DTC	P0560	SYSTEM VOLTAGE

MONITOR 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 (1 trip detection logic)	• Open in back−up power source circuit • ECM

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

MONITOR STRATEGY

Related DTCs	P0560: ECM System Voltage
Required sensors / components (Main)	ECM
Required sensors / components (Related)	−
Frequency of operation	Continuous
Duration	3 seconds
MIL operation	Immediate (MIL will illuminate after the next engine start)
Sequence operation	None

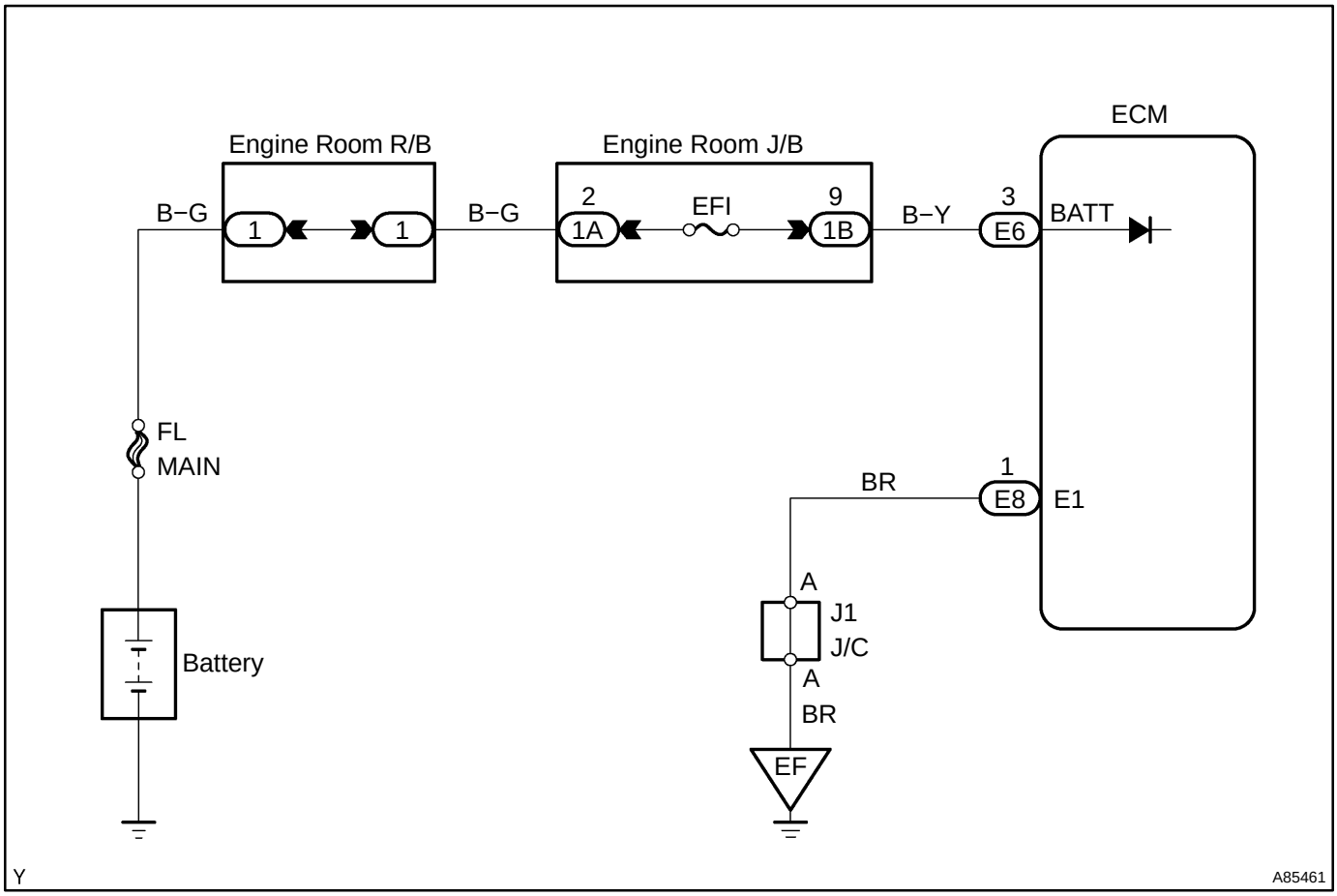
TYPICAL ENABLING CONDITIONS

The monitor will run whenever these DTCs are not present	See page 05−507

TYPICAL MALFUNCTION THRESHOLDS

ECM power source	Less than 3.5 V

WIRING DIAGRAM

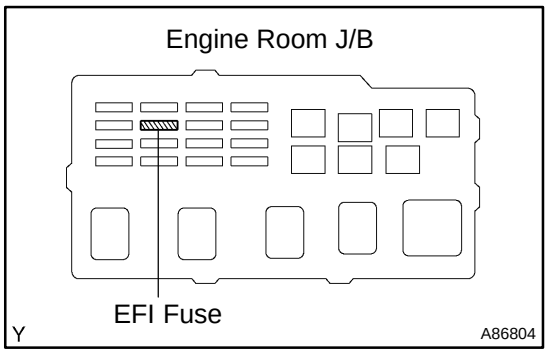


INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand−held tester or the OBD II scan tool. 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	INSPECT FUSE (EFI)



(a) Remove the EFI fuse from the engine room J/B.

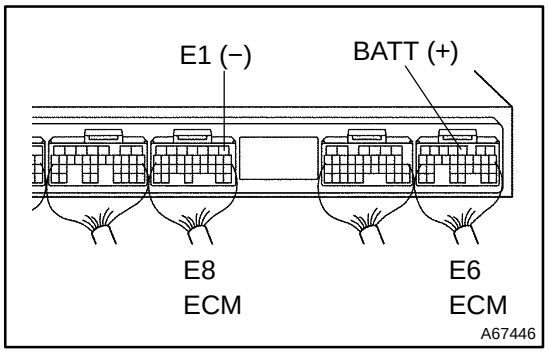
(b) Check the resistance of the EFI fuse.

