

# AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

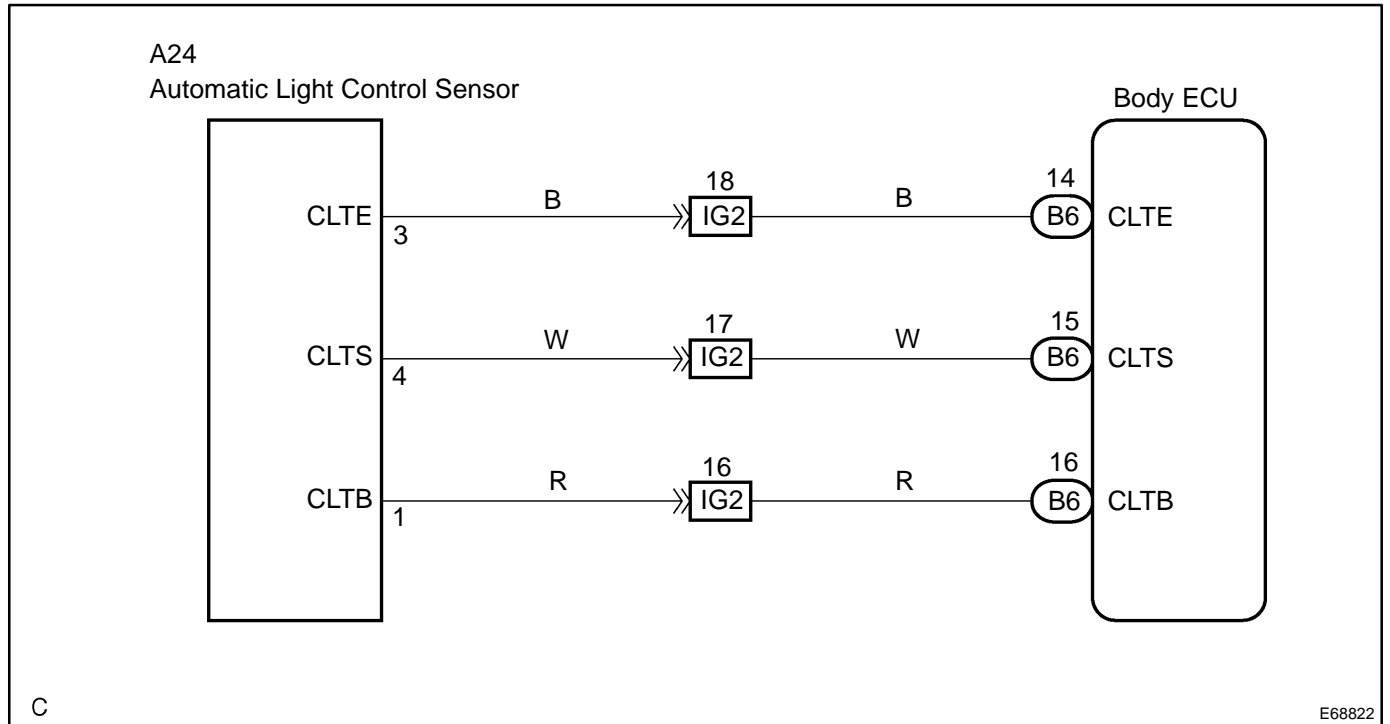
## CIRCUIT DESCRIPTION

The multiplex network body ECU receives signals from the automatic light control sensor.

HINT:

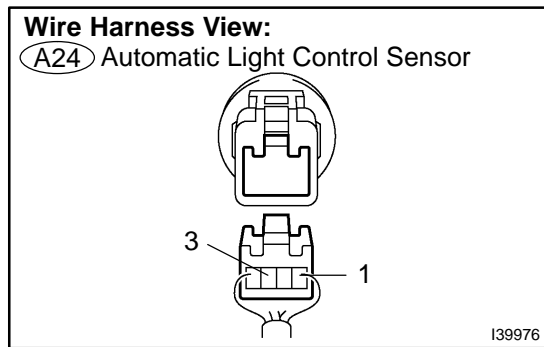
A DTC code is output when the automatic light control sensor is malfunctioning or there is an open or short circuit in the automatic light control sensor (see page 05-1691).

## WIRING DIAGRAM



## INSPECTION PROCEDURE

<b>1</b>	<b>CHECK HARNESS AND CONNECTOR(AUTOMATIC LIGHT CONTROL SENSOR POWER SOURCE CIRCUIT)</b>
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- (a) Disconnect the automatic light control sensor connector.
- (b) Measure the voltage according to the value(s) in the table below.

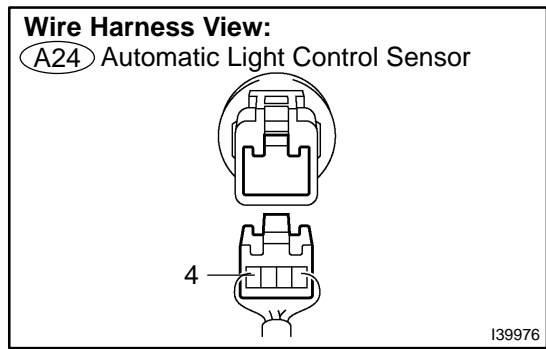
**Standard:**

Tester connection	Condition	Specified condition
A24-1 - A24-3	Power switch ON (IG)	10 to 14 V

**NG** → **Go to step 4**

**OK**

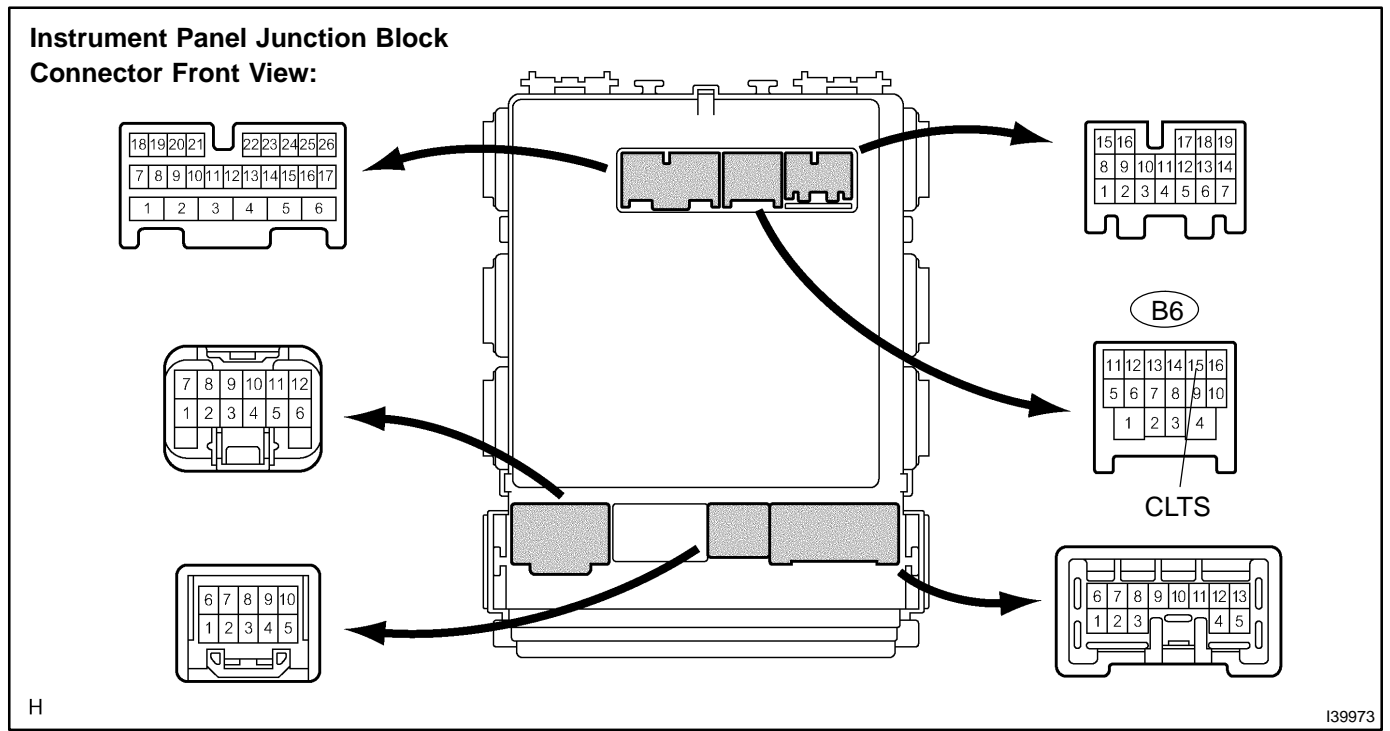
**2 CHECK HARNESS AND CONNECTOR(INSTRUMENT PANEL JUNCTION BLOCK ASSY - AUTOMATIC LIGHT CONTROL SENSOR)**



