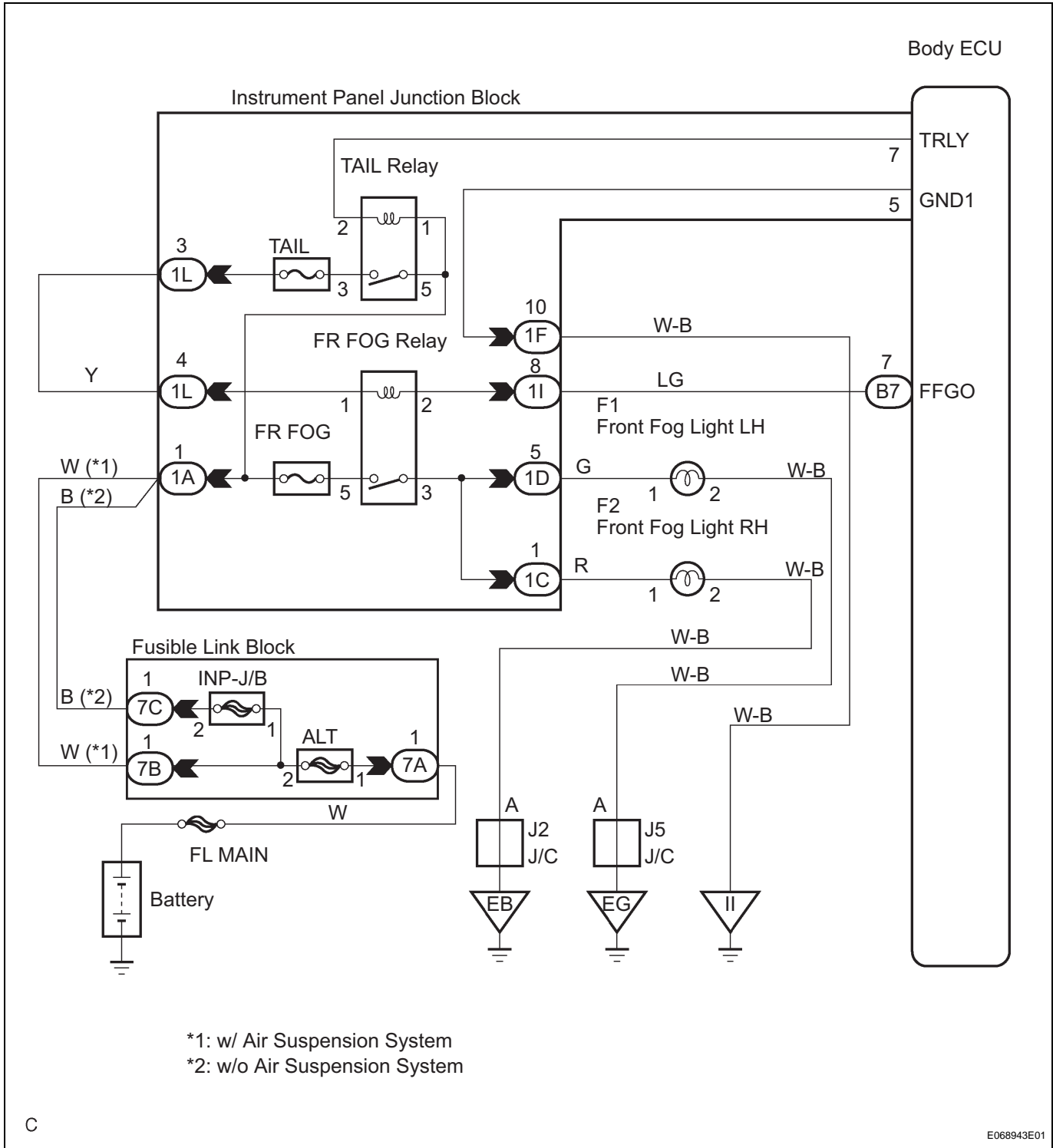


Front Fog Light Circuit

DESCRIPTION

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

WIRING DIAGRAM



1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER

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

BODY

Item	Test Details	Diagnostic Note
F FOG LIGHT RLY	Trun Front fog 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 the FR FOG fuse and TAIL fuse in the instrument panel junction block assembly.

