ECM POWER SOURCE CIRCUIT

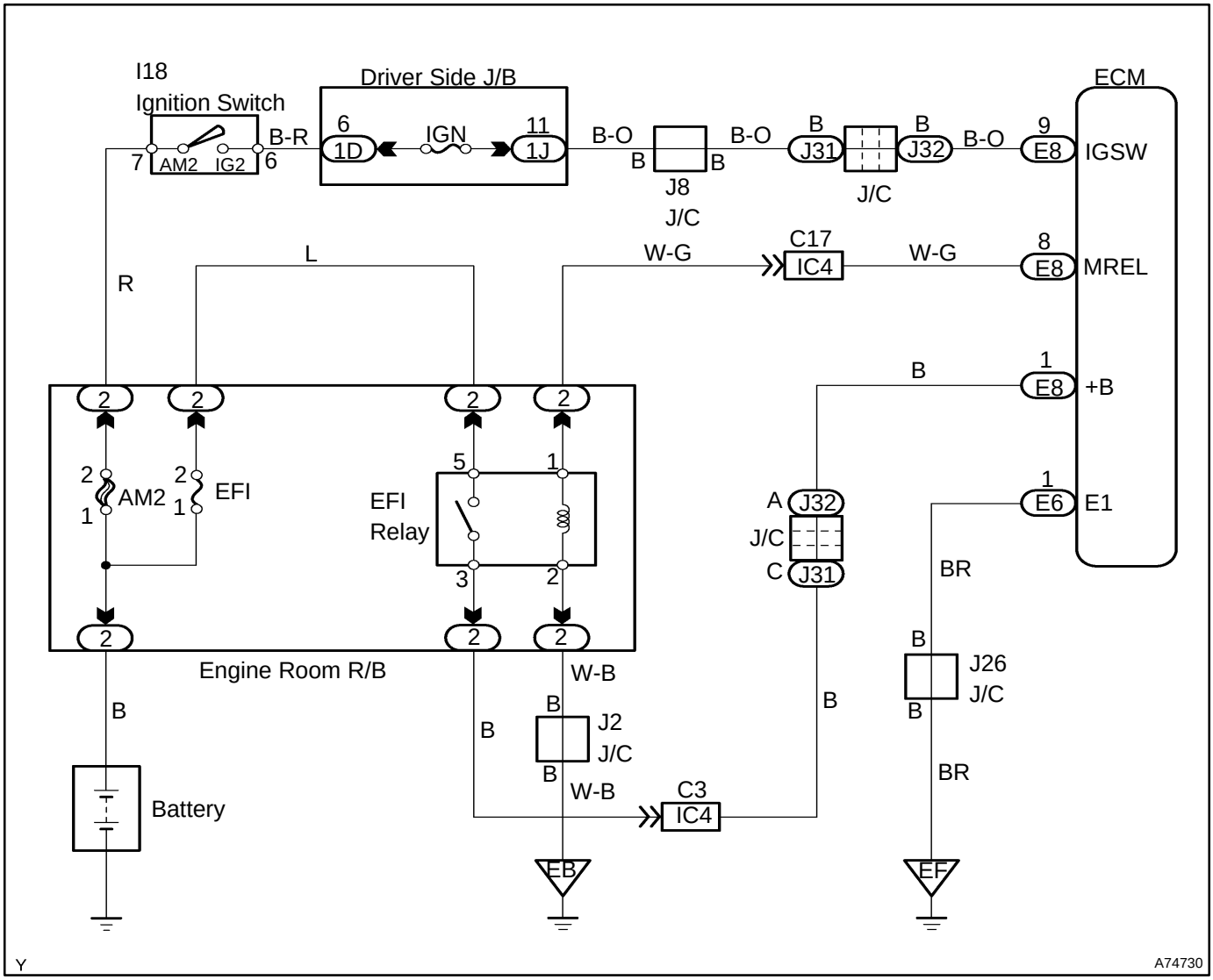
CIRCUIT DESCRIPTION

When the ignition switch is turned ON, battery positive voltage is applied to terminal IGSW of the ECM and the EFI relay (Marking: EFI) control circuit in the ECM sends a signal to terminal MREL of the ECM switching on the EFI relay.

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.

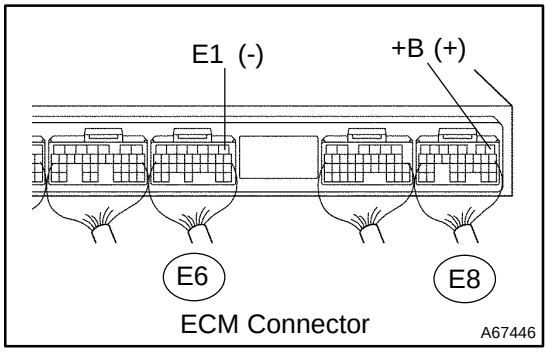
If the ignition switch is turned off, the ECM continues to switch on the EFI relay for a maximum of 2 seconds for the initial setting of the throttle valve.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT ECM(+B VOLTAGE)



(a) Turn the ignition switch ON.
(b) Measure the voltage between terminals of the E6 and E8 ECM connectors.

