DIB2Y-04

# **Fuel Pump Control Circuit**

## **CIRCUIT DESCRIPTION**

Refer to DTC P0230 on page DI-125.

## **WIRING DIAGRAM**

Refer to DTC P0230 on page DI-125.

## INSPECTION PROCEDURE

# When using hand-held tester:

1 Check fuel pump operation (See Pub. No. RM630E, page FI-7).

ок

Go to step 8.

NG

2

Connect hand-held tester, and check operation of fuel pump relay.

#### PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.
- (c) Enter the following menus: DIAGNOSIS / OBD/MOBD / ACTIVE TEST / FUEL PUMP / SPD.

### **CHECK:**

Check the operation of the fuel pump relay when it is switched ON and OFF by the hand-held tester.

## 0<u>K:</u>

Operating noise can be heard from the relay.

OK Go to step 4.

NG

3 Check operation of fuel pump relay (See Pub. No. RM630E, page FI

**-54).** 

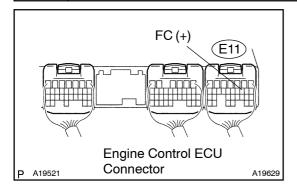
NG

Replace fuel pump relay.

OK

	DIAGNOCTION - ENGINE
4	Check fuel pump (See Pub. No. RM630E, page FI-7).
	NG Repair or replace fuel pump.
ОК	
5	Check circuit opening relay (See Pub. No. RM630E, page FI-53).
	NG Replace circuit opening relay.
ОК	
6	Check for open in harness and connector between EFI or ECD relay and fuel pump, and fuel pump and body ground (See page IN-20).
	NG Repair or replace harness or connector.
ОК	

# 7 Check voltage between terminal FC and E1 of engine control ECU connector.



### PREPARATION:

Turn the ignition switch ON.

## **CHECK:**

Measure the voltage between terminal FC of the engine control ECU connector and body ground.

### OK:

Voltage: 9 to 14 V



Check for open in harness and connector between battery and FC terminal of engine control ECU (See page IN-20).

**OK** 

Proceed to problem symptoms table (See page DI-34).

8 Check fuel pump resistor (See Pub. No. RM630E, page Fl -59).

NG

Replace fuel pump resistor.

OK

Check for open in harness and connector between circuit opening relay and fuel pump resistor, and fuel pump resistor and fuel pump (See page IN-20).

1 Check operation of fuel pump (See Pub. No. RM630E, page FI-7).

> OK Go to step 7.

NG

Check operation of fuel pump relay (See Pub. No. RM630E, page FI-54). 2

> NG Replace fuel pump relay.

OK

3 Check fuel pump (See Pub. No. RM630E, page FI-7).

> NG Repair or replace fuel pump.

OK

4 Check circuit opening relay (See Pub. No. RM630E, page FI-53).

> Replace circuit opening relay. NG

OK

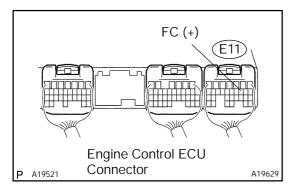
Check for open in harness and connector between EFI or ECD relay and fuel 5 pump, and fuel pump and body ground (See page IN-20).

NG

Repair or replace harness or connector.

OK

6 Check voltage between terminal FC of engine control ECU connector and body ground.



### PREPARATION:

Turn the ignition switch ON.

#### **CHECK:**

Measure the voltage between terminal FC of the engine control ECU connector and body ground.

# OK:

Voltage: 9 to 14 V

NG \

Check for open in harness and connector between battery and FC terminal of engine control ECU (See page IN-20).

OK

Proceed to problem symptoms table (See page DI-34).

7 Check fuel pump resistor (See Pub. No. RM630E, page FI-59).

NG

Replace fuel pump resistor.

OK

Check for open in harness and connector between circuit opening relay and fuel pump resistor, fuel pump resistor and fuel pump (See page IN-20).