

# ECM POWER SOURCE CIRCUIT

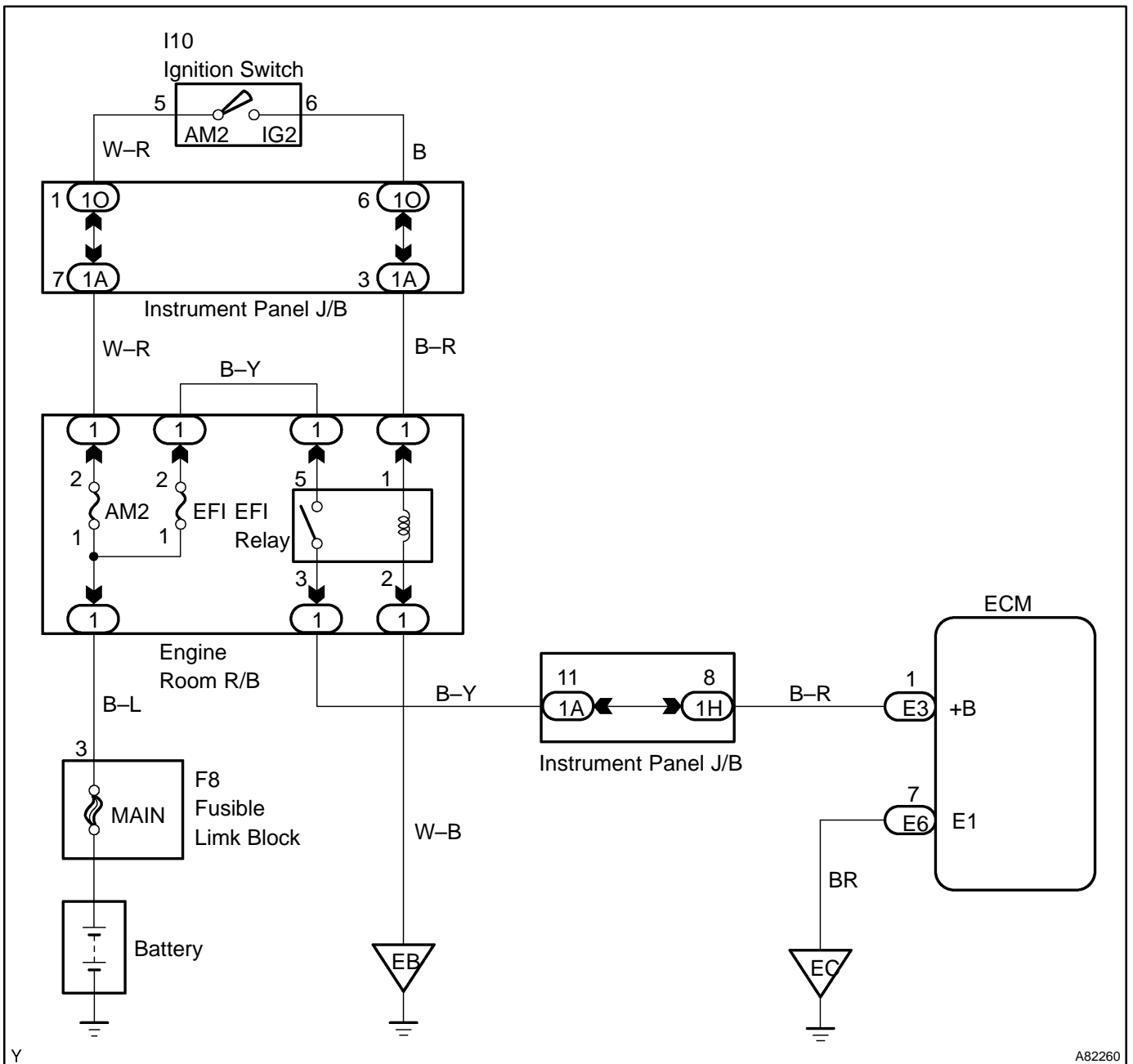
## CIRCUIT DESCRIPTION

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 throttle valve.

## WIRING DIAGRAM

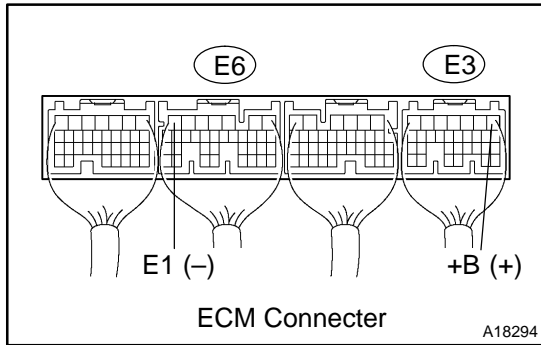


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# INSPECTION PROCEDURE

## 1 INSPECT ECM(+B VOLTAGE)



- (a) Turn the ignition switch ON.
- (b) Measure the voltage between the specified terminals of the E3 and E6 ECM connectors.

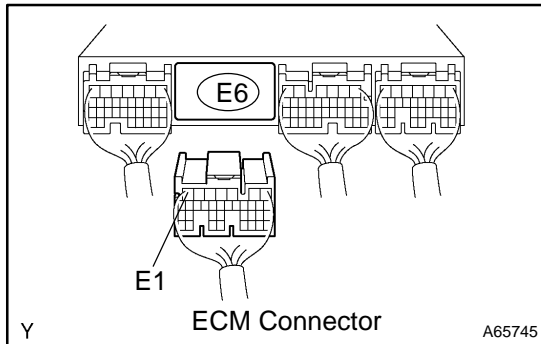
**Standard:**

Tester Connection	Specified Condition
+B (E3-1) – E1 (E6-7)	9 to 14 V

**OK** → REPLACE ECM (See page 10-17)

**NG**

## 2 CHECK HARNESS AND CONNECTOR(ECM – BODY GROUND)



- (a) Disconnect the E6 ECM connector.
- (b) Measure the resistance between the wire harness side connectors.

**Standard (Check for open):**

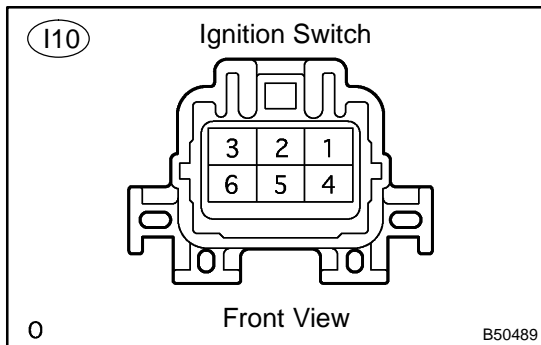
Tester Connection	Specified Condition
E1 (E6-7) – Body ground	Below 1 Ω

- (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) Measure the resistance between the connector terminals shown in the chart below.

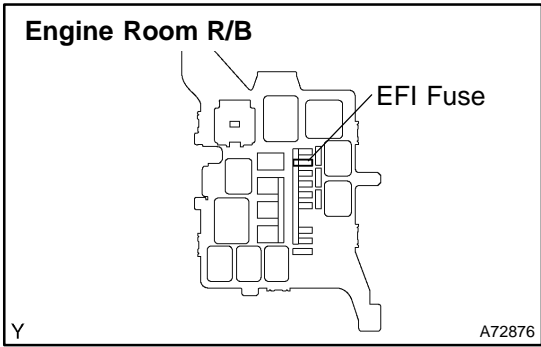
Switch Position	Tester Connection	Specified Condition
LOCK	All Terminals	10 kΩ or higher
ACC	1-3	Below 1 Ω
ON	1-2, 1-3, 2-3, 5-6	Below 1 Ω
START	4-5, 4-6, 5-6, 1-2	Below 1 Ω

- (c) Reconnect the ignition switch connector.

**NG** → REPLACE IGNITION OR STARTER SWITCH ASSY

**OK**

**4 CHECK FUSE(EFI FUSE)**

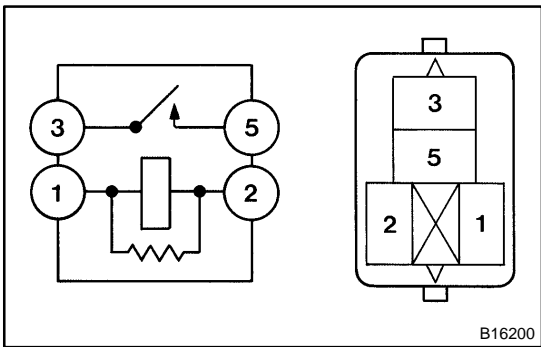


- (a) Remove the EFI fuse from the engine room R/B.
- (b) Check for continuity in the EFI fuse.  
**Standard: Continuity**
- (c) Reinstall the EFI fuse.

**NG** CHECK FOR SHORT IN ALL HARNESSES AND COMPONENTS CONNECTED FUSE

**OK**

**5 INSPECT EFI RELAY**



- (a) Remove the EFI relay from the engine room R/B.
- (b) Inspect the EFI relay.  
**Standard:**

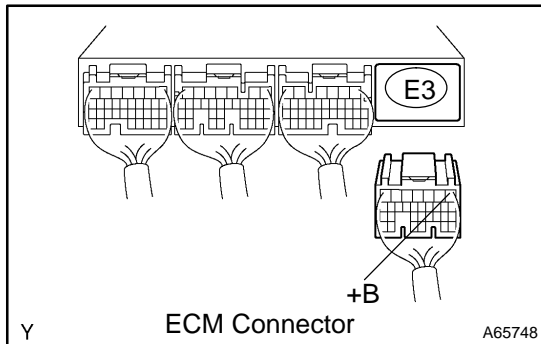
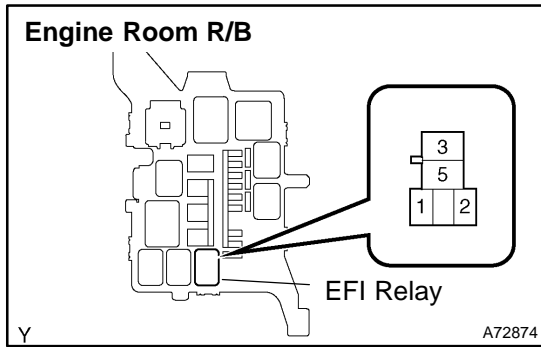
Tester Connection	Specified Condition
1 - 2	Below 1 Ω
3 - 5	10 kΩ or higher
	Below 1 Ω (Apply battery voltage to terminals 1 and 2)

- (c) Reinstall the EFI relay.

**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 connector.
  - (1) Remove the EFI relay from the engine room R/B.
  - (2) Disconnect the E3 ECM connector.
  - (3) Measure the resistance between the wire harness side connectors.

**Standard (Check for open):**

Tester Connection	Specified Condition
EFI relay (3) – +B (E3-1)	Below 1 Ω

**Standard (Check for short):**

Tester Connection	Specified Condition
EFI relay (3) or +B (E3-1) – Body ground	10 kΩ or higher

- (4) Reinstall the EFI relay.
  - (5) Reconnect the ECM connector.
- (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 for continuity between the wire harness side connector and body ground.

**Standard (Check for open):**

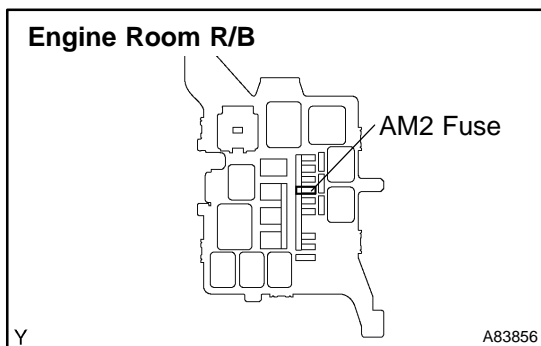
Tester Connection	Specified Condition
EFI relay (2) – Body ground	Below 1 Ω

- (3) Reinstall the EFI relay.

**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

**7 CHECK FUSE(AM2 FUSE)**



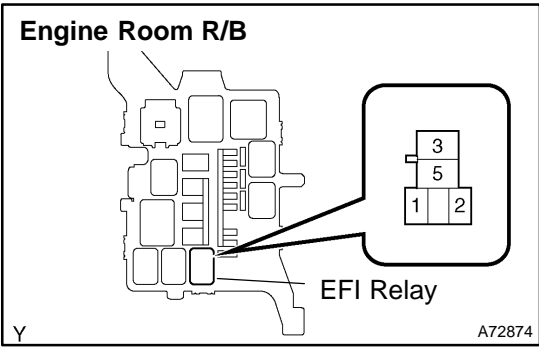
- (a) Remove the AM2 fuse from the engine room R/B.
- (b) Check for continuity in the AM2 fuse.
 

**Standard: Continuity**
- (c) Reinstall the AM2 fuse.

**NG** CHECK FOR SHORT IN ALL HARNESSES AND COMPONENTS CONNECTED FUSE

**OK**

**8 CHECK HARNESS AND CONNECTOR(EFI RELAY – EFI FUSE)**



- (a) Remove the EFI relay from the engine room R/B.
- (b) Remove the EFI fuse from the engine room R/B.
- (c) Measure the resistance between the wire harness side connectors.

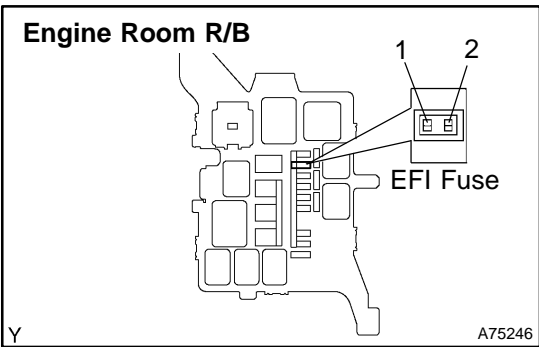
**Standard (Check for open):**

Tester Connection	Specified Condition
EFI relay (5) – EFI fuse (2)	Below 1 Ω

**Standard (Check for short):**

Tester Connection	Specified Condition
EFI relay (5) – EFI fuse (2) – Body ground	10 kΩ or higher

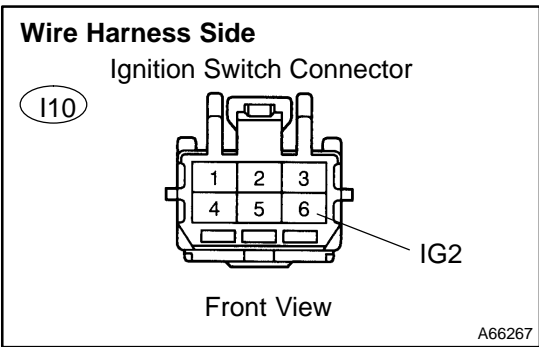
- (d) Reinstall the EFI relay.
- (e) Reinstall the EFI fuse.



**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

**9 CHECK HARNESS AND CONNECTOR(EFI RELAY – IGNITION SWITCH)**



- (a) Remove the EFI relay from the engine room R/B.
- (b) Disconnect the I10 ignition switch connector.
- (c) Measure the resistance between the wire harness side connectors.

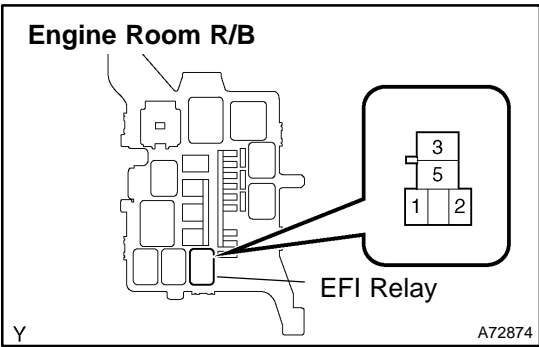
**Standard (Check for open):**

Symbols (Terminal No.)	Specified condition
IG2 (I10-6) – EFI relay (1)	Below 1 Ω

**Standard (Check for short):**

Symbols (Terminal No.)	Specified condition
IG2 (I10-6) or EFI relay (1) – Body ground	10 kΩ or higher

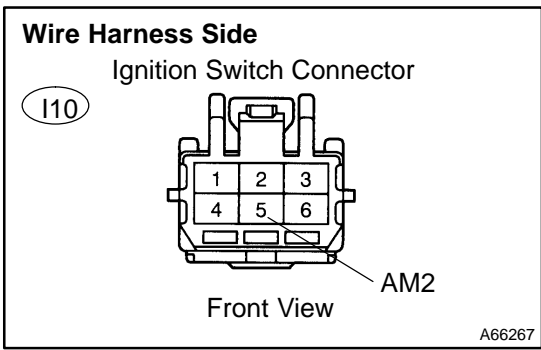
- (d) Reinstall the EFI relay.
- (e) Reconnect the ignition switch connector.



**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

**10 CHECK HARNESS AND CONNECTOR(IGNITION SWITCH - AM2 FUSE)**



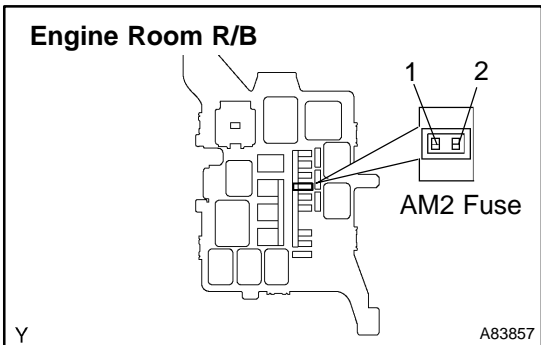
- (a) Disconnect the I10 ignition switch connector.
- (b) Remove the AM2 fuse from the engine room R/B.
- (c) Measure the resistance between the wire harness side connectors.

**Standard (Check for open):**

Symbols (Terminal No.)	Specified condition
AM2 (I10-5) - AM2 fuse (2)	Below 1 Ω

**Standard (Check for short):**

Symbols (Terminal No.)	Specified condition
AM2 (I10-5) - AM2 fuse (2) - Body ground	10 kΩ or higher



- (d) Reconnect the ignition switch connector.
- (e) Reinstall the AM2 fuse.

**NG REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**CHECK AND REPAIR HARNESS AND CONNECTOR (AM2 FUSE - BATTERY POSITIVE TERMINAL, EFI FUSE - BATTERY POSITIVE TERMINAL)**