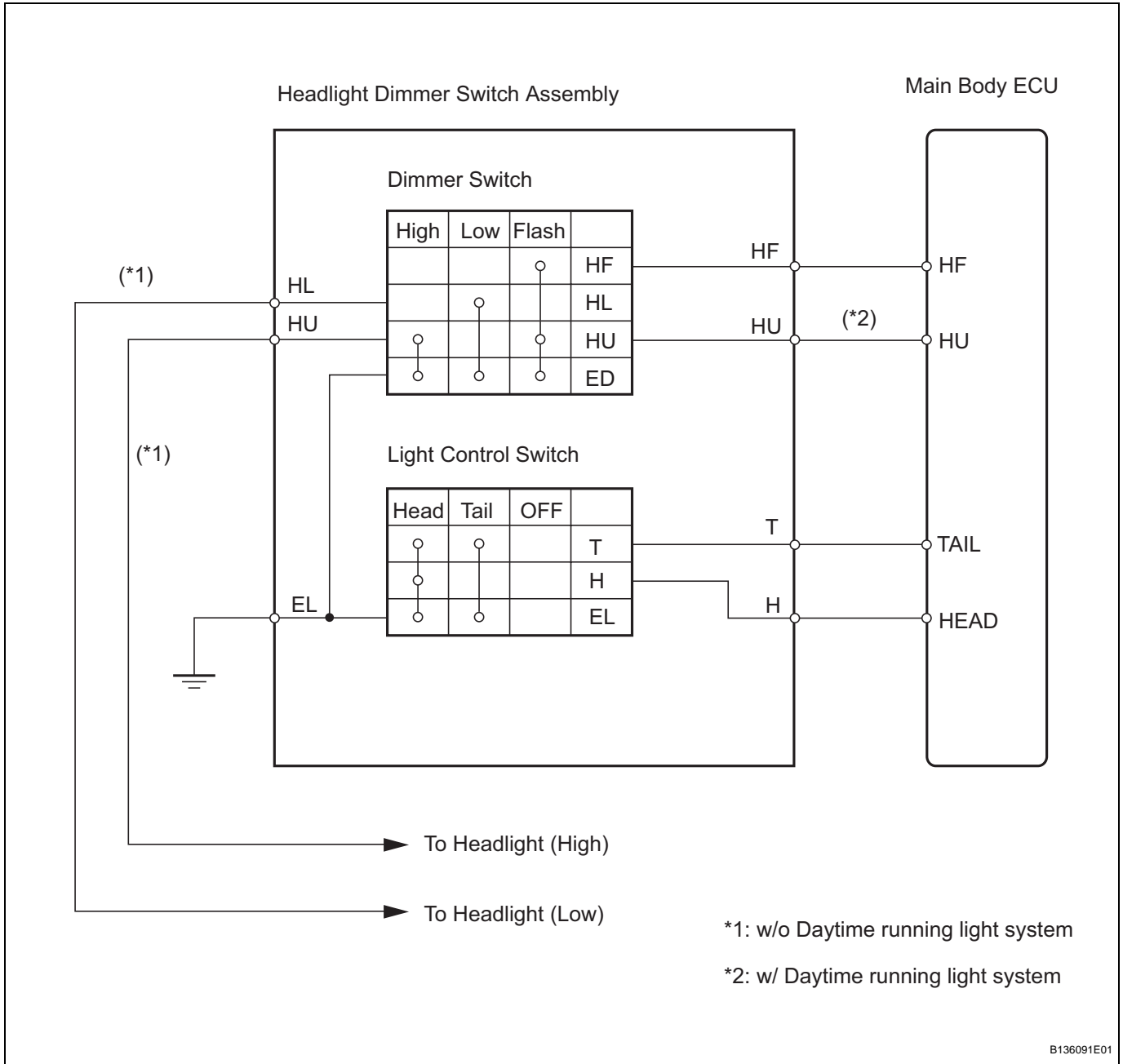


Light Control Switch Circuit

DESCRIPTION

This circuit detects the state of the headlight dimmer switch.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF INTELLIGENT TESTER

- Connect the intelligent tester with CAN VIM to the DLC3.
- Turn the ignition switch ON.
- Turn the intelligent tester on.

- (d) Select the item(s) in the DATA LIST, and read the display on the intelligent tester.

BODY

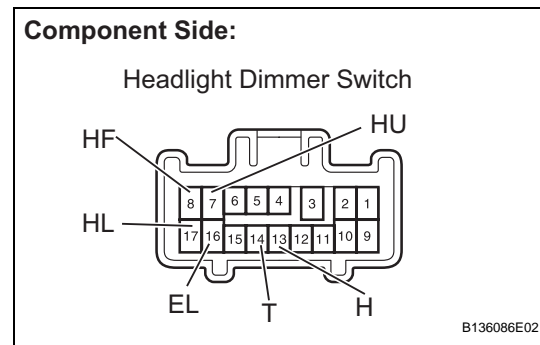
Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
HIGH FLASER SW	Passing light switch signal / ON or OFF	ON: Headlight dimmer switch is in FLASH (PASS) position OFF: Headlight dimmer switch is not in FLASH (PASS) position	-
DIMMER SW	Dimmer switch signal/ON or OFF	ON: Dimmer switch is ON (High Beam) or High flasher switch is ON OFF: Dimmer switch is OFF (Low Beam) or High flasher switch is OFF	-
HEAD LIGHT SW	Headlight control switch signal / ON or OFF	ON: Light control switch is in HEAD position OFF: Light control switch is not in HEAD position	-
TAIL LIGHT SW	Taillight switch signal / ON or OFF	ON: Light control switch is in TAIL or HEAD position OFF: Light control switch is in OFF position	-

OK:
Condition information can be displayed.

