OPERATING LIGHT CONTROL RHEOSTAT DOES NOT CHANGE LIGHT BRIGHTNESS

WIRING DIAGRAM

LHD Models:

RHD Models:
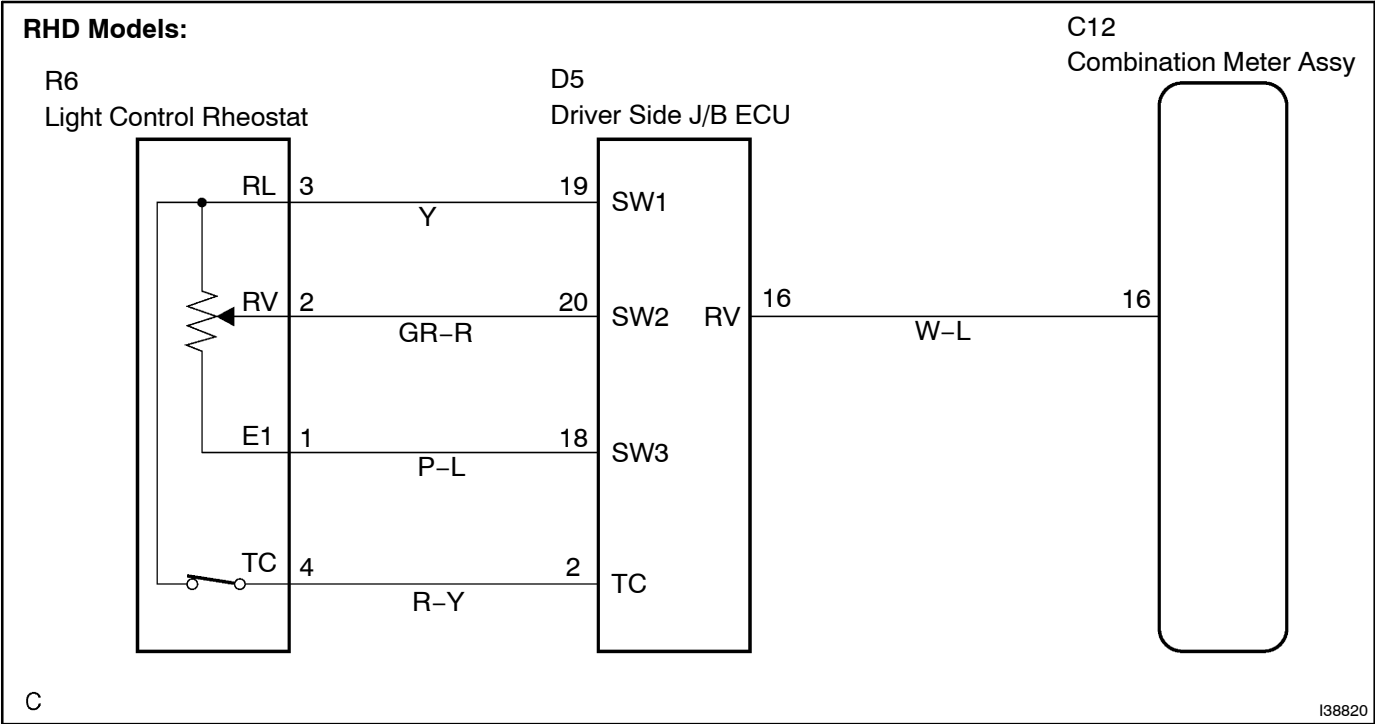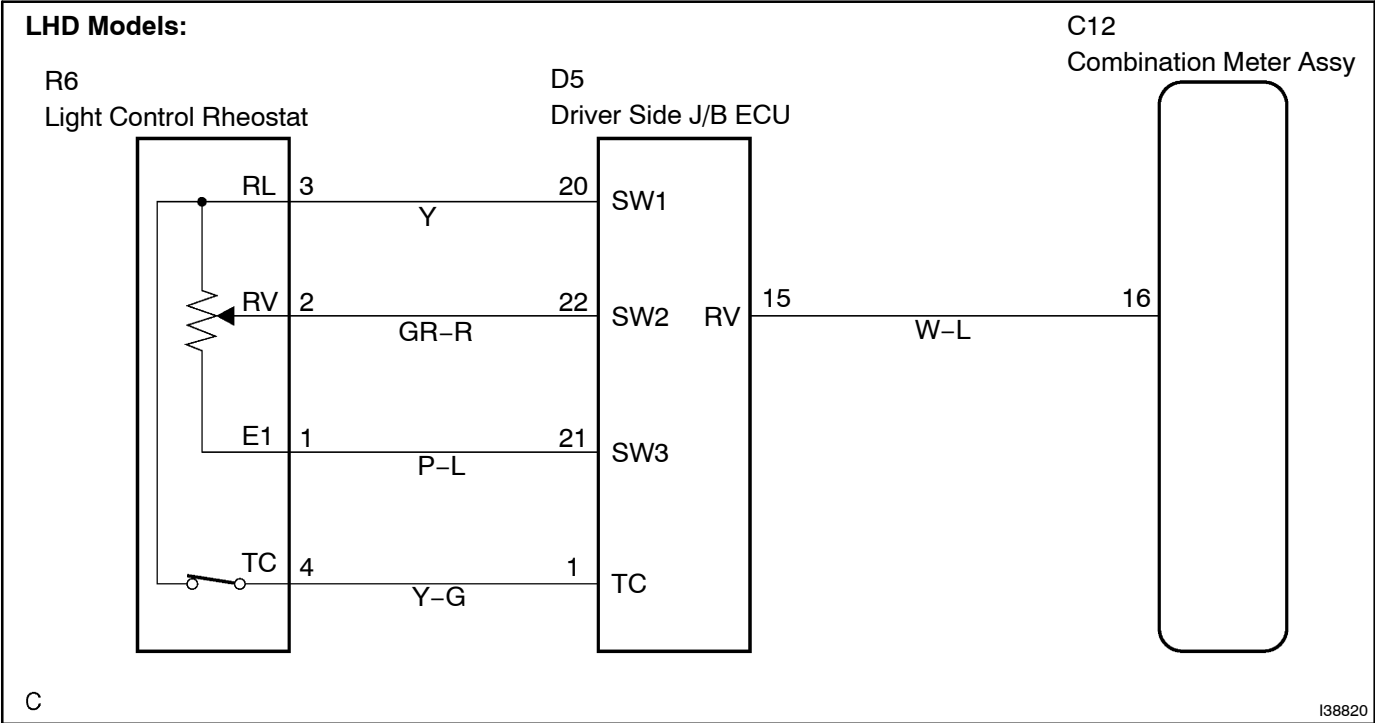
INSPECTION PROCEDURE

1	READ VALUE OF INTELLIGENT TESTER II(LIGHT RHEOSTAT SIGNAL)

(a) Operate the intelligent tester II according to the steps on the display and select the "DATA LIST".
METER:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Light Rheostat	Light control rheostat / Min.: 0, Max.: 255	Light control rheostat switch is Dark (0) → Bright (255)	–

OK:

Light control can be changed within the specified range by actual operation.

NG ▷ **Go to step 2**

OK ▽

REPLACE COMBINATION METER ASSY(SEE PAGE 71–21)

2	READ VALUE OF INTELLIGENT TESTER II(LIGHT RHEOSTAT SIGNAL)

(a) Operate the intelligent tester II according to the steps on the display and select the "DATA LIST".
BODY No.2:

Item	Measurement Item/ Range (Display)	Normal Condition	Diagnostic Note
Rheostat Vol	Light control rheostat / Min.: 0, Max.: 255	Light control rheostat switch is Dark (0) → Bright (255)	–

OK:

Light control can be changed within the specified range by actual operation.
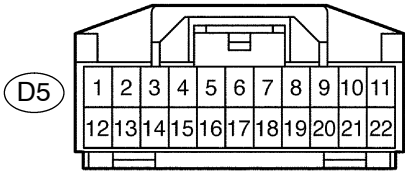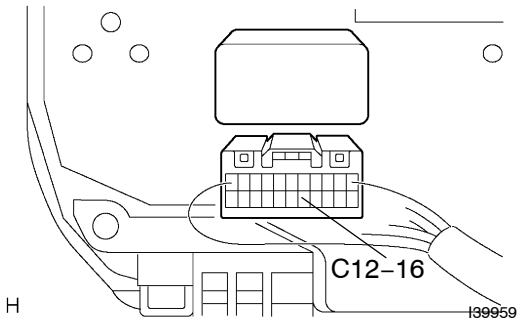
NG ▷ **Go to step 5**

OK ▽

3	CHECK HARNESS AND CONNECTOR(DRIVER SIDE JUNCTION BLOCK – COMBIATION METER ASSY)(SEE PAGE 01–34)

**Driver Side Junction Block
Wire Harness View:**

D5

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

**Combination Meter Assy
Wire Harness View:**

C12–16

H   I39959

(a) Disconnect the C12 and D5 connectors.

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

Standard:

Tester Connection	Condition	Specified Condition
C12–16 – D5–15 (16)	Always	Below 1 Ω
C12–16 – Body ground	Always	10 kΩ or higher

NG > REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

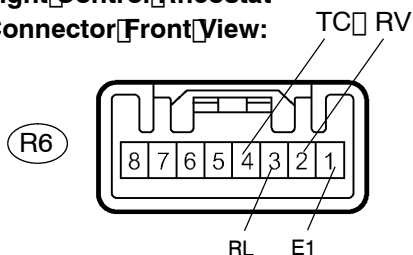| 4	REPLACE DRIVER SIDE JUNCTION BLOCK

OK:
Normal operation

NG > REPLACE COMBINATION METER ASSY (SEE PAGE 71–21)

OK

END

5	INSPECT LIGHT CONTROL RHEOSTAT

Light Control Rheostat Connector Front View:

(a) Disconnect the light control rheostat connector.

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

Standard:

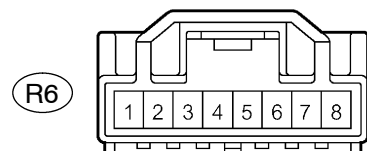| Terminal No	Condition	Specified condition
1 – 2	Rheostat knob turned fully clockwise	Approx. 0 kΩ
1 – 2	Rheostat knob turned fully counterclockwise	Approx. 10 ± 2 kΩ
1 – 3	Always	Approx. 10 ± 2 kΩ
4 – 1, 3	Rheostat knob turned fully counterclockwise	10 kΩ or higher
4 – 1, 3	Rheostat knob turned to fully clockwise	Below 1 Ω

NG ▷ REPLACE LIGHT CONTROL RHEOSTAT

OK ▽

6	CHECK HARNESS AND CONNECTOR(LIGHT CONTROL RHEOSTAT – DRIVER SIDE JUNCTION BLOCK)(SEE PAGE 01–34)

Driver Side Junction Block Wire Harness View:

Light Control Rheostat Wire Harness View:

(a) Disconnect the D5 and R6 connectors.

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

Standard:

Tester Connection	Condition	Specified Condition
D5–20 – R6–3	Always	Below 1 Ω
D5–22 – R6–2	Always	Below 1 Ω
D5–21 – R6–1	Always	Below 1 Ω
D5–1 – R6–4	Always	Below 1 Ω
R6–3 – Body ground	Always	10 kΩ or higher
R6–2 – Body ground	Always	10 kΩ or higher
R6–1 – Body ground	Always	10 kΩ or higher
R6–4 – Body ground	Always	10 kΩ or higher

NG ▷ REPAIR OR REPLACE HARNESS OR CONNECTOR

OK ▽

7	REPLACE DRIVER SIDE JUNCTION BLOCK

OK:
Normal operation

NG ▷ **REPLACE COMBINATION METER ASSY**
(SEE PAGE 71−21)

OK

END