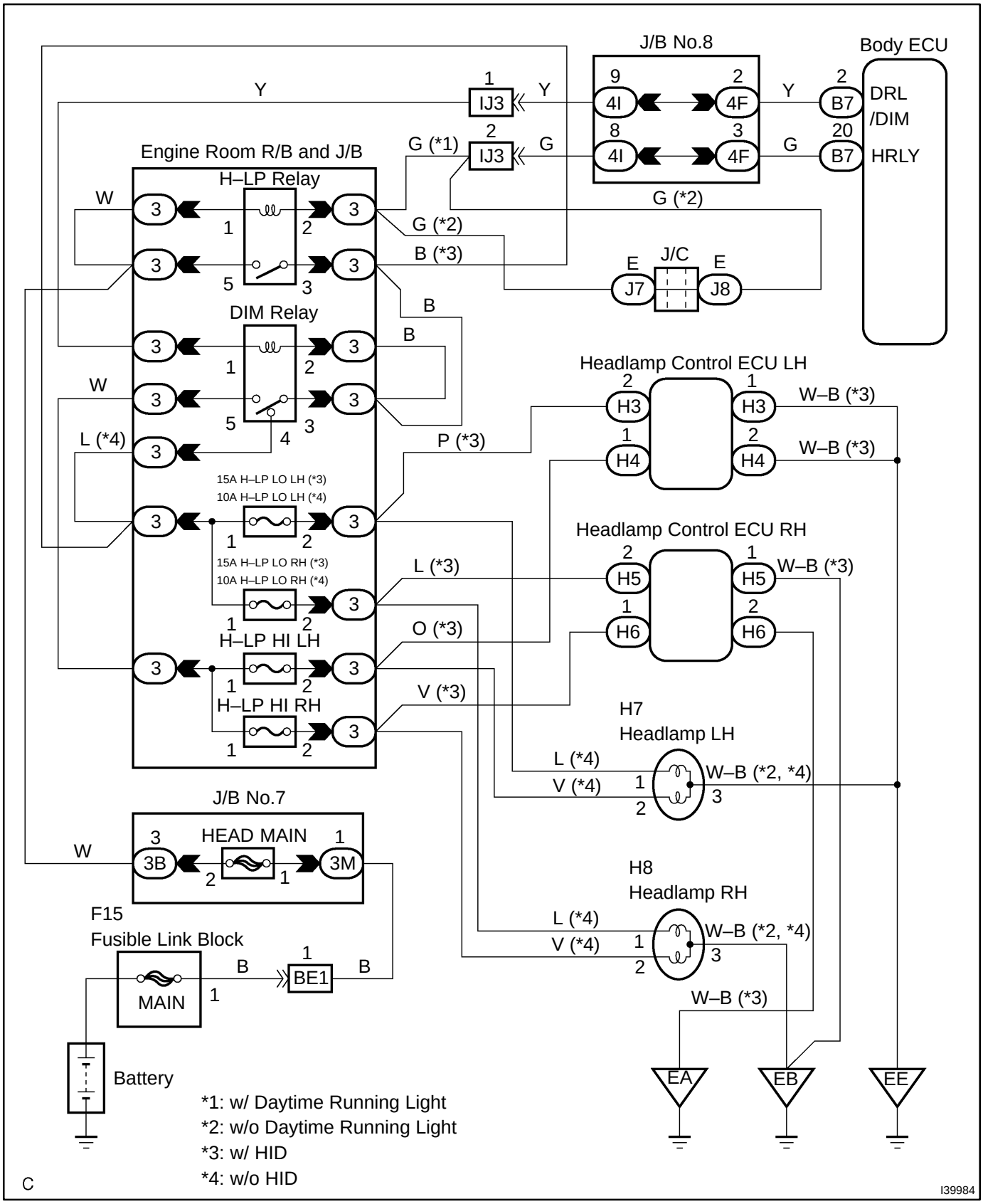
HEADLIGHT RELAY CIRCUIT

CIRCUIT DESCRIPTION

The multiplex network body ECU controls the HEAD relay when signals are received from the headlamp dimmer switch assy.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTIVE TEST USING HAND–HELD TESTER

(a) Connect the hand–held tester to the DLC3.
(b) Push the power switch ON (IG) and turn the hand–held tester main switch on.
(c) Select the item below in the ACTIVE TEST and then check that the head relay operates.

B No.1/GW (Multiplex Network Body ECU):

Item	Test Details	Diagnostic Note
HEAD LIGHT	Turn headlamp relay ON/OFF	–
HEAD LIGHT (HI)	Turn headlamp dimmer relay (headlamp dimmer switch in HI position) ON/OFF	–

OK: Headlamp is comes on.

NG → **Go to step 2**

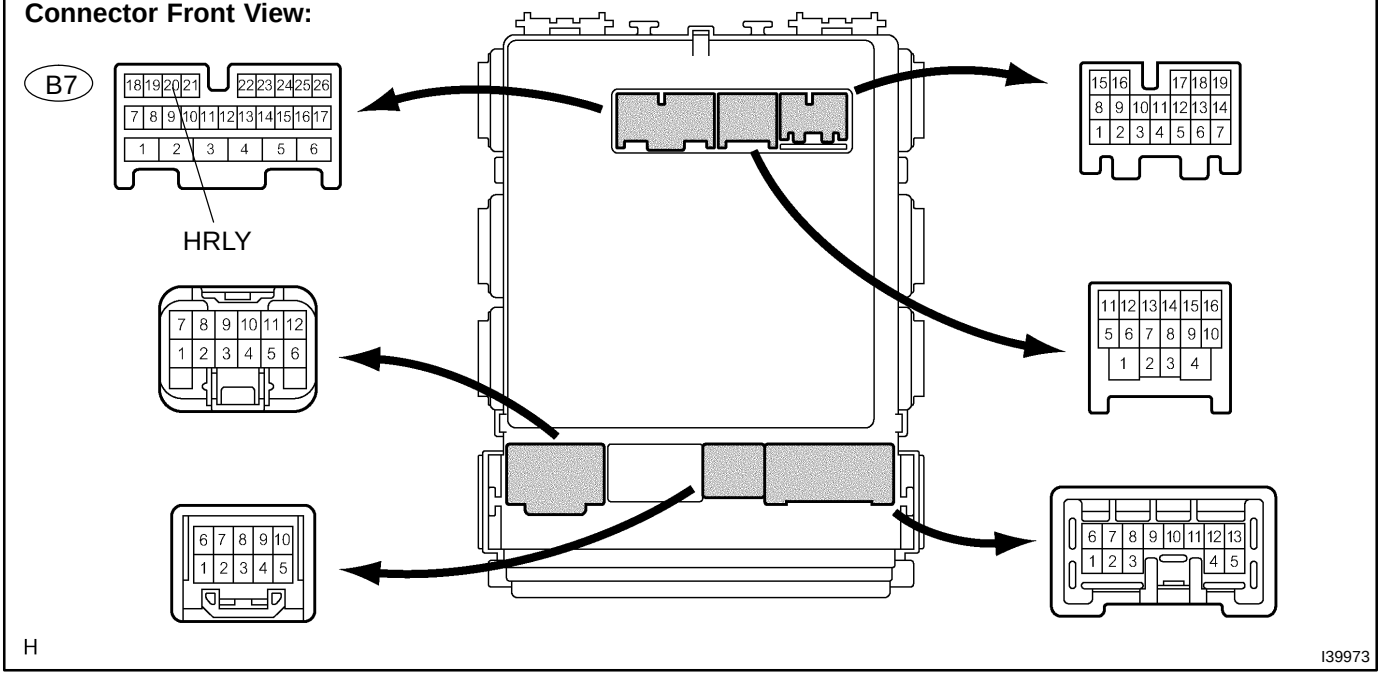
OK

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

2	INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY

(a) Disconnect the B7 connector from the instrument panel junction block assy.
(b) Using a service wire, connect B7–20 of the wire harness side and body ground.
OK: Headlamp (Low beam) comes on

Instrument Panel Junction Block
Connector Front View:



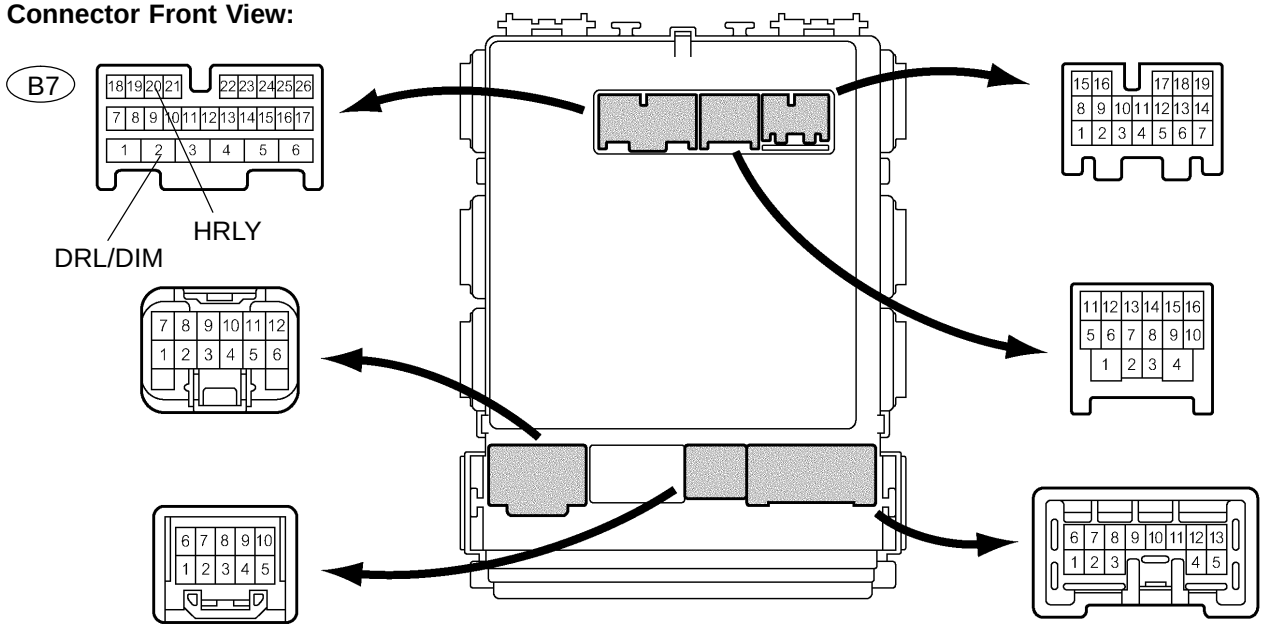
NG → **Go to step 4**

OK

3	INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY

(a) Using a service wire, connect B7–20 of the wire harness side and body ground.
(b) Using a service wire, connect B7–2 of the wire harness side and body ground.
OK: Headlamp (High beam) comes on

Instrument Panel Junction Block
Connector Front View:



NG → **Go to step 5**

OK

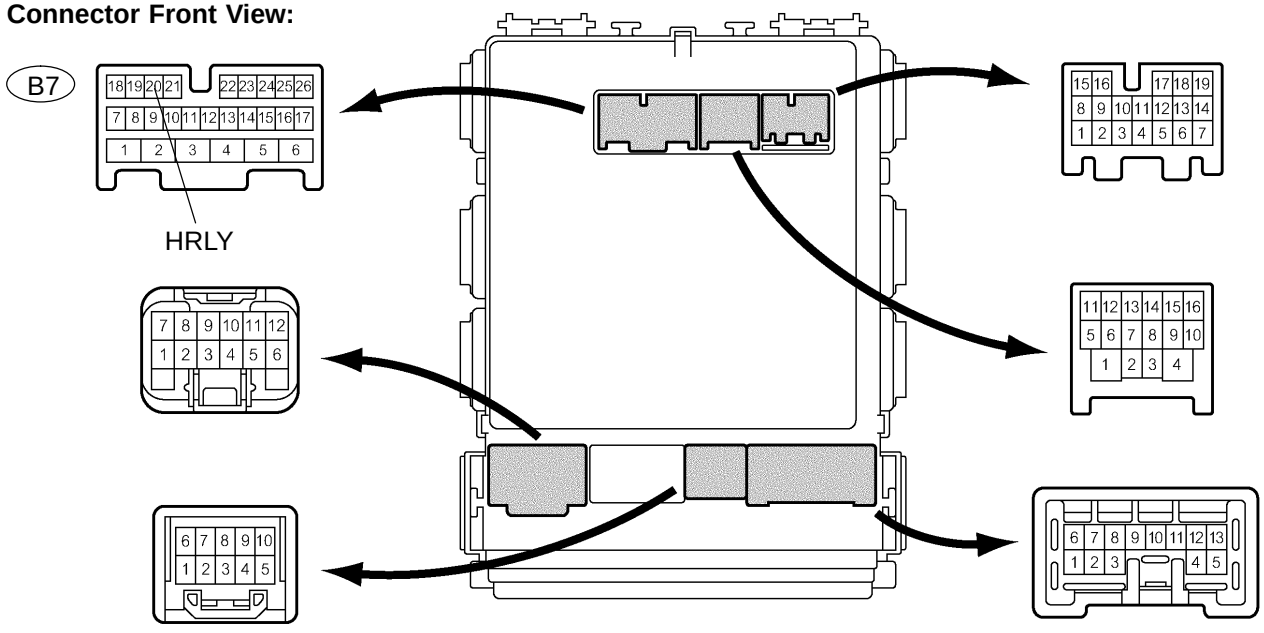
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–1677)

4	CHECK HARNESS AND CONNECTOR(HEAD SIGNAL CIRCUIT)

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

Tester connection	Condition	Specified condition
B7–20 – Body ground	Always	10 to 14 V

Instrument Panel Junction Block
Connector Front View:



NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (INSTRUMENT PANEL JUNCTION BLOCK ASSY – BATTERY)**

OK

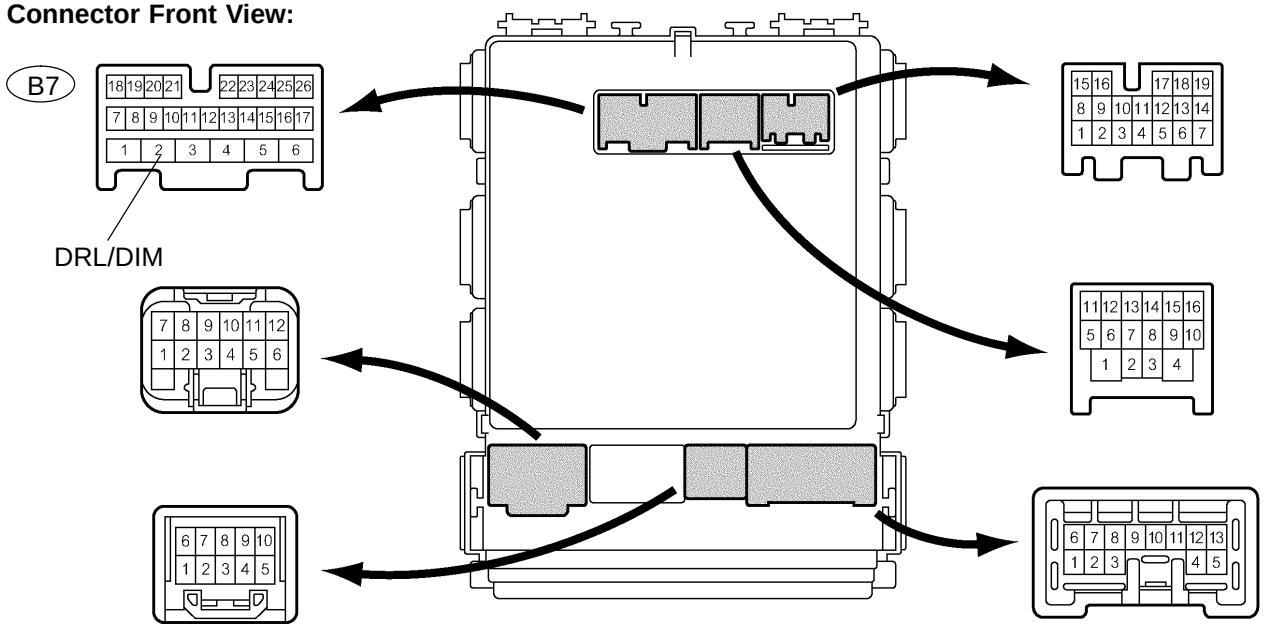
REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF HEADLIGHT (LOW BEAM) CIRCUIT)

5	CHECK HARNESS AND CONNECTOR(DRL/DIM SIGNAL CIRCUIT)

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

Tester connection	Condition	Specified condition
B7–2 – Body ground	Connect B5–20 and Body ground	10 to 14 V

Instrument Panel Junction Block
Connector Front View:



NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (INSTRUMENT PANEL JUNCTION BLOCK ASSY – ENGINE ROOM R/B AND J/B)**

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF HEADLIGHT (HIGH BEAM) CIRCUIT)