

DIAGNOSTIC TROUBLE CODE CHART

SAE CONTROLLED

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.

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P0100 (DI-24)	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-28)	Mass Air Flow Circuit Range / Performance Problem	<ul style="list-style-type: none"> • Mass air flow meter 	○	○
P0110 (DI-29)	Intake Air Temp. Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in intake air temp. sensor circuit • Intake air temp. sensor • ECM 	○	○
P0115 (DI-33)	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-37)	Engine Coolant Temp. Circuit Range / Performance Problem	<ul style="list-style-type: none"> • Engine coolant temp. sensor • Cooling system 	○	○
P0120 (DI-39)	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-44)	Throttle / Pedal Position Sensor / Switch "A" Circuit Range / Performance Problem	<ul style="list-style-type: none"> • Throttle position sensor 	○	○
P0125 (DI-45)	Insufficient Coolant Temp. for Closed Loop Fuel Control	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor (bank1, 2 sensor 1) circuit • Heated oxygen sensor (bank1, 2 sensor 1) 	○	○
P0130 (DI-48)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Heated oxygen sensor • Fuel trim malfunction 	○	○
P0133 (DI-51)	Heated Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Heated oxygen sensor 	○	○
P0135 (DI-52)	Heated 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-54)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Heated oxygen sensor 	○	○
P0141 (DI-52)	Heated Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Same as DTC No. P0135 	○	○
P0150 (DI-48)	Heated Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 1)	<ul style="list-style-type: none"> • Same as DTC No. P0130 	○	○

*: ○... MIL lights up

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P0153 (DI-51)	Heated Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 1)	• Same as DTC No. P0133	○	○
P0155 (DI-52)	Heated Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)	• Same as DTC No. P0135	○	○
P0171 (DI-56)	System too Lean (Fuel Trim)	• Air Intake (hose loose) • Fuel line pressure • Injector blockage • Heated oxygen sensor (bank 1, 2 sensor 1) malfunction • Mass air flow meter • Engine coolant temp. sensor	○	○
P0172 (DI-56)	System too Rich (Fuel Trim)	• Fuel line pressure • Injector blockage, leak • Heated oxygen sensor (bank 1, 2 sensor 1) malfunction • Mass air flow meter • Engine coolant temp. sensor	○	○
P0300 (DI-59)	Random / Multiple Cylinder Misfire Detected	• Ignition system • Injector	○*1	○
P0301	Misfire Detected	• Fuel line pressure		
P0302	– Cylinder 1	• EGR		
P0303	– Cylinder 2	• Compression pressure		
P0304	– Cylinder 3	• Valve clearance not to specification		
P0305	– Cylinder 4	• Valve timing		
P0306 (DI-59)	– Cylinder 5 – Cylinder 6	• Mass air flow meter • Engine coolant temp. sensor		
P0325 (DI-64)	Knock Sensor 1 Circuit Malfunction	• Open or short in knock sensor 1 circuit • Knock sensor 1 (looseness) • ECM	○*2	○
P0330 (DI-64)	Knock Sensor 2 Circuit Malfunction	• Open or short in knock sensor 2 circuit • Knock sensor 2 (looseness) • ECM	○*2	○
P0335 (DI-67)	Crankshaft Position Sensor "A" Circuit Malfunction	• Open or short in crankshaft position sensor circuit for NE signal • Crankshaft position sensor for NE signal • Starter • ECM	○*2	○
P0340 (DI-70)	Camshaft Position Sensor Circuit Malfunction	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Open or short in crankshaft position sensor circuit for NE2 signal • Crankshaft position sensor for NE2 signal • Starter • ECM	○*2	○
P0385 (DI-72)	Crankshaft Position Sensor "B" Circuit Malfunction	• Open or short in crankshaft position sensor circuit for NE2 signal • Crankshaft position sensor for NE2 signal • ECM	○*2	○

*: ○... MIL lights up

*1: MIL lights up or blinking

*2: MIL lights up

DIAGNOSTICS – ENGINE (2JZ-GE)

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P0401 (DI-75)	Exhaust Gas Recirculation Flow Insufficient Detected	<ul style="list-style-type: none"> • EGR valve stuck closed • Short in VSV circuit for EGR • Open in EGR gas temp. sensor circuit • EGR hose disconnected • ECM 	○*2	○
P0402 (DI-86)	Exhaust Gas Recirculation Flow Excessive Detected	<ul style="list-style-type: none"> • EGR valve stuck open • EGR VSV open malfunction • Open in VSV circuit for EGR • Short in EGR gas temp. sensor circuit • ECM 	○*2	○
P0420 (DI-90)	Catalyst System Efficiency Below Threshold	<ul style="list-style-type: none"> • Three-way catalytic converter • Open or short in heated oxygen sensor circuit • Heated oxygen sensor 	○	○
P0441 (DI-93)	Evaporative Emission Control System Incorrect Purge Flow	<ul style="list-style-type: none"> • Open or short in VSV circuit for EVAP • VSV for EVAP • ECM • Vacuum hose blocked or disconnected • Charcoal canister 	○	○
P0500 (DI-97)	Vehicle Speed Sensor Malfunction	<ul style="list-style-type: none"> • Open or short in No.1 vehicle speed sensor circuit • No.1 vehicle speed sensor • Combination meter • ECM 	○	○
P0505 (DI-100)	Idle Control System Malfunction	<ul style="list-style-type: none"> • IAC valve is stuck or closed • Open or short in IAC valve circuit • Open or short in A/C signal circuit • Air intake (hose loose) 	○	○
P0510 (DI-104)	Closed Throttle Position Switch Malfunction	<ul style="list-style-type: none"> • Open or short in closed throttle position switch circuit • Closed throttle position switch • ECM 	○	○

*: ○ ... MIL lights up

*2: MIL lights up

MANUFACTURE CONTROLLED

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P1200 (DI-109)	Fuel Pump Relay / ECU Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in fuel pump ECU circuit • Fuel pump ECU • ECM power source circuit • Fuel pump • ECM 	—	○
P1300 (DI-114)	Igniter Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in IGF or IGT circuit from igniter to ECM • Igniter • ECM 	○	○
P1335 (DI-119)	Crankshaft Position Sensor Circuit Malfunction (during engine running)	<ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit for NE signal • Crankshaft position sensor for NE signal • Starter • ECM 	—	○
P1400 (DI-120)	Sub Throttle Position Sensor Malfunction	<ul style="list-style-type: none"> • Open or short in sub throttle position sensor circuit • Sub throttle position sensor • ECM 	○	○
P1401 (DI-123)	Sub Throttle Position Sensor range / Performance Problem	<ul style="list-style-type: none"> • Sub throttle position sensor 	○	○

P1500 (DI-124)	Starter Signal Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in starter signal circuit • Open or short in ignition switch or starter relay circuit • ECM 	—	○
P1520 (DI-126)	Stop Light Switch Signal Malfunction	<ul style="list-style-type: none"> • Short in stop light switch signal circuit • Stop light switch • ECM 	○	○
P1600 (DI-129)	ECM BATT Malfunction	<ul style="list-style-type: none"> • Open in back up power source circuit • ECM 	○	○
P1605 (DI-131)	Knock Control CPU Malfunction	<ul style="list-style-type: none"> • ECM 	○	○
P1780 (DI-132)	Park / Neutral Position Switch Malfunction	<ul style="list-style-type: none"> • Short in park / neutral position switch circuit • Park / neutral position switch • ECM 	○	○

*: ○ ... MIL lights up