

2000 2.2L (LN2) J-car (Cavalier/Sunfire) w/3-speed Auto Trans 3T40 TRANSMISSION DIAGNOSTIC PARAMETERS

2000trans1.doc

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 Sensor signal is less than 2 mph.	Gear Range is not Park/Neutral No TP high or low sensor DTC's set Throttle Position > 12% No Map Sensor High or Low DTC's set MAP > 50 KPA Engine speed between 2000 & 4800 rpm	2 seconds CONTINUOUS CHECK	DTC TYPE B
Vehicle Speed Sensor - Intermittent	P0503	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 Sensor signal drop is greater than 1200 rpm for 4 seconds in all Drive gear selector ranges.	No PRNDL range changes for 6 sec. Max positive loop to loop change less than 500 rpm. Time delay if max loop to loop is exceeded = 5 sec Output Speed greater than 600 rpm	4 seconds CONTINUOUS CHECK	DTC TYPE B
TCC System Stuck ON	P0742	This DTC detects low torque converter slip when the TCC is commanded off.	TCC Stuck on counter greater than or equal to 2 counts. The counter is incremented once each time the enable conditions are met.	Vehicle Speed between 35 mph and 82 mph Engine Speed between 1500 rpm and 4000 rpm Speed Ratio between 0.90 and 1.375 TPS between 8% and 60 % TCC is commanded off. No TPS sensor high or low DTC No Vehicle Speed Sensor DTC -20 <Slip Speed< 20	8 seconds CONTINUOUS CHECK	DTC TYPE B
Transmission Component Slipping	P1870	This DTC detects excessive TCC slip when the torque converter clutch should be engaged.	Trans Slip Counter is greater than or equal to 2 counts. The counter is incremented once each time the enabling conditions are met.	No TPS sensor high or low DTCs set TPS between 10% and 50% No VSS DTCs TCC commanded on for 6 seconds. Engine Speed between 1500 rpm and 4000 rpm Speed Ratio between 0.95 and 1.34 Vehicle Speed between 35 mph and 82 mph. TCC Slip > 140 rpm .	5 seconds CONTINUOUS CHECK	DTC TYPE B