

Code	DRB Scan Tool Display	Brief Description of DTC
11	No Crank Reference Signal at PCM	No crank reference signal detected during engine cranking
11	Intermittent Loss of CMP or CKP, or Misfire Adaptive Numerator at Limit	Intermittent loss of either camshaft or crankshaft position sensor, or CKP sensor target windows have too much variation
12	Battery Disconnect	Direct battery input to the PCM was disconnected within the last 50 key-on cycles
13	No Change in MAP From Start to Run	No difference recognized between the engine MAP reading and the barometric (atmospheric) pressure reading from start-up
14	Too Low); or No 5 Volts To MAP Sensor	MAP sensor input above the maximum (or below the minimum) acceptable voltage; or 5 Volt output to MAP sensor open
15	No Vehicle Speed Sensor Signal	No vehicle speed sensor signal detected during road load conditions
17	Engine Is Cold Too Long	Engine did not reach operating temperature within acceptable limits
17	Closed Loop Temp Not Reached	Engine does not reach 20°F within 5 minutes with a vehicle speed signal
21	Left O2 Sensor Shorted to Voltage	Left oxygen sensor input voltage maintained above the normal operating range
21	Upstream O2 Sensor Shorted to Ground; or Upstream O2 Sensor Heater Failure; or Upstream O2 Sensor Slow Response	Upstream O2 sensor voltage too low, tested after cold start; or Upstream oxygen sensor heating element circuit malfunction; or Upstream oxygen sensor response slower than minimum required switching frequency
21	Downstream O2 Sensor Shorted to Ground; or Downstream O2 Sensor Heater Failure; or Downstream O2 Sensor Shorted to Voltage	Downstream O2 sensor voltage too low, tested after cold start; or Downstream oxygen sensor heating element circuit malfunction; or Downstream oxygen sensor input voltage maintained above the normal operating range
22	ECT Sensor Voltage Too High (or Too Low)	Engine coolant temperature sensor input above the maximum (or below the minimum) acceptable voltage
23	Intake Air Temp Sensor Voltage Too High (Too Low)	Intake air temperature sensor input above the minimum (or below the maximum) acceptable voltage
24	Throttle Position Sensor Voltage High (or Low); or TPS Voltage Does Not Agree With MAP	Throttle position sensor input above the maximum (or below the minimum) acceptable voltage; or TPS signal does not correlate to MAP sensor
25	Idle Air Control Motor Circuits; or Target Idle Not Reached	An open or shorted condition detected in one or more of the idle air control motor circuits; or Actual idle speed does not equal target idle speed
27	Injector Control Circuit	Fuel injector output driver does not respond properly to the control signal
31	EVAP Purge Solenoid Circuit; or EVAP Purge Flow Monitor Failure	An open or shorted condition detected in the duty cycle purge solenoid circuit; or Insufficient or excessive vapor flow detected during evaporative emission system operation
33	A/C Clutch Relay Circuit	An open or shorted condition detected in the A/C clutch relay circuit

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Emission Diagnosis, Tune-up and Vacuum Diagrams, 1984-87 [i.e. 86] Domestic Cars Chilton Book Company, 1987 *Meyer Distributing 2008* , *Boating* ,2005-05 **Boating** ,2005-04 [1985\nineteen Eighty-five\ *Domestic Light Trucks & Vans Tune-up, Mechanical Service & Repair* Mitchell Information Services,1985 Automotive Computers and Digital Instrumentation Robert N. Brady,1988 **Domestic Light Trucks & Vans Tune-up, Mechanical, Service & Repair, 1986** Mitchell Information Services,1986 *1993 Mitchell Domestic Light Trucks & Vans Service & Repair* Mitchell International,1993 Semiconductor Design and Implementation Issues in Integrated Vehicle Electronics John H. Hall,2005

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