

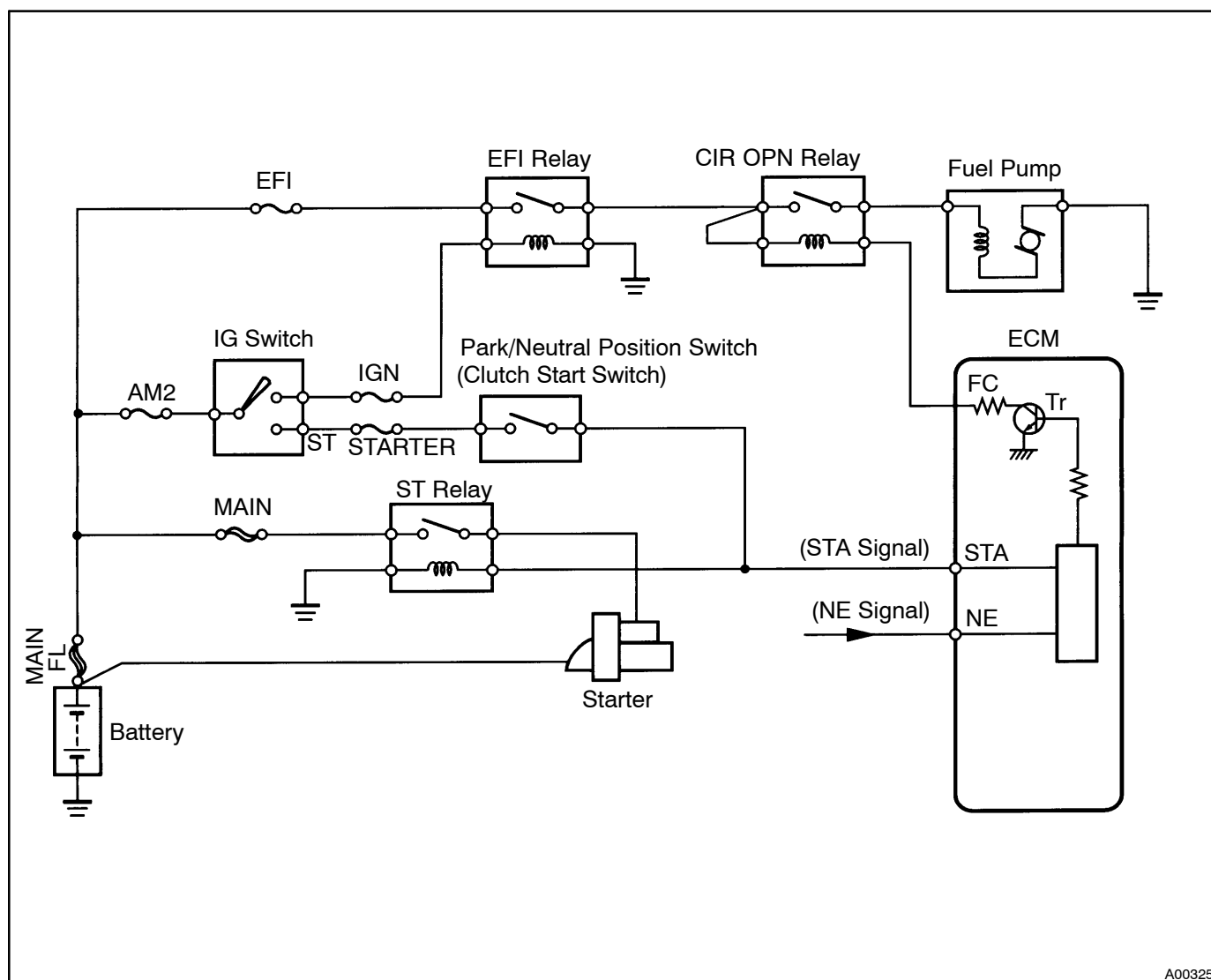
## Fuel Pump Control Circuit

### CIRCUIT DESCRIPTION

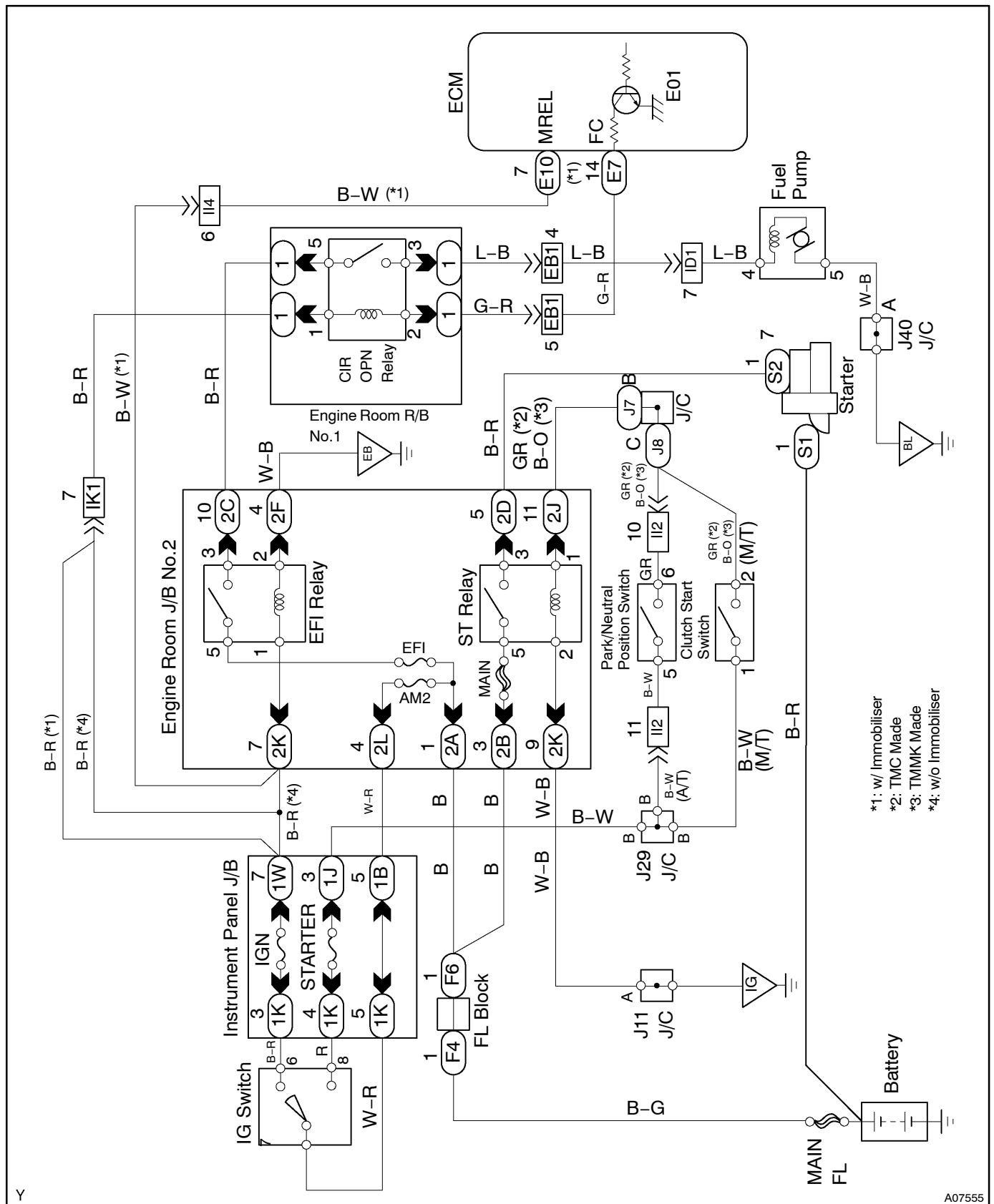
In the diagram below, when the engine is cranked, current flows from terminal ST of the ignition switch to the starter relay coil and also current flows to terminal STA of ECM (STA signal).

When the STA signal and NE signal are input to the ECM, Tr is turned ON, current flows to coil of the circuit opening relay, the relay switches on, power is supplied to the fuel pump 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.



## WIRING DIAGRAM



A07555

