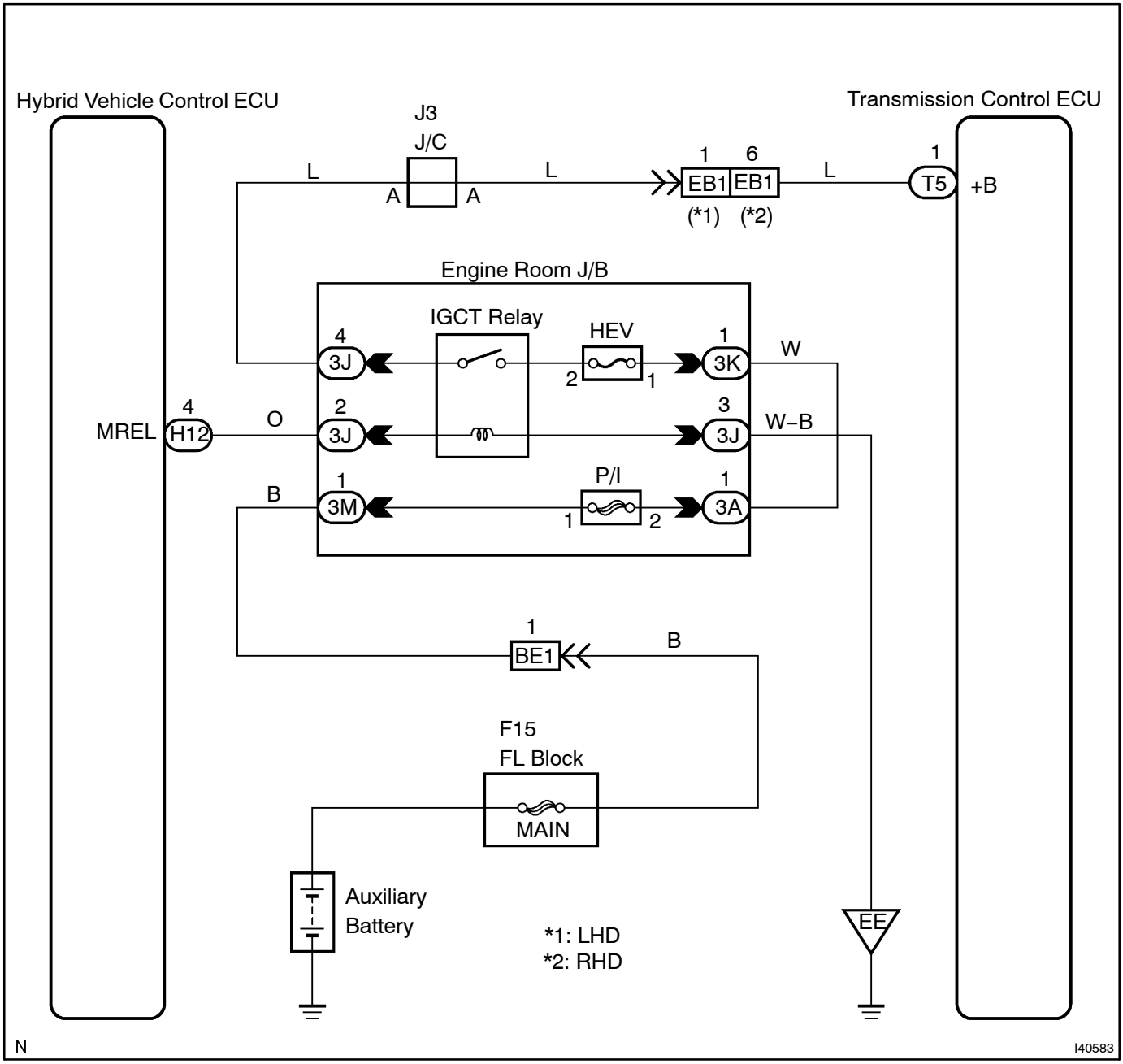
DTC	C2318	LOW VOLTAGE ERROR (POWER SUPPLY MALFUNCTION)

CIRCUIT DESCRIPTION

The auxiliary battery voltage is applied to terminal +B when the power switch is on (IG). The transmission control ECU outputs this DTC when the input voltage drops.

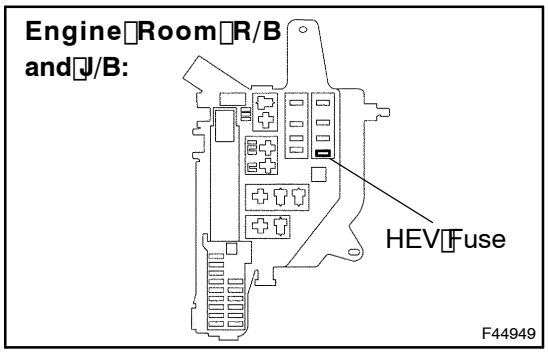
DTC No.	DTC detecting condition	Trouble area
C2318	• Power switch on (IG) • Terminal +B voltage of the transmission control ECU is 9.3 V or less for 1 sec. or more.	• HEV fuse • IGCT relay • Wire harness or connector • Auxiliary battery

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT FUSE(HEV FUSE)



(a) Remove the HEV fuse from the engine room R/B and J/B.
(b) Check for continuity of the HEV fuse.
Standard: Continuity

NG → **INSPECT FOR SHORT IN ALL COMPONENTS CONNECTED TO FUSE AND REPAIR OR REPLACE THEM IF NEEDED, AND REPLACE FUSE**

OK

2 CHECK OTHER DTC OUTPUT(BESIDE C2318)

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the power switch on (IG).
(c) Turn the intelligent tester II on.
(d) Read the DTCs.
Result:

Display (DTC output)	Proceed to
No output	A
P3110–223	B

HINT:
DTC P3110 indicates HV main relay malfunction; DTC P3110–223 indicates "IGCT relay malfunction".

B → **REPAIR CIRCUIT INDICATED BY OUTPUT CODE (SEE PAGE 05–599)**

A

3	READ VALUE ON INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the power switch on (IG).
(c) Turn the intelligent tester II on.
(d) Select the item below in the DATA LIST, and read its value displayed on the intelligent tester II.

Item	Measurement Item/ Range (Display)	Normal Condition
IG (+B) Voltage Value	IG (+B) voltage value/min: 0 V, max: 20 V	Actual power supply voltage 9 to 14 V

Standard:
Voltage: 9 to 14 V

OK → **REPLACE TRANSMISSION CONTROL ECU ASSY**

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (ENGINE ROOM R/B AND J/B – TRANSMISSION CONTROL ECU ASSY)