DICCX–01

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 Detecting Condition	Trouble Area
P0560	Open in back up power source circuit	• Open in back–up power source circuit • EFI or ECD No.1 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 next engine start.

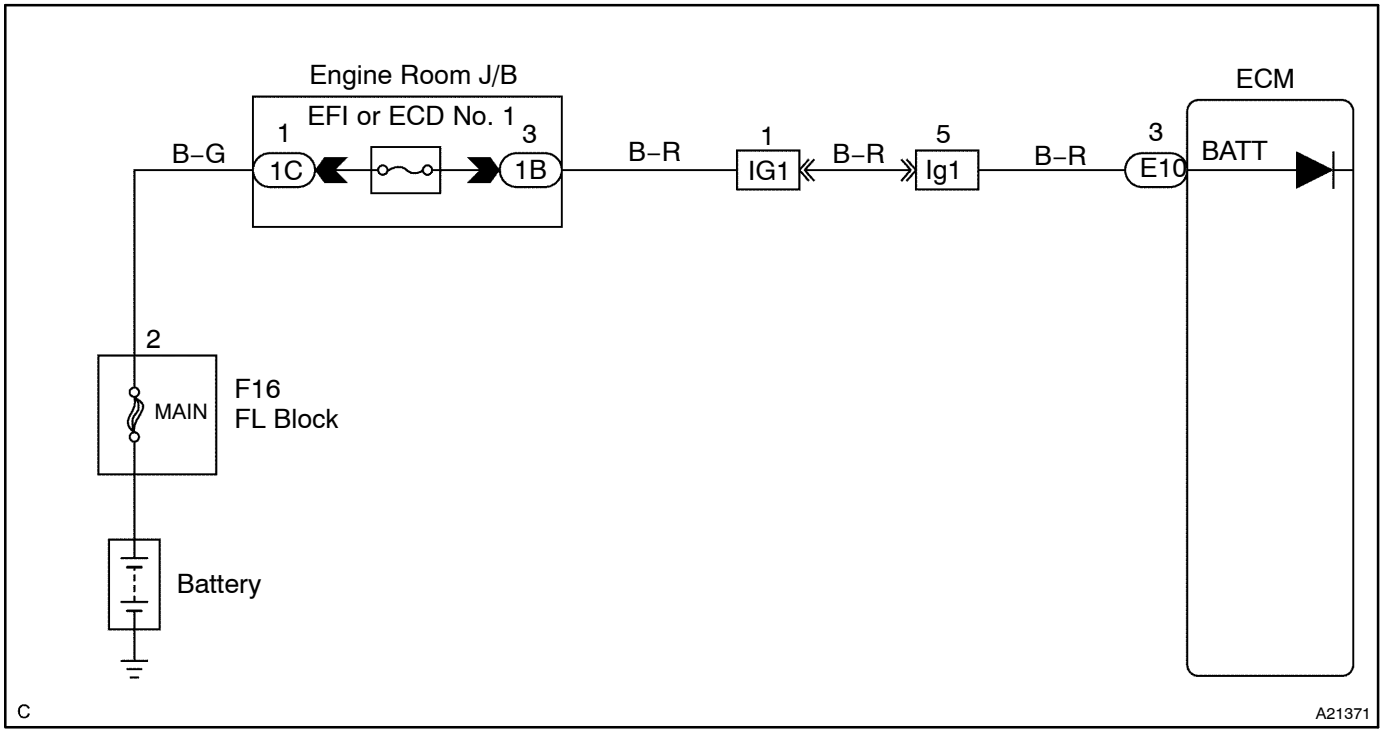
TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present	See ”List of disable a monitor” (on page DI–3)	
Stand–by RAM	Initialized	

TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Battery voltage	Less than 3.5 V

WIRING DIAGRAM

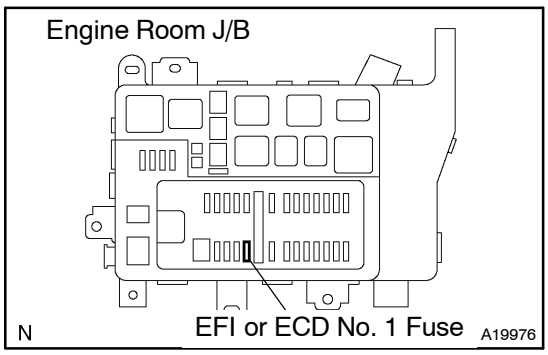


INSPECTION PROCEDURE

HINT:

Read freeze frame data using the hand–held tester 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, as well as other data from the time when a malfunction occurred.

