

DTC	P0A1F/593	BATTERY ENERGY CONTROL MODULE
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CIRCUIT DESCRIPTION

The battery ECU transmits information on the IG2 voltage of the battery ECU to the HV control ECU via CAN communication.

DTC No.	INF Code	DTC Detection Condition	Trouble Area
P0A1F	593	IG2 signal circuit of battery ECU malfunction	<ul style="list-style-type: none"> • Wire harness or connector • Battery ECU

MONITOR DESCRIPTION

When the IG2 voltage of the battery ECU, which is transmitted while the power switch is ON (IG), is low, the HV control ECU determines that a wiring malfunction has occurred at the IG2 terminal of battery ECU. When the HV control ECU detects the malfunction, it illuminates the MIL and sets a DTC.

MONITOR STRATEGY

Related DTCs	P0A1F (INF 593): Battery ECU/IG2 signal malfunction
Required sensor/components	Battery ECU
Frequency of operation	Continuous
Duration	TOYOTA's intellectual property
MIL operation	Immediately
Sequence of operation	None

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present	TOYOTA's intellectual property
Other conditions belong to TOYOTA's intellectual property	–

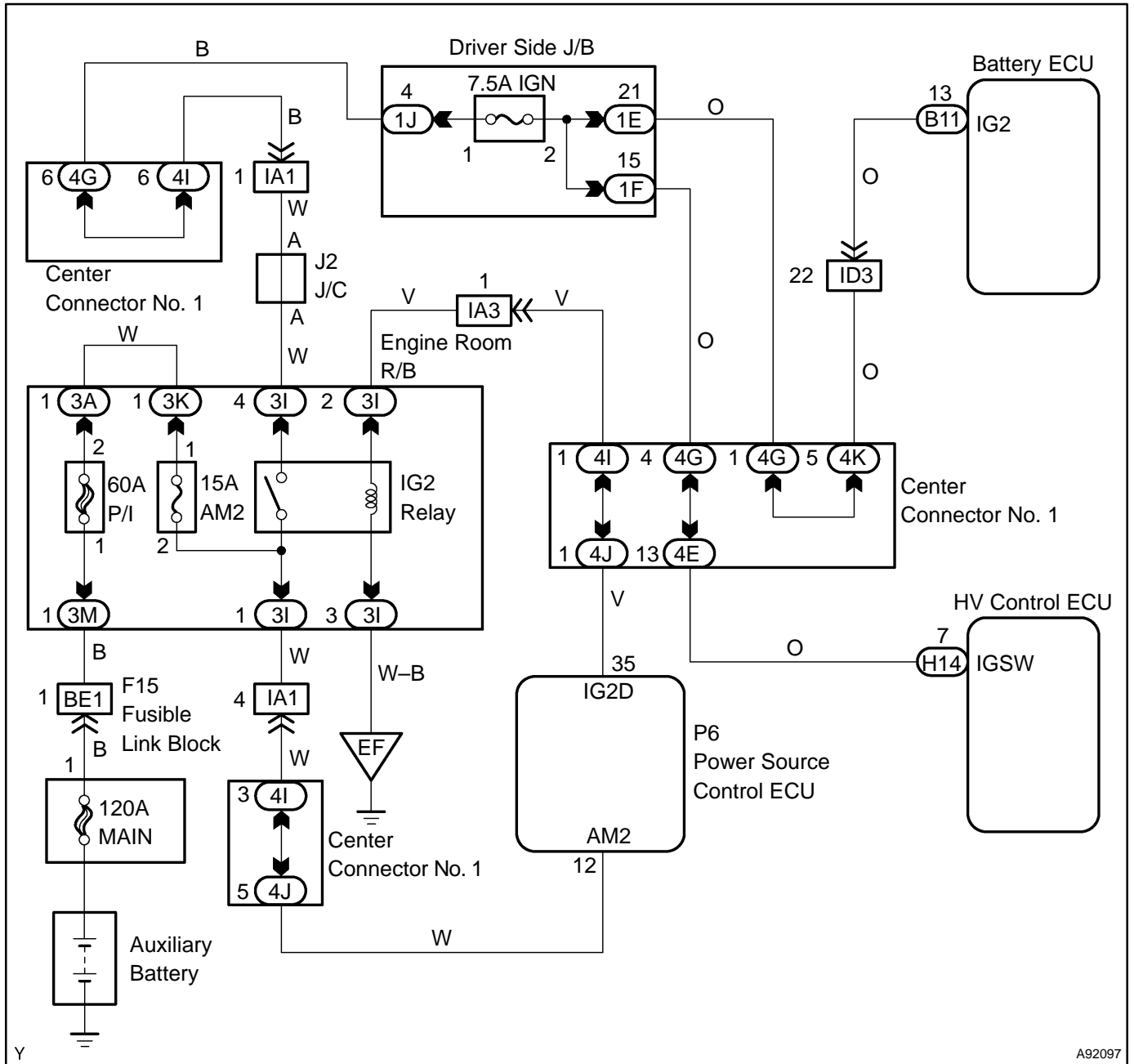
TYPICAL MALFUNCTION THRESHOLDS

Following conditions are met:	(a) and (b)
(a) IG2 signal status at HV control ECU	ON
(b) IG2 signal status from battery ECU	OFF

COMPONENT OPERATING RANGE

Battery ECU	DTC P0A1F (INF 593) is not detected
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WIRING DIAGRAM

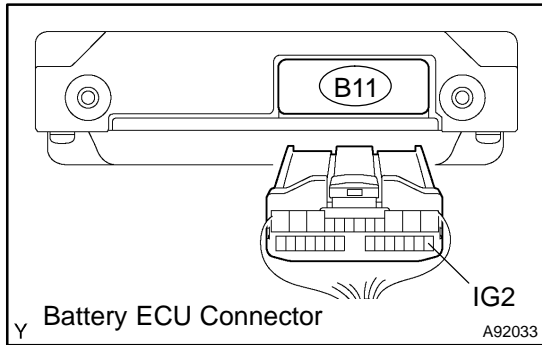


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INSPECTION PROCEDURE

1 CHECK HARNESS AND CONNECTOR(BATTERY ECU - IGN FUSE)



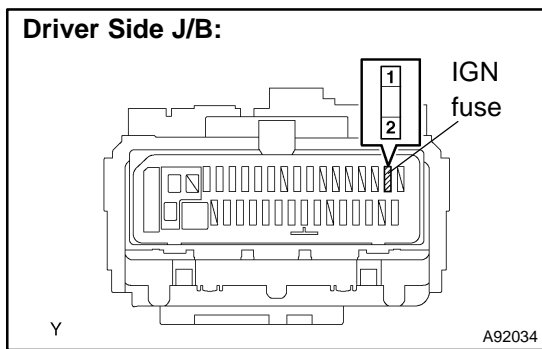
- (a) Disconnect the B11 battery ECU connector.
- (b) Remove the IGN fuse from the driver side J/B.
- (c) Check the resistance between the wire harness side connectors.

Standard (Check for open):

Tester Connection	Specified Condition
IG2 (B11-13) - IGN fuse (2)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
IG2 (B11-13) or IGN fuse (2) - Body ground	10 kΩ or higher



NOTICE:

When taking a measurement with a tester, do not apply excessive force to the tester probe to avoid damaging the holder.

- (d) Reinstall the IGN fuse.
- (e) Reconnect the battery ECU connector.

NG	REPAIR OR REPLACE HARNESS OR CONNECTOR
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OK

REPLACE BATTERY ECU ASSY (See page 21-98)