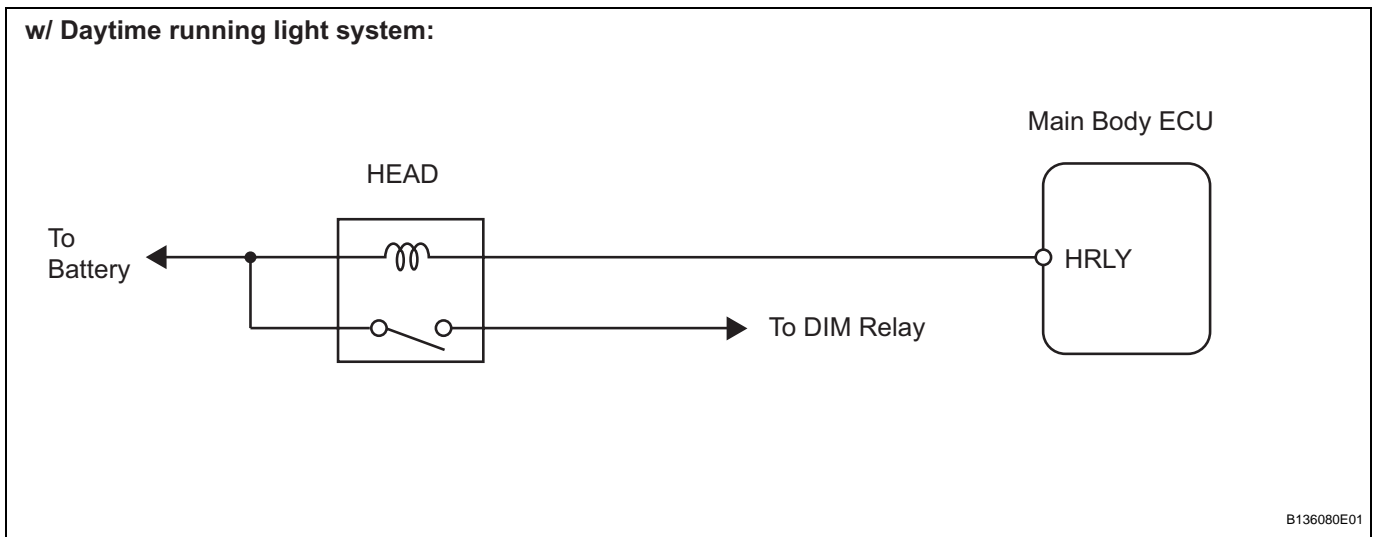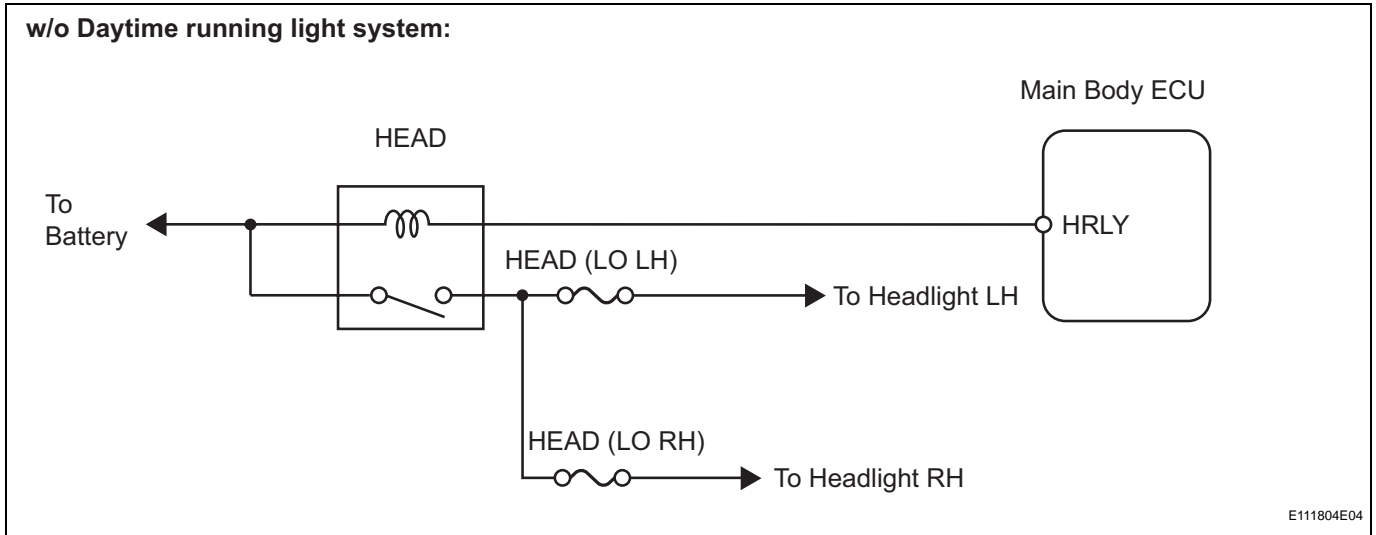# Headlight Relay Circuit

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

WIRING DIAGRAM

w/o Daytime running light system:

E111804E04

w/ Daytime running light system:

B136080E01

LI

INSPECTION PROCEDURE

1	PERFORM ACTIVE TEST BY INTELLIGENT TESTER (HEAD LIGHT)

(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

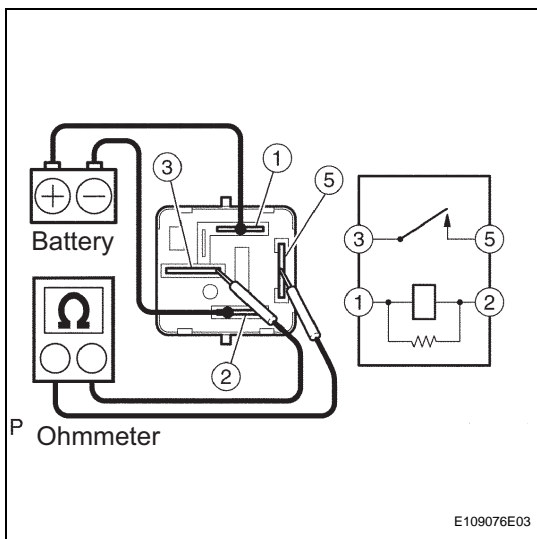| Item	Test Details	Diagnostic Note
HEAD LIGHT	Headlight relay ON / OFF	-

OK:
Headlight assembly (low) illuminates.

| OK > | PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE |

NG

| 2 | INSPECT HEADLIGHT RELAY |

Battery

Ω

P Ohmmeter

E109076E03

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

| NG > | REPLACE HEADLIGHT RELAY |

OK

| 3 | CHECK HARNESS AND CONNECTOR (BATTERY - HEADLIGHT RELAY) |

Engine Room R/B No. 2:

B136078E01
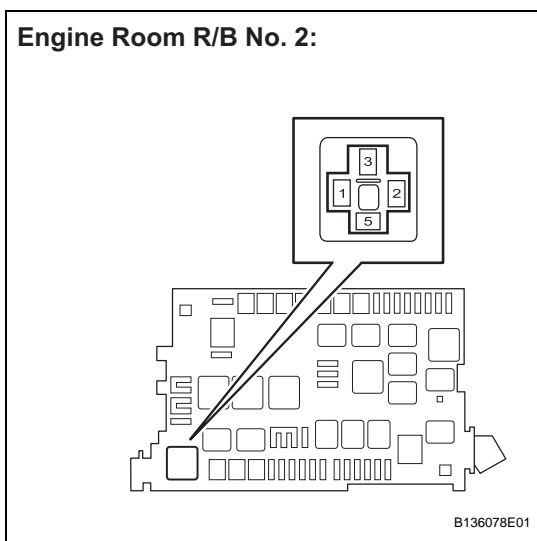
(a) Remove the HEAD relay from the engine room R/B No. 2.
(b) Measure the voltage.
    Standard voltage

Tester connection	Condition	Specified Condition
HEAD relay terminal 1 - Body ground	**Always**	**11 to 14 V**

(c) Reinstall the HEAD relay.

| NG > | REPAIR OR REPLACE HARNESS OR CONNECTOR |

OK

4	CHECK HARNESS AND CONNECTOR (HEADLIGHT RELAY - MAIN BODY ECU)

Wire Harness Side:

Main Body ECU Connector

HRLY

(1B)

1	2	3			4	5
6	7	8	9	10	11	12	13

Front View

Engine Room R/B No. 2:

B136079E01
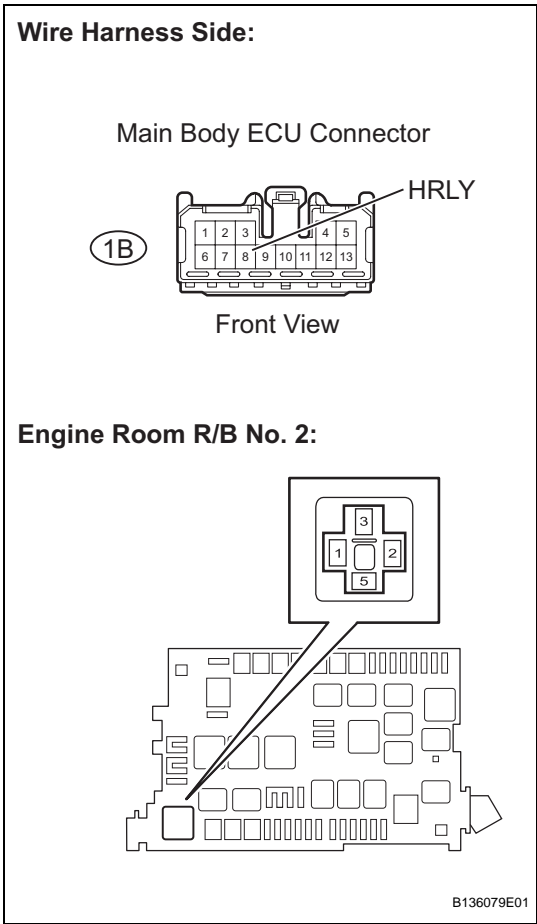
(a) Remove the HEAD relay from the engine room R/B No. 2.
(b) Disconnect the 1B main body ECU connector.
(c) Measure the resistance.
   Standard resistance

Tester connection	Specified Condition
HEAD relay terminal 2 - 1B-8 (HRLY)	Below 1 Ω
HEAD relay terminal 2 or 1B-8 (HRLY) - Body ground	10 kΩ or higher

(d) Reinstall the HEAD relay.
(e) Reconnect the main body ECU connector.

NG >	REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE