DTC P0560 SYSTEM VOLTAGE

CIRCUIT DESCRIPTION

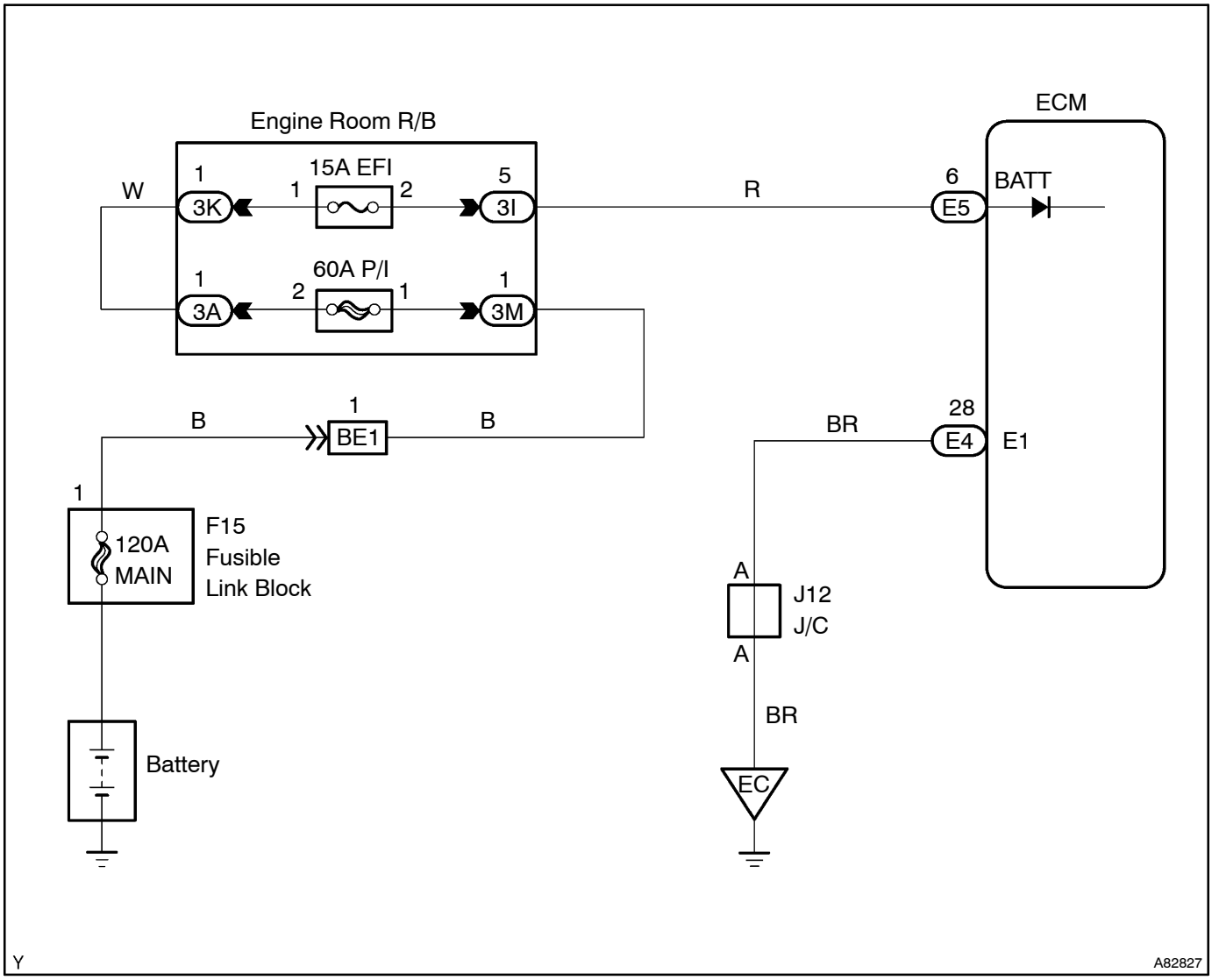
The battery supplies electricity to the ECM even if the ignition switch is OFF. This electricity allows the ECM to store DTC history, freeze frame data, fuel trim values, and other data. If the battery voltage falls below a minimum level, the ECM will conclude that there is a fault in the power supply circuit. The next time the engine starts, the ECM will turn on the CHK ENG and a DTC will be set.

DTC No.	DTC Detection Condition	Trouble Area
P0560	Open in back–up power source circuit	• Open in back–up power source circuit • ECM

HINT:

If DTC P0560 is present, the ECM will not store other DTCs.

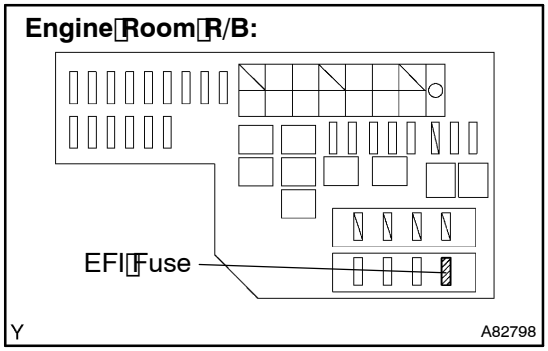
WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Read freeze frame data using the intelligent tester II. Freeze frame data records the engine condition when malfunction is detected. When troubleshooting, freeze frame data can help determine if the vehicle was running or stopped, 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)

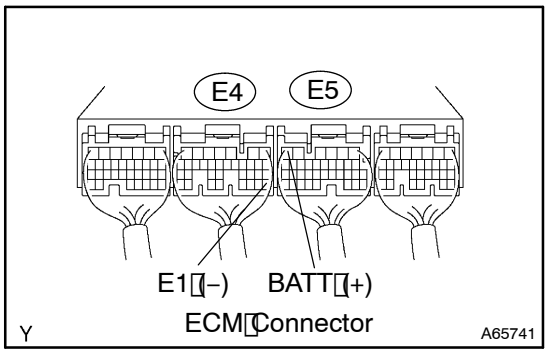


(a) Remove the EFI fuse from the engine room R/B.
(b) Check the resistance of the EFI fuse.
Standard: Below 1 Ω
(c) Reinstall the EFI fuse.

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

OK

2 INSPECT ECM(BATT VOLTAGE)



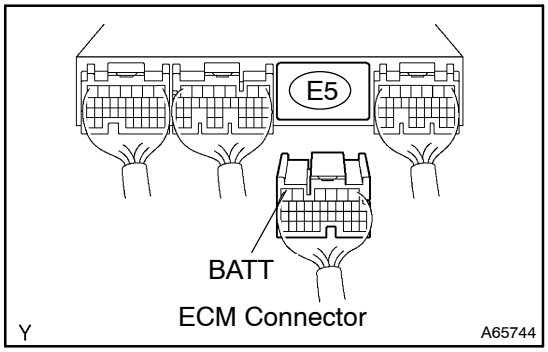
(a) Measure the voltage between the specified terminals of the E4 and E5 ECM connectors.
Standard:

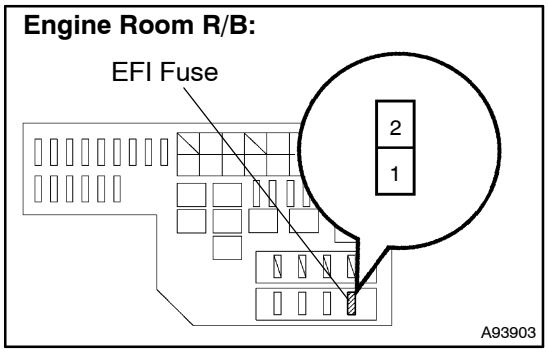
Tester Connection	Specified Condition
BATT (E5–6) – E1 (E4–28)	9 to 14 V

OK → **REPLACE ECM (See page 10–24)**

NG

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





(a) Check the harness and the connectors between the EFI fuse and the ECM connector.
  (1) Remove the integration relay from the engine room R/B.
  (2) Disconnect the E5 ECM connector.
  (3) Check the resistance between the wire harness side connectors.

Standard (Check for open):

Tester Connection	Specified Condition
EFI fuse (2) – BATT (E5–6)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
EFI fuse (2) or BATT (E5–6) – Body ground	10 kΩ or higher

  (4) Reinstall the integration relay.
  (5) Reconnect the ECM connector.

(b) Check the harness and the connectors between the EFI fuse and the battery.
  (1) Remove the integration relay from the engine room R/B.
  (2) Disconnect the positive battery terminal.
  (3) Check the resistance between the wire harness side connectors.

Standard (Check for open):

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

Standard (Check for short):

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

  (4) Reinstall the integration relay.
  (5) Reconnect the positive battery terminal.

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

OK

CHECK AND REPLACE ENGINE ROOM RELAY BLOCK