DI31K–13

DIAGNOSTIC TROUBLE CODE CHART

HINT:

Parameters listed in the chart may not be exactly the same as your readings due to the type of instrument or other factors. If a malfunction code is displayed during the DTC check in check (test) mode, check the circuit for the codes listed in the table below. For details of each code, the refer to the ”See page” under the respective ”DTC No.” in the DTC chart.

DTC No. (See page)	Detection Item	Trouble Area	*1 Check Engine Warning Light (Normal Mode/ Test Mode)	*2 Memory
12 (DI–25)	Engine Speed Sensor Circuit Malfunction (TDC or G1 circuit)	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Camshaft timing pulley • Engine ECU	ON/ON	○
13 (DI–27)	Engine Speed Sensor Circuit Malfunction (NE circuit)	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Crankshaft timing pulley • Engine ECU	ON/ON	○
15 (DI–29)	Throttle Control Motor Circuit Malfunction	• Open or short in throttle control motor circuit • Throttle control motor • Throttle valve • Engine ECU	ON/ON	○
17	IC Circuit Malfunction	• Engine ECU	ON/ON	○
19 (1) (DI–32)	Accelerator Pedal Position Sensor Circuit Malfunction (Open/ Short)	• Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • Engine ECU	ON/ON	○
19 (2) (DI–38)	Accelerator Pedal Position Sensor Circuit Malfunction (IDL Switch/Range)	• Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • Engine ECU	ON/ON	○
22 (DI–40)	Water Temp. Sensor Circuit Malfunction	• Open or short in water temp. sensor circuit • Water temp. sensor • Engine ECU	ON/ON	○
23 (DI–45)	Intake Air Temp. Sensor Circuit Malfunction	• Open or short in intake air temp. sensor circuit • Intake air temp. sensor • Engine ECU	OFF/ON	○
24 (DI–51)	Atmospheric Temp. Sensor Circuit Malfunction	• Open or short in atmospheric temp. sensor circuit • Atmospheric air temp. sensor (built into air flow meter) • Engine ECU	OFF/ON	○
31 (1) (DI–56)	Air Flow Circuit Malfunction	• Open or short in air flow meter circuit • Air flow meter • Engine ECU	ON/ON	○
31 (2) (DI–62)	Turbo Pressure Sensor Circuit Malfunction	• Open or short in turbo pressure sensor circuit • Turbo pressure sensor • Open or short in VSV for turbo pressure sensor circuit • VSV for turbo pressure sensor • Vacuum hose disconnected or blocked • Turbocharger • EGR valve • Air flow meter • Engine ECU	ON/ON	○
32 (DI–71)	Injector Correction Resistance Malfunction	• Open or short in injector correction resistance cuicuit • Injector correction resistance • Engine ECU	OFF/ON	○

DTC No. (See page)	Detection Item	Trouble Area	*1 Check Engine Warning Light (Normal Mode/ Test Mode)	*2 Memory
33 (1) (DI–72)	Exhaust Gas Control System Malfunction	• Open or short in VSV for exhaust gas control valve • Exhaust gas control valve • Engine ECU	ON/ON	○
33 (2) (DI–72)	Exhaust Gas Control System Malfunction	• Exhaust gas control valve • Engine ECU	OFF/ON	○
39 (1) (DI–81)	Fuel Temp. Sensor Circuit Malfunction	• Open or short in fuel temperature sensor circuit • Fuel temperature sensor • Engine ECU	ON/ON	○
39 (2) (DI–81)	Fuel Temp. Too High	• Fuel temperature sensor • Engine ECU	ON/ON	○
42 (DI–86)	Vehicle Speed Sensor Signal Circuit Malfunction	• Open or short in vehicle speed sensor circuit • Vehicle speed sensor • Combination meter • Engine ECU	ON/ON	○
49 (DI–89)	Common Rail Pressure Sensor Circuit Malfunction	• Open or short in fuel pressure sensor circuit for common rail • Fuel pressure sensor for common rail • Engine ECU	ON/ON	○
51 (DI–92)	Stop Light Switch Signal Circuit	• Open or short in fuel pressure sensor circuit for common rail • Stop light switch • Engine ECU	OFF/ON	○
78(3) (DI–100)	Fuel Pump Circuit Malfunction (Over Pressure)	• Short in SCV circuit (SCV – engine ECU) • SCV • Engine ECU	ON/ON	○
78(5) (DI–103)	Fuel Pressure Regulator Circuit Malfunction (Open/short)	• Open or short in fuel pressure limiter circuit • Fuel pressure limiter • Engine ECU	ON/ON	○
78(6) (DI–103)	Fuel Pressure Regulator System Malfunction	• Fuel pressure limiter • Engine ECU	ON/ON	○
78(7) (DI–95)	Fuel Line Malfunction	• Fuel line (supply pump – common rail – injector) • Supply pump • Common rail • Injector • Pressure discharge valve (pressure limiter) • EDU • Engine ECU	ON/ON	○
78(8) (DI–100)	Fuel Pump Circuit Malfunction (Short)	• Wire harness/connector (SCV – engine ECU) • SCV • Engine ECU	ON/ON	○
89	IC Circuit Malfunction	• Engine ECU	ON/ON	○
96 (DI–106)	EGR Valve Position Sensor CIrcuit Malfunction	• Open or short in EGR valve lift sensor circuit • EGR valve lift sensor • Engine ECU	OFF/ON	○

97 (DI–108)	EDU Circuit Malfunction	• Open or short in EDU circuit • EDU • Open or short in SCV circuit • SCV • Injector • Engine ECU	ON/ON	○
99	Engine Immobilizer System Malfunction	• Engine Immobilizer System • Engine ECU	OFF/ON	○

*1: ”ON” displayed in the diagnosis mode column indicates that the check engine warning light is lighted up when a malfunction is detected.
*2: ”○” in the memory column indicates that a DTC code is recorded in the engine ECU memory when a malfunction occurs.