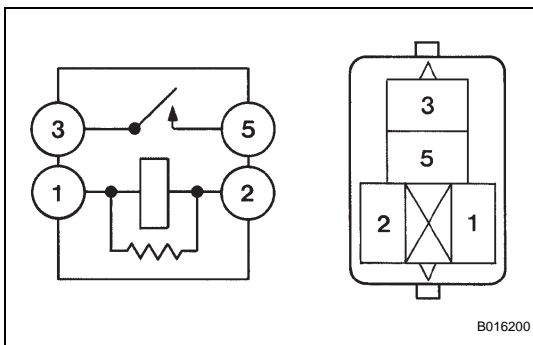
Resistance:
Below 1 Ω

NG → **REPLACE FUSE**

OK

3 INSPECT RELAY

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

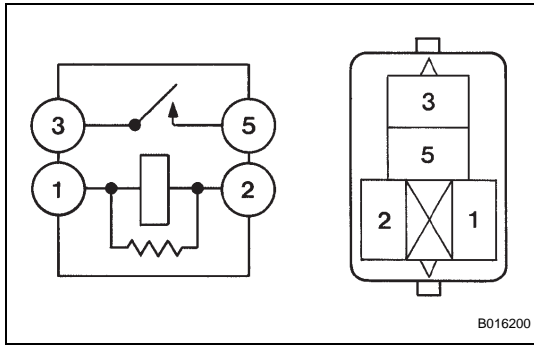


Resistance

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

- (b) 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

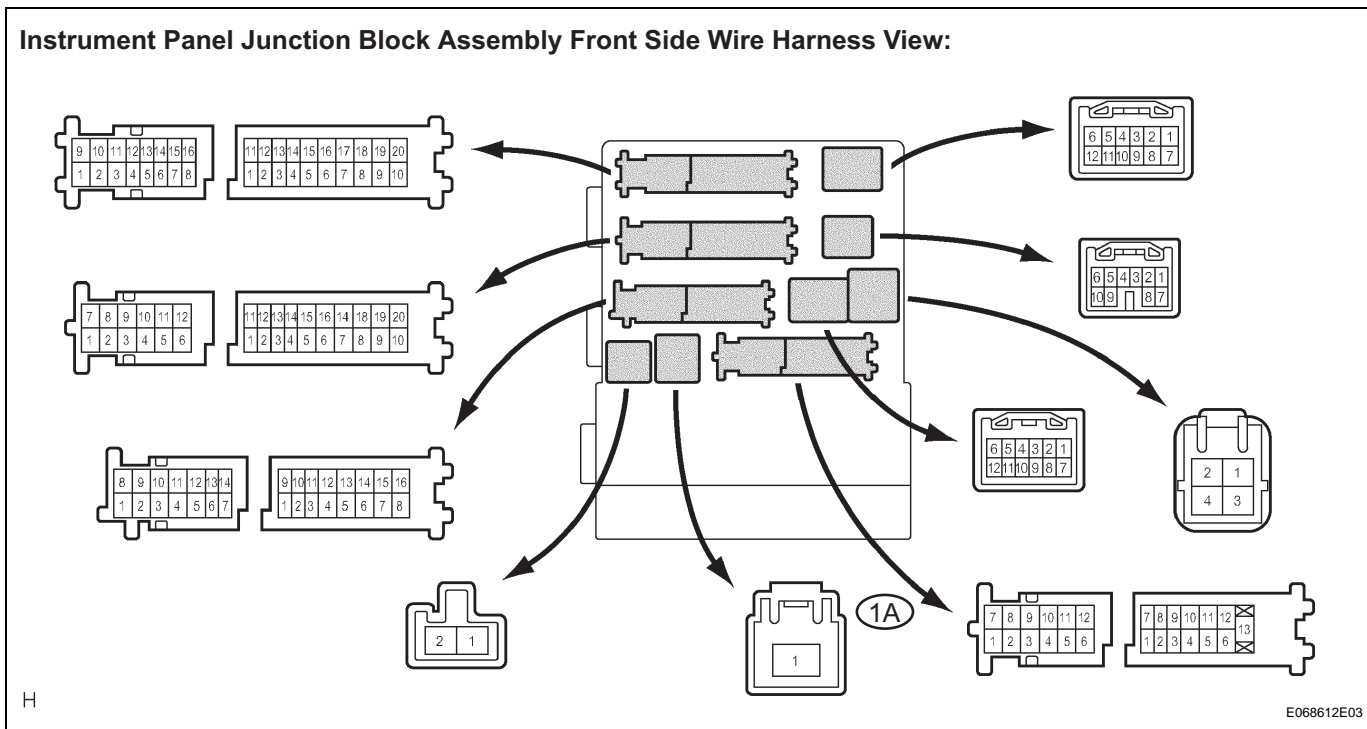
Tester connection	Condition	Specified resistance
3 - 5	Always	10 kΩ or higher
3 - 5	Apply B+ between the terminal 1 and 2	Below 1 Ω

