DTC	C2310	OPEN OR SHORT CIRCUIT IN BATT

CIRCUIT DESCRIPTION

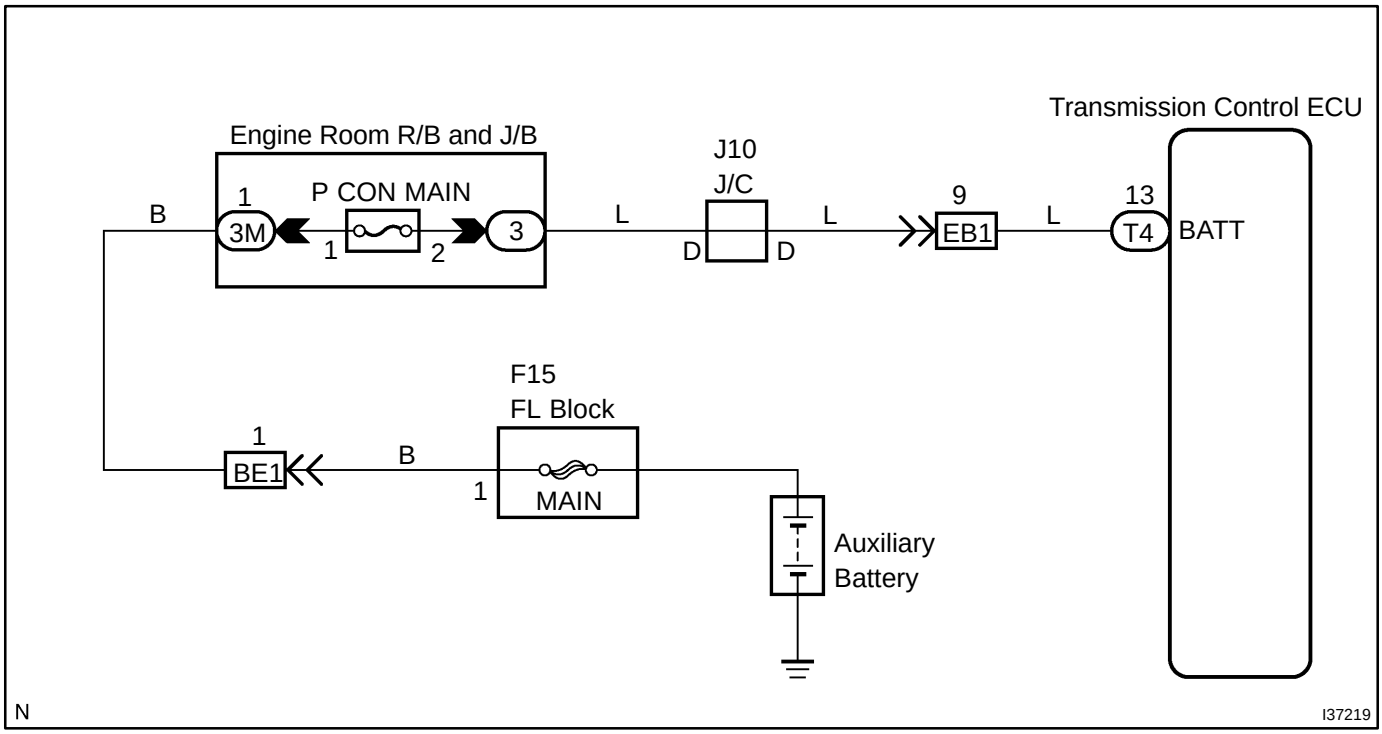
The auxiliary battery voltage is constantly applied to terminal BATT. The terminal BATT voltage is used to power the transmission control ECU memory. The transmission control ECU outputs this DTC when it detects a malfunction related to terminal BATT.

DTC No.	DTC detecting condition	Trouble area
C2310	• Power switch on (IG) • Terminal BATT voltage of the transmission control ECU is 10 V or less for 1 sec. or more.	• P CON MAIN fuse • Transmission control ECU assy • Wire harness or connector

HINT:

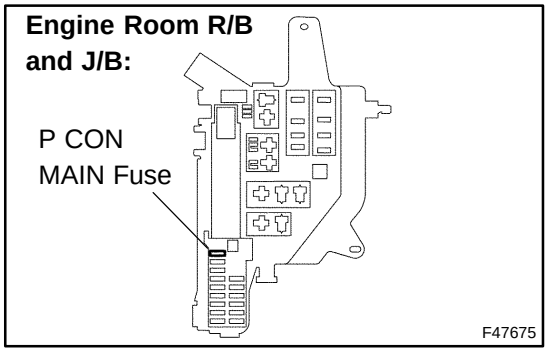
When there is an open or short in the BATT circuit, information on the actuator position (”P position” or ”non–P position”) stored in the ECU is cleared every time the power switch is turned off. Therefore, the ECU works to recognize the position each time the power switch is turned on. As a result, time from when the power switch is turned on until ”READY ON” is indicated may become longer than normal.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 INSPECT FUSE(P CON MAIN)



(a) Remove the P CON MAIN fuse from the engine room R/B and J/B.
(b) Check for continuity of the P CON MAIN 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 READ VALUE ON HAND–HELD TESTER

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

Item	Measurement Item/ Range (Display)	Normal Condition
BATT VOL VAL	BATT voltage value/min: 0 V, max: 20 V	Actual power supply voltage 9 to 14 V

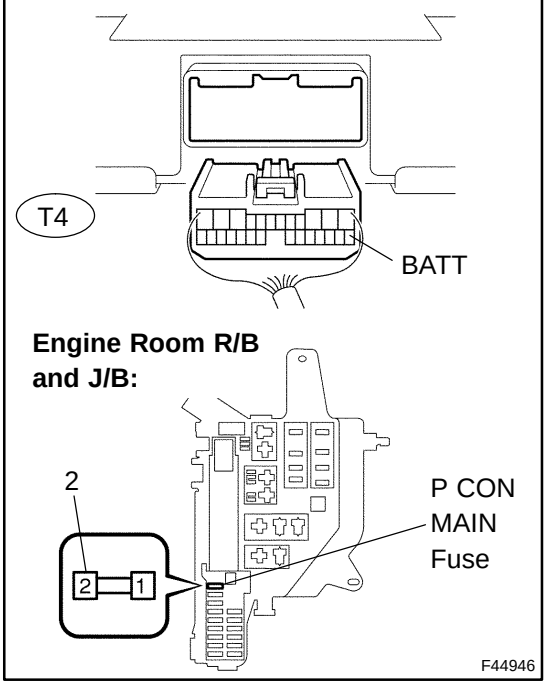
Standard:
Voltage: 9 to 14 V

OK → **REPLACE TRANSMISSION CONTROL ECU ASSY**

NG

3	CHECK HARNESS AND CONNECTOR(TRANSMISSION CONTROL ECU ASSY – P CON MAIN FUSE)

Transmission Control ECU Assy:



(a) Disconnect the T4 connector from the transmission control ECU assy.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection (Symbols)	Condition	Specified condition
T4–13 (BATT) – 2 (P CON MAIN Fuse)	Always	Below 1 Ω
T4–13 (BATT) – Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR(P CON MAIN FUSE – BATTERY)