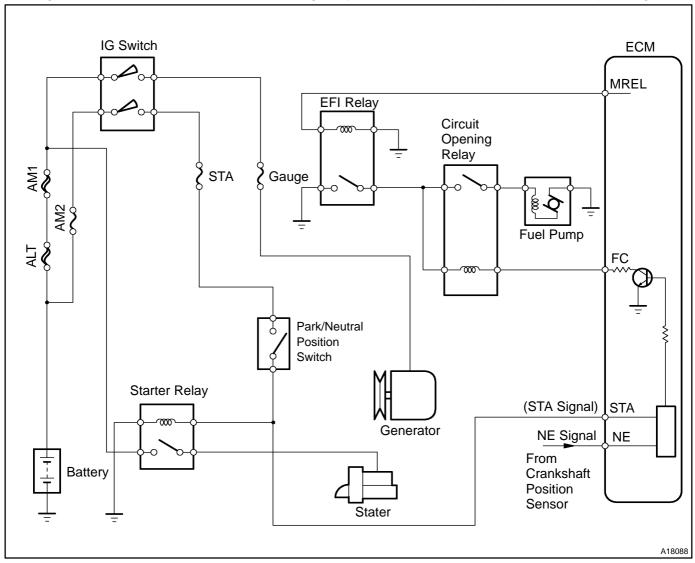
DI8XN-02

Fuel Pump Control Circuit

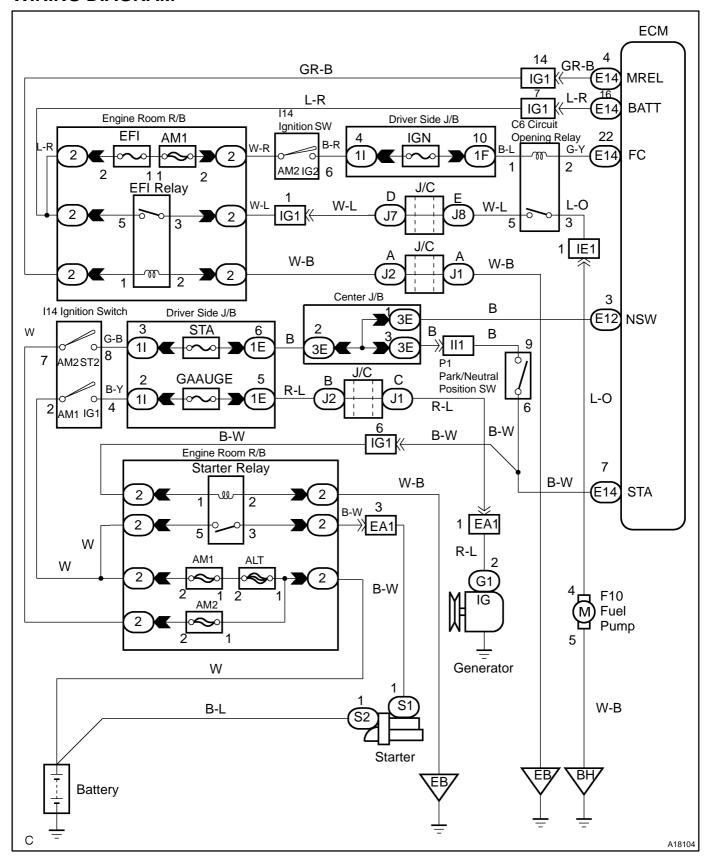
CIRCUIT DESCRIPTION

In the diagram below, when the engine is cranked, current flows from terminal ST of the ignition switch to the starter relay coil, the starter relay switches on and current flows to coil L1 of the circuit opening relay. Thus the circuit opening relay switches on, power is supplied to the fuel pump and the fuel pump operates. When the STA signal and NE signal are input to the ECM, Tr is turned ON, current flows to coil L2 of the circuit opening relay, the relay switches on, and the fuel pump operates. While the NE signal is generated (engine running), the ECM keeps Tr ON (circuit opening relay ON) and the fuel pump also keeps operating.



Author: Date: 327

WIRING DIAGRAM



INSPECTION PROCEDURE TOYOTA hand-held tester:

1 Connect TOYOTA hand-held tester, and check operation of fuel pump (See page SF-7).

OK

Check for starter signal circuit (See page DI-145).

NG

2 Check for ECM power source circuit (See page DI-148).

NG

Repair or replace.

OK

3 Check circuit opening relay (See page SF-37).

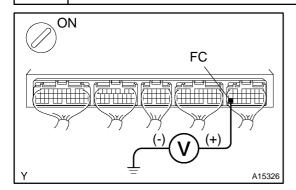
NG

Replace circuit opening relay.

OK

4

Check voltage between terminals FC of ECM and body ground.



PREPARATION:

- (a) Remove the glove compartment (See page SF-54).
- (b) Turn the ignition switch ON.

CHECK:

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

OK:

Voltage: 9 - 14 V

ок \rangle

Go to step 5.

NG

Check for open in harness and connector between EFI main relay (Marking: EFI) and circuit opening relay, and circuit opening relay and ECM.

5 Check fuel pump (See page SF-7).

NG

Repair or replace fuel pump.

ок

6 Check for open in harness and connector between circuit opening relay and fuel pump, and fuel pump and body ground (See page IN-28).

NG

Repair or replace harness or connector.

OK

Check and replace ECM (See page IN-28).

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OBD II scan tool (excluding TOYOTA hand-held tester):	OBD II scan tool ((excluding	TOYOTA	hand-held	tester)):
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1 Check operation of fuel pump (See page SF-7).

OK

Check for starter signal circuit (See page DI-145).

NG

2 Check for ECM power source circuit (See page DI-148).

NG

Repair or replace.

OK

3 Check circuit opening relay (See page SF-37).

NG

Replace circuit opening relay.

ОК

4 Check voltage between terminals FC of ECM connector and body ground (See page DI-151, step 4).

OK

Go to step 5.

NG

Check for open in harness and connector between EFI main relay (Marking: EFI) and circuit opening relay, and circuit opening relay and ECM.

5 Check fuel pump (See page SF-7).

NG

Repair or replace fuel pump.

OK

6 Check for open in harness and connector between circuit opening relay and fuel pump, and fuel pump and body ground (See page IN-28).

NG

Repair or replace harness or connector.

OK

Check and replace ECM (See page IN-28).

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