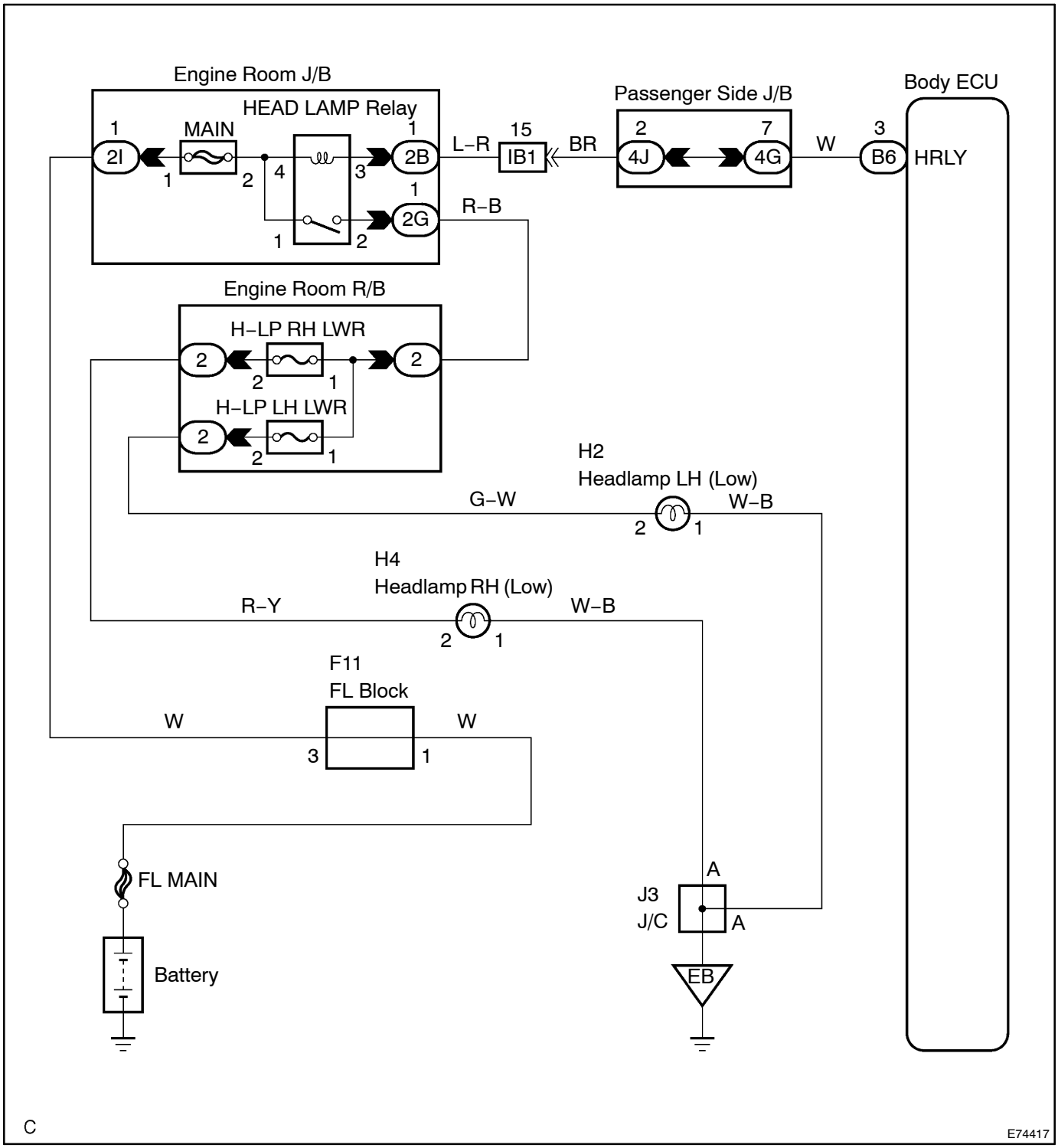
HEADLIGHT RELAY CIRCUIT

CIRCUIT DESCRIPTION

The multiplex network body ECU controls the HEAD relay when a signal is received from the headlamp dimmer switch assy.

WIRING DIAGRAM



INSPECTION PROCEDURE

1	PERFORM ACTIVE TEST ON INTELLIGENT TESTER II

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch to the ON position and turn the intelligent tester II main switch on.
(c) Select the item below in the ACTIVE TEST and then check the relay operation.

BODY NO.1 (MULTIPLEX NETWORK BODY ECU):

Item	Test Details	Diagnostic Note
Headlight Relay	Headlight relay ON/OFF	–

OK: Headlamp comes on.

NG → **Go to step 2**

OK

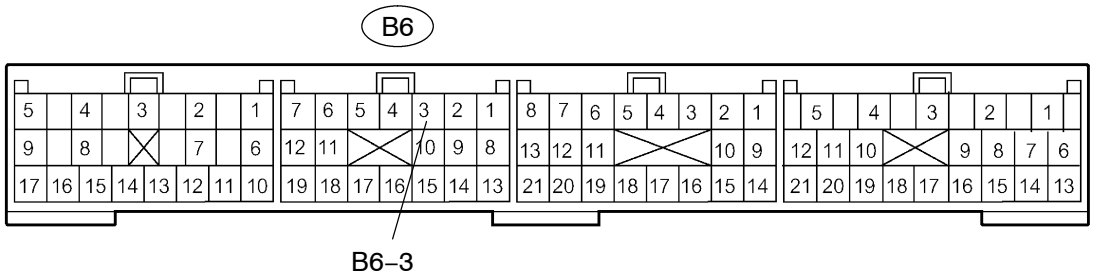
PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–751)

2	INSPECT MULTIPLEX NETWORK BODY ECU

(a) Disconnect the B6 connector from the multiplex network body ECU.
(b) Using a service wire, connect B6–3 of the wire harness side and body ground.

