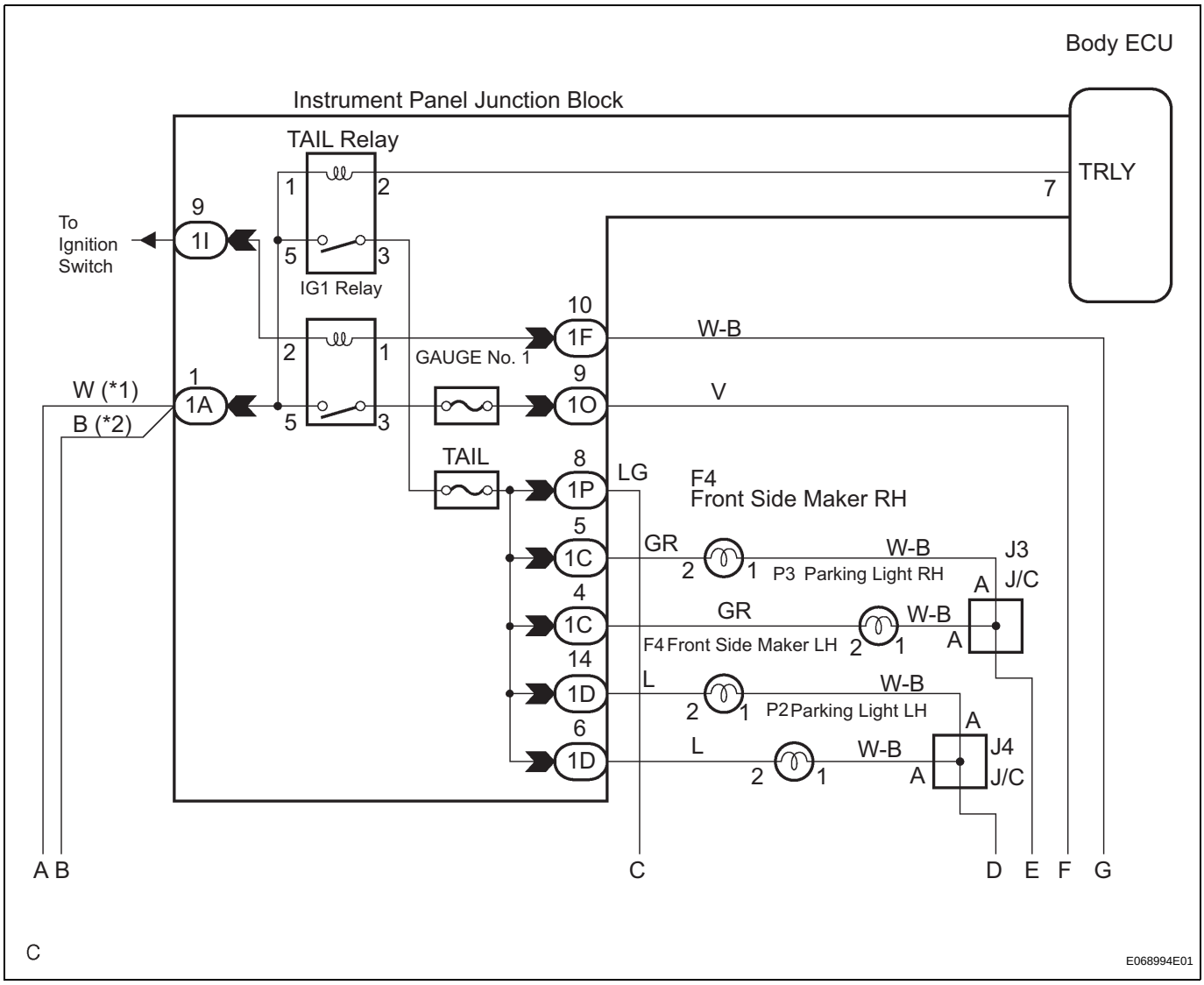
