

DTC	42	Both Fuel Pump Simultaneous Operation Malfunction (*)
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***: Fuel Tank Changeover Switch ON**

CIRCUIT DESCRIPTION

Refer to DTC 11 (Main Fuel Pump Circuit Malfunction) on [page DI-108](#).

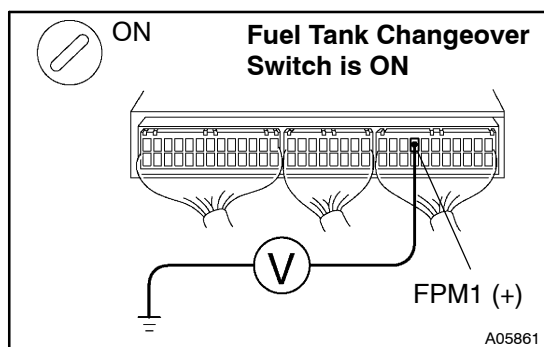
DTC No.	DTC Detecting Item	Trouble Area
42	Conditions (a), (b) and (c) continue: (a) Fuel tank changeover switch ON (Voltage of FPMS terminal is high) (b) Voltage of FPM1 terminal is high (c) Voltage of FPM2 terminal is high	• Short in main fuel pump circuit (+B short) • Open or short in fuel tank select relay circuit • Fuel tank select relay • Short in sub fuel tank forcing driving relay circuit • Sub fuel tank forcing driving relay • Short in sub fuel pump circuit (+B short)

WIRING DIAGRAM

Refer to DTC 11 (Main Fuel Pump Circuit Malfunction) on [page DI-108](#).

INSPECTION PROCEDURE

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

- Remove the glove compartment door.
- Turn the ignition switch ON.
- Push the fuel tank changeover switch ON.

CHECK:

Measure voltage between terminal FPM1 of engine ECU and body ground, turn the ignition switch ON after 4 seconds or more.

OK:

Voltage: 0 – 3.0 V

OK

Go to step 4.

NG

2 Check fuel tank select relay ([See page FI-49](#)).

NG

Replace fuel tank select relay, and then go to step 4.

OK

3 Check for open and short in harness and connector between fuel tank change-over switch and fuel tank select relay, fuel tank select relay and body ground ([See page IN-19](#)).

NG

Repair or replace harness and connector, and then go to step 4.

OK

4 Check for short in harness and connector between fuel tank select relay and engine ECU, fuel tank select relay and main fuel pump (+B short circuit) ([See page IN-19](#)).

NG

Repair or replace harness and connector.

OK

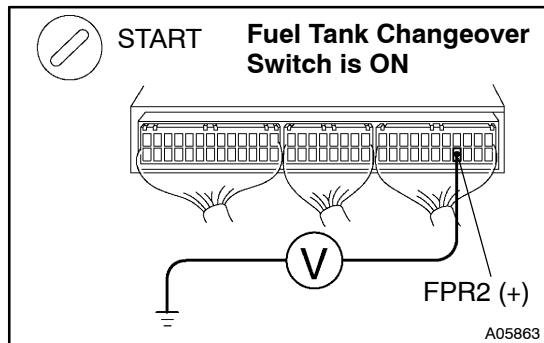
5 Check sub fuel tank forcing driving relay ([See page FI-52](#)).

NG

Replace sub fuel tank forcing driving relay.

OK

- 6 Check voltage between terminal FPR2 of engine ECU connector and body ground.**

**PREPARATION:**

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch to START.
- (c) Push the fuel tank changeover switch ON.

CHECK:

Measure voltage between terminal FPR2 of engine ECU connector and body ground, 4 seconds or more after starting the engine.

OK:

Voltage: 9 – 14 V

NG

Go to step 7.

OK

Check and repair harness and connector between sub fuel pump and sub fuel tank forcing driving relay (+B short circuit) (See page IN-19).

- 7 Check for short in harness and connector between sub fuel tank forcing driving relay and engine ECU (See page IN-19).**

NG

Repair or replace.

OK

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