DIAGNOSTIC TROUBLE CODE CHART

DI63K–04

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 the 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.

ENGINE TROUBLE CODES

(★: Refer to Pub. No. RM588E)

DTC No. (See page)	Detection Item	Trouble Area	*1 CHK ENG	Memory
P0100/31 (DI–21)	Air Flow Meter Circuit Malfunction	• Open or short in Air Flow Meter circuit • Air Flow Meter • Engine ECU	○	○
P0110/24 (DI–30)	Intake Air Temp. Circuit Malfunction	• Open or short in intake air temp. sensor circuit • Intake air temp. sensor • Engine ECU	○	○
P0115/22 (★)	Water Temp. Circuit Malfunction	• Open or short in water temp. sensor circuit • Water temp. sensor • Engine ECU	○	○
P0116/22*3 (DI–31)	Water Temp. Circuit Range/Performance Problem	• Water temp. sensor • Cooling system	○	○
P0120/41 (★)	Throttle Position Sensor Circuit Malfunction	• Open or short in throttle position sensor circuit • Throttle position sensor • Engine ECU	○	○
P0121/41 (★)	Throttle Position Sensor Circuit Range/Performance Problem	• Throttle position sensor	○	○
P0125/91*3 (DI–38)	Insufficient Coolant Temp. for Closed Loop Fuel Control	• Open or short in oxygen sensor (bank 1, 2 sensor 1) circuit • Oxygen Sensor (bank 1, 2 sensor 1) • Air induction system • Fuel pressure • Injector • Gas leakage on exhaust system • Engine ECU	○	○
P0130/21*4 (★)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)	• Open or short in oxygen sensor circuit • Oxygen sensor • Air induction system • Fuel pressure • Injector • Engine ECU	○*3	○
P0133/21*3 (DI–42)	Oxygen Sensor Circuit Slow Response (Bank 1 Sensor 1)	• Open or short in oxygen sensor circuit • Oxygen sensor • Air induction system • Fuel pressure • Injector • Engine ECU	○*3	○
P0135/21*4 (★)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)	• Open or short in heater circuit of oxygen sensor • Oxygen sensor heater • Engine ECU	○*3	○
P0136/27*4 (★)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	• Open or short in oxygen sensor circuit • Oxygen sensor	○*3	○

P0141/21*4 (★)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	• Same as DTC No. P0135/21	○*3	○
P0150/28*4 (★)	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 1)	• Same as DTC No. P0130/21	○*3	○
P0153/28*3 (DI−42)	Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 1)	• Same a DTC No. P0130/21	○*3	○
P0155/28*4 (★)	Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)	• Same as DTC No. P0135/21	○*3	○
P0156/29*4 (★)	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 2)	• Same as DTC No. P0136/27	○*3	○
P0161/28*4 (★)	Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)	• Same as DTC No. P0135/21	○*3	○
P0171/25 (DI−48)	System too Lean (A/F Lean Malfunction, Bank 1)	• Air induction system • Injector blockage • Vacuum Sensor • Water temp. sensor • Fuel pressure • Gas leakage on exhaust system • Open or short in oxygen sensor (bank1, 2 sensor1) circuit • Oxygen sensor (bank1, 2 sensor1) • Engine ECU	○*3	○
P172/26*3 (DI−48)	System too Rich (A/F Rich Malfunction, Bank 1)	• Injector leak, blockage • Vacuum sensor • Water temp. sensor • Ignition system • Fuel pressure • Gas leakage on exhaust system • Open or short in oxygen sensor (bank1, 2 sensor1) circuit • Oxygen sensor (bank1, 2 sensor1) • Engine ECU	○	○
P0174/25 (DI−48)	System too Lean (A/F Lean Malfunction, Bank 2)	• Same as DTC No. P0171/25	○*3	○
P0175/26*3 (DI−48)	System too Rich (A/F Rich Malfunction, Bank 2)	• Same as DTC No. P0172/26	○	○
P0300/93*3 (DI−53)	Random/Multiple Cylinder Misfire Detected		○	○
P0301/93*3 (DI−53)	Cylinder 1 Misfire Detected	• Open or short engine wire • Connector connection • Vacuum hose connection • Ignition system • Injector • Fuel pressure • Vacuum sensor • Water temp. sensor • Compression pressure • Valve clearance • Valve timing • Engine ECU	○	○
P0302/93*3 (DI−53)	Cylinder 2 Misfire Detected			
P0303/93*3 (DI−53)	Cylinder 3 Misfire Detected			
P0304/93*3 (DI−53)	Cylinder 4 Misfire Detected			
P0305/93*3 (DI−53)	Cylinder 5 Misfire Detected			
P0306/93*3 (DI−53)	Cylinder 6 Misfire Detected			
P0325/52 (★)	Knock Sensor 1 Circuit Malfunction (Bank 1)	• Open or short in knock sensor 1 circuit • Knock sensor 1 (looseness) • Engine ECU	○	○

