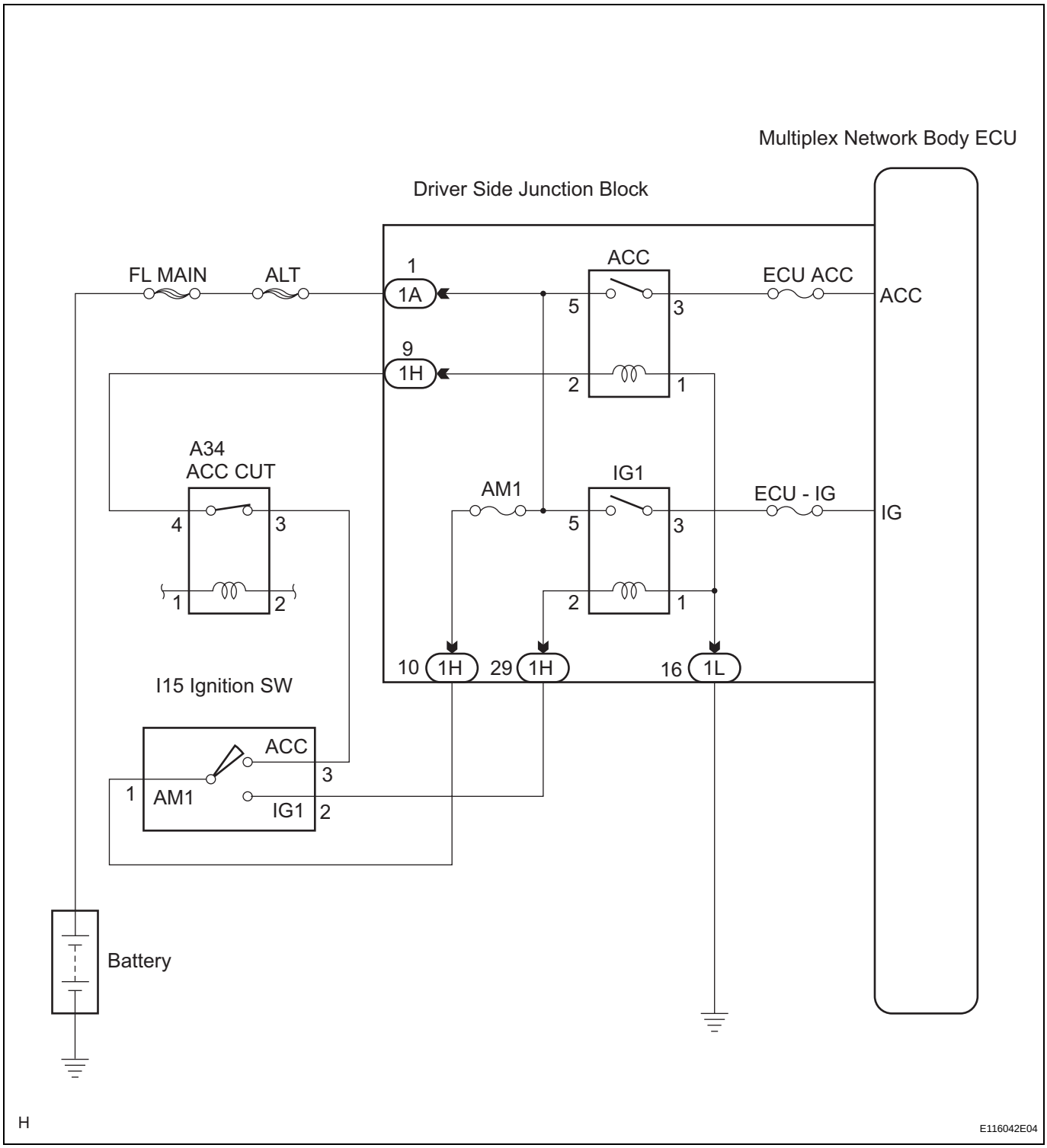
Ignition Switch Circuit

DESCRIPTION

The Multiplex network body ECU receives the ACC and IG signals from the ignition switch.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER

(a) Connect the intelligent tester to DLC3.
(b) Turn the ignition switch ON and push the intelligent tester main switch ON.
(c) Select the items below in the DATA LIST, and read the displays on the intelligent tester.

