#### DI37T-04

# 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 the codes 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*	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-32)	Engine Coolant Temp. Circuit Malfunction	Open or short in engine coolant temp. sensor circuit Engine coolant temp. sensor  ECM	0	0
P0116 (DI-36)	Engine Coolant Temp. Circuit Range/PerformanceProblem	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 heated oxygen sensor (bank 1, 2 sensor 1) circuit Heated oxygen sensor (bank 1, 2 sensor 1) Air induction system Fuel pressure Injector Gas leakage on exhaust system ECM	0	0
P0130 (DI-47)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Air induction system Fuel pressure Injector ECM	0	0
P0133 (DI–51)	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	Open or short in heated oxygen sensor circuit Heated oxygen sensor Air induction system Fuel pressure Injector ECM	0	0
P0135 (DI-54)	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-56)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	Open or short in heated oxygen sensor circuit     Heated oxygen sensor	0	0

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Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	Same as DTC No. P0135	0	0
Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 1)	Same as DTC No. P0130	0	0
Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 1)	• Same as DTC No. P0133	0	0
Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)	Same as DTC No. P0135	0	0
System too Lean (Fuel Trim) (Bank 1)	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) ECM	0	0
System too Rich (Fuel Trim) (Bank 1)	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)  ECM	0	0
System too Lean (Fuel Trim) (Bank 2)	Same as the DTC No. P0171	0	0
System too Rich (Fuel Trim) (Bank 2)	Same as the DTC No. P0172	0	0
Random/Multiple Cylinder Misfire Detected  Cylinder 1 Misfire Detected  Cylinder 2 Misfire Detected  Cylinder 3 Misfire Detected  Cylinder 4 Misfire Detected	Open or short in engine wire Connector connection Vacuum hose connection Ignition system Injector Fuel pressure Mass air flow meter Engine coolant temp. sensor Compression pressure Valve clearance Valve timing	0	0
Knock Sensor 1 Circuit Malfunc- tion (Bank 1)	Open or short in knock sensor circuit  Knock sensor (looseness)  ECM	0	0
Crankshaft Position Sensor "A" Circuit Malfunction	Open or short in crankshaft position sensor circuit Crankshaft position sensor Crank angle sensor plate ECM	0	0
Camshaft Position Sensor Cir- cuit Malfunction	Open or short in camshaft position sensor circuit Camshaft position sensor Intake Camshaft	0	0
	Malfunction (Bank 1 Sensor 2) Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 1) Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 1) Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1) Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1) Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)  System too Lean (Fuel Trim) (Bank 1)  System too Lean (Fuel Trim) (Bank 2) Oxygen Sensor Heater Circuit Malfunction (Bank 2) Oxygen Sensor (Fuel Trim) (Bank 2) Oxygen Sensor (Sensor Missire Detected  Cylinder 1 Missire Detected  Cylinder 2 Missire Detected  Cylinder 3 Missire Detected  Cylinder 4 Missire Detected  Cylinder 4 Missire Detected  Cylinder 5 Missire Detected  Cylinder 6 Missire Detected  Cylinder 7 Missire Detected  Cylinder 8 Missire Detected  Cylinder 9 Missire Detected  Cylinder 9 Missire Detected  Cylinder 1 Circuit Malfunction  Camshaft Position Sensor Circuit Malfunction (Bank 1)	- Same as DTC No. P0130 - Same as DTC No. P0130 - Same as DTC No. P0130 - Same as DTC No. P0133 - Same as DTC No. P0135 - Same as DTC No. P0136 - Same as Same as Same as DTC No. P0136 - Same as Same	*Same as DTC No. P0135  Daygen Sensor Circuit Malfunction (Bank 2 Sensor 1)  Daygen Sensor Circuit Slow Response (Bank 2 Sensor 1)  Daygen Sensor Heart Circuit Malfunction (Bank 2 Sensor 1)  *Same as DTC No. P0133  -Same as DTC No. P0135  -Air induction system -Injector blockage -Mass air flow meter -Engine coolant temp. sensor -Upring the same of the

