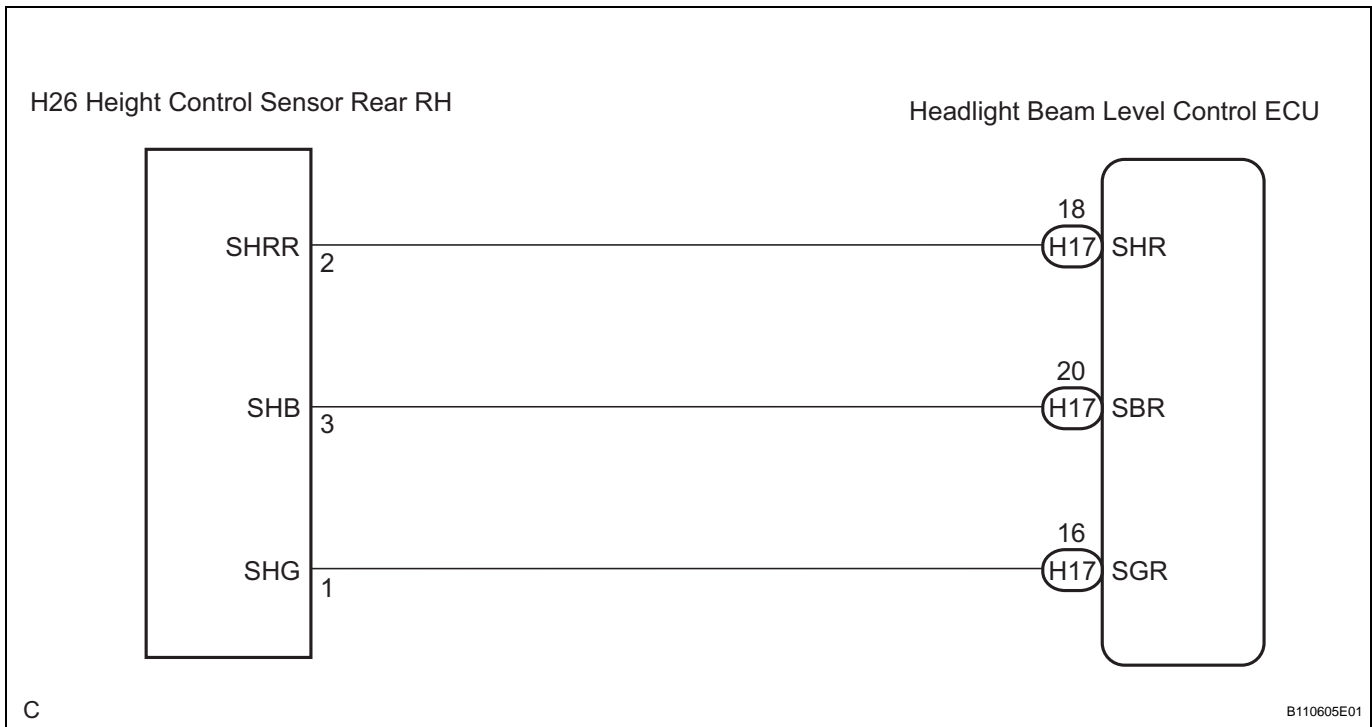# Height Control Sensor Circuit

DESCRIPTION

The headlight beam level control ECU receives the height control sensor signal from the height control sensor sub-assembly or headlight control ECU.

The headlight beam level control ECU calculates a height value from the height control signal. The voltage at the power source of the height control sensor is corrected when SHF or SHR is detected.

WIRING DIAGRAM

LI

H26 Height Control Sensor Rear RH

Headlight Beam Level Control ECU

SHRR	2		18 H17	SHR
SHB	3		20 H17	SBR
SHG	1		16 H17	SGR

C

B110605E01

| **1** | **INSPECT HEIGHT CONTROL SENSOR SUB-ASSEMBLY REAR RH** |

(a) Connect 3 dry cell batteries (1.5 V) in a series.
(b) Connect the positive (+) lead from the battery to terminal 1 and negative (-) lead from the battery to terminal 3.
(c) Measure voltage between terminal 2 and terminal 3 when slowly move the link up and down.

FF:

4WD:

-45° (Low)

1.3° +-6°

+45° (High)

-45° (Low)

25.5° +-6°

+45° (High)

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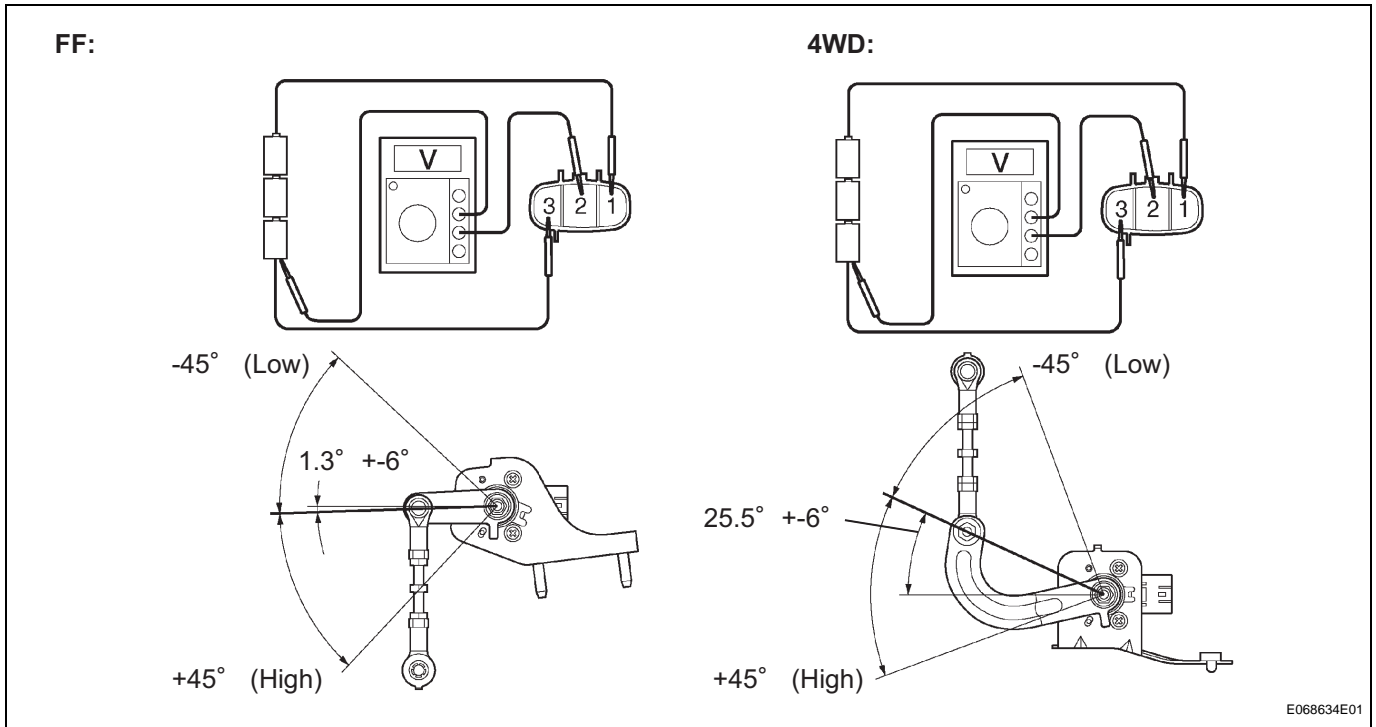
Voltage

Link Angle	Standard voltage
+45° (High)	4.5 V
0° (Normal)	2.5 V
-45° (Low)	0.5 V

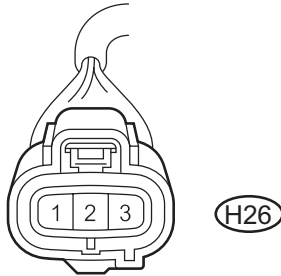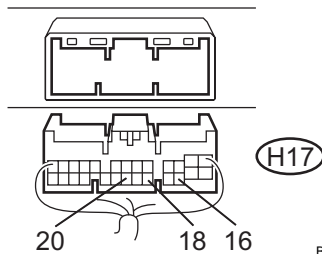NG ▷ **REPLACE HEIGHT CONTROL SENSOR SUB-ASSEMBLY REAR RH**

OK

2	CHECK HARNESS AND CONNECTOR (HEIGHT CONTROL SENSOR REAR RH - LEVEL CONTROL ECU)

Wire Harness View:

Height Control Sensor Rear RH

H26

Headlight Beam Level Control ECU

H17

H   20   18 16   B110647E01

(a) Disconnect the H26 connector of height control sensor sub-assembly and the H17 connector of headlight leveling ECU assembly.

(b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
H17-16 (SGR) - H26-1 (SHG)	Always	Below 1 Ω
H17-18 (SHR) - H26-2 (SHRR)	Always	Below 1 Ω
H17-20 (SBR) - H26-3 (SHB)	Always	Below 1 Ω
H26-1 (SHG) - Body ground	Always	10 kΩ or higher
H26-2 (SHRR) - Body ground	Always	10 kΩ or higher
H26-3 (SHB) - 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