4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Vehicle Speed Sensor - Low input	P0502	Analog	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 25 to 60 KPA - Throttle Position 20 to 50% - Engine Speed 3200 to 4775 RPM	3 seconds Continuous	Output Speed > 250 rpm	DTC Type B
Vehicle Speed Sensor - Intermittent	P0503	Analog	0 RPM to 6000 RPM This DTC detects an unrealistic large drop in vehicle speed.	In P/N: Output Speed drop > 8192 RPM Not P/N: Output Speed drop >1300 RPM	- Time since last Gear Range Change > 6 Seconds - Engine Speed >450 rpm - No Output Speed rise > 600 rpm within 2 seconds - No PSA DTC set - Time since 4WDL State Change > 6 seconds	In park or neutral 409 seconds Not in park or neutral 3 seconds	Output Speed drop < 500 rpm for 2 sec and output speed is > 500 rpm	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Trans Fluid Temp Sensor Circuit - Performance Test	P0711	Analog	.24V to 5.0V The DTC detects an unrealistically large change in transmission temperature or a value which remains constant for a period of time in which a measurable amount of change is expected.	1) Failure 1 is true for ≥ 409 seconds 2) Failure 2 happens ≥ 14 times in 7 sec.	- System Voltage: 10 and 18 volts - No VSS DTC's - Raw TTS counts: 10 to 251 - No DTC 1870 - Trans Temp at startup: -40 C to 21 C - Engine Running ≥ 409 sec Vehicle Speed ≥ 5 mph for ≥ 409 sec. cumulative this ignition cycle Torque Converter Slip ≥ 120 rpm for ≥ 409 sec. cumulative this ignition cycle Coolant Temp ≥ 70 C and has changed by ≥ 50 C since startup. 1) Trans Temp has not changed ≥ 2.25 C (absolute value) since startup 2) Trans Temp changes ≥ 20 C (absolute value) in 200 msec.	1) 409 seconds 2) 7 seconds continuous	1) Trans Temp has changed ≥ 3.0 C since startup during an 11.0 sec sample. 2) Trans Temp does not change ≥ 20 C in 200 msec.	DTC Type C
Trans Fluid Temp Sensor Circuit - Low input (high temp)	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 count < 10	- System Voltage: 10 to 18 volts - Ignition "on"	10 seconds Continuous	Raw TTS counts > 10	DTC Type C
Trans Fluid Temp. Sensor Circuit - High Input (Low temp)	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 counts > 250	- System Voltage: 10 to 18 volts - Ignition "on"	400 seconds Continuous	Raw TTS counts < 250	DTC Type C

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
TCC Enable Solenoid Electrical	P0740	Analog	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	- System Voltage: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	Pass Counter has incremented in each solenoid state and is >43 Counts out of 50 Total Counts	DTC Type B
TCC System Stuck OFF	P0741	Software	This DTC detects high torque converter slip when the TCC is commanded on.	TCC slip > 130 rpm for 20 seconds	- Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff - Gear Range is D2 or D3 or D4 - No PSA DTC's set - No TPS High or Low DTC's - No VSS DTC's - No TCC solenoid electrical DTC's - No TCC Performance P0742 TCC Stuck ON DTC set - No range change in last 6 sec - TPS: 20% to 99% - Trans temp.: 20 C to 150 C - Gear ratio: 0.89 to 1.02 - TCC commanded on for 5 sec - TCC duty cycle >= 40%	TCC must be commanded off for at least 0.1 seconds between on cycles	TCC slip < 50 rpm for 5 seconds	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
TCC System Stuck ON	P0742	Software	This DTC detects low torque converter slip when the TCC is commanded off.	TCC Slip: -20 to +20 RPM Fail Counter >= 2	- Engine Speed > 450 rpm for 6 seconds and not in fuel cutoff - No Range change within 5 sec 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 - No Engine Torque Defualt - Eng Torque: 50 to 400 ft-lbs - Vacuum: 0 to 105 kPa - Commanded Gear is not 1st - Gear Range is D4 - Trans temp.: 20 C to 130 C - 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	TCC Slip: 100 to 2000 RPM	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Shift Solenoid A Performance	P0751	Analog	This DTC detects abnormal shift pattern Stuck OFF: 2-2-3-3 pattern	Fail Counter >= 2 The fail counter is incremented when the following fail cases are true: Stuck OFF: 1 and 2	General -Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff -Gear range is D4 - Ignition voltage: 10 to 18 volts - Transfer case ratio in 4WD low: 0.9 to 1.2 - Transfer case ratio in 4WD high: 2.6 to 2.85 - Transmission output speed >= 150 rpm -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 -Trans Temp.: 20 C to 130 C Fail Case 1 - 1st gear commanded >= 2.0 seconds - TPS >= 10% - Engine torque: 50 to 400 ft lbs - Modeled speed ratio >= 0.35 - Gear ratio 1.2 to 1.8 Fail Case 2 - 4th gear commanded >= 1.0 second - TPS >= 10% - Engine torque: 50 to 400 ft lbs - Modeled speed ratio >= 0.85 - Gear ratio 0.95 to 1.15 - Engine torque: 50 to 400 ft lbs	Fail Case 1 0.5 seconds one time Fail Case 2 6.0 seconds one time	Pass the diagnostic when the following test cases are true: Pass Cases 1 and 2	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Shift Solenoid A Performance	P0752	Analog	This DTC detects abnormal shift pattern Stuck ON: 1-1-4-4 pattern	Fail Counter >= 2 The fail counter is incremented when the following fail cases are true: Stuck ON: 1 and 2	General -Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff -Gear range is D4 - Ignition voltage: 10 to 18 volts - Transfer case ratio in 4WD low: 0.9 to 1.2 - Transfer case ratio in 4WD high: 2.6 to 2.85 - Transmission output speed >= 150 rpm -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 -Trans Temp.: 20 C to 130 C Fail Case 1 - 2nd gear commanded >= 1.0 second - TPS >= 10% - Engine torque: 25 to 400 ft lbs - Modeled speed ratio >= 0.5 - Gear ratio 3.0 to 3.3 Fail Case 2 - 3rd gear commanded >= 1.0 second - TPS >= 10% - Engine torque: 50 to 400 ft lbs - Modeled speed ratio >= 0.5 - Gear ratio 3.0 to 3.3 Fail Case 2 - 3rd gear commanded >= 1.0 second	Fail Case 1 2.0 seconds Fail Case 2 3.0 seconds	Pass the diagnostic when the following test cases are true: Pass Cases 1 and 2	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Shift Solenoid A Electrical	P0753	Analog	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	- System Voltage: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	Pass Counter has incremented in each solenoid state and is >43 Counts out of 50 Total Counts	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Shift Solenoid B Performance	P0756	Software	This DTC detects abnormal shift pattern Stuck OFF: 4-3-3-4 pattern	Fail Counter >= 1 The fail counter is incremented when the following fail cases are true: Stuck OFF: 1 and 2	- Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff - Gear Range is D4 - Ignition voltage: 10 to 18 volts - Transfer case ratio in 4WD low: 0.9 to 1.2 - Transfer case ratio in 4WD high: 2.6 to 2.85 - Transmission output speed >= 150 rpm - No TPS DTC's - No VSS DTC's - No solenoid electrical DTC's - No TCC Stuck On DTC No PSA DTC set - Trans Temp: 20 C to 130 C Fail Case 1 - 1st gear commanded >= 2.0 sec Transmission Output >= 200 rpm - Engine Torque: 50 to 400 ft lbs - Throttle Position >= 10% - TCC Slip: -3000 to 200 rpm - Gear ratio 0 to 1.4 Fail Case 2 - 2nd gear command >= 1.0 sec - Engine Torque: 50 to 400 ft lbs - Modeled Speed Ratio >= 0.5 - Throttle Position >= 10% - Gear ratio 0.9 to 1.2	Fail Case 1 1.0 second Fail Case 2 2.0 seconds	Pass the diagnostic when pass cases 1 and 2 are true.	DTC Type A

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Shift Solenoid B Performance	P0757	Software	This DTC detects abnormal shift pattern Stuck ON: 1-2-2-1 pattern	Fail Counter >= 1 The fail counter is incremented when the following fail cases are true: Stuck ON: 1 and 2	- Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff - Gear Range is D4 - Ignition voltage: 10 to 18 volts - Transfer case ratio in 4WD low: 0.9 to 1.2 - Transfer case ratio in 4WD high: 2.6 to 2.85 - Transmission output speed >= 150 rpm - No TPS DTC's - No VSS DTC's - No solenoid electrical DTC's - No TCC Stuck On DTC No PSA DTC set - Trans Temp: 20 C to 130 C Fail Case 1 - 3rd gear commanded >= 1.0 sec Engine Torque: 50 to 400 ft lbs - modeled Speed Ratio >= 0.5 - Throttle Position >= 10% - Gear ratio 1.6 to 1.8 Fail Case 2 - 4th gear commanded >= 1.0 sec Engine Torque: 0 to 400 ft lbs - modeled Speed Ratio >= 0.5 - Throttle Position >= 10% - Gear ratio 1.8 to 3.3	Fail Case 1 2.0seconds Fail Case 2 2.0 seconds	Pass the diagnostic when pass cases 1 and 2 are true.	DTC Type A

