DIAGNOSTIC TROUBLE CODE CHART

HINT:

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

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

SAE DEFINED

DTC No. (See page)	Detection Item	Trouble Area	MIL* ¹	Memory
P0100 (DI-22)	Mass Air Flow Circuit Malfunc- tion	 Open or short in mass air flow meter circuit Mass air flow meter ECM 	0	0
P0101 (DI-26)	Mass Air Flow Circuit Range/ Performance Problem	Mass air flow meter	0	0
P0110 (DI-27)	Intake Air Temp. Circuit Malfunc- tion	 Open or short in intake air temp. sensor circuit Intake air temp. sensor (built into mass air flow meter) ECM 	0	0
P0115 (DI-31)	Engine Coolant Temp. Circuit Malfunction	 Open or short in engine coolant temp. sensor circuit Engine coolant temp. sensor ECM 	0	0
P0116 (<mark>DI-35</mark>)	Engine Coolant Temp. Circuit Range/Performance Problem	Cooling system Engine coolant temp. sensor	0	0
P0120 (DI-37)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Malfunction	Open or short in throttle position sensor circuit Throttle position sensor ECM	0	0
P0121 (DI-41)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Perfor- mance Problem	Throttle position sensor	0	0
P0125 (DI-42)	Insufficient Coolant Temp. for Closed Loop Fuel Control	 Open or short in A/F sensor (bank 1 sensor 1) circuit A/F sensor (bank 1 sensor 1) Air induction system EGR system Fuel pressure Injector Gas leakage on exhaust system ECM 	0	0
P0136 (DI-47)	Oxygen Sensor Circuit Malfunc- tion (Bank 1 Sensor 2)	Open or short in heated oxygen sensor circuit Heated oxygen sensor	0	0
P0141 (DI-49)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	Open or short in heater circuit of heated oxygen sensor Heated oxygen sensor ECM	0	0
P0171 (DI-51)	System too Lean (Fuel Trim)	 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 A/F sensor (bank 1 sensor 1) ECM 	0	0

P0172 (DI-51)	System too Rich (Fuel Trim)	 Injector leak, blockage Mass air flow meter Engine coolant temp. sensor Ignition system Fuel pressure Gas leakage on exhaust system Open or short in heated oxygen sensor (bank 1 sensor 1) circuit A/F sensor (bank 1 sensor 1) ECM 	0	0
P0300 (DI-56)	Random/Multiple Cylinder Misfire Detected	Open or short in engine wire Connector connection Vacuum hose connection		
P0301 (DI-56)	Cylinder 1 Misfire Detected	Ignition system Injector		
P0302 (DI-56)	Cylinder 2 Misfire Detected	 Fuel pressure EGR system Mass air flow meter 	_*2	0
P0303 (DI-56)	Cylinder 3 Misfire Detected	Engine coolant temp. sensor Compression pressure Valve clearance		
P0304 (DI-56)	Cylinder 4 Misfire Detected	Valve timing ECM		
P0325 (DI-61)	Knock Sensor 1 Circuit Malfunc- tion (Bank 1)	 Open or short in knock sensor 1 circuit Knock sensor 1 (looseness) ECM 	0	0
P0335 (DI-64)	Crankshaft Position Sensor "A" Circuit Malfunction	 Open or short in crankshaft position sensor circuit Crankshaft position sensor Signal plate (Crankshaft position sensor rotor) ECM 	0	0
P0340 (DI-66)	Camshaft Position Sensor Circuit Malfunction	 Open or short in camshaft position sensor circuit Camshaft position sensor ECM 	0	0
P0401 (DI-68)	Exhaust Gas Recirculation Flow Insufficient Detected (Only for 3RZ-FE)	 Open in EGR gas temp. sensor circuit EGR gas temp. sensor Vacuum or EGR hose disconnected Open or short in VSV circuit for EGR VSV for EGR EGR system EGR vacuum modulator EGR valve stuck closed ECM 	0	0
P0402 (DI-77)	Exhaust Gas Recirculation Flow Excessive Detected (Only for 3RZ-FE)	 Short in EGR gas temp. sensor circuit EGR gas temp. sensor Open in VSV circuit for EGR VSV for EGR EGR valve stuck open ECM 	0	0
P0420 (DI-81)	Catalyst System Efficiency Be- low Threshold (Bank 1)	 Gas leakage on exhaust system A/F sensor Three-way catalytic convertor 	0	0

