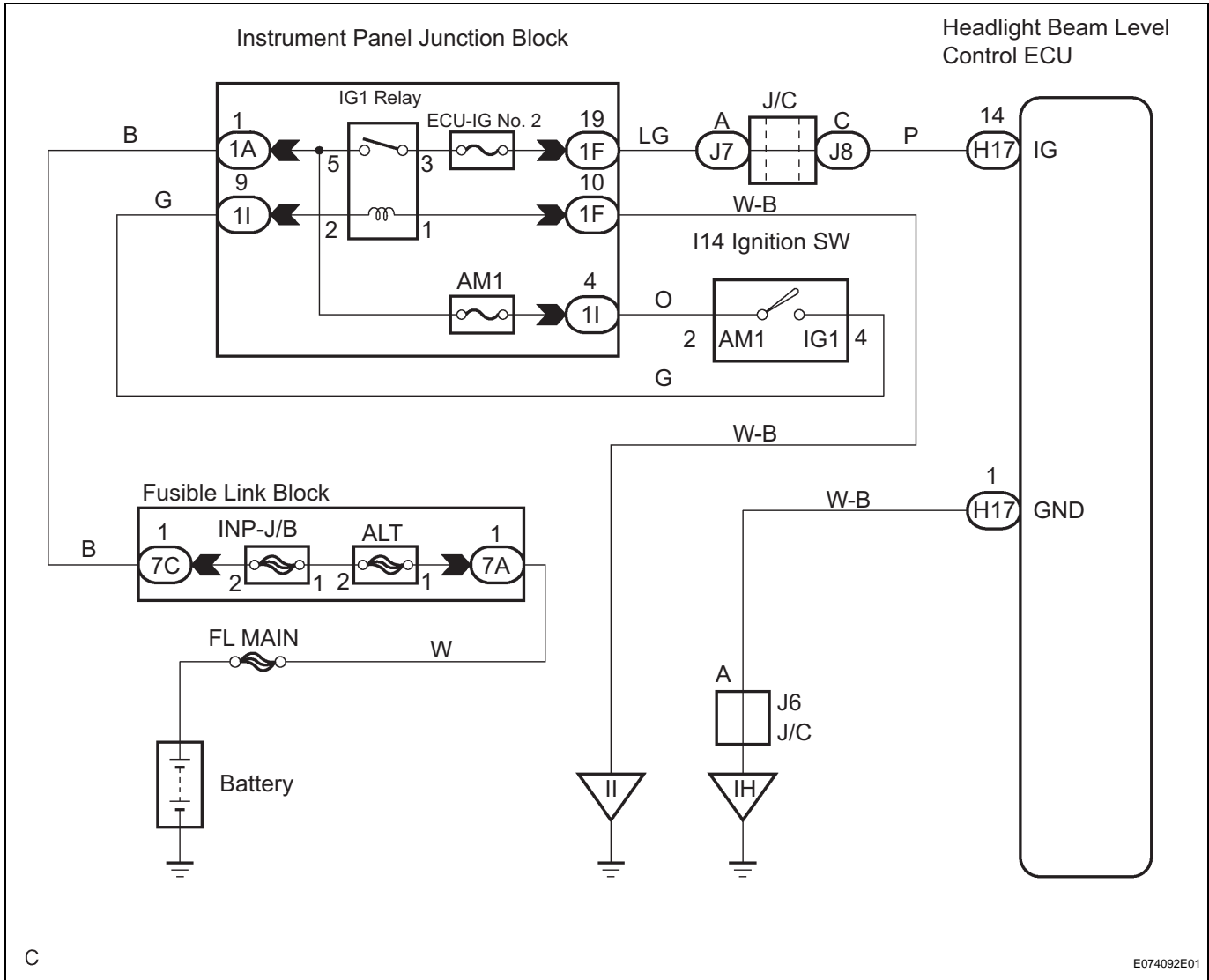


# Headlight Beam Level Control ECU Power Source Circuit

## DESCRIPTION

This circuit provides power to operate the headlight beam level control ECU.

