HEIGHT CONTROL SENSOR CIRCUIT

CIRCUIT DESCRIPTION

The headlamp leveling ECU assy receives the height control sensor signal from the height control sensor sub–assy or height control ECU.

The headlamp leveling ECU assy calculates a height value from the height control signal. The voltage at the power source of the height control sensor is corrected when SHR is detected.

WIRING DIAGRAM
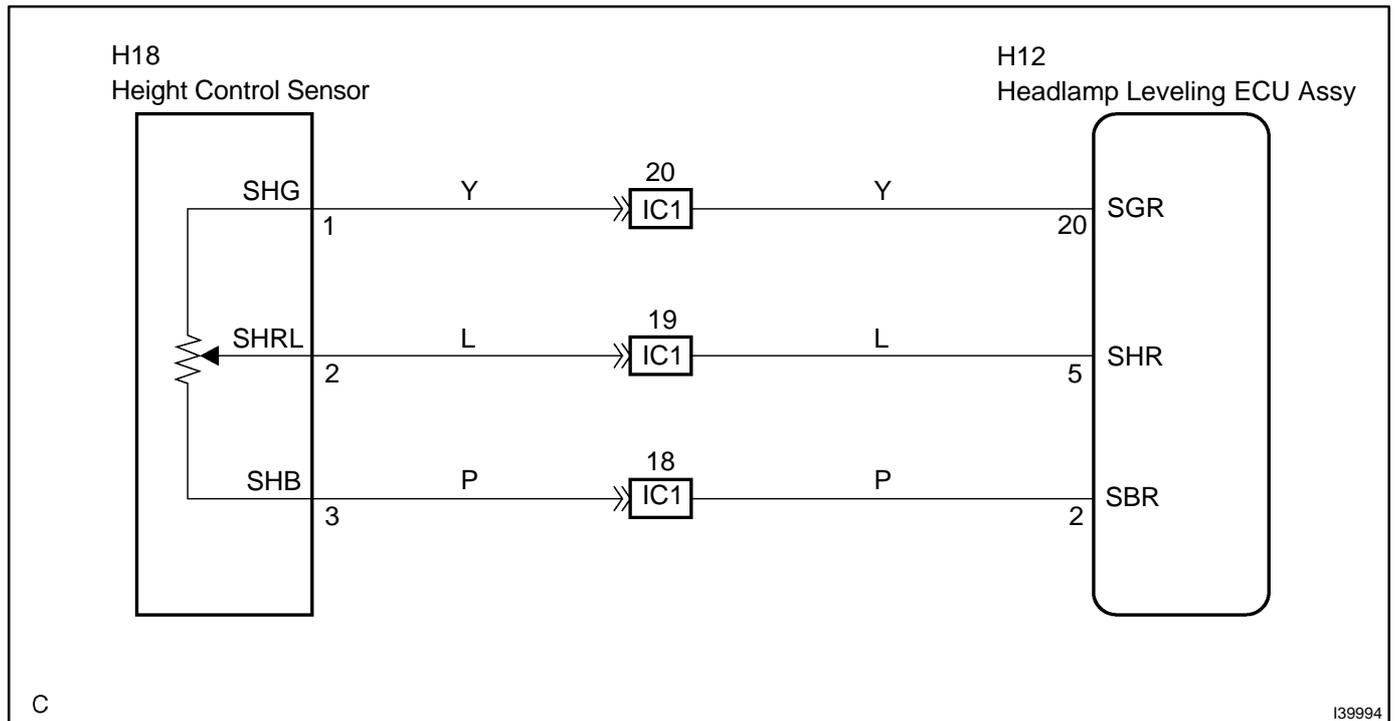
INSPECTION PROCEDURE

1	INSPECT HEIGHT CONTROL SENSOR SUB−ASSY REAR LH
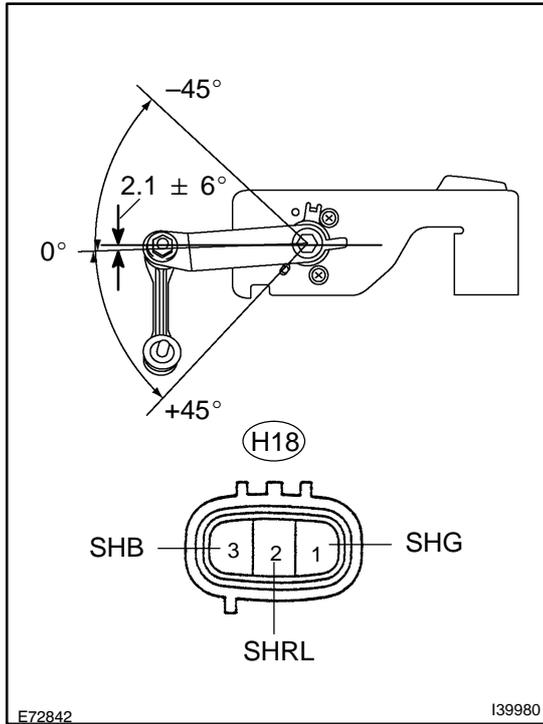
(a) Connect 3 dry cell batteries (1.5 V) in series.

(b) Connect the positive (+) lead from the battery to terminal 3 and negative (−) lead from the battery to terminal 1.

(c) Measure the voltage between terminals 1 and 2 when slowly moving the link up and down.
Standard:

Link angle	Standard voltage
+45° (High)	Approx. 4.5 V
0° (Normal)	Approx. 2.5 V
−45° (Low)	Approx. 0.5 V

NG ▷ **REPLACE HEIGHT CONTROL SENSOR SUB−ASSY REAR LH (SEE PAGE 65−25)**

OK

2	CHECK HARNESS AND CONNECTOR(HEIGHT CONTROL SENSOR SUB–ASSY REAR LH – HEADLAMP LEVELING ECU ASSY)

Wire Harness View:

(H18) Height Control Sensor Rear LH

SHG — [1 2 3] — SHB

SHRL
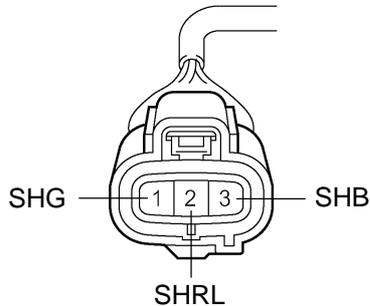
(H12) Headlamp Leveling ECU Assy

5 ... 2

20
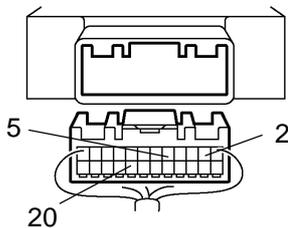
E69138
I39979   I39981

(a) Disconnect the H12 connector from headlamp leveling ECU assy.

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

Standard:

Tester connection	Condition	Specified condition
H12–20 (SGR) – H18–1 (SHG)	Always	Below 1 Ω
H12–5 (SHR) – H18–2 (SHRL)	Always	Below 1 Ω
H12–2 (SBR) – H18–3 (SHB)	Always	Below 1 Ω
H18–1 (SHG) – Body ground	Always	10 kΩ or higher
H18–2 (SHRL) – Body ground	Always	10 kΩ or higher
H18–3 (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 (SEE PAGE)