

|            |           |                                                   |
|------------|-----------|---------------------------------------------------|
| <b>DTC</b> | <b>42</b> | <b>Fuel Tank Select Relay Circuit Malfunction</b> |
|------------|-----------|---------------------------------------------------|

## 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:<br>(a) Fuel tank changeover switch ON<br>(Voltage of FPMS terminal is high)<br>(b) Voltage of FPM terminal is high<br>(c) Voltage of FPMR terminal is low | <ul style="list-style-type: none"> <li>• Open or short in fuel tank select relay circuit</li> <li>• Fuel tank select relay</li> <li>• Open or short in sub fuel pump circuit</li> <li>• Sub fuel pump</li> <li>• Short in main fuel pump circuit (+B short)</li> </ul> |

## WIRING DIAGRAM

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

## INSPECTION PROCEDURE

|          |                                                                       |
|----------|-----------------------------------------------------------------------|
| <b>1</b> | <b>Check fuel tank select relay (<a href="#">See page FI-56</a>).</b> |
|----------|-----------------------------------------------------------------------|

NG

Replace fuel tank select relay.

OK

|          |                                                                                                                               |
|----------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>2</b> | <b>Check voltage between terminal FPMR of engine ECU connector and body ground (<a href="#">See page DI-152</a>, step 1).</b> |
|----------|-------------------------------------------------------------------------------------------------------------------------------|

OK

Go to step 4.

NG

|          |                                                                                                                                                                                                    |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3</b> | <b>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 (<a href="#">See page IN-19</a>).</b> |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NG

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

OK

- |   |                                                                    |
|---|--------------------------------------------------------------------|
| 4 | <b>Check operation of sub fuel pump (See page DI-152, step 5).</b> |
|---|--------------------------------------------------------------------|

HINT:

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

OK

Go to step 7.

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- |   |                                              |
|---|----------------------------------------------|
| 5 | <b>Check sub fuel pump (See page FI-16).</b> |
|---|----------------------------------------------|

NG

Replace sub fuel pump, and then go to step 8.

OK

- |   |                                                                                                                            |
|---|----------------------------------------------------------------------------------------------------------------------------|
| 6 | <b>Check for open or short in harness and connector between sub fuel pump and fuel tank select relay (See page IN-19).</b> |
|---|----------------------------------------------------------------------------------------------------------------------------|

NG

Repair or replace, and then go to step 8.

OK

- |   |                                                                                                                                                                              |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7 | <b>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).</b> |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NG

Repair or replace, and then go to step 8.

OK

- |          |                                                                                                                                                        |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8</b> | <b>Check for short in harness and connector between main fuel pump and fuel tank select relay (+B short circuit) (<a href="#">See page IN-19</a>).</b> |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

**NG**

**Repair or replace harness and connector.**

**OK**

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