<125c< td=""><td>gears</td><td></td><td></td></tts<125c<>	gears		
				Speed Divided	Vehicle Speed > 4 MPH	-		
		1		by Transfer	•			
		1		Case Output				
				Spd)< 2.75				