057FC–02

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 the check mode, check the circuit for the codes listed in the chart below. For details of each code, refer to the ”See page ” under the respective ”DTC No.” in the DTC chart.

DTC No. (See Page)	Detection Item	Trouble Area	Check Engine Warning Light *1	*2 Memory
12 (05–121)	Engine Speed Sensor Circuit Malfunction1 (TDC or G1 circuit)	• Open or short in camshaft position sensor circuit • Camshaft position sensor • Camshaft timing pulley • ECM	○	○
13 (05–124)	Engine Speed Sensor Circuit Malfunction2 (NE circuit)	• Open or short in crankshaft position sensor circuit • Crankshaft position sensor • Crank angle sensor plate • ECM	○	○
17 (05–127)	Interior IC Malfunction	• ECM	○	○
19 (1) (05–128)	Accel. Position Sensor Circuit (Open/Short)	• Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM	○	○
19 (2) (05–132)	Accel. Position Sensor Circuit (IDL SW/Range)	• Open or short in accelerator pedal position sensor circuit • Accelerator pedal position sensor • ECM	○	○
19 (3) (05–135)	Accel. Closed Position SW Circuit (Short)	• Short in accelerator closed position switch circuit • Accelerator closed position switch • ECM	○	○
19 (4) (05–135)	Accel. Closed Position SW Circuit (Open)	• Open in accelerator closed position switch circuit • Accelerator closed position switch • ECM	○	○
22 (05–136)	Water Temperature Sensor Circuit Malfunction	• Open or short in engine coolant temp. sensor circuit • Engine coolant temp. sensor • ECM	○	○
28 (05–139)	Solenoid for Exhaust Brake Circuit Malfunction	• Exhaust brake solenoid circuit • Exhaust brake solenoid • Exhaust brake system • ECM	–	○
32 (05–141)	Injection pump System Malfunction	• Supply pump correction resister • Wire harness • ECM	○	○
35 (05–143)	Turbo Pressure Sensor Circuit Malfunction	• Open or short in turbo pressure sensor circuit • Turbo pressure sensor • Turbocharger • ECM	○	○
39 (05–148)	Fuel Temperature Too High	• Open or short in fuel temperature sensor circuit • Fuel temperature sensor • ECM	○	○
42 (05–151)	Vehicle Speed Sensor Signal Circuit Malfunction	• Open or short in vehicle speed sensor circuit • Vehicle speed sensor • Combination meter • ECM	○	○
49 (05–154)	Common Rail Pressure Sensor Circuit Malfunction	• Open or short in fuel pressure sensor circuit for common rail • Fuel pressure sensor (built in common rail) • ECM	○	○

78 (1) (05–156)	Fuel Line Malfunction	• Leak in high pressure fuel line • Stuck in fuel supply line • Supply pump	○	○
78 (2) (05–157)	Fuel Pump System Malfunction (Short)	• Short in PCV2 circuit • PCV2 (built in supply pump) • ECM	○	○
78 (3) (05–163)	Fuel Pump System Malfunction (Over Pressure)	• Open or short in fuel pressure sensor circuit • Fuel pressure sensor • Engine speed sensor • Supply pump • Injection timing • ECM	○	○
78 (4) (05–163)	Fuel Pump System Malfunction (Short)	• Short in PCV1 circuit • PCV1 (built in supply pump) • ECM	○	○
79 (1) (05–165)	Fuel Control Cylinder Balance System Malfunction (Cylinder 1)	• Fuel pipe (for common rail injector) • Injector • Flow damper (on common rail) • ECM	–	○
79 (2) (05–165)	Fuel Control Cylinder Balance System Malfunction (Cylinder 2)			
79 (3) (05–165)	Fuel Control Cylinder Balance System Malfunction (Cylinder 3)			
79 (4) (05–163)	Fuel Control Cylinder Balance System Malfunction (Cylinder 4)			
81 (05–167)	Fuel Pump System Malfunction (No Pressure/Activate Pressure Limiter)	• Fuel relief valve (on common rail) • Supply pump	○	○
82 (05–168)	Engine Overrun	• Open or short in SCV circuit • SCV (built in supply pump) • Fuel relief valve (built in common rail) • Supply pump • ECM	○	○
83 (05–154)	Common Rail System Malfunction	• Open or short in fuel pressure sensor circuit for common rail • Fuel pressure sensor (built in common rail) • ECM	○	○
84 (05–169)	Common Rail System Malfunction (Pressure does not change)	• Fuel pressure sensor circuit • Fuel pressure sensor • ECM	○	○
85 (05–171)	PCV Relay Circuit Malfunction	• Open or short in PCV relay circuit • PCV relay • ECM	○	○
86 (1) (05–172)	Injector Circuit Malfunction (Cylinder 1)	• Open or short in injector circuit • Injector (Cylinder 1) • Wire harness • ECM	○	○
86 (2) (05–172)	Injector Circuit Malfunction (Cylinder 2)	• Open or short in injector circuit • Injector (Cylinder 2) • Wire harness • ECM	○	○
86 (3) (05–172)	Injector Circuit Malfunction (Cylinder 3)	• Open or short in injector circuit • Injector (Cylinder 3) • Wire harness • ECM	○	○
86 (4) (05–172)	Injector Circuit Malfunction (Cylinder 4)	• Open or short in injector circuit • Injector (Cylinder 4) • Wire harness • ECM	○	○
86 (5) (05–176)	Injector Circuit Malfunction (Short)	• Open or short in injector circuit • (No. 1) • ECM	○	○

86 (6) (05–176)	Injector Circuit Malfunction (Short)	• Open or short in injector circuit • (No. 2) • ECM	○	○
92 (05–180)	Engine Stop Switch Circuit Malfunction	• Short in engine stop switch circuit • Engine Stop Switch • Wire Harness • ECM	○	○

*1: "○" displayed in the check engine warning light column indicates that the check engine warning light is lights up when a malfunction is detected.
*2: "○" in the memory column indicates that a DTC code is recorded in the ECM memory when a malfunction occurs. Accordingly, diagnostic results in the normal or test mode is output with the ignition switch ON.