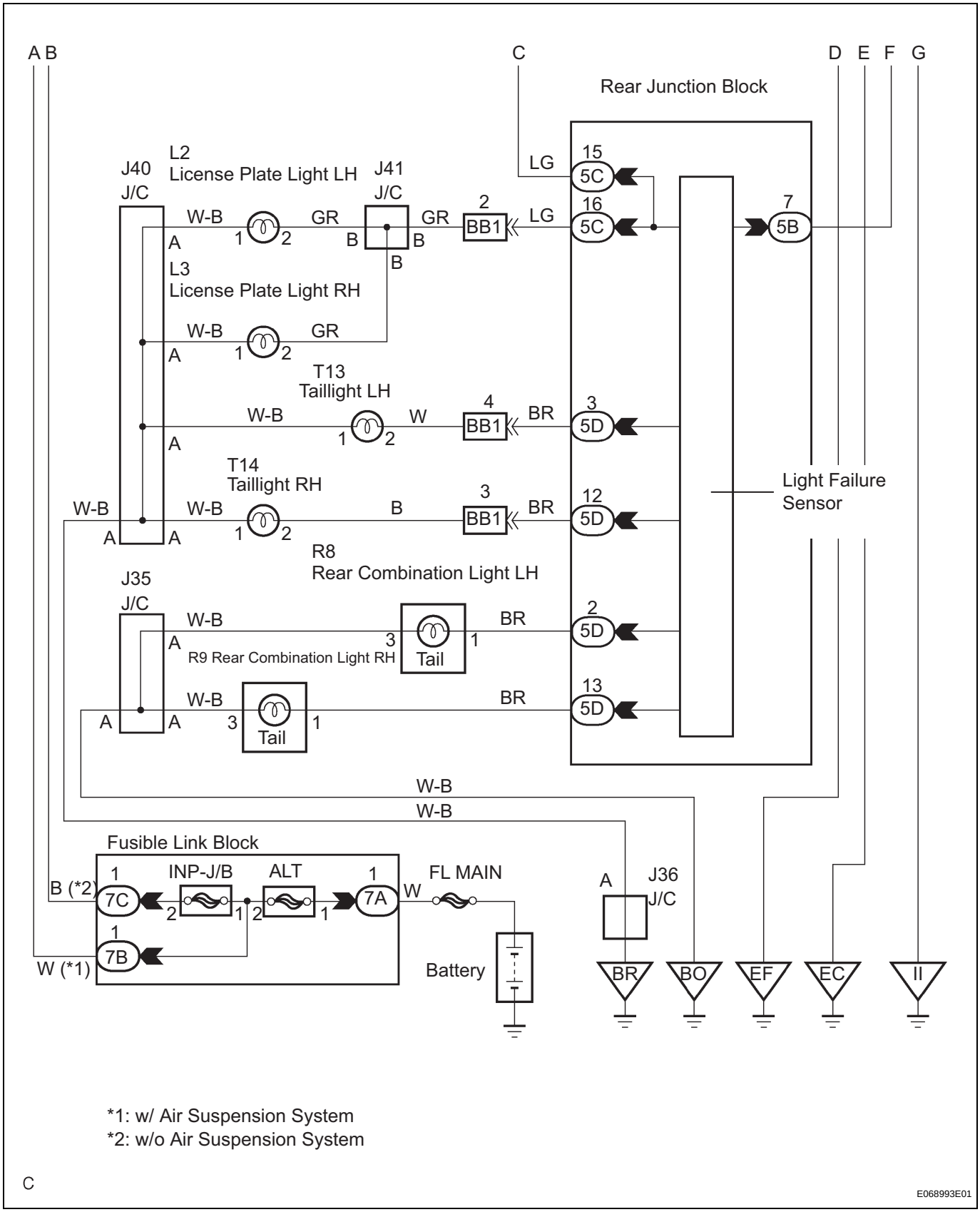
Taillight Relay Circuit

