

**2002 4T40-E** when used with these engines: 2.2L (OHV) LN2, 2.2L (DOHC) L61, 2.4L LD9  
in these cars: Saturn L-series, Cavalier, Sunfire, GrandAm, Alero

**TRANSMISSION DIAGNOSTIC MATRIX**

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| SENSED PARAMETER                   | FAULT CODE | ACCEPTABLE OPERATING RANGE AND RATIONALITY                                       | PRIMARY MALF DETECTION PARAMETERS                  | SECONDARY PARAMETERS AND CONDITIONS   | MONITORING TIME LENGTH & DTC TYPE         |
|------------------------------------|------------|--|--|---|---|
| Vehicle Speed Sensor: Low Input    | P0502      | 0 - 8000 RPM<br>Detects low vehicle speed with large engine speed in Drive range | Output Speed < 150 RPM                             | Range ≠ Park/Neutral<br>No P0716, P0717, P1810 DTCs<br>No MAP, TPS DTCs (see below)<br>50 < Engine Torque < 300 ft-lb<br>Input Speed > 1500 RPM<br>0 < MAP < 104.7 kPa<br>TPS > 12% | 3.0 sec<br><br>Type B                     |
| Vehicle Speed Sensor: Intermittent | P0503      | 0 - 8000 RPM<br>Detects loss of vehicle speed when vehicle is moving             | Drop in Output Speed > 1200 RPM in any Drive range | Engine Running<br>No P1810 DTC<br><br>Time since last range change > 6.0 sec<br>+ΔVSS, loop-to-loop, < 250 RPM for > 5.0 sec  | 3.0 sec in all Drive ranges<br><br>Type B |

MAF DTCs P0101-P0102-P0103  
MAP DTCs P0105-P0106-P0107-P0108  
MAP Intermittent P1106-P1107  
ECT DTCs P0115-P0116-P0117-P0118-P0125-P0126-P0128  
TP DTCs P0120-P0121-P0122-P0123-P0220-P0221-P0222-P0223-P0225-P0226-P0227-P0228-P1120-P1121-P1122-P1125  
  
P1280-P1281-P1282-P1283-P1285-P1286-P1287-P1288  
  
System Voltage DTCs P0560-P0562-P0563

Type A and Type B codes illuminate the "Service Engine Soon" lamp.  
Type C codes illuminate the "Service Vehicle Soon" or "Wrench" lamp.

FA = Fault Active  
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|---|------------|---|--|---|--|
| Transmission Fluid Temperature Sensor Circuit: Range/ Performance | P0711      | 0.24 - 5.0 V<br>Detects unrealistically large change in TFT or value which remains constant for period of time in which a measurable change is expected | <u>Fail Case 1</u><br>$\Delta TFT < 2.25^\circ C.$<br><br><u>Fail Case 2</u><br>$\Delta TFT > 20^\circ C.$ in 200 msec | Engine Speed > 500 RPM > 300.0 sec<br>8 < Ignition Voltage < 18 V<br>No P0502, P0503, P0716, P0717 DTCs<br>Vehicle Speed > 5 mph for 900.0 sec cumulative<br>-40° C. < Trans Temp at startup < 21° C.<br>TCC Slip > 120 RPM > 409.0 sec cumulative<br>ECT > 70° C.<br>$\Delta ECT > 50^\circ C.$ since start-up | <u>Fail Case 1</u><br>80.0 sec<br><br><u>Fail Case 2</u><br>Fail count > 14 within 7.0 sec<br><br>Type C |
| Transmission Fluid Temperature Sensor Circuit: Low Input          | P0712      | 0.24 - 5.0 V<br>Detects continuous Short-to-Ground in Transmission Fluid Temperature sensor or TFT signal circuit                                       | Trans Temp Sensor $\leq$ 10 counts<br>(Raw TTS $\leq$ 0.33 Volts)  | No P0712 FA or FATKO<br>No P0713 FA<br>Ignition ON<br>8 < Ignition Voltage < 18 V   | 10.0 sec<br><br>Type C   |

