

Fuel Pump Control Circuit

CIRCUIT DESCRIPTION

Refer to DTC P0230 on page [DI-85](#).

WIRING DIAGRAM

Refer to DTC P0230 on page [DI-85](#).

INSPECTION PROCEDURE

Hand-held tester:

- | | |
|---|---|
| 1 | Check fuel pump operation (See page SF-7). |
|---|---|

OK

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) Select the ACTIVE TEST mode on the hand-held tester.
- (d) Please refer to the hand-held tester operator's manual for further details.

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.

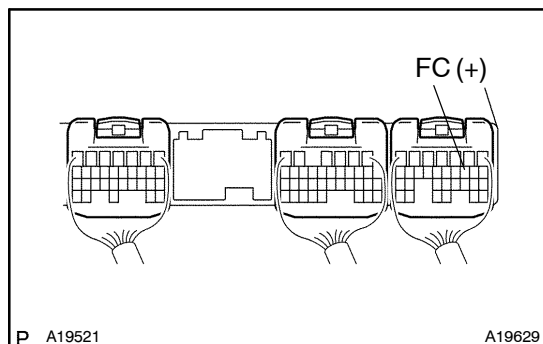
NG

- | | |
|---|---|
| 3 | Check operation of fuel pump relay (See page SF-40). |
|---|---|

NG

Replace fuel pump relay.

OK

4 Check fuel pump (See page [SF-7](#)).**NG****Repair or replace fuel pump.****OK****5 Check circuit opening relay (See page [SF-39](#)).****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-36](#)).****NG****Repair or replace.****OK****7 Check voltage between terminal FC of ECM connector and body ground.****PREPARATION:**

- (a) Remove the glove compartment door (See page [SF-60](#)).
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal FC of the ECM connector and body ground.

OK:**Voltage: 9 – 14 V****NG****Check for open in harness and connector between battery and FC terminal of ECM (See page [IN-36](#)).****OK**

Proceed to problem symptoms table (See page [DI-33](#)).

8 Check fuel pump resistor (See page [SF-42](#)).

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-36](#)).

OBD II scan tool (excluding hand-held tester):

1 Check fuel pump operation(See page [SF-7](#)).

OK

Go to step 7.

NG

2 Check fuel pump relay operation (See page [SF-40](#)).

NG

Replace fuel pump relay.

OK

3 Check fuel pump (See page [SF-7](#)).

NG

Repair or replace fuel pump.

OK

4 Check circuit opening relay (See page [SF-39](#)).

NG

Replace circuit opening relay.

OK

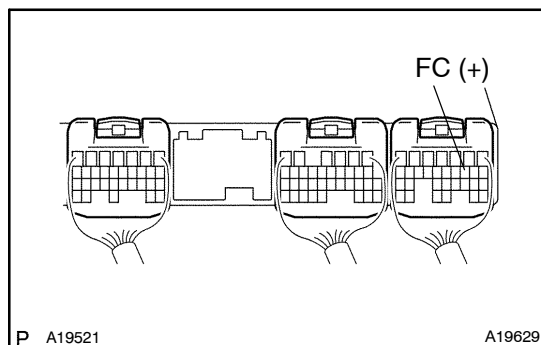
5 Check for open in harness and connector between EFI or ECD relay and fuel pump, and fuel pump and body ground (See page [IN-36](#)).

NG

Repair or replace.

OK

6 Check voltage between terminal FC of ECM connector and body ground.



PREPARATION:

- (a) Remove the glove compartment door (See page [SF-60](#)).
- (b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminal FC of the ECM connector and body ground.

OK:

Voltage: 9 - 14 V

NG

Check for open in harness and connector between battery and FC terminal of ECM (See page [IN-36](#)).

OK

Proceed to problem symptoms table (See page [DI-33](#)).

7	Check fuel pump resistor (See page SF-42).
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NG	Replace fuel pump resistor.
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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-36).
