

DIAGNOSTIC TROUBLE CODE CHART

HINT:

Parameters listed in the chart may not be exactly the same as your reading due to the type of instrument or other factors.

If a malfunction code is displayed during the DTC check in check mode, check the circuit for that code listed in the table below. For details of each code, turn to the page referred to under the "See page " for the respective "DTC No." in the DTC chart.

SAE CONTROLLED:

DTC No.	Detection Item	Trouble Area	MIL*1	Memory
P0100 (DI-22)	Mass Air Flow Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in mass air flow meter circuit • Mass air flow meter • ECM 	○	○
P0101 (DI-26)	Mass Air Flow Circuit Range/Performance Problem	<ul style="list-style-type: none"> • Mass air flow meter 	○	○
P0110 (DI-27)	Intake Air Temp. Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in intake air temp. sensor circuit • Intake air temp. sensor (built into mass air flow meter) • ECM 	○	○
P0115 (DI-32)	Engine Coolant Temp. Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in engine coolant temp. sensor circuit • Engine coolant temp. sensor • ECM 	○	○
P0116 (DI-36)	Engine Coolant Temp. Circuit Range/Performance Problem	<ul style="list-style-type: none"> • Cooling system • Engine coolant temp. sensor 	○	○
P0120 (DI-37)	Throttle/Pedal Position Sensor/Switch "A" Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in throttle position sensor circuit • Throttle position sensor • ECM 	○	○
P0121 (DI-42)	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance Problem	<ul style="list-style-type: none"> • Throttle position sensor • ECM 	○	○
P0125 (DI-43)	Insufficient Coolant Temp. for Closed Loop Fuel Control	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor (bank 1 sensor 1) circuit • Heated oxygen sensor (bank 1 sensor 1) • Air induction system • Fuel pressure • Injector • Gas leakage on exhaust system • ECM • PCV piping 	○	○
P0130 (DI-48)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1) (Except Calif.)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit • Heated oxygen sensor • Air induction system • EGR system • Fuel pressure • Injector • ECM 	○	○
P0133 (DI-52)	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit • Heated oxygen sensor • Air induction system • EGR system • Fuel pressure • Injector • ECM 	○	○

DIAGNOSTICS - ENGINE

P0135 (DI-55)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heater circuit of heated oxygen sensor • Heated oxygen sensor heater • ECM 	○	○
P0136 (DI-57)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit • Heated oxygen sensor 	○	○
P0141 (DI-55)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Same as DTC No. P0135 	○	○
P0171 (DI-59)	System too Lean (Fuel Trim)	<ul style="list-style-type: none"> • Air induction system • Injector blockage • Mass air flow meter • Engine coolant temp. sensor • Fuel pressure • Gas leakage on exhaust system • Open or short in heated oxygen sensor (bank 1 sensor 1) circuit • Heated oxygen sensor (bank 1 sensor 1) • PCV piping 	○	○
P0300 (DI-63)	Random/Multiple Cylinder Misfire Detected	<ul style="list-style-type: none"> • Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • EGR system • Manifold absolute pressure sensor • Engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • ECM • PCV piping 	○	○
P0301 (DI-63)	Cylinder 1 Misfire Detected	<ul style="list-style-type: none"> • Open or short in engine wire • Connector connection • Vacuum hose connection 	○	○
P0302 (DI-63)	Cylinder 2 Misfire Detected	<ul style="list-style-type: none"> • Ignition system • Injector • Fuel pressure • EGR system 		
P0303 (DI-63)	Cylinder 3 Misfire Detected	<ul style="list-style-type: none"> • Manifold absolute pressure sensor • Engine coolant temp. sensor • Compression pressure 		
P0304 (DI-63)	Cylinder 4 Misfire Detected	<ul style="list-style-type: none"> • Valve clearance • Valve timing • ECM • PCV piping 		
P0325 (DI-69)	Knock Sensor 1 Circuit Malfunction (Bank 1)	<ul style="list-style-type: none"> • Open or short in knock sensor 1 circuit • Knock sensor 1 (looseness) • ECM 	○	○
P0335 (DI-72)	Crankshaft Position Sensor "A" Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Signal plate (Timing belt guide) • Crankshaft timing pulley • ECM 	○	○

