DI37T-03

DIAGNOSTIC TROUBLE CODE CHART

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.

SAE CONTROLLED:

DTC No.	Detection Item	Trouble Area	MIL*1	Memory
P0100 (DI-23)	Mass Air Flow Circuit Malfunction	Open or short in mass air flow meter circuit Mass air flow meter ECM	0	0
P0101 (DI-27)	Mass Air Flow Circuit Range/ PerformanceProblem	Mass air flow meter	0	0
P0110 (DI–28)	Intake Air Temp. Circuit Malfunction	Open or short in intake air temp. sensor circuit Intake air temp. sensor (built into mass air flow meter) ECM	0	0
P0115 (DI-33)	Engine Coolant Temp. Circuit Malfunction	Open or short in engine coolant temp. sensor circuit Engine coolant temp. sensor ECM	0	0
P0116 (DI-37)	Engine Coolant Temp. Circuit Range/PerformanceProblem	Cooling system Engine coolant temp. sensor	0	0
P0120 (DI-38)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Malfunction	Open or short in throttle position sensor circuit Throttle position sensor ECM	0	0
P0121 (DI-43)	Throttle/Pedal Position Sensor/ Switch "A" Circuit Range/Perfor- mance Problem	Throttle position sensor ECM	0	0
P0125 (DI–44)	Insufficient Coolant Temp. for Closed Loop Fuel Control	Open or short in heated oxygen sensor (bank 1 sensor 1) circuit Heated oxygen sensor (bank 1 sensor 1) Air induction system Fuel pressure Injector Gas leakage on exhaust system ECM	0	0
P0130 (DI–49)	Heated Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1) (Except Calif.)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Air induction system EGR system Fuel pressure Injector ECM	0	0
P0133 (DI–53)	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Air induction system EGR system Fuel pressure Injector ECM	0	0
P0135 (DI-56)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)	Open or short in heater circuit of heated oxygen sensor Heated oxygen sensor heater ECM	0	0

P0136 (DI–58)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	Open or short in heated oxygen sensor circuit Heated oxygen sensor	0	0
P0141 (DI–56)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	Same as DTC No. P0135	0	0
P0171 (DI-60)	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 Heated oxygen sensor (bank 1 sensor 1)	0	0
P0172 (DI-60)	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 Heated oxygen sensor (bank 1 sensor 1)	0	0
P0300 (DI-64)	Random/Multiple Cylinder Misfire Detected	Open or short in engine wire Connector connection Vacuum hose connection	0	0
P0301 (DI-64)	Cylinder 1 Misfire Detected	Ignition system Injector		
P0302 (DI-64)	Cylinder 2 Misfire Detected	Fuel pressure EGR system Manifold absolute pressure sensor		
P0303 (DI-64)	Cylinder 3 Misfire Detected	Engine coolant temp. sensor Compression pressure Valve clearance		
P0304 (DI-64)	Cylinder 4 Misfire Detected	Valve timing ECM		
P0325 (DI-71)	Knock Sensor 1 Circuit Malfunction (Bank 1)	Open or short in knock sensor 1 circuit Knock sensor 1 (looseness) ECM	0	0
P0335 (DI-74)	Crankshaft Position Sensor "A" Circuit Malfunction	Open or short in crankshaft position sensor circuit Crankshaft position sensor Signal plate (Timing belt guide) Crankshaft timing pulley ECM	0	0
P0340 (DI–76)	Camshaft Position Sensor Circuit Malfunction	Open or short in camshaft position sensor circuit Camshaft position sensor Camkshaft timing pulley ECM	0	0
P0420 (DI-78)	Catalyst System Efficiency Below Threshold (Bank 1)	Gas leakage on exhaust system Open or short in heated oxygen sensor circuit Heated oxygen sensor Three—way catalytic converter	0	0

