

<b>DTC</b>	<b>B1244</b>	<b>LIGHT SENSOR CIRCUIT MALFUNCTION</b>
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## CIRCUIT DESCRIPTION

This DTC is output when failure in the light sensor circuit is detected.

DTC No.	DTC Detecting Condition	Trouble Area
B1244	<ul style="list-style-type: none"> <li>• Malfunction of light sensor</li> <li>• Open or short of light sensor circuit</li> </ul>	<ul style="list-style-type: none"> <li>• Automatic light control sensor</li> <li>• Harness or connector</li> <li>• Driver side junction block assy</li> </ul>



### INSPECTION PROCEDURE

#### 1 CHECK LIGHT

(a) Check that the headlamp and the tail lamp comes on.

**NG** FLOW CHART (GO TO FLOW CHART OF HEADLIGHT OR TAILLIGHT)

**OK**

#### 2 READ VALUE OF HAND-HELD TESTER

- (a) Connect the hand-held tester to DLC3.
- (b) Turn the ignition switch to ON and push the hand-held tester main SW ON.
- (c) Select the item "AUTO LIGHT SW" in the DATA LIST, and read its value displayed on the hand-held tester.

**OK:**

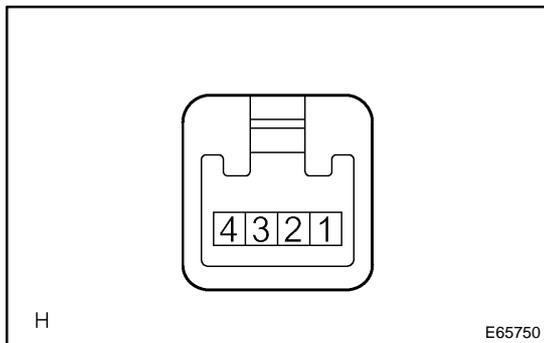
**Light control SW AUTO → ON**

**Light control SW except AUTO → OFF**

**NG** Go to step 5

**OK**

#### 3 CHECK AUTOMATIC LIGHT CONTROL SENSOR



- (a) Measure voltage between terminals as shown in the chart below.
- (b) Check the continuity between terminal 3 (CLTE) and body ground as shown in the chart below.
- (c) Using an oscilloscope, check that signal waveform appears between terminals.

**Standard:**

Terminal No. (Symbol)	Tester connection	Condition	Specified condition
1 (CLTB)	1 - 3	Constant	10 - 14 V
3 (CLTE)	3 - Body ground	Constant	Continuity
4 (CLTS)	4 - 3	IG SW ON Dimmer SW AUTO	Signal waveform appears depending on outside brightness

**NG** REPLACE AUTOMATIC LIGHT CONTROL SENSOR

**OK**

<b>4</b>	<b>CHECK HARNESS AND CONNECTOR(BETWEEN MULTIPLEX NETWORK BODY ECU AND AUTOMATIC LIGHT CONTROL SENSOR)</b>
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- (a) Check that signal waveform appears between terminal B6-4 (CLTS) and B6-21 (CLTE) of the multiplex network body ECU.  
**Standard: Bar appears**
- (b) Measure voltage between terminals B6-6 (CLTB) and B6-21 (CLTE) of the multiplex network body ECU.  
**Standard: 10 - 14 V**
- (c) Check the continuity between terminal B6-21 (CLTE) of the multiplex network body ECU and body ground.  
**Standard: There is continuity**

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<b>REPAIR OR REPLACE HARNESS OR CONNECTOR</b>
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<b>OK</b>
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<b>CHECK AND REPLACE MULTIPLEX NETWORK BODY ECU</b>
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<b>5</b>	<b>CHECK HARNESS AND CONNECTOR(BETWEEN HEADLAMP DIMMER SWITCH ASSY AND MULTIPLEX NETWORK BODY ECU)</b>
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- (a) Check for open and short circuit in harness and connector (See page [01-35](#) ).

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<b>REPAIR OR REPLACE HARNESS OR CONNECTOR</b>
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<b>OK</b>
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<b>REPLACE HEADLAMP DIMMER SWITCH ASSY</b>
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