

## ECM Power Source Circuit

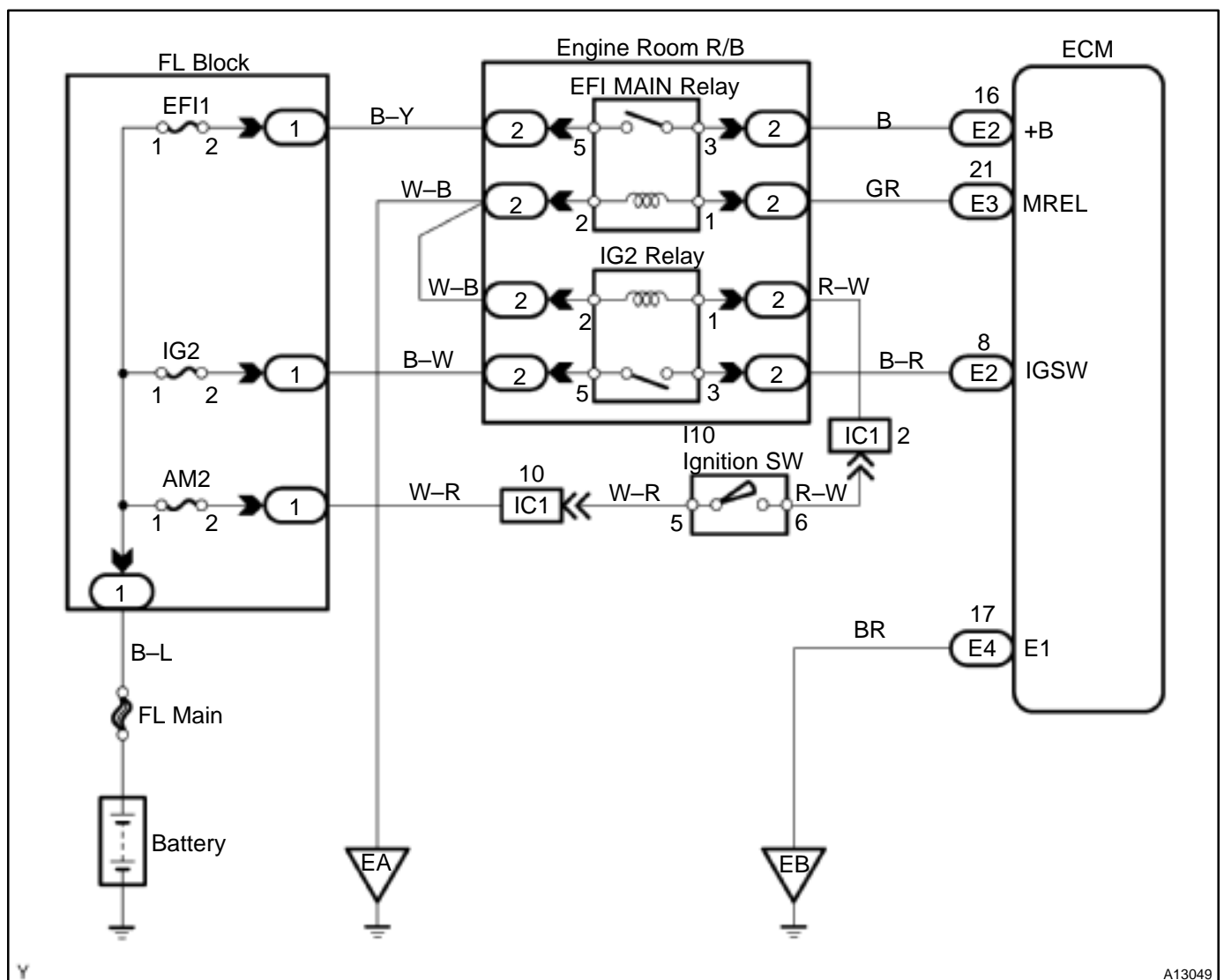
### CIRCUIT INSPECTION

When the ignition switch is turned on, battery positive voltage is applied to IG2 Relay, terminal IGSW of the ECM and the EFI main relay (Marking: EFI MAIN) control circuit in the ECM sends a signal to terminal MREL of the ECM switching on the EFI main relay.

This signal causes current to flow to the coil, closing the contacts of the EFI main relay and supplying power to terminals +B of the ECM.

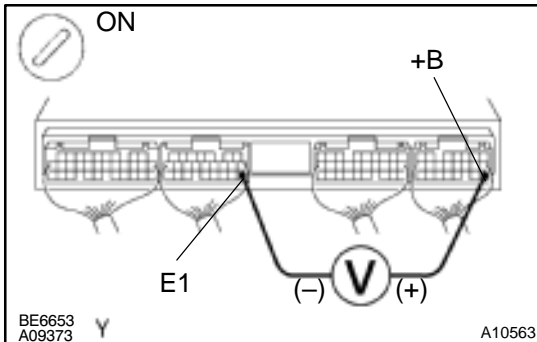
If the ignition switch is turned off, the ECM continues to switch on the EFI main relay for a maximum of 2 seconds for the initial setting of the IAC valve.

### WIRING DIAGRAM



## INSPECTION PROCEDURE

1	<b>Check voltage between terminals +B and E1 or ECM connectors.</b>
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**PREPARATION:**

- (a) Disconnect the ECM with connector from body panel (See page [SF-62](#)).
- (b) Turn the ignition switch ON.

**CHECK:**

Measure the voltage between terminals +B and E1 of the ECM connectors.

**OK:**

**Voltage: 9 – 14 V**

**OK**

**Proceed to next circuit inspection shown on problem symptoms table (See page [DI-21](#)).**

**NG**

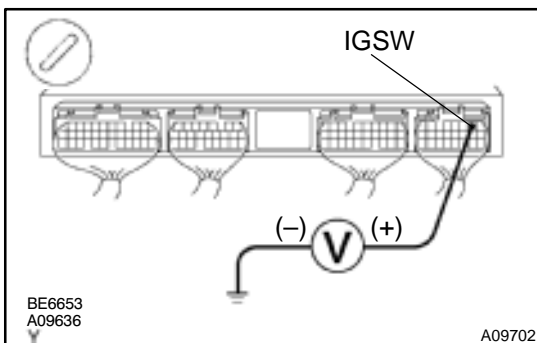
2	<b>Check for open in harness and connector between terminal E1 of ECM connector and body ground (See page <a href="#">IN-28</a>).</b>
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**NG**

**Repair or replace harness or connector.**

**OK**

3	<b>Check voltage between terminal IGSW of ECM connector and body ground.</b>
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**PREPARATION:**

- (a) Disconnect the ECM with connector from body panel (See page [SF-62](#)).
- (b) Turn the ignition switch ON.

**CHECK:**

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

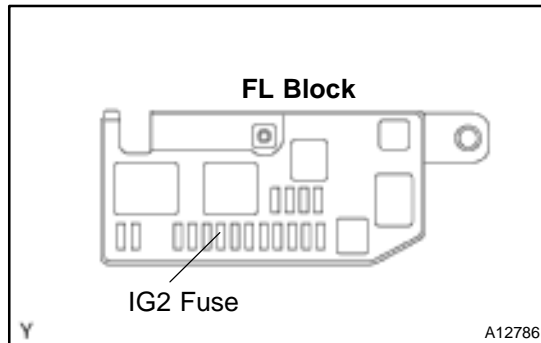
**OK:**

**Voltage: 9 – 14 V**

**OK**

**Go to step 6.**

**NG**

**4 Check IG2 fuse.****PREPARATION:**

Remove the IG2 fuse from the FL block.

**CHECK:**

Check the continuity of the IG2 fuse.

**OK:**

Continuity

NG

Check for short in all harness and components connected to IG2 fuse (See attached wiring diagram).

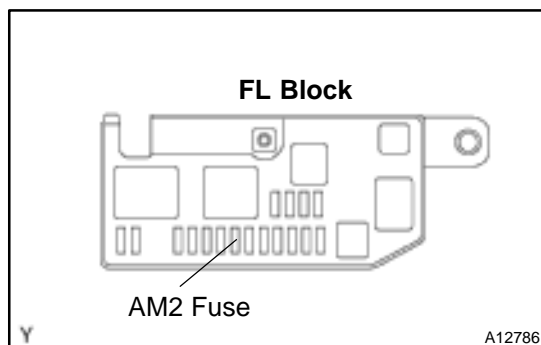
OK

**5 Check IG2 relay (See page IG-7).**

NG

Replace IG2 relay.

OK

**6 Check AM2 fuse.****PREPARATION:**

Remove the AM2 fuse from the FL block.

**CHECK:**

Check the continuity of the AM2 fuse.

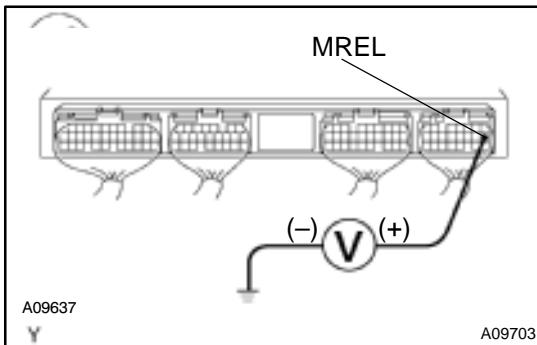
**OK:**

Continuity

NG

Check for short in all harness and components connected to AM2 fuse (See attached wiring diagram).

OK

**7 Check ignition switch (See page [BE-15](#)).****NG****Replace ignition switch.****OK****Check and repair harness and connector between battery and ignition switch, and ignition switch and ECM.****8 Check voltage between terminal MREL of ECM connector and body ground.****PREPARATION:**

- (a) Disconnect the ECM with connector from body panel (See page [SF-62](#)).
- (b) Turn the ignition switch ON.

**CHECK:**

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

**OK:****Voltage: 9 – 14 V****NG****Check and replace ECM (See page [IN-28](#)).****OK****9 Check EFI1 fuse (See page [DI-123](#), step 2).****NG****Check for short in all harness and components connected to EFI1 fuse (See attached wiring diagram).****OK****10 Check EFI main relay (Marking: EFI MAIN) (See page [SF-44](#)).****NG****Replace EFI main relay.**

OK

11	Check for open and short in harness and connector between terminal MREL of ECM and body ground (See page <a href="#">IN-28</a> ).
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NG

Repair or replace harness or connector.

OK

Check and repair harness or connector between EFI1 fuse and battery.