

DIAGNOSTIC TROUBLE CODE CHART

1. 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.

DTC No. (See Page)	Detection Item	Trouble Area	CHK ENG *1	Memory
P0100/31 (DI-27)	Air Flow Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in air flow meter circuit • Air flow meter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P0110/24 (DI-33)	Intake Air Temp. Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in intake air temp. sensor circuit • Intake air temp. sensor (inside air flow meter) • Engine ECU 	–	<input type="checkbox"/>
P0115/22 (DI-39)	Water Temp. Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in water temp. sensor circuit • Water temp. sensor • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P0120/41 (DI-45)	Throttle Position Sensor Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in throttle position sensor circuit • Throttle position sensor • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P0121/41 (DI-50)	Throttle Position Sensor Circuit Range/Performance Problem	<ul style="list-style-type: none"> • Throttle position sensor • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
*2 P0 130/21 (DI-51)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Oxygen sensor • Fuel trim malfunction 	–	<input type="checkbox"/>
*2 P0 135/21 (DI-57)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)	<ul style="list-style-type: none"> • Open or short in heater circuit of oxygen sensor • Oxygen sensor heater • Engine ECU 	–	<input type="checkbox"/>
*2 P0 136/27 (DI-59)	Oxygen Sensor Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Oxygen sensor 	–	<input type="checkbox"/>
*2 P0 141/21 (DI-51)	Oxygen Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)	<ul style="list-style-type: none"> • Same as DTC No. P0 135/21 	–	<input type="checkbox"/>
*2 P0 150/28 (DI-51)	Oxygen Sensor Circuit Malfunction (Bank 2 Sensor 1)	<ul style="list-style-type: none"> • Same as DTC No. P0 130/21 	–	<input type="checkbox"/>
*2 P0 155/28 (DI-57)	Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)	<ul style="list-style-type: none"> • Same as DTC No. P0 135/21 	–	<input type="checkbox"/>
*2 P0 156/29 (DI-59)	Oxygen Sensor Circuit Malfunc- tion (Bank 2 Sensor 2)	<ul style="list-style-type: none"> • Same as DTC No. P0 136/27 	–	<input type="checkbox"/>
*2 P0 161/28 (DI-57)	Oxygen Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)	<ul style="list-style-type: none"> • Same as DTC No. P0 135/21 	–	<input type="checkbox"/>

*1: ☐ ... Check engine warning light (CHK ENG) light up

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

*2: Only for Europe

DTC No. (See Page)	Detection Item	Trouble Area	CHK ENG *1	Memory
*2 P0 171/25 (DI-61)	Fuel Trim System too Lean (Air-Fuel Ratio Lean Malfunction, Bank 1)	<ul style="list-style-type: none"> • Air intake (hose loose) • Fuel line pressure • Injector blockage 	-	<input type="checkbox"/>
*2 P0 174/25 (DI-61)	Fuel Trim System too Rich (Air-Fuel Ratio Lean Malfunction, Bank 2)	<ul style="list-style-type: none"> • Oxygen sensor malfunction • Air flow meter • Water temp. sensor 	-	<input type="checkbox"/>
P0325/52 (DI-67)	Knock Sensor 1 Circuit Malfunction (Bank 1)	<ul style="list-style-type: none"> • Open or short in knock sensor 1 circuit • Knock sensor 1 (looseness) • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P0330/55 (DI-67)	Knock Sensor 2 Circuit Malfunction (Bank 2)	<ul style="list-style-type: none"> • Open or short in knock sensor 2 circuit • Knock sensor 2 (looseness) • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P0335/12, 13 (DI-72)	Crankshaft Position Sensor Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Starter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P0340/12 (DI-75)	Camshaft Position Sensor Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in camshaft position sensor circuit • Camshaft position sensor • Starter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P0500/42 (DI-77)	Vehicle Speed Sensor Malfunction	<ul style="list-style-type: none"> • Open or short in No. 1 vehicle speed sensor circuit • No. 1 vehicle speed sensor • Combination meter • Engine ECU 	-	<input type="checkbox"/>
P1120/19 (DI-79)	Accelerator Pedal Position Sensor Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1121/19 (DI-84)	Accelerator Pedal Position Sensor Range/Performance Problem	<ul style="list-style-type: none"> • Accelerator pedal position sensor • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1125/89*3 (DI-85)	Throttle Control Motor Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in throttle control motor circuit • Throttle control motor • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1126/89*3 (DI-88)	Magnetic Clutch Circuit Malfunction	<ul style="list-style-type: none"> • Open or short in magnetic clutch circuit • Magnetic clutch • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1127/89*3 (DI-91)	ETCS Actuator Power Source Circuit Malfunction	<ul style="list-style-type: none"> • Open in ETCS power source circuit • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1128/89*3 (DI-93)	Throttle Control Motor Lock Malfunction	<ul style="list-style-type: none"> • Throttle control motor • Throttle body • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1129/89*3 (DI-95)	Electric Throttle Control System Malfunction	<ul style="list-style-type: none"> • Electric throttle control system • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>

