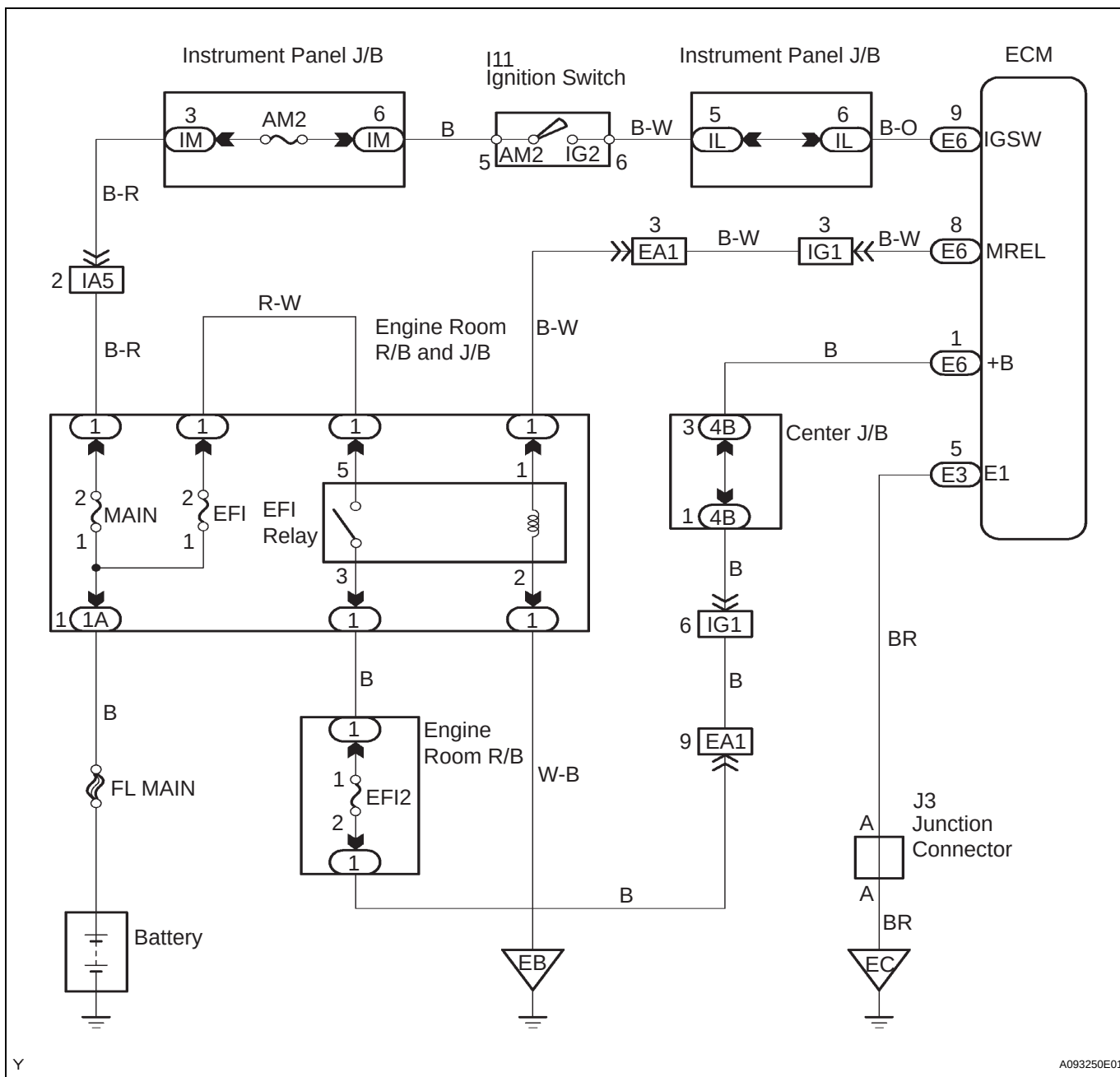


ECM Power Source Circuit

DESCRIPTION

When the ignition switch is turned to ON, the 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 and supplying power to terminal +B of the ECM.

WIRING DIAGRAM



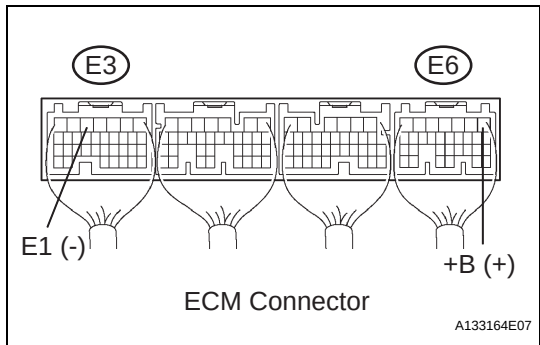
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INSPECTION PROCEDURE

1

INSPECT ECM (+B VOLTAGE)



