

1995 4.3L (L35) S/T Truck 4L60-E TRANSMISSION DIAGNOSTIC PARAMETERS

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| SENSED PARAMETER                              | FAULT CODE | SENSOR SIGNAL TYPE | ACCEPTABLE OPERATING RANGE AND RATIONALITY   | PRIMARY MALF DETECTION PARAMETERS  | SECONDARY MONITORING PARAMETERS AND CONDITIONS   | MONITORING TIME LENGTH AND FREQUENCY OF CHECK | MONITORING METHOD                                   | FAULT CODE STORAGE AND MIL ILLUMINATION |
|---|------------|--------------------|--|--|--|---|---|---|
| Vehicle Speed Sensor - Low Input              | P0502      | Analog             | 0 RPM to 6000 RPM<br>This DTC detects a low vehicle speed when the vehicle has a large engine speed in a drive gear range. | Output Speed < 250 RPM   | Gear Range is not Park/Neutral<br>No PSA sensor DTC's set<br>No TP high or low sensor DTC's set<br>Throttle Position > 10% and < 99%<br>No Map Sensor High or Low DTC's set<br>MAP > 40KPA and < 100 KPA<br>Engine Speed > 3000 RPM  | 3 seconds<br><br>Continuous                   | AC Voltage generating Vehicle Speed Sensor          | DTC Type A                              |
| Vehicle Speed Sensor - Intermittent           | P0503      | Analog             | 0 RPM to 6000 RPM<br>This DTC detects an unrealistic large change in vehicle speed.  | Output Speed < 2048 RPM<br>In Park/Neutral<br><br>or<br>Output Speed < 1000 RPM<br>not in Park/Neutral | Time since last Gear Range Change > 6.375 Sec<br>No PSA sensor DTC's set<br>Engine Running<br>Time since last 4wd Low > 0 Sec  | 2 seconds<br><br>Continuous                   | AC Voltage generating Vehicle Speed Sensor          | DTC Type A                              |
| Trans Fluid Temp Sensor Circuit - Low Input   | P0712      | Analog             | .24V to 5.0V<br>The DTC detects a continuous short to ground in the TTS signal circuit or the TTS sensor                   | Raw TTS < .33 Volts  | None   | 1 second<br><br>Continuous                    | Thermister  | DTC Type A                              |
| Trans Fluid Temp. Sensor Circuit - High Input | P0713      | Analog             | .24V to 5.0V<br>The DTC detects a continuous open or short to high in the TTS signal circuit or the TTS sensor             | Raw TTS > 4.92 Volts   | None   | 1 second<br><br>Continuous                    | Thermister  | DTC Type A                              |
| TCC System Stuck ON                           | P0742      | Software           | This DTC detects low torque converter slip when the TCC is commanded off.  | TCC Slip > -20 RPM and<br>TCC Slip < 20 RPM  | Commanded Gear is not 1st<br>Gear Range is D4, D3 or D2<br>No PSA sensor DTC's set<br>No TP high or low sensor DTC's set<br>Throttle Position > 25%<br>Engine Running<br>TCC is commanded off<br>No VSS Low or Intermittent DTC's set<br>No TCC Enable Sol. DTC's set<br>No TCC Control Sol. DTC's set | 4 seconds<br><br>Continuous                   | 1X Engine Speed Signal and the Vehicle Speed Sensor | DTC Type A                              |
| Shift Solenoid A Electrical                   | P0753      | Analog             | 0V to 12V<br>This DTC detects a continuous open or short to ground in the SSA circuit or the SSA sensor                    | Output State is invalid  | None   | 2 seconds<br><br>Continuous                   | Shift Solenoid                                      | DTC Type A                              |

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|---------------------------------|------------|--------------------|---|--|---|---|--------------------------|---|
| Shift Solenoid B Performance    | P0756      | Software           | This DTC detects 4th gear when 1st gear is commanded or 1st gear when 4th gear is commanded                                       | Gear is 1st and Speed Ratio is < 100 or Gear is 4th and Speed Ratio is > 100 | Vehicle Speed > 7 MPH<br>TPS > 25%<br>Gear Range is D4, D3, D2 or D1<br>Trans Fluid Temp > 20C<br>No TTS sensor DTC's set<br>No PSA sensor DTC's set<br>No TPS sensor High or Low DTC's set<br>No VSS Low or Intermittent DTC's set<br>Engine Running | 3 seconds<br><br>Continuous                   | Shift Solenoid           | DTC Type A                              |
| Shift Solenoid B Electrical     | P0758      | Analog             | 0V to 12V<br>This DTC detects a continuous open or short to ground in the SSB circuit or the SSB sensor                           | Output State is Invalid  | None  | 2 seconds<br><br>Continuous                   | Shift Solenoid           | DTC Type A                              |
| PSA Circuit Malfunction         | P1810      | Digital            | 0V to 12V<br>This DTC detects an invalid state of the PSA sensor or the PSA circuit by deciphering the PSA inputs.                | Illegal Range is true  | None  | 5 seconds<br><br>Continuous                   | Pressure Switch Assembly | DTC Type A                              |
| TCC Solenoid Electrical         | P1864      | Analog             | 0V to 12V<br>This DTC detects a continuous open or short to ground in the TCC circuit or the TCC sensor                           | Output State is Invalid  | None  | 2 seconds<br><br>Continuous                   | TCC Solenoid             | DTC Type A                              |
| 3-2 Control Solenoid Electrical | P1886      | Analog             | 0V to 12V<br>This DTC detects a continuous open or short to ground in the 3-2 control sol. circuit or the 3-2 control sol. sensor | Output State is Invalid  | None  | 4 seconds<br><br>Continuous                   | 3-2 Control Solenoid     | DTC Type A                              |