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#### DIAGNOSTICS - ENGINE

P0420 (DI-75)	Catalyst System Efficiency Below Threshold (Bank 1)	Gas leakage on exhaust system     Heated oxygen sensor     Three–way catalytic converter	0	0
P0440 (DI–78)	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  Fuel tank over fill check valve cracked or damaged  ECM	0	0
P0441 (DI-84)	Evaporative Emission Control System Incorrect Purge Flow	Vacuum hose cracked, holed, blocked damaged or disconnected((1), (2), (3), (4), (5), (6), (7), (8), (9), (10) and (11) in Fig.1)  Fuel tank cap incorrectly installed  Fuel tank cap cracked or damaged  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 pressure switching valve  VSV for pressure switching valve  Fuel tank cracked, holed or damaged  Charcoal canister cracked, holed or damaged  Fuel tank over fill check valve cracked or damaged  ECM	0	0
P0446 (DI-84)	Evaporative Emission Control System Vent Control Malfunction	Same as DTC No. P0441	0	0
P0450 (DI-101) P0451 (DI-101)	Evaporative Emission Control System Pressure Sensor Mal- function Evaporative Emission Control System Pressure Sensor Range/	Open or short in vapor pressure sensor circuit Vapor pressure sensor ECM	0	0
P0500 (DI–103)	Performance  Vehicle Speed Sensor Malfunction	Combinationmeter     Open or short in vehicle speed sensor circuit     Vehicle speed sensor     ECM	0	0
P0505 (DI–106)	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

<sup>\*:</sup> O ··· MIL lights up

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## MANUFACTURER CONTROLLED:

DTC No. (See Page)	Detection Item	Trouble Area	MIL*	Memory
P1300 (DI-109)	Igniter Circuit Malfunction (No. 1)	Ignition system     Open or short in IGF and IGT1 circuit from No. 1 ignition coil with igniter to ECM     No. 1 ignition coil with igniter     ECM	0	0
P1305 (DI–109)	Igniter Circuit Malfunction (No. 2)	Ignition system     Open or short in IGF and IGT2 circuit from No. 2 ignition coil with igniter to ECM     No. 2 ignition coil with igniter     ECM	0	0
P1310 (DI–109)	Igniter Circuit Malfunction (No. 3)	Ignition system     Open or short in IGF and IGT3 circuit from No. 3 ignition coil with igniter to ECM     No. 3 ignition coil with igniter     ECM	0	0
P1315 (DI–109)	Igniter Circuit Malfunction (No. 4)	Ignition system     Open or short in IGF and IGT4 circuit from No. 4 ignition coil with igniter to ECM     No. 4 ignition coil with igniter     ECM	0	0
P1335 (DI-115)	Crankshaft Position Sensor Circuit Malfunction (During engine running)	Same as DTC No. P0335	-	0
P1346 (DI-116)	VVT Sensor/Camshaft Position Sensor Circuit Range/Perfor- mance Problem (Bank 1)	Mechanical system (Jumping teeth of timing chain, chain stretched)     ECM	0	0
P1349 (DI–117)	VVT System Malfunction (Bank 1)	Valve timing     OCV     VVT controller assembly     ECM	0	0
P1600 (DI-123)	ECM BATT Malfunction	Open in back up power source circuit  ECM	0	0
P1645 (DI–125)	Body ECU Malfunction	Body ECU     A/C ECU     Vane pump assembly with motor     ABS ECU     Combinationmeter     Air bag sensor assembly     Communication bus	-	-
P1656 (DI-127)	OCV Circuit Malfunction (Bank 1)	Open or short in OCV circuit OCV ECM	0	0

<sup>\*:</sup> O ··· MIL lights up. – ··· MIL does not light up.

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