

ECM Power Source Circuit

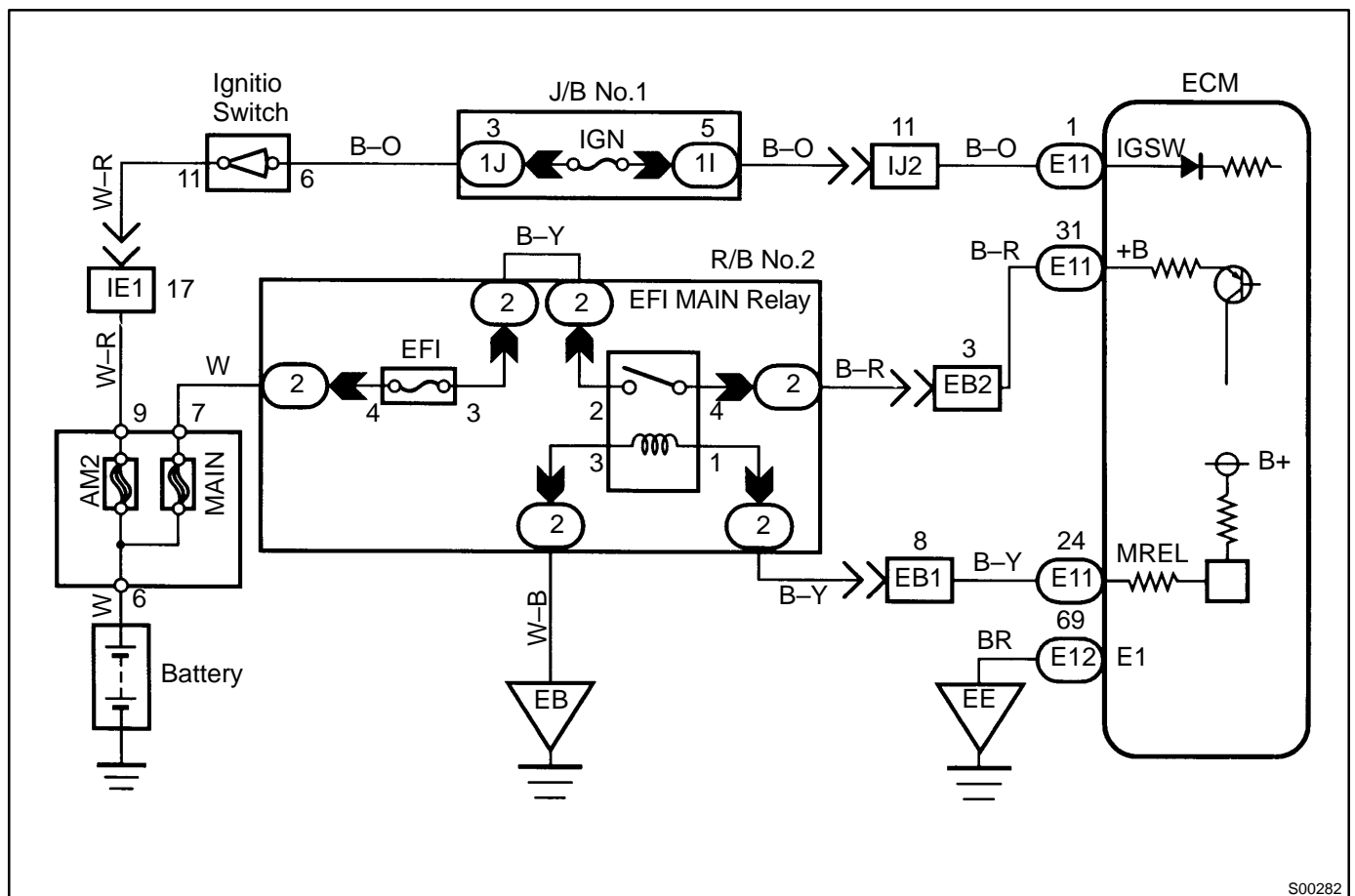
CIRCUIT DESCRIPTION

When the ignition switch is turned on, battery positive voltage is applied to the terminal IG SW of the ECM and the EFI main relay control circuit in the ECM sends a signal to the 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 the terminals +B of the ECM.

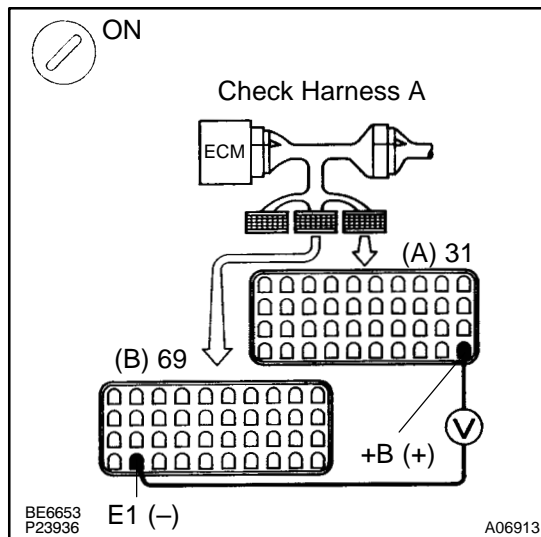
If the ignition switch is turned off, the ECM continues to switch on the EFI main relay for a maximum of 2 seconds for the initial setting of the IAC valve.

WIRING DIAGRAM



INSPECTION PROCEDURE

- 1 Check voltage between terminals +B and E1 of ECM connector.**

**PREPARATION:**

- (a) Connect the Check Harness A.
(b) Turn ignition switch ON.

CHECK:

Measure voltage between terminals +B and E1 of ECM connector.

OK:

Voltage: 9 – 14 V

OK

Proceed to next circuit inspection shown on matrix chart (See page [DI-171](#)).

NG

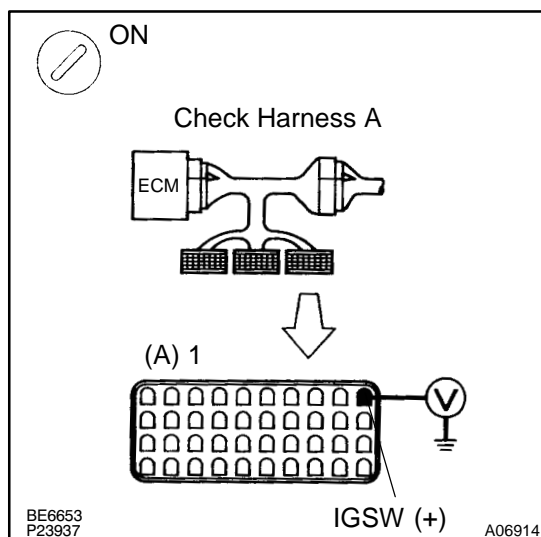
- 2 Check for open in harness and connector between terminal E1 of ECM connector and body ground (See page [IN-29](#)).**

NG

Repair or replace harness or connector.

OK

- 3 Check voltage between terminal IGSW of ECM connector and body ground.**

**PREPARATION:**

Connect the Check Harness A.

CHECK:

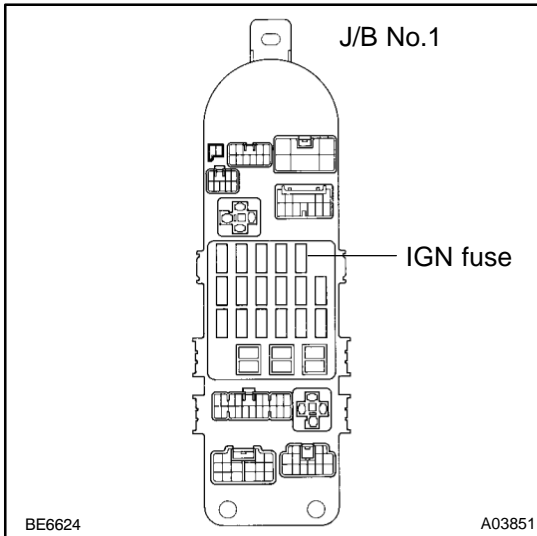
Measure voltage between terminal IGSW of ECM and body ground.

OK:

Voltage: 9 – 14 V

OK

Go to step 6.

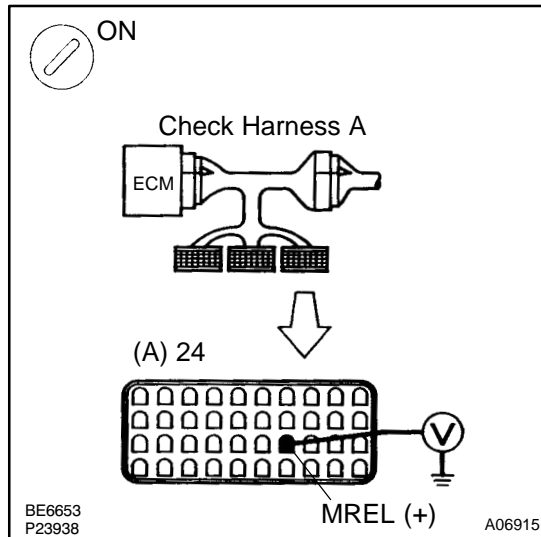
NG**4 Check IGN fuse.****PREPARATION:**

Remove IGN fuse from J/B No.1.

CHECK:

Check continuity of IGN fuse.

OK:**Continuity****NG****Check for short in all the harness and components connected to IGN fuse (See attached wiring diagram).****OK****5 Check ignition switch (See page [BE-21](#)).****NG****Replace ignition switch.****OK****Check and repair harness and connector between battery and ignition switch, ignition switch and ECM.**

6 Check voltage between terminal MREL of ECM connector and body ground.**PREPARATION:**

Connect the Check Harness A.

CHECK:

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

OK:

Voltage: 9 – 14 V

NG

Check and replace ECM (See page [IN-29](#)).

OK**7 Check EFI fuse (See page [DI-281](#), step 2).****NG**

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

OK**8 Check EFI main relay (Marking: EFI MAIN) (See page [SF-52](#)).****NG**

Replace EFI main relay.

OK**9 Check for open and short in harness and connector between terminal MREL of ECM and body ground (See page [IN-29](#)).****NG**

Repair or replace harness or connector.

A button with a black border and a downward-pointing arrow shape at the bottom. The text "OK" is centered inside the button.

OK

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