

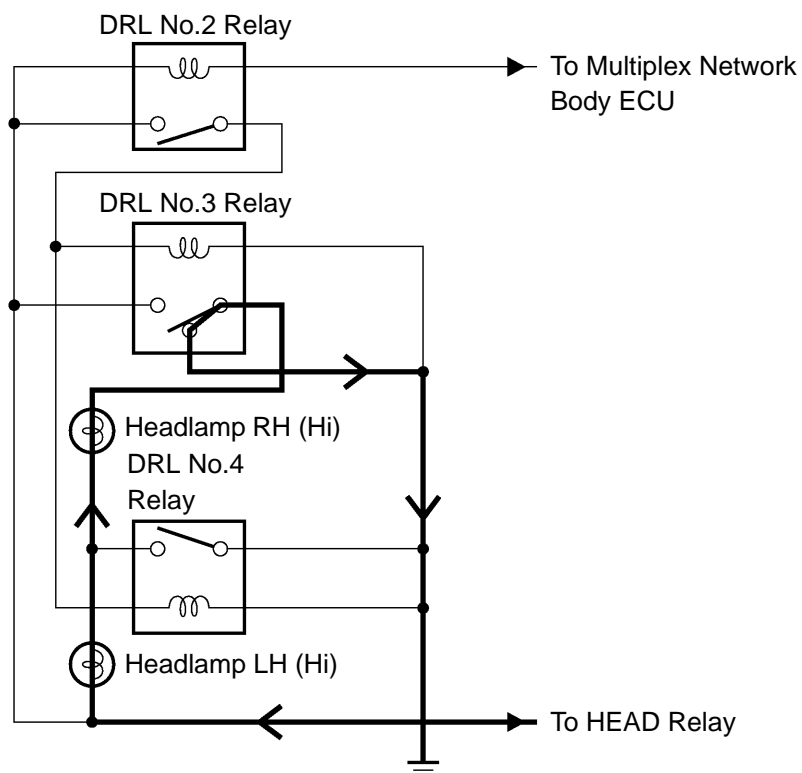
## DRL RELAY CIRCUIT

### CIRCUIT DESCRIPTION

The multiplex network body ECU controls DRL No.2, No.3 and No.4 relays.

The headlamp (High) is connected in serial when the daytime running light system operates.

**When Daytime Running Light System is Operated:**

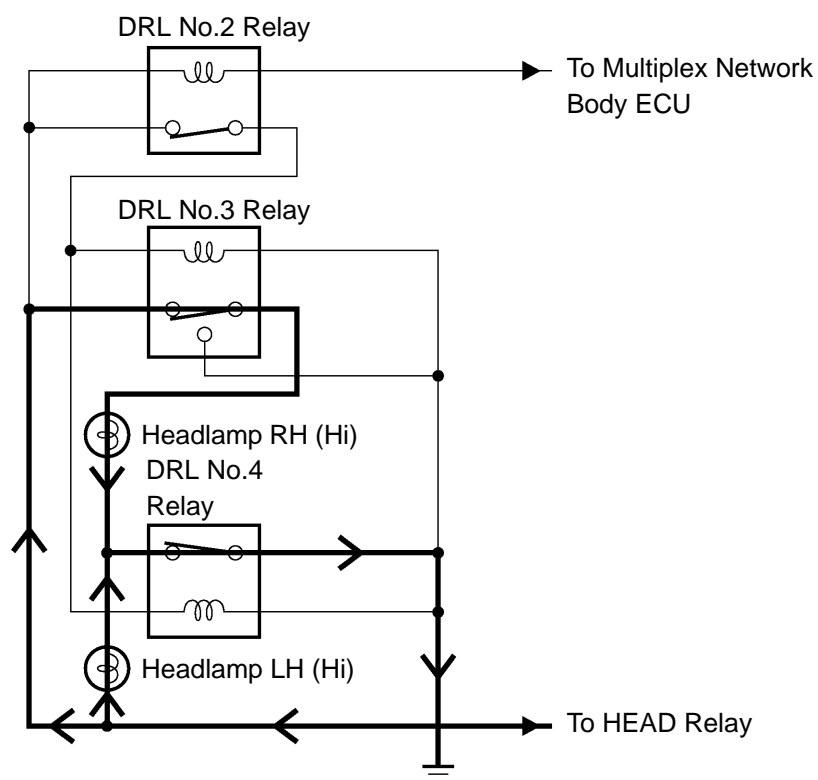


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The headlamp (High) is connected in parallel when the HI BEAM or FLASH operates.

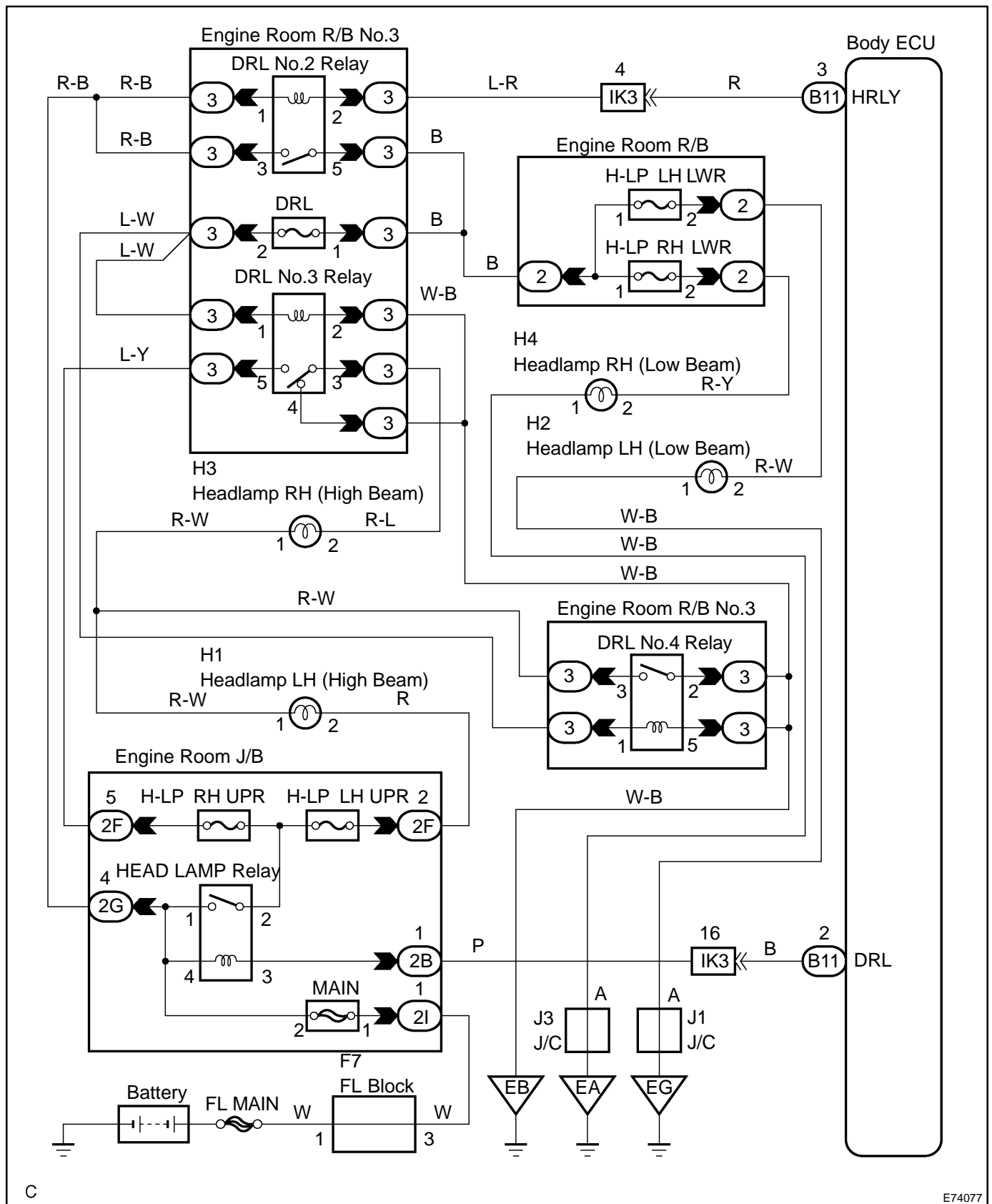
**When HI Beam or Flash is Operated:**



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## WIRING DIAGRAM



E74077

## INSPECTION PROCEDURE

### 1 PERFORM ACTIVE TEST USING HAND-HELD TESTER

- Connect the hand-held tester to the DLC3.
- Turn the ignition switch to the ON position and turn the hand-held tester main switch on.
- 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
HEAD LIGHT	Headlamp relay ON/OFF	-

**OK: Headlamp (low) comes on.**

#### BODY NO.1 (MULTIPLEX NETWORK BODY ECU):

Item	Test Details	Diagnostic Note
DIMMER SIG	DRL No.2 relay ON/OFF	-

**OK: Headlamp (high) comes on.**

**NG**

**Go to step 2**

**OK**

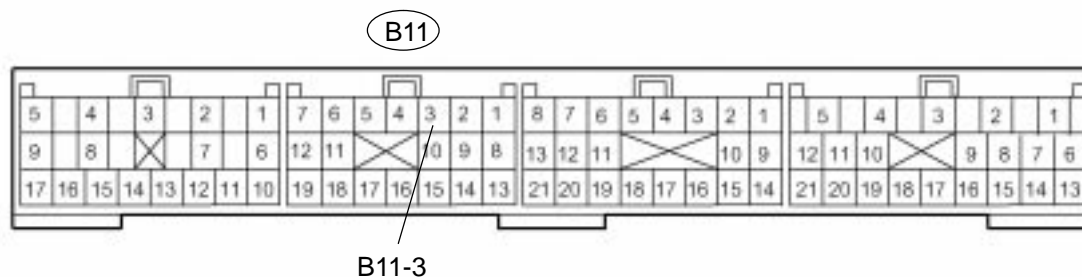
**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE  
(SEE PAGE 05-1538 )**

### 2 INSPECT MULTIPLEX NETWORK BODY ECU

- Disconnect the B11 connector from the multiplex network body ECU.
- Using a service wire, connect B11-3 of the wire harness side and body ground.

**OK: Headlamp (low) comes on.**

**Multiplex Network Body ECU  
Connector Front View:**



H

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**NG**

**Go to step 5**

**OK**

3

INSPECT MULTIPLEX NETWORK BODY ECU

- (a) Using a service wire, connect B11-2 of the wire harness side and body ground.  
**OK: Headlamp (high) comes on (decrease mode).**

Multiplex Network Body ECU  
Connector Front View:

NG

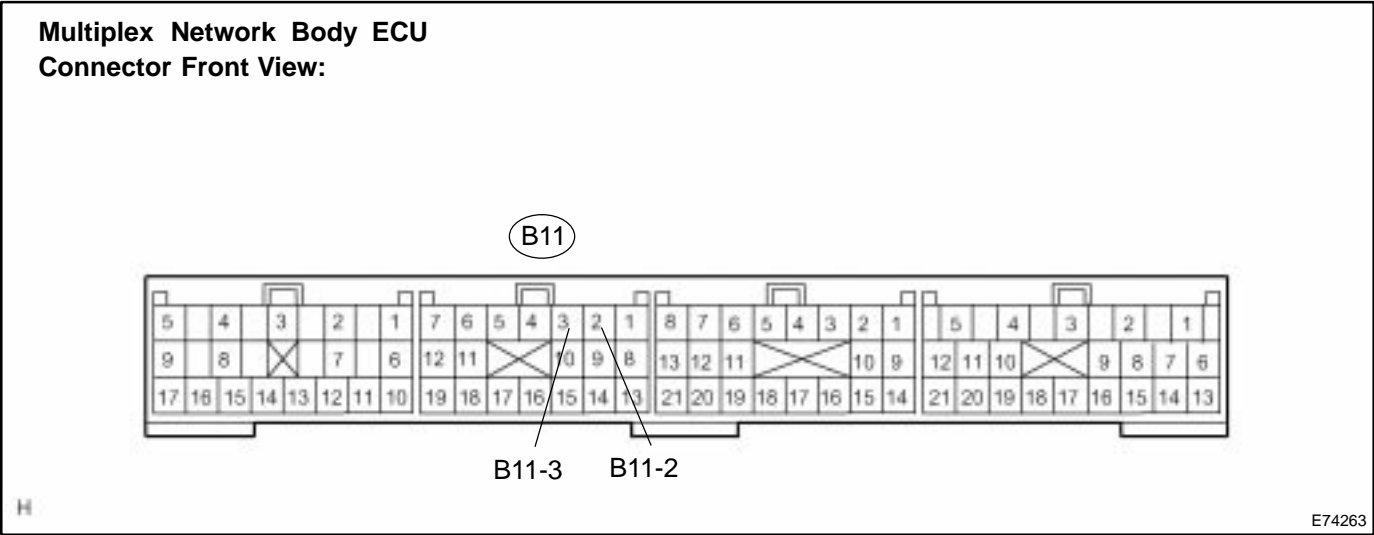
Go to step 7

OK

4

INSPECT MULTIPLEX NETWORK BODY ECU

- (a) Using a service wire, connect B11-3 of the wire harness side and body ground.
- (b) Using a service wire, connect B11-2 of the wire harness side and body ground.
- OK: Headlamp (high) comes on.



NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE  
(SEE PAGE 05-1538 )

5

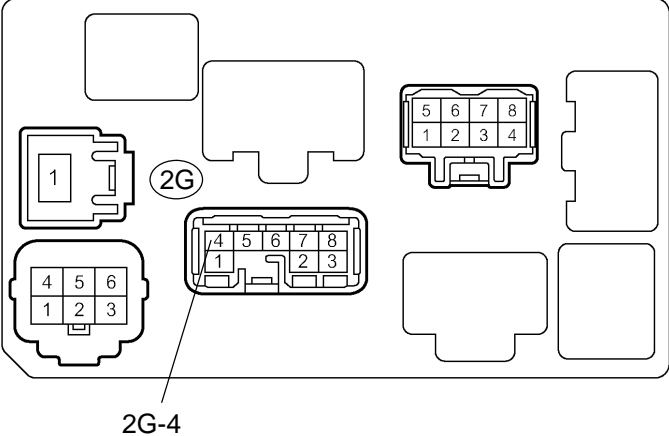
INSPECT ENGINE ROOM J/B

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

Standard:

Tester connection	Condition	Specified condition
2G-4 - Body ground	Always	10 to 14 V

Engine Room J/B  
Connector Front View:



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Go to step 6

OK

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

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

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

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REPAIR OR CONNECTOR	REPLACE	HARNESS	OR
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REPLACE ENGINE ROOM J/B

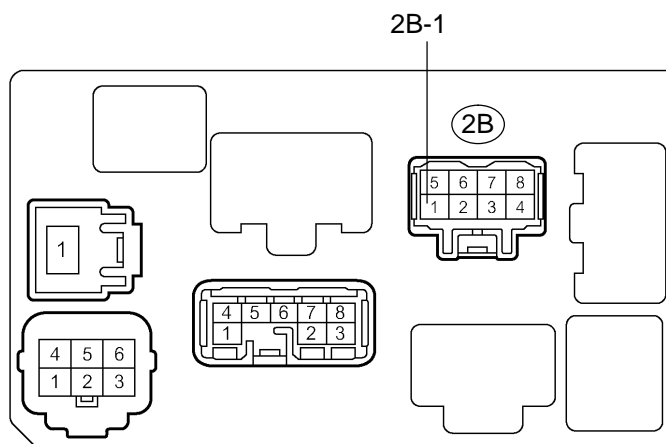


**7 INSPECT ENGINE ROOM J/B**

- (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 (high) comes on (decrease mode).**

**Engine Room J/B  
Connector Front View:**



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**NG****Go to step 8****OK**

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

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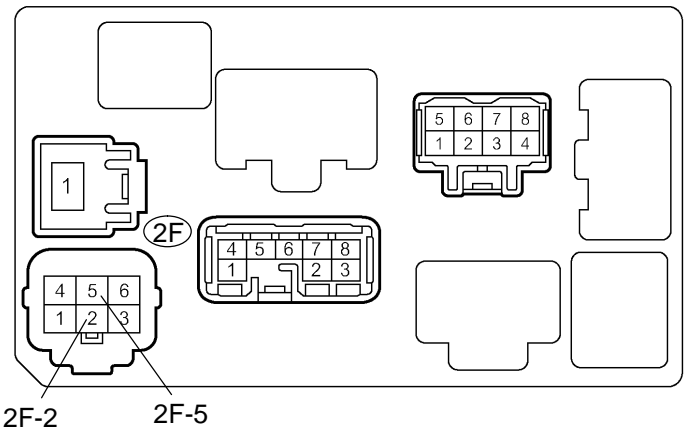
INSPECT ENGINE ROOM J/B

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

**Standard:**

Tester connection	Condition	Specified condition
2F-2 - Body ground	Connect 2B-1 and body ground	10 to 14 V
2F-5 - Body ground	Connect 2B-1 and body ground	10 to 14 V

Engine Room J/B  
Connector Front View:



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Go to step 9

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF HEADLAMP CIRCUIT)

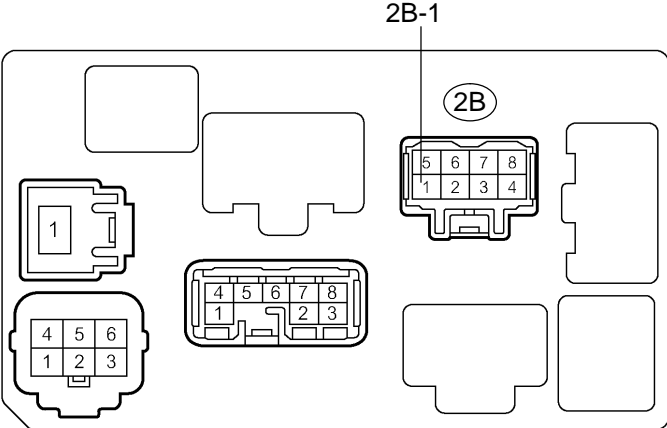
9INSPECT ENGINE ROOM J/B

(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:



NGGo to step 10

OK

REPLACE ENGINE ROOM J/B

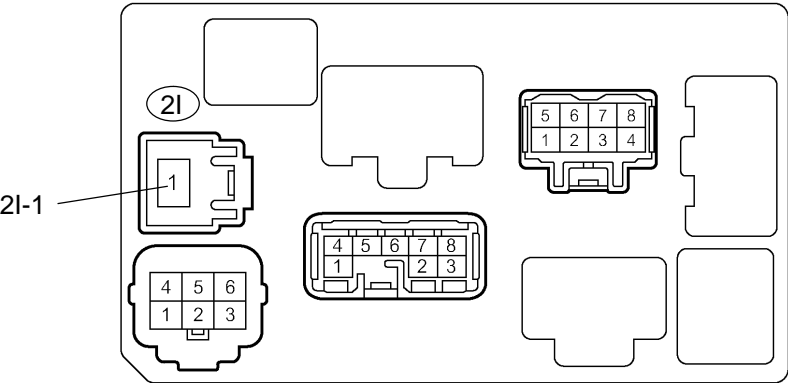
10	CHECK HARNESS AND CONNECTOR(POWER SOURCE CIRCUIT)
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- (a) Disconnect the 2I connector from the engine room J/B.
- (b) Measure the voltage according to the value(s) in the table below.

Standard:

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

Engine Room J/B  
Connector Front View:



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NG	REPAIR OR CONNECTOR	REPLACE HARNESS OR
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OK

REPLACE ENGINE ROOM J/B
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