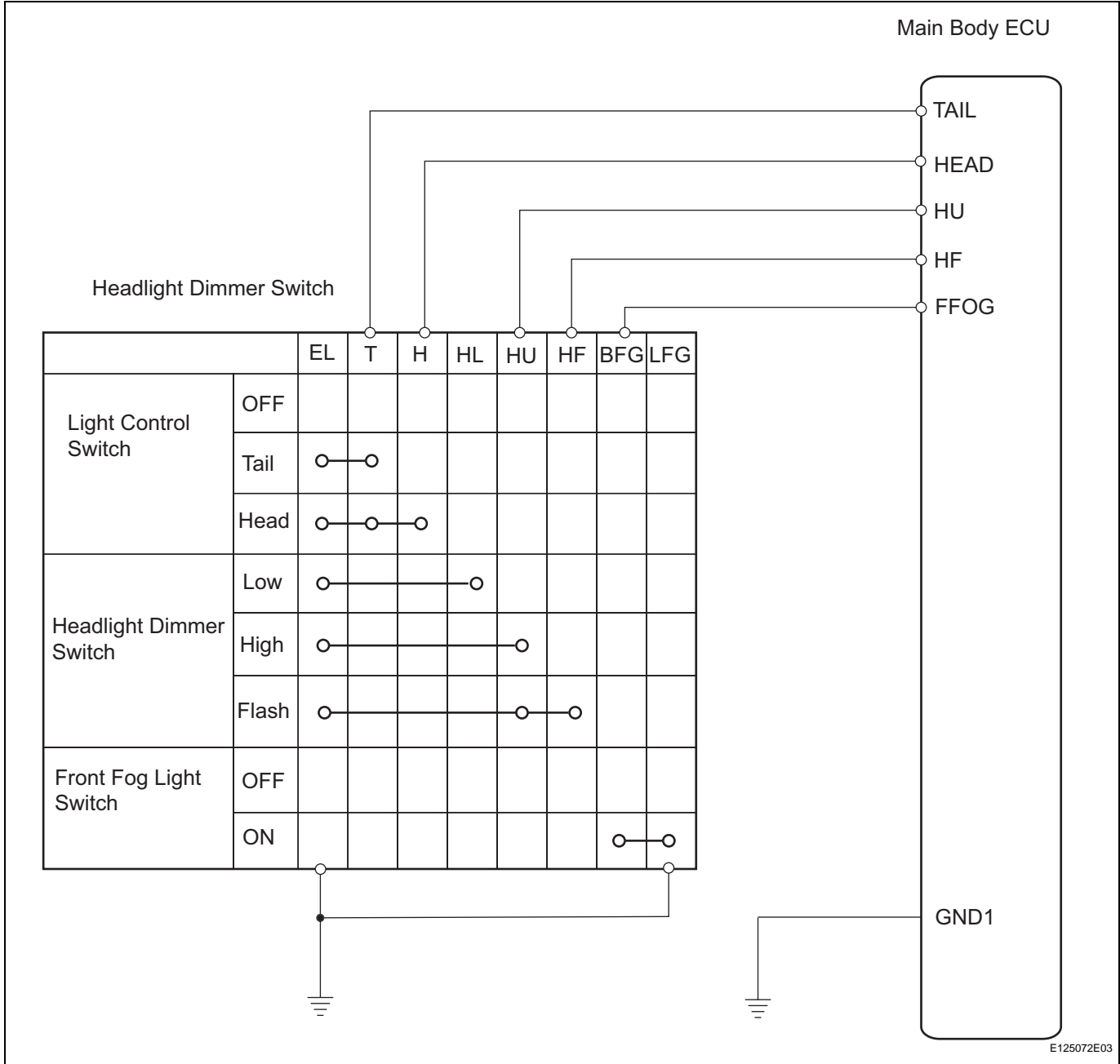


Light Control Switch Circuit

DESCRIPTION

This circuit detects the state of the headlight dimmer switch.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 READ VALUE OF INTELLIGENT TESTER (MAIN BODY ECU)

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch ON and press the intelligent tester main switch ON.

- (c) Select the items below in the DATA LIST, and read the displays on the intelligent tester.