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P0440 (DI-81)	Evaporative Emission Control System Malfunction	Hose or tube cracked, hole, damaged or loose seal Fuel tank cap incorrectly installed Fuel tank cap cracked or damaged Vacuum hose cracked, hole, blocked, damaged or disconnected Fuel tank cracked, hole or damaged Charcoal canister cracked, hole or damaged Open or short in vapor pressure sensor circuit Vapor pressure sensor Fuel tank over fill check valve cracked or damaged ECM	0	0
P0441 (DI-87)	Evaporative Emission Control System Incorrect Purge Flow	Vacuum hose cracked, hole, blocked damaged or disconnected 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 vapor pressure sensor VSV for vapor pressure sensor Charcoal canister cracked, hole or damaged Fuel tank over fill check valve cracked or damaged ECM	0	0
P0446 (DI-87)	Evaporative Emission Control System Vent Control Malfunction			
P0450 (DI–104)	Evaporative Emission Control System Pressure Sensor Mal- function	Open or short in vapor pressure sensor circuit Vapor pressure sensor ECM	0	0
P0451 (DI–104)	Evaporative Emission Control System Pressure Sensor Range/ Performance			
P0500 (DI–106)	Vehicle Speed Sensor Malfunction	Combinationmeter Open or short in vehicle speed sensor circuit Vehicle speed sensor ECM	0	0
P0505 (DI-109)	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:} O ··· MIL lights up

MANUFACTURER CONTROLLED:

DTC No. (See Page)	Detection Item	Trouble Area	MIL*1	Memory
P1300 (DI-114)	Igniter Circuit Malfunction (No.1)	Ignition system Open or short in IGF1 and IGT1 circuit from No.1 ignition coil with igniter to ECM No.1 ignition coil with igniter ECM	0	0
P1305 (DI-114)	Igniter Circuit Malfunction (No.2)	Ignition system Open or short in IGF2 and IGT2 circuit from No.2 ignition coil with igniter to ECM No.2 ignition coil with igniter ECM	0	0
P1310 (DI–114)	Igniter Circuit Malfunction (No.3)	Ignition system Open or short in IGF2 and IGT3 circuit from No.3 ignition coil with igniter to ECM No.3 ignition coil with igniter ECM	0	0
P1315 (DI-114)	Igniter Circuit Malfunction (No.4)	Ignition system Open or short in IGF1 and IGT4 circuit from No.4 ignition coil with igniter to ECM No.4 ignition coil with igniter ECM	0	0
P1335 (DI–120)	Crankshaft Position Sensor Circuit Malfunction (During engine running)	Open or short in crankshaft position sensor circuit Crankshaft position sensor Signal plate ECM	0	0
P1346 (DI–121)	VVT Sensor/Camshaft Position Sensor Circuit Range/Perfor- mance Problem (Bank 1)	Mechanical system (Jumping teeth of timing belt, belt stretched) ECM	0	0
P1349 (DI–123)	VVT System Malfunction (Bank 1)	Valve timing OCV VVT controller assembly ECM	0	0
P1520 (DI-130)	Stop Light Switch Signal Mal- function	Short in stop light switch signal circuit Stop light switch ECM	0	0
P1600 (DI-133)	ECM BATT Malfunction	Open in back up power source circuit ECM	0	0
P1645 (DI–135)	Body ECU Malfunction	Body ECU A/C ECU Communication bus	0	0
P1656 (DI-136)	OCV Circuit Malfunction (for VVT-i)	Open or short in OCV circuit OCV for VVT-i ECM	0	0
P1690* ² (DI–139)	OCV Circuit Malfunction (for VVT–L)	Open or short in OCV circuit OCV for VVT-L ECM	0	0
P1692*2 (DI-143)	OCV Open Malfunction (for VVT-L)	Open or short in OCV circuit OCV for VVT-L ECM	0	0

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P1693* ² (DI–143)	OCV Close Malfunction (for VVT-L)	Open or short in OCV circuit OCV for VVT-L ECM	0	0
P1780* ³ (DI-145)	Park/Neutral Position Switch Malfunction	Short in park/neutral position switch circuit Park/neutral position switch ECM	0	0

^{*1:} O ··· MIL lights up

*2: 2ZZ–GE only

*3: A/T only