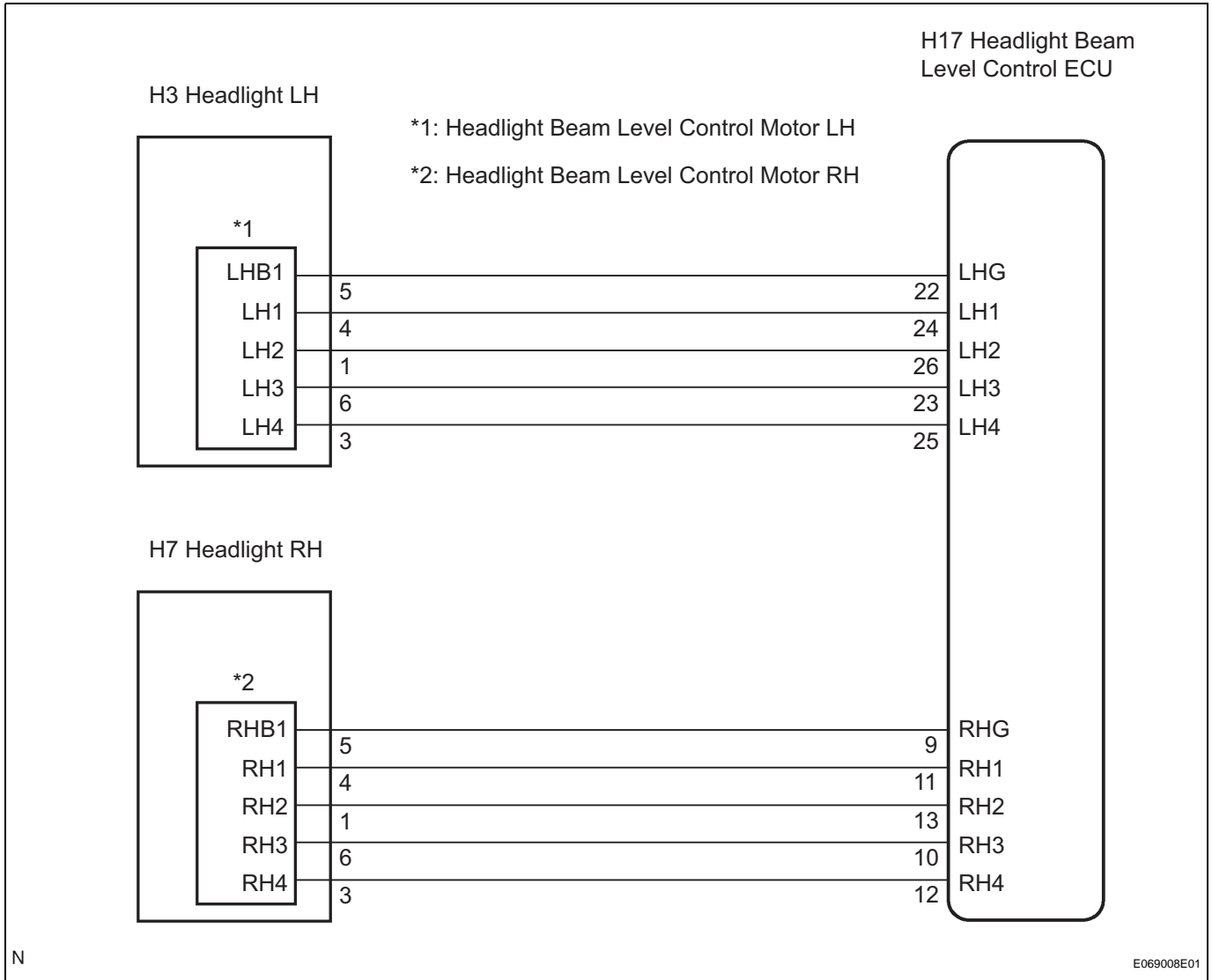


# Headlight Beam Level Control Actuator Circuit

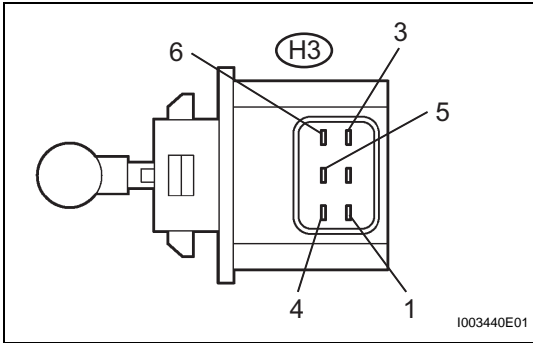
## DESCRIPTION

When the actuator is received a signal from the headlight beam level control ECU, the step motor is activated and the angle of the reflector in the headlight will be adjusted.

