DI3ME-03

DTC 12 Fuel Tank Select Relay Malfunction

# **CIRCUIT** DESCRIPTION

Refer[]o[DTC 11[[Main[Fuel[Pump[Circuit[Malfunction)]]on[]page[DI-10]8.

DTC[No.	DTC[Detecting[Condition	Trouble <b>[</b> Area
12	Conditions[a],[b]@and[c)@ontinue:  (a)[Fuel[]ank@hangeover[switch[OFF (Voltage[of[FPMS[]erminal[]s[]ow)  (b)[Voltage[of[FPM1[]erminal[]s[]ow  (c)[Voltage[of[FPM2[]erminal[]s[]high	Fuel[ank[\$elect[relay Dentor[short]n[main[fuel[bumptercuit Main[fuel[bump Fuel[bump]]elay Circuit[bpening[felay Short[n[\$ub[fuel[]ank[forcing[driving[felay[trcuit Sub[fuel[]ank[forcing[driving[felay]]elay Short[n[\$ub[fuel[]bump[tercuit]]+B[\$hort)

## **WIRING DIAGRAM**

Refer[10]DTC 11[(Main[Fuel[Pump[Circuit[Malfunction)]pn[page[DI-10]8.

### **INSPECTION PROCEDURE**

1 Check[fuel[tank[select[relay[(See[page[FI-49).

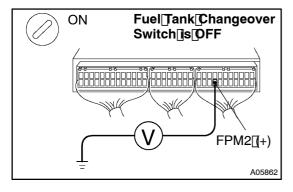
NG

Replace fuel tank select relay.

ΟK

2

Check voltage between terminal FPM2 of engine ECU connector and body ground.



### **PREPARATION:**

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.
- (c) Fuel tank changeover switch is OFF.

#### **CHECK:**

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

OK:

Voltage: 0 - 3.0 V

OK Go to step 5.

NG

3[]	Check[sub[fuel[fank[forcing[driving[relay[(See[page[FI-52).
	NG Replace sub fuel fank forcing driving relay, and then go to step 5.
ОК	
4	Check[for[short[]n[harness[and[connector[between[sub[fuel[]ank[forcing[driving relay[and[engine[ECU[(See[page[]N-19)[]
	NG Repair or replace harness and connector, and then go to step 5.
ОК	
Check (See	k and replace engine ECU page[IN-19][
5	Check voltage between terminal FPM1 of engine ECU connector and body ground[See[page[DI-108,[step 1).
	OK Go to step 8.
NG	
6	Check[fuel[pump[relay[(Marking:[FUEL/PMP)[(See[page[FI-46).
	NG Replace fuel pump relay.
ОК	

Check\_circuit\_opening\_relay\_(Marking:\_C/OPN)\_(See\_page\_FI-45). 7□ NG∏ Replace circuit opening relay. OK 8∏ Check operation of main fuel pump (See page DI-108, step 5). HINT: If you have no hand-held tester, and then go to step 9. OK Go to step 11. NG Check[main[fuel[pump[[See[page[Fl-7)]] 9∏ NG Replace main fuel pump. OK 10 Check for open or short in harness and connector between main fuel pump and fuel tank select relay, fuel tank select relay and fuel pump relay, fuel pump relay and circuit opening relay (See page N-19) Repair or replace. NG OK

11 Check[for[open[and[short]]n[harness[and[connector[between[fuel[tank[select relay[and[engine[ECU[(See[page]]N-19])]

NG

Repair or replace harness and connector.

OK

Check and replace engine ECU (See page N-19).