- (a) Disconnect the B6 connector from the multiplex network body ECU.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A24-4 - B6-15	Always	Below 1 Ω



**NG** → REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

**3 REPLACE AUTOMATIC LIGHT CONTROL SENSOR**

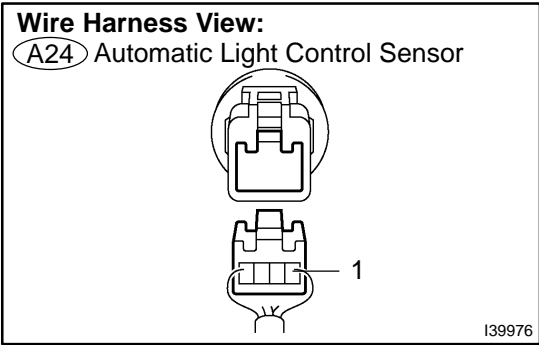
OK: Returns to normal operation.

**NG** → PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1677)

**OK**

**END**

**4 CHECK HARNESS AND CONNECTOR(INSTRUMENT PANEL JUNCTION BLOCK ASSY - AUTOMATIC LIGHT CONTROL SENSOR)**



(a) Measure the voltage according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A24-1 - Body ground	Power switch ON (IG)	10 to 14 V

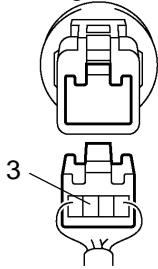
**NG** Go to step 6

**OK**

**5 CHECK HARNESS AND CONNECTOR(INSTRUMENT PANEL JUNCTION BLOCK ASSY - AUTOMATIC LIGHT CONTROL SENSOR)**

**Wire Harness View:**

(A24) Automatic Light Control Sensor



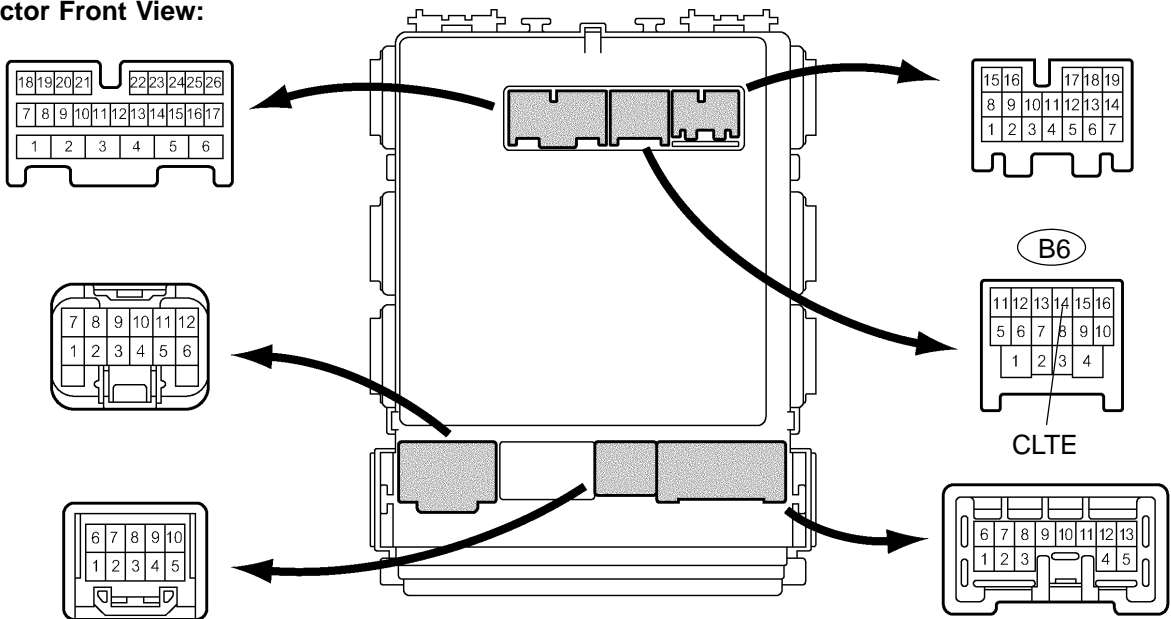
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- (a) Disconnect the B6 connector from the instrument panel junction block.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A24-3 - B6-14	Always	Below 1 Ω

**Instrument Panel Junction Block Connector Front View:**



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**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

