

DIAGNOSTIC TROUBLE CODE CHART

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 the codes 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. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P0100 (05-31)	Mass Air Flow Circuit Malfunction	• Open or short in intake air flow meter circuit • Intake air flow meter • ECM	○	○
P0101 (05-37)	Mass Air Flow Circuit Range/Performance Problem	• Intake air flow meter	○	○
P0110 (05-38)	Intake Air Temp. Circuit Malfunction	• Open or short in intake air temp. sensor circuit • Intake air temp. sensor (inside intake air flow meter) • ECM	○	○
P0115 (05-41)	Engine Coolant Temp. Circuit Malfunction	• Open or short in E.F.I. engine coolant temp. sensor circuit • E.F.I. engine coolant temp. sensor • ECM	○	○
P0116 (05-44)	Engine Coolant Temp. Circuit Range/Performance Problem	• Cooling system • E.F.I. engine coolant temp. sensor	○	○
P0120 (05-45)	Throttle/Pedal Position Sensor/Switch "A" Circuit Malfunction	• Open or short in throttle position sensor circuit • Throttle position sensor • ECM	○	○
P0121 (05-51)	Throttle/Pedal Position Sensor/Switch "A" Circuit Range/Performance Problem	• Throttle body assy (Throttle position sensor) • ECM	○	○
P0125 (05-52)	Insufficient Coolant Temp. for Closed Loop Fuel Control	• Open or short in A/F sensor (bank 1, 2 sensor 1) circuit • A/F sensor (bank 1, 2 sensor 1) • Air induction system • Fuel pressure • Injector • Gas leakage on exhaust system • PCV hose connection • ECM	○	○
P0128 (05-58)	Thermostat Malfunction	• Thermostat • Cooling system • E.F.I. engine coolant temp. sensor • ECM	○	○
P0136 (05-59)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	• Open or short in heated oxygen sensor circuit • Oxygen sensor	○	○
P0141 (05-63)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	• Open or short in heater circuit of heated oxygen sensor • Oxygen sensor heater • ECM	○	○
P0156 (05-59)	Heated Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)	• Same as DTC No. P0136	○	○
P0161 (05-63)	Heated Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)	• Same as DTC No. P0141	○	○

DIAGNOSTICS - SFI SYSTEM (1MZ-FE)

P0171 (05-66)	System too Lean (Fuel Trim) (Bank 1)	• Air induction system • Injector blockage • Intake air flow meter • E.F.I. engine coolant temp. sensor • Fuel pressure • Gas leakage on exhaust system • Open or short in A/F sensor (bank 1, sensor 1) circuit • A/F sensor (bank 1, sensor 1) • PCV hose connection • ECM	○	○
P0172 (05-66)	System too Rich (Fuel Trim) (Bank 1)	• Injector leak, blockage • Intake air flow meter • E.F.I. engine coolant temp. sensor • Ignition system • Fuel pressure • Gas leakage on exhaust system • Open or short in A/F sensor (bank 1, sensor 1) circuit • A/F sensor (bank 1, sensor 1) • PCV hose connection • ECM	○	○
P0174 (05-66)	System too Lean (Fuel Trim) (Bank2)	• Air induction system • Injector blockage • Intake air flow meter • E.F.I. engine coolant temp. sensor • Fuel pressure • Gas leakage on exhaust system • Open or short in A/F sensor (bank 2, sensor 1) circuit • A/F sensor (bank 2, sensor 1) • PCV hose connection • ECM	○	○
P0175 (05-66)	System too Rich (Fuel Trim) (Bank2)	• Injector leak, blockage • Intake air flow meter • E.F.I. engine coolant temp. sensor • Ignition system • Fuel pressure • Gas leakage on exhaust system • Open or short in A/F sensor (bank 2, sensor 1) circuit • A/F sensor (bank 2, sensor 1) • PCV hose connection • ECM	○	○
P0300 (05-71)	Random/Multiple Cylinder Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Intake air flow meter • E.F.I. engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • ECM	○*2	○

