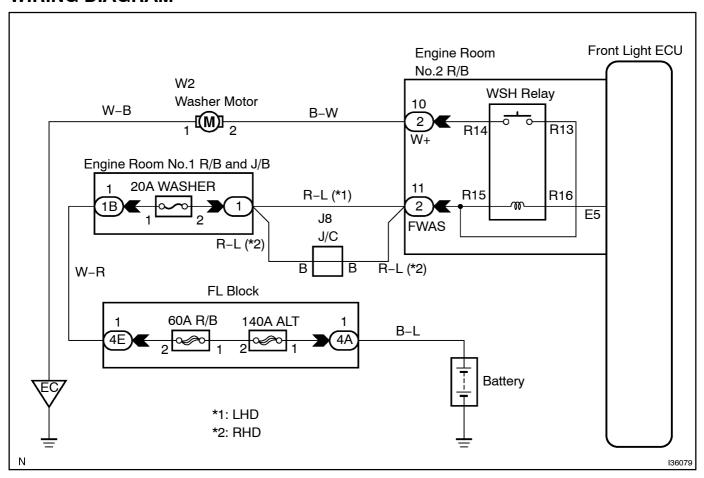
WASHER MOTOR CIRCUIT

CIRCUIT DESCRIPTION

The front light ECU receives washer switch information from the combination switch, and operates the washer relay.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 | PERFORM[ACTIVE]TEST[ON]NTELLIGENT[TESTER]I

- (a) Connect[]he[]ntelligent[]ester[]l[]to[]he[]DLC3.
- (b) Turn[]he[]gnition[\$witch[]o[]he[ON[]position[and[]urn[]]he[]ntelligent[]ester[]l[]main[\$witch[]on.

BODY[NO.5](MULTIPLEX[NETWORK[FRONT[LIGHT[ECU]:

| Item | Test[Details | Diagnostic[Note |
|------------------------|--------------------|-----------------|
| Washer[Motor[Operation | Washer@notor@FF/ON | _ |

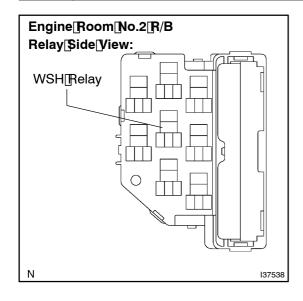
OK: Washer motor operates.

NG Go to step 2

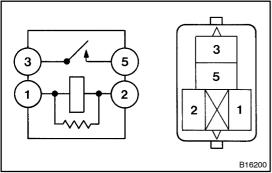
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 5-1582)

2 INSPECT RELAY



(a) Remove the WSH relay from the engine room No.2 relay block.



(b) Measure the resistance according to the value(s) in the table below.

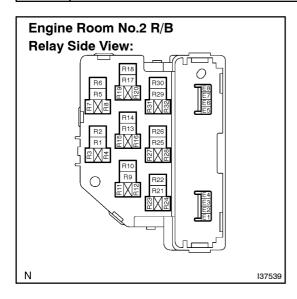
Standard:

| 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

OK

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



(a) Using a service wire, connect R13 and R14 in the engine room No.2 relay block.

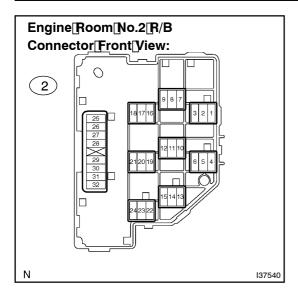
OK: Front window washer operates.

NG > 0

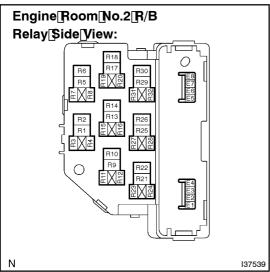
Go to step 5

OK

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



- (a) Disconnect he 2-11 connector from he engine room No.2 elay hock.
- (b) Remove[the[front[ight[ECU[from[the[engine[room[No.2 relay[block.



- (c) Using a service wire, connect R15 and R16 in the engine room No.2 relay block.
- (d) Measure the resistance according to the value (s) in the table below.

Standard:

| Tester@onnection | Condition | Specified@ondition |
|------------------|---------------------|--------------------|
| 2–11 –Œ5 | Connect[R15[and[R16 | Below 1 Ω |

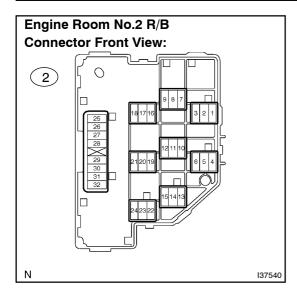
NG∐

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

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE[PAGE[05-1582)

5 CHECK HARNESS AND CONNECTOR (POWER SOURCE CIRCUIT)



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

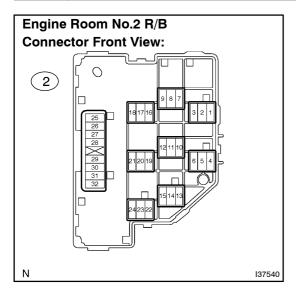
Standard:

| Tester connection | Condition | Specified condition |
|------------------------------|-----------|---------------------|
| 2–11 (FWAS) – Body ground | Always | 10 to 14 V |

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

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



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

Standard:

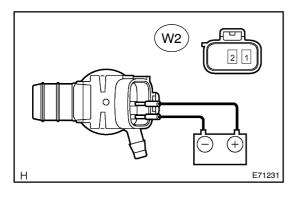
| Tester connection | Condition | Specified condition |
|----------------------------|---------------------|---------------------|
| 2–10 (W+) – Body ground | Connect R13 and R14 | 10 to 14 V |

NG

Go to step 8

OK

7 INSPECT WINDSHIELD WASHER MOTOR AND PUMP ASSY



- (a) Disconnect the windshield washer motor and pump assy connector.
- (b) Connect the positive battery (+) lead to terminal 2 of the windshield washer motor and pump assy, and the negative battery (-) lead to terminal 1.

OK: Operation sounds are heard.

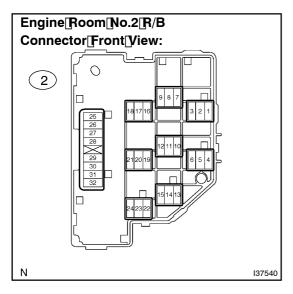
NG \

REPLACE WINDSHIELD WASHER MOTOR AND PUMP ASSY

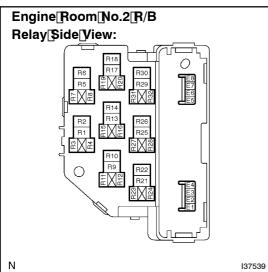


REPAIR OR REPLACE HARNESS OR CONNECTOR(WASHER MOTOR CIRCUIT)

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



- (a) Disconnect he 2-11 connector from he engine room No.2 elay hock.
- (b) Remove[the[front[ight[ECU[from[the[engine[room[No.2 relay[block.



- (c) Using $\$ ervice $\$ wire, $\$ connect $\$ 15 and $\$ 16 in $\$ the engine room $\$ unction $\$ lock.
- (d) Measure the resistance according to the value (s) in the table below.

Standard:

| Tester[connection | Condition | Specified@ondition |
|-------------------|---------------------|--------------------|
| 2-10 -[2-11 | Connect[R13[and[R14 | Below 1 Ω |
| 2–11 –Œ5 | Connect[R15[and[R16 | Below 1 Ω |

NG∐

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

OK

PROCEED[TO[NEXT[CIRCUIT]]NSPECTION[\$HOWN]]N[PROBLEM[\$YMPTOMS[TABLE (SEE[PAGE[05-1582])