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MAP Intermittent P1106-P1107  
ECT DTCs P0115-P0116-P0117-P0118-P0125-P0126-P0128  
TP DTCs P0120-P0121-P0122-P0123-P0220-P0221-P0222-P0223-P0225-P0226-P0227-P0228-P1120-P1121-P1122-P1125  
  
P1280-P1281-P1282-P1283-P1285-P1286-P1287-P1288  
  
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|---|------------|---|--|--|-----------------------------------|
| Transmission Fluid Temperature Sensor Circuit: High Input | P0713      | 0.24 - 5.0 V<br>Detects continuous Open or Short-to-Power in TFT sensor or TFT signal circuit | Trans Temp Sensor ≥ 251 counts<br><br>(Raw TTS ≥ 4.92 Volts) | No P0712 FA<br>No P0713 FA or FATKO<br>Ignition ON<br>8 < Ignition Voltage < 18 V  | 400.0 sec<br><br>Type C           |
| Input Speed Sensor Circuit: Range/Performance             | P0716      | 0 - 6000 RPM<br>Detects unrealistically large change in Input Speed in very short time        | Input Speed change > 1300 RPM                                | Engine Running<br>No TPS DTCs (see below)<br>No P0502, P0503, P0716, P0717, P0751, P0753, P0758 DTCs<br>TPS > 15%<br>Vehicle Speed > 5 mph | 0.8 sec<br><br>Type B             |
| Input Speed Sensor Circuit: No Signal                     | P0717      | 0 - 6000 RPM<br>Detects low Input Speed with large vehicle speed                              | Input Speed < 100 RPM  | No P0502, P0503, P1810 DTCs<br>PSA ≠ P/N<br>Engine Running<br>Vehicle Speed > 5 mph  | 5.0 sec<br><br>Type B             |

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|--|------------|--|--|--|-----------------------------------|
| Torque Converter Clutch System Stuck OFF | P0741      | Detects high TCC slip with TCC commanded on  | TCC slip > 200 RPM increments Stuck OFF counter<br><br>Count = 1               | No TPS DTCs (see below)<br>No P0502, P0503, P0742, P1810, P1887 DTCs<br>8% ≤ TPS ≤ 100%<br>20° C. < Trans Temp < 130° C.<br>TCC commanded locked on > 3.0 sec<br><br>Commanded Gear > 2<br>PRNDL = D4, D3, or D2<br>Time since last manual range change > 6.0 sec                  | 6.0 sec<br><br>Type B             |
| Torque Converter Clutch System Stuck ON  | P0742      | Detects lack of Torque Converter Clutch release oil pressure (switch is CLOSED) when TCC commanded off | TCC Release Switch closed for 4.0 sec increments fail counter<br><br>Count = 4 | No P1887 DTC<br>No TPS DTCs (see below)<br>Range = D4<br>500 < Engine Speed < 6500 RPM<br>TCC commanded OFF<br>20 < Engine Torque < 300 ft-lb<br>20° C. < Trans Temp < 130° C.<br>20 < Vehicle speed < 60 mph<br>12% ≤ TPS ≤ 100%<br>Time since last manual range change > 6.0 sec | 6.0 sec<br><br>Type A             |

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ECT DTCs P0115-P0116-P0117-P0118-P0125-P0126-P0128  
TP DTCs P0120-P0121-P0122-P0123-P0220-P0221-P0222-P0223-P0225-P0226-P0227-P0228-P1120-P1121-P1122-P1125  
  