DESCRIPTION

The body ECU controls TAIL relay when the signal is received from the headlight dimmer switch assembly.

WIRING DIAGRAM




A B
C
D E F G
Rear Junction Block
L2
License Plate Light LH
J40
J/C
J41
J/C
W-B
GR
GR
LG
15
5C
16
5C
2
BB1
7
5B
L3
License Plate Light RH
T13
Taillight LH
W-B
W
BR
4
BB1
3
5D
T14
Taillight RH
W-B
W-B
B
BR
3
BB1
12
5D
Light Failure
Sensor
R8
Rear Combination Light LH
J35
J/C
W-B
BR
2
5D
R9 Rear Combination Light RH
Tail
W-B
BR
13
5D
Tail
W-B
W-B
Fusible Link Block
B (*2)
W (*1)
7C
7B
INP-J/B
ALT
7A
FL MAIN
Battery
A
J36
J/C
BR
BO
EF
EC
II
*1: w/ Air Suspension System
*2: w/o Air Suspension System
C
E068993E01

LI

1	PERFORM ACTIVE TEST BY INTELLIGENT TESTER

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position and press the intelligent tester main switch ON.
(c) Select the items below in the ACTIVE TEST and then check that the relay operates.

BODY

Item	Test Details	Diagnostic Note
TAIL LIGHT	Turn Tail light relay ON/OFF	-

NG → **Go to step 2**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

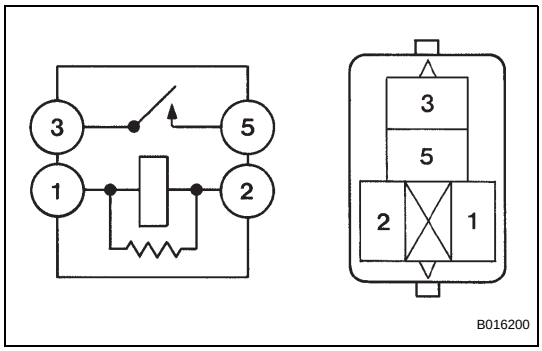
2	INSPECT FUSE

(a) Inspect TAIL fuse and GAUGE No.1 fuse in the instrument panel junction block assembly.
Resistance:
Below 1 Ω

NG → **REPLACE FUSE**

OK

3	INSPECT RELAY



(a) Inspect TAIL relay continuity.
(1) Remove the TAIL relay from the instrument panel J/B assembly.
(2) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
3 - 5	Always	10 kΩ or higher
3 - 5	Apply B+ between the terminal 1 and 2	Below 1 Ω

