

## 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).

OK

Go to step 3.

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- 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.

#### OK:

Operating noise can be heard from the relay.

OK

Go to step 4.

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

NG

Replace fuel pump relay.

OK

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

NG

Repair or replace fuel pump.

OK

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

NG

Replace circuit opening relay.

OK

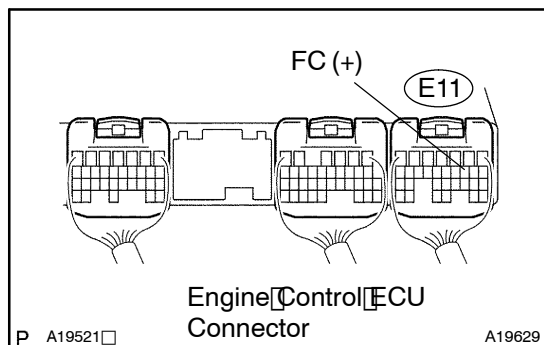
6 Check for open in harness and connector between EFI or ECD relay and fuel pump, and fuel pump and body ground (See page IN-20).

NG

Repair or replace harness or connector.

OK

# 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

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).

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

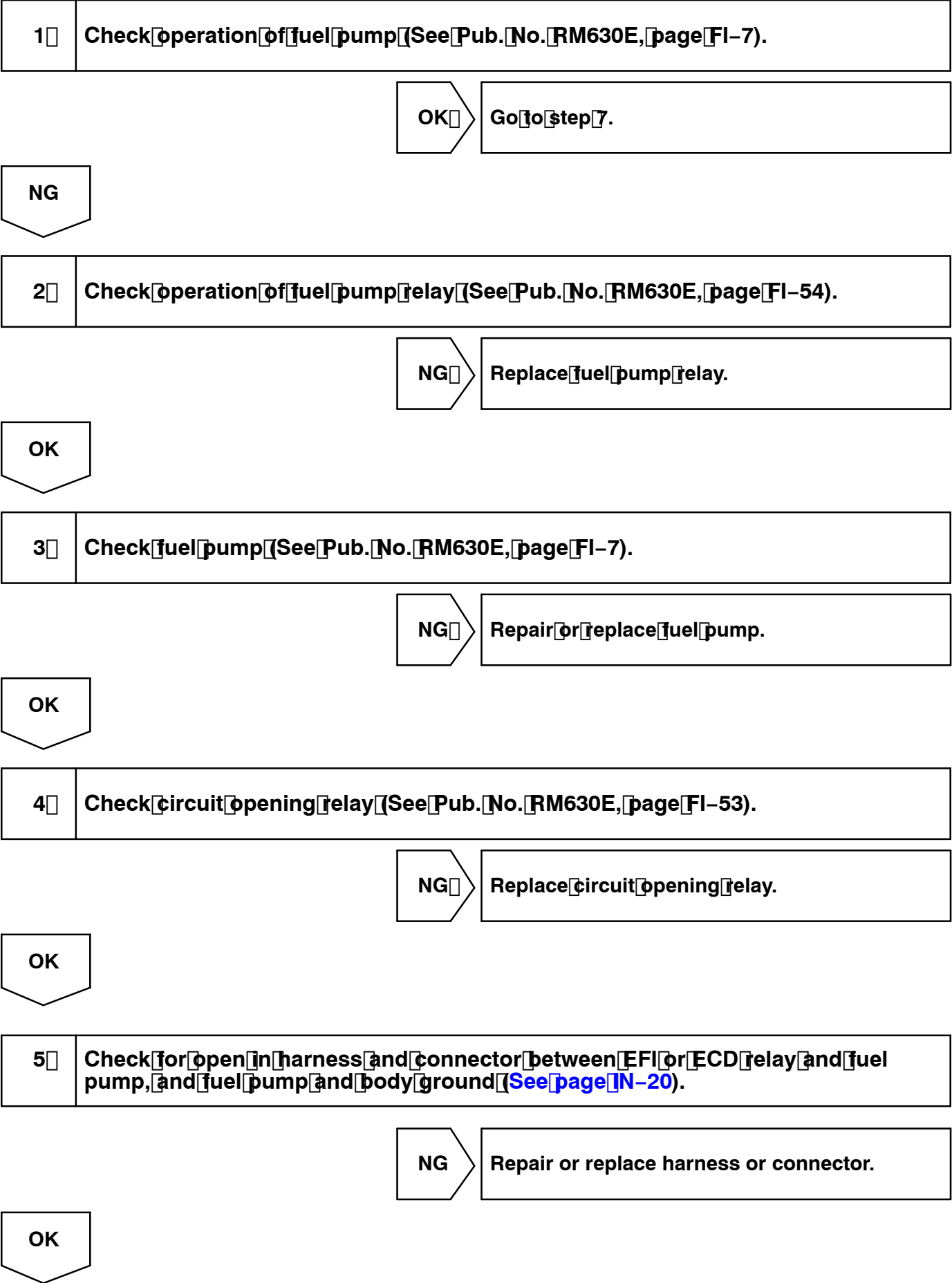
NG

Replace fuel pump resistor.

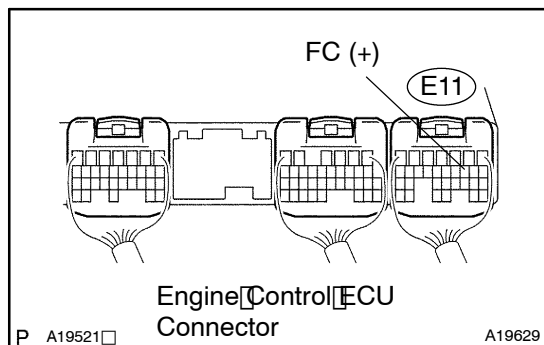
OK

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

When not using hand-held tester:



## 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).