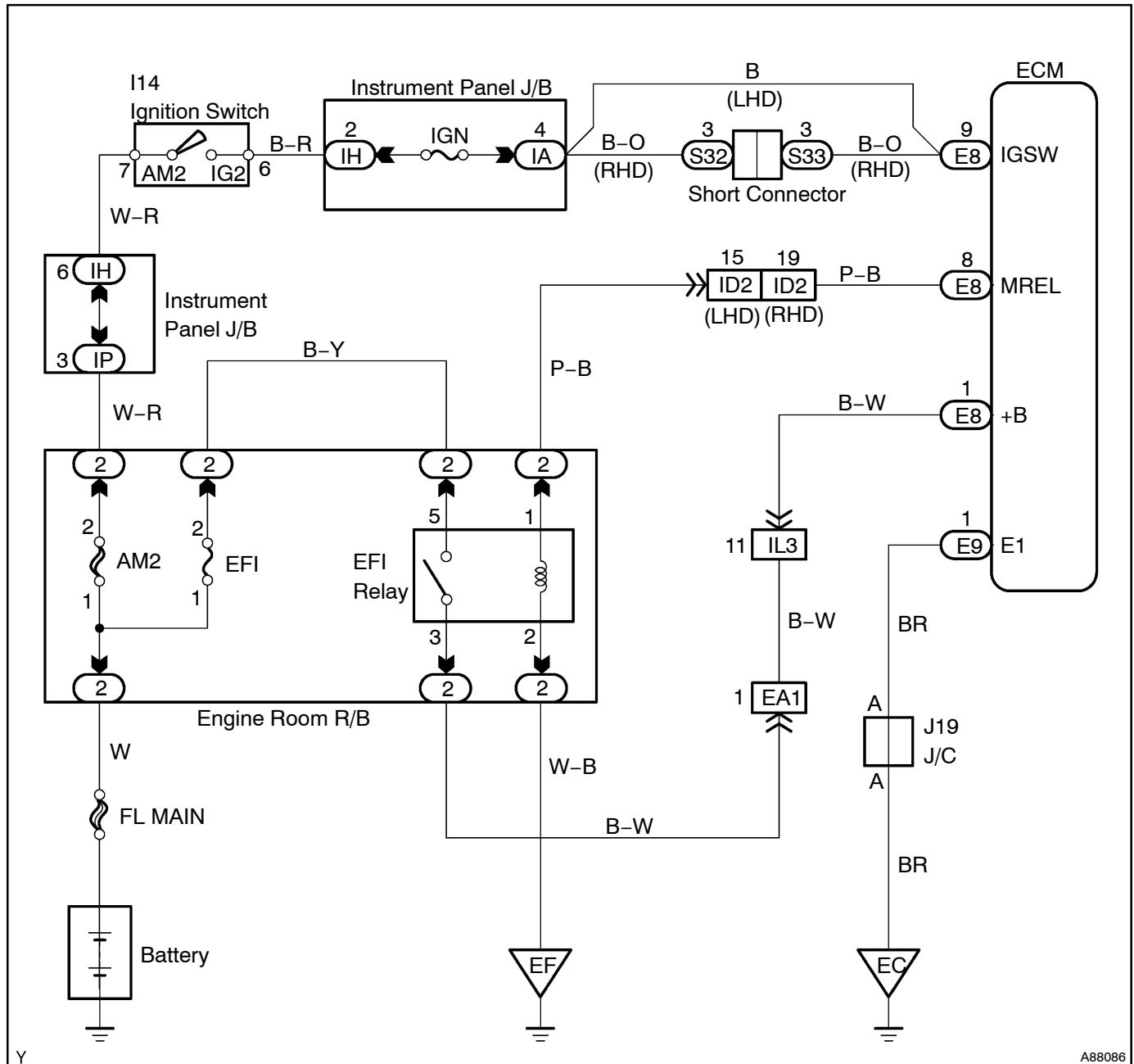


ECM POWER SOURCE CIRCUIT

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.

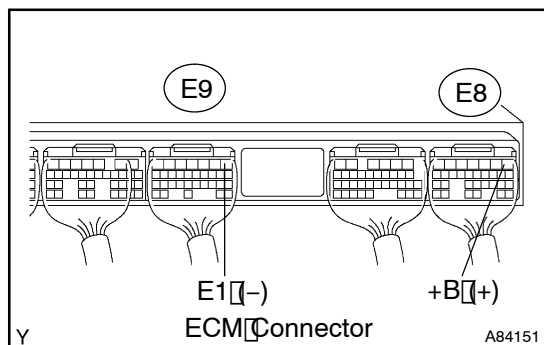
WIRING DIAGRAM



A88086

INSPECTION PROCEDURE

1 INSPECT ECM(+B VOLTAGE)



- (a) Turn the ignition switch to ON.
 (b) Measure the voltage between the terminals of the E8 and E9 ECM connectors.

Standard:

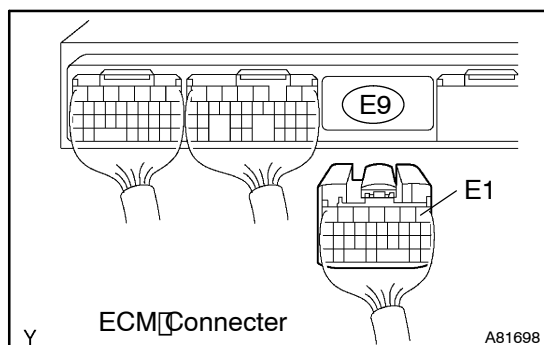
Tester Connection	Specified Condition
+B (E8-1) - E1 (E9-1)	9 to 14 V

OK

**PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN ON PROBLEM SYMPTOMS TABLE
(See page 05-12)**

NG

2 CHECK HARNESS AND CONNECTOR (ECM - BODY GROUND)



- (a) Disconnect the negative (-) battery cable.
 (b) Disconnect the E9 ECM connector.
 (c) Check the resistance.

Standard (Check for open):

Tester Connection	Specified Condition
E1 (E9-1) - Body ground	Below 1 Ω

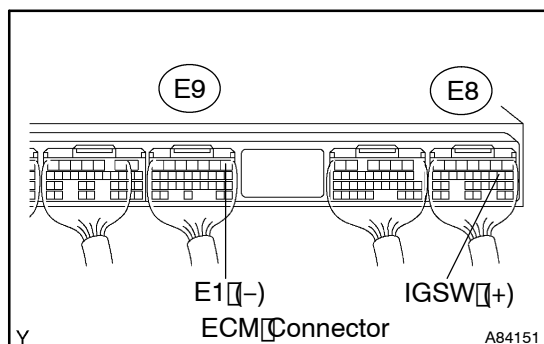
- (d) Reconnect the ECM connector.
 (e) Reconnect the negative battery cable.

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 E9 and E11 ECM connectors.

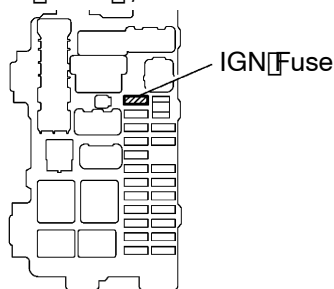
Standard:

Tester Connection	Specified Condition
IGSW (E8-9) - E1 (E9-1)	9 to 14 V

OK

Go to step 6

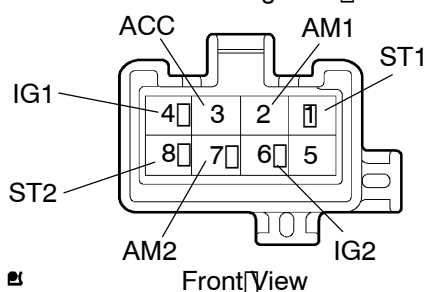
NG

4 CHECK FUSE (IGN FUSE)**Instrument Panel J/B:**

O A89020

A88113

- (a) Remove the IGN fuse from the instrument panel J/B.
 (b) Check the IGN fuse resistance.
Standard: Below 1 Ω
 (c) Reinstall the IGN fuse.

NG**CHECK FOR SHORT IN ALL HARNESSES AND COMPONENTS CONNECTED TO FUSE****OK****5 INSPECT IGNITION OR STARTER SWITCH ASSY****Component Side: Ignition Switch**

A

Front View

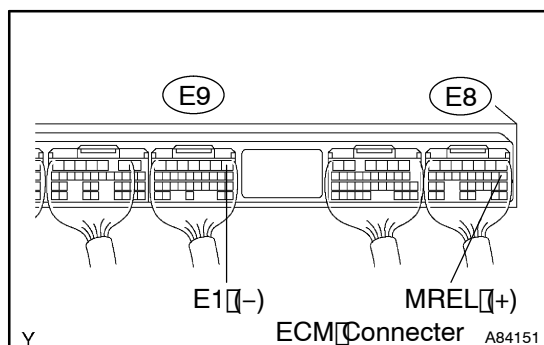
A87913

- (a) Disconnect the 14 Ignition switch connector.
 (b) Measure the resistance between the connector terminals shown in the table below.

Standard:

Switch Position	Tester Connection	Specified Condition
LOCK	All Terminals	10 $k\Omega$ or higher
ACC	2-3	Below 1 Ω
ON	2-3, 2-4, 6-7	Below 1 Ω
START	1-2, 2-4, 6-7, 6-8	Below 1 Ω

- (c) Reconnect the Ignition switch connector.

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)**

Y

ECM Connector A84151

- (a) Turn the Ignition switch to ON.
 (b) Measure the voltage between the terminals of the E8 and E9 ECM connectors.

Standard:

Tester Connection	Specified Condition
MREL (E8-8) - E1 (E9-1)	9 to 14 V

NG**REPLACE ECM (See page 10-30)****OK**

7 CHECK FUSE(EFI FUSE)

Engine Room R/B:



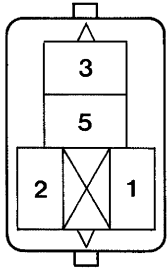
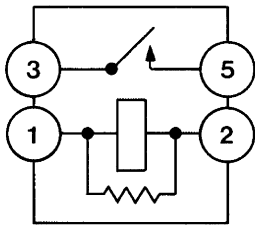
- (a) Remove the EFI fuse from the engine room R/B.
- (b) Check the EFI fuse resistance.
Standard: Below 1 Ω
- (c) Reinstall the EFI fuse.

NG

CHECK FOR SHORT IN ALL HARNESSSES AND COMPONENTS CONNECTED TO FUSE

OK

8 INSPECT EFI RELAY



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

Standard:

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

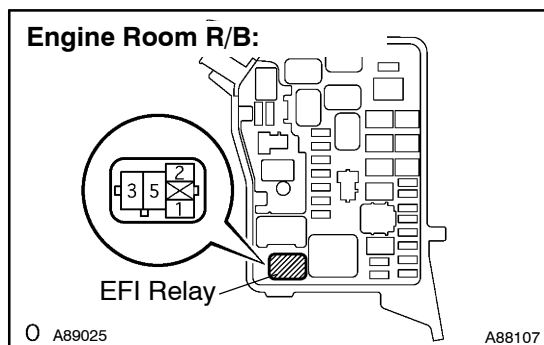
- (c) Reinstall the EFI relay.

NG

REPLACE EFI RELAY

OK

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



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

- (1) Remove the EFI relay from the engine room R/B.
- (2) Disconnect the E8 ECM connector.
- (3) Check the resistance.

Standard (Check for open):

Tester Connection	Specified Condition
Engine room R/B (EFI relay terminal 1) - MREL (E8-8)	Below 1 Ω
Engine room R/B (EFI relay terminal 3) - +B (E8-1)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
Engine room R/B (EFI relay terminal 1) or MREL (E8-8) - Body ground	10 k Ω or higher
Engine room R/B (EFI relay terminal 3) or +B (E8-1) - Body ground	10 k Ω or higher

- (4) Reinstall the EFI relay.
- (5) Reconnect the ECM connector.

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

- (1) Remove the EFI relay from the engine room R/B.
- (2) Check the resistance.

Standard (Check for open):

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

- (3) Reinstall the EFI relay.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

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