

ECM POWER SOURCE CIRCUIT

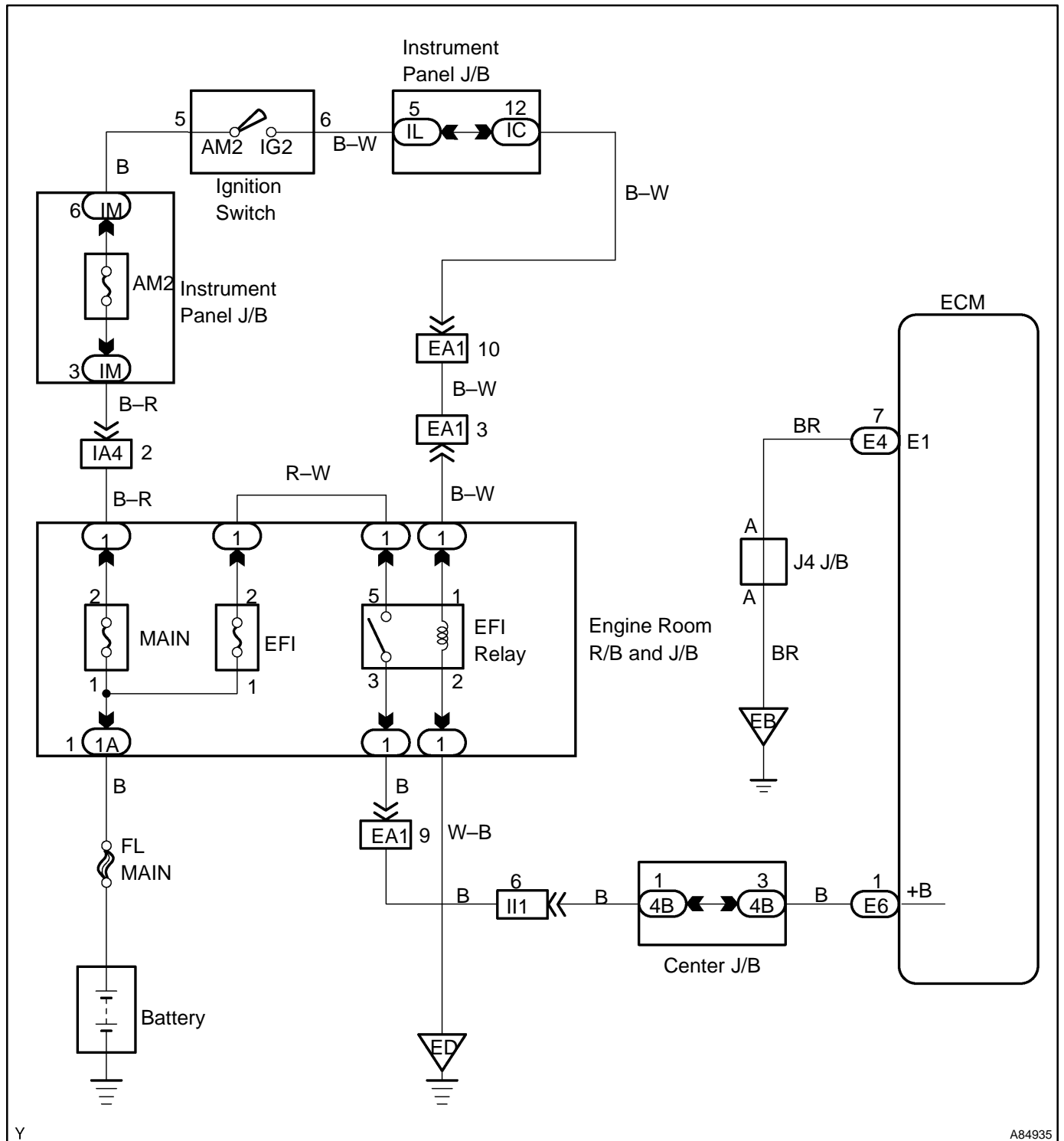
CIRCUIT DESCRIPTION

When the ignition switch is turned ON, battery positive voltage is applied to the coil which closes the contacts of the EFI main relay (Marked: EFI) and supplies power to terminal +B of the ECM.

