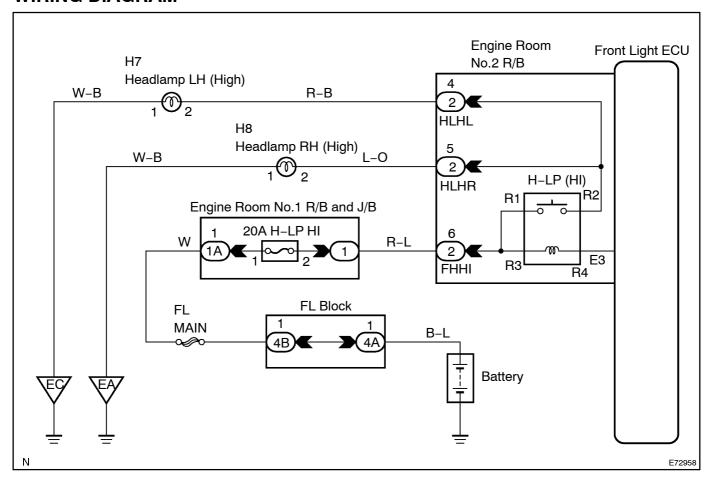
HEADLIGHT(HI-BEAM) CIRCUIT

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]I

- (a) Connect the intelligent tester to the CDLC3.
- (b) Turn the ignition switch to the ON position and turn the intelligent tester is 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)[ΦN/OFF	_

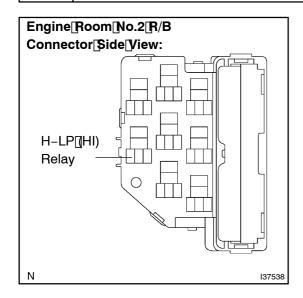
OK:[High[beam[comes[on.

NG[]> Go[to[step[2

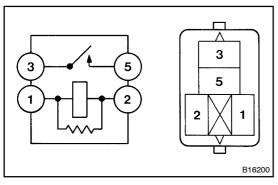
OK

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.

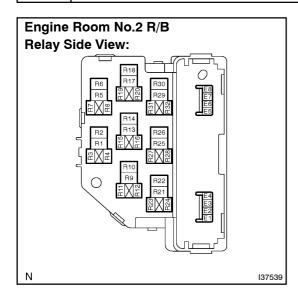
Standard:

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

NG REPLACE RELAY



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



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

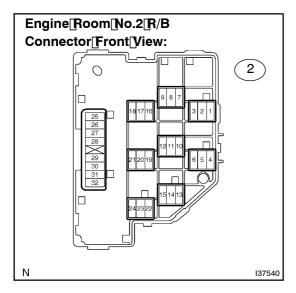
OK: Head lamp (Hi) comes on.

NG >

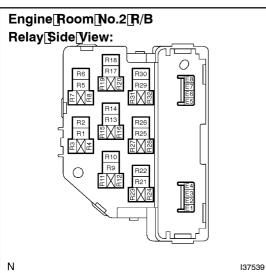
Go to step 5

OK

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



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



- (c) Using a service wire, connect R3 and R4 n 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 –Œ3	Connect[R3[and[R4	Below 1 Ω

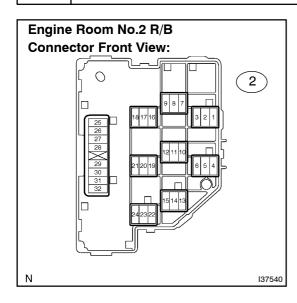
NG门

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE[PAGE[05-1269]

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



(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

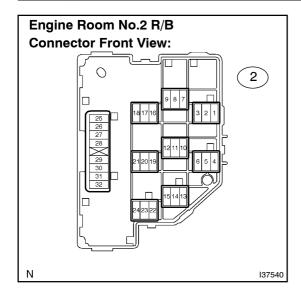
NG

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)



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

Standard:

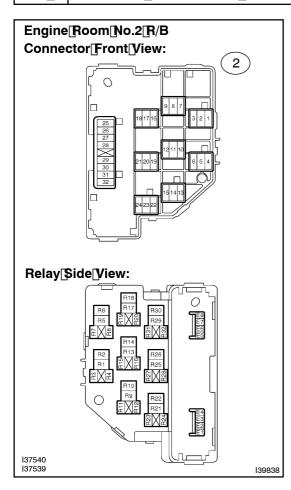
Tester Connection	Condition	Specified Condition
2-6 – Body ground	Always	10 to 14 V

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

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



- (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 –Œ3	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[\$HOWN[IN[PROBLEM[\$YMPTOMS[TABLE (SEE[PAGE[05-1369)