

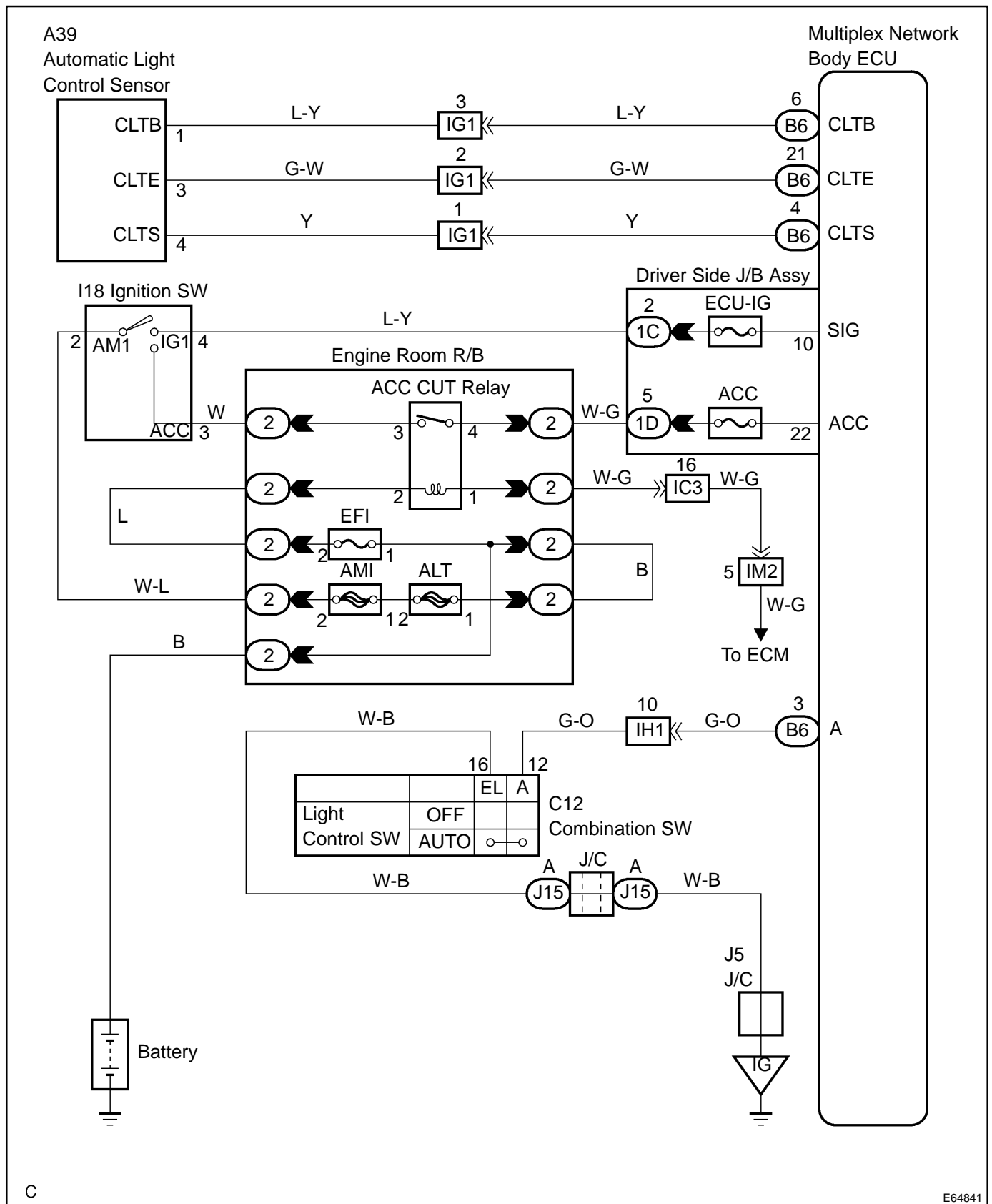
DTC	B1244	LIGHT SENSOR CIRCUIT MALFUNCTION
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CIRCUIT DESCRIPTION

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">• Malfunction of light sensor• Open or short of light sensor circuit	<ul style="list-style-type: none">• Automatic light control sensor• Harness or connector• Driver side junction block assy

WIRING DIAGRAM



E64841

INSPECTION PROCEDURE

1 CHECK LIGHT

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

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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

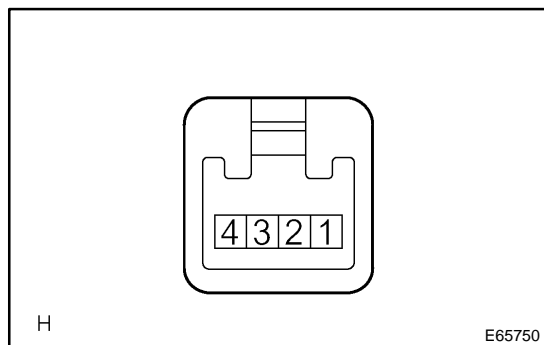
Light control SW except AUTO → OFF

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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

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REPLACE AUTOMATIC LIGHT CONTROL SENSOR

OK

4 CHECK HARNESS AND CONNECTOR(BETWEEN MULTIPLEX NETWORK BODY ECU AND AUTOMATIC LIGHT CONTROL SENSOR)

- (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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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE MULTIPLEX NETWORK BODY ECU**5 CHECK HARNESS AND CONNECTOR(BETWEEN HEADLAMP DIMMER SWITCH ASSY AND MULTIPLEX NETWORK BODY ECU)**

- (a) Check for open and short circuit in harness and connector (See page [01-35](#)).

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE HEADLAMP DIMMER SWITCH ASSY