



Diagnostic Trouble Code (DTC) Chart

DTC (MIL indication*1)	Detection Item	Probable Cause	Page
P0107 (3)	Manifold Absolute Pressure (MAP) Sensor Circuit Low Voltage	• Open or short in MAP sensor circuit • MAP sensor • PCM	11-71
P0108 (3)	Manifold Absolute Pressure (MAP) Sensor Circuit High Voltage	• Open in MAP sensor circuit • MAP sensor • PCM	11-72
P0112 (10)	Intake Air Temperature (IAT) Sensor Circuit Low Voltage	• Short in IAT sensor circuit • IAT sensor • PCM	11-75
P0113 (10)	Intake Air Temperature (IAT) Sensor Circuit High Voltage	• Open in IAT sensor circuit • IAT sensor • PCM	11-76
P0116 (86)*2	Engine Coolant Temperature (ECT) Sensor Range/Performance Problem	• ECT sensor • Cooling system	11-49
P0117 (6)	Engine Coolant Temperature (ECT) Sensor Circuit Low Voltage	• Short in ECT sensor circuit • ECT sensor • PCM	11-78
P0118 (6)	Engine Coolant Temperature (ECT) Sensor Circuit High Voltage	• Open in ECT sensor circuit • ECT sensor • PCM	11-79
P0122 (7)	Throttle Position (TP) Sensor Circuit Low Voltage	• Open or short in TP sensor circuit • TP sensor • PCM	11-80
P0123 (7)	Throttle Position (TP) Sensor Circuit High Voltage	• Open in TP sensor circuit • TP sensor • PCM	11-82
P0125 (86)*2	Engine Coolant Temperature (ECT) Sensor Slow Response	• ECT sensor • PCM	11-50
P0133 (62)*2	Right Primary Heated Oxygen Sensor (Right Primary H02S) Slow Response (Bank 1, Sensor 1)	• Right Primary H02S (Bank 1, Sensor 1) • Exhaust system	11-51
P0134 (2)	Right Primary Heated Oxygen Sensor (Right Primary H02S) Heater System Malfunction	• Open in Right Primary H02S (Bank 1, Sensor 1) circuit • Right Primary H02S (Bank 1, Sensor 1) • PCM	11-53
P0135 (42)	Right Primary Heated Oxygen Sensor (Right Primary H02S) Heater Circuit Malfunction (Bank 1, Sensor 1)	• Open or short in Right Primary H02S (Bank 1, Sensor 1) heater circuit • PCM	11-91
P0137 (63)*2	Secondary Heated Oxygen Sensor (Secondary H02S) Circuit Low Voltage (Sensor 2)	• Short in Secondary H02S (Sensor 2) circuit • Secondary H02S (Sensor 2) • PCM	11-88
P0138 (63)*2	Secondary Heated Oxygen Sensor (Secondary H02S) Circuit High Voltage (Sensor 2)	• Open in Secondary H02S (Sensor 2) circuit • Secondary H02S (Sensor 2) • PCM	11-89

*1: These DTCs will be indicated by the blinking of the Malfunction Indicator Lamp (MIL) with the SCS service connector connected.

*2: These DTCs require two "trips" or two driving cycles unless the SCS service connector is connected.

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Troubleshooting

Diagnostic Trouble Code (DTC) Chart (cont'd)

DTC (MIL indication)	Detection Item	Probable Cause	Page
P0139 (63)* ²	Secondary Heated Oxygen Sensor (Secondary H02S) Slow Response (Sensor 2)	Secondary H02S (Sensor 2)	11-90
P0141 (65)	Secondary Heated Oxygen Sensor (Secondary H02S) Heater Circuit Malfunction (Sensor 2)	- Open or short in Secondary H02S (Sensor 2) heater circuit - PCM	11-91
P0153 (61)* ²	Left Primary Heated Oxygen Sensor (Left Primary H02S) Slow Response (Bank 2, Sensor 1)	- Left Primary H02S (Bank 2, Sensor 1) - Exhaust system	11-51
P0154 (1)	Left Primary Heated Oxygen Sensor (Left Primary H02S) Heater System Malfunction	- Open in Left Primary H02S (Bank 2, Sensor 1) circuit - Left Primary H02S (Bank 2, Sensor 1) - PCM	11-53
P0155 (41)	Left Primary Heated Oxygen Sensor (Left Primary H02S) Heater Circuit Malfunction (Bank 2, Sensor 1)	- Open or short in Left Primary H02S (Bank 2, Sensor 1) heater circuit - PCM	11-91
P0171 (46)* ²	Fuel System Too Lean [Right Bank (Bank 1)]	- Fuel supply system - Right Primary H02S (Bank 1, Sensor 1) - MAP sensor - Contaminated fuel - Valve clearance - Exhaust leakage	11-57
P0172 (46)* ²	Fuel System Too Rich [Right Bank (Bank 1)]	- Fuel supply system - Right Primary H02S (Bank 1, Sensor 1) - MAP sensor - Contaminated fuel - Valve clearance	11-57
P0174 (45)* ²	Fuel System Too Lean [Left Bank (Bank 2)]	- Fuel supply system - Left Primary H02S (Bank 2, Sensor 1) - MAP sensor - Contaminated fuel - Exhaust leakage	11-57
P0175 (45)* ²	Fuel System Too Rich [Left Bank (Bank 2)]	- Fuel supply system - Left Primary H02S (Bank 2, Sensor 1) - MAP sensor - Contaminated fuel	11-57
P0300 71 72 73 74 75 76	Random Misfire	- Ignition system - Fuel supply system - MAP sensor - EGR system - Contaminated fuel - Lack of fuel	11-59
P0325 (53)	Right Knock Sensor (Bank 1) Circuit Malfunction	- Open or short in Right Knock Sensor (Bank 1) circuit - Right Knock Sensor (Bank 1) - PCM	11-95
P0330 (23)	Left Knock Sensor (Bank 2) Circuit Malfunction	- Open or short in Left Knock Sensor (Bank 2) circuit - Left Knock Sensor (Bank 2) - PCM	11-95

*2: These DTCs require two "trips" or two driving cycles unless the SCS service connector is connected.



DTC (MIL indication)	Detection Item	Probable Cause	Page
P0345 (4)	Crankshaft Position (CKP) 1 Sensor Circuit No Signal	• CKP 1 Sensor • CKP 1 Sensor circuit • PCM	11-64
P0349 (4)	Crankshaft Position (CKP) 1 Sensor Intermittent Interruption	• CKP 1 Sensor • Timing belt skipped teeth	11-64
P0390 (9)	Camshaft Position (CMP) (Cylinder Position (CYP)) 1 Sensor Circuit No Signal	• CMP (CYP) 1 Sensor • CMP (CYP) 1 Sensor circuit • PCM	11-64
P0394 (9)	Camshaft Position (CMP) (Cylinder Position (CYP)) 1 Sensor Intermittent Interruption	• CMP (CYP) 1 Sensor	11-64
P0401 (80)* ²	Exhaust Gas Recirculation (EGR) Insufficient Flow	• EGR valve • EGR line	11-167
P0404 (12)	Exhaust Gas Recirculation (EGR) Valve Insufficient Lift	• EGR valve (with position sensor) • EGR valve position sensor circuit • EGR valve vacuum control solenoid valve • EGR valve vacuum control solenoid valve circuit • EGR line • PCM	11-85
P0406 (12)	EGR Valve Lift Sensor High Voltage	• EGR valve (with position sensor) • EGR valve position sensor circuit • PCM	11-90
P0420 (67)* ²	Catalyst System Efficiency Below Threshold	• Three Way Catalytic converter • Secondary HO₂S	11-165
P0451 (91)	Fuel Tank Pressure (FTP) Sensor Circuit Range/Performance	• FTP Sensor • PCM	11-177
P0452 (91)	Fuel Tank Pressure (FTP) Sensor Circuit Low Voltage	• Open or short in FTP sensor circuit • FTP Sensor • PCM	11-178
P0453 (91)	Fuel Tank Pressure (FTP) Sensor Circuit High Voltage	• Open in FTP Sensor circuit • FTP Sensor • PCM	11-180
P0497 (90)* ²	Evaporative Emission (EVAP) System Low Purge Flow	• EVAP canister purge valve • EVAP canister vent shut valve	11-102
P0506 (14)* ²	Idle Control System RPM Lower Than Expected	• IAC valve • Throttle body	11-76
P0507 (14)* ²	Idle Control System RPM Higher Than Expected	• IAC valve • IAC thermal valve • Throttle body	11-78