Main body ECU

| Item | Measurement / Display (Range) | Normal Condition | Diagnostic Note |
|---------------------|--|--|-----------------|
| DIMMER SW | Headlight dimmer switch signal / ON or OFF | ON: Headlight dimmer switch is in HI or FLASH position OFF: Headlight dimmer switch is in LO position | - |
| PASSING LIGHT SW | Passing light switch signal / ON or OFF | ON: Headlight dimmer switch is in FLASH position OFF: Headlight dimmer switch is in except FLASH position | - |
| FRONT FOG LIGHT SW | Front fog light switch signal / ON or OFF | ON: Front fog light switch is in ON position OFF: Front fog light switch is in OFF position | - |
| HEADLIGHT SW | Headlight control switch signal (HEAD) / ON or OFF | ON: Light control switch is in HEAD position OFF: Light control switch is in except HEAD position | - |
| HEADLIGHT SW (Tail) | Headlight control switch signal (TAIL) / ON or OFF | ON: Light control switch is in TAIL or HEAD position OFF: Light control switch is in except OFF position | - |

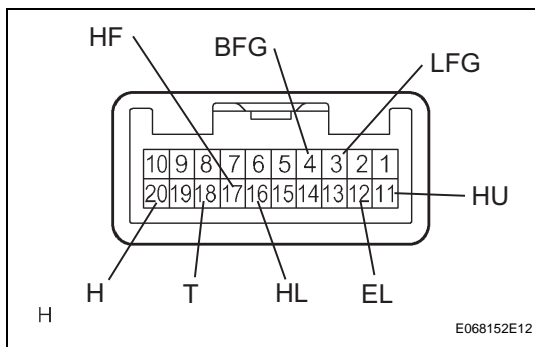
OK:

ON is displayed on the intelligent tester screen.

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

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2 INSPECT HEADLIGHT DIMMER SWITCH



- (a) Remove the headlight dimmer switch.
(b) Measure the resistance of the switch.