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Shift Solenoid B Electrical	P0758	Analog	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 18volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	Pass Counter has incremented in each solenoid state and is >43 Counts out of 50 Total Counts	DTC Type A
3-2 Downshift Solenoid Electrical	P0785	Analog	0V to 12V This DTC detects a continuous open or short to ground in the D32 solenoid circuit or the D32 solenoid	Fail Counter >43 Counts out of 50 Total Counts	- System Voltage: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff	Continuous	Pass Counter has incremented in each solenoid state and is >43 Counts out of 50 Total Counts	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
PSA Circuit Malfunction	P1810	Digital	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 18 volts Fail Case 2 - System Voltage: 10 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 > 0.07 seconds, then, 3. Engine Speed > 550 rpm Fail Case 3 - Engine Speed > 450 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	Pass Case 1 Legal Trans Pressure Switch State Pass Case 2 Gear range is Park or Neutral during startup Pass Case 3 Gear range is D4 when 4th gear is commanded with the TCC ON.	DTC Type B

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4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
TCC PWM Solenoid Electrical	P1860/P 2761	Analog	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: 10 to 18 volts - Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff - Commanded Gear is 1st - TCC Duty Cycle < 10% or > 90%	Continuous	Pass Counter has incremented in each solenoid state and is >43 Counts out of 50 Total Counts	DTC Type B
Transmission Component Slipping	P894	Software	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 OR When fail case 2 is true.	- Engine Speed > 450 rpm for 5 seconds and not in fuel cutoff - Gear is not 1st - Gear Range is D4 - No PSA 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: 20% to 99% - Trans temp.: 20 C to 150C - No Engine Torque Default - 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 82 mph Fail Case 1 - TCC commanded on for > 5 sec - TCC commanded to 40% for > 5 seconds (continued on next page)	Continuous	TCC Slip: -20 to +50 rpm for > 7 sec.	DTC Type B

4T45E when used with 2.2L L61 engine in these vehicles: Chevrolet Classic

4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Transmission Component Slipping	P894	Software	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 OR When fail case 2 is true.	(continued from previous page) Fail Case 2 - Run fail case 2 immediately after fail case 1 increments the trans slip counter to either 1 or 2. Discontinue fail case 2 if the TCC is commanded OFF at any time TPS: 20% to 99% Criteria A If: 130 rpm < TCC slip < 800 rpm for 7 seconds, then: Go to max pressure freeze adapts go to criteria B Criteria B If: 130 rpm < TCC slip < 800 rpm for 7 seconds, then: Command TCC OFF for 1.5 seconds go to criteria C Criteria C If: 130 rpm < TCC slip < 800 rpm for 7 seconds, then: Seconds, then: Set code p1870	Continuous	TCC Slip: -20 to +50 rpm for > 7 sec.	DTC Type B

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4L60E when used with 4.2L LL8 engine in these vehicles: Trailblazer, Envoy, Rainer, Bravada, Ascender, Saab 9-7

TRANSMISSION DIAGNOSTIC PARAMETERS

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	PRIMARY PASS DETECTION PARAMETERS	MIL ILLUM. TYPE
Four Wheel Drive Low Circuit Performance	P1875/P 2771 NOT APPLIC ABLE	Digital	0V 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 > 450 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 TCC DTC's set - Set - No TCC DTC's set - No TCC DTC's set - 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 Slip: 100 to 3000 rpm	Stuck ON: 5 Seconds 1 Occurrence Stuck OFF: 10 Seconds 1 Occurrence Continuous	Code passes if either the stuck off or stuck on cases pass Stuck On Engine Spd Divided by Transfer Case Output Spd Ratio: 2.5 to 2.9 Stuck Off Engine Spd Divided by Transfer Case Output Spd Ratio: 8 to 1.2	DTC Type B