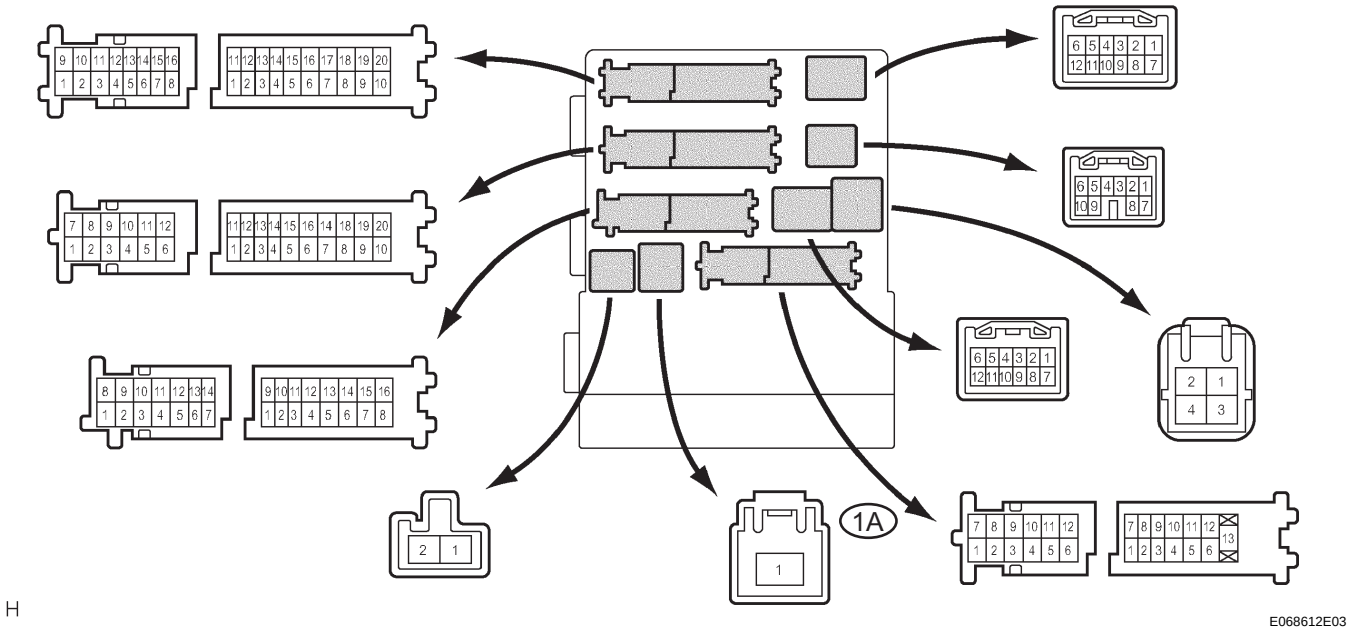
NG → **REPLACE RELAY**

OK

4	INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY (POWER SOURCE CIRCUIT)

(a) Measure the voltage according to the value(s) in the table below.

Instrument Panel Junction Block Assembly Front Side Wire Harness View:



Voltage

Tester connection	Condition	Specified condition
1A-1 - Body ground	Always	10 to 14 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (BATTERY - INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY)**

