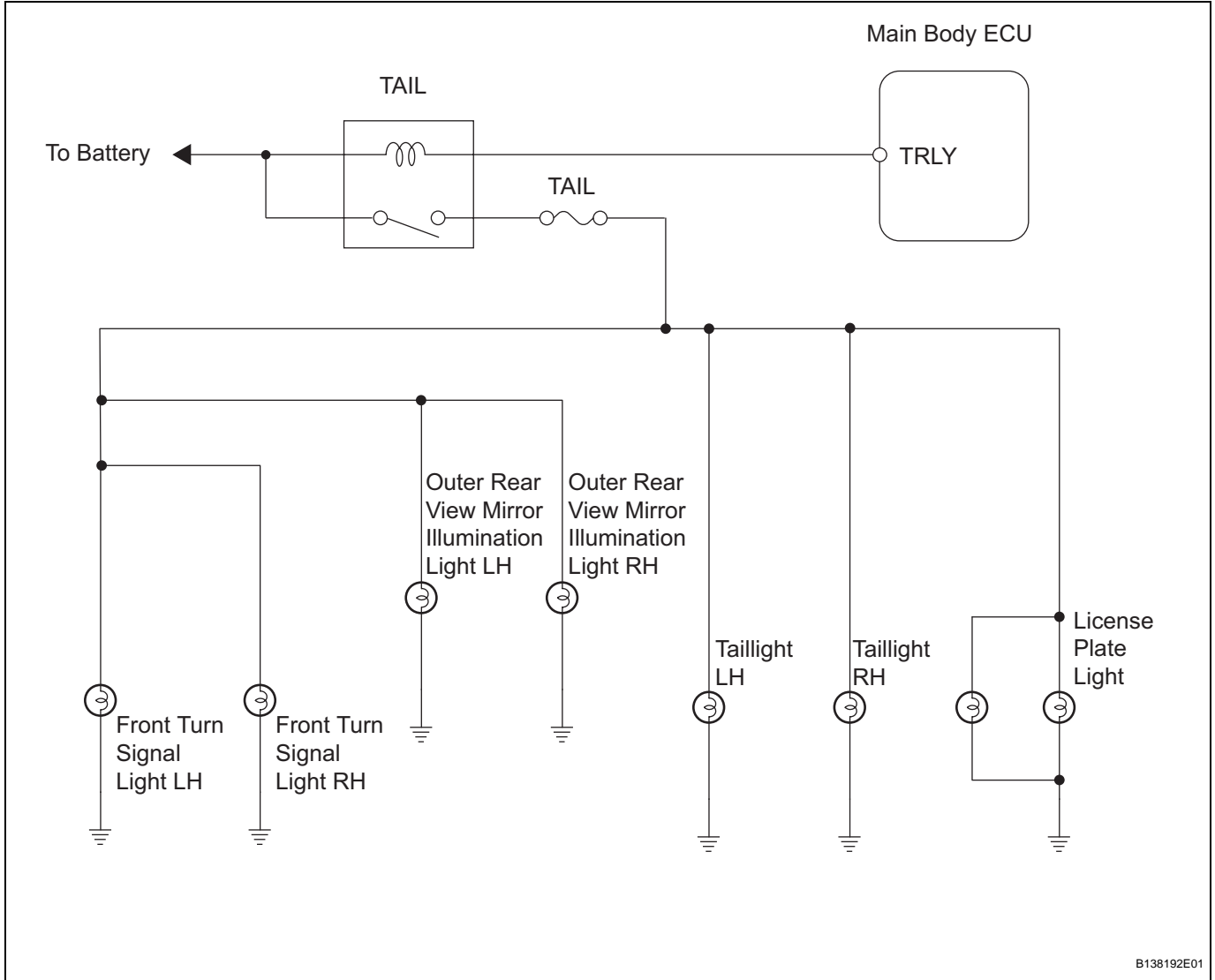


## Taillight Relay Circuit

### DESCRIPTION

The headlight dimmer switch sends a signal to the main body ECU.

### WIRING DIAGRAM



### INSPECTION PROCEDURE

#### 1 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (ILLUMI OUTPUT)

- (a) Connect the intelligent tester with CAN VIM to the DLC3.
- (b) Turn the ignition switch ON.
- (c) Turn the intelligent tester main switch on.
- (d) Select the item below in the ACTIVE TEST and then check the relay operation.

### BODY

Item	Test Details/ Display (Range)	Diagnostic Note
ILLUMI OUTPUT	Illuminated Entry System ON/OFF	-

**Result**

Result	Proceed to
OK	A
No illumination lights illuminate	B
Front turn signal light does not illuminate	C
Taillight or license plate light does not illuminate	D
Outer rear view mirror illumination light does not illuminate	E

B	Go to step 2
C	Go to step 5
D	Go to step 7
E	Go to step 10

A

**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

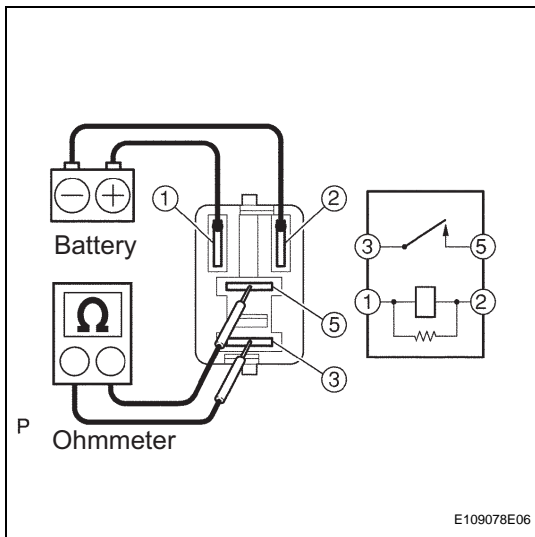
**2 INSPECT FUSE (TAIL FUSE)**

- (a) Remove the TAIL fuse from the main body ECU.
  - (b) Measure the resistance.
- Standard resistance:**  
Below 1 Ω
- (c) Reinstall the TAIL fuse.

**NG** → **REPLACE FUSE**

OK

**3 INSPECT TAIL RELAY**



- (a) Remove the TAIL relay from the main body ECU.
  - (b) Measure the resistance.
- Standard resistance**

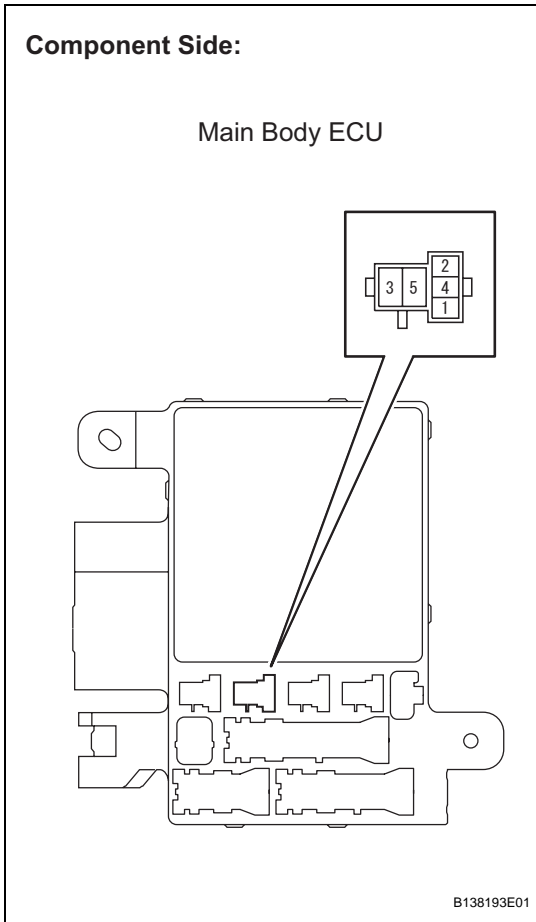
Tester Connection	Specified Condition
3 - 5	10 kΩ or higher
3 - 5	Below 1 Ω (When battery voltage is applied between terminals 1 and 2)

- (c) Reinstall the TAIL relay.

**NG** → **REPLACE TAIL RELAY**

OK

**4 CHECK HARNESS AND CONNECTOR (BATTERY - TAIL RELAY)**



- (a) Remove the TAIL relay from the main body ECU.
- (b) Measure the resistance.

**Standard resistance**

Tester Connection	Condition	Specified Condition
1 - Body ground	Always	11 to 14 V
5 - Body ground	Always	11 to 14 V

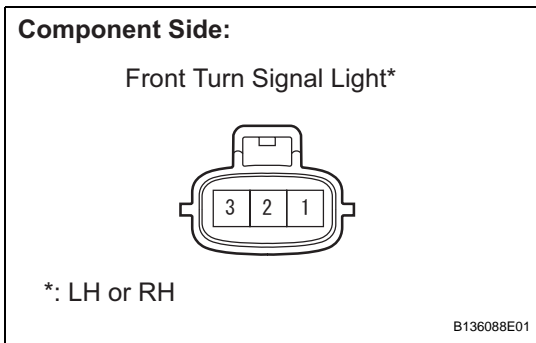
- (c) Reinstall the TAIL relay.

**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

**REPLACE MAIN BODY ECU**

**5 INSPECT BULB (FRONT TURN SIGNAL LIGHT)**



- (a) Remove the front turn signal lights.
- (b) Apply battery voltage to the terminals and check that the front turn signal light illuminates.

**Standard**

Measurement Condition	Standard
Positive battery - Terminal 1 Negative battery - Terminal 2	Front turn signal light illuminates

- (c) Reinstall the front turn signal lights.

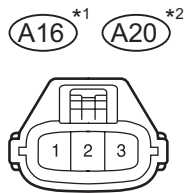
**NG** REPLACE BULB

OK

**6 CHECK HARNESS AND CONNECTOR (MAIN BODY ECU - FRONT TURN SIGNAL LIGHT)**

**Wire Harness Side:**

Front Turn Signal Light Connector

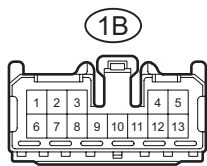


Front View

\*1: LH

\*2: RH

Main Body ECU Connector



Front View

B138191E01

- (a) Disconnect the A16 and A20 front turn signal light connectors.
- (b) Disconnect the 1B main body ECU connector.
- (c) Measure the resistance.

**Standard resistance**

Tester Connection	Specified Condition
A16-1 - 1B-9	Below 1 Ω
A20-1 - 1B-11	Below 1 Ω
A16-1 or 1B-9 - Body ground	10 kΩ or higher
A20-1 or 1B-11 - Body ground	10 kΩ or higher

- (d) Reconnect the front turn signal light connectors.
- (e) Reconnect the main body ECU connector.

**NG** **REPAIR OR REPLACE HARNESS OR CONNECTOR**

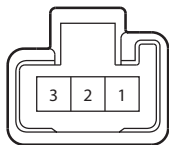
**OK**

**REPAIR OR REPLACE HARNESS OR CONNECTOR (FRONT TURN SIGNAL LIGHT - BODY GROUND)**

**7 INSPECT BULB (TAILLIGHT)**

**Component Side:**

Taillight\*



\*: LH or RH

B141038E01

- (a) Remove the taillights.
- (b) Apply battery voltage to the terminals and check that the taillight illuminates.

**Standard**

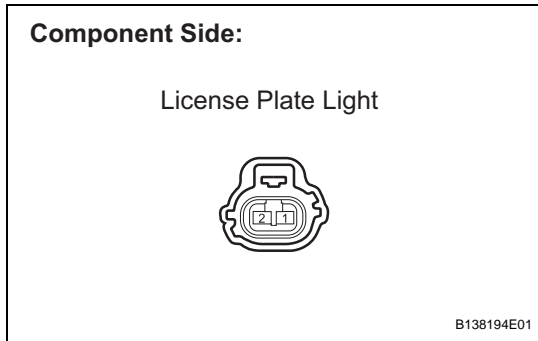
Measurement Condition	Standard
Positive battery - Terminal 1 Negative battery - Terminal 2	Taillight illuminates

- (c) Reinstall the taillights.

**NG** **REPLACE BULB**

**OK**

**8 INSPECT BULB (LICENSE PLATE LIGHT)**



- (a) Remove the license plate light.
- (b) Apply battery voltage to the terminals and check that the license plate light illuminates.

**Standard**

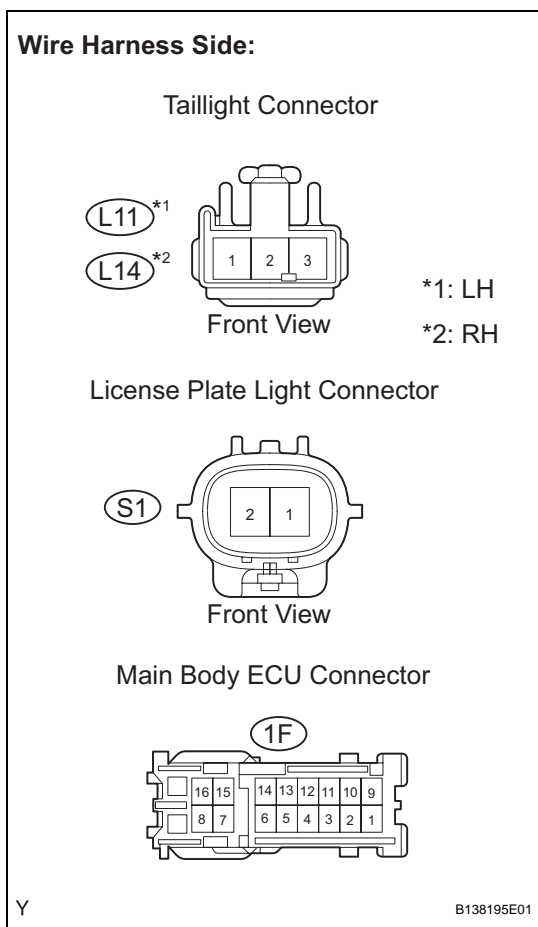
Measurement Condition	Standard
Positive battery - Terminal 1 Negative battery - Terminal 2	Licence plate light illuminates

- (c) Reinstall the license plate light.

**NG** → **REPLACE BULB**

**OK**

**9 CHECK HARNESS AND CONNECTOR (MAIN BODY ECU - TAILLIGHT, LICENSE PLATE LIGHT)**



- (a) Disconnect the L11 and L14 taillight connectors.
- (b) Disconnect the S1 license plate light connector.
- (c) Disconnect the 1F main body ECU connector.
- (d) Measure the resistance.

**Standard resistance**

Tester Connection	Specified Condition
1F-13 - L11-2	Below 1 Ω
1F-13 - L14-2	Below 1 Ω
1F-13 - S1-2	Below 1 Ω
1F-13 or L11-2 or Body ground	10 kΩ or higher
1F-13 or L14-2 or Body ground	10 kΩ or higher
1F-13 or S1-2 or Body ground	10 kΩ or higher

- (e) Reconnect the taillight connectors.
- (f) Reconnect the license plate light connector.
- (g) Reconnect the main body ECU connector.


**NG** → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**REPAIR OR REPLACE HARNESS OR CONNECTOR (TAILLIGHT, LICENSE PLATE LIGHT - BODY GROUND)**

**10 INSPECT BULB (OUTER REAR VIEW MIRROR ILLUMINATION LIGHT)**

**Component Side:**  
Outer Rear View Mirror Assembly\*



\*: LH and RH

Y B138196E01

- (a) Remove the outer rear view mirror assembly.
- (b) Apply battery voltage to the terminals and check that the outer rear view mirror illumination light illuminates.

**Standard**

Measurement Condition	Standard
Positive battery - Terminal 2 Negative battery - Terminal 1	Outer rear view mirror illumination light illuminates

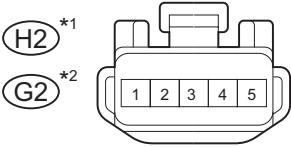
- (c) Reinstall the outer rear view mirror assembly.

**NG** **REPLACE BULB**

**OK**

**11 CHECK HARNESS AND CONNECTOR (MAIN BODY ECU - OUTER REAR VIEW MIRROR ILLUMINATION LIGHT)**

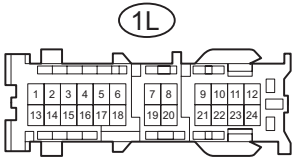
**Wire Harness Side:**  
Outer Rear View Mirror Assembly Connector



\*1: LH  
\*2: RH

Front View

Main Body ECU Connector



Front View

Y B138197E01

- (a) Disconnect the H2 and G2 outer rear view mirror assembly connectors.
- (b) Disconnect the 1L main body ECU connector.
- (c) Measure the resistance.

**Standard resistance**

Tester Connection	Specified Condition
1L-5 - H2-2	Below 1 Ω
1L-5 - G2-2	Below 1 Ω

- (d) Reconnect the outer rear view mirror assembly connector.
- (e) Reconnect the main body ECU connector.

**NG** **REPAIR OR REPLACE HARNESS OR CONNECTOR**

**OK**

**REPAIR OR REPLACE HARNESS OR CONNECTOR (OUTER REAR VIEW MIRROR ILLUMINATION LIGHT - BODY GROUND)**