

DTC	42	Fuel Tank Select Relay Circuit Malfunction
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CIRCUIT DESCRIPTION

Refer to DTC 11 (Main Fuel Pump Circuit Malfunction) on [page DI-138](#).

DTC No.	DTC Detecting 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 FPM terminal is high (c) Voltage of FPMR terminal is low	<ul style="list-style-type: none"> • Open or short in fuel tank select relay circuit • Fuel tank select relay • Open or short in sub fuel pump circuit • Sub fuel pump • Short in main fuel pump circuit (+B short)

WIRING DIAGRAM

Refer to DTC 11 (Main Fuel Pump Circuit Malfunction) on [page DI-138](#).

INSPECTION PROCEDURE

1	Check fuel tank select relay (See page FI-56).
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Replace fuel tank select relay.

OK

2	Check voltage between terminal FPMR of engine ECU connector and body ground (See page DI-152, step 1).
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OK

Go to step 4.

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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).
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Repair or replace harness and connector, and then go to step 8.

OK

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| 4 | Check operation of sub fuel pump (See page DI-152 , step 5). |
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HINT:

If you have no hand –held tester, and then go to step 5.

OK

Go to step 7.

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| 5 | Check sub fuel pump (See page FI-16). |
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Replace sub fuel pump, and then go to step 8.

OK

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| 6 | Check for open or short in harness and connector between sub fuel pump and fuel tank select relay (See page IN-19). |
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Repair or replace, and then go to step 8.

OK

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| 7 | Check for open and short in harness and connector between fuel tank select relay and engine ECU, sub fuel tank forcing driving relay and engine ECU (See page IN-19). |
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Repair or replace, and then go to step 8.

OK

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| 8 | Check for short in harness and connector between main fuel pump and fuel tank select relay (+B short circuit) (See page IN-19). |
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Repair or replace harness and connector.

OK

**Check and replace engine ECU
([See page IN-19](#)).**