BODY NO.1:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
ACC SW	ACC SW signal / ON or OFF	ON: Ignition key is in ACC, ON or START position OFF: Ignition key is in OFF position	-
IG SW	IG SW signal / ON or OFF	ON: Ignition key is in ON or START position OFF: Ignition key is in OFF or ACC position	-

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

NG

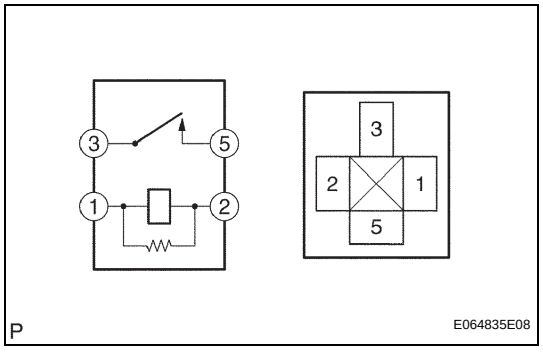
2	INSPECT FUSE

(a) Inspect the ECU ACC fuse, ECU-IG fuse and AM1 fuse in instrument panel junction block assembly.

NG → **REPLACE FUSE**

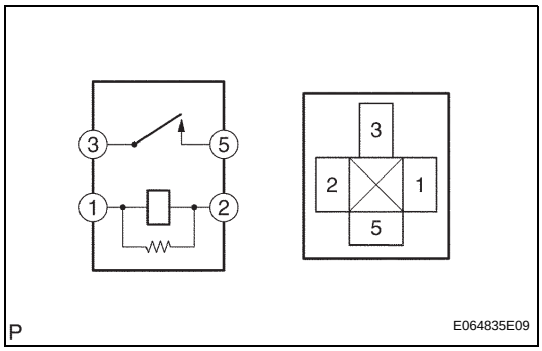
OK

3	INSPECT RELAY



(a) Inspect ACC relay continuity.
Resistance

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



(b) Inspect IG1 relay continuity.
Resistance

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

NG → **REPLACE RELAY**

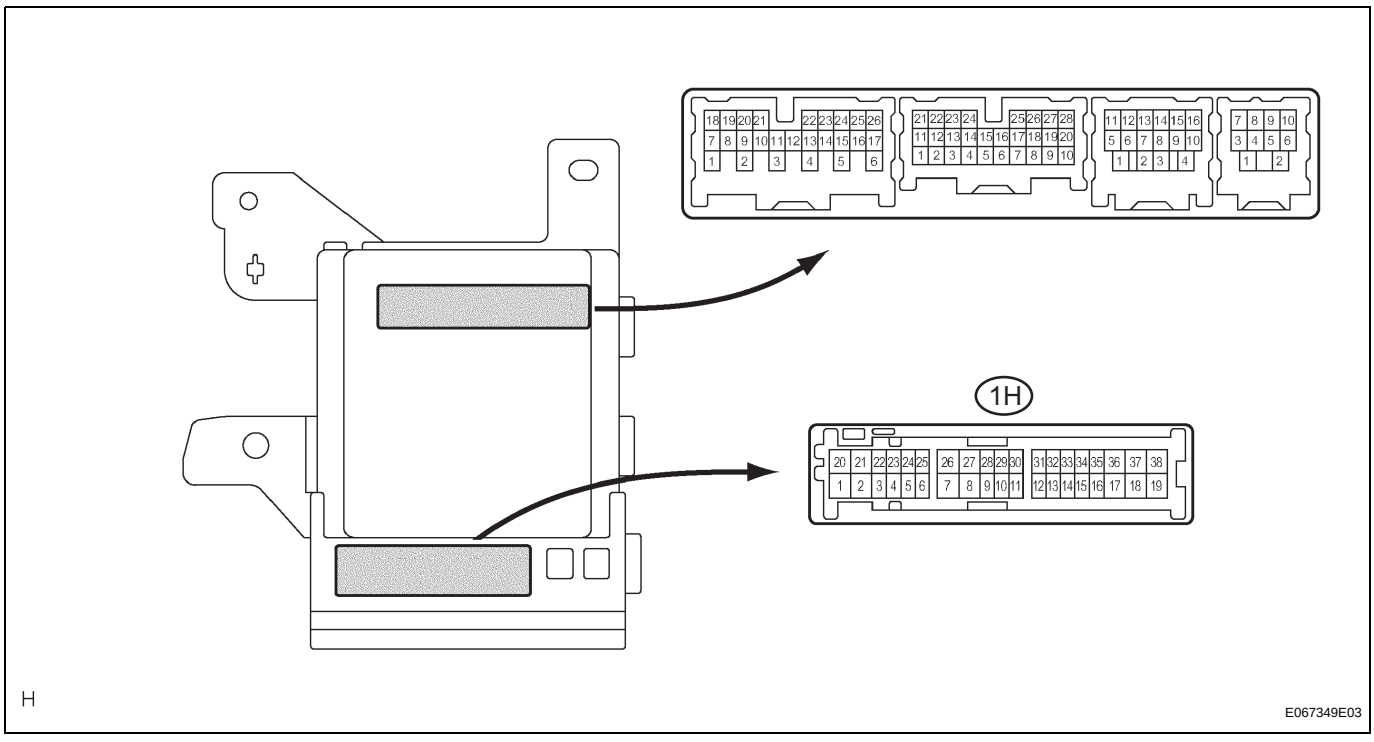
OK

4 INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY (ACC, IG)

(a) Measure the voltage between the terminals as shown in the chart below.

Voltage

Tester Connection	Condition	Specified Condition
1H-9 - Body ground	Ignition switch is OFF → ACC, ON	Below 1 V → 10 to 14 V
1H- 29 - Body ground	Ignition switch is OFF → ON	Below 1 V → 10 to 14 V



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

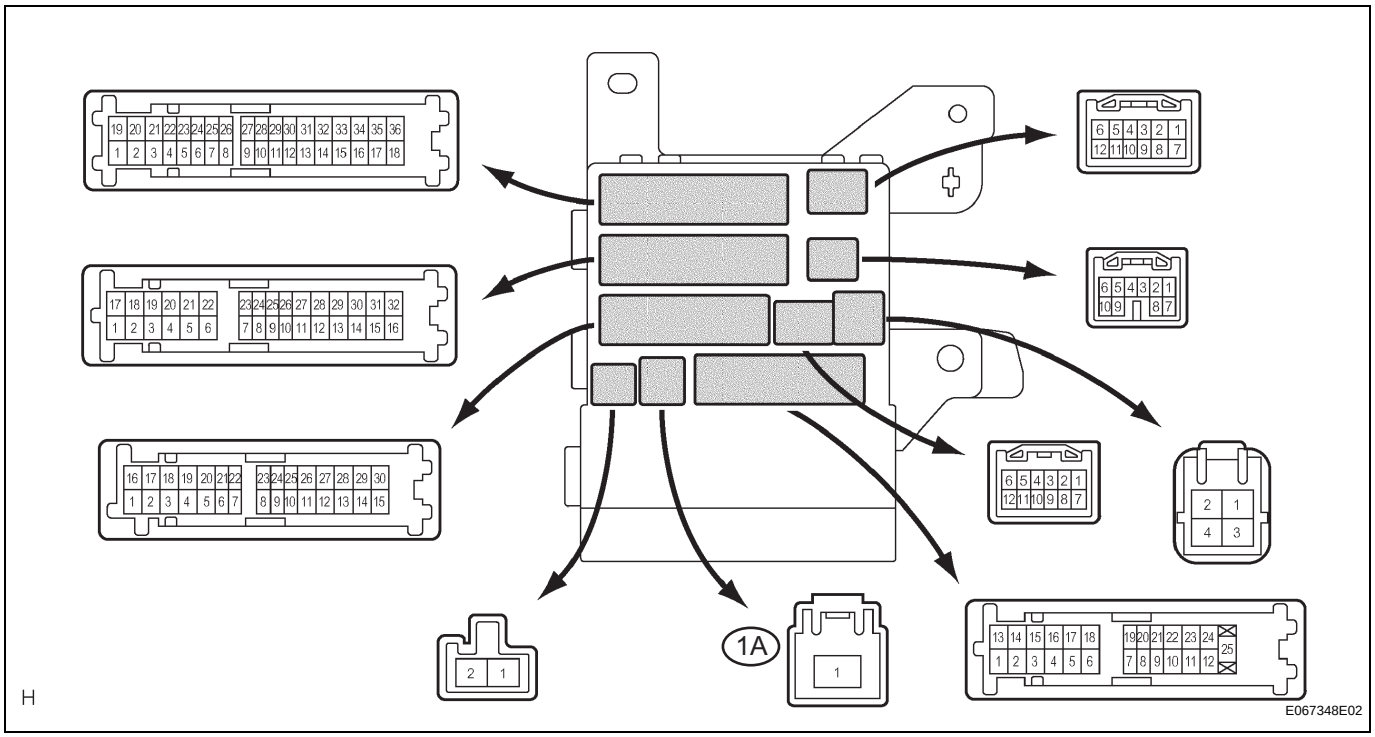
NG

5	INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY (+B)

(a) Measure voltage between the terminal 1A-1 of the instrument panel junction block assembly and body ground.

Voltage

Tester connection	Specified voltage
1A-1 - Body ground	10 to 14 V



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

OK

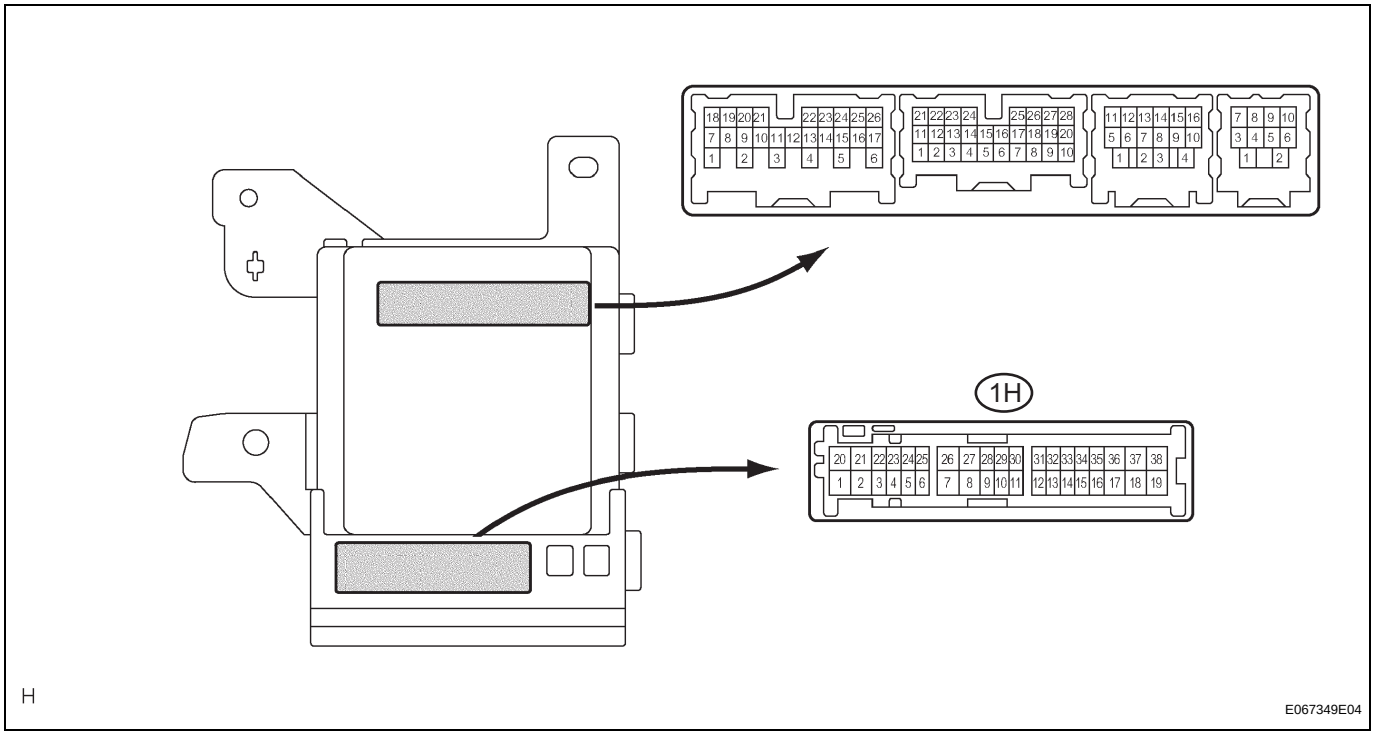
6	INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

(a) Measure voltage between the terminal 1H-10 of the instrument panel junction block assembly and body ground.

Voltage

Tester Connection	Condition	Specified Condition
1H-10 - Body ground	Always	10 to 14 V

LI



LI

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

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR