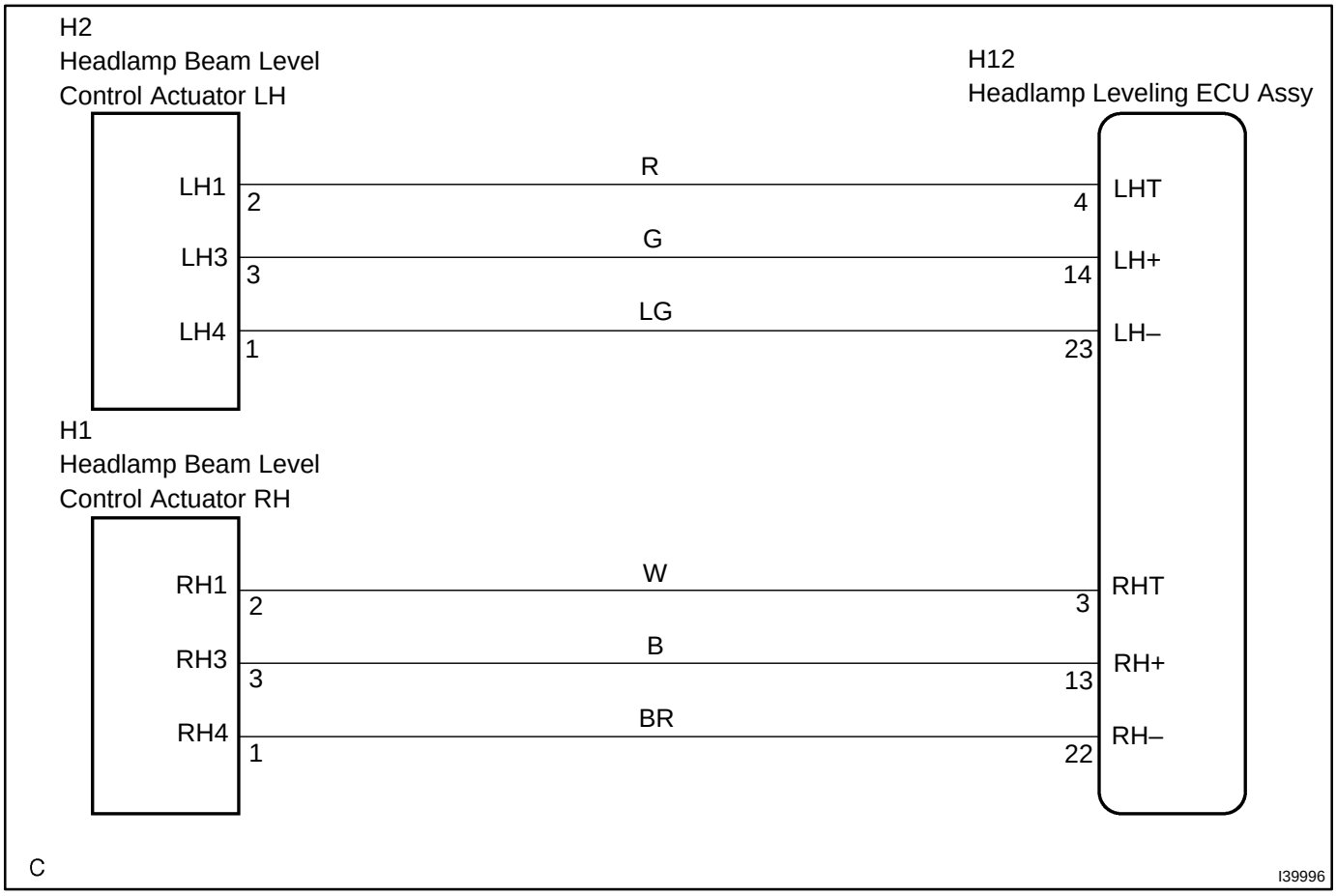
HEADLIGHT BEAM LEVEL CONTROL ACTUATOR CIRCUIT

CIRCUIT DESCRIPTION

When the actuator receives signals from the headlight beam level control ECU, the step motor is activated and the angle of the reflector in the headlamp will be adjusted.

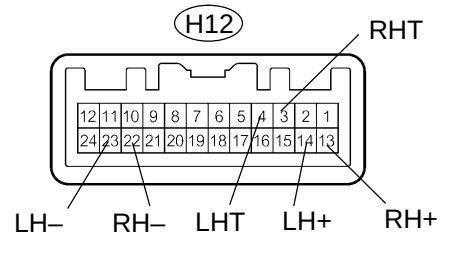
WIRING DIAGRAM



INSPECTION PROCEDURE

1	INSPECT HEADLAMP LEVELING ECU ASSY

Connector Front View:



(a) Disconnect the connector from each headlamp leveling control actuator.

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

Standard:

Tester connection	Condition	Specified condition
H12–13 (RH+) – H12–22 (RH–)	Power switch ON (IG)	10 to 14 V
H12–14 (LH+) – H12–23 (LH–)	Power switch ON (IG)	10 to 14 V
H12–3 (RHT) – H12–22 (RH–)	With power switch ON (IG) and headlamp ON, change the vehicle height and keep it for more than 2 seconds	10 to 12.6 V (Approx. 10 seconds)
H12–4 (LHT) – H12–23 (LH–)	With power switch ON (IG) and headlamp ON, change the vehicle height and keep it for more than 2 seconds	10 to 12.6 V (Approx. 10 seconds)

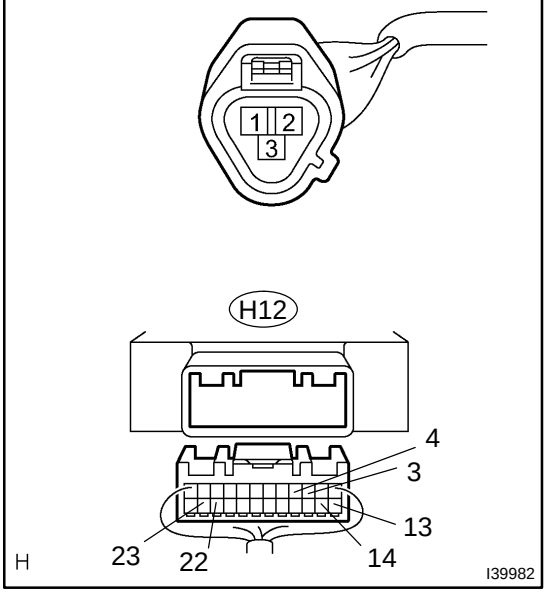
NG → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1677)**

OK

2 CHECK HARNESS AND CONNECTOR(HEADLAMP BEAM LEVEL CONTROL ACTUATOR – HEADLAMP LEVELING ECU ASSY)

Wire Harness View:

(H2) Headlamp Beam Level Control Actuator LH
(H1) Headlamp Beam Level Control Actuator RH



(a) Disconnect the connector of headlamp beam level control motor and the H12 connector of the headlamp beam level control ECU.

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

Standard:

LH Side:

Tester connection	Condition	Specified condition
H12–4 (LHT) – H2–2 (LH1)	Always	Below 1 Ω
H12–14 (LH+) – H2–3 (LH3)	Always	Below 1 Ω
H12–23 (LH–) – H2–1 (LH4)	Always	Below 1 Ω
H12–4 (LHT) – Body ground	Always	10 kΩ or higher
H12–14 (LH+) – Body ground	Always	10 kΩ or higher
H12–23 (LH–) – Body ground	Always	10 kΩ or higher

RH Side:

Tester connection	Condition	Specified condition
H12–3 (RHT) – H1–2 (RH1)	Always	Below 1 Ω
H12–13 (RH+) – H1–3 (RH3)	Always	Below 1 Ω
H12–22 (RH–) – H1–1 (RH4)	Always	Below 1 Ω
H12–3 (RHT) – Body ground	Always	10 kΩ or higher
H12–13 (RH+) – Body ground	Always	10 kΩ or higher
H12–22 (RH–) – Body ground	Always	10 kΩ or higher

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

OK

REPLACE HEADLAMP ASSY (HEADLAMP BEAM LEVEL CONTROL ACTUATOR)