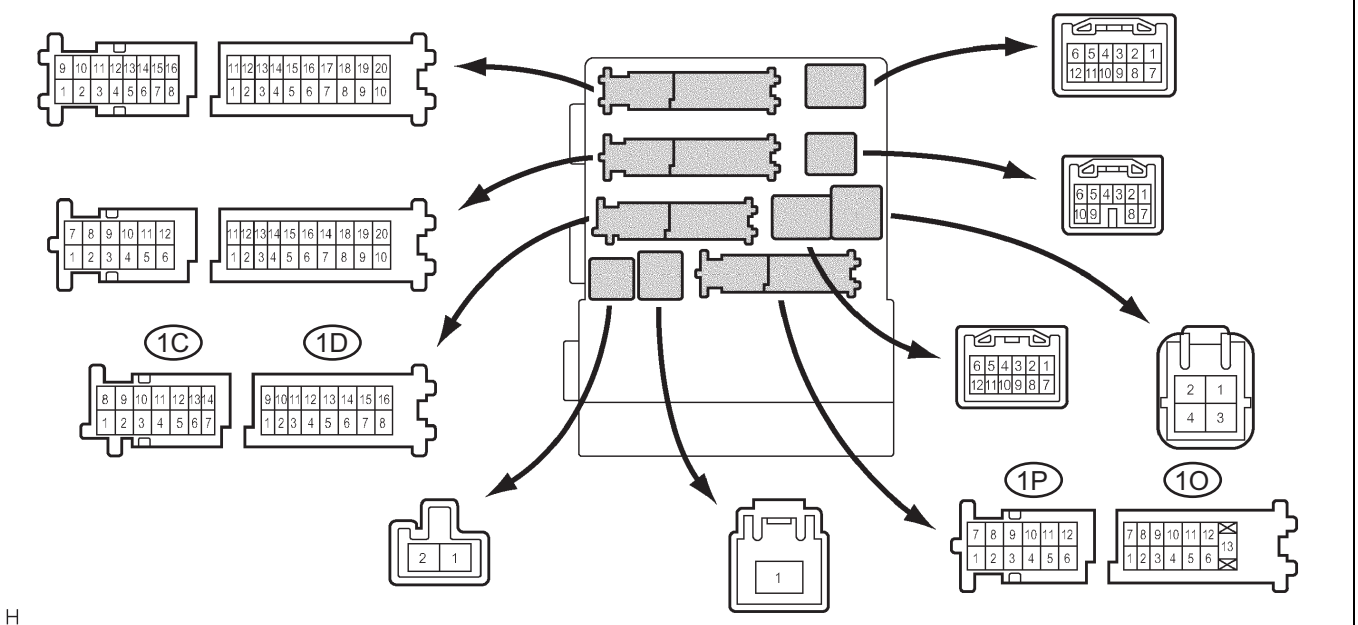
OK

5	INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

(a) Measure the voltage according to the value(s) in the table below.

LI

Instrument Panel Junction Block Assembly Front Side Wire Harness View:



LI

Voltage

Tester connection	Condition	Specified condition
1C-4 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V
1C-5 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V
1D-6 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V
1D-14 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V
1P-8 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V
1O-9 - Body ground	Ignition switch ON	Below 1 V → 10 to 14 V

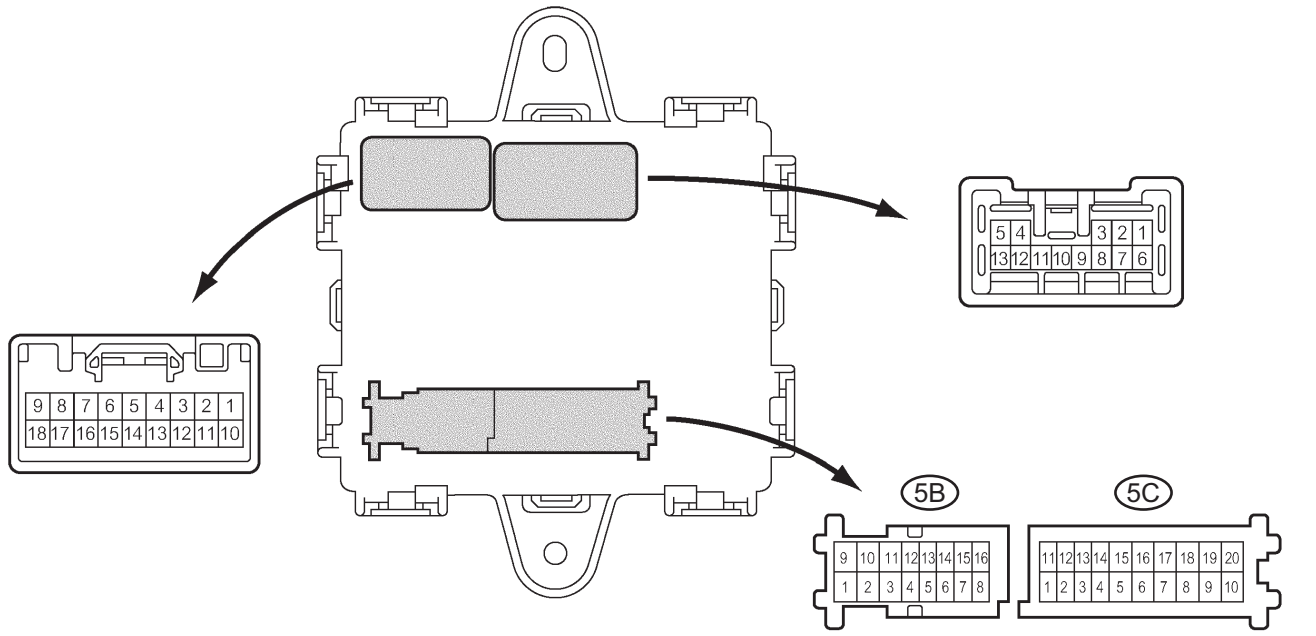
NG → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK

6	INSPECT REAR JUNCTION BLOCK

(a) Measure the voltage according to the value(s) in the table below.

