

DTC**P0560****System Voltage****MONITOR DESCRIPTION**

The battery supplies electricity to the ECM even when the ignition switch is in the OFF position. This power allows the ECM to store data such as DTC history, freeze frame data and fuel trim values. If the battery voltage falls below a minimum level, the memory is cleared and the ECM determines that there is a malfunction in the power supply circuit. When the engine is next started, the ECM illuminates the MIL and sets the DTC.

DTC No.	DTC Detection Condition	Trouble Area
P0560	Open in ECM back up power source circuit (1 trip detection logic)	<ul style="list-style-type: none"> • Open in back up power source circuit • EFI fuse • ECM

HINT:

If DTC P0560 is set, the ECM does 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 be illuminated after next engine start)
Sequence of Operation	None

TYPICAL ENABLING CONDITIONS

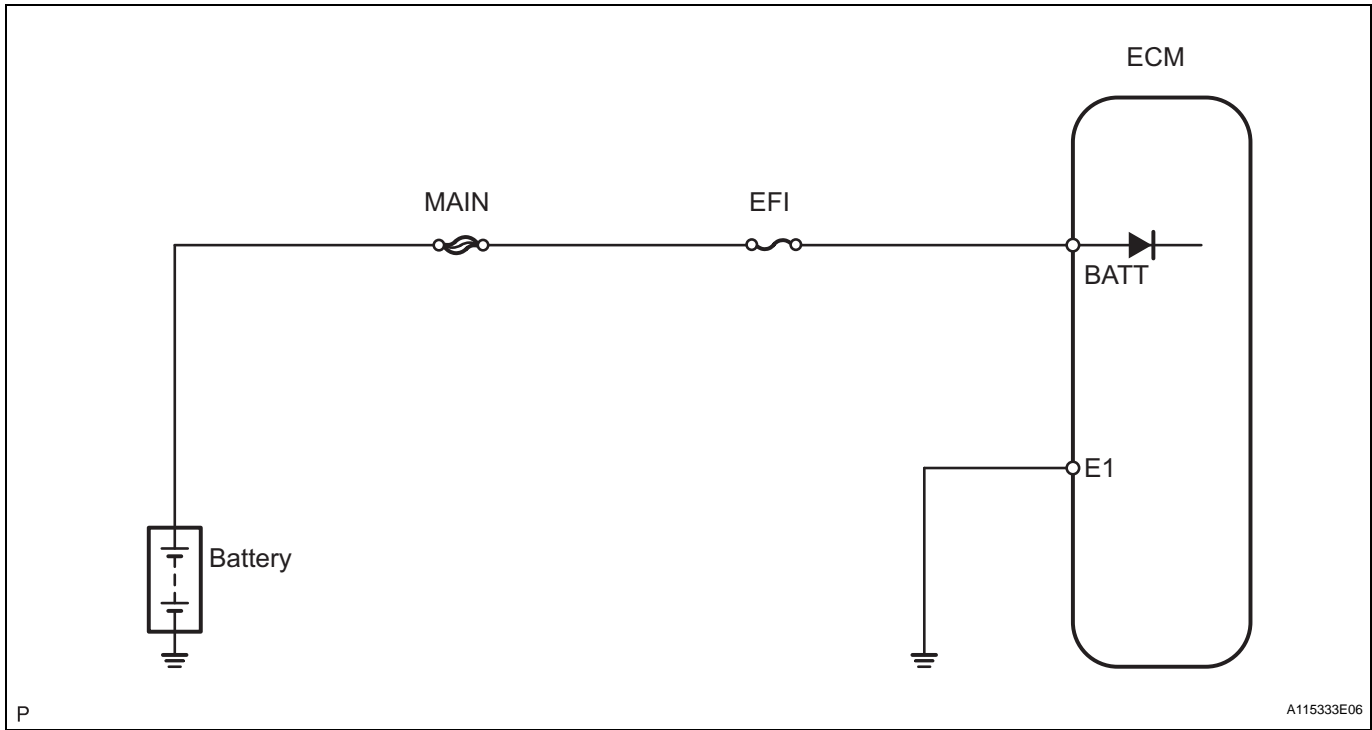
Monitor runs whenever these DTCs not present	None
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TYPICAL MALFUNCTION THRESHOLDS

ECM power source	Less than 3.5 V
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WIRING DIAGRAM

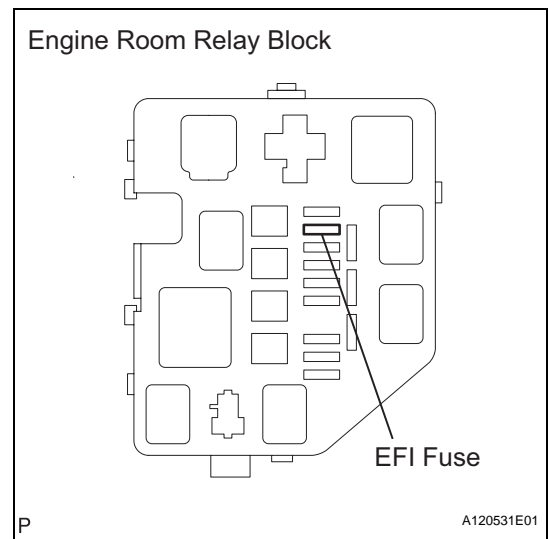


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HINT:

Read freeze frame data using the intelligent tester. Freeze frame data records the engine conditions when malfunctions are 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)

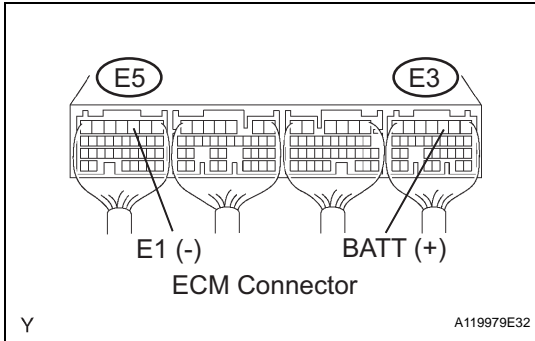


- (a) Remove the EFI fuse from the engine room relay block.
 - (b) Measure the resistance of the EFI fuse.
- Standard resistance:**
Below 1 Ω

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

OK

2 INSPECT ECM (BATT VOLTAGE)



(a) Measure the voltage of the E3 and E5 ECM connectors.
Standard voltage

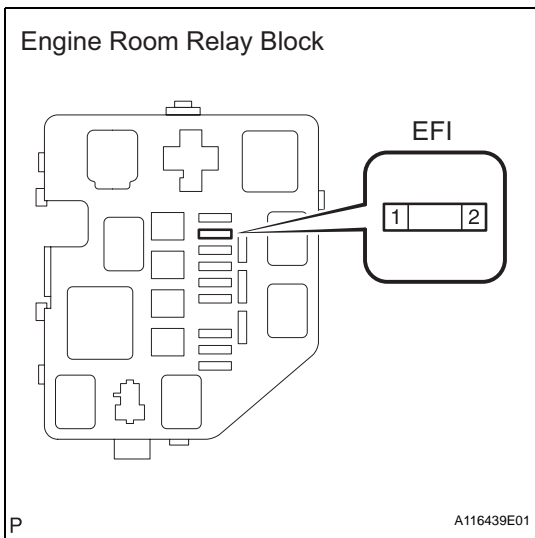
Tester Connection	Specified Condition
BATT (E3-3) - E1 (E5-3)	9 to 14 V

NG → **Go to step 3**

OK

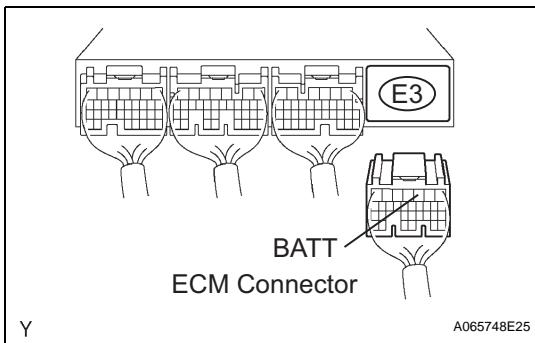
REPLACE ECM

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



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

- (1) Remove the EFI fuse from the engine room relay block.



- (2) Disconnect the E3 ECM connector.
- (3) Measure the resistance of the wire harness side connectors.

Standard resistance (Check for open)

Tester Connection	Specified Condition
Engine room relay block (EFI relay terminal 2) - BATT (E3-3)	Below 1 Ω

Standard resistance (Check for short)

Tester Connection	Specified Condition
Engine room relay block (EFI relay terminal 2) or BATT (E3-3) - Body ground	10 kΩ or higher

- (b) Check the harness and connector between the EFI fuse and battery.
 - (1) Remove the EFI fuse from the engine room relay block.
 - (2) Disconnect the positive (+) battery terminal.
 - (3) Measure the resistance of the wire harness side connectors.

Standard resistance (Check for open)

Tester Connection	Specified Condition
Battery positive terminal - Engine room relay block (EFI relay terminal 1)	Below 1 Ω

Standard resistance (Check for short)

Tester Connection	Specified Condition
Battery positive terminal or Engine room relay block (EFI relay terminal 1) - Body ground	10 kΩ or higher

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

OK

4 INSPECT BATTERY

- (a) Check that the battery is not depleted.

NG → **REPLACE BATTERY**

OK

CHECK AND REPLACE ENGINE ROOM RELAY BLOCK ASSEMBLY

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