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

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

WIRING DIAGRAM

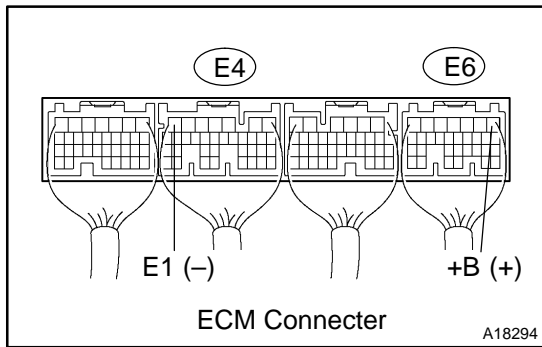


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INSPECTION PROCEDURE

1 INSPECT ECM(+B VOLTAGE)



- (a) Turn the ignition switch ON.
- (b) Measure the voltage between the terminals of the E4 and E6 ECM connectors.

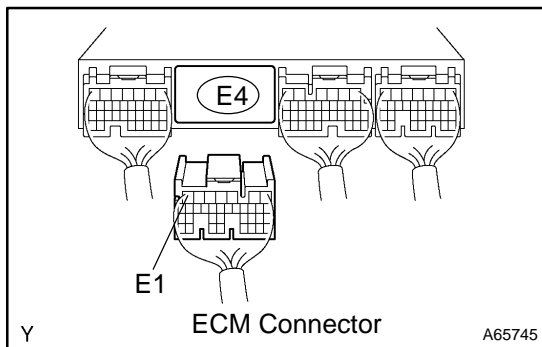
Standard:

Tester Connection	Specified Condition
+B (E6-1) - E1 (E4-7)	8 to 14 V

OK → REPLACE ECM (See page 10-11)

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2 CHECK HARNESS AND CONNECTOR(ECM - BODY GROUND)



- (a) Disconnect the E4 ECM connector.
- (b) Check the resistance between the wire harness side connectors.

Standard (Check for open):

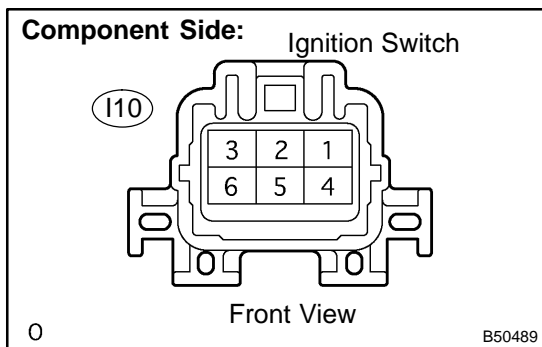
Tester Connection	Specified Condition
E1 (E4-7) - Body ground	Below 1 Ω

- (c) Reconnect the ECM connector.

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3 INSPECT IGNITION OR STARTER SWITCH ASSY



- (a) Disconnect the I10 ignition switch connector.
- (b) Check for continuity between the connector terminals shown in the chart below.

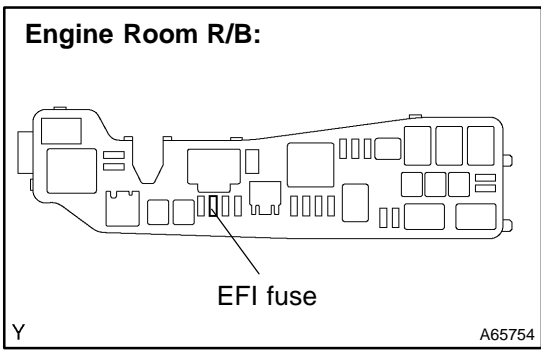
Switch Position	Tester Connection	Specified Condition
LOCK	All Terminals	No continuity
ACC	1-3	Continuity
ON	1-2, 1-3, 2-3, 5-6	Continuity
START	1-2, 4-5, 4-6, 5-6	Continuity

- (c) Reconnect the ignition switch connector.

