DI2T0-03

## DIAGNOSTIC TROUBLE CODE CHART

## **ENGINE TROUBLE CODES**

## 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.

- \*1: O • CHECK ENG is indicated.
  - • • CHECK ENG is not indicated.
- \*2: Only LH bank ECU is detected.
- \*3: Only RH bank ECU is detected.
- \*4: Both LH and RH bank ECU are detected.

DTC No. (See Page)	Detection Item	Trouble Area	CHECK ENG*1	Memory
P0100/31*4 (DI-30)	Air Flow Circuit Malfunction	Open or short in air flow meter circuit Air flow meter Engine ECU	0	0
P0110/24*4 (DI-37)	Intake Air Temp. Circuit Malfunction	Open or short in intake air temp. sensor circuit Intake air temp. sensor (inside air flow meter) Engine ECU	-	0
P0115/22*4 (DI-43)	Water Temp. Circuit Malfunction	Open or short in water temp. sensor circuit  Water temp. sensor  Engine ECU	0	0
P0120/41*4 (DI-49)	Throttle Position Sensor Circuit Malfunction	Open or short in throttle position sensor circuit Throttle position sensor Engine ECU	0	0
P0130/21*4 (DI-56)	Oxygen Sensor Circuit Malfunction (Bank 1 (2) Sensor 1)	Oxygen sensor Fuel trim malfunction	-	0
P0135/21*4 (DI-62)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 (2) Sensor 1)	Open or short in heater circuit of oxygen sensor Oxygen sensor heater Engine ECU	-	0
P0136/27*4 (DI-64)	Oxygen Sensor Circuit Malfunction (Bank 1 (2) Sensor 2)	Oxygen sensor	-	0
P0141/21*4 (DI-62)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 (2) Sensor 2)	• Same as DTC No. P0135/21	-	0
P0171/25*4 (DI-66)	Fuel Trim System too Lean	Air intake (hose loose) Fuel line pressure Injector blockage Oxygen sensor (bank1 (2), sensor1) malfunction Air flow meter Water temp. sensor	-	0
P0325/52*4 (DI-70)	Knock Sensor 1 (2) Circuit Malfunction	Open or short in knock sensor 1 (2) circuit Knock sensor 1 (2) looseness Engine ECU	0	0
P0330/55*4 (DI-70)	Knock Sensor 3 (4) Circuit Malfunction	Open or short in knock sensor 2 circuit Knock sensor 3 (4) looseness Engine ECU	0	0

P0335/12, 13*4 (DI-74)	Crankshaft Position Sensor Circuit Malfunction	Open or short in crankshaft position sensor circuit Crankshaft position sensor Starter Engine ECU	0	0
P0340/12*4 (DI-77)	Camshaft Position Sensor Circuit Malfunction	Open or short in camshaft position sensor circuit Camshaft position sensor Starter Engine ECU	0	0
P0500/42*2 (DI-79)	Vehicle Speed Sensor Malfunction	Open or short in vehicle speed sensor circuit Uehicle speed sensor Engine ECU	-	0
P1200/78*3 (DI-101)	Fuel Pump Relay/Engine ECU Circuit Malfunction	Open or short in fuel pump relay circuit. Fuel pump relay Engine ECU	ı	0
P1202/79*4 (DI-104)	Fuel Pump Circuit Malfunction	Fuel pump change relay     Fuel pump     Engine ECU	0	0
P1300/14*4 (DI-106)	Igniter Circuit Malfunction	<ul><li>Open or short in IGF or IGT circuit from igniter to Engine ECU</li><li>Igniter</li><li>Engine ECU</li></ul>	0	0
P1335/12, 13*4 (DI-113)	Crankshaft Position Sensor Circuit Malfunction (during engine running)	Open or short in crankshaft position sensor circuit Crankshaft position sensor Starter Engine ECU	-	0
P1346/18*4 (DI-114)	VVT Sensor Circuit Range/Per- formance Problem	Mechanical system malfunction     (Skipping teeth to timing belt, belt stretched)     Engine ECU	0	0
P1349/59*4 (DI-114)	VVT System Malfunction	Valve timing     Oil control valve     VVT controller assembly     Engine ECU	-	0
P1640/89*4 (DI-122)	Communication Malfunction No.1	Wire harness     Engine ECU	0	0
P1641/89*4 (DI-123)	Communication Malfunction No.2	Wire harness     Engine ECU	0	0
P1645/82*2 (DI-124)	Body ECU Malfunction	Body ECU     A/C ECU     Communication bus	ı	0
P1656/39*4 (DI-124)	OCV Circuit Malfunction (Bank1)	Open or short in oil control valve circuit (bank 1) Oil control valve (bank 1) Engine ECU	0	0
B1300/56*2 (DI-26)	Water Temp. Sensor (For Hydraulic Cooling Fan) Circuit Malfunction	Water Temp. Sensor (for hydraulic cooling fan)     Engine ECU	0	0
B1305/57*2 (DI-28)	Hydraulic Motor Control Solenoid Circuit Malfunction	Hydraulic Motor Gear Pump     Engine ECU	0	0

## ECTS TROUBLE CODES (When not use hand-held tester)

DTC No. (See Page)	Detection Item	Trouble Area	Multi Warning Light	Memory	
P1127/11 (DI-97)	ETCS Actuator Power Source Circuit Malfunction	Throttle relay Engine ECU Wire harness and connector	0	0	
P1127/12 (DI-97)	ETCS Actuator Power Source Circuit Malfunction	Throttle relay Engine ECU Wire harness and connector	0	0	
P1125/21 (DI-88)	Throttle Control Motor Circuit Malfunction	Throttle motor Engine ECU Wire harness and connector	0	0	
P1125/22 (DI-88)	Throttle Control Motor Circuit Malfunction	Throttle motor Wire harness and connector	0	0	
P1125/23 (DI-92)	Throttle Control Motor Circuit Malfunction	Throttle motor Engine ECU Wire harness and connector	0	0	
P1125/24 (DI-94)	Throttle Control Motor Circuit Malfunction	Throttle body Throttle motor Throttle position sensor Wire harness and connector	0	0	
P0120/31 (DI-49)	Throttle Position Sensor Circuit Malfunction	Throttle position sensor  Engine ECU  Wire harness and connector	0	0	
51		Throttle relay	-	0	
P1127/52 (DI-97)	ETCS Actuator Power Source Circuit Malfunction	/52   Circuit Malfunction   • Engine ECU	• Engine ECU	0	0
P1121/91 (DI-82)	Accelerator Position Sensor Range/Performance Problem	Main accelerator sensor     Sub accelerator sensor     Accelerator switch     Engine ECU     Wire harness and connector	0	0	