OK: Headlamp comes on.

Multiplex Network Body ECU
Connector Front View:



H

E74263

NG → **Go to step 3**

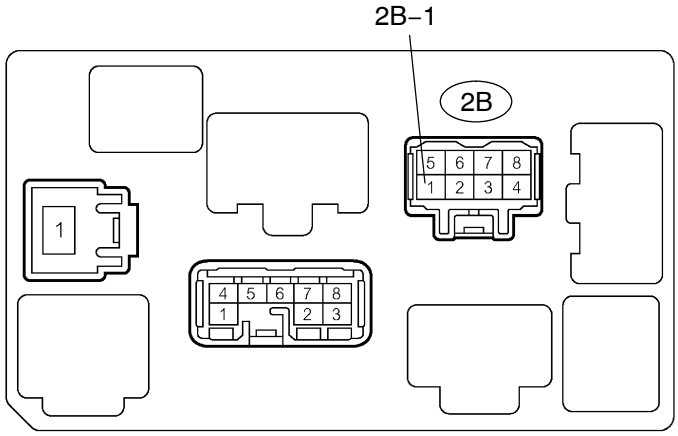
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–751)

3	INSPECT ENGINE ROOM J/B

(a) Disconnect the 2B connector from the engine room J/B.
(b) Using a service wire, connect 2B–1 of the engine room J/B side and body ground.
OK: Headlamp comes on.

Engine Room J/B
Connector Front View:



H

E72974

NG → **Go to step 4**

OK

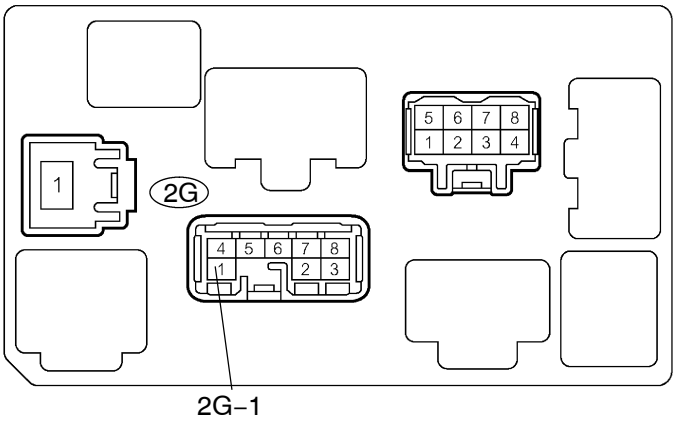
REPAIR OR REPLACE HARNESS OR CONNECTOR (ENGINE ROOM J/B – MULTIPLEX NETWORK BODY ECU)

4	INSPECT ENGINE ROOM J/B

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

Tester connection	Condition	Specified condition
2G–1 – Body ground	Connect 2B–1 and body ground	10 to 14 V

Engine Room J/B
Connector Front View:



H

E72974

NG → **Go to step 5**

OK

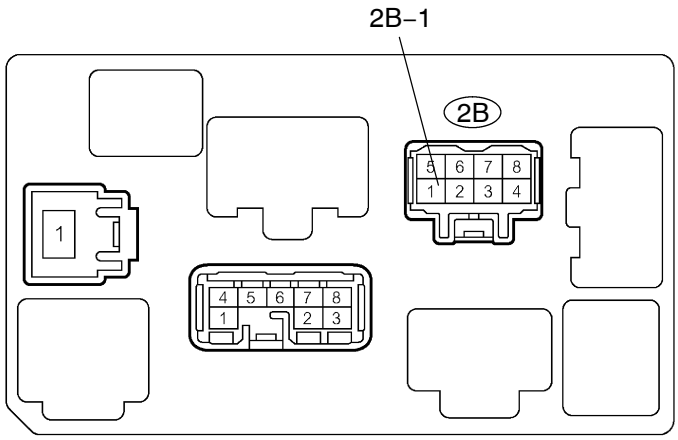
REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH HEADLAMP CIRCUIT)

5	INSPECT ENGINE ROOM J/B

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

Tester connection	Condition	Specified condition
2B–1 – Body ground	Always	10 to 14 V

Engine Room J/B
Connector Front View:



H

E72974

NG → **Go to step 6**

OK

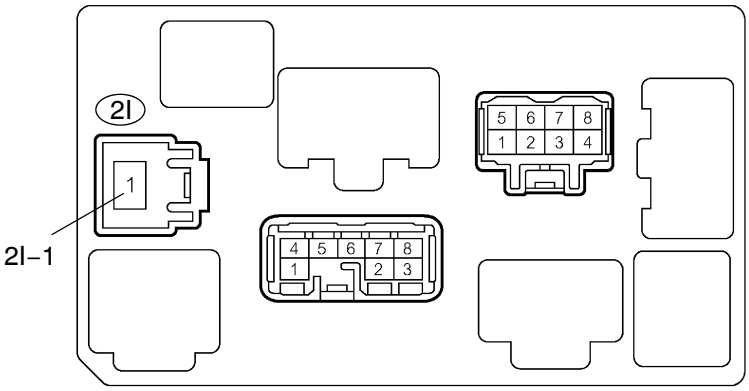
REPLACE ENGINE ROOM J/B

6	CHECK HARNESS AND CONNECTOR(POWER SOURCE CIRCUIT)

(a) Disconnect the 2I connector from the engine room J/B.
(b) Measure the voltage according to the value(s) in the table below.
Standard:

Tester connection	Condition	Specified condition
2I–1 – Body ground	Always	10 to 14 V

Engine Room J/B
Connector Front View:



H

E72974

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

OK

REPLACE ENGINE ROOM J/B