1	**Check EFI or ECD No. 1 fuse of engine room J/B.**



PREPARATION:

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

CHECK:

Check the continuity of the EFI or ECD No. 1 fuse.

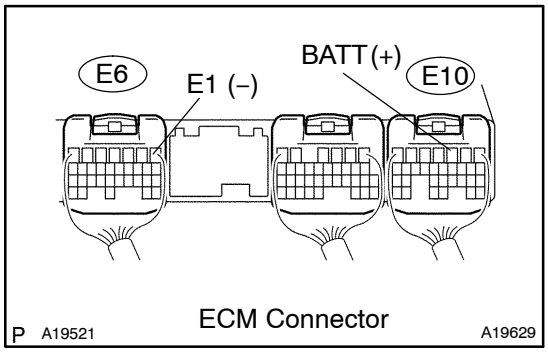
OK:

Continuity

NG → **Check for short in all harness and components connected to EFI or ECD No. 1 fuse.**

OK

2	Check voltage between terminal BATT and E1 of ECM connector.



CHECK:

Measure the voltage between terminals of the E6 and E10 ECM connector.

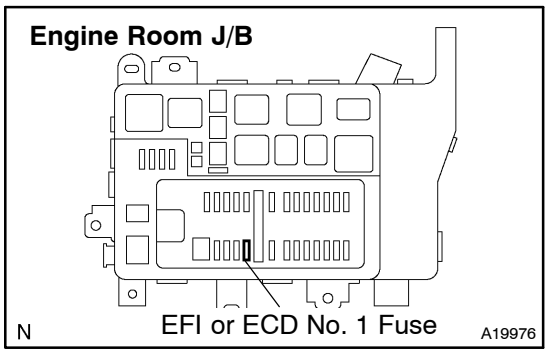
OK:

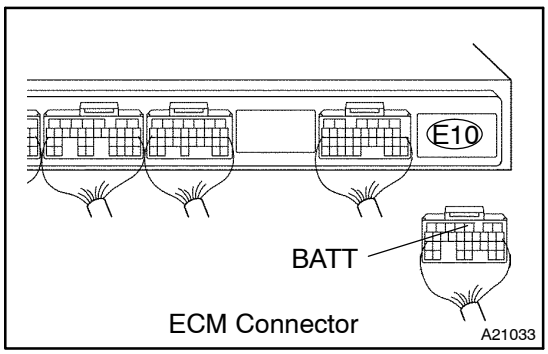
Tester Connection	Specified Condition
BATT (E10–3) – E1 (E6–1)	9 to 14 V

OK → **Check for intermittent problems (See page DI–3).**

NG

3	Check for open and short in harness and connector between ECM and EFI or ECD No. 1 fuse, EFI or ECD No. 1 fuse and battery.





Check the harness and the connector between the EFI or ECD No. 1 fuse and the ECM:

PREPARATION:

(a) Remove the EFI or ECD No. 1 fuse from the engine room J/B.

(b) Disconnect the E10 ECM connector.

CHECK:

Measure the resistance between the wire harness side connector.

OK:

Tester Connection	Specified Condition
Engine Room J/B (EFI or ECD No. 1 fuse terminal 2) – BATT (E10–3)	Below 1 Ω
Engine Room J/B (EFI or ECD No. 1 fuse terminal 2) or BATT (E10–3) – Body ground	10 kΩ or higher

Check the harness and connector between the EFI or ECD No. 1 fuse and the battery:

PREPARATION:

(a) Remove the EFI or ECD No. 1 fuse from the engine room J/B.

(b) Disconnect the battery positive terminal.

CHECK:

Measure the resistance between the wire harness side connector.

OK:

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

NG → **Repair or replace harness or connector.**

OK →

Check and replace engine room J/B.