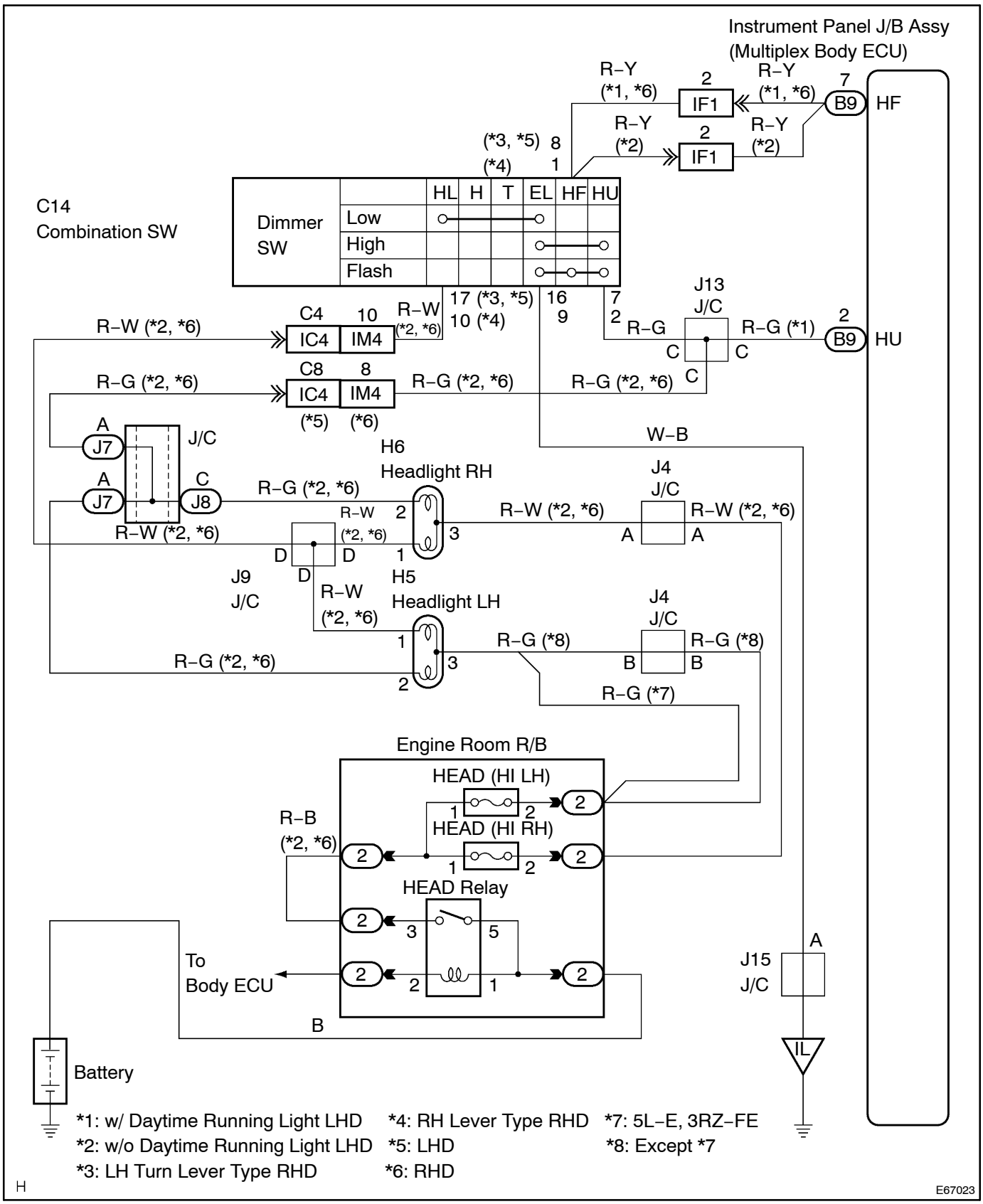
HEADLIGHT DIMMER SWITCH CIRCUIT

CIRCUIT DESCRIPTION

This circuit detects the state of the headlight dimmer switch and sends it to the Multiplex body ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Start the inspection from step 1 in the case of using the hand–held tester, and start from step 2 in the case of not using the hand–held tester.

1	READ VALUE OF HAND–HELD TESTER

(a) Connect the hand–held tester to DLC3.
(b) Turn the ignition switch to ON and push the hand–held tester main SW ON.
(c) Select the items below in the DATA LIST, and read the displays on the hand–held tester.

BGW:

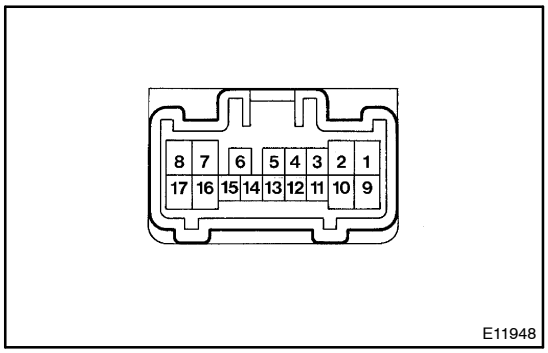
Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
DIMMER SW*1	Headlight dimmer SW signal/ON or OFF	ON: Headlight dimmer switch is in HI or FLASH position OFF: Headlight dimmer switch is in LO position	–
HIGH FLASHER SW	Headlight dimmer SW signal/ON or OFF	ON: Headlight dimmer switch is in FLASH position OFF: Headlight dimmer switch is in except FLASH position	–

HINT:
*1: Europe models only

OK → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1346)**

NG

2	INSPECT HEADLAMP DIMMER SWITCH ASSY



(a) Inspect headlight dimmer switch continuity.
(1) Check that there is continuity between terminals at each switch position as shown in the chart.

Standard:
LHD STEERING POSITION TYPE:

Switch operation	Tester connection	Specified condition
FLASH	7 – 8 – 16	Continuity
LOW BEAM	16 – 17	Continuity
HI BEAM	7 – 16	Continuity

Standard:
RHD STEERING POSITION TYPE:

Switch operation	Tester connection	Specified condition
FLASH	2 – 9 – 1	Continuity
LOW BEAM	9 – 10	Continuity
HI BEAM	2 – 9	Continuity

NG → **REPLACE HEADLAMP DIMMER SWITCH ASSY**

OK

3	**INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY(HU, HF)**

(a) Measure voltage between terminal HF of the instrument panel J/B and body ground.

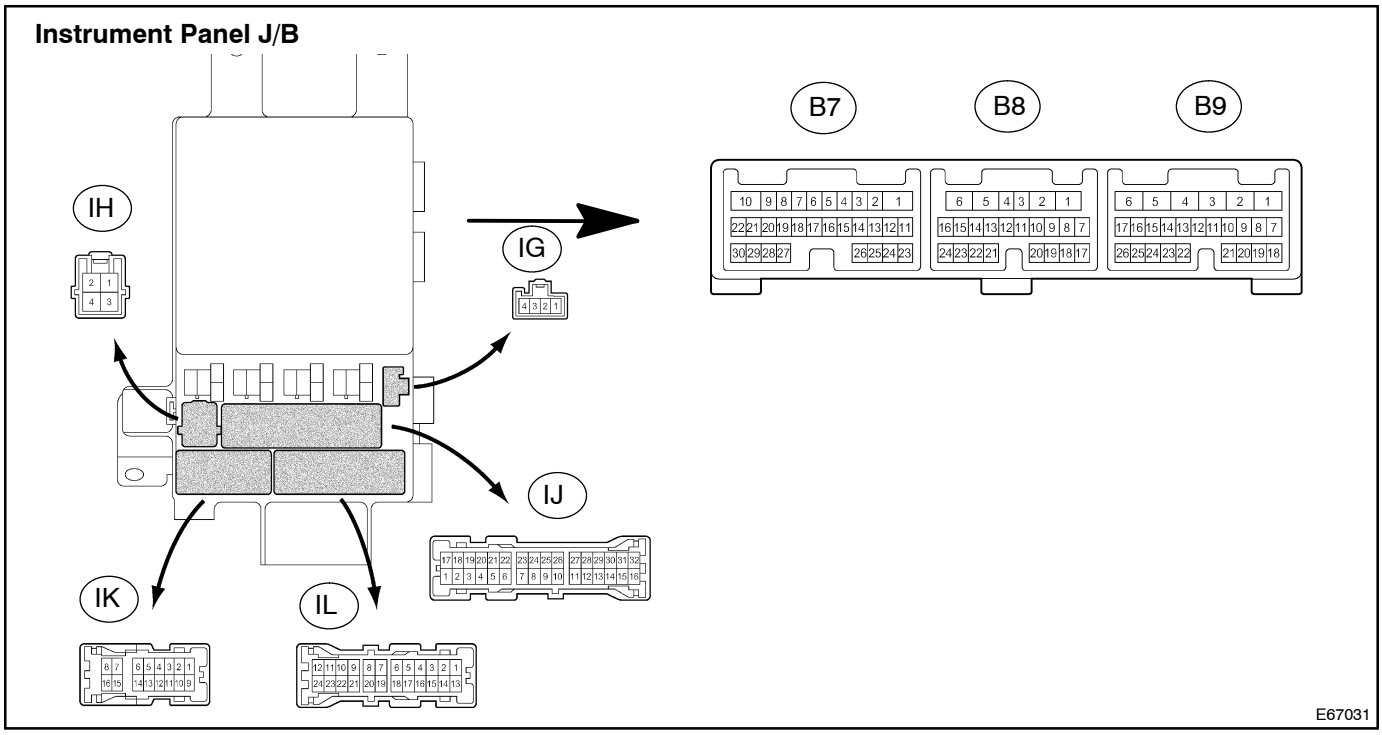
(b) Measure voltage between terminal HU of the instrument panel J/B and body ground. (w/DRL)

Standard:

Terminal No. (Symbols)	Condition	Specified condition
B9–7 ⇔ body ground (HF ⇔ body ground)	Turn IG switch ON	10–14 V
B9–2 (*1) ⇔ body ground (HU ⇔ body ground)	Turn IG switch ON	10–14 V

HINT:

(*1): w/DRL only



NG → **CHECK AND REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSY**

OK

4	INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY(HU, HF)

(a) Disconnect the connector from the instrument panel J/B.
(b) Check that there is continuity between terminal HF of the instrument panel J/B and body ground with wire harness side.
(c) Check that there is continuity between terminal HU of the instrument panel J/B and body ground with wire harness side. (w/ DRL)

Standard:

Terminal No. (Symbols)	Condition	Specified condition
B9–7 ⇔ body ground (HF ⇔ body ground)	Turn headlight dimmer switch LO → FLASH	No continuity → continuity
B9–2 (*1) ⇔ body ground (HU ⇔ body ground)	Turn headlight dimmer switch LO → HI or FLASH	No continuity → continuity

HINT:
(*1): w/DRL only

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE
(SEE PAGE 05–1346)