DTC No.	Detection Item	Trouble Area		
P0330/55 (★)	Knock Sensor 2 Circuit Malfunction (Bank 2)	• Open or short in knock sensor 2 circuit • Knock sensor 2 (looseness) • Engine ECU	○	○
P0335/12, 13 (★)	Crankshaft Position Sensor Circuit Malfunction (NE Signal)	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Crankshaft timing pulley • Engine ECU	○	○
P0340/12 (★)	Camshaft Position Sensor Circuit Malfunction (G Signal)	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Intake camshaft • Engine ECU	○	○
P0420/94*3 (DI–56)	Catalyst System Efficiency Below Threshold (Bank 1)	• Gas leakage on exhaust system • Oxygen sensor • Three–way catalytic converter	○	○
P0430/94*3 (DI–56)	Catalyst System Efficiency Below Threshold (Bank 2)	• Same as DTC P0420/94	○	○
P0443/94*3 (DI–60)	Evaporative Emission Control System Purge Control Vent Control Malfunction	• Open or short in VSV circuit for EVAP • VSV for EVAP • Engine ECU	○	○
P0500/42 (★)	Vehicle Speed Sensor Malfunction	• Open or short in vehicle speed sensor circuit • Transmission output speed sensor • Engine ECU	○	○
P0505/33*3 (DI–61)	Idle Control System Malfunction	• Air induction system • Electric throttle control system	○	○
P0550/75 (DI–63)	Power Steering Pressure Sensor Circuit Malfunction	• PS pressure sensor • Engine ECU	○	○
P1120/19 (★)	Accelerator Pedal Position Sensor Circuit Malfunction	• Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • Engine ECU	○	○
P1121/19 (★)	Accelerator Pedal Position Sensor Range/Performance Problem	• Accelerator pedal position sensor	○	○
P1125/89*2 (★)	Throttle Control Motor Circuit Malfunction	• Open or short in throttle control motor circuit • Throttle control motor • Engine ECU	○	○
P1126/89*2 (★)	Magnetic Clutch Circuit Malfunction	• Open or short in magnetic clutch circuit • Magnetic clutch • Engine ECU	○	○
P1127/89*2 (★)	ETCS Actuator Power Source Circuit Malfunction	• Open in ETCS power source circuit • Engine ECU	○	○
P1128/89*2 (★)	Throttle Control Motor Lock Malfunction	• Throttle control motor • Throttle body	○	○
P1129/89*2 (★)	Electric Throttle Control System Malfunction	• Electric throttle control system • Engine ECU	○	○
P1200/78*5 (★)	Fuel Pump Relay/Engine ECU Circuit Malfunction	• Open or short in fuel pump relay circuit • Fuel pump relay • Engine ECU	○	○
P1300/14 (★)	Igniter Circuit Malfunction (No.1)	• Ignition system • Open or short in IGF or IGT1 circuit from igniter to engine ECU • Igniter • Engine ECU	○	○

P1335/13 (★)	Crankshaft Position Sensor Circuit Malfunction (During engine running)	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Crankshaft timing pulley • Engine ECU	–	○
P1346/18 (DI–64)	VVT Sensor/Camshaft Position Sensor Circuit Range/Performance Problem (Bank 1)	• Mechanical system (Jumping teeth of timing belt, belt stretched) • ECM	○	○
P1349/59 (★)	VVT System Malfunction (Bank 1)	• Valve timing • OCV • VVT controller assembly • Engine ECU	○*6	○
P1520 (DI–67)	Stop Light Switch Signal Circuit	• Open or short in stop light switch signal circuit • Stop light switch • Engine ECU	○	○
P1633/89*2 (★)	Engine ECU Malfunction (ETCS Circuit)	• Engine ECU	○	○
P1645/82 (★)	Body ECU Malfunction	• Body ECU • A/C ECU • Communication bus	–	–
P1651/96*3 (DI–67)	VSV for ACIS Circuit Malfunction	• Open or short in VSV circuit for ACIS • VSV for ACIS • Engine ECU	○	○
P1656/39 (★)	OCV Circuit Malfunction (Bank 1)	• Open or short in OCV circuit • OCV • Engine ECU	○	○
P1780/97*2 (DI–261)	Park/Neutral Position Switch Malfunction	• Short in neutral start switch circuit • Neutral start switch • Engine ECU	○	○

*1: ○ ... CHK ENG is indicated. – ... CHK ENG is not indicated.

*2: If the DTC No.89 is indicated on the check engine warning light, read the DTC for ETCS from ECT SNOW indicator to get the detail of the DTC No.89. If using the hand–held tester, the detail DTC for ETCS is displayed on the hand–held tester.

*3: Europe.

*4: Except G.C.C.

*5: Except Europe.

*6: Except Australia.