## WIRING DIAGRAM



**1 INSPECT HEADLIGHT BEAM LEVEL CONTROL MOTOR LH**



- (a) Disconnect the connector from headlight beam level control motor LH.
- (b) Measure the resistance according to the value(s) in the table below.

**Resistance**

Tester connection	Condition	Specified condition
1 (LH2) - 5 (LHB1)	Always	26 to 30 Ω
3 (LH4) - 5 (LHB1)	Always	26 to 30 Ω
4 (LH1) - 5 (LHB1)	Always	26 to 30 Ω
6 (LH3) - 5 (LHB1)	Always	26 to 30 Ω

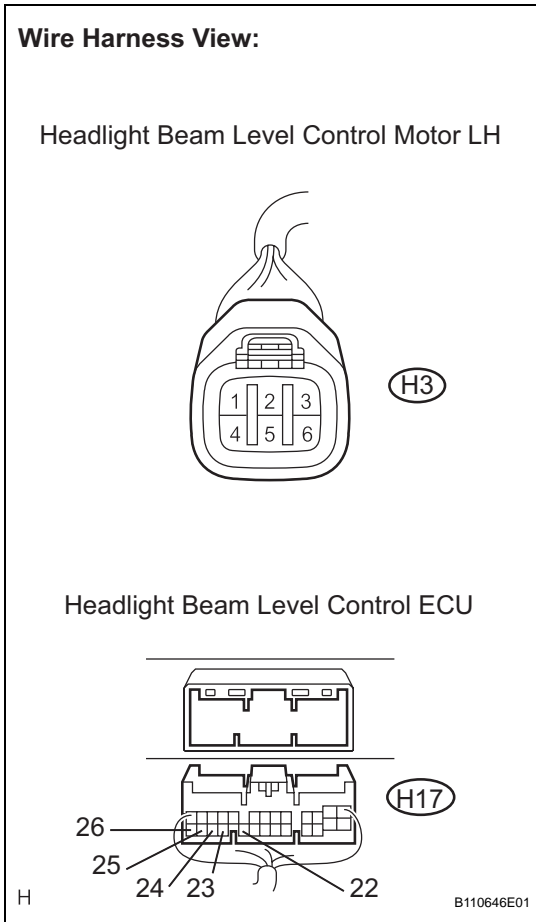


**NG**

**REPLACE HEADLIGHT BEAM LEVEL CONTROL MOTOR LH**

**OK**

**2 CHECK HARNESS AND CONNECTOR (LEVEL CONTROL MOTOR LH - LEVEL CONTROL ECU)**



- (a) Disconnect the H3 connector of headlight beam level control motor LH and the H17 connector of the headlight beam level control ECU.
- (b) Measure the resistance according to the value(s) in the table below.

LI

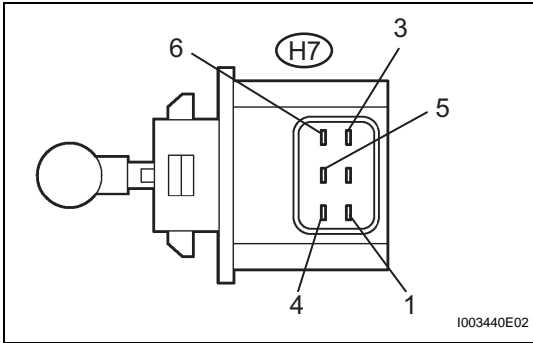
**Resistance**

Tester connection	Condition	Specified condition
H3-1 (LH2) - H17-26 (LH2)	Always	Below 1 Ω
H3-3 (LH4) - H17-25 (LH4)	Always	Below 1 Ω
H3-4 (LH1) - H17-24 (LH1)	Always	Below 1 Ω
H3-5 (LHB1) - H17-22 (LHG)	Always	Below 1 Ω
H3-6 (LH3) - H17-23 (LH3)	Always	Below 1 Ω
H17-26 (LH2) - Body ground	Always	10 kΩ or higher
H17-25 (LH4) - Body ground	Always	10 kΩ or higher
H17-24 (LH1) - Body ground	Always	10 kΩ or higher
H17-22 (LHG) - Body ground	Always	10 kΩ or higher
H17-23 (LH3) - Body ground	Always	10 kΩ or higher

**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

**3 INSPECT HEADLIGHT BEAM LEVEL CONTROL MOTOR RH**



- (a) Disconnect the connector from headlight leveling motor RH.
- (b) Measure the resistance according to the value(s) in the table below.

**Resistance**

Tester connection	Condition	Specified condition
1 (RH2) - 5 (RHB1)	Always	26 to 30 Ω
3 (RH4) - 5 (RHB1)	Always	26 to 30 Ω
4 (RH1) - 5 (RHB1)	Always	26 to 30 Ω
6 (RH3) - 5 (RHB1)	Always	26 to 30 Ω

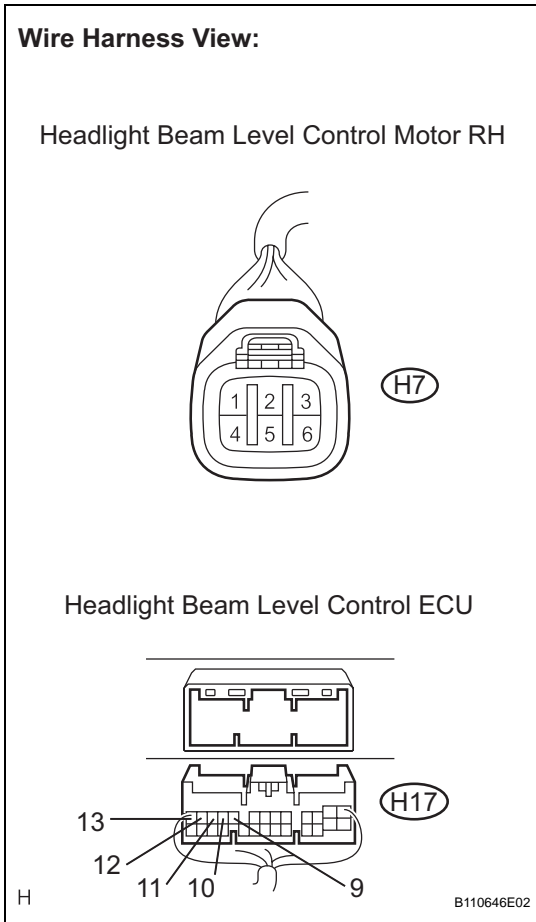


**NG**

**REPLACE HEADLIGHT BEAM LEVEL CONTROL MOTOR RH**

**OK**

**4 CHECK HARNESS AND CONNECTOR (LEVEL CONTROL MOTOR RH - LEVEL CONTROL ECU)**



- (a) Disconnect the H7 connector of headlight beam level control motor RH and the H17 connector of the headlight beam level control ECU.
- (b) Measure the resistance according to the value(s) in the table below.



**Resistance**

Tester connection	Condition	Specified condition
H7-1 (RH2) - H17-13 (RH2)	Always	Below 1 Ω
H7-3 (RH4) - H17-12 (RH4)	Always	Below 1 Ω
H7-4 (RH1) - H17-11 (RH1)	Always	Below 1 Ω
H7-5 (RHB1) - H17-9 (RHG)	Always	Below 1 Ω
H7-6 (RH3) - H17-10 (RH3)	Always	Below 1 Ω
H17-13 (RH2) - Body ground	Always	10 kΩ or higher
H17-12 (RH4) - Body ground	Always	10 kΩ or higher
H17-11 (RH1) - Body ground	Always	10 kΩ or higher
H17-9 (RHG) - Body ground	Always	10 kΩ or higher
H17-10 (RH3) - Body ground	Always	10 kΩ or higher

**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

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