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.



Voltage

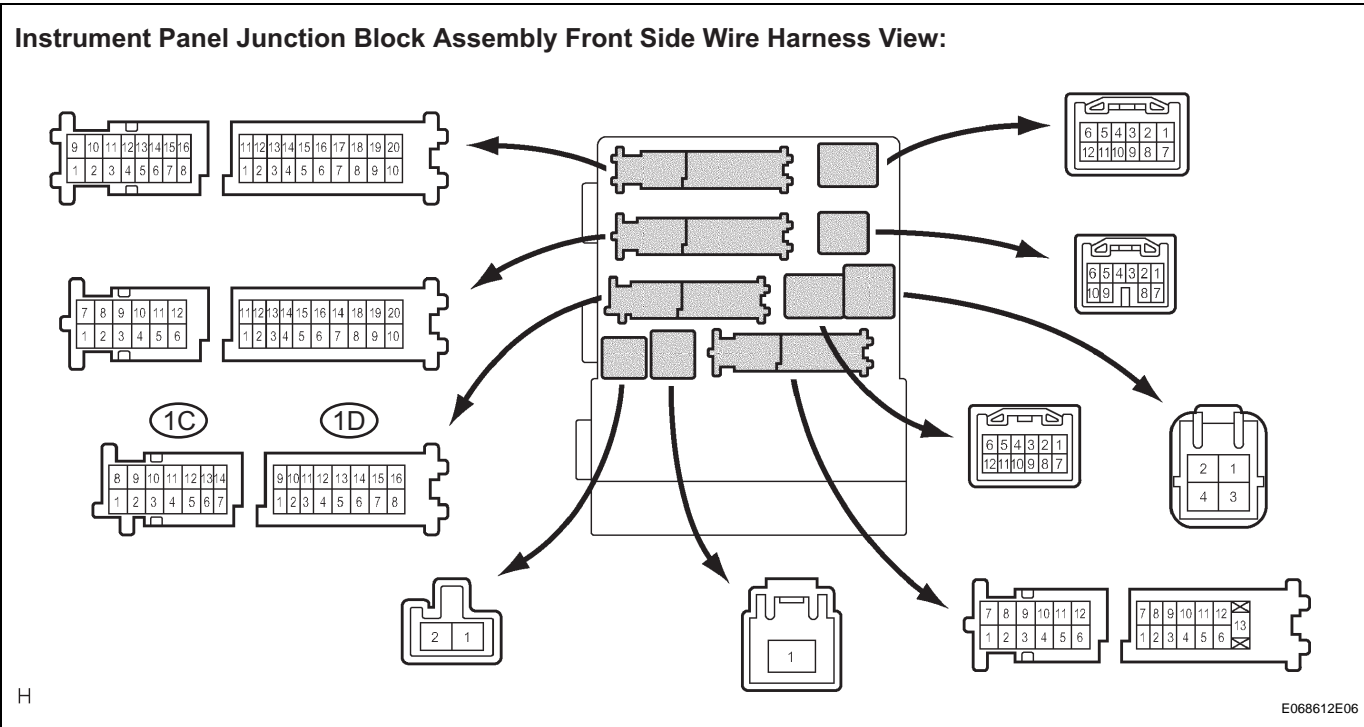
Tester connection	Condition	Specified condition
1A-1 - Body ground	Always	10 to 14 V