# INSPECTION PROCEDURE

## TOYOTA hand-held tester:

1	Connect TOYOTA hand-held tester, and check operation of fuel pump (See page <a href="#">DI-3</a> ).
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OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-28](#)).

NG

2	Check for ECM power source circuit (See page <a href="#">DI-179</a> ).
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NG

Repair or replace.

OK

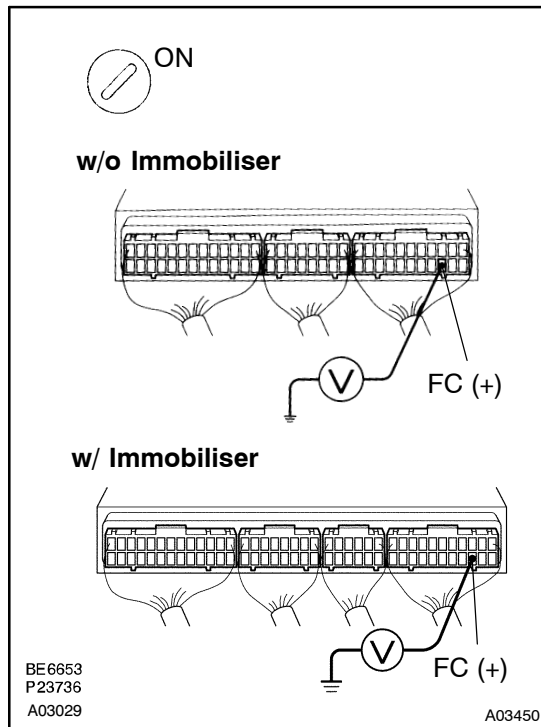
3	Check circuit opening relay (Marking: CIR OPN) (See page <a href="#">SF-41</a> ).
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NG

Replace circuit opening relay.

OK

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



#### PREPARATION:

- Remove the glove compartment (See page [SF-64](#)).
- Turn the ignition switch ON.

#### CHECK:

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

#### OK:

**Voltage 9 ~ 14 V**

OK

Go to step 5.

NG

Check for open in harness and connector between EFI main relay, and circuit opening relay and circuit opening relay and ECM (See page [IN-31](#)).

#### 5 Check fuel pump (See page [SF-6](#)).

NG

Repair or replace fuel pump.

OK

- |          |                                                                                                                                                                                |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6</b> | <b>Check for open in harness and connector between circuit opening relay (Marking: CIR OPN) and fuel pump, and fuel pump and body ground (See page <a href="#">IN-31</a>).</b> |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

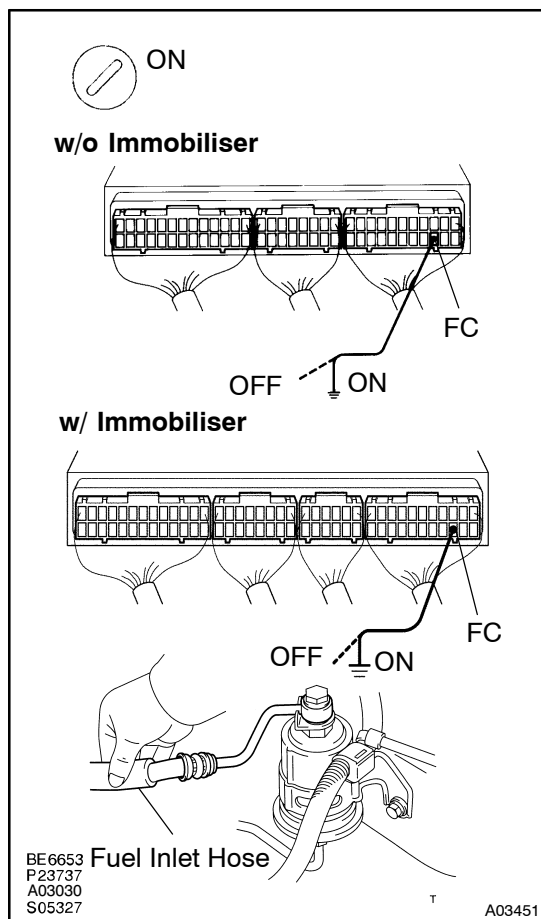
NG

Repair or replace harness or connector.

OK

Check and replace ECM (See page [IN-31](#)).**OBD II scan tool (excluding TOYOTA hand-held tester):**

- |          |                                      |
|----------|--------------------------------------|
| <b>1</b> | <b>Check operation of fuel pump.</b> |
|----------|--------------------------------------|

**PREPARATION:**

- Remove the glove compartment (See page [SF-64](#)).
- Turn the ignition switch ON.

**CHECK:**

- Connect between terminal FC of the ECM connector and body ground.
- Check for fuel pressure in the fuel inlet hose when it is pinched off.

**OK:****There is pressure in fuel inlet hose.****HINT:**

At this time, you will hear a fuel return flowing noise.

OK

Proceed to next circuit inspection shown on problem symptoms table (See page [DI-28](#)).

NG

**2** Check for ECM power source circuit (See page [DI-179](#)).

NG

Repair or replace.

OK

**3** Check circuit opening relay (Marking: CIR OPN) (See page [SF-41](#)).

NG

Replace circuit opening relay.

OK

**4** Check voltage between terminal FC of ECM connector and body ground (See page [DI-183](#), step 4).

OK

Go to step 5.

NG

Check for open in harness and connector between EFI main relay and circuit opening relay, and circuit opening relay and ECM (See page [IN-31](#)).

**5** Check fuel pump (See page [SF-6](#)).

NG

Repair or replace fuel pump.

OK

6	Check for open in harness and connector between circuit opening relay (Marking: CIR OPN) and fuel pump, and fuel pump and body ground (See page <a href="#">IN-31</a> ).
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NG	Repair or replace harness or connector.
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OK

Check and replace ECM (See page [IN-31](#)).