DTC	P0560	SYSTEM VOLTAGE

CIRCUIT DESCRIPTION

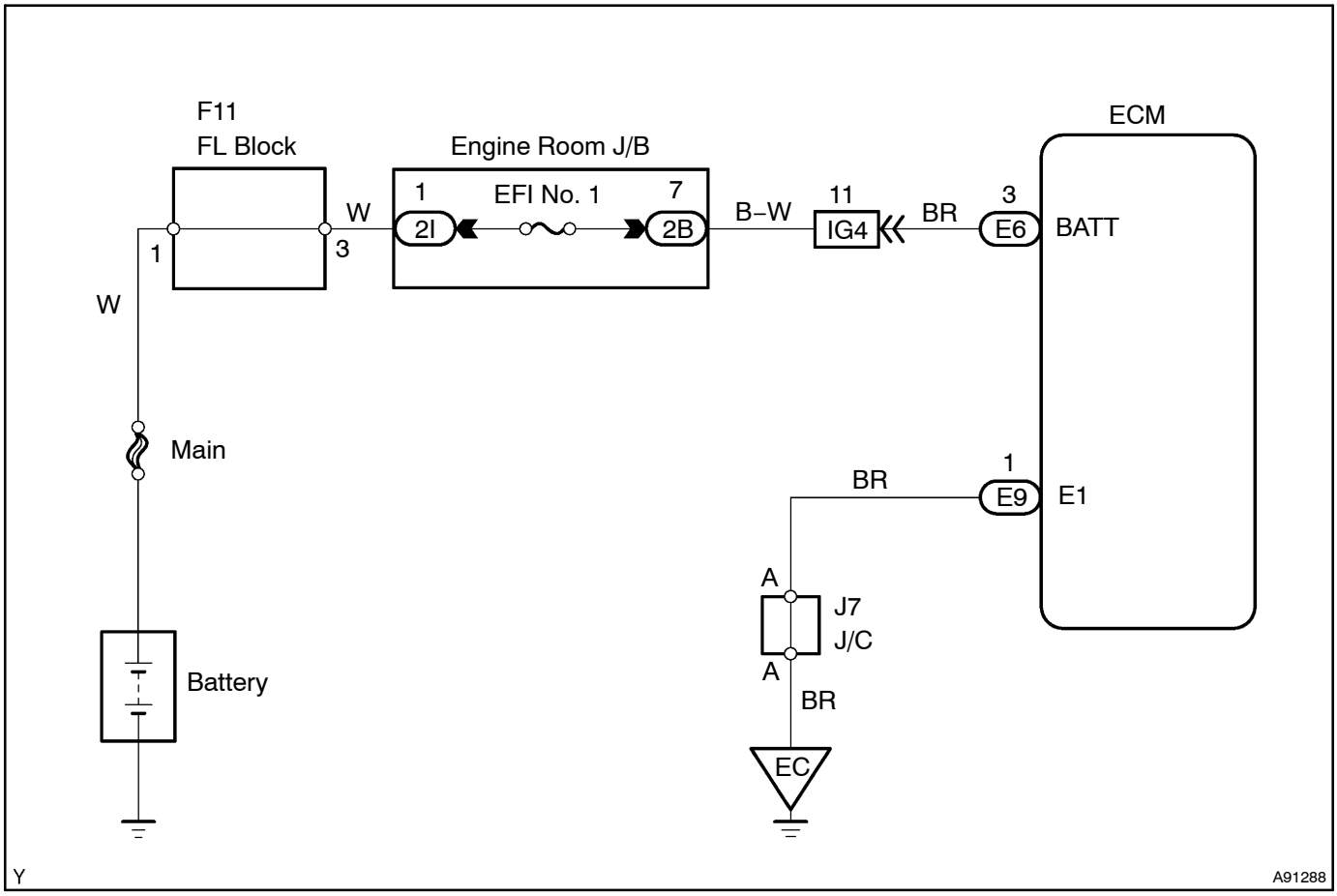
The battery supplies electricity to the ECM even when the ignition switch is OFF. This electricity allows the ECM store data such as DTC history, freeze frame data, fuel trim values, and other data. If the battery voltage falls below a minimum level, the ECM will conclude that there is a fault in the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

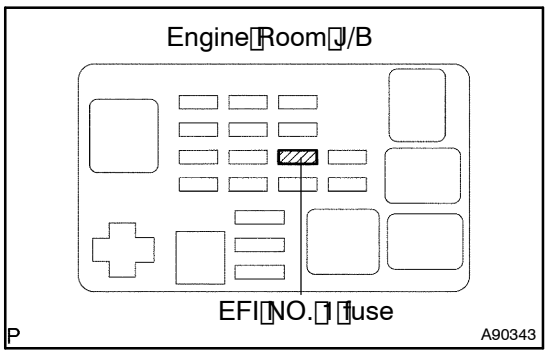


INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand–held tester. Freeze frame data records the engine conditions when a 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 NO. 1 FUSE)

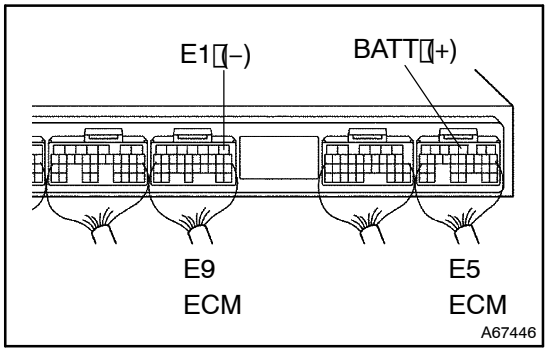


(a) Remove the EFI NO. 1 fuse from the Engine Room J/B.
(b) Check the resistance of the EFI NO. 1 fuse.
Standard: Below 1 Ω

NG → **REPLACE FUSE**

OK

2 INSPECT ECM (BATT VOLTAGE)



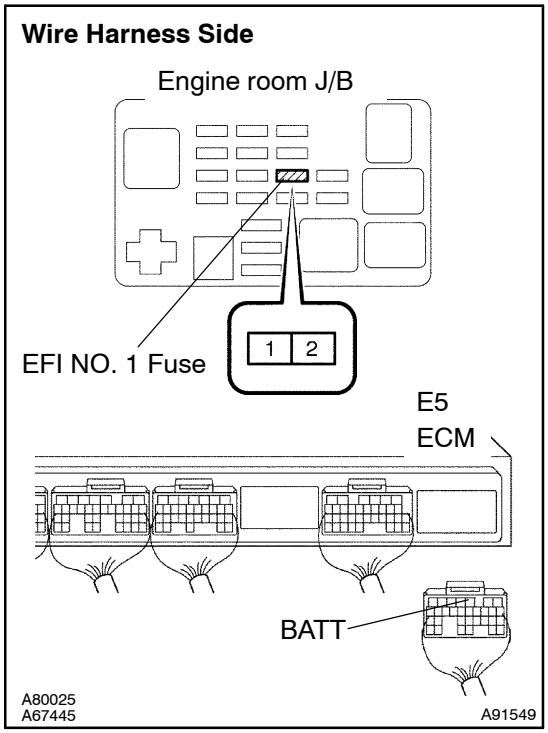
(a) Check the voltage of the ECM connectors.
Standard:

Tester Connection	Specified Condition
E5–3 (BATT) – E9–1 (E1)	9 to 14 V

OK → **REPLACE ECM (See page 10–13)**

NG

3	CHECK WIRE HARNESS (ECM – EFI NO. 1 FUSE, EFI NO. 1 FUSE – BATTERY)



(a) Check the wire harness between the EFI NO. 1 fuse and ECM.
  (1) Remove the EFI No. 1 fuse from the engine room J/B.
  (2) Disconnect the E5 ECM connector.
  (3) Check the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
J/B EFI No. 1 fuse terminal 2 – E5–3 (BATT)	Below 1 Ω
J/B EFI No. 1 fuse terminal 2 or E5–3 (BATT) – Body ground	10 kΩ or higher

(b) Check the wire harness between the EFI NO. 1 fuse and battery.
  (1) Remove the EFI NO. 1 fuse from the engine room J/B.
  (2) Disconnect the battery positive cable.
  (3) Check the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
Battery positive cable – J/B EFI No. 1 fuse terminal 1	Below 1 Ω
Battery positive cable or J/B EFI No. 1 fuse terminal 1 – Body ground	10 kΩ or higher

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

OK

CHECK AND REPLACE ENGINE ROOM JUNCTION BLOCK