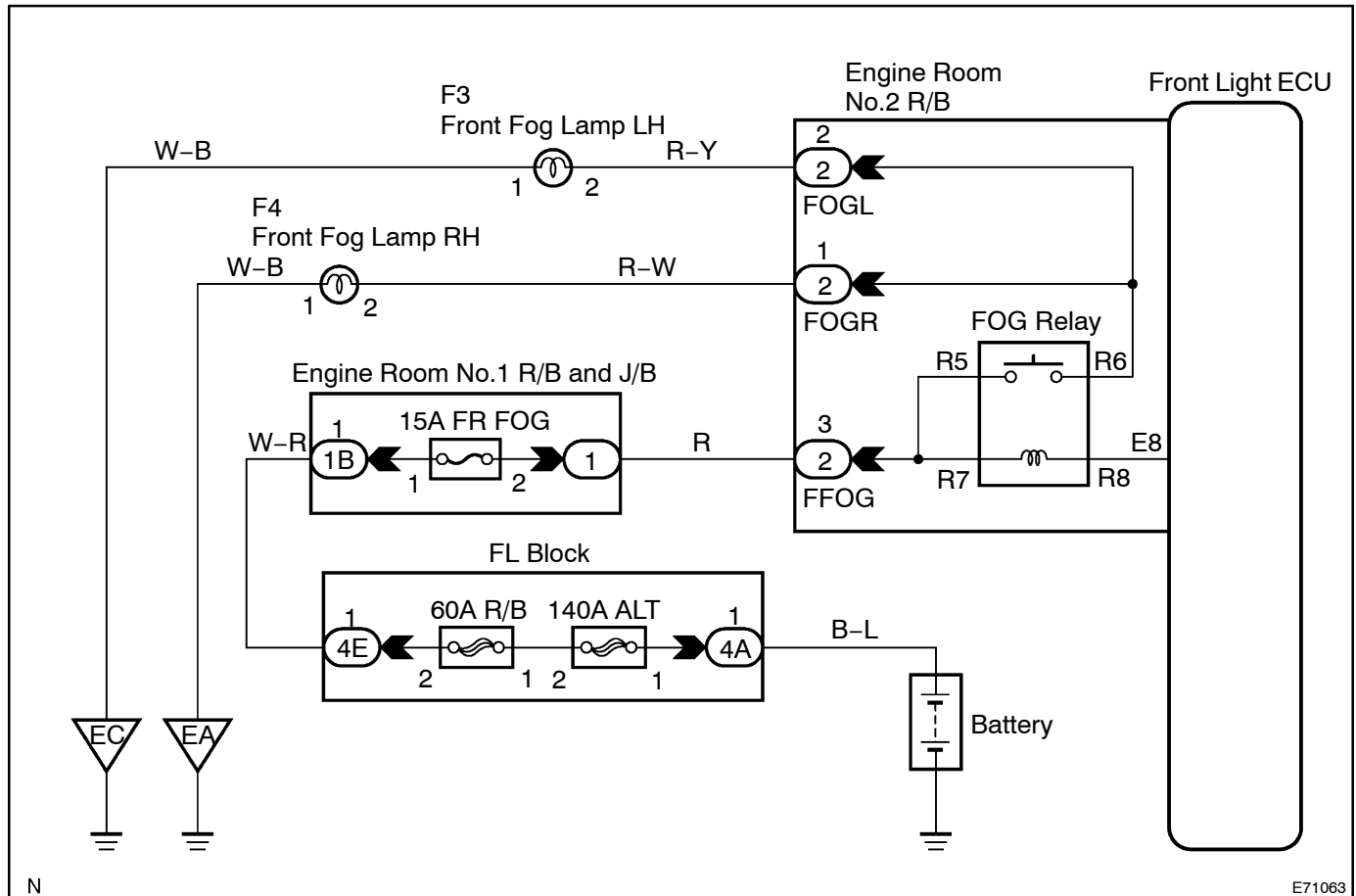


# FRONT FOG LIGHT CIRCUIT

## CIRCUIT DESCRIPTION

The front light ECU receives fog lamp switch information from the combination switch, and turns on the fog lamp.

## 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 relay operation.

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

Item	Test Details	Diagnostic Note
Front Fog Light Relay	Front Fog Light Relay ON/OFF	-

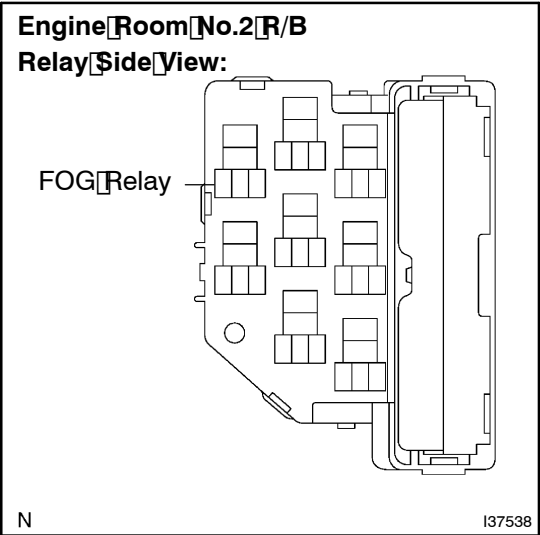
OK: Front fog lamp comes on.

NG Go to step 2

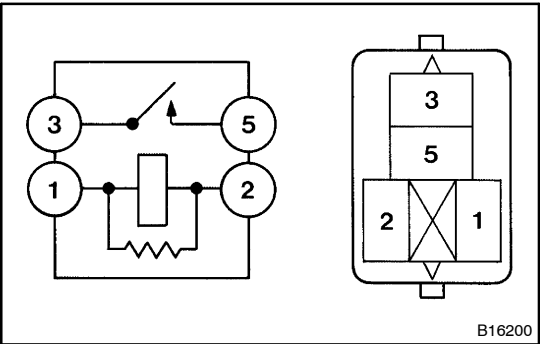
OK

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

2 INSPECT RELAY



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



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

Standard:

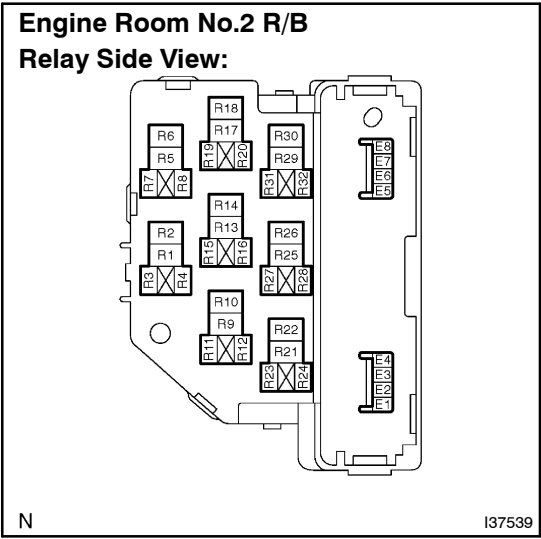
Tester Connection	Specified Condition
3 - 5	10 kΩ or higher
3 - 5	Below 1 Ω (When battery voltage is applied to terminals 1 - 2)

NG REPLACE RELAY

OK

3

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



- (a) Using a service wire, connect R5 and R6 in engine room No.2 R/B.

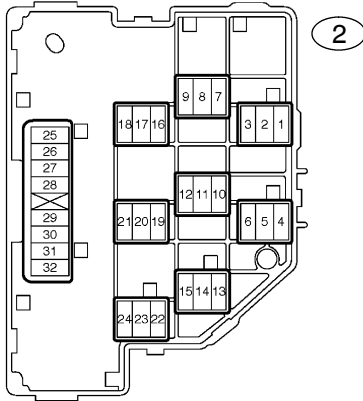
**OK: Fog lamp comes on.**

OK

NG Go to step 5

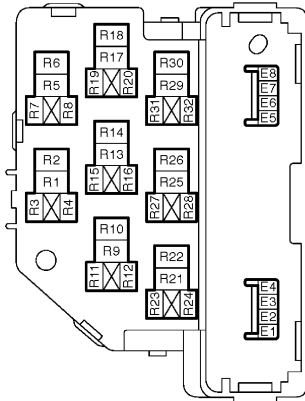
4 INSPECT MULTIPLEX NETWORK BODY ECU (ENGINE ROOM NO.2 R/B)

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



- (a) Disconnect 2-3 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:



- (c) Using a service wire, connect R7 and R8 in the engine room No.2 R/B.
- (d) Measure the resistance according to the value(s) in the table below.

Standard:

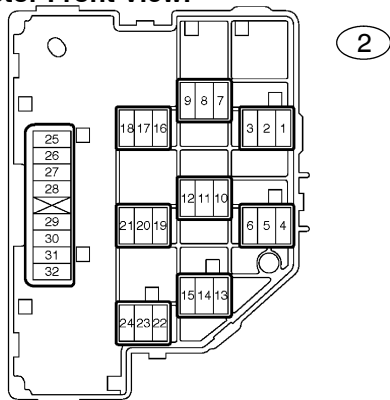
Tester Connection	Condition	Specified Condition
2-3 - E8	Connect R7 and R8	Below 1 Ω

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
2-1 - Body ground (*1)	Connect R5 and R6	10 to 14 V
2-2 - Body ground (*2)	Connect R5 and R6	10 to 14 V

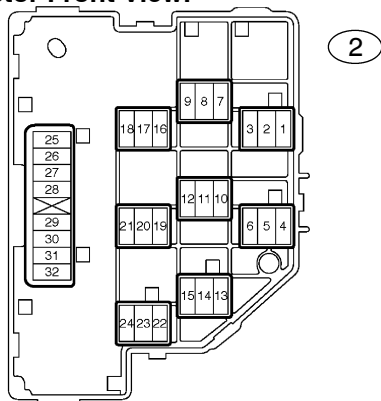
\*1: RH side

\*2: LH side

NG

Go to step 6

OK

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

N

I37540

- (a) Disconnect 2-3 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
2-3 - Body ground	Always	10 to 14 V

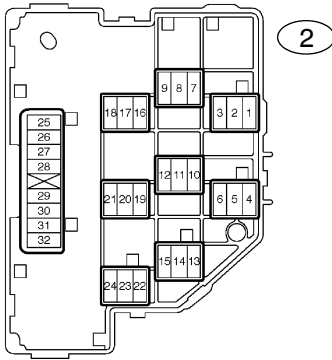
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

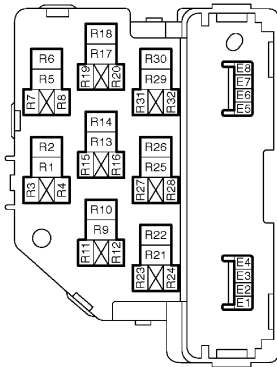
OK

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 the engine room No.2 R/B.
- (b) Using a service wire, connect R7 and R8 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
2-3 - E8	Connect R7 and R8	Below 1 Ω
2-1 - 2-3	Connect R5 and R6	Below 1 Ω
2-2 - 2-3	Connect R5 and R6	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)