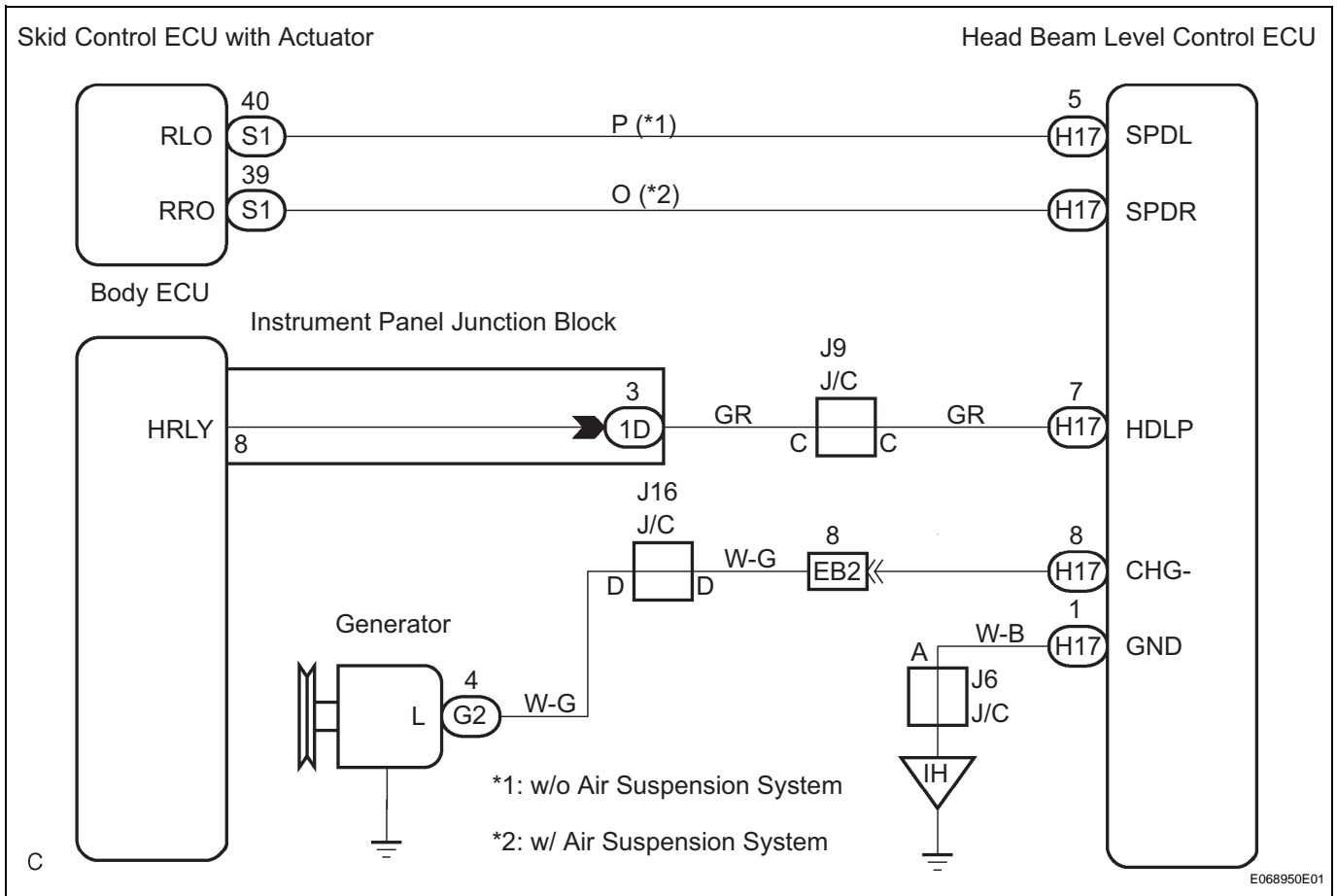


Headlight Beam Level Control ECU Communication Circuit

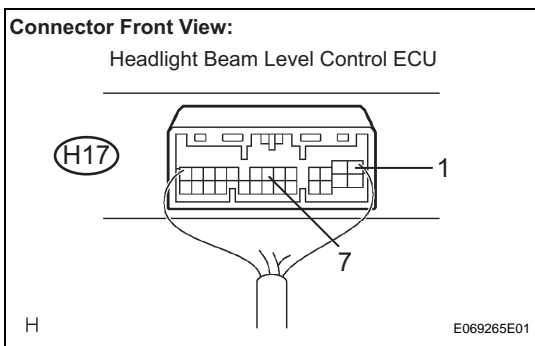
DESCRIPTION

Multiplex network body ECU sends signals that the headlight is ON and the daytime running light is on to the headlight beam level control ECU and operates the headlight beam level control system. Headlight beam level control ECU receives the vehicle speed signal from the skid control ECU, and engine condition from the generator assembly.