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.



Voltage

Tester connection	Condition	Specified condition
1C-1 - Body ground	Light control switch TAIL and Front fog light switch OFF → ON	Below 1 V → 10 to 14 V
1D-5 - Body ground	Light control switch TAIL and Front fog light switch OFF → ON	Below 1 V → 10 to 14 V

NG Go to step 6

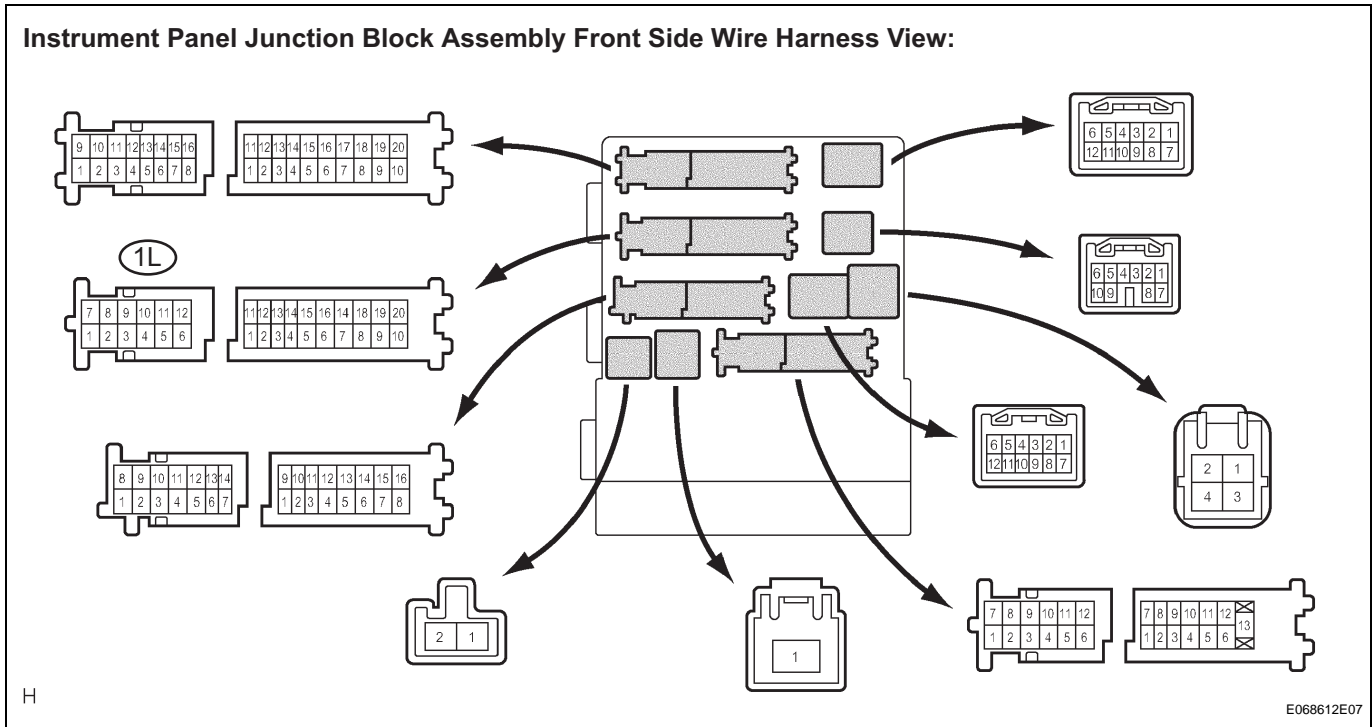
OK

REPAIR OR REPLACE HARNESS OR CONNECTOR

6 INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

(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
1L-3 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V

