DTC P0560 SYSTEM VOLTAGE

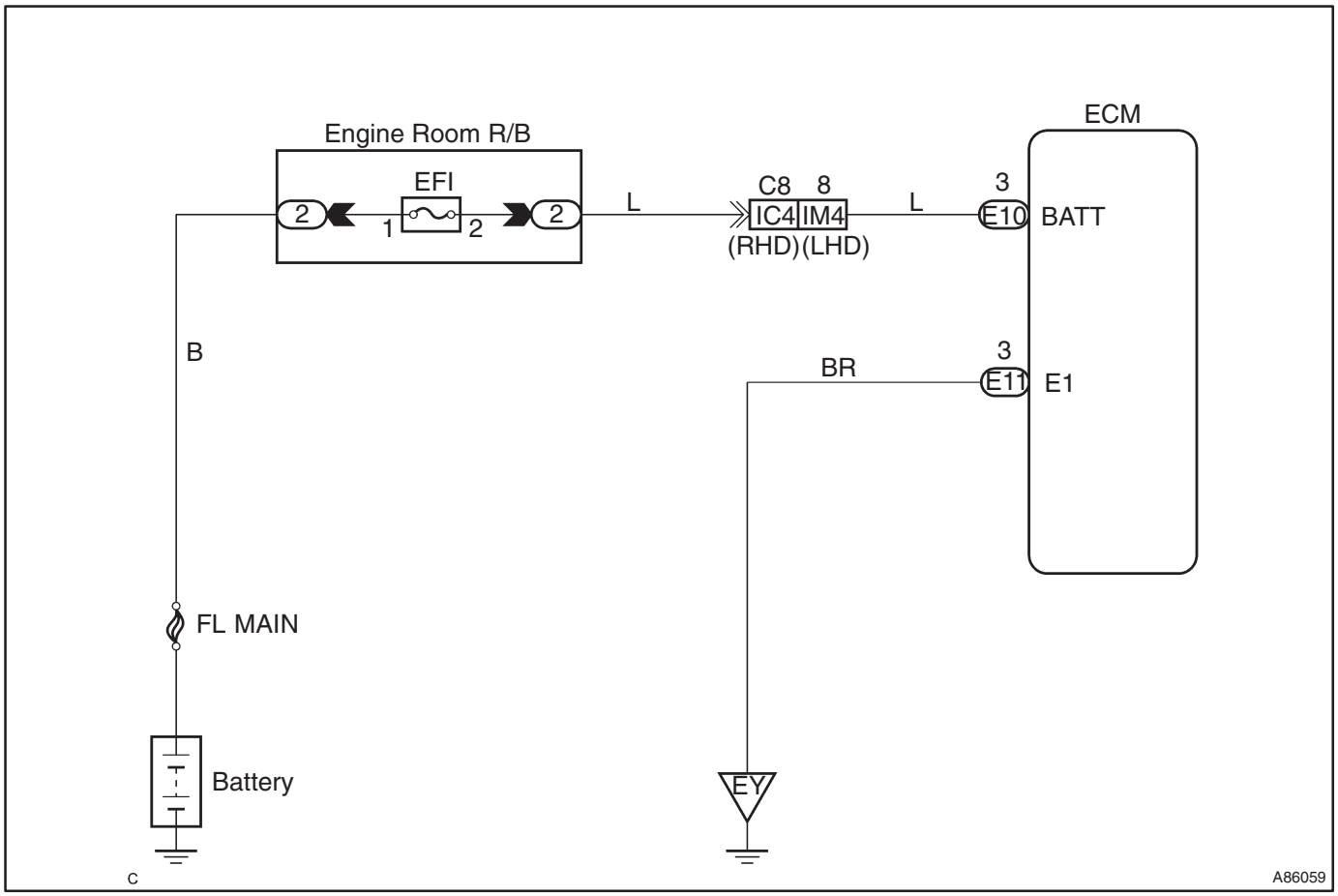
CIRCUIT DESCRIPTION

The battery supplies electricity to terminal BATT of the ECM even when the ignition switch is OFF. This electricity allows the ECM to store DTC histories, freeze frame data, fuel trim values, and other data.

DTC No.	DTC Detection Condition	Trouble Area
P0560	Open in backup power source circuit	• Open in backup power source circuit • ECM

HINT:
If DTC P0560 is set, the ECM does not store other DTCs.

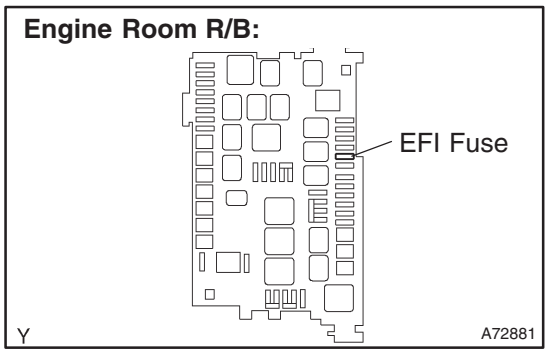
WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Read freeze frame data using the intelligent tester II. Freeze frame data record the engine condition when malfunctions are detected. When troubleshooting, freeze frame data can help determine if the vehicle was moving or stationary, if the engine was warmed up or not, if the air–fuel ratio was lean or rich, and other data from the time the malfunction occurred.

1 CHECK FUSE(EFI FUSE)

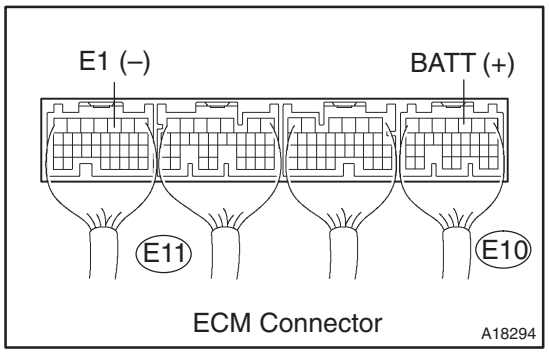


(a) Remove the EFI fuse from the engine room R/B.
(b) Check the EFI fuse resistance.
Standard: Below 1 Ω
(c) Reinstall the EFI fuse.

NG → **CHECK FOR SHORT IN ALL HARNESS AND COMPONENTS CONNECTED TO FUSE, AND REPLACE FUSE**

OK

2 INSPECT ECM(BATT VOLTAGE)



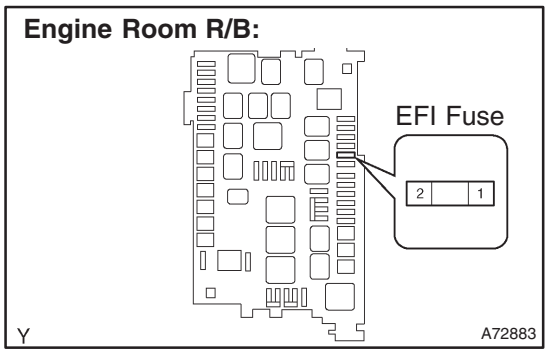
(a) Measure the voltage according to the value(s) in the table below.
Standard:

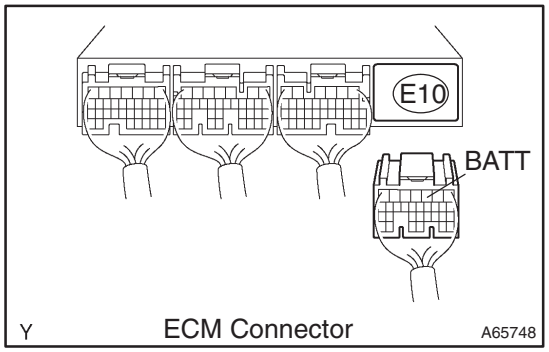
Tester Connection	Specified Condition
BATT (E10–3) – E1 (E11–3)	9 to 14 V

OK → **REPLACE ECM (See page 10–12)**

NG

3 CHECK HARNESS AND CONNECTOR(ECM – EFI FUSE, EFI FUSE – BATTERY)





(a) Check the harness and the connectors between the EFI fuse and ECM.
  (1) Remove the EFI fuse from the engine room R/B.
  (2) Disconnect the E10 ECM connector.
  (3) Measure the resistance according to the value(s) in the table below.

Standard (Check for open):

Tester Connection	Specified Condition
EFI fuse (2) – BATT (E10–3)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
EFI fuse (2) or BATT (E10–3) – Body ground	10 kΩ or higher

  (4) Reinstall the EFI fuse.
  (5) Reconnect the ECM connector.

(b) Check the harness and the connector between the EFI fuse and battery.
  (1) Remove the EFI fuse from the engine room R/B.
  (2) Disconnect the battery negative cable.
  (3) Measure the resistance according to the value(s) in the table below.

Standard (Check for open):

Tester Connection	Specified Condition
Battery positive cable terminal – EFI fuse (1)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
Battery positive cable terminal or EFI fuse (1) – Body ground	10 kΩ or higher

  (4) Reinstall the EFI fuse.
  (5) Reconnect the battery negative cable.

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

OK

CHECK AND REPLACE ENGINE ROOM RELAY BLOCK