NG → REPLACE IGNITION OR STARTER SWITCH ASSY

OK

4 CHECK FUSE(EFI FUSE)

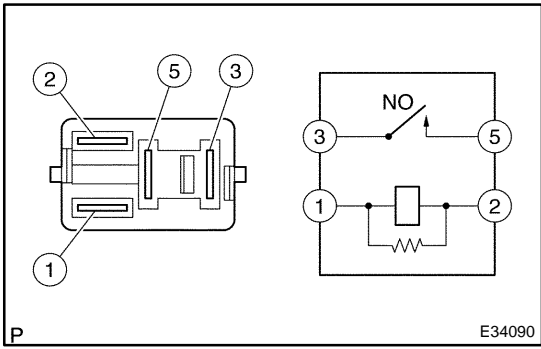


- (a) Remove the EFI fuse from the engine room R/B.
- (b) Check for continuity in the EFI fuse.
Standard: Continuity
- (c) Reinstall the EFI fuse.

NG CHECK FOR SHORT IN ALL HARNESSSES AND COMPONENTS CONNECTED FUSE

OK

5 INSPECT EFI RELAY



- (a) Remove the EFI relay from the engine room R/B.
- (b) Check for continuity in the circuit EFI relay.
Standard:

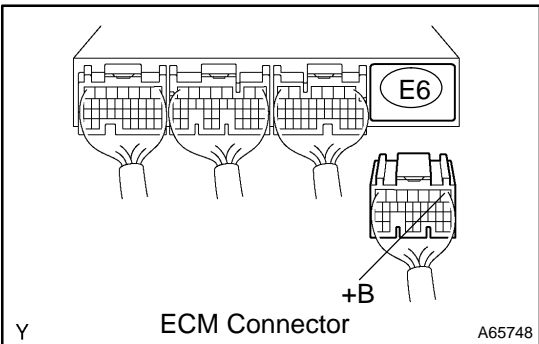
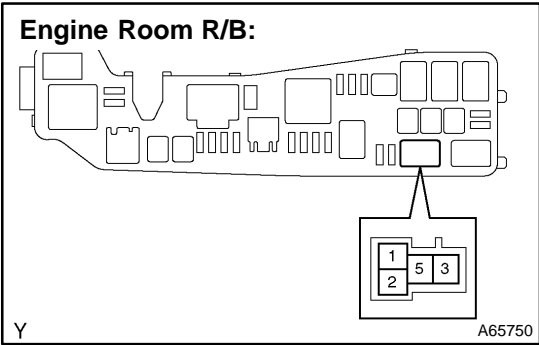
Tester Connection	Specified Condition
1 - 2	Continuity
3 - 5	No continuity
	Continuity (Apply battery voltage to terminals 1 and 2)

- (c) Reinstall the EFI fuse.

NG REPLACE EFI RELAY

OK

6 CHECK HARNESS AND CONNECTOR(EFI RELAY - ECM, EFI RELAY - BODY GROUND)



- (a) Check the harness and connector between the EFI relay and ECM.
 - (1) Remove the EFI relay from the engine room R/B.
 - (2) Disconnect the E6 ECM connector.
 - (3) Check the resistance between the wire harness side connectors.

Standard (Check for open):

Tester Connection	Specified Condition
EFI relay (3) - +B (E6-1)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
EFI relay (3) or +B (E6-1) - Body ground	10 kΩ or higher

- (4) Reconnect the ECM connector.
- (5) Reinstall the EFI relay.
- (b) Check the harness and connector between the EFI relay and body ground.
 - (1) Remove the EFI relay from the engine room R/B.
 - (2) Check the resistance between the wire harness side connector and body ground.

Standard (Check for open):

Tester Connection	Specified Condition
EFI relay (2) - Body ground	Below 1 Ω

- (3) Reinstall the EFI relay.

OK REPAIR OR REPLACE HARNESS OR CONNECTOR

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CHECK AND REPAIR HARNESS AND CONNECTOR (TERMINAL +B OF ECM - BATTERY POSITIVE TERMINAL)