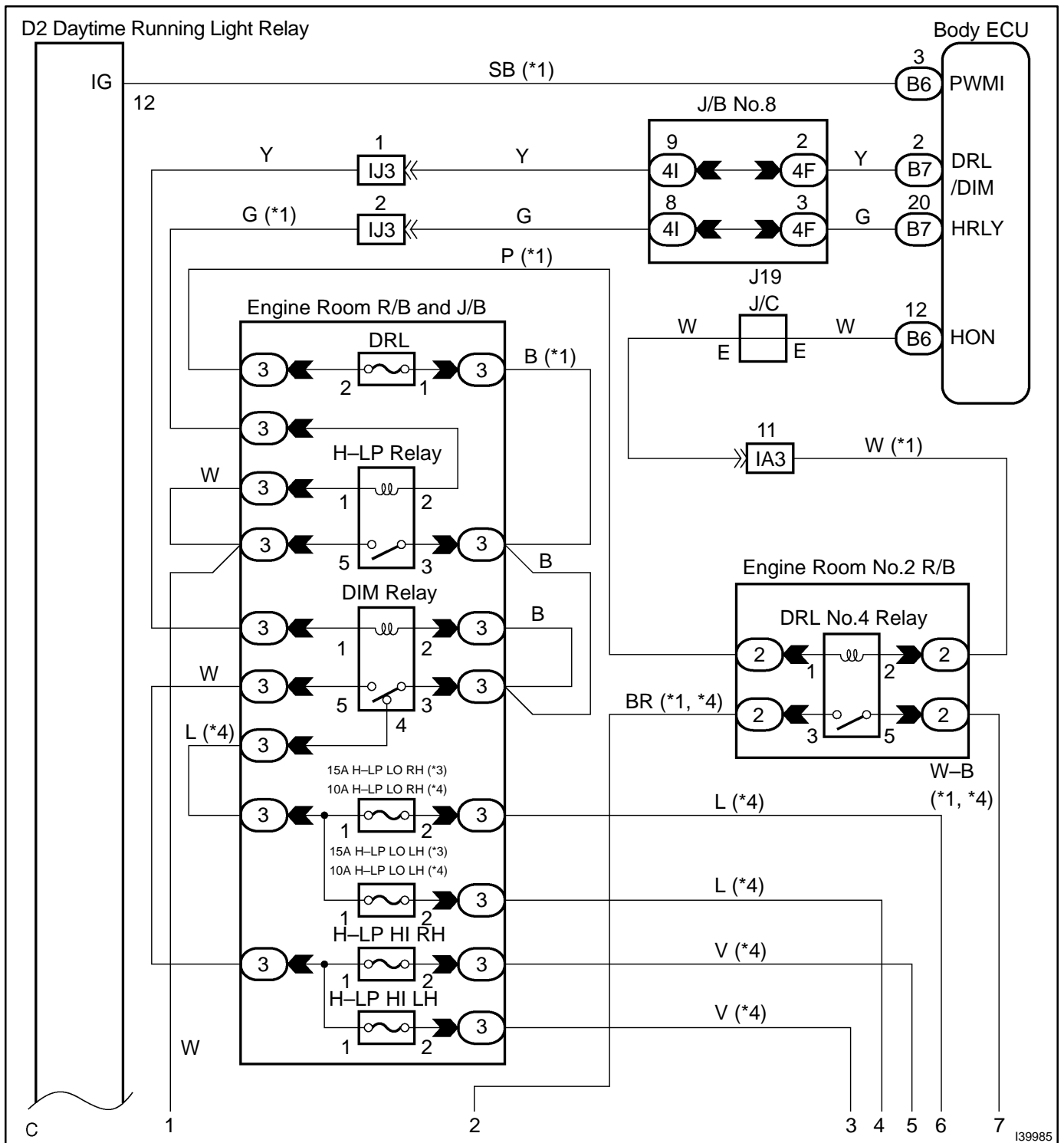


DRL RELAY CIRCUIT

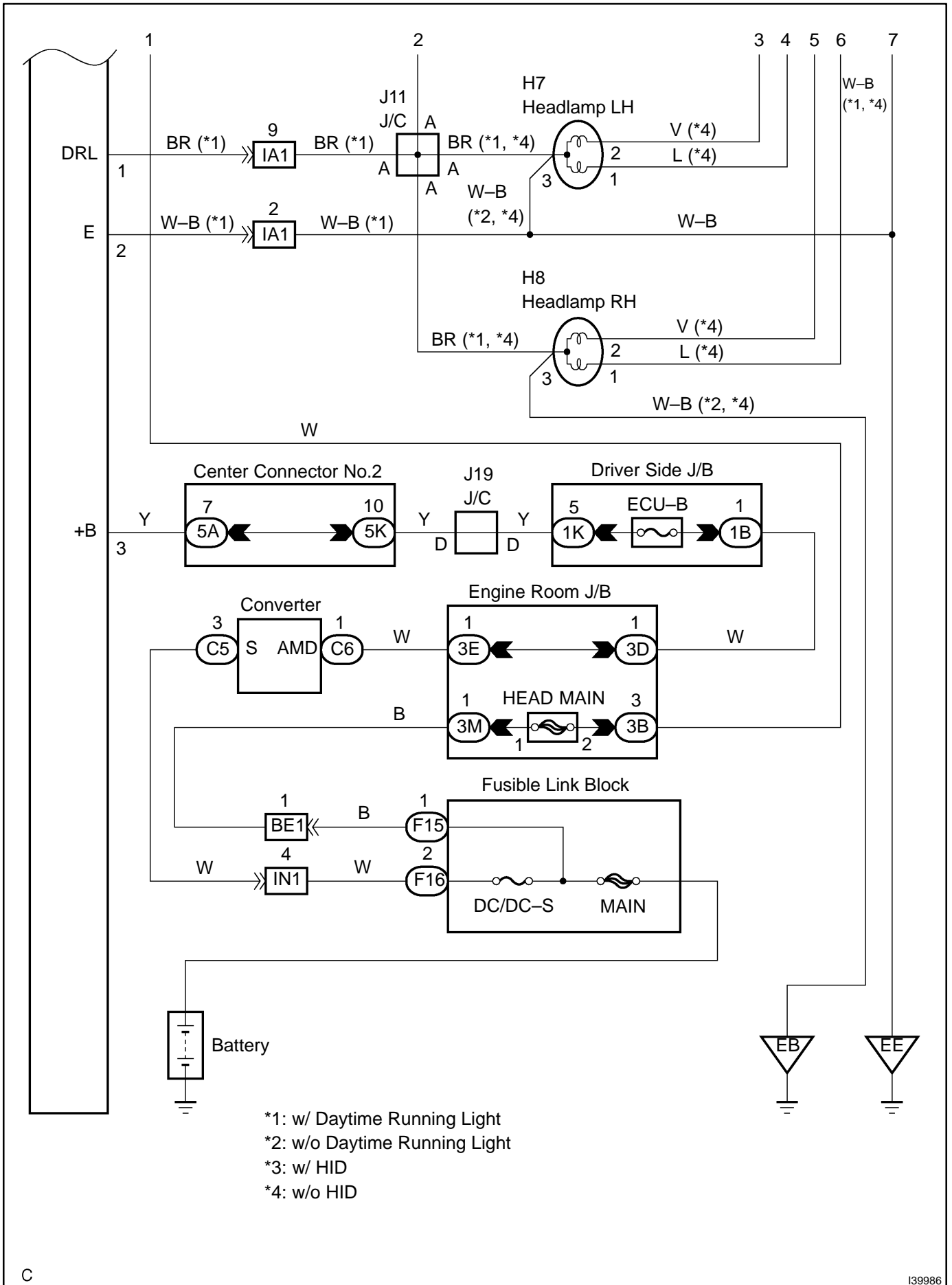
CIRCUIT DESCRIPTION

The multiplex network body ECU controls the DRL No.4 relay. The DRL No.4 relay connects the daytime running light relay and the headlamp during DRL operation. The daytime running light relay controls the illuminance of the headlamp accordingly.

WIRING DIAGRAM



DIAGNOSTICS - LIGHTING SYSTEM



C

I39986

INSPECTION PROCEDURE

HINT:

Check if the headlamp (low beam and high beam) is normal before performing the following 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 press the hand-held tester main switch on.
- (c) Select the item below in the ACTIVE TEST and then check that the tail relay operates.

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

Item	Test Details	Diagnostic Note
DRL RELAY	(Test Details) Turn daytime running light relay ON/OFF (Vehicle Condition) Power switch ON (IG), engine is stopped and light control SW is in OFF	-

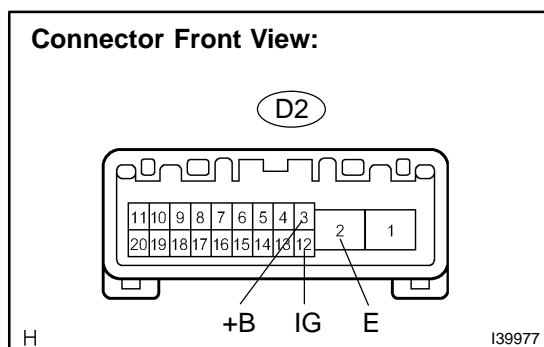
OK: Headlamp (High beam) comes on.

NG → Go to step 2

OK

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

2 | INSPECT RUNNING LIGHT RELAY ASSY



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

Standard:

Tester connection	Condition	Specified condition
D2-3 - D2-2	Always	10 to 14 V
D2-12 - D2-2	Engine is running and parking brake is released	10 to 14 V

NG → Go to step 4

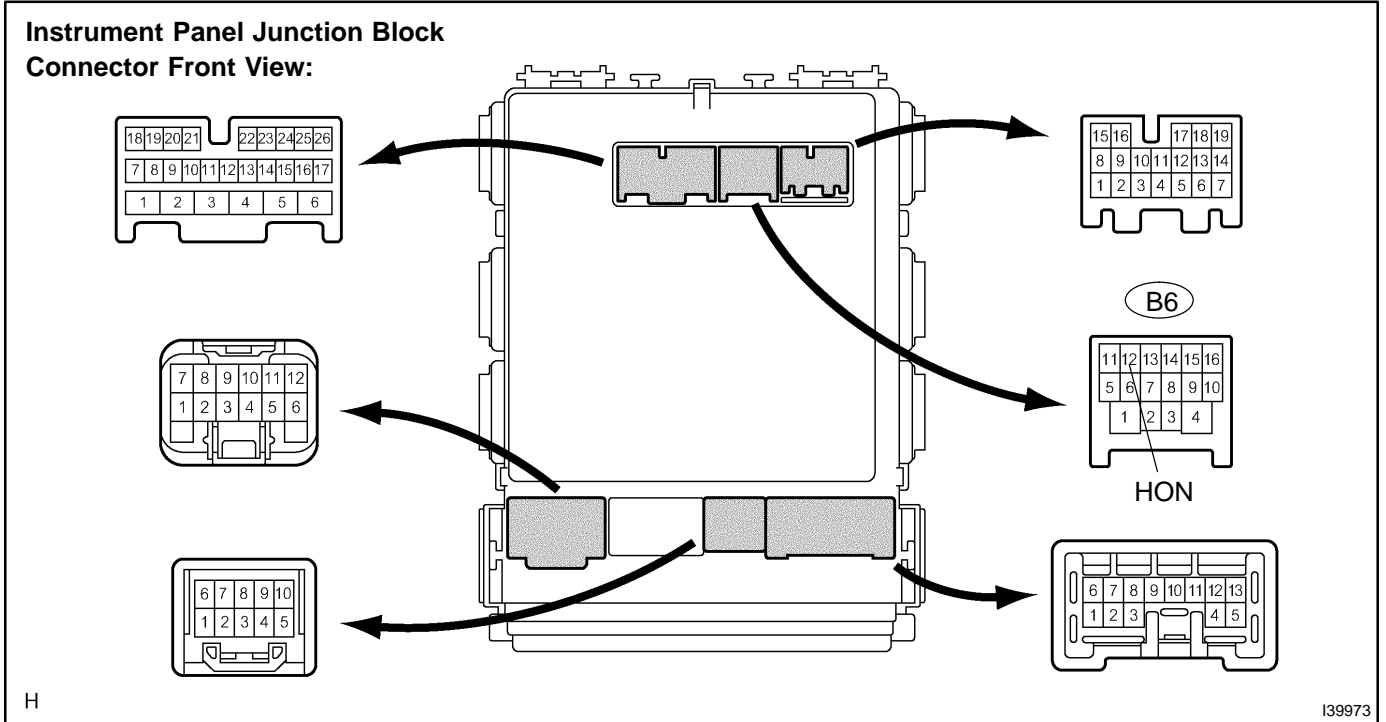
OK

3 INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY

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

Standard:

Tester connection	Condition	Specified condition
B6-12 - Body ground	Light control switch in HEAD	Below 1 V
B6-12 - Body ground	Engine is running and parking brake is released	10 to 14 V

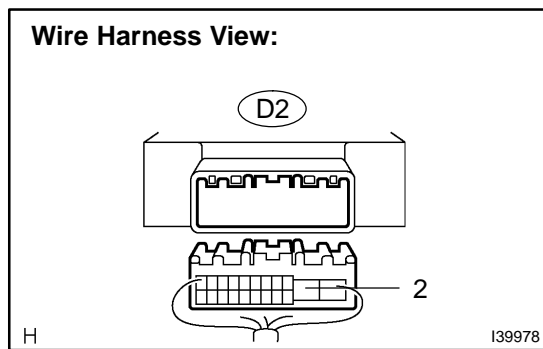


NG REPAIR OR REPLACE HARNESS OR CONNECTOR (BODY ECU - ENGINE ROOM R/B AND J/B)

OK

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

4 CHECK HARNESS AND CONNECTOR(GROUND CIRCUIT)



- (a) Disconnect the connector from the daytime running light relay.
- (b) Measure the resistance according to the value(s) in the table below.

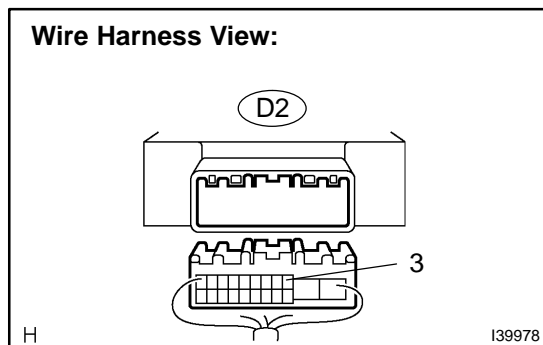
Standard:

Tester connection	Condition	Specified condition
D2-2 - Body ground	Always	Below 1 Ω

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

OK

5 CHECK HARNESS AND CONNECTOR(POWER SOURCE CIRCUIT)



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

Standard:

Tester connection	Condition	Specified condition
D2-3 - Body ground	Always	10 to 14 V

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

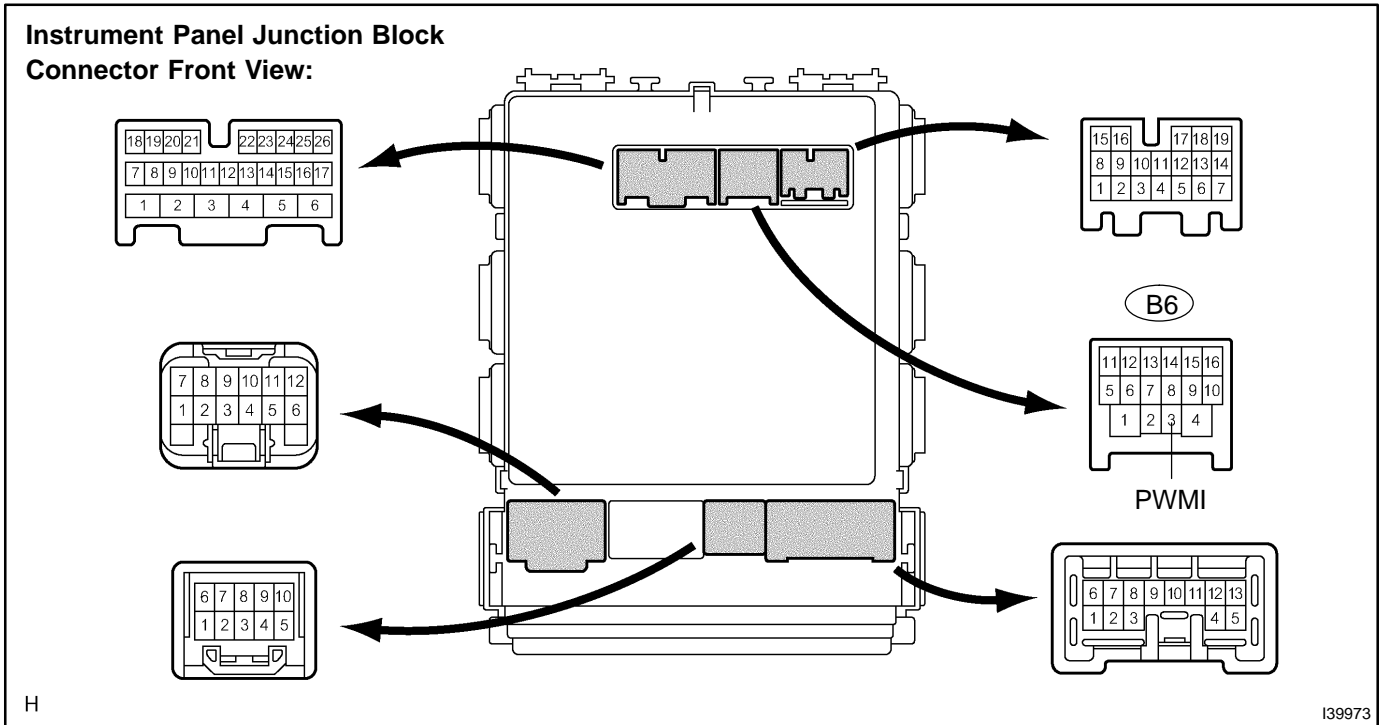
OK

6 INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSY

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

Standard:

Tester connection	Condition	Specified condition
B6-3 - Body ground	Light control switch in HEAD	Below 1 V
B6-3 - Body ground	Engine running and parking brake is released	10 to 14 V



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

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (INSTRUMENT PANEL JUNCTION BLOCK - DAYTIME RUNNING LIGHT RELAY)