P0340 (DI-75)	Camshaft Position Sensor Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in camshaft position sensor circuit • Camshaft position sensor • Camshaft timing pulley • ECM 	○	○
P0420 (DI-77)	Catalyst System Efficiency Below Threshold (Bank 1)	<ul style="list-style-type: none"> • Gas leakage on exhaust system • Open or short in heated oxygen sensor circuit • Heated oxygen sensor • Three-way catalytic converter 	○	○
P0440 (DI-80)	Evaporative Emission Control System Malfunction	<ul style="list-style-type: none"> • Hose or tube cracked, hole, damaged or loose seal • Fuel tank cap incorrectly installed • Fuel tank cap cracked or damaged • Vacuum hose cracked, hole, blocked, damaged or disconnected • Fuel tank cracked, hole or damaged • Charcoal canister cracked, hole or damaged • Open or short in vapor pressure sensor circuit • Vapor pressure sensor • Fuel tank over fill check valve cracked or damaged • ECM 	○	○
P0441 (DI-86)	Evaporative Emission Control System Incorrect Purge Flow	<ul style="list-style-type: none"> • Vacuum hose cracked, hole, blocked damaged or disconnected • Open or short in vapor pressure sensor circuit • Vapor pressure sensor • Open or short in VSV circuit for EVAP • VSV for EVAP 	○	○
P0446 (DI-86)	Evaporative Emission Control System Vent Control Malfunction	<ul style="list-style-type: none"> • Open or short in VSV circuit for vapor pressure sensor • VSV for vapor pressure sensor • Charcoal canister cracked, hole or damaged • Fuel tank over fill check valve cracked or damaged • ECM 	○	○
P0450 (DI-101)	Evaporative Emission Control System Pressure Sensor Malfunction	<ul style="list-style-type: none"> • Open or short in vapor pressure sensor circuit • Vapor pressure sensor 	○	○
P0451 (DI-101)	Evaporative Emission Control System Pressure Sensor Range/Performance	<ul style="list-style-type: none"> • ECM 	○	○
P0500 (DI-103)	Vehicle Speed Sensor Malfunction	<ul style="list-style-type: none"> • Combination meter • Open or short in vehicle speed sensor circuit • Vehicle speed sensor • ECM 	○	○
P0505 (DI-106)	Idle Control System Malfunction	<ul style="list-style-type: none"> • Open or short in IAC valve circuit • IAC valve is stuck or closed • Open or short in A/C switch circuit • Air induction system • ECM • PCV piping 	○	○
P0550 (DI-111)	Power Steering Pressure Sensor Circuit Malfunction	<ul style="list-style-type: none"> • PS pressure sensor • ECM 	○	○

*1: ○ ... MIL lights up

MANUFACTURER CONTROLLED:

DTC No. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P1300 (DI-113)	Igniter Circuit Malfunction (No.1)	<ul style="list-style-type: none"> • Ignition system • Open or short in IGF1 and IGT1 circuit from No.1 ignition coil with igniter to ECM • No.1 ignition coil with igniter • ECM 	○	○
P1305 (DI-113)	Igniter Circuit Malfunction (No.2)	<ul style="list-style-type: none"> • Ignition system • Open or short in IGF2 and IGT2 circuit from No.2 ignition coil with igniter to ECM • No.2 ignition coil with igniter • ECM 	○	○
P1310 (DI-113)	Igniter Circuit Malfunction (No.3)	<ul style="list-style-type: none"> • Ignition system • Open or short in IGF2 and IGT3 circuit from No.3 ignition coil with igniter to ECM • No.3 ignition coil with igniter • ECM 	○	○
P1315 (DI-113)	Igniter Circuit Malfunction (No.4)	<ul style="list-style-type: none"> • Ignition system • Open or short in IGF1 and IGT4 circuit from No.4 ignition coil with igniter to ECM • No.4 ignition coil with igniter • ECM 	○	○
P1345 (DI-119)	VVT Sensor/Camshaft Position Sensor Circuit Malfunction (Bank 1)	<ul style="list-style-type: none"> • Open or short in VVT sensor circuit • VVT sensor • ECM 	○	○
P1346 (DI-121)	VVT Sensor/Camshaft Position Sensor Circuit Range/Performance Problem (Bank 1)	<ul style="list-style-type: none"> • Mechanical system (Jumping teeth of timing belt, belt stretched) • ECM 	○	○
P1349 (DI-122)	VVT System Malfunction (Bank 1)	<ul style="list-style-type: none"> • Valve timing • OCV • VVT controller assembly • ECM 	○	○
P1520 (DI-129)	Stop Light Switch Signal Malfunction	<ul style="list-style-type: none"> • Short in stop light switch signal circuit • Stop light switch • ECM 	○	○
P1600 (DI-132)	ECM BATT Malfunction	<ul style="list-style-type: none"> • Open in back up power source circuit • ECM 	○	○
P1656 (DI-134)	OCV Circuit Malfunction (for VVT-i)	<ul style="list-style-type: none"> • Open or short in OCV circuit • OCV for VVT-i • ECM 	○	○
P1780*2 (DI-137)	Park/Neutral Position Switch Malfunction	<ul style="list-style-type: none"> • Short in park/neutral position switch circuit • Park/neutral position switch • ECM 	○	○

*1: ○ . . . MIL lights up

*2: A/T only