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	P	1		
P0440 (DI-84)	Evaporative Emission Control System Malfunction	 Hose or tube cracked, holed, damaged or loose seal ((3) in Fig. 1) Fuel tank cap incorrectly installed Fuel tank cap cracked or damaged Vacuum hose cracked, holed, blocked, damaged or disconnected ((1) or (2) in Fig. 1) Fuel tank cracked, holed or damaged Charcoal canister cracked, holed or damaged Open or short in vapor pressure sensor circuit Vapor pressure sensor ECM 	0	0
P0441 (DI-90)	Evaporative Emission Control System Incorrect Purge Flow	 Vacuum hose cracked, holed, damaged, blocked or disconnected ((1), (4), (5), (6) and (7) in Fig. 1) Open or short in vapor pressure sensor circuit Vapor pressure sensor Open or short in VSV circuit for EVAP 	0	0
P0446 (DI-90)	Evaporative Emission Control System Vent Control Malfunction	 VSV for EVAP Open or short in VSV circuit for vapor pressure sensor VSV for vapor pressure sensor Charcoal canister cracked, holed or damaged ECM 		
P0450 (DI-101)	Evaporative Emission Control System Pressure Sensor Mal- function	Open or short in vapor pressure sensor circuit		
P0451 (DI-101)	Evaporative Emission Control System Pressure Sensor Range/ Performance	Vapor pressure sensor ECM	0	0
P0500 (DI-103)	Vehicle Speed Sensor Malfunc- tion (For 2RZ-FE)	 Speedometer cable Open or short in vehicle speed sensor circuit Vehicle speed sensor ECM 	0	0
P0500 (DI-103)	Vehicle Speed Sensor Malfunc- tion (For 3RZ-FE)	 Combination meter Open or short in vehicle speed sensor circuit Vehicle speed sensor ECM 	0	0
P0505 (DI-105)	Idle Control System Malfunction	 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 	0	0

*1: MIL lights up. *2: MIL lights up or blinking. MANUFACTURER DEFINED

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P1130 (DI-108)	A/F Sensor Circuit Range/Perfor- mance Malfunction (Bank 1 Sen- sor 1)	 Open or short in A/F sensor circuit A/F sensor Air induction system Fuel pressure Injector ECM 	0	0

P1133 (DI-1 13)	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 	0	0
P1135 (DI-117)	A/F Sensor Heater Circuit Mal- function (Bank1 Sensor 1)	 Open or short in heater circuit of A/F sensor A/F sensor heater ECM 	0	0
P1300 (DI-119)	Igniter Circuit Malfunction (No.1)	 Ignition system Open or short in IGF or IGT1 circuit from No.1 ignition coil with igniter to ECM No.1 ignition coil with igniter ECM 	0	0
P1305 (DI-119)	Igniter Circuit Malfunction (No.2)	 Ignition system Open or short in IGF or IGT2 circuit from No.2 ignition coil with igniter to ECM No.2 ignition coil with igniter ECM 	0	0
P1310 (DI-1 19)	Igniter Circuit Malfunction (No.3)	 Ignition system Open or short in IGF or IGT3 circuit from No.3 ignition coil with igniter to ECM No.3 ignition coil with igniter ECM 	0	0
P1315 (DI-1 19)	Igniter Circuit Malfunction (No.4)	 Ignition system Open or short in IGF or IGT4 circuit from No.4 ignition coil with igniter to ECM No.4 ignition coil with igniter ECM 	0	0
P1335 (DI-125)	Crankshaft Position Sensor Cir- cuit Malfunction (During engine running)	 Open or short in crankshaft position sensor circuit Crankshaft position sensor Signal plate (Crankshaft position sensor rotor) ECM 	-	0
P1520 (DI-126)	Stop Light Switch Signal Mal- function (Only for A/T)	 Short in stop light switch signal circuit Stop light switch ECM 	0	0
P1600 (DI-129)	ECM BATT Malfunction	• Open in back up power source circuit • ECM	0	0
P1780 (DI-131)	Park/Neutral Position Switch Malfunction (Only for 3RZ-FE A/T)	 Short in park/neutral position switch circuit Park/neutral position switch ECM 	0	0

*: \odot ... MIL lights up. - ... MIL does not light up.