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|---|------------|--|--|--|---|
| Shift Solenoid A Performance<br><br>Stuck OFF | P0751      | Detects 2-2-3-3 shift pattern              | <u>Fail Case 1</u><br>Commanded 1st<br>1.54 < Ratio < 1.71<br><br><u>Fail Case 2</u><br>Commanded 4th<br>0.91 < Ratio < 1.07<br><br>Count = 2  | No TPS DTCs (see below)<br>No P0502, P0503, P0716, P0717,<br>P0753, P0758, P1810 DTCs<br>PRNDL ≠ Park, Reverse, or Neutral<br>TPS > 8%<br>VSS > 150 RPM<br>20° C. < Trans Temp < 130° C.<br>Engine running<br>0.30 sec. after gear change<br>8 < Ignition Voltage < 18 V<br>150 < Input Speed < 6000 RPM<br>20 < Engine Torque < 300 ft-lb | <u>Fail Case 1</u><br>3.25 sec<br><br><u>Fail Case 2</u><br>4.0 sec<br><br>Type B |
| Shift Solenoid A Performance<br><br>Stuck ON  | P0752      | Detects 1-1-4-4 shift pattern              | <u>Fail Case 3</u><br>0 < Engine Torque < 300 ft-lbs<br>Commanded 2nd<br>2.87 < Ratio < 3.13<br><br><u>Fail Case 4</u><br>20 < Engine Torque < 300 ft-lbs<br>Commanded 3rd<br>0.61 < Ratio < 0.72<br><br>Count = 2 | No TPS DTCs (see below)<br>No P0502, P0503, P0716, P0717,<br>P0753, P0758, P1810 DTCs<br>PRNDL ≠ Park, Reverse, or Neutral<br>TPS > 8%<br>VSS > 150 RPM<br>20° C. < Trans Temp < 130° C.<br>Engine running<br>0.30 sec. after gear change<br>8 < Ignition Voltage < 18 V<br>150 < Input speed < 6000 RPM                                   | <u>Fail Case 3</u><br>4.0 sec<br><br><u>Fail Case 4</u><br>4.0 sec<br><br>Type B  |

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ECT DTCs P0115-P0116-P0117-P0118-P0125-P0126-P0128  
TP DTCs P0120-P0121-P0122-P0123-P0220-P0221-P0222-P0223-P0225-P0226-P0227-P0228-P1120-P1121-P1122-P1125  
  
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System Voltage DTCs P0560-P0562-P0563

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|--|------------|--|--|---|--|
| Shift Solenoid A Electrical                  | P0753      | 0 – 12 V<br>Detects continuous Open, Short-to-Ground, or Short-to-Power in Shift Solenoid A or SSA circuit (ODM) | SSA ODM feedback circuit state ≠ PCM commanded state   | Ignition ON<br>8 < Ignition Voltage < 18 V for 0.5 sec  | Fail count = 43 in sample of 50 (Total time approx 4.0 sec)<br><br>Type A        |
| Shift Solenoid B Performance<br><br>Stuck ON | P0756      | Detects 4-3-3-4 shift pattern  | <u>Fail Case 5</u><br>200 < TCC Slip < 1850 RPM<br>VSS > 160 RPM<br>Commanded 1st<br>0.61 < Ratio < 0.72<br><br><u>Fail Case 6</u><br>Commanded Gear = 2<br>0.91 < Ratio < 1.07<br><br>Count = 1 | No TPS DTCs (see below)<br>No P0502, P0503, P0716, P0717, P0753, P0758, P1810 DTCs<br>No Engine Torque Codes<br>Engine Running<br>Vehicle Speed > 150 RPM<br>150 < Input Speed < 6000 RPM<br>TPS > 8%<br>Range = D4, D3, D2 or D1<br>0.30 sec. after gear change<br>8 < Ignition Voltage < 18 V<br>20° C. < Trans Temp < 130° C.<br>20 < Engine Torque < 300 ft-lbs | <u>Fail Case 5</u><br>4.0 sec<br><br><u>Fail Case 6</u><br>4.0 sec<br><br>Type A |

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TP DTCs P0120-P0121-P0122-P0123-P0220-P0221-P0222-P0223-P0225-P0226-P0227-P0228-P1120-P1121-P1122-P1125  
  
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|--|------------|--|--|---|--|
| Shift Solenoid B Performance<br><br>Stuck OFF              | P0757      | Detects 1-2-2-1 shift pattern  | <u>Fail Case 7</u><br>20 < Engine Torque < 300 ft-lb<br>Commanded 3rd<br>1.54 < Ratio < 1.71<br><br><u>Fail Case 8</u><br>0 < Engine Torque < 300 ft-lb<br>Commanded 4th<br>2.87 < Ratio < 3.13<br><br>Count = 1 | No TPS DTCs (see below)<br>No P0502, P0503, P0716, P0717, P0753, P0758, P1810 DTCs<br>No Engine Torque Codes<br>Engine Speed < 6500 rpm<br>150 < Input Speed < 6000 RPM<br>Vehicle Speed > 150 RPM<br>TPS > 8%<br>Gear Range = D4, D3, D2, or D1<br>0.20 sec. after gear change<br>8 < Ignition Voltage < 18 V<br>20° C. < Trans Temp < 130° C. | <u>Fail Case 7</u><br>3.0 sec<br><br><u>Fail Case 8</u><br>2.0 sec<br><br>Type A |
| Shift Solenoid B Electrical                                | P0758      | 0 – 12 V<br>Detects continuous Open, Short-to-Ground, or Short-to-Power in Shift Solenoid B or SSB circuit (ODM) | SSB ODM feedback circuit state ≠ PCM commanded state   | Ignition ON<br>8 < Ignition Voltage < 18 V for 0.5 sec  | Fail count = 43 in sample of 50 (Total time approx 4 sec)<br><br>Type A          |
| Pressure Switch Assembly Circuit Malfunction (Fail Case 1) | P1810      | 0 – 12 V<br>Detects invalid state of Pressure Switch Assembly or PSA circuit                                     | Illegal PSA range  | Engine running  | 60.0 sec<br><br>Type B   |

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| Pressure Switch Assembly Circuit Malfunction<br><b>(Fail Case 2)</b><br>Engine Speed Transition | P1810      | 0 – 12 V<br>Detects invalid state of Pressure Switch Assembly or PSA circuit | PSA = D2, D4, or Reverse after Start-up   | <b>Run once per ignition cycle</b><br>8 < Ignition Voltage < 18 V for 0.5 sec<br>No Vehicle Speed Codes<br>Vehicle Speed < 2 mph<br>Engine Speed < 200 RPM for 0.1 sec, <b>THEN</b> 200 < Engine Speed < 600 RPM for 0.025 sec; <b>after</b> Engine Speed > 600 RPM, PSA state is reported | 2.0 sec<br><br>Only at Engine Start-up<br><br>Type B  |
| Pressure Switch Assembly Circuit Malfunction<br><b>(Fail Case 3)</b>                            | P1810      | 0 – 12 V<br>Detects invalid state of Pressure Switch Assembly or PSA circuit | <u>Fail Case A</u><br>PSA = P/N<br>Ratio < 0.71<br><br><u>Fail Case B</u><br>PSA = Reverse<br>Ratio = Drive<br><br><u>Fail Case C</u><br>PSA = D4, D3, D2, or D1<br>Ratio = Reverse | Engine Running<br>No TPS DTCs (see below)<br>No P0502, P0503, P0716, P0717, P0751, P0753, P0756, P0758 DTCs<br>Vehicle Speed ≥ 5mph<br>10% < TPS < 25%<br>10 < Engine Torque < 300 ft-lbs  | <u>Fail Case A</u><br>5.0 sec<br><br><u>Fail Case B</u><br>5.0 sec<br><br><u>Fail Case C</u><br>5.0 sec<br><br>Continuous<br><br>Type B |

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| Torque Converter Clutch Pulse Width Modulated Solenoid Electrical | P1860      | Detects continuous Open or Short-to-Ground in TCC PWM circuit or TCC PWM solenoid                | Every 100 msec, circuit is checked, FAIL counter incremented if open or short detected | 8 < Ignition Voltage < 18 V > 0.5 sec<br>Ignition On<br>Engine Speed > 500 RPM for 5.0 sec, not at fuel cutoff<br>TCC Duty Cycle < 10% or > 90%<br>10% < TPS < 90%           | Fail Count = 43 in sample of 50 (Total time approx 4.0 sec)<br><br>Continuous<br><br>Type A |
| Torque Converter Clutch Release Switch Circuit Malfunction        | P1887      | Detects open Release Switch, indicating TCC not applied when PCM and TCC slip show TCC is locked | Release switch open for 6 sec<br><br>Count = 2   | No P0716, P0717, P0741, P0742 DTCs<br>Engine running<br>TCC commanded ON<br>-20 < Slip < 60 RPM<br>PSA = D4<br>30 < Engine Torque < 300 ft-lb<br>15 < TCC Pressure < 120 psi | 6.0 sec<br><br>Type B   |

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