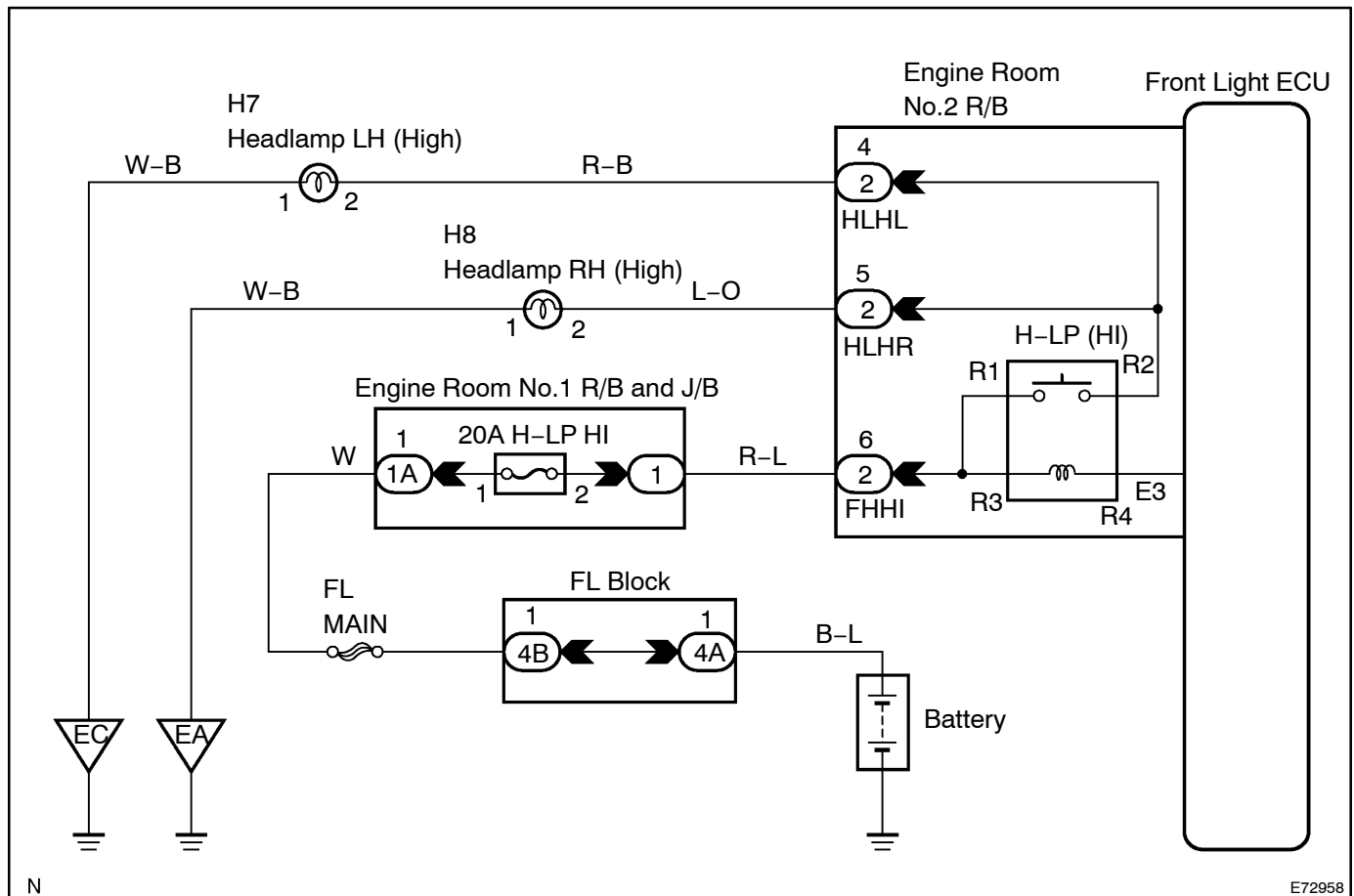


HEADLIGHT(HI-BEAM) CIRCUIT

CIRCUIT DESCRIPTION

The front light ECU receives headlamp HI switch information from the combination switch, and turns on the headlight.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 PERFORM ACTIVE TEST ON INTELLIGENT TESTER

- (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 headlamp operation.

BODY NO.5 (MULTIPLEX NETWORK FRONT LIGHT ECU):

Item	Test Details	Diagnostic Note
Light Head (High)	Light HEAD (high) ON/OFF	-

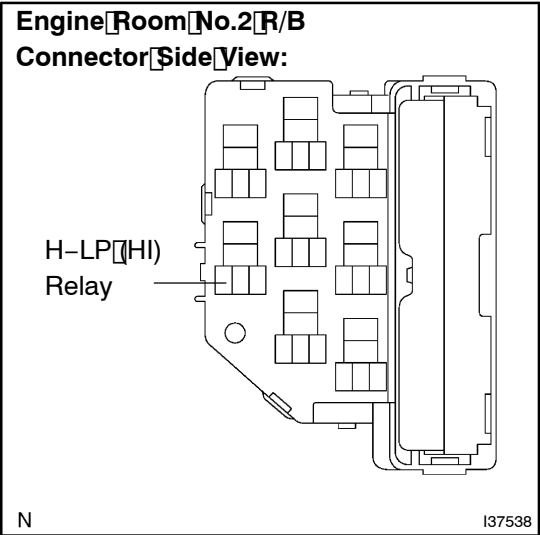
OK: High beam comes on.

NG Go to step 2

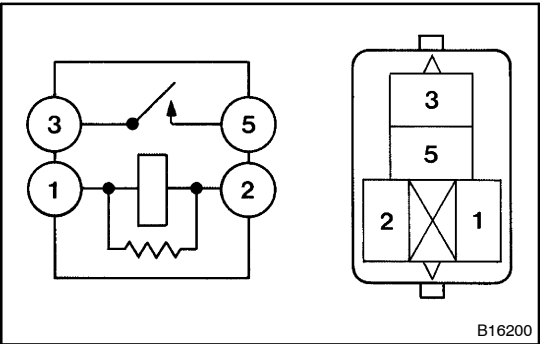
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)

2 INSPECT RELAY



- (a) Remove the H-LP (HI) relay from the engine room No.2 R/B.



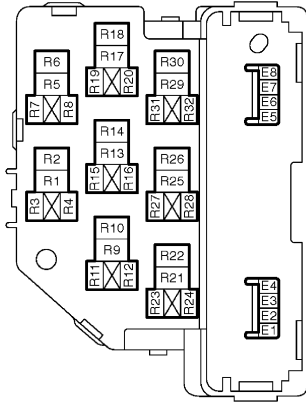
- (b) Inspect the H-LP (HI) relay continuity.
(1) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
3 - 5	10 kΩ or higher
3 - 5	Below 1 Ω (When battery voltage is applied to terminals 1 - 2)

NG REPLACE RELAY

OK

3 INSPECT MULTIPLEX NETWORK BODY ECU(ENGINE ROOM NO.2 R/B)**Engine Room No.2 R/B
Relay Side View:**

N

I37539

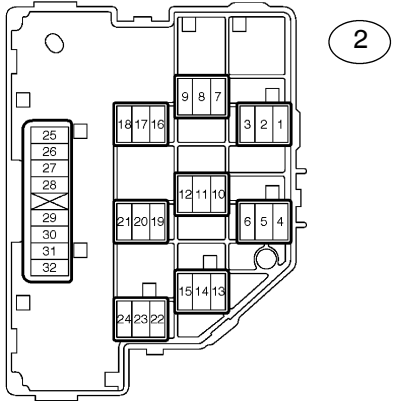
- (a) Using a service wire, connect the R1 and R2 in engine room No.2 R/B.

OK: Head lamp (Hi) comes on.

NG**Go to step 5****OK**

4 INSPECT MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)

Engine Room No.2 R/B
Connector Front View:

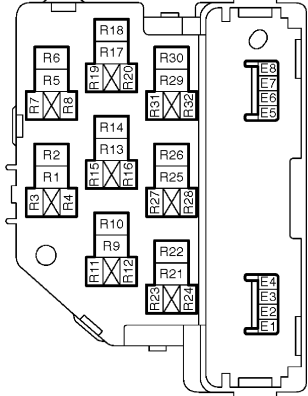


N

I37540

- (a) Disconnect 2-6 connector from the engine room No.2 R/B.
- (b) Remove the front light ECU from the engine room No.2 R/B.

Engine Room No.2 R/B
Relay Side View:



N

I37539

- (c) Using a service wire, connect R3 and R4 in the engine room No.2 R/B.
- (d) Measure the resistance according to the value(s) in the table below.

Standard:

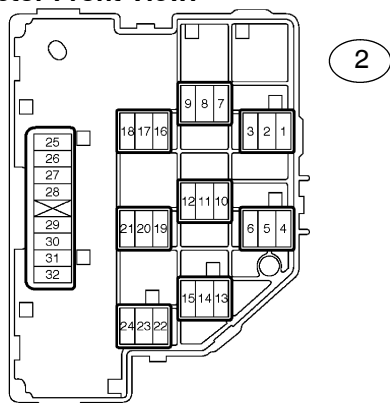
Tester Connection	Condition	Specified Condition
2-6 - E3	Connect R3 and R4	Below 1 Ω

NG

REPLACE MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)

5 INSPECT MULTIPLEX NETWORK BODY ECU(ENGINE ROOM NO.2 R/B)**Engine Room No.2 R/B
Connector Front View:**

N

I37540

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

HINT:

Inspect the side the suspected malfunctioning part is on.

Standard:

Tester Connection	Condition	Specified Condition
2-4 - Body ground (*1)	Connect R1 and R2	10 to 14 V
2-5 - Body ground (*2)	Connect R1 and R2	10 to 14 V

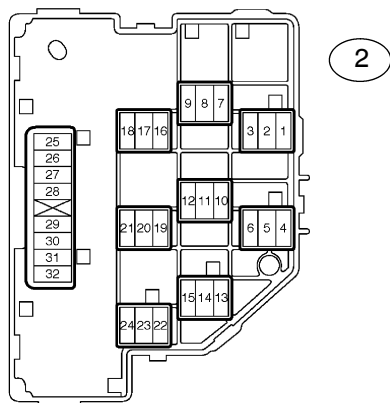
*1: LH side

*2: RH side

NG

Go to step 6

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (EACH OF HEADLAMP (HI-BEAM) CIRCUIT)**6 CHECK HARNESS AND CONNECTOR(POWER SOURCE CIRCUIT)****Engine Room No.2 R/B
Connector Front View:**

N

I37540

- (a) Disconnect 2-6 connector from the engine room No.2 R/B.
- (b) Measure the voltage according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
2-6 - Body ground	Always	10 to 14 V

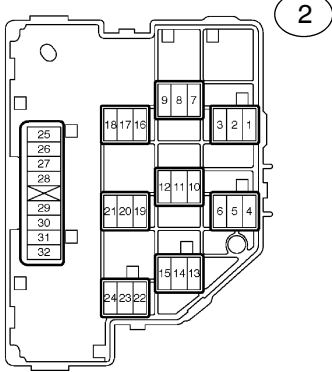
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

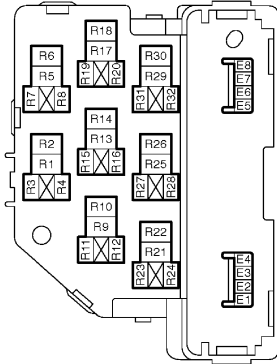
OK

7 INSPECT MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)

Engine Room No.2 R/B
Connector Front View:



Relay Side View:



I37540
I37539

I39838

- (a) Remove the front light ECU from engine room No.2 R/B.
- (b) Using a service wire, connect R3 and R4 of the engine room No.2 R/B.
- (c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Condition	Specified Condition
2-6 - E3	Connect R3 and R4	Below 1 Ω
2-4 - 2-6	Connect R1 and R2	Below 1 Ω
2-5 - 2-6	Connect R1 and R2	Below 1 Ω

NG

REPLACE MULTIPLEX NETWORK BODY ECU
(ENGINE ROOM NO.2 R/B)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE
(SEE PAGE 05-1369)