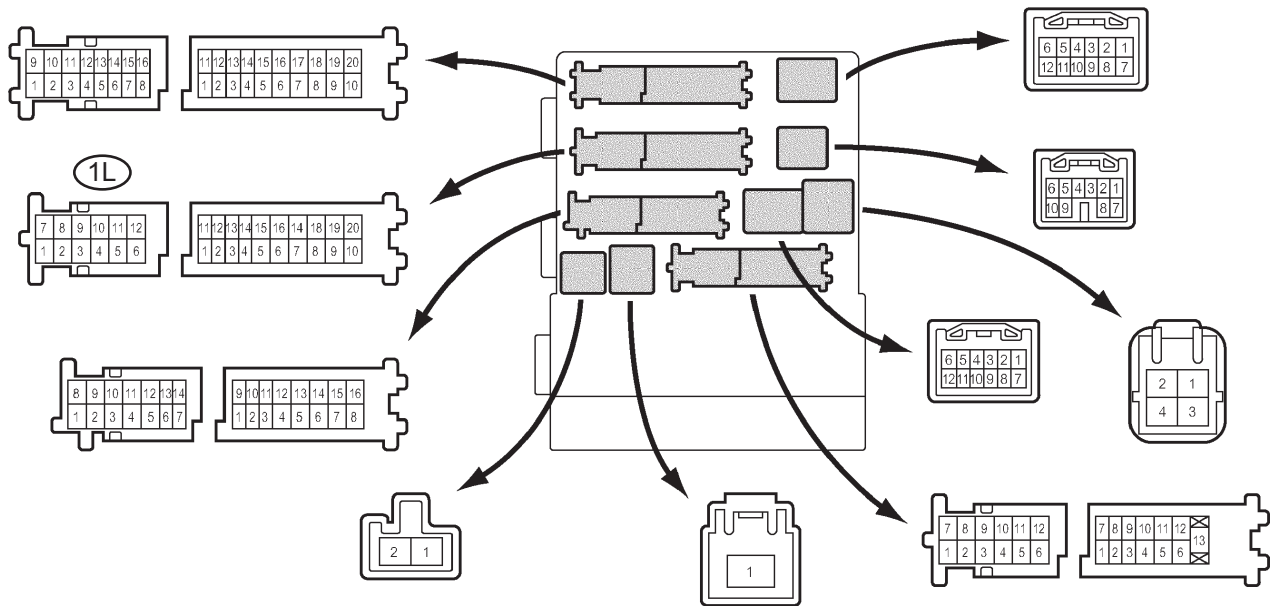
NG → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

OK

7 CHECK HARNESS AND CONNECTOR

- (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
1L-4 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V

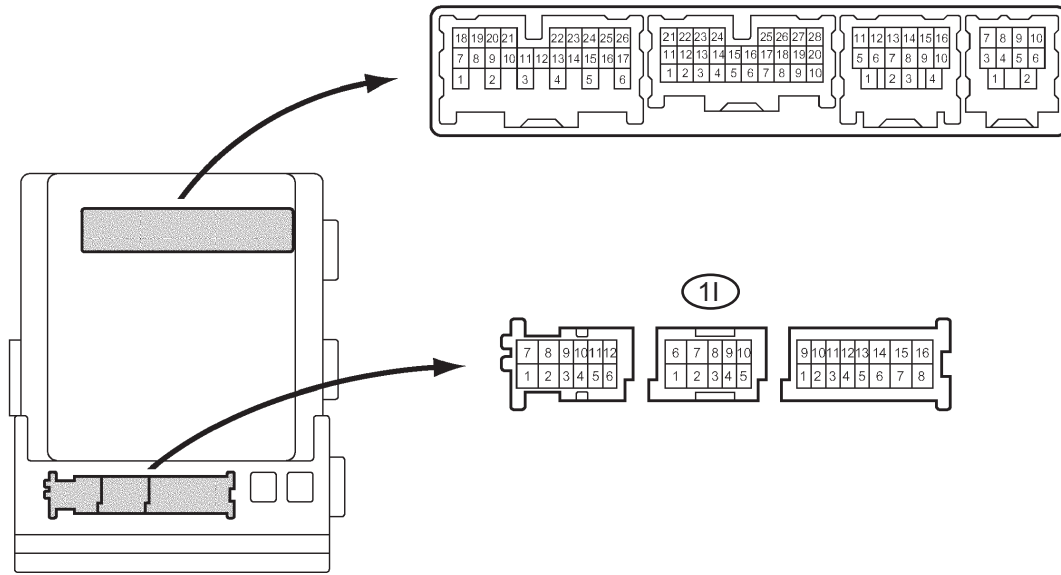
NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

