

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-172)	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-176)	Mass Air Flow Circuit Range / Performance problem	<ul style="list-style-type: none"> • Mass air flow meter 	○	○
P0110 (DI-177)	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-181)	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-185)	Engine Coolant Temp. Circuit Range / Performance Problem	<ul style="list-style-type: none"> • Engine coolant temp. sensor • Cooling system 	○	○
P0120 (DI-186)	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-191)	Throttle / Pedal Position Sensor / Switch "A" Circuit Range / Performance Problem	<ul style="list-style-type: none"> • Throttle position sensor 	○	○
P0125 (DI-192)	Insufficient Coolant Temp. for Closed Loop Fuel Control	<ul style="list-style-type: none"> • Open or short in heated oxygen sensor circuit • Heated oxygen sensor 	○	○
P0130 (DI-195)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Heated oxygen sensor • Fuel trim malfunction 	○	○
P0133 (DI-198)	Heated Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Heated oxygen sensor 	○	○
P0135 (DI-199)	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-201)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Heated oxygen sensor 	○	○
P0141 (DI-199)	Heated Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Same as DTC No. P0135 	○	○
P0150 (DI-195)	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-198)	Heated Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 1)	• Same as DTC No. P0133	○	○
P0155 (DI-199)	Heated Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)	• Same as DTC No. P0135	○	○
P0156 (DI-201)	Heated Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)	• Same as DTC No. P0136	○	○
P0161 (DI-199)	Heated Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)	• Same as DTC No. P0135	○	○
P0171 (DI-203)	System too Lean (Fuel Trim)	• Air Intake (hose loose) • Fuel line pressure • Injector blockage • Heated oxygen sensor malfunction • Mass air flow meter • Engine coolant temp. sensor	○	○
P0172 (DI-203)	System too Rich (Fuel Trim)	• Fuel line pressure • Injector leak, blockage • Heated oxygen sensor malfunction • Mass air flow meter • Engine coolant temp. sensor	○	○
P0300 (DI-206)	Random / Multiple Cylinder Misfire Detected	<ul style="list-style-type: none"> • Ignition system • Injector • Fuel line pressure • EGR system • Compression pressure • Valve clearance not to specification • Valve timing • Mass air flow meter • Engine coolant temp. sensor 	○	○
P0301 P0302 P0303 P0304 P0305 P0306 P0307 P0308 (DI-206)	Misfire Detected – Cylinder 1 – Cylinder 2 – Cylinder 3 – Cylinder 4 – Cylinder 5 – Cylinder 6 – Cylinder 7 – Cylinder 8		○	○
P0325 (DI-212)	Knock Sensor 1 Circuit Malfunction		○	○
P0330 (DI-212)	Knock Sensor 2 Circuit Malfunction		○	○
P0335 (DI-215)	Crankshaft Position Sensor "A" Circuit Malfunction		○	○
P0340 (DI-217)	Camshaft Position Sensor Circuit Malfunction		○	○

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DIAGNOSTICS – ENGINE (1UZ-FE)

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P0401 (DI-219)	Exhaust Gas Recirculation Flow Insufficient Detected	<ul style="list-style-type: none"> • EGR valve stuck closed • Open in EGR gas temp. sensor circuit • EGR step motor circuit • ECM 	○	○
P0402 (DI-225)	Exhaust Gas Recirculation Flow Excessive Detected	<ul style="list-style-type: none"> • EGR valve stuck open • Short in EGR gas temp. sensor circuit • EGR step motor circuit • ECM 	○	○
P0403 (DI-228)	Exhaust Gas Recirculation Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in EGR step motor circuit • EGR valve • ECM 	○	○
P0420 (DI-230)	Catalyst System Efficiency Below Threshold (Bank 1)	<ul style="list-style-type: none"> • Three-way catalytic converter • Open or short in heated oxygen sensor circuit • Heated oxygen sensor 	○	○
P0430 (DI-230)	Catalyst System Efficiency Below Threshold (Bank 2)	• Same as DTC No. P0420	○	○
P0440 (DI-233)	Evaporative Emission Control System Malfunction	<ul style="list-style-type: none"> • Vapor pressure sensor • Fuel tank cap incorrectly installed • Fuel tank cap cracked or damaged • Vacuum hose cracked, holed, blocked, damaged, or disconnected • Hose, or tube cracked, holed, damaged or loose • Fuel tank cracked, holed or damaged • Charcoal canister cracked, holed or damaged 	○	○
P0441 (DI-240)	Evaporative Emission Control System Incorrect Purge Flow	<ul style="list-style-type: none"> • Open or short in VSV circuit for vapor pressure sensor • VSV for vapor pressure sensor • Open or short in vapor pressure sensor circuit • Vapor pressure sensor 	○	○
P0446 (DI-240)	Evaporative Emission Control System Vent Control Malfunction	<ul style="list-style-type: none"> • Open or short in VSV circuit for EVAP • VSV for EVAP • Vacuum hose cracks, hole, blocked damaged or disconnected • Charcoal canister cracks, hole or damaged 	○	○
P0450 (DI-251)	Evaporative Emission Control System Pressure Sensor Malfunction	<ul style="list-style-type: none"> • Open or short in vapor pressure sensor circuit • Vapor pressure sensor • ECM 	○	○
P0500 (DI-253)	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-255)	Idle Control System Malfunction	<ul style="list-style-type: none"> • IAC valve is stuck or closed • Open or short in IAC valve circuit • Air intake (hose loose) 	○	○
P0510 (DI-257)	Closed Throttle Position Switch Malfunction	<ul style="list-style-type: none"> • Open in closed throttle position switch circuit • Closed throttle position switch • ECM 	○	○

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MANUFACTURE CONTROLLED

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P1100 (DI-262)	Barometric Pressure Sensor Circuit Malfunction	• ECM	○	○
P1200 (DI-263)	Fuel Pump Relay / ECU Circuit Malfunction	• Open or short in fuel pump ECU circuit • Fuel pump ECU • ECM power source circuit • Fuel pump • ECM	○	○
P1300 (DI-267)	Igniter (Bank 1) Circuit Malfunction	• Open or short in IGF1 or IGT1 circuit from No.1 igniter to ECM • No.1 igniter • ECM	○	○
P1305 (DI-267)	Igniter (Bank 2) Circuit Malfunction	• Open or short in IGF2 or IGT2 circuit from No.2 igniter to ECM • No.2 igniter • ECM	○	○
P1335 (DI-273)	Crankshaft Position Sensor Circuit Malfunction (during engine running)	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Starter • ECM	—	○
P1400 (DI-274)	Sub Throttle Position Sensor Malfunction	• Open or short in sub throttle position sensor circuit • Sub throttle position sensor • ECM	○	○
P1401 (DI-277)	Sub Throttle Position Sensor range / Performance Problem	• Sub throttle position sensor	○	○
P1520 (DI-278)	Stop Light Switch Signal Malfunction	• Short in stop light switch signal circuit • Stop light switch • ECM	○	○
P1600 (DI-281)	ECM BATT Malfunction	• Open in back up power source circuit • ECM	○	○
P1605 (DI-283)	Knock Control CPU Malfunction	• ECM	○	○
P1780 (DI-284)	Park / Neutral Position Switch Malfunction	• Short in park / neutral position switch circuit • Park / neutral position switch • ECM	○	○

*: — MIL dose not light up

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