

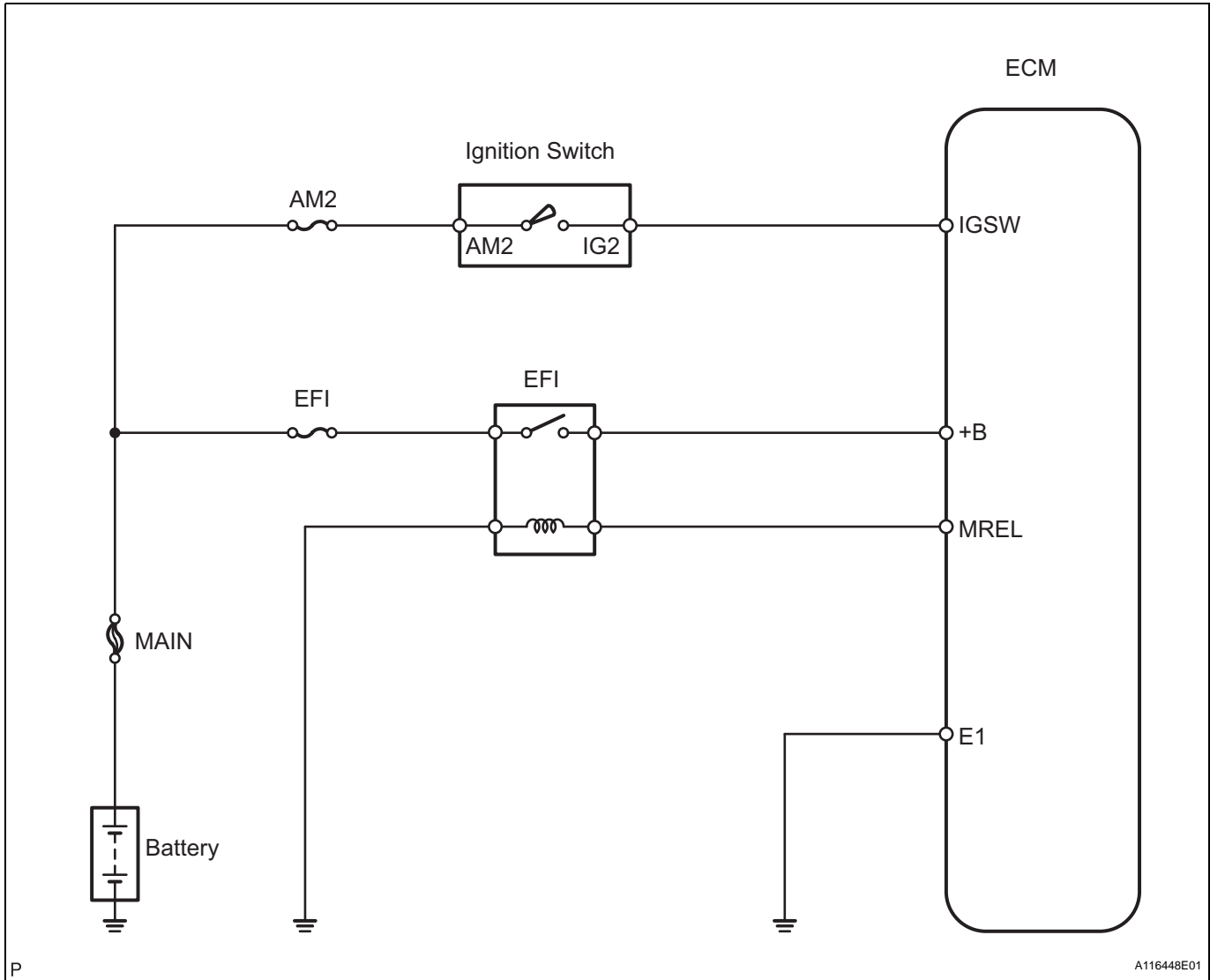
ECM Power Source Circuit

DESCRIPTION

When the ignition switch is turned ON, the positive battery voltage is applied to terminal IGSW of the ECM. The ECM MREL output signal causes a current to flow to the coil, closing the contacts of the EFI relay (Marking: EFI) and supplies power to terminal +B of the ECM.

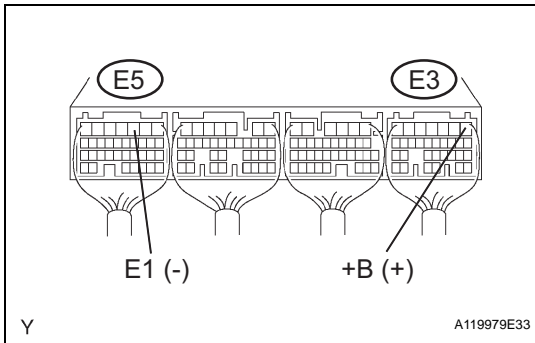
If the ignition switch is turned OFF, the ECM continues to switch on the EFI relay for a maximum of 2 seconds for the initial setting of the throttle valve.

WIRING DIAGRAM



ES

1 INSPECT ECM (+B VOLTAGE)



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

Standard voltage

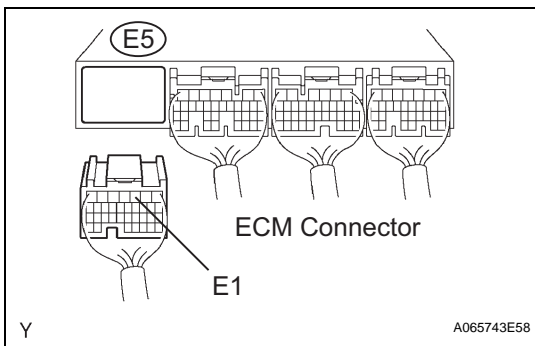
Tester Connection	Specified Condition
+B (E3-1) - E1 (E5-3)	9 to 14 V

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

NG

ES

2 CHECK HARNESS AND CONNECTOR (ECM - BODY GROUND)



- (a) Disconnect the negative (-) battery cable.
- (b) Disconnect the E5 ECM connector.
- (c) Measure the resistance of the wire harness side connector.

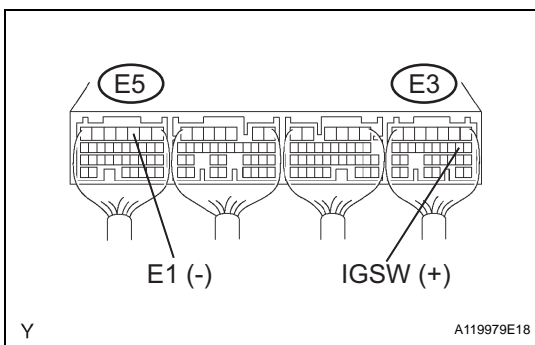
Standard resistance (Check for open)

Tester Connection	Specified Condition
E1 (E5-3) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

3 INSPECT ECM (IGSW VOLTAGE)



- (a) Turn the ignition switch ON.
- (b) Measure the voltage of the ECM connectors.

Standard voltage

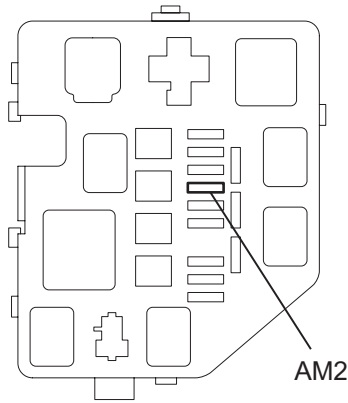
Tester Connection	Specified Condition
IGSW (E3-9) - E1 (E5-3)	9 to 14 V

OK → **Go to step 6**

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4 CHECK FUSE (AM2)

Engine Room Relay Block



P

A116434E01

- (a) Remove the AM2 fuse from the engine room relay block.
- (b) Measure the resistance of the AM2 fuse.

Standard resistance:
Below 1 Ω

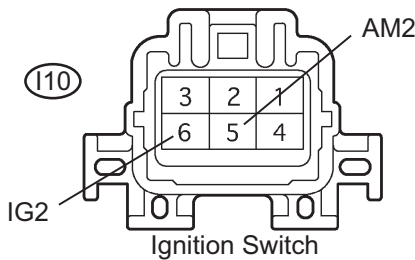
NG

CHECK FOR SHORT IN ALL HARNESES AND COMPONENTS CONNECTED TO FUSE

OK

5 INSPECT IGNITION SWITCH ASSEMBLY

Component Side



Q

B050489E07

- (a) Disconnect the I10 ignition switch connector.
- (b) Measure the resistance of the ignition switch.

Standard resistance

Ignition Switch Position	Tester Connection	Specified Condition
LOCK	All Terminals	10 kΩ or higher
ON	AM2 (5) - IG2 (6)	Below 1 Ω

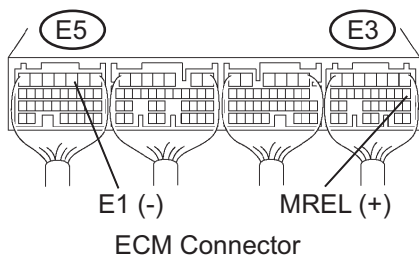
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REPLACE IGNITION SWITCH ASSEMBLY

OK

CHECK HARNESS OR CONNECTOR (BATTERY - IGNITION SWITCH, IGNITION SWITCH - ECM)

6 INSPECT ECM (MREL VOLTAGE)



Y

A119979E19

- (a) Turn the ignition switch ON.
- (b) Measure the voltage of the ECM connectors.

Standard voltage

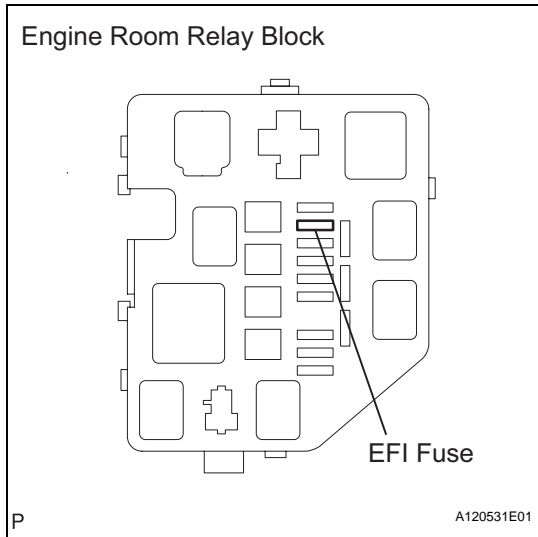
Tester Connection	Specified Condition
MREL (E3-8) - E1 (E5-3)	9 to 14 V

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REPLACE ECM

OK

7 CHECK FUSE (EFI)



- (a) Remove the EFI fuse from the engine room relay block.
- (b) Measure the resistance of the EFI fuse.

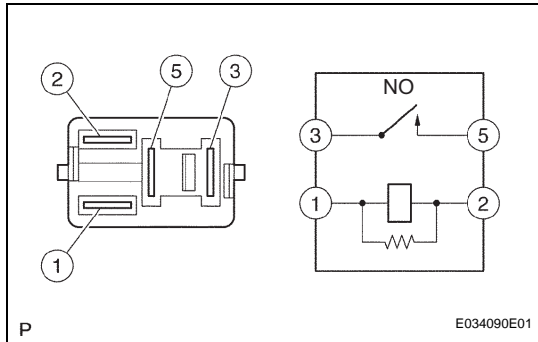
Standard resistance:
Below 1 Ω

NG CHECK FOR SHORT IN ALL HARNESSSES AND COMPONENTS CONNECTED TO FUSE

ES

OK

8 INSPECT EFI RELAY (Marking: EFI)



- (a) Remove the EFI relay from the engine room relay block.
- (b) Measure the resistance of the EFI fuse.

Standard resistance

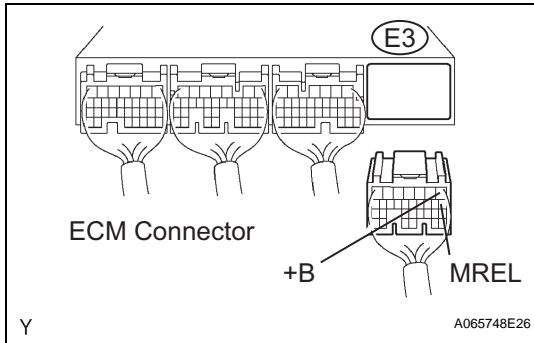
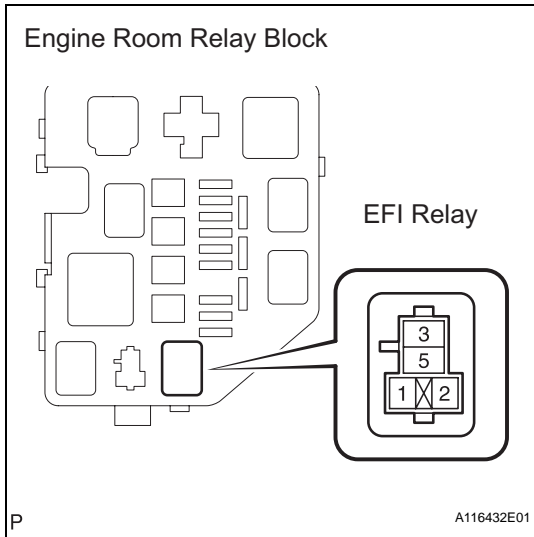
Tester Connection	Specified Condition
3 - 5	10 kΩ or higher
3 - 5	Below 1 Ω (When battery voltage is applied to terminals 1 and 2)

NG REPLACE EFI RELAY

OK

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

ES



(a) Check the harness and connector between the EFI relay and ECM.

- (1) Remove the EFI relay from the engine room relay block.

- (2) Disconnect the E3 ECM connector.
- (3) Measure the resistance of the wire harness side connectors.

Standard resistance (Check for open)

Tester Connections	Specified Conditions
Engine room relay block (EFI relay terminal 2) - MREL (E3-8)	Below 1 Ω
Engine room relay block (EFI relay terminal 3) - +B (E3-1)	Below 1 Ω

Standard resistance (Check for short)

Tester Connections	Specified Conditions
Engine room relay block (EFI relay terminal 2) or MREL (E3-8) - Body ground	10 kΩ or higher
Engine room relay block (EFI relay terminal 3) or +B (E3-1) - Body ground	10 kΩ or higher

(b) Check the harness and connector between the EFI relay and body ground.

- (1) Remove the EFI relay from the engine room relay block.
- (2) Measure the resistance of the wire harness side connector.

Standard resistance (Check for open)

Tester Connection	Specified condition
Engine room relay block (EFI relay terminal 1) - Body ground	Below 1 Ω

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE HARNESS OR CONNECTOR (TERMINAL 5 OF EFI RELAY - BATTERY POSITIVE TERMINAL)

ES