## WIRING DIAGRAM



### 1 INSPECT FUSE

(a) Inspect the ECU-IG No.2 fuse in the instrument panel junction block assembly.

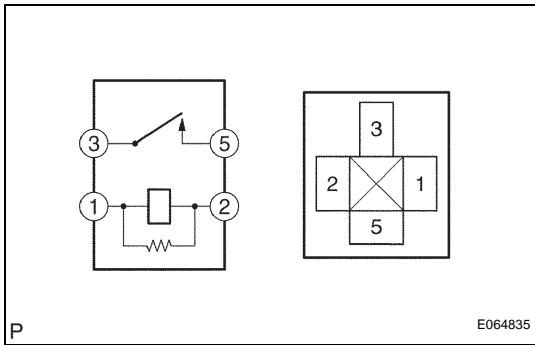
**Resistance:**

**Below 1 Ω**

**NG** → **REPLACE FUSE**

**OK**

**2 INSPECT IG1 RELAY**



- (a) Inspect IG1 relay continuity.
  - (1) Remove the IG1 relay from the instrument panel J/B assembly.
  - (2) Measure the resistance according to the value(s) in the table below.

**Resistance**

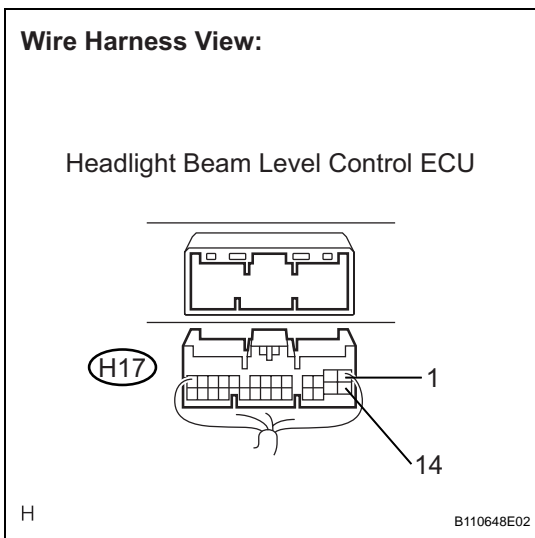
Tester connection	Condition	Specified resistance
3 - 5	Always	10 kΩ or higher
3 - 5	Apply B+ between the terminal 1 and 2	Below 1 Ω

**NG** → **REPLACE RELAY**

**OK**

**LI**

**3 INSPECT HEADLIGHT BEAM LEVEL CONTROL ECU**



- (a) Disconnect the H17 connector of headlight beam level control ECU.
- (b) Measure the voltage according to the value(s) in the table below.

**Voltage**

Tester connection	Condition	Specified condition
H17-14 (IG) - H17-1 (GND)	Ignition switch OFF → ON	Below 1 V → 10 to 14 V

**NG** → **Go to step 4**

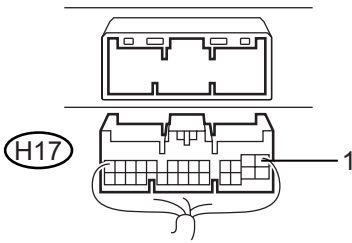
**OK**

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

**4 CHECK HARNESS AND CONNECTOR (HEADLIGHT BEAM LEVEL CONTROL ECU - BODY GROUND)**

Wire Harness View:

Headlight Beam Level Control ECU



- (a) Disconnect the H17 connector of headlight beam level control ECU.
- (b) Measure the resistance according to the value(s) in the table below.

**Resistance**

Tester connection	Condition	Specified condition
H17-1 (GND) - Body ground	Always	Below 1 Ω

**NG**

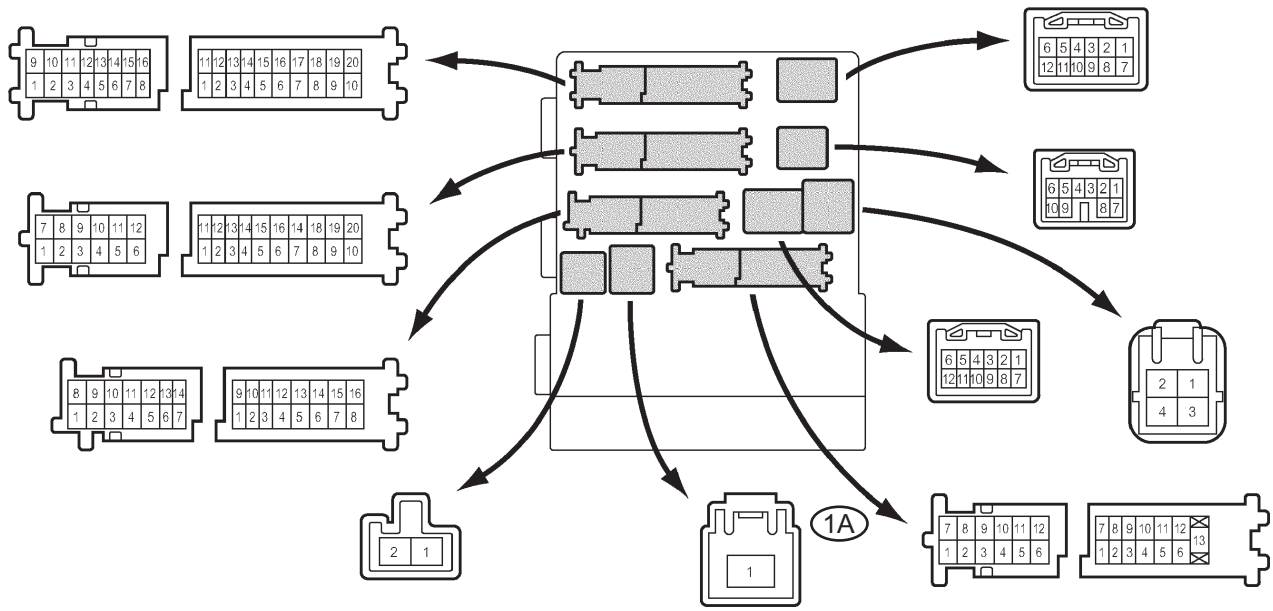
**REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**5 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

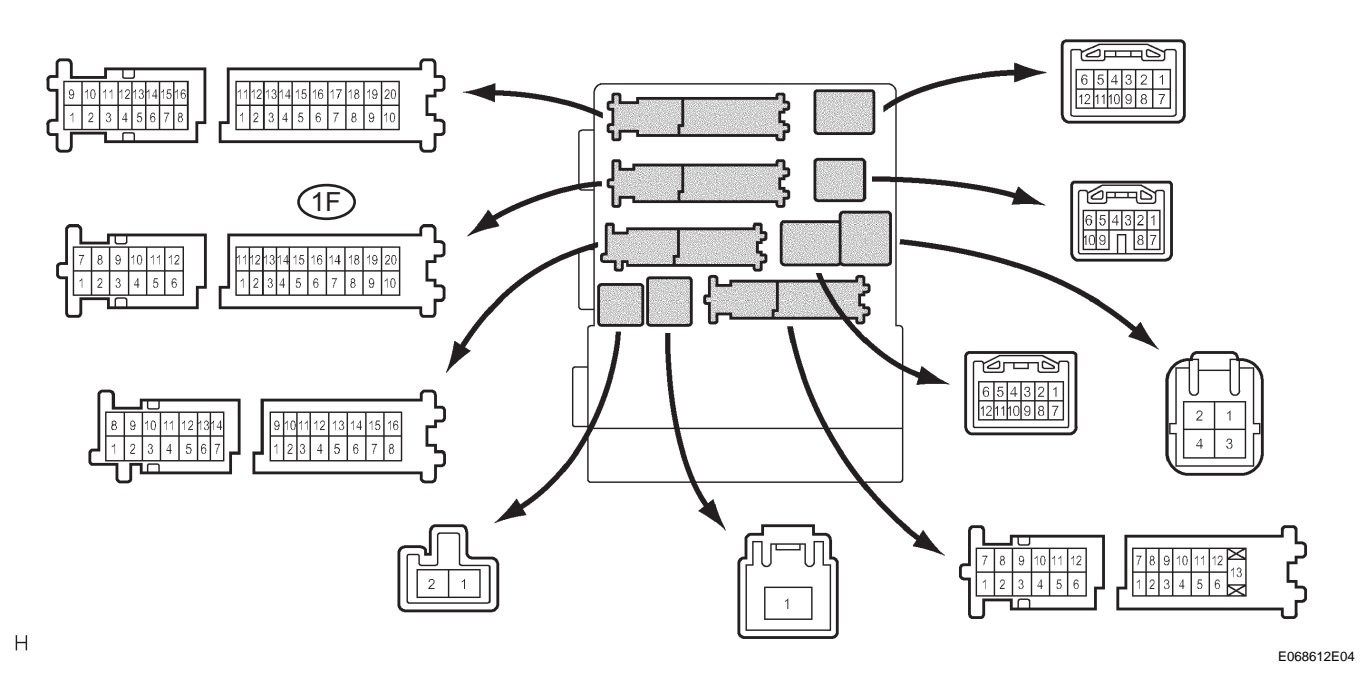
**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR (BATTERY - INSTRUMENT PANEL J/B ASSEMBLY)

**OK**

**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**

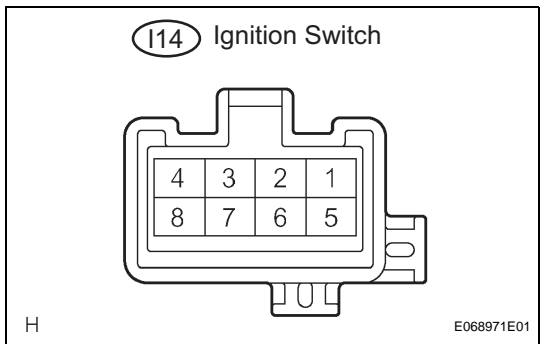
Tester connection	Condition	Specified condition
1F-19 - Body ground	Ignition switch OFF → ON	Below 1 V → 10 to 14 V

**NG** → **Go to step 7**

**OK**

**REPAIR OR REPLACE HARNESS OR CONNECTOR (INSTRUMENT PANEL J/B ASSEMBLY - LEVEL CONTROL ECU)**

**7 INSPECT IGNITION SWITCH**



- (a) Disconnect the ignition switch connector.
- (b) Measure the resistance according to the value(s) in the table below.

**Resistance**

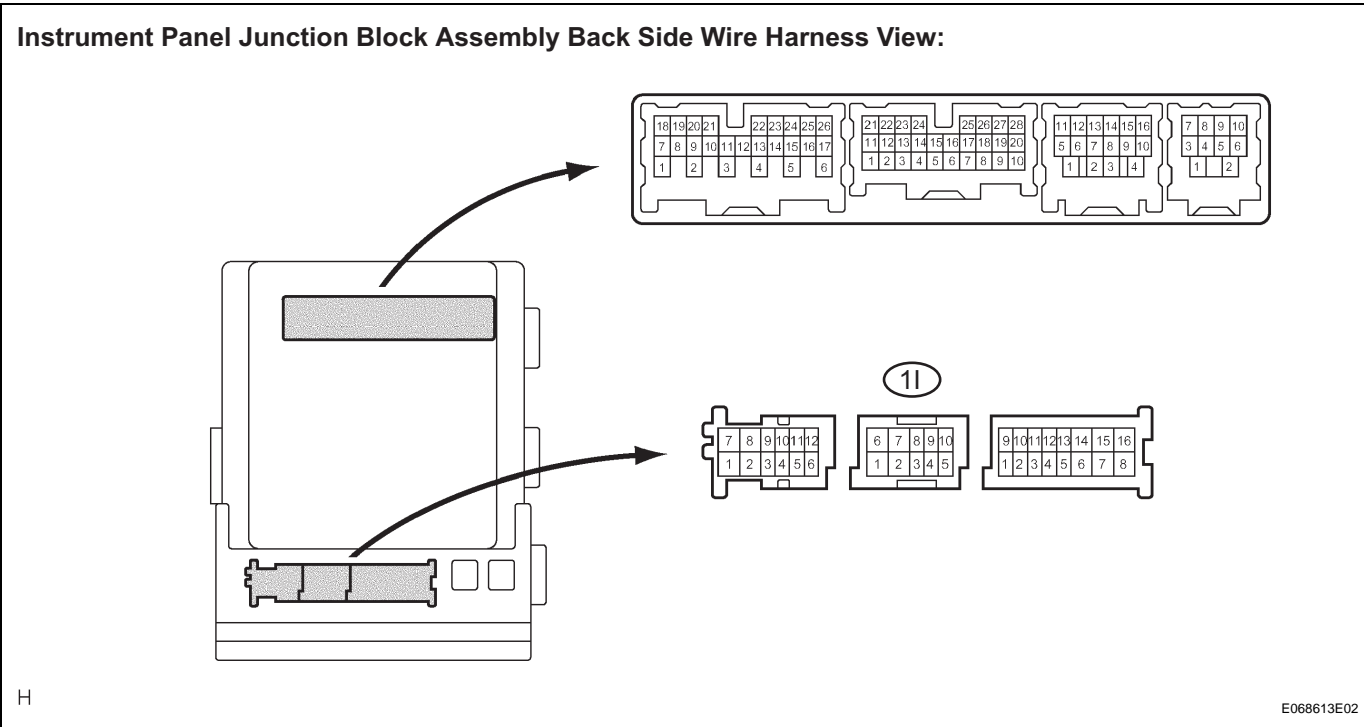
Tester connection	Condition	Specified resistance
2 - 4	Ignition switch OFF	10 kΩ or higher
2 - 4	Ignition switch ON	Below 1 Ω

**NG** → **REPLACE IGNITION SWITCH**

OK

**8 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
11-4 - Body ground	Always	10 to 14 V

NG

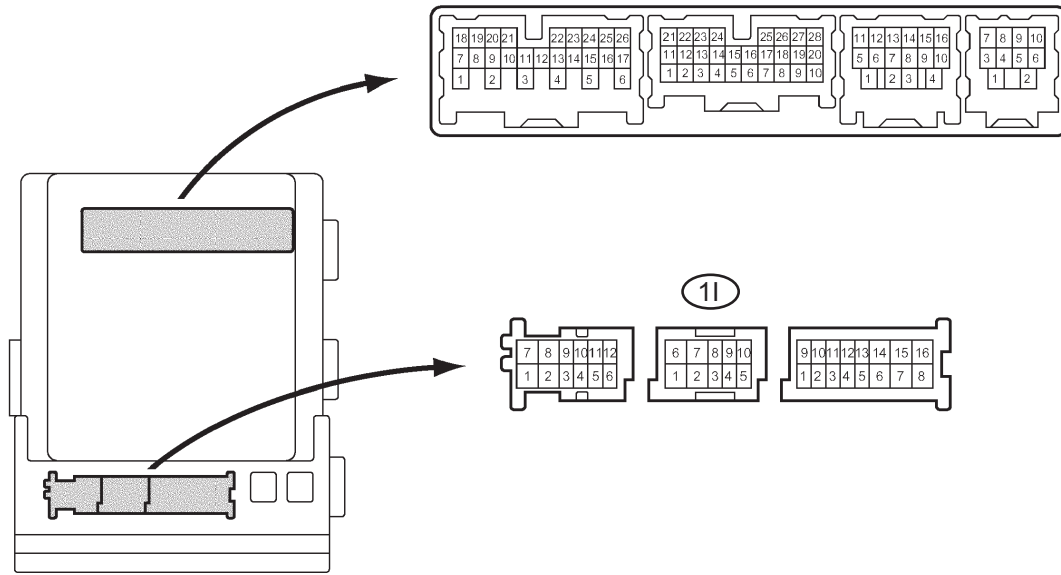
**REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY**

OK

**9 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
1I-9 - Body ground	Ignition switch OFF → ON	Below 1 V → 10 to 14 V

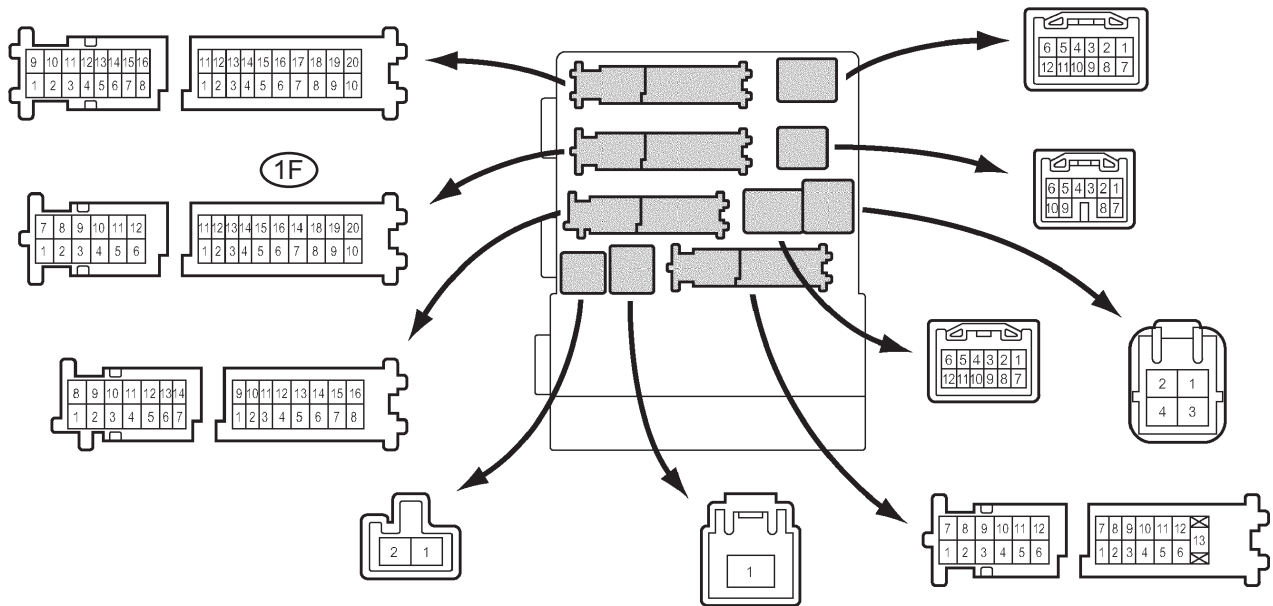
**NG** → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**10 CHECK HARNESS AND CONNECTOR (INSTRUMENT PANEL J/B ASSEMBLY - BODY GROUND)**

- (a) Disconnect the 1F connector from the instrument panel junction block assembly.
- (b) Measure the resistance according to the value(s) in the table below.

Instrument Panel Junction Block Assembly Front Side Wire Harness View:



H

E068612E04

Resistance

Tester connection	Condition	Specified condition
1F-10 - Body ground	Always	Below 1 Ω

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

**OK**

**REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY**

