DIC2M−03

DTC	P0560	System Voltage

CIRCUIT DESCRIPTION

The battery supplies electricity to the engine control ECU even when the ignition switch is OFF. This electricity allows the engine control ECU 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 engine control ECU will conclude that there is a fault in the power supply circuit. The next time the engine starts, the engine control ECU 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 BATT is less than 3.5 V	• Open in back−up power source circuit • EFI or ECD No.1 fuse • Engine control ECU

HINT:
If DTC P0560 present, the engine control ECU will not store another DTC.

WIRING DIAGRAM
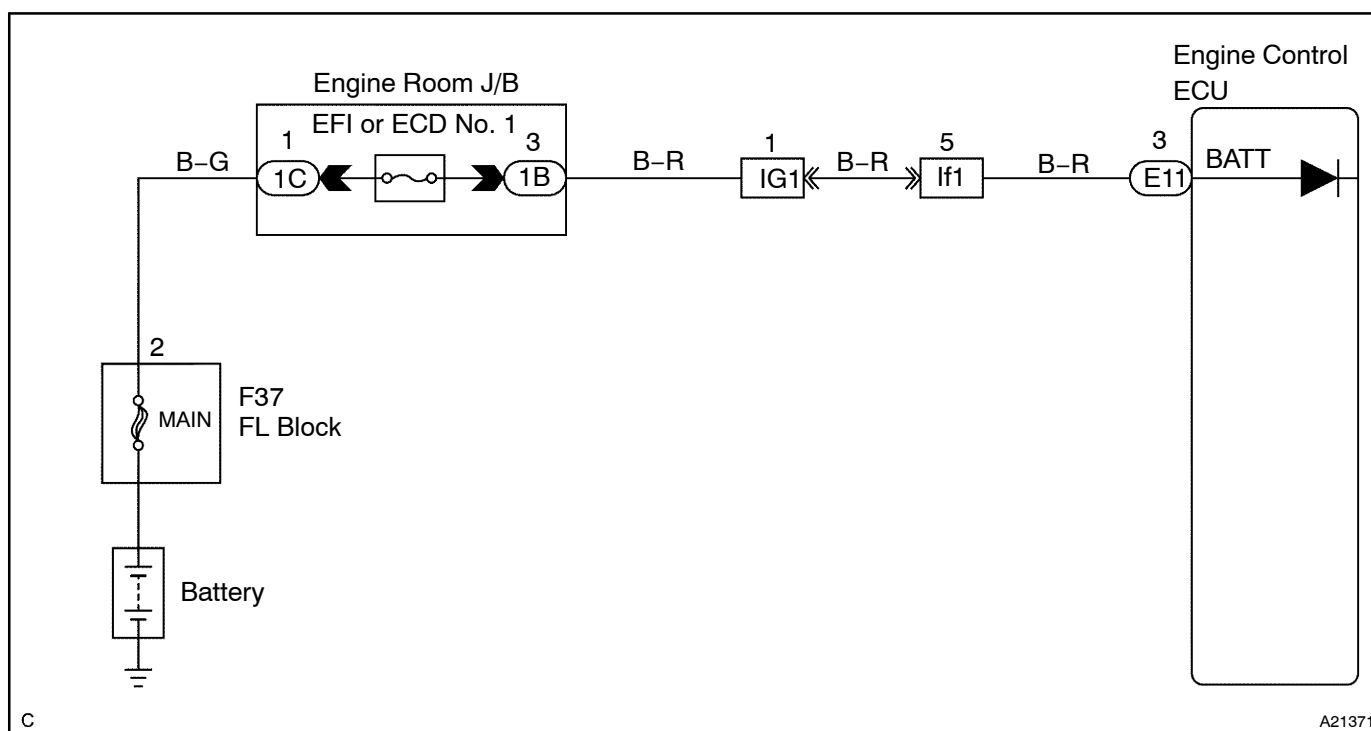
INSPECTION PROCEDURE

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

Engine Room J/B

EFI or ECD No. 1 Fuse   A19976
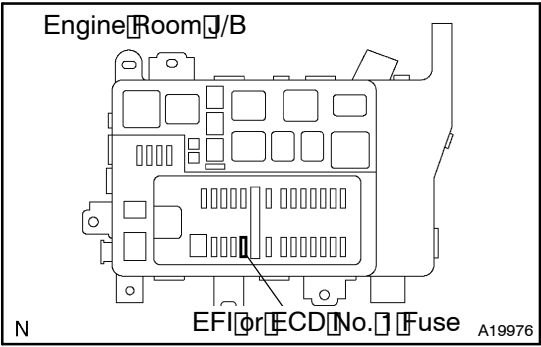
PREPARATION:
Remove the EFI or ECD No. 1 fuse from the engine room J/B.
CHECK:
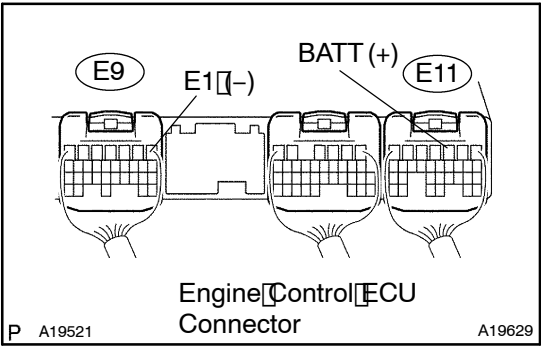Check the continuity of the EFI or ECD No. 1 fuse.
OK:

