DI31K–02

DIAGNOSTIC TROUBLE CODE CHART

HINT:

Parameters listed in the chart may not be exactly the same as you reading 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 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	*1 Check Engine Warning Light (Normal Mode/ Test Mode)	*2 Memory
12 (DI–21)	Crankshaft Position Sensor Circuit Malfunction	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Engine ECU	ON/ON	○
13 (DI–23)	Engine Speed Sensor Circuit Malfunction	• Open or short in engine speed sensor circuit • Engine speed sensor • Open or short in STA circuit • Engine ECU	ON/ON	○
14 (DI–24)	Timing Control System Malfunction	• Open or short in timing control valve circuit • Fuel filter (Clogging) • Fuel (Freezing, Air in) • Injection pump (Internal pressure and timing control valve) • Engine ECU	ON/N.A.	○
17	Interior IC Malfunction	• Engine ECU	ON/N.A.	○
19(1) (DI–27)	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–34)	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/N.A.	○
19(3) (DI–39)	Accelerator Pedal Closed Position Switch Circuit Malfunction (Short)	• Short in accelerator pedal closed position switch circuit • Accelerator pedal closed position switch • Engine ECU	ON/N.A.	○
19(4) (DI–39)	Accelerator Pedal Closed Position Switch Circuit Malfunction (Open)	• Open in accelerator pedal closed position switch circuit • Accelerator pedal closed position switch • Engine ECU	ON/N.A.	○
22 (DI–41)	Water Temp. Sensor Circuit Malfunction	• Open or short in water temp. sensor circuit • Water temp. sensor • Engine ECU	ON/ON	○

*1: "ON" displayed in the diagnosis mode column indicates that the check engine warning light is lighted up when a malfunction is detected. "N.A." indicates that the item is not included in malfunction diagnosis.

*2: "○" in the memory column indicates that a diagnostic trouble code is recorded in the engine ECU memory when a malfunction occurs. Accordingly, output of diagnostic results in normal or test mode is done with the IG switch ON.

DTC No. (See Page)	Detection Item	Trouble Area	*1 Check Engine Warning Light (Normal Mode/ Test Mode)	*2 Memory
24 (DI–46)	Intake Air Temp. Sensor Circuit Malfunction	• Open or short in intake air temp. sensor circuit • Intake air temp. sensor • Engine ECU	OFF/ON	○
32 (DI–52)	Injection Pump System Malfunction	• Open or short in injection pump correction unit cuicuit • Injection pump correction unit • Engine ECU	OFF/N.A.	○
33 (DI–54)	Intake Shutter Control Circuit Malfunction	• Open or short in VSV for intake shutter circuit • VSV for intake shutter • Engine ECU	ON/N.A.	○
35 (DI–56)	Turbo Pressure Sensor Circuit Malfunction	• Open or short in turbo pressure sensor circuit • Turbo pressure sensor • Engine ECU	ON/ON	○
39 (DI–64)	Fuel Temp. Sensor Circuit Malfunction	• Open or short in fuel temp. sensor circuit • Fuel pressure sensor • Engine ECU	ON/ON	○
42 (DI–69)	Vehicle Speed Sensor Signal Circuit Malfunction	• Open or short in vehicle speed sensor circuit • Vehicle speed sensor • Combination meter • Engine ECU	ON/ON	○
89	Interior IC Malfunction	• Engine ECU	ON/N.A.	○
97 (DI–71)	EDU Circuit Malfunction	• Open or short in EDU circuit • Spill control valve • EDU	ON/N.A.	○
*3 99	Engine Immobilizer System Malfunction	• Open or short in engine immobilizer system circuit • Transponder key amplifier • Transponder key computer • Transponder key coil • Engine ECU	OFF/N.A.	○

*1: ”ON” displayed in the diagnosis mode column indicates that the check engine warning light is lighted up when a malfunction is detected. ”OFF” indicates that the ”CHECK ENGINE” does not light up during malfunction diagnosis, even if a malfunction is detected. ”N.A.” indicates that the item is not included in malfunction diagnosis.

*2: ”○” in the memory column indicates that a diagnostic trouble code is recorded in the engine ECU memory when a malfunction occurs. Accordingly, output of diagnostic results in normal or test mode is done with the IG switch ON.

*3: See Pub. No. RM616E1 BE section.