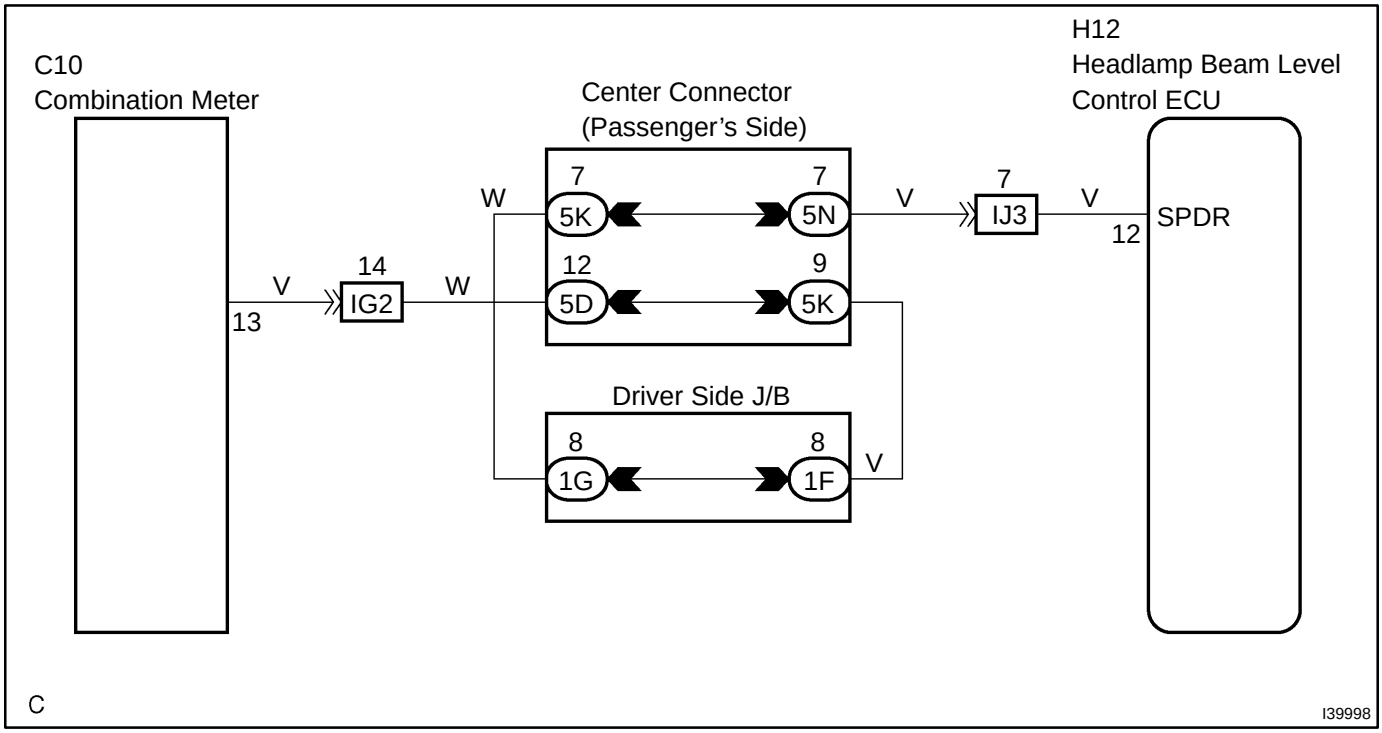
VEHICLE SPEED SIGNAL CIRCUIT

CIRCUIT DESCRIPTION

Headlamp beam level control ECU receives the vehicle speed signal from the combination meter.

WIRING DIAGRAM

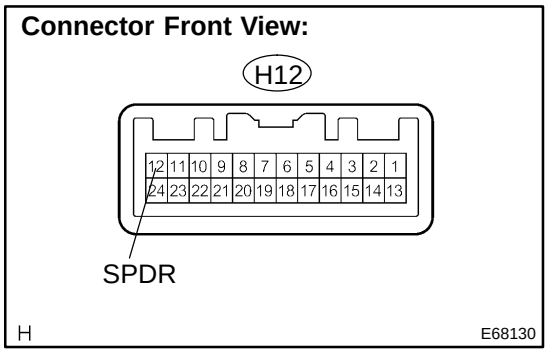


INSPECTION PROCEDURE

HINT:

Check if the combination meter operation is normal before performing the following procedure.

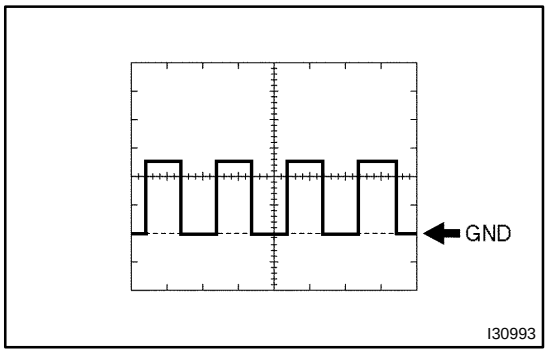
1	INSPECT HEADLAMP LEVELING ECU ASSY



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

Standard:

Tester connection	Condition	Specified condition
H12–12 (SPDR) – Body ground	Vehicle is driving approx. 30 km/h (19 mph)	0 to 14 V Pulse generation (Waveform 1)



Waveform 1: Oscilloscope wave

HINT:

- Gauge set: 5 V / DIV. 2 ms / DIV
- Condition: Vehicle is driving approximately 30 km/h (19 mph).

OK: Waveform is output as shown in the illustration.

NG → **Go to step 2**

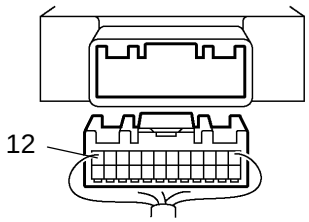
OK

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

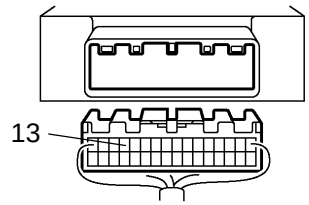
2	CHECK HARNESS AND CONNECTOR(COMBINATION METER ASSY – HEADLAMP LEVELING ECU ASSY)

Wire Harness View:

H12 Headlamp Leveling ECU Assy



C10 Combination Meter



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(a) Disconnect the combination meter connector and headlamp leveling ECU assy connector.

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

Standard:

Tester connection	Condition	Specified condition
H12–12 – C10–13	Always	Below 1 Ω
H12–12 – Body ground	Always	10 kΩ or higher

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

OK

REPLACE COMBINATION METER ASSY (SEE PAGE 71–19)