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

Standard voltage

Tester Connections	Specified Conditions
+B (E6-1) - E1 (E3-5)	Between 9 V and 14 V

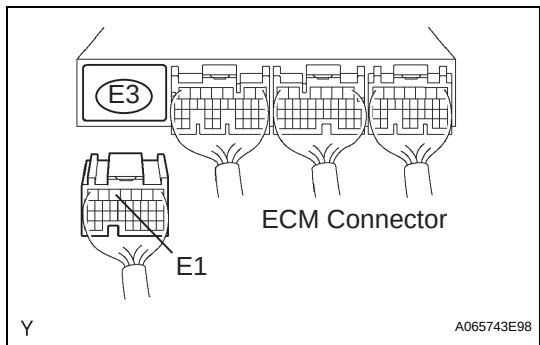
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

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2

CHECK HARNESS AND CONNECTOR (ECM - BODY GROUND)



- (a) Disconnect the negative battery cable.
- (b) Disconnect the E3 ECM connector.
- (c) Check the resistance.

Standard resistance (Check for open)

Tester Connections	Specified Conditions
E1 (E3-5) - Body ground	Below 1 Ω

- (d) Reconnect the ECM connector.
- (e) Reconnect the negative battery cable.

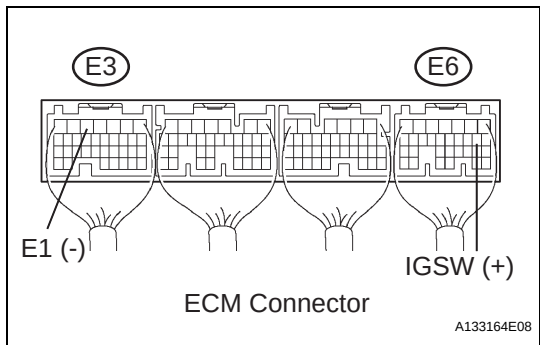
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

3

INSPECT ECM (IGSW VOLTAGE)



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

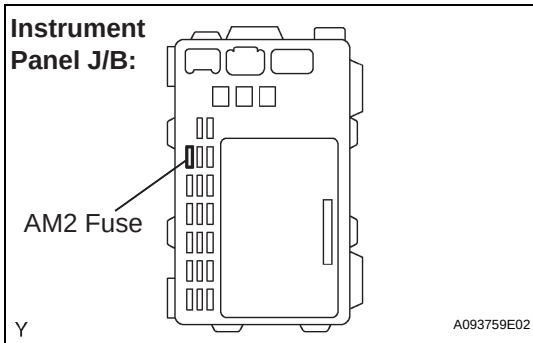
Standard voltage

Tester Connections	Specified Conditions
IGSW (E6-9) - E1 (E3-5)	Between 9 V and 14 V

OK

Go to step 6

NG

4 CHECK FUSE (AM2 FUSE)

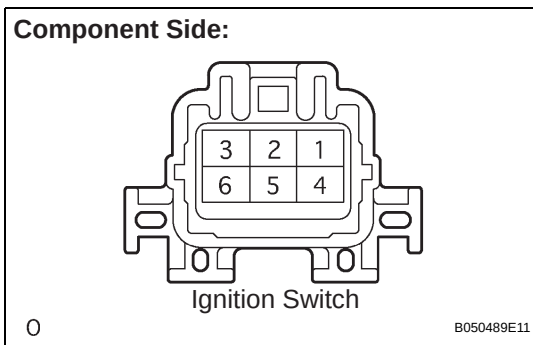
- Remove the AM2 fuse from the instrument panel J/B.
- Check the AM2 fuse resistance.

Standard resistance:**Below 1 Ω**

- Reinstall the AM2 fuse.

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CHECK FOR SHORTS IN ALL HARNESES AND CONNECTORS CONNECTED TO FUSE AND REPLACE FUSE

OK**5 INSPECT IGNITION OR STARTER SWITCH ASSEMBLY**

- Disconnect the I11 ignition switch connector.
- Check the resistance.

Standard resistance

Ignition Switch Positions	Tester Connections	Specified Conditions
LOCK	All Terminals	10 k Ω or higher
ACC	1-3	Below 1 Ω
ON	1-2, 1-3, 2-3, 5-6	Below 1 Ω
START	1-2, 4-5, 4-6, 5-6	Below 1 Ω

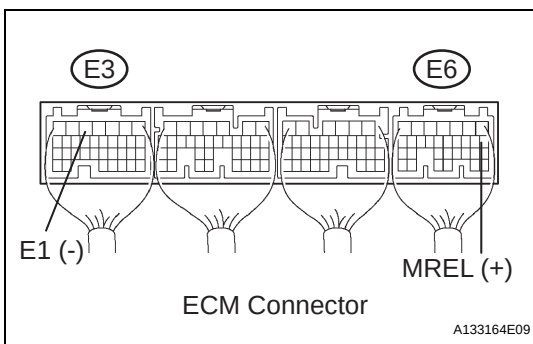
- Reconnect the ignition switch connector.

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REPLACE IGNITION OR STARTER SWITCH ASSEMBLY

OK

CHECK AND REPAIR HARNESS AND CONNECTOR (BATTERY - IGNITION SWITCH, IGNITION SWITCH - ECM)

6 INSPECT ECM (MREL VOLTAGE)

- Turn the ignition switch to ON.
- Measure the voltage between the terminals of the E3 and E6 ECM connectors.

Standard voltage

Tester Connections	Specified Conditions
MREL (E6-8) - E1 (E3-5)	Between 9 V and 14 V

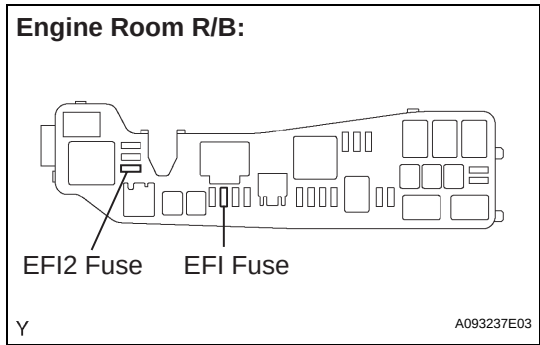
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REPLACE ECM

ES

OK

7 CHECK FUSE (EFI AND EFI2)



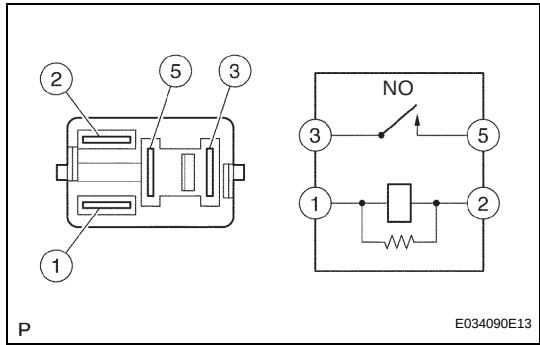
- (a) Remove the EFI and EFI2 fuses from the engine room R/B.
- (b) Check the EFI and EFI2 fuses resistance.
Standard resistance:
Below 1 Ω
- (c) Reinstall the EFI and EFI2 fuses.

NG

CHECK FOR SHORTS IN ALL HARNESSSES AND CONNECTORS CONNECTED TO FUSE AND REPLACE FUSE

OK

8 INSPECT EFI RELAY



- (a) Remove the EFI relay from the engine room R/B.
- (b) Check the EFI relay resistance.
Standard resistance

Tester Connections	Specified Conditions
3 - 5	10 kΩ or higher
3 - 5	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

- (c) Reinstall the EFI relay.

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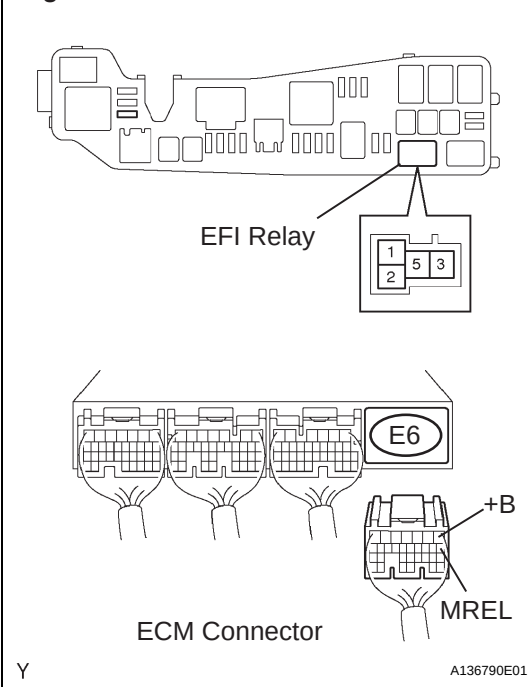
REPLACE EFI RELAY

OK

9

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

Engine Room R/B:



- (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.

Standard resistance (Check for open)

Tester Connections	Specified Conditions
Engine room R/B (EFI relay terminal 1) - MREL (E6-8)	Below 1 Ω
Engine room R/B (EFI relay terminal 3) - +B (E6-1)	Below 1 Ω

Standard resistance (Check for short)

Tester Connections	Specified Conditions
Engine room R/B (EFI relay terminal 1) or MREL (E6-8) - Body ground	10 k Ω or higher
Engine room R/B (EFI relay terminal 3) or +B (E6-1) - Body ground	10 k Ω 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.

Standard resistance (Check for open)

Tester Connections	Specified Conditions
Engine room R/B (EFI relay terminal 2) - Body ground	Below 1 Ω

- (3) Reinstall the EFI relay.

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

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

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