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 engine control ECU connector.

E9   E1 (–)   BATT (+)   E11

Engine Control ECU Connector

P A19521   A19629

CHECK:
Measure the voltage between terminals of the E9 and E11 engine control ECU connector.
OK:

Tester Connection	Specified Condition
BATT (E11–3) – E1 (E9–1)	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 engine control ECU and EFI or ECD No. 1 fuse, EFI or ECD No. 1 fuse and battery.

Engine Room J/B

EFI or ECD No. 1 Fuse

N   A19976

(E11)

BATT
Engine Control ECU
Connector   A21033
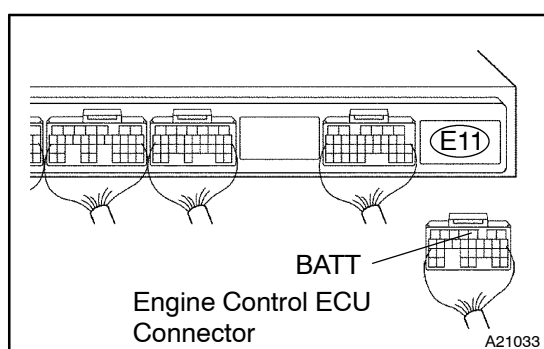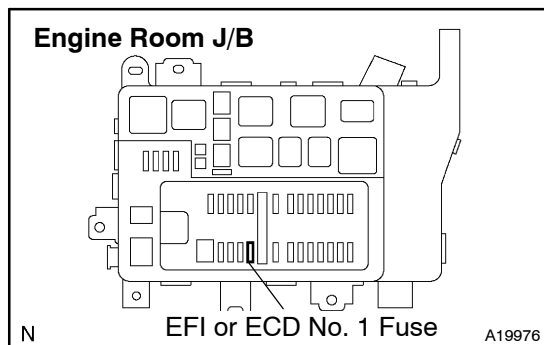
Check the harness and the connector between the EFI or ECD No. 1 fuse and the engine control ECU:

PREPARATION:
(a)   Remove the EFI or ECD No. 1 fuse from the engine room J/B.
(b)   Disconnect the E11 engine control ECU 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 (E11–3)	Below 1 Ω
Engine Room J/B (EFI or ECD No. 1 fuse terminal 2) or BATT (E11–3) – 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.