

<b>DTC</b>	<b>42</b>	<b>Both Fuel Pump Simultaneous Operation Malfunction (*)</b>
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**\*: Fuel Tank Changeover Switch ON**

## CIRCUIT DESCRIPTION

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

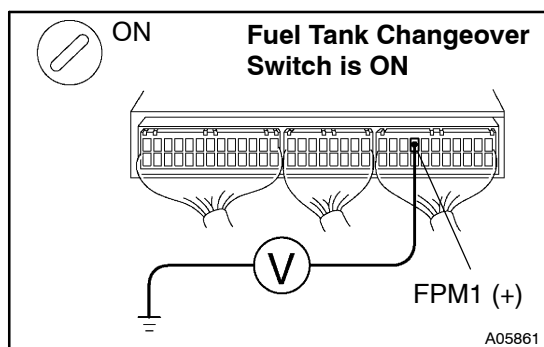
DTC No.	DTC Detecting Item	Trouble Area
42	Conditions (a), (b) and (c) continue: (a) Fuel tank changeover switch ON (Voltage of FPMS terminal is high) (b) Voltage of FPM1 terminal is high (c) Voltage of FPM2 terminal is high	<ul style="list-style-type: none"> <li>• Short in main fuel pump circuit (+B short)</li> <li>• Open or short in fuel tank select relay circuit</li> <li>• Fuel tank select relay</li> <li>• Short in sub fuel tank forcing driving relay circuit</li> <li>• Sub fuel tank forcing driving relay</li> <li>• Short in sub fuel pump circuit (+B short)</li> </ul>

## WIRING DIAGRAM

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

## INSPECTION PROCEDURE

<b>1</b>	<b>Check voltage between terminal FPM 1 of engine ECU connector and body ground.</b>
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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 – 3.0V**

**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

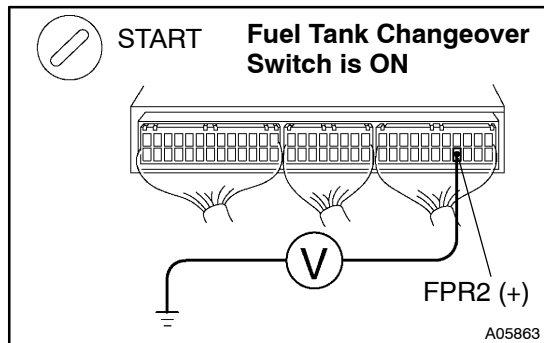
**5** Check sub fuel tank forcing driving relay ([See page FI-52](#)).

NG

Replace sub fuel tank forcing driving relay.

OK

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

**PREPARATION:**

- Remove the glove compartment door.
- Turn the ignition switch to START.
- 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).**