DTC	42	Both Fuel Pump Simultaneous Operation Malfunction*

*: Fuel Tank Changeover Switch ON

CIRCUIT DESCRIPTION

Refer to DTC 11 on page DI–90.

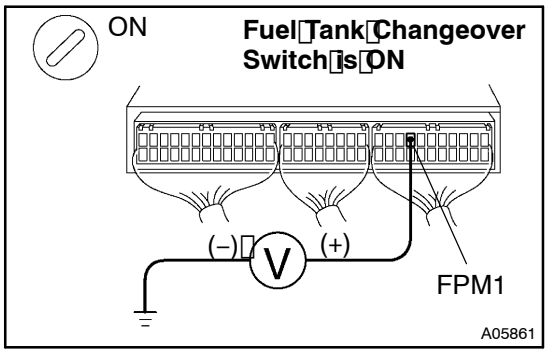
DTC No.	DTC Detection Condition	Trouble Area
42	Conditions (a), (b) and (c) continue: (a) Fuel tank changeover switch ON (Voltage of FPMS terminal is high) (b) Voltage of FPM1 terminal is high (c) Voltage of FPM2 terminal is high	• Short in main fuel pump circuit (+B short) • Open or short in fuel tank 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) • Engine ECU

WIRING DIAGRAM

Refer to DTC 11 on page DI–90.

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) Push the fuel tank changeover switch ON.

CHECK:

Turn the ignition switch ON, and after 4 seconds or more, measure the voltage between terminal FPM2 of the engine ECU connector and body ground.

OK:

Voltage: 0 – 3.0 V

OK	Go to step 4.

NG

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

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, and fuel tank select relay and body ground (See page IN–19).

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

OK

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

NG → Repair or replace harness or connector.

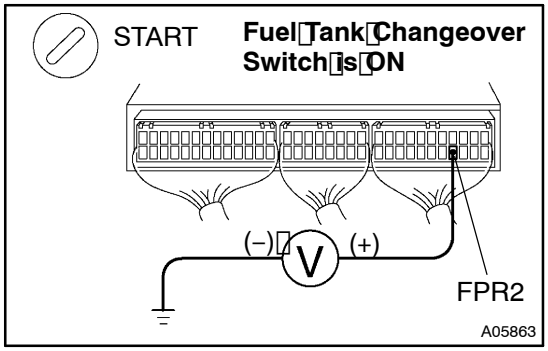
OK

5	Check sub fuel tank forcing driving relay (See page FI–48).

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 (See page IN–19).
(b) Turn the ignition switch to START.
(c) Push the fuel tank changeover switch ON.

CHECK:

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

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).