P0301 (05-71)	Cylinder 1 Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Intake air flow meter • E.F.I. engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • ECM	○*2	○
P0302 (05-71)	Cylinder 2 Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Intake air flow meter • E.F.I. engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • ECM	○*2	○
P0303 (05-71)	Cylinder 3 Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Intake air flow meter • E.F.I. engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • ECM	○*2	○
P0304 (05-71)	Cylinder 4 Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Intake air flow meter • E.F.I. engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • ECM	○*2	○

DIAGNOSTICS - SFI SYSTEM (1MZ-FE)

P0305 (05-71)	Cylinder 5 Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Intake air flow meter • E.F.I. engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • ECM	○*2	○
P0306 (05-71)	Cylinder 6 Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Intake air flow meter • E.F.I. engine coolant temp. sensor • Compression pressure • Valve clearance • Valve timing • PCV hose connection • ECM	○*2	○
P0325 (05-77)	Knock Sensor 1 Circuit Malfunction (Bank 1)	• Open or short in knock sensor 1 circuit • Knock control sensor 1 (looseness) • ECM	○	○
P0330 (05-77)	Knock Sensor 2 Circuit Malfunction (Bank 2)	• Open or short in knock sensor 2 circuit • Knock control sensor 2 (looseness) • ECM	○	○
P0335 (05-80)	Crankshaft Position Sensor "A" Circuit Malfunction	• Open or short in crankshaft position sensor circuit • Crank position sensor • Crankshaft timing pulley • ECM	○	○
P0340 (05-83)	Camshaft Position Sensor Circuit Malfunction	• Open or short in camshaft position sensor circuit • Crank position sensor No.1 • Camshaft timing gear • ECM	○	○
P0420 (05-85)	Catalyst System Efficiency Below Threshold (Bank 1)	• Gas leakage on exhaust system • A/F sensor (bank 1, sensor 1) • Oxygen sensor (bank 1, sensor 2) • Exhaust manifold	○	○
P0430 (05-85)	Catalyst System Efficiency Below Threshold (Bank 2)	• Gas leakage on exhaust system • A/F sensor (bank 2, sensor 1) • Oxygen sensor (bank 2, sensor 2) • Exhaust manifold	○	○

P0440 (05-88)	Evaporative Emission Control System Malfunction	• Hose or tube cracked, holed, damaged or insufficient seal • Fuel tank cap incorrectly installed • Fuel tank cap cracked or damaged • Vacuum hose cracked, holed, blocked, damaged or disconnected • Fuel tank cracked, holed or damaged • Charcoal canister cracked, holed or damaged • Open or short in vapor pressure sensor circuit • VSV for CCV • VSV for EVAP • VSV for pressure switching valve • Vapor pressure sensor • Fuel tank over fill check valve cracked or damaged • ECM	○	○
P0441 (05-97)	Evaporative Emission Control System Incorrect Purge Flow	• Vacuum hose cracked, holed blocked, damaged or disconnected ((1), (2), (3), (4), (5), (6), (7), (8), (9), (10) and (11) in Fig. 1) • Fuel tank cap incorrectly installed • Open or short in vapor pressure sensor circuit • Vapor pressure sensor • Open or short in VSV circuit for EVAP • VSV for EVAP • Open or short in VSV circuit for CCV • VSV for CCV • Open or short in VSV circuit for pressure switching valve • VSV for pressure switching valve • Fuel tank cracked, holed or damaged • Charcoal canister cracked, holed or damaged • Fuel tank over fill check valve cracked or damaged • ECM	○	○
P0442 (05-88)	Evaporative Emission Control System Malfunction	• Same as DTC No. P0440	○	○
P0446 (05-97)	Evaporative Emission Control System Malfunction	• Same as DTC No. P0441	○	○
P0450 (05-112)	Evaporative Emission Control System Pressure Sensor Malfunction	• Open or short in vapor pressure sensor circuit • Vapor pressure sensor • ECM	○	○
P0451 (05-112)	Evaporative Emission Control System Pressure Sensor Range/Performance	• Open or short in vapor pressure sensor circuit • Vapor pressure sensor • ECM	○	○
P0500 (05-114)	Vehicle Speed Sensor Malfunction	• Combination meter • Vehicle speed sensor • Open or short in speed sensor circuit • ECM • Skid control computer assy	○	○
P0505 (05-117)	Idle Control System Malfunction	• Throttle body assy • Air induction system • PCV hose connection • ECM	○	○
P0605*3	Internal Control Module Read Only Memory Error	• ECM	—	○
P0710 (05-410)	Transmission Fluid Temp. Sensor Malfunction	• Electronic controlled automatic transmission (ECT)	○	○
P0711 (05-410)	Transmission Fluid Temp. Sensor Range/Performance Problem	• Electronic controlled automatic transmission (ECT)	○	○
P0750 (05-413)	Shift Solenoid A Malfunction	• Electronic controlled automatic transmission (ECT)	○	○

DIAGNOSTICS - SFI SYSTEM (1MZ-FE)

P0753 (05-420)	Shift Solenoid A Electrical Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0755 (05-413)	Shift Solenoid B Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0758 (05-420)	Shift Solenoid B Electrical Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0760 (05-413)	Shift Solenoid C Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0763 (05-420)	Shift Solenoid C Electrical Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0765 (05-413)	Shift Solenoid D Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0768 (05-420)	Shift Solenoid D Electrical Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0770 (05-429)	Shift Solenoid E Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐
P0773 (05-433)	Shift Solenoid E Electrical Malfunction	•Electronic controlled automatic transmission (ECT)	☐	☐

*1: MIL lights up

*2: MIL light up or blinking

*3: Replace ECM

MANUFACTURER CONTROLLED

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P1120 (05-120)	Accelerator Pedal Position Sensor Circuit Malfunction	•Open or short in accelerator pedal position sensor circuit •Accelerator pedal position sensor •ECM	☐	☐
P1121 (05-125)	Accelerator Pedal Position Sensor Range/Performance Problem	•Accelerator pedal position sensor •ECM	☐	☐
P1125 (05-127)	Throttle Control Motor Circuit Malfunction	•Open or short in throttle control motor circuit •Throttle body assy (Throttle control motor) •ECM	☐	☐
P1127 (05-130)	ETCS Actuator Power Source Circuit Malfunction	•ETCS actuator power source circuit malfunction •ECM	☐	☐
P1128 (05-132)	Throttle Control Motor Lock Malfunction	•Throttle body assy (Throttle motor) •Throttle body assy (Throttle valve)	☐	☐
P1129 (05-133)	Electric Throttle Control System Malfunction	•Electric throttle control system malfunction •ECM	☐	☐
P1130 (05-134)	A/F Sensor Circuit Range/Performance Malfunction (Bank 1 Sensor 1)	•Open or short in A/F sensor circuit •A/F sensor •Air induction system •Fuel pressure •Injector •ECM	☐	☐
P1133 (05-138)	A/F Sensor Circuit Response Malfunction (Bank 1 Sensor 1)	•Open or short in A/F sensor circuit •A/F sensor •Air induction system •Fuel pressure •Injector •ECM	☐	☐