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

*2: Only for Europe

*3: If the DTC No.89 is indicated on the instrument panel, read the DTC for ETCS, from 2nd STRT indicator (only for A/T)/ETCS indicator (only for M/T) to get detail of the DTC No.89. If use the hand –held tester, the detail DTC for ETCS are displayed by the hand –held tester

DIAGNOSTICS – ENGINE

DTC No. (See Page)	Detection Item	Trouble Area	CHK ENG *1	Memory
P1200/78 (DI-96)	Fuel Pump Relay/ECU Circuit Malfunction (Europe)	<ul style="list-style-type: none"> • Open or short in fuel pump ECU • Fuel pump ECU • Engine ECU power source • Fuel pump • Engine ECU 	–	<input type="checkbox"/>
P1200/78 (DI-100)	Fuel Pump Relay/ECU Circuit Malfunction (Except Europe)	<ul style="list-style-type: none"> • Open or short in fuel pump relay • Fuel pump relay • Engine ECU 	–	<input type="checkbox"/>
P1300/14 (DI-103)	Igniter Circuit Malfunction (No.1)	<ul style="list-style-type: none"> • Open or short in IGF 1 or IGT 1 circuit from No. 1 ignition coil with igniter to engine ECU • No.1 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1305/15 (DI-103)	Igniter Circuit Malfunction (No.2)	<ul style="list-style-type: none"> • Open or short in IGF2 or IGT2 circuit from No.2 ignition coil with igniter to engine ECU • No.2 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1310/14 (DI-103)	Igniter Circuit Malfunction (No.3)	<ul style="list-style-type: none"> • Open or short in IGF2 or IGT3 circuit from No.3 ignition coil with igniter to engine ECU • No.3 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1315/14 (DI-103)	Igniter Circuit Malfunction (No.4)	<ul style="list-style-type: none"> • Open or short in IGF 1 or IGT4 circuit from No.4 ignition coil with igniter to engine ECU • No.4 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1320/14 (DI-103)	Igniter Circuit Malfunction (No.5)	<ul style="list-style-type: none"> • Open or short in IGF2 or IGT5 circuit from No.5 ignition coil with igniter to engine ECU • No.5 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1325/14 (DI-103)	Igniter Circuit Malfunction (No.6)	<ul style="list-style-type: none"> • Open or short in IGF 1 or IGT6 circuit from No.6 ignition coil with igniter to engine ECU • No.6 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1330/14 (DI-103)	Igniter Circuit Malfunction (No.7)	<ul style="list-style-type: none"> • Open or short in IGF 1 or IGT7 circuit from No.7 ignition coil with igniter to engine ECU • No.7 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1335/13 (DI-110)	Crankshaft Position Sensor Circuit Malfunction (during engine running)	<ul style="list-style-type: none"> • Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Starter • Engine ECU 	–	<input type="checkbox"/>
P1340/14 (DI-103)	Igniter Circuit Malfunction (No.8)	<ul style="list-style-type: none"> • Open or short in IGF2 or IGT8 circuit from No.8 ignition coil with igniter to engine ECU • No.8 ignition coil with igniter • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>
P1633/89*2 (DI-111)	ECU Malfunction (ETCS Circuit)	<ul style="list-style-type: none"> • Engine ECU 	<input type="checkbox"/>	<input type="checkbox"/>

*1: ☐ ... Check engine warning light (CHK ENG) light up

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

*2: If the DTC No.89 is indicated on the instrument panel, read the DTC for ETCS, from 2nd STRT indicator (only for A/T)/ETCS indicator (only for M/T) to get detail of the DTC No.89. If use the hand –held tester, the detail DTC for ETCS are displayed by the hand –held tester

2. ETCS Trouble Codes (When not use hand-held tester)

DTC No. (See Page)	Detection Item	Trouble Area	CHK ENG *1	Memory
21 (DI-85)	Throttle Control Motor Circuit Malfunction	• Same as DTC No. P1125/89	<input type="checkbox"/>	<input type="checkbox"/>
22 (DI-88)	Magnetic Clutch Circuit Malfunction	• Same as DTC No. P1126/89	<input type="checkbox"/>	<input type="checkbox"/>
23 (DI-91)	ETCS Actuator Power Source Circuit Malfunction	• Same as DTC No. P1127/89	<input type="checkbox"/>	<input type="checkbox"/>
31 (DI-93)	Throttle Control Motor Lock Malfunction	• Same as DTC No. P1128/89	<input type="checkbox"/>	<input type="checkbox"/>
32 (DI-95)	Electric Throttle Control System Malfunction	• Same as DTC No. P1129/89	<input type="checkbox"/>	<input type="checkbox"/>
33 (DI-111)	ECU Malfunction (ETCS)	• Same as DTC No. P 1633/89	<input type="checkbox"/>	<input type="checkbox"/>

*1: ☐ ... Check engine warning light (CHK ENG) light up