*2: These DTCs require two "trips" or two driving cycles unless the SCS service connector is connected.

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Troubleshooting

Diagnostic Trouble Code (DTC) Chart (cont'd)

DTC (MIL indication)	Detection Item	Probable Cause	Page
P0511 (14)	Idle Air Control (IAC) Valve Circuit Failure	• IAC valve • IAC valve circuit • PCM	11-80
P0560 (34)	PCM Back-up Circuit Low Voltage	• PCM Back-up Circuit • PCM	11-101
P0607 (-)	Powertrain Control Module (PCM) Internal Circuit Failure	• PCM	11-66
P07xx P0700***	(70)* ³ Automatic Transaxle System Malfunction	—	Section 14
P1121 (7)	Throttle Position (TP) Sensor signal Lower Than Expected	• TP sensor	11-83
P1122 (7)	Throttle Position (TP) Sensor signal Higher Than Expected	• TP sensor	11-83
P1128 (5)	Manifold Absolute Pressure (MAP) Sensor signal Lower Than Expected	• MAP sensor	11-73
P1129 (5)	Manifold Absolute Pressure (MAP) Sensor signal Higher Than Expected	• MAP sensor	11-73
P1201 P1202 P1203 P1204 P1205 P1206	(71) (72) (73) (74) (75) (76) No. 1 Cylinder Misfire No. 2 Cylinder Misfire No. 3 Cylinder Misfire No. 4 Cylinder Misfire No. 5 Cylinder Misfire No. 6 Cylinder Misfire	• Injector • Injector circuit • Ignition system • Low compression	11-60
P1301 P1302 P1303 P1304 P1305 P1306	(71) (72) (73) (74) (75) (76) No. 1 Cylinder Misfire No. 2 Cylinder Misfire No. 3 Cylinder Misfire No. 4 Cylinder Misfire No. 5 Cylinder Misfire No. 6 Cylinder Misfire	• Ignition system	11-59
P1316 (79)	Spark Plug Voltage Detection Circuit Malfunction [Left Bank (Bank 2)]	• Open or short in Spark Plug Voltage Detection Module circuit • Spark Plug Voltage Detection Module • PCM	11-102
P1317 (79)	Spark Plug Voltage Detection Circuit Malfunction [Right Bank (Bank 1)]	• Open or short in Spark Plug Voltage Detection Module circuit • Spark Plug Voltage Detection Module • PCM	11-102
P1318 (79)	Spark Plug Voltage Detection Module Reset Circuit Malfunction [Left Bank (Bank 2)]	• Open or short in Spark Plug Voltage Detection Module Reset circuit • Spark Plug Voltage Detection Module • PCM	11-104
P1319 (79)	Spark Plug Voltage Detection Module Reset Circuit Malfunction [Right Bank (Bank 1)]	• Open or short in Spark Plug Voltage Detection Module Reset circuit • Spark Plug Voltage Detection Module • PCM	11-104
P1336 (54)	Crankshaft Position (CKP) 2 Sensor Circuit Intermittent Interruption	• CKP 2 Sensor • Timing belt skipped teeth	11-64
P1337 (54)	Crankshaft Position (CKP) 2 Sensor Circuit No Signal	• CKP 2 Sensor • CKP 2 Sensor circuit • PCM	11-64

*3: The  indicator light and the Malfunction Indicator Lamp (MIL) may come on simultaneously.

***: DTC P0700 indicates that the MIL came on because an automatic transmission DTC was set. Go to A/T menu on the HDS or scan tool to check the A/T DTC and freeze data.



DTC (MIL indication)	Detection Item	Probable Cause	Page
P1386 (59)	Camshaft Position (CMP) (Cylinder Position (CYP)) 2 Sensor Intermittent Interruption	• CMP (CYP) 2 Sensor	11-64
P1387 (59)	Camshaft Position (CMP) (Cylinder Position (CYP)) 2 Sensor Circuit No Signal	• CMP (CYP) 2 Sensor • CMP (CYP) 2 Sensor circuit • PCM	11-64
P1456 (90)* ²	Evaporative Emission (EVAP) Control System Leakage (Fuel Tank System)	• Vacuum connection • Fuel tank • FTP sensor • Fuel fill cap • EVAP bypass solenoid valve • EVAP two way valve • EVAP canister vent shut valve • EVAP canister • EVAP canister purge valve	11-92
P1457 (90)* ²	Evaporative Emission (EVAP) Control System Leakage (EVAP Canister Area)	• Vacuum connection • EVAP canister • FTP sensor • EVAP bypass solenoid valve • EVAP two way valve • EVAP canister vent shut valve • Fuel tank • EVAP canister purge valve	11-97
P1486 (87)	Cooling System Malfunction	• Radiator Fan Circuit • Thermostat	11-67
P1690 (35)	TCSTB Line Failure	• TCSTB Line • VSA converter unit • PCM	Section 19
P1696 (36)	TCFC Signal Low Voltage	• TCFC Line • VSA converter unit • PCM	Section 19
PI 697 (36)	TCFC Signal High Voltage	• TCFC Line • VSA converter unit • PCM	Section 19
P17xx (70)* ³	Automatic Transaxle System Malfunction	—	Section 14
P2195 (2)* ²	Right Primary Heated Oxygen Sensor (Right Primary HO2S) Circuit Low Voltage (Bank 1, Sensor 1)	• Short in Right Primary HO2S (Bank 1, Sensor 1) circuit • Right Primary HO2S (Bank 1, Sensor 1) • Fuel supply system • PCM	11-54
P2197 (1)* ²	Left Primary Heated Oxygen Sensor (Left Primary HO2S) Circuit Low Voltage (Bank 2, Sensor 1)	• Short in Left Primary HO2S (Bank 2, Sensor 1) circuit • Left Primary HO2S (Bank 2, Sensor 1) • Fuel supply system • PCM	11-54
P2227 (13)	Barometric Pressure (BARO) Sensor Circuit Range/Performance Problem	• PCM (Baro sensor)	11-68
P2228 (13)	Barometric Pressure (BARO) Sensor Circuit Low Voltage	• PCM (Baro sensor)	11-69
P2229 (13)	Barometric Pressure (BARO) Sensor Circuit High Voltage	• PCM (Baro sensor)	11-69

*2: These DTCs require two "trips" or two driving cycles unless the SCS service connector is connected.

*3: The  indicator light and the Malfunction Indicator Lamp (MIL) may come on simultaneously.

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Troubleshooting

Diagnostic Trouble Code (DTC) Chart (cont'd)

DTC (MIL indication)	Detection Item	Probable Cause	Page
P2297 (2)	Right Primary Heated Oxygen Sensor (Right Primary H02S) Circuit High Voltage (Bank 1, Sensor. 1)	• Right Primary H02S (Bank 2, Sensor 1) • Short in Right Primary H02S (Bank 2, Sensor 1) circuit • Fuel supply system • PCM	11-56
P2298 (1)	Left Primary Heated Oxygen Sensor (Left Primary H02S) Circuit High Voltage (Bank 2, Sensor 1)	• Left Primary HO2S (Bank 2, Sensor 1) • Short in Left Primary H02S (Bank 2, Sensor 1) circuit • Fuel supply system • PCM	11-56