P1135 (05-141)	A/F Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)	• Open or short in heater circuit of A/F sensor • A/F sensor heater • A/F ratio sensor heater relay • ECM	○	○
P1150 (05-134)	A/F Sensor Circuit Range/Performance Malfunction (Bank 2 Sensor 1)	• Same as DTC No. P1130	○	○
P1153 (05-138)	A/F Sensor Circuit Response Malfunction (Bank 2 Sensor 1)	• Same as DTC No. P1133	○	○
P1155 (05-141)	A/F Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)	• Same as DTC No. P1135	○	○
P1300 (05-143)	Igniter Circuit Malfunction (No.1)	• Ignition system • Open or short in IGF1 or IGT1 circuit from No.1 ignition coil with igniter to ECM • No.1 ignition coil with igniter • ECM	○	○
P1305 (05-143)	Igniter Circuit Malfunction (No.2)	• Ignition system • Open or short in IGF2 or IGT2 circuit from No.2 ignition coil with igniter to ECM • No.2 ignition coil with igniter • ECM	○	○
P1310 (05-143)	Igniter Circuit Malfunction (No.3)	• Ignition system • Open or short in IGF2 or IGT3 circuit from No.3 ignition coil with igniter to ECM • No.3 ignition coil with igniter • ECM	○	○
P1315 (05-143)	Igniter Circuit Malfunction (No.4)	• Ignition system • Open or short in IGF1 or IGT4 circuit from No.4 ignition coil with igniter to ECM • No.4 ignition coil with igniter • ECM	○	○
P1320 (05-143)	Igniter Circuit Malfunction (No.5)	• Ignition system • Open or short in IGF2 or IGT5 circuit from No.5 ignition coil with igniter to ECM • No.5 ignition coil with igniter • ECM	○	○
P1325 (05-143)	Igniter Circuit Malfunction (No.6)	• Ignition system • Open or short in IGF1 or IGT6 circuit from No.6 ignition coil with igniter to ECM • No.6 ignition coil with igniter • ECM	○	○
P1335 (05-149)	Crankshaft Position Sensor Circuit Malfunction (During engine running)	• Open or short in crankshaft position sensor circuit • Crank position sensor • Camshaft timing gear • ECM	—	○
P1346 (05-151)	VVT Sensor/Camshaft position Sensor Circuit Range/Performance Problem (Bank 1)	• Mechanical system (Jumping teeth of timing belt, belt stretched) • ECM	○	○
P1349 (05-152)	VVT System Malfunction (Bank 1)	• Valve timing • OCV • VVT controller assembly • ECM	○	○
P1350 (05-157)	VVT Sensor/Camshaft position Sensor Circuit Malfunction (Bank 2)	• Open or short in VVT sensor (Crank position sensor No.1) circuit • VVT sensor (Crank position sensor No.1) • Camshaft timing gear • ECM	○	○

DIAGNOSTICS - SFI SYSTEM (1MZ-FE)

P1351 (05-151)	VVT Sensor/Camshaft position Sensor Circuit Range/Performance Problem (Bank 2)	• Same as DTC No. P1346	○	○
P1354 (05-152)	VVT System Malfunction (Bank 2)	• Same as DTC No. P1349	○	○
P1520 (05-159)	Stop Light Switch Signal Malfunction	• Short in stop light switch signal circuit • Stop light switch • ECM	○	○
P1566 (05-1262)	Input Signal Circuit Abnormal	• ECM	○	○
P1600 (05-161)	ECM BATT Malfunction	• Open in back up power source circuit • ECM	○	○
P1633 (05-163)	ECM Malfunction (ETCS Circuit)	• ECM	○	○
P1656 (05-164)	OCV Circuit Malfunction (Bank 1)	• Open or short in OCV Circuit • OCV • ECM	○	○
P1663 (05-164)	OCV Circuit Malfunction (Bank 2)	• Open or short in OCV Circuit • OCV • ECM	○	○
P1725 (05-438)	NT Revolution Sensor Malfunction	• Electronic controlled automatic transmission (ECT)	○	○
P1730 (05-440)	NT Revolution Sensor Malfunction	• Electronic controlled automatic transmission (ECT)	○	○
P1760 (05-443)	Linear Solenoid For Accumulator Pressure Control Malfunction	• Electronic controlled automatic transmission (ECT)	○	○
P1780 (05-447)	Park/Neutral Position Switch Malfunction	• Short in park/neutral position switch circuit • Park/neutral position switch • ECM	○	○
P1815 (05-413)	SR Solenoid Valve Malfunction	• Electronic controlled automatic transmission (ECT)	○	○
P1818 (05-420)	SR Solenoid Valve Malfunction	• Electronic controlled automatic transmission (ECT)	○	○
B2795 (05-1192)	Unmatched Key Code	• Immobilizer system	—	○
B2796 (05-1193)	No Communication in Immobilizer System	• Immobilizer system	—	○
B2797 (05-1196)	Communication Malfunction No.1	• Immobilizer system	—	○
B2798 (05-1193)	Communication Malfunction No.2	• Immobilizer system	—	○

*: ○ ~~0000~~ MIL lights up, - ~~0000~~ MIL dose not lights up.