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

NG

2 INSPECT HEADLIGHT DIMMER SWITCH ASSEMBLY



- (a) Remove the headlight dimmer switch assembly.
 (b) Measure the resistance.
 (1) Light Control Switch:
Standard resistance

Tester Connection	Condition	Specified Condition
14 (T) - 16 (EL)	OFF	10 kΩ or higher
13 (H) - 16 (EL)		
14 (T) - 16 (EL)	TAIL	Below 1 Ω
13 (H) - 16 (EL)		10 kΩ or higher
14 (T) - 16 (EL)	HEAD	Below 1 Ω
13 (H) - 16 (EL)		Below 1 Ω

- (2) Headlight Dimmer Switch Switch:
Standard resistance

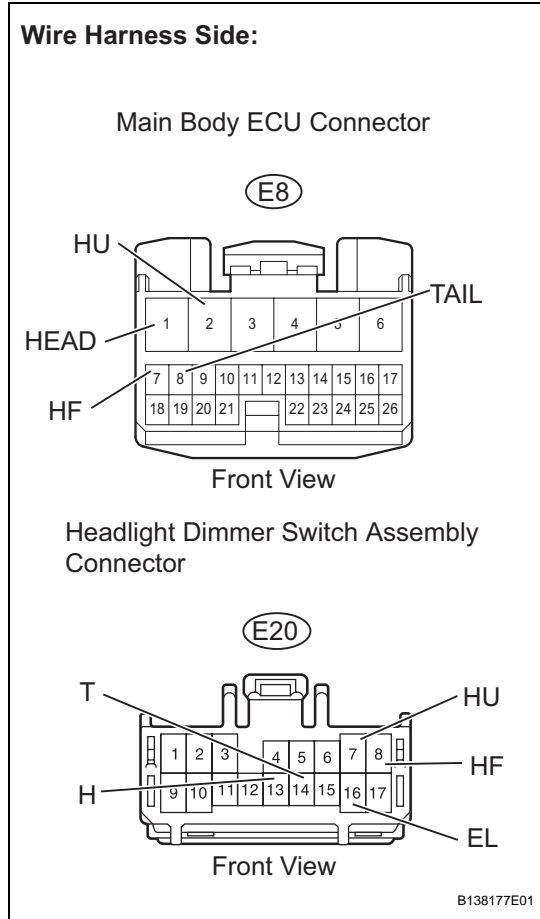
Tester Connection	Condition	Specified Condition
7 (HU) - 16 (EL)	HIGH BEAM	Below 1 Ω
17 (HL) - 16 (EL)	LOW BEAM	Below 1 Ω
7 (HU) - 8 (HF) - 16 (EL)	FLASH	Below 1 Ω

- (c) Reinstall the headlight dimmer switch assembly.

NG **REPLACE HEADLIGHT DIMMER SWITCH ASSEMBLY**

OK

3 CHECK HARNESS AND CONNECTOR (HEADLIGHT DIMMER SWITCH - MAIN BODY ECU)



- (a) Disconnect the E8 main body ECU connector.
- (b) Disconnect the E20 headlight dimmer switch assembly connector.

(c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E20-8 (HF) - E8-7 (HF)	Below 1 Ω
E20-8 (HF) or E8-7 (HF) - Body ground	10 kΩ or higher
E20-14 (T) - E8-8 (TAIL)	Below 1 Ω
E20-14 (T) or E8-8 (TAIL) - Body ground	10 kΩ or higher
E20-13 (H) - E8-1 (HEAD)	Below 1 Ω
E20-13 (H) or E8-1 (HEAD) - Body ground	10 kΩ or higher
E20-7 (HU) - E8-2 (HU)*	Below 1 Ω
E20-7 (HU) or E8-2 (HU)* - Body ground	10 kΩ or higher
E20-16 (EL) - Body ground	Below 1 Ω

HINT:

*: w/ Daytime running light system

- (d) Reconnect the main body ECU connector.
- (e) Reconnect the headlight dimmer switch assembly connector.

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

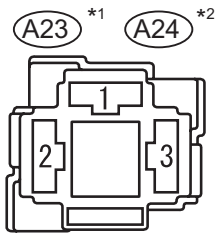
4 CHECK HARNESS AND CONNECTOR (HEADLIGHT DIMMER SWITCH - HEADLIGHT*)

HINT:

*: w/o Daytime running light system

Wire Harness Side:

Headlight Connector

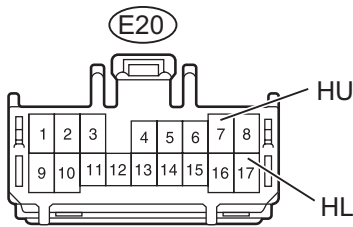


Front View

*1: LH

*2: RH

Headlight dimmer Switch Assembly Connector



Front View

B138178E01

- (a) Disconnect the E20 headlight dimmer switch assembly connector.
- (b) Disconnect the A23 and A24 headlight connectors.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
E20-17 (HL) - A23-1	Below 1 Ω
E20-17 (HL) - A24-1	Below 1 Ω
E20-7 (HU) - A23-2	Below 1 Ω
E20-7 (HU) - A24-2	Below 1 Ω

- (d) Reconnect the headlight dimmer switch assembly connector.
- (e) Reconnect the headlight connectors.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE