

|            |           |                                                                                        |
|------------|-----------|----------------------------------------------------------------------------------------|
| <b>DTC</b> | <b>41</b> | <b>Fuel Tank Select Relay Circuit Malfunction<br/>(Fuel Tank Changeover Switch ON)</b> |
|------------|-----------|----------------------------------------------------------------------------------------|

## CIRCUIT DESCRIPTION

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

| DTC No. | DTC Detecting Condition                                                                                                                                                                          | Trouble Area                                                                                                                                                                                                                                                           |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 41      | Conditions (a), (b) and (c) continue:<br>(a) Fuel tank changeover switch ON<br>(Voltage of FPMS terminal is high)<br>(b) Voltage of FPM1 terminal is high<br>(c) Voltage of FPM2 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-108](#).

## INSPECTION PROCEDURE

|          |                                                                       |
|----------|-----------------------------------------------------------------------|
| <b>1</b> | <b>Check fuel tank select relay (<a href="#">See page FI-49</a>).</b> |
|----------|-----------------------------------------------------------------------|

NG

Replace fuel tank select relay.

OK

|          |                                                                                                                               |
|----------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>2</b> | <b>Check voltage between terminal FPM2 of engine ECU connector and body ground (<a href="#">See page DI-122</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 | Check operation of sub fuel pump ( <a href="#">See page DI-122, step 5</a> ). |
|---|-------------------------------------------------------------------------------|

HINT:

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

OK

Go to step 7.

NG

- |   |                                                         |
|---|---------------------------------------------------------|
| 5 | Check sub fuel pump ( <a href="#">See page FI-16</a> ). |
|---|---------------------------------------------------------|

NG

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

OK

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

NG

Repair or replace, and then go to step 8.

OK

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

NG

Repair or replace, and then go to step 8.

OK

8

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

NG

Repair or replace harness and connector.

OK

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