DI9SX–01

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 the check mode, check the circuit for that code listed in the table below. For details of each code, referre to the ”See page ” under the respective ”DTC No.” in the DTC chart.

DTC No. (See page)	Detection Item	Trouble Area	CHK ENG *1	Memory
P0100 (DI–23)	Mass Air Flow Circuit Malfunction	• Open or short in air flow meter circuit • Air flow meter • Engine ECU	○	○
P0110 (DI–30)	Intake Air Temperature Circuit Malfunction	• Open or short in intake air temperature sensor circuit • Intake air temperature sensor (built into air flow meter) • Engine ECU	○	○
P0115 (DI–37)	Engine Coolant Temperature Circuit Malfunction	• Open or short in water temperature sensor circuit • Water temperature sensor • Engine ECU	○	○
P0116 (DI–43)	Engine Coolant Temperature Circuit Range/Performance Problem	• Water temperature sensor • Engine coolant system	○	○
P0120 (DI–45)	Throttle Pedal Position Sensor/ Switch ”A” Circuit Malfunction	• Open or short in throttle position sensor circuit • Throttle position sensor • Engine ECU	○	○
P0121 (DI–51)	Throttle Pedal Position Sensor/ Switch ”A” Circuit Range/Performance Problem	• Throttle position sensor	○	○
P0125 (DI–52)	Insufficient Coolant Temperature 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 • Engine ECU	○	○
P0136 (DI–57)	O2 Sensor Circuit Malfunction (Bank 1 Sensor 1)	• Open or short in oxygen sensor circuit • Oxygen sensor	○	○
P0141 (DI–59)	O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)	• Open or short in heater circuit of oxygen sensor • Oxygen sensor • Engine ECU	○	○
P0171 (DI–61)	System too Lean (Fuel Trim)	• Air induction system • Injector blockage • Air flow meter • Water temperature sensor • Fuel pressure • Gas leakage on exhaust system • Open or short in oxygen sensor (bank 1 sensor 1) circuit • A/F sensor (bank 1 sensor 1) • Engine ECU	○	○

P0172 (DI–61)	System too Rich (Fuel Trim)	• Injector leakage, blockage • Air flow meter • Water temperature sensor • Ignition system • Fuel pressure • Gas leakage on exhaust system • Open or short in oxygen sensor (bank 1 sensor 1) circuit • A/F sensor (bank 1 sensor 1) • Engine ECU	○	○
P0300 (DI–66)	Random/Multiple Cylinder Misfire Detected	• Open or short in engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • EGR system • Air flow meter • Water temperature sensor • Compression pressure • Valve clearance • Valve timing • Engine ECU	○	○
P0301 (DI–66)	Cylinder 1 Misfire Detected			
P0302 (DI–66)	Cylinder 2 Misfire Detected			
P0303 (DI–66)	Cylinder 3 Misfire Detected			
P0304 (DI–66)	Cylinder 4 Misfire Detected			
P0325 (DI–71)	Knock Sensor 1 Circuit Malfunction	• Open or short in knock sensor 1 circuit • Knock sensor 1 (looseness) • Engine ECU	○	○
P0335 (DI–74)	Crankshaft Position Sensor "A" Circuit Malfunction	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Signal plate (Crankshaft position sensor rotor) • Engine ECU	○	○
P0340 (DI–77)	Camshaft Position Sensor Circuit Malfunction	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Engine ECU	○	○
P0401 (DI–80)	Exhaust Gas Recirculation Flow Insufficient Detected	• Open in EGR gas temperature sensor circuit • EGR gas temperature 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 • Engine ECU	○	○
P0402 (DI–90)	Exhaust Gas Recirculation Flow Excessive Detected	• Short in EGR gas temperature sensor circuit • EGR gas temperature sensor • Open in VSV circuit for EGR • VSV for EGR • EGR valve stuck open • Engine ECU	○	○
P0420 (DI–94)	Catalyst System Efficiency Below Threshold (Bank 1)	• Gas leakage on exhaust system • A/F sensor • Three–way catalytic convertor	○	○
P0443 (DI–97)	Evaporative Emission Control System Purge Control Valve Circuit Malfunction	• Open or short in VSV circuit for EVAP • VSV for EVAP • Engine ECU	○	○

P0500 (DI–100)	Vehicle Speed Sensor Malfunction	• Combination meter • Open or short in vehicle speed sensor circuit • Vehicle speed sensor • Engine ECU	○	○
P0505 (DI–103)	Idle Control System Malfunction	• Open or short in ISC valve circuit • ISC valve is stuck or closed • Open or short in A/C switch circuit • Air induction system • Engine ECU	○	○

*1: ○ · · · Check engine warning light (CHK ENG) lights up.
– · · · Check engine warning light (CHK ENG) does not lights up.

MANUFACTURER DEFINED

DTC No. (See Page)	Detection Item	Trouble Area	Engine Warning Light*	Memory
P1130 (DI–106)	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 • Engine ECU	○	○
P1133 (DI–111)	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 • Engine ECU	○	○
P1135 (DI–115)	A/F Sensor Heater Circuit Malfunction (Bank1 Sensor 1)	• Open or short in heater circuit of A/F sensor • A/F sensor heater • Engine ECU	○	○
P1300 (DI–117)	Igniter Circuit Malfunction (No.1)	• Ignition system • Open or short in IGF or IGT1 circuit from No.1 ignition coil with igniter to Engine ECU • No.1 ignition coil with igniter • Engine ECU	○	○
P1305 (DI–117)	Igniter Circuit Malfunction (No.2)	• Ignition system • Open or short in IGF or IGT2 circuit from No.2 ignition coil with igniter to Engine ECU • No.2 ignition coil with igniter • Engine ECU	○	○
P1310 (DI–117)	Igniter Circuit Malfunction (No.3)	• Ignition system • Open or short in IGF or IGT3 circuit from No.3 ignition coil with igniter to Engine ECU • No.3 ignition coil with igniter • Engine ECU	○	○
P1315 (DI–117)	Igniter Circuit Malfunction (No.4)	• Ignition system • Open or short in IGF or IGT4 circuit from No.4 ignition coil with igniter to Engine ECU • No.4 ignition coil with igniter • Engine ECU	○	○
P1335 (DI–123)	Crankshaft Position Sensor Circuit Malfunction (During engine running)	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Signal plate (Crankshaft position sensor rotor) • Engine ECU	–	○

P1600 (DI–124)	Engine ECU BATT Malfunction	• Open in back up power source circuit • Engine ECU	○	○
B2795 (See Pub. No. RM906E)	Unmatched Key Code	• Key • Unregistered key inserted before	–	○
B2796 (See Pub. No. RM906E)	No Communication in Immobiliser System	• Key • Transponder key amplifier • Wire harness • Engine ECU	–	○
B2797 (See Pub. No. RM906E)	Communication Malfunction No. 1	• Wire harness • Transponder key amplifier • Unregistered key inserted before • Engine ECU	–	○
B2798 (See Pub. No. RM906E)	Communication Malfunction No. 2	• Key • Transponder key amplifier • Wire harness • Engine ECU	–	○

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– · · · Check engine warning light (CHK ENG) does not lights up.