Rear Junction Block Assembly Wire Harness View:



Voltage

Tester connection	Condition	Specified condition
5B-7 - Body ground	Ignition switch OFF → ON	Below 1 V → 10 to 14 V
5C-15 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V

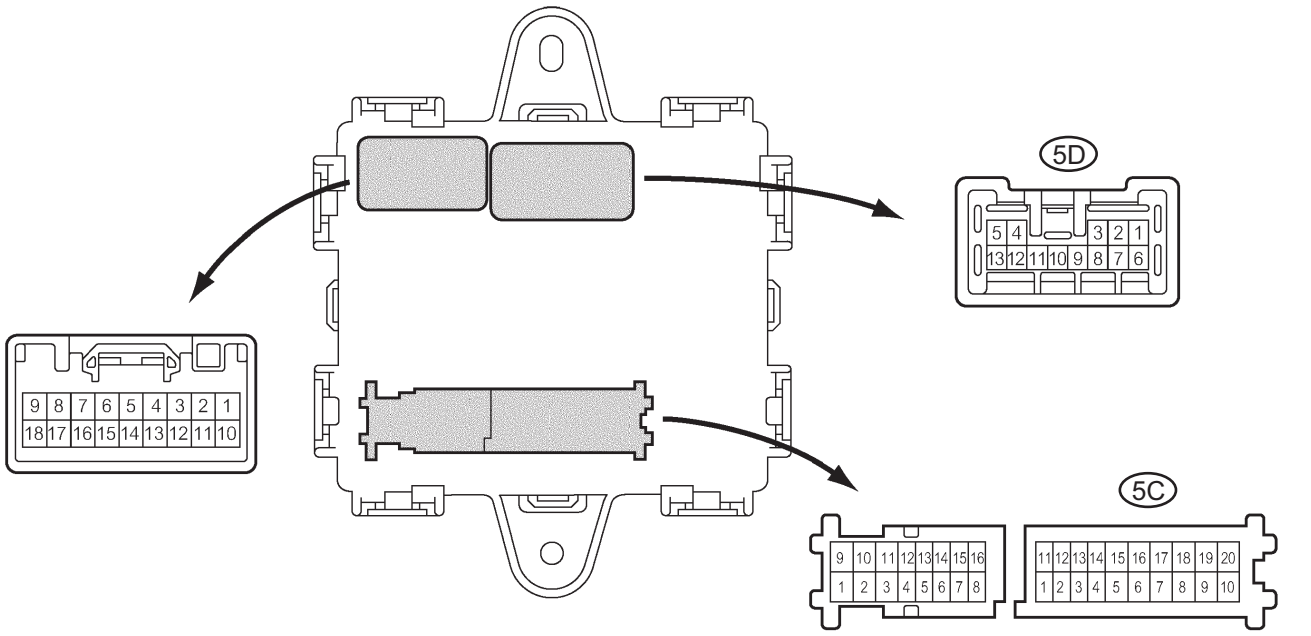
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (INSTRUMENT PANEL J/B ASSEMBLY - REAR JUNCTION BLOCK)**

OK

7	INSPECT REAR JUNCTION BLOCK

(a) Measure the voltage according to the value(s) in the table below.

Rear Junction Block Assembly Wire Harness View:



LI

Voltage

Tester connection	Condition	Specified condition
5C-16 - Body ground	Headlight dimmer switch OFF → TAIL	Below 1 V → 10 to 14 V
5D-5 - Body ground	Headlight dimmer switch OFF → TAIL	Below 1 V → 10 to 14 V
5D-9 - Body ground	Headlight dimmer switch OFF → TAIL	Below 1 V → 10 to 14 V
5D-10 - Body ground	Headlight dimmer switch OFF → TAIL	Below 1 V → 10 to 14 V
5D-11 - Body ground	Headlight dimmer switch OFF → TAIL	Below 1 V → 10 to 14 V

NG → **REPLACE REAR JUNCTION BLOCK**

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR