ECM POWER SOURCE CIRCUIT

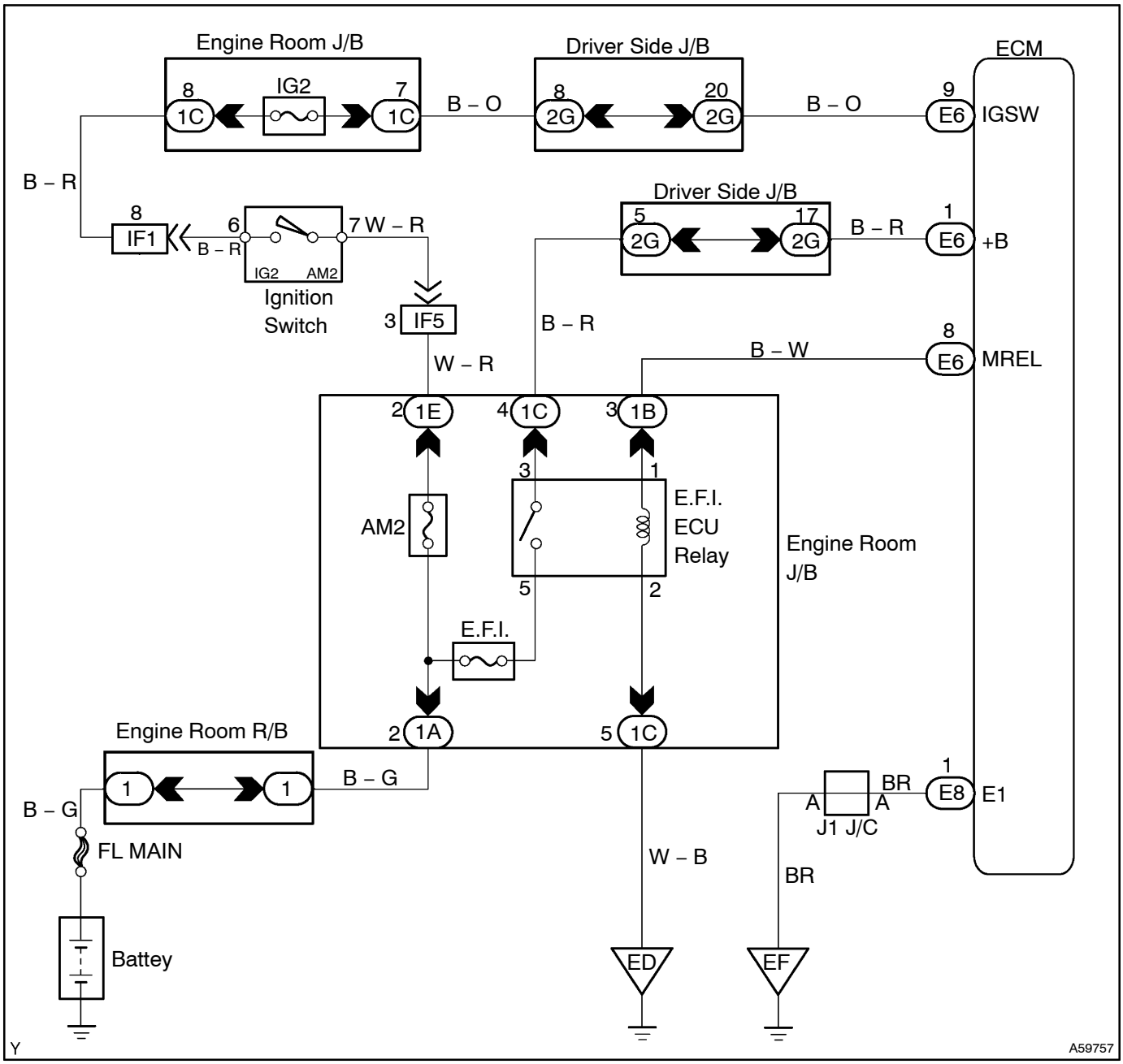
CIRCUIT DESCRIPTION

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

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

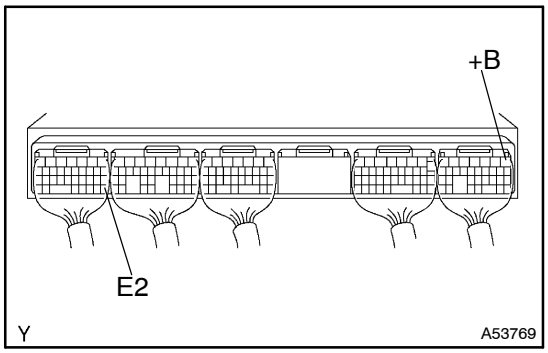
If the ignition switch is turned off, the ECM continues to switch on the E.F.I. ECU relay for a maximum of 2 seconds for the initial setting of the IAC valve.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT ECM

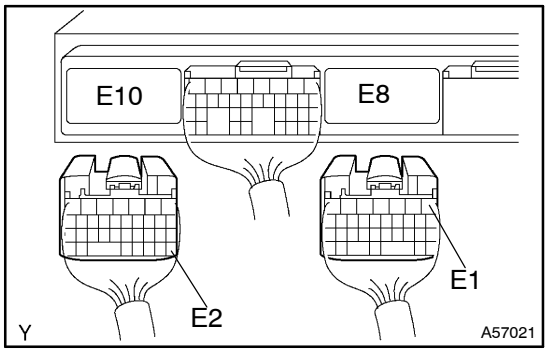


(a) Turn the ignition switch ON.
(b) Measure the voltage between terminals +B and E2 of the ECM connectors.
Voltage: 9 – 14 V

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

NG

2	CHECK HARNESS AND CONNECTOR(E1, E2 – BODY EARTH)

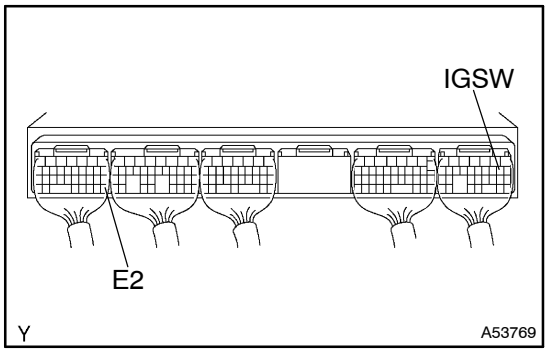


(a) Disconnect the ECM E10 and E8 connector.
(b) Check for open between the terminals E1 and E2 of the ECM connector and Body ground.
Resistance: 1 Ω or less

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

OK

3	INSPECT ECM

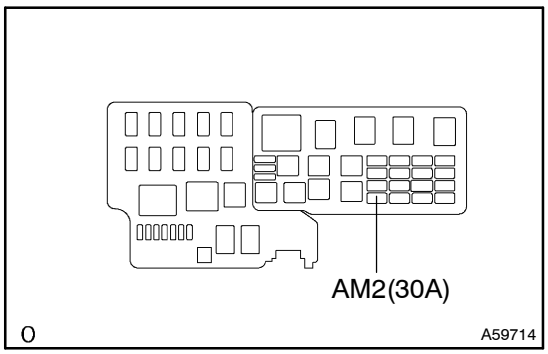


(a) Turn the ignition switch ON.
(b) Measure the voltage between terminal IGSW and E2 of the ECM connector.
Voltage: 9 – 14 V

OK → **Go to step 6**

NG

4 CHECK FUSE(AM2)

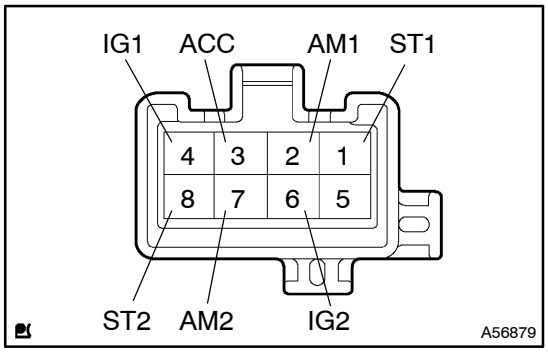


(a) Remove the AM2 fuse from the engine room J/B.
(b) Check the continuity of the AM2 fuse.

NG → **CHECK FOR SHORT IN ALL HARNESS AND COMPONENTS CONNECTED AM2 FUSE**

OK

5 CHECK IGNITION OR STARTER SWITCH ASSY



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

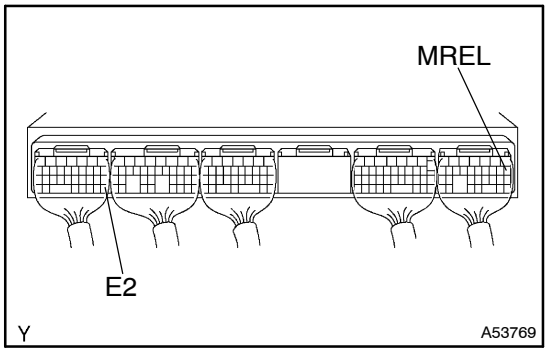
Switch	Terminal No.	Resistance
LOCK	All Terminal to Terminal	1MΩ or more
ACC	2⇔3	1Ω or less
ON	2⇔3⇔4 6⇔7	1Ω or less
START	1⇔2⇔4 6⇔7⇔8	1Ω or less

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

OK

REPAIR OR REPLACE HARNESS AND CONNECTOR

6 INSPECT ECM



(a) Turn the ignition switch ON.
(b) Measure the voltage between terminal MREL and E2 of the ECM connector.
Voltage: 9 – 14 V

NG → **CHECK AND REPLACE ECM**

OK

7 CHECK FUSE(E.F.I.)

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

OK

8	CHECK E.F.I ECU RELAY (See page 10–14)

NG → REPLACE E.F.I ECU RELAY

OK

9	CHECK HARNESS AND CONNECTOR(MREL – E2)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPAIR OR REPLACE HARNESS AND CONNECTOR