Standard: Below 1Ω

NG → **REPLACE FUSE**

OK

2 INSPECT ECM (BATT VOLTAGE)



(a) Check the voltage of the ECM connectors.

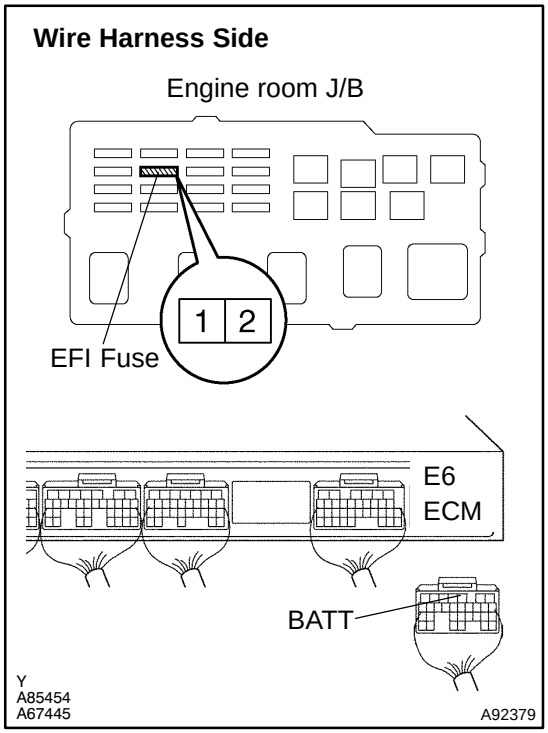
Standard:

Tester Connection	Specified Condition
E6−3 (BATT) − E8−1 (E1)	9 to 14 V

OK → **REPLACE ECM (See page 10−25)**

NG

3 CHECK WIRE HARNESS (ECM − EFI FUSE, EFI FUSE − BATTERY)



(a) Check the wire harness between the EFI fuse and ECM.
(1) Remove the EFI fuse from the engine room J/B.
(2) Disconnect the E6 ECM connector.
(3) Check the resistance of the wire harness side connectors.

Standard:

Tester Connection	Specified Condition
J/B EFI fuse terminal 2 − E6−3 (BATT)	Below 1 Ω
J/B EFI fuse terminal 2 or E6−3 (BATT) − Body ground	10 kΩ or higher

(b) Check the wire harness between the EFI fuse and battery.
(1) Remove the EFI 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 fuse terminal 1	Below 1 Ω
Battery positive cable or J/B EFI fuse terminal 1 − Body ground	10 kΩ or higher

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

OK

CHECK AND REPLACE ENGINE ROOM JUNCTION BLOCK