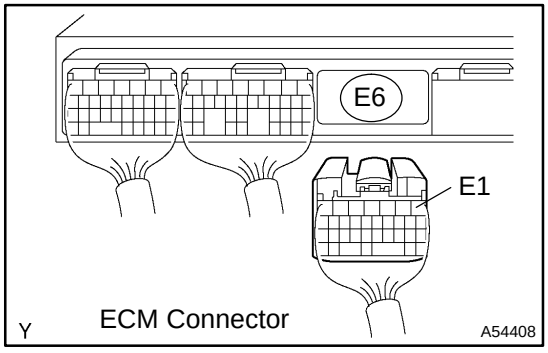
Standard:

Symbols (Terminal No.)	Specified condition
+B (E8-1) ⇔ E1 (E6-1)	9 - 14 V

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-29)**

NG

2 CHECK HARNESS AND CONNECTOR(ECM - BODY GROUND)



(a) Disconnect the E6 ECM connector.
(b) Check the continuity between the wire harness side connectors.

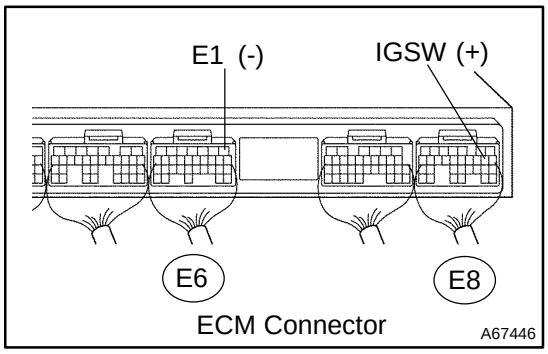
Standard (Check for open):

Symbols (Terminal No.)	Specified condition
E1 (E6-1) ⇔ Body ground	Continuity

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

OK

3 INSPECT ECM(IGSW VOLTAGE)



(a) Turn the ignition switch ON.
(b) Measure the voltage between terminals of the E6 and E8 ECM connectors.

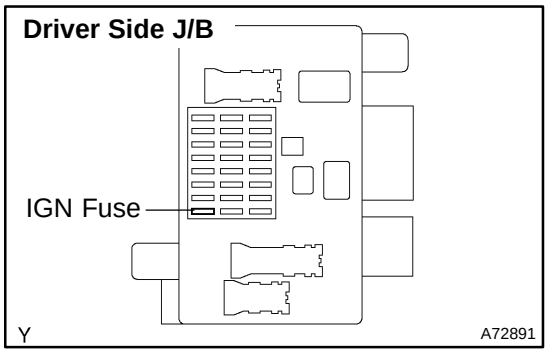
Standard:

Symbols (Terminal No.)	Specified condition
IGSW (E8-9) ⇔ E1 (E6-1)	9 - 14 V

OK → **Go to step 6**

NG

4 CHECK FUSE(IGN FUSE)

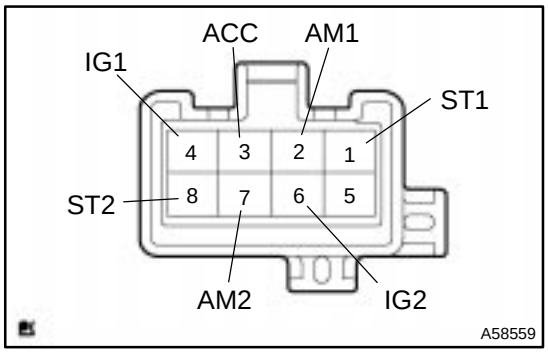


(a) Remove the IGN fuse from the driver side J/B.
(b) Check the continuity of IGN fuse.
Standard: Continuity

NG → **CHECK FOR SHORT IN ALL HARNESS AND COMPONENTS CONNECTED IGN FUSE**

OK

5 INSPECT IGNITION OR STARTER SWITCH ASSY



(a) Check continuity between the connector terminals shown in the chart below.
Standard:

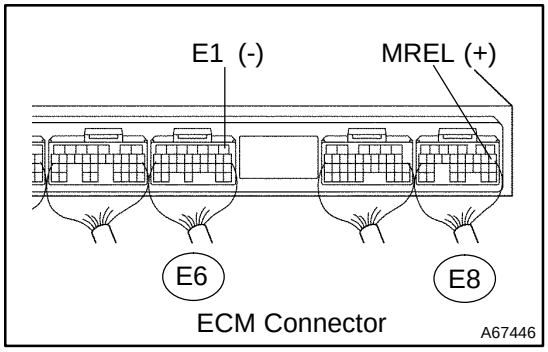
Switch position	Terminal No.	Specified condition
LOCK	All terminal to terminal	No continuity
ACC	2 ⇔ 3	Continuity
ON	2 ⇔ 3 ⇔ 4 6 ⇔ 7	Continuity
START	1 ⇔ 2 ⇔ 4 6 ⇔ 7 ⇔ 8	Continuity

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

OK

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

6 INSPECT ECM(MREL VOLTAGE)



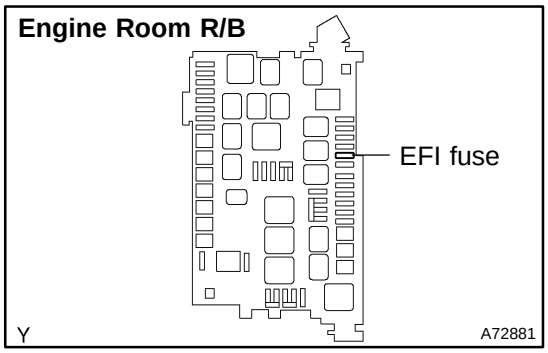
(a) Turn the ignition switch ON.
(b) Measure the voltage between terminals of the E6 and E8 ECM connectors.
Standard:

Symbols (Terminal No.)	Specified condition
MREL (E8-8) ⇔ E1 (E6-1)	9 - 14 V

NG → **CHECK AND REPLACE ECM (See page 01-35)**

OK

7 CHECK FUSE(EFI FUSE)

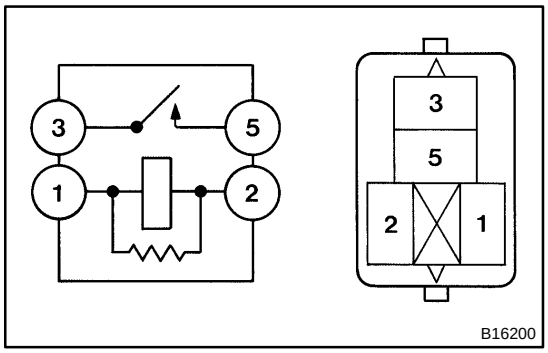


(a) Remove the EFI fuse from the engine room R/B.
(b) Check the continuity of EFI fuse.
Standard: Continuity

NG → **CHECK FOR SHORT IN ALL HARNESS AND COMPONENTS CONNECTED EFI FUSE**

OK

8 INSPECT EFI RELAY



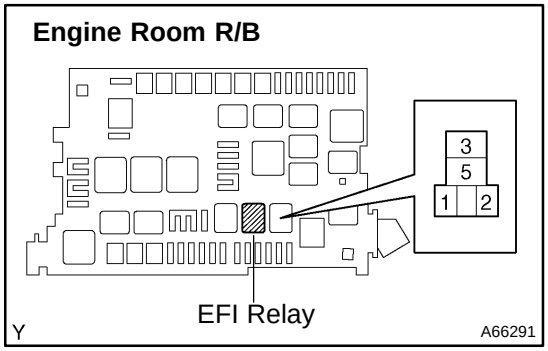
(a) Remove the EFI relay from the engine room R/B.
(b) Inspect the EFI relay.
Standard:

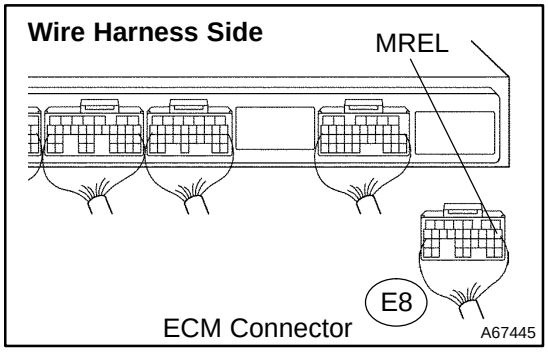
Terminal No.	Condition	Specified condition
1 ⇔ 2	Constant	Continuity
3 ⇔ 5	Usually	No Continuity
	Apply B+ between Terminals 1 and 2	Continuity

NG → **REPLACE EFI RELAY**

OK

9 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 E8 ECM connector.
(3) Check the continuity between the wire harness side connectors.
Standard (Check for open):

Symbols (Terminal No.)	Specified condition
EFI relay (1) ⇔ MREL (E8-8)	Continuity

Standard (Check for short):

Symbols (Terminal No.)	Specified condition
EFI relay (1) or MREL (E8-8) ⇔ Body ground	No continuity

(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 continuity between the wire harness side connector and body ground.

Standard (Check for open):

Symbols (Terminal No.)	Specified condition
EFI relay (2) ⇔ Body ground	Continuity

OK → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

NG

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