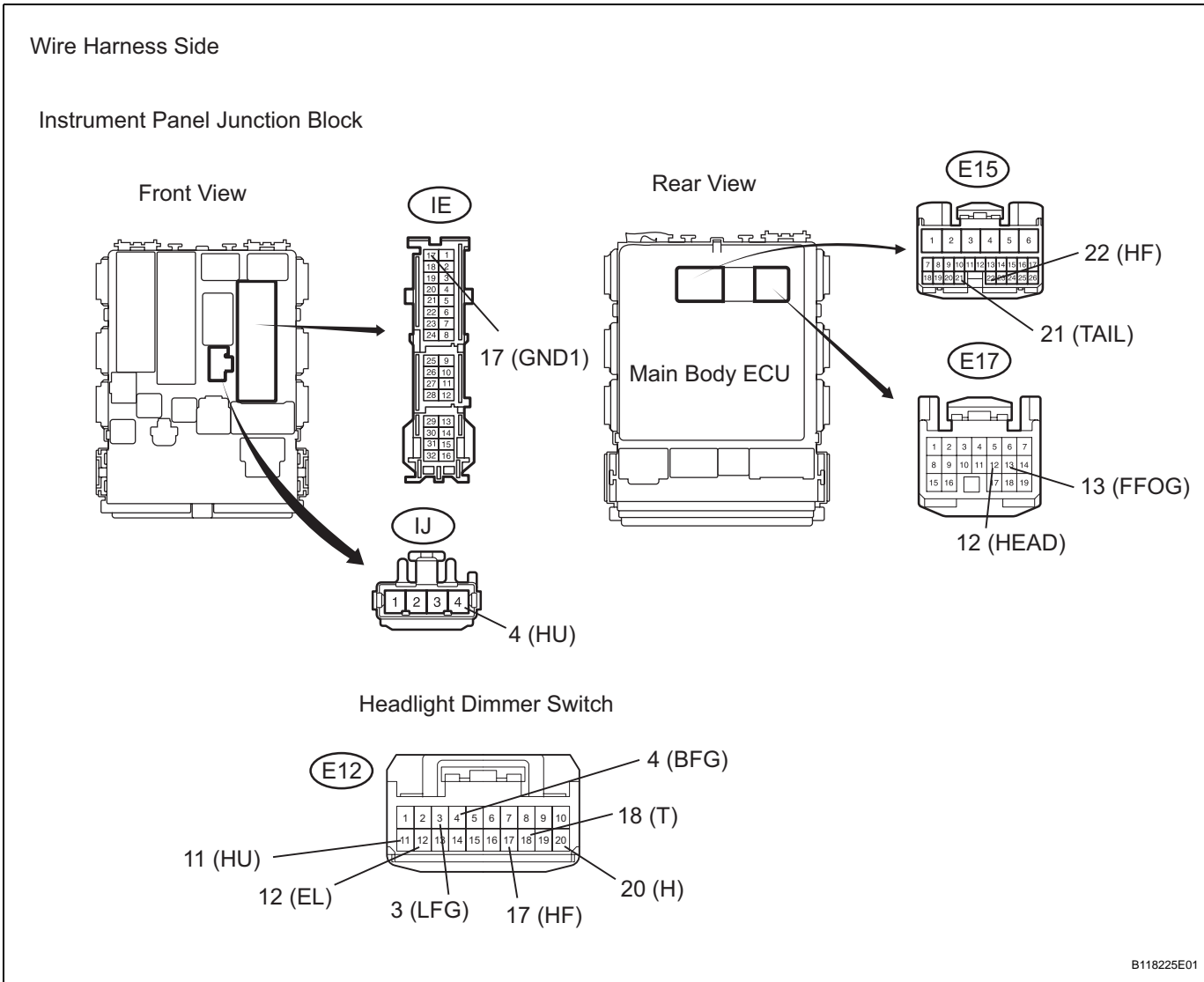
Standard resistance

| Tester Connection | Condition | Specified Condition |
|-------------------|----------------------|---------------------|
| 18 (T) - 12 (EL) | OFF | 10 kΩ or higher |
| 18 (T) - 12 (EL) | TAIL | Below 1 Ω |
| 20 (H) - 12 (EL) | OFF | 10 kΩ or higher |
| 20 (H) - 12 (EL) | HEAD | Below 1 Ω |
| 16 (HL) - 12 (EL) | HIGH or FLASH | 10 kΩ or higher |
| 16 (HL) - 12 (EL) | LOW | Below 1 Ω |
| 11 (HU) - 12 (EL) | LOW or FLASH | 10 kΩ or higher |
| 11 (HU) - 12 (EL) | HIGH | Below 1 Ω |
| 17 (HF) - 12 (EL) | LOW or HIGH | 10 kΩ or higher |
| 17 (HF) - 12 (EL) | FLASH | Below 1 Ω |
| 4 (BFG) - 3 (LFG) | Fog light switch OFF | 10 kΩ or higher |
| 4 (BFG) - 3 (LFG) | Fog light switch ON | Below 1 Ω |

NG → **REPLACE HEADLIGHT DIMMER SWITCH ASSEMBLY**

OK

3 CHECK WIRE HARNESS (MAIN BODY ECU - DIMMER SWITCH AND BODY GROUND)



- (a) Disconnect the E12 headlight dimmer switch connector.
- (b) Disconnect the IE and IJ instrument panel junction block connectors.
- (c) Disconnect the E15 and E17 main body ECU connectors.
- (d) Measure the resistance of the wire harness side connectors.

Standard resistance

| Tester Connection | Specified Condition |
|---|---------------------|
| E15-22 (HF) - E12-17 (HF) | Below 1 Ω |
| E15-22 (HF) or E12-17 (HF) - Body ground | 10 kΩ or higher |
| E15-21 (TAIL) - E12-18 (T) | Below 1 Ω |
| E15-21 (TAIL) or E12-18 (T) - Body ground | 10 kΩ or higher |
| E17-12 (HEAD) - E12-20 (H) | Below 1 Ω |

| Tester Connection | Specified Condition |
|--|-------------------------|
| E17-12 (HEAD) or E12-20 (H) - Body ground | 10 k Ω or higher |
| E17-13 (FFOG) - E12-4 (BFG) | Below 1 Ω |
| E17-13 (FFOG) or E12-4 (BFG) - Body ground | 10 k Ω or higher |
| IJ-4 (HU) - E12-11 (HU) | Below 1 Ω |
| IJ-4 (HU) or E12-11 (HU) - Body ground | 10 k Ω or higher |
| E12-12 (EL) - Body ground | Below 1 Ω |
| E12-3 (LFG) - Body ground | Below 1 Ω |
| IE-17 (GND1) - Body ground | Below 1 Ω |

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

REPLACE INSTRUMENT PANEL JUNCTION BLOCK (MAIN BODY ECU)