

DTC	P0560	System Voltage
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MONITOR DESCRIPTION

The battery supplies electricity to the ECM even when the ignition switch is OFF. This electricity allows the ECM to 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 Detecting Condition	Trouble Area
P0560	Open in back up power source circuit	<ul style="list-style-type: none"> • Open in back-up power source circuit • EFI fuse • ECM

HINT:

If DTC P0560 present, the ECM will not store another DTC.

MONITOR STRATEGY

Related DTCs	P0560	System voltage malfunction
Required sensors/components	ECM	
Frequency of operation	Continuous	
Duration	3 sec.	
MIL operation	Immediate (*1)	
Sequence of operation	None	

*1: The DTC is set immediate. The MIL will be illuminated after the engine starts in the next time.

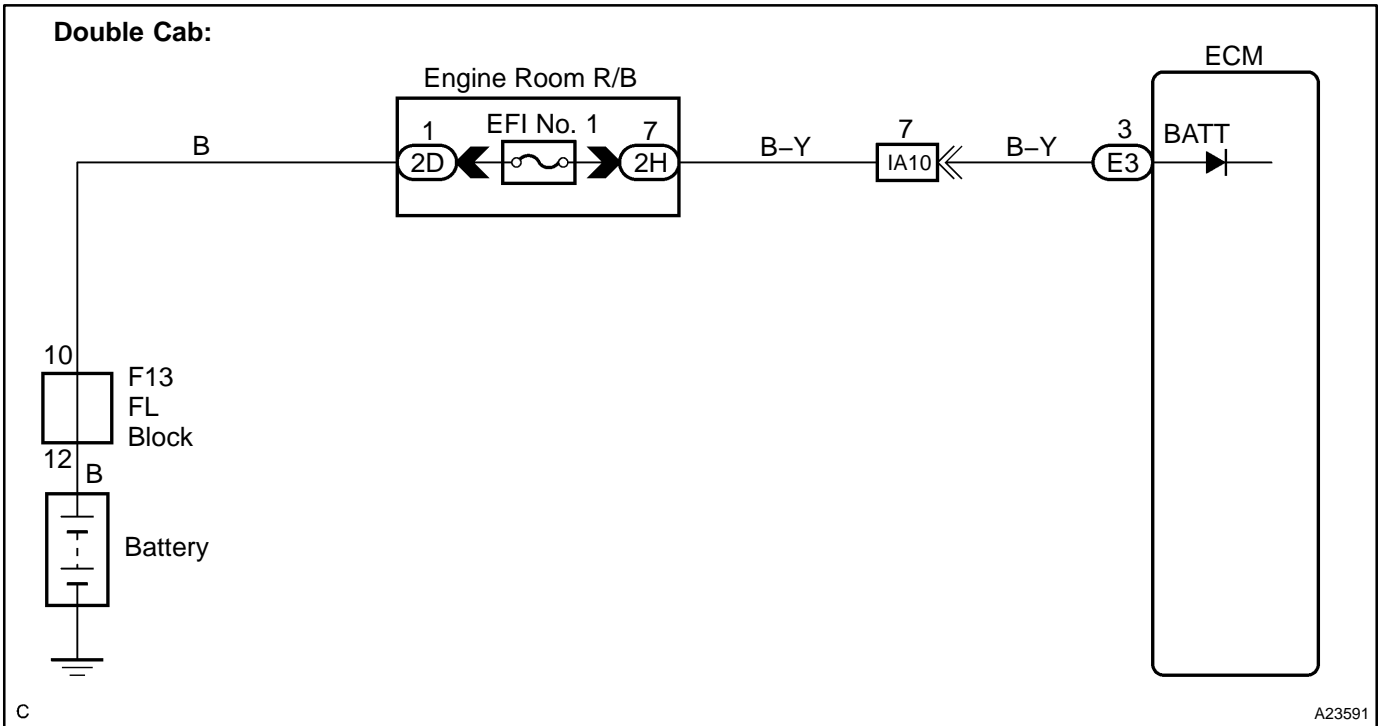
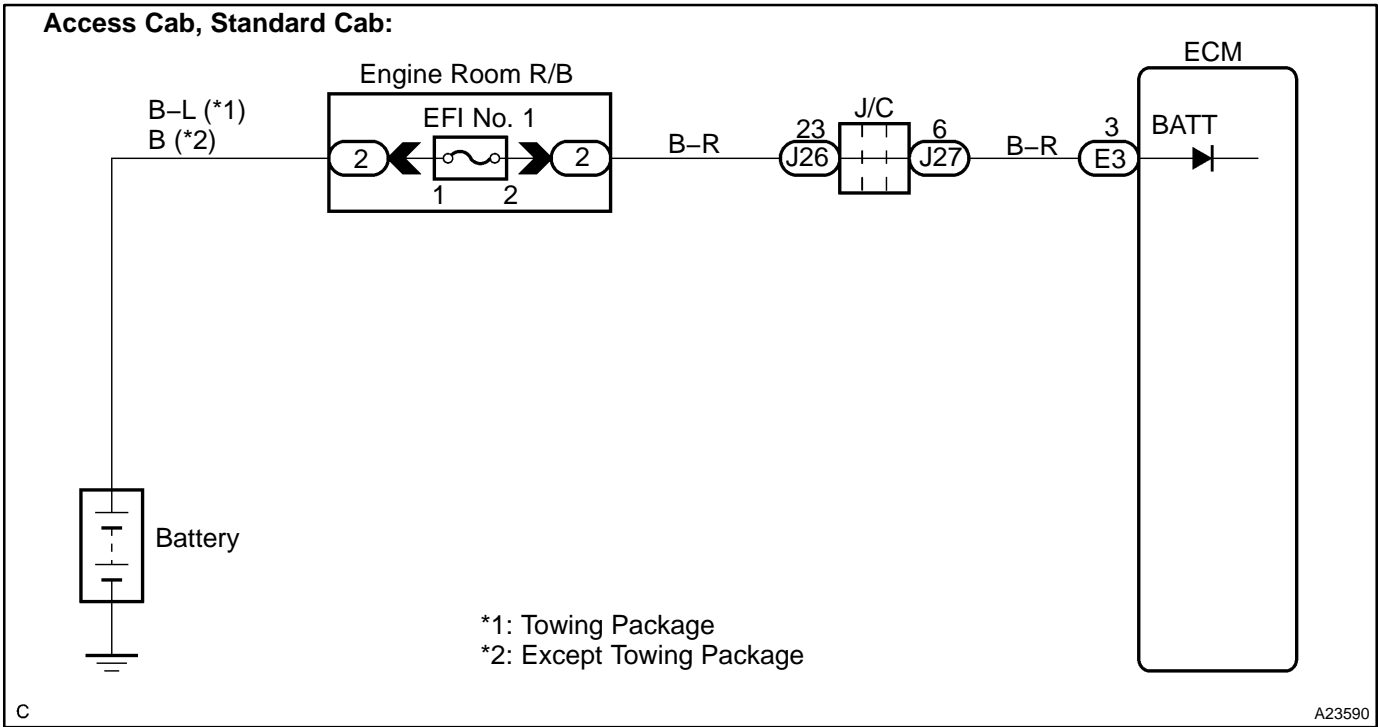
TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever this DTC is not present	See page DI-437	
Stand-by RAM	Initialized	

TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Battery voltage	Less than 3.5 V

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, as well as other data from the time when a malfunction occurred.

1	Check battery voltage.
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PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch to ON.
- (c) Select the item: DIAGNOSIS / ENHANCED OBD II / DATA LIST / ALL / BATTERY VOLTAGE.

CHECK:

Read the battery voltage on the hand-held tester

RESULT:

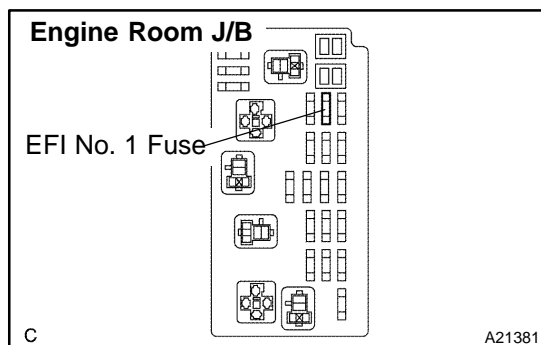
Battery voltage	Proceed to
0 V	A
Except 0 V	B

B

Go to step 5.

A

2	Check EFI No. 1 fuse of engine room J/B.
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PREPARATION:

Remove the EFI No. 1 fuse from the engine room J/B.

CHECK:

Check the resistance of the EFI No. 1 fuse.

OK:

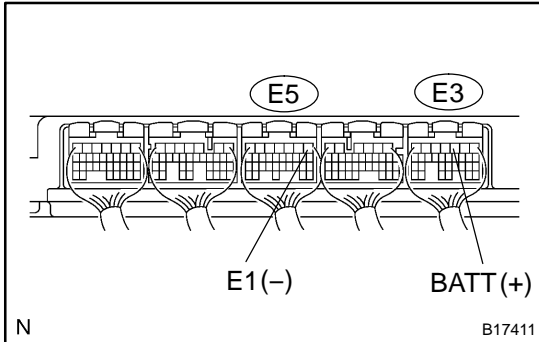
Standard: Below 1 Ω

NG

Check for short in all harness and components connected to EFI No. 1 fuse.

OK

3

Check voltage between terminal BATT and E1 of ECM connector.**CHECK:**

Measure the voltage between terminals of the E5 and E3 ECM connector.

OK:**Standard:**

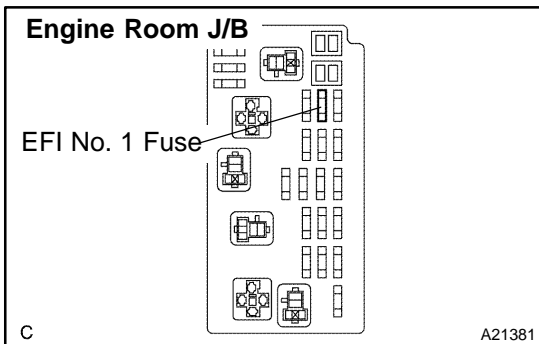
Tester Connection	Specified Condition
BATT (E3-3) – E1 (E5-1)	9 to 14 V

OK

**Check for intermittent problems
(See page [DI-430](#)).**

NG

4

Check for open and short in harness and connector between ECM and EFI No. 1 fuse, EFI No. 1 fuse and battery.**PREPARATION:**

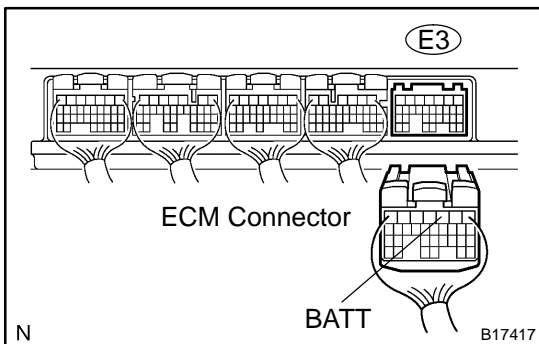
- (a) Remove the EFI No. 1 fuse from the engine room J/B.
- (b) Disconnect the E3 ECM connector.

CHECK:

Measure the resistance between the wire harness side connector.

OK:**Standard:**

Tester Connection	Specified Condition
Engine Room J/B (EFI No. 1 fuse terminal 2) – BATT (E3-3)	Below 1 Ω
Engine Room J/B (EFI No. 1 fuse terminal 2) or BATT (E3-3) – Body ground	10 k Ω or higher

**NG**

Repair or replace harness or connector.

OK

5	Check the battery (See page CH-1).
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Replace battery.

OK

Check and replace engine room J/B.