8 INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

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

Instrument Panel Junction Block Assembly Back Side Wire Harness View:



H

E068613E02

Voltage

Tester connection	Condition	Specified condition
11-8 - Body ground	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V

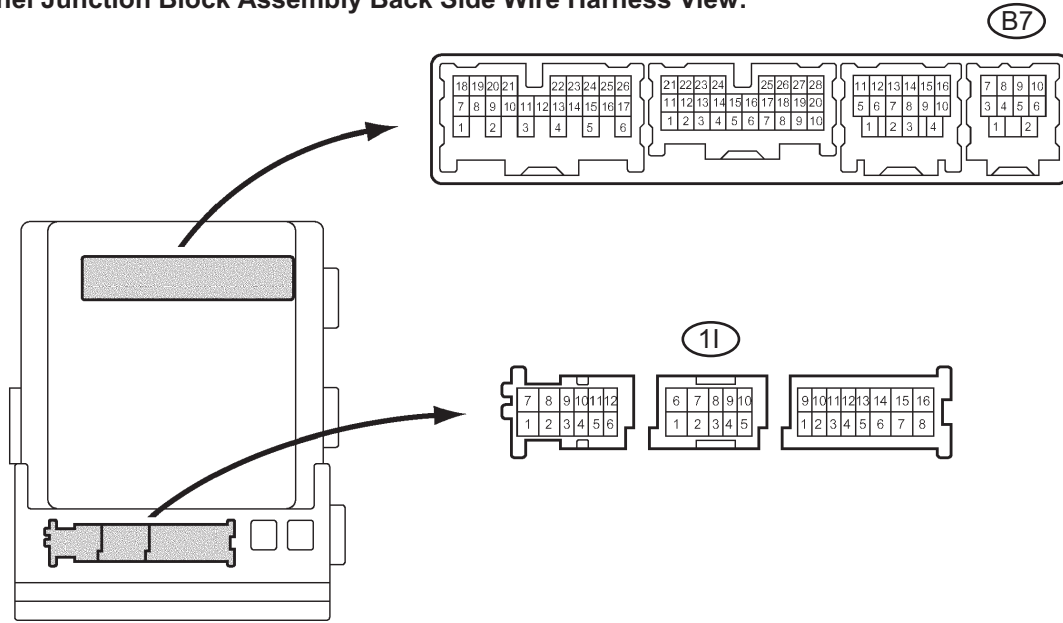
NG → **REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY**

OK

9 CHECK HARNESS AND CONNECTOR (MULTIPLEX NETWORK BODY ECU - INSTRUMENT PANEL JUNCTION BLOCK)

- (a) Disconnect the B7 connector of multiplex network body ECU and the 11 connector of the instrument panel junction block assembly.
- (b) Measure the resistance according to the value(s) in the table below.

Instrument Panel Junction Block Assembly Back Side Wire Harness View:



H

E068613E03

Resistance

Tester connection	Condition	Specified condition
B7-7 - 11-8	Always	Below 1 Ω

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