WIRING DIAGRAM



1 INSPECT HEADLIGHT BEAM LEVEL CONTROL ECU



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

Voltage

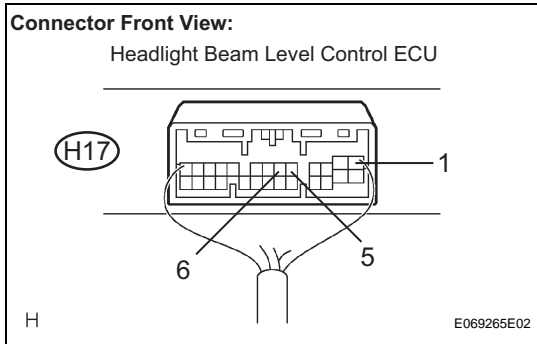
Tester Connection	Condition	Specified Condition
H17-7 (HDLP) - H17-1 (GND)	Light Control switch OFF → HEAD	10 to 14 V → Below 1 V

NG

Go to step 4

OK

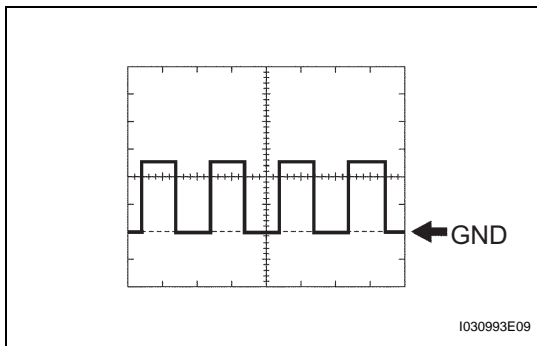
2 INSPECT HEADLIGHT BEAM LEVEL CONTROL ECU



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

Voltage

Tester Connection	Condition	Specified Condition
H17-5 (SPDL) - H17-1 (GND)	Drive at about 30 km/h (19 mph)	0 to 14 V Pulse generation (*1)
H17-6 (SPDR) - H17-1 (GND)	Drive at about 30 km/h (19 mph)	0 to 14 V Pulse generation (*1)



(b) *1: Oscilloscope wave
HINT:

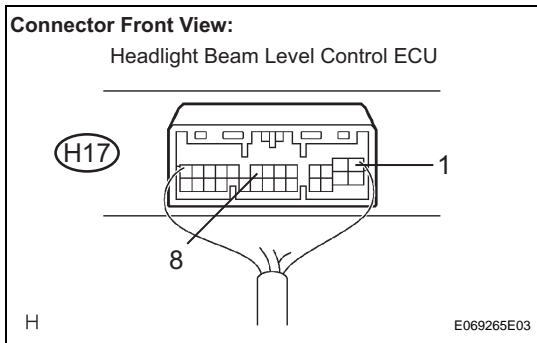
- Gauge set: 5 V/DIV. 2 ms/DIV
- Condition: Drive at about 30 km/h (19 mph)

NG

Go to step 5

OK

3 INSPECT HEADLIGHT BEAM LEVEL CONTROL ECU



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

Voltage

Tester Connection	Condition	Specified Condition
H17-8 (CHG-) - H17-1 (GND)	Engine is running	10 to 14 V

NG

Go to step 6

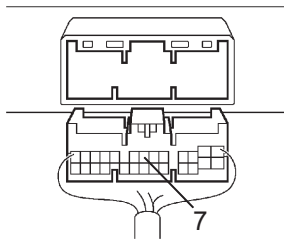
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

4 CHECK HARNESS AND CONNECTOR (INSTRUMENT PANEL J/B - HEADLIGHT BEAM LEVEL CONTROL ECU)

Wire Harness View:

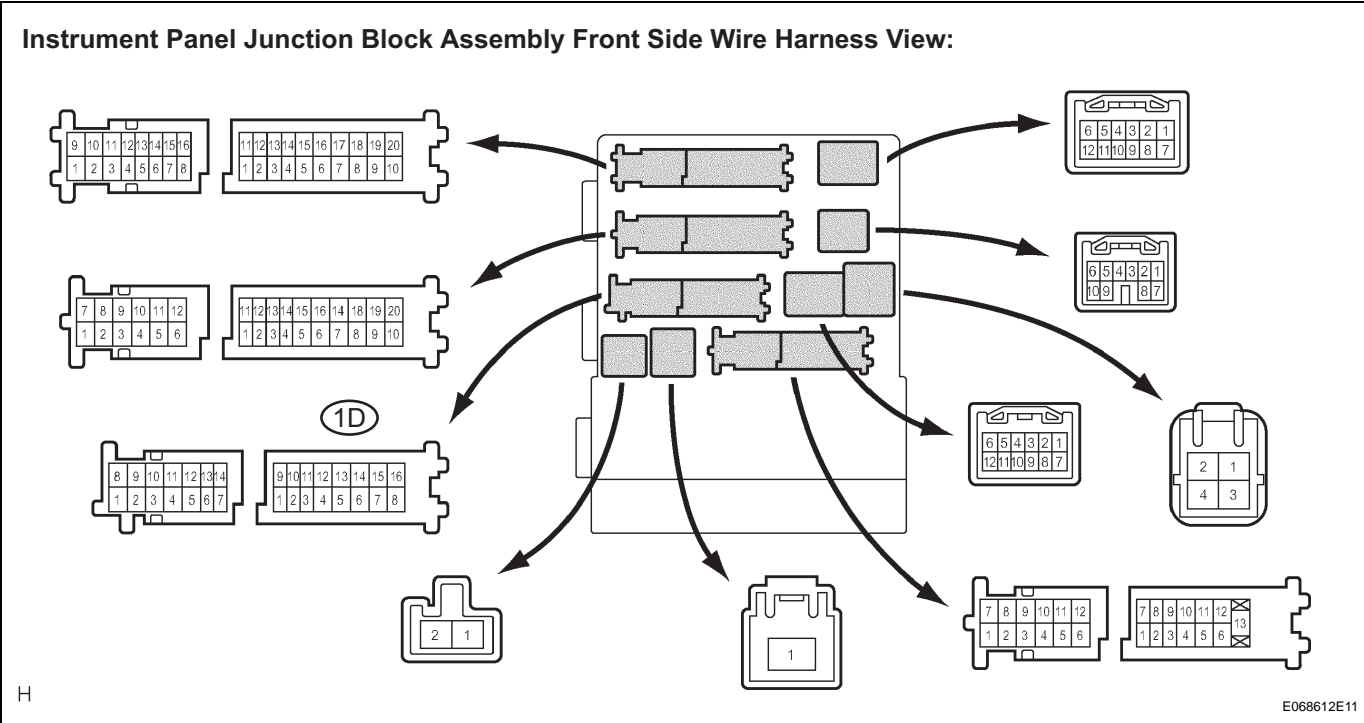
(H17) Headlight Beam Level Control ECU



- (a) Disconnect the 1D connector of instrument panel junction block assembly and 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
1D-3 - H17-7	Always	Below 1 Ω



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REPAIR OR REPLACE HARNESS OR CONNECTOR

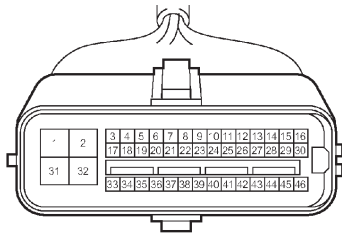
OK

GO TO FLOW CHART (HEADLIGHT RELAY CIRCUIT)

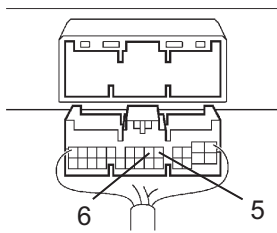
5 CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - HEADLIGHT BEAM LEVEL CONTROL ECU)

Wire Harness View:

(S1) Skid Control ECU with Actuator



(H17) Headlight Beam Level Control ECU



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- (a) Disconnect the S1 connector of skid control ECU and 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
S1-39 (RRO) - H17-6 (SPDR)	Always	Below 1 Ω
S1-40 (RLO) - H17-5 (SPDL)	Always	Below 1 Ω

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REPAIR OR REPLACE HARNESS OR CONNECTOR

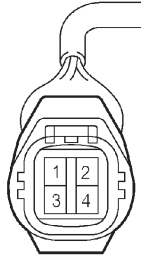
OK

GO TO FLOW CHART OR PROBLEM SYMPTOMS TABLE

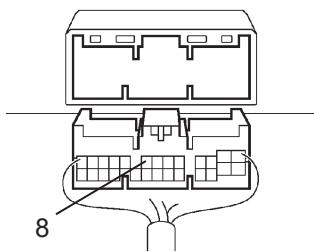
6 CHECK HARNESS AND CONNECTOR (GENERATOR ASSEMBLY - HEADLIGHT BEAM LEVEL CONTROL ECU)

Wire Harness View:

G2 Generator



H17 Headlight Beam Level Control ECU



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- (a) Disconnect the G2 connector generator and 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
G2-4 (L) - H17-8 (CHG-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPAIR OR REPLACE GENERATOR ASSEMBLY

