DI75Q–01

CIRCUIT INSPECTION

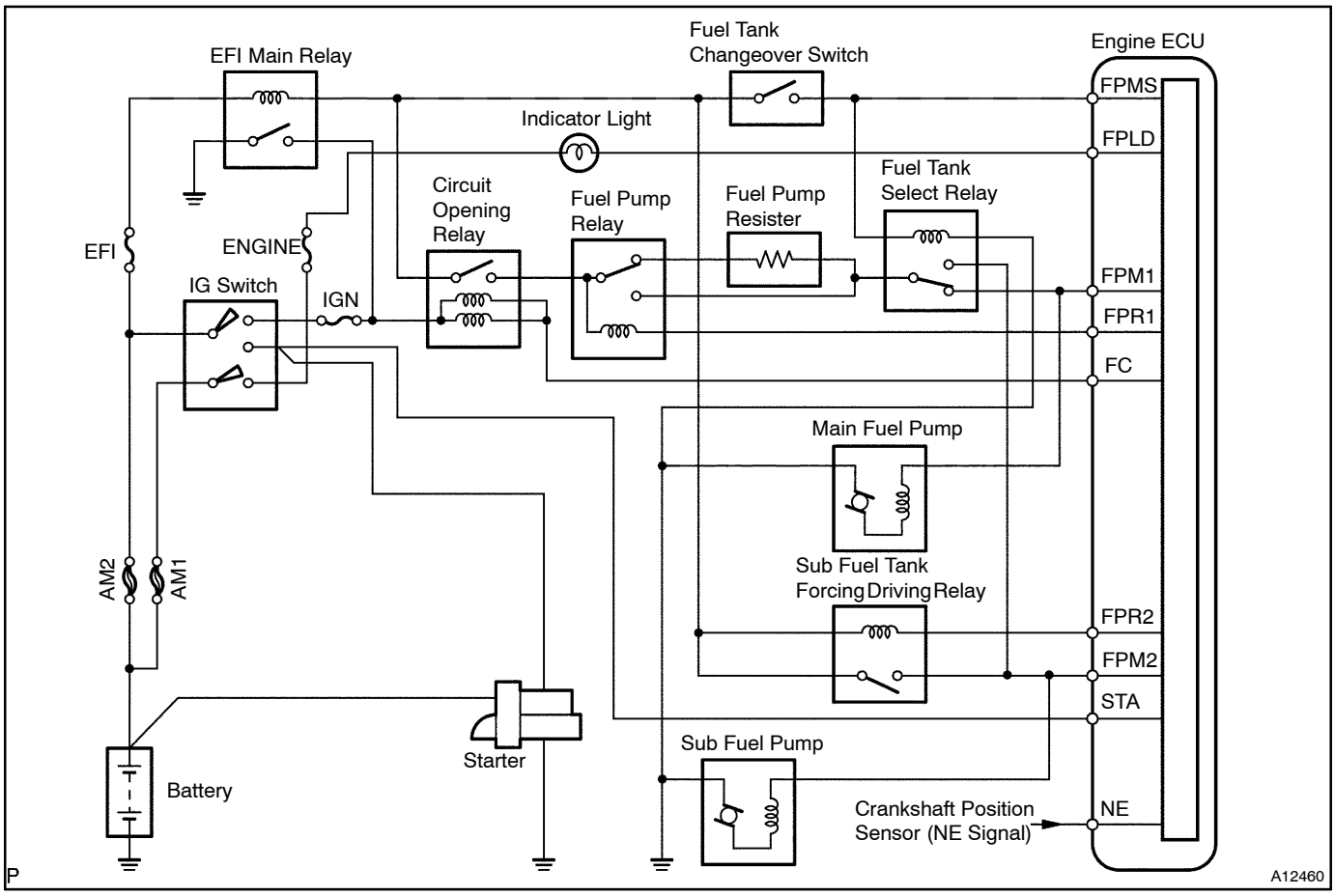
DTC	11	Main Fuel Pump Circuit Malfunction (Fuel Tank Changeover Switch OFF)

CIRCUIT DESCRIPTION

When the STA signal and NE signal are input to the engine ECU, Tr1 is turned ON, current flows to coil of the circuit opening relay, relay switches on, power is supplied to the fuel pump via a fuel tank select relay and the fuel pump operates.

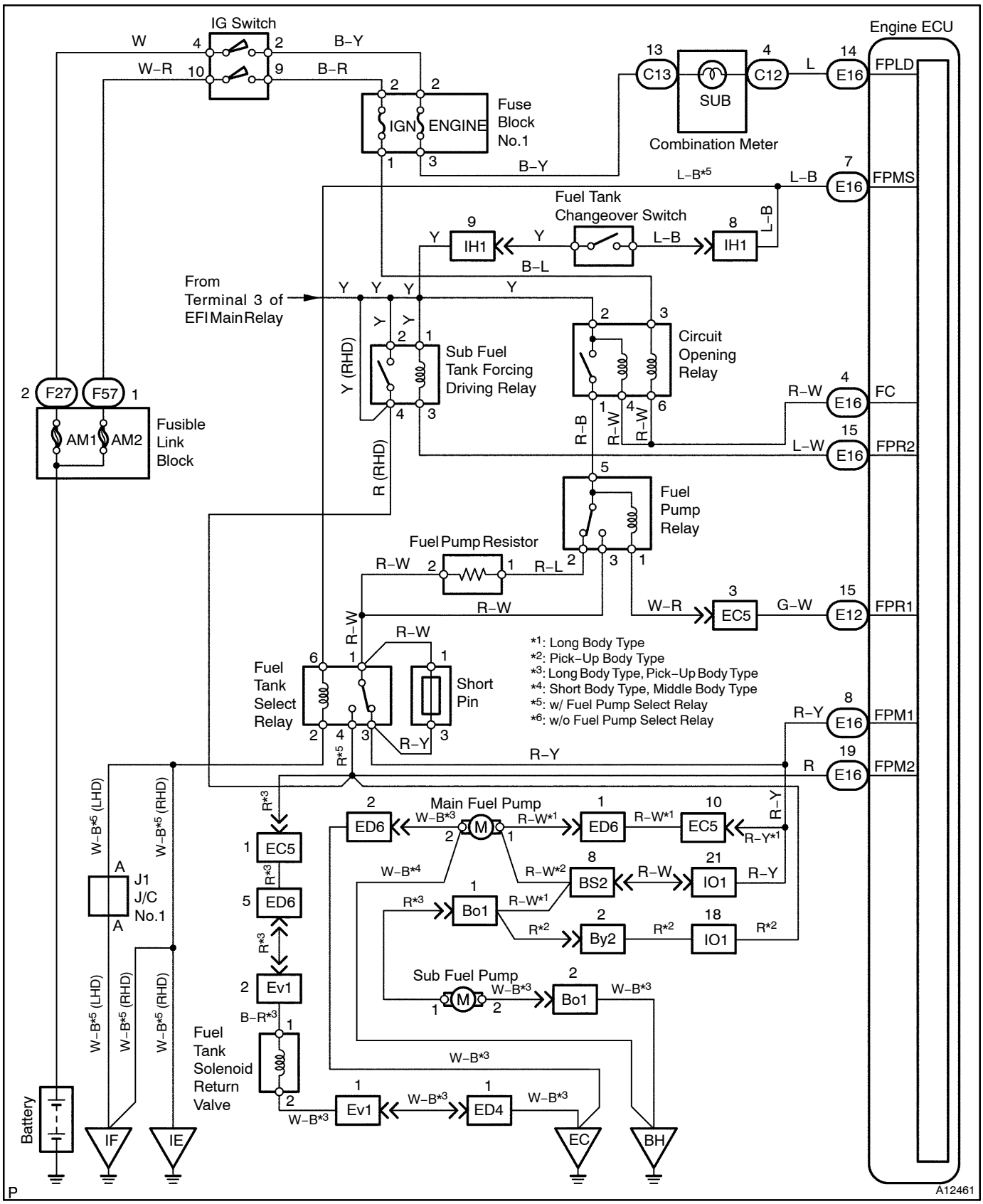
When the fuel tank changeover switch is OFF, the fuel tank select relay point contacts with the main fuel pump side, power is supplied to the main fuel pump and the main fuel pump operates.

When the fuel tank changeover switch is ON, current flows to coil of the fuel tank select relay, relay point contacts with the sub fuel pump side, power supplied to the sub fuel pump and the sub fuel pump operates.



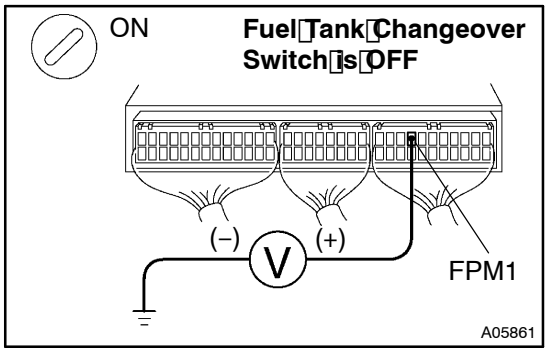
DTC No.	DTC Detection Condition	Trouble Area
11	Conditions (a), (b) and (c) continue: (a) Fuel tank changeover switch OFF (Voltage of FPMS terminal is low) (b) Voltage of FPM1 terminal is low (c) Voltage of FPM2 terminal is low	• Open or short in main fuel pump circuit • Main fuel pump • Fuel tank select relay • Fuel pump relay • Circuit opening relay • Engine ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	Check voltage between terminal FPM1 of engine ECU connector and body ground.



PREPARATION:
(a) Remove the glove compartment (See page IN–19).
(b) Turn the ignition switch ON.
(c) The fuel tank changeover switch is OFF.

CHECK:
Measure the voltage between terminal FPM1 of the engine ECU connector and body ground.

OK:
Voltage: 9 – 14 V

OK	Go to step 5.

NG

2	Check fuel tank select relay (See page FI–46).

NG	Replace fuel tank select relay.

OK

3	Check fuel pump relay (See page FI–44).

NG	Replace fuel pump relay.

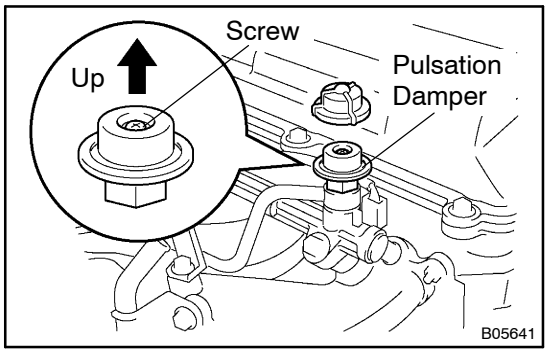
OK

4	Check circuit opening relay (See page FI–42).

NG	Replace circuit opening relay.

OK

5	Check operation of main fuel pump.



PREPARATION:

(a) Connect the hand–held tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Fuel tank changeover switch is OFF.
(d) Select the ACTIVE TEST mode.

CHECK:

Check the main fuel pump operation when it is operated by hand–held tester.

OK:

Here a main fuel pump operation noise

HINT:

If you have no hand–held tester, and then go to step 6.

OK	Go to step 8.

NG

6	Check main fuel pump (See page FI–6).

NG	Replace main fuel pump.

OK

7	Check for open or short in harness and connector between main fuel pump and fuel tank select relay, fuel tank select relay and fuel pump relay, and fuel pump relay and circuit opening relay (See page IN–19).

NG	Repair or replace.

OK

8	Check for open and short in harness and connector between fuel tank select relay and engine ECU (See page IN–19).

NG	Repair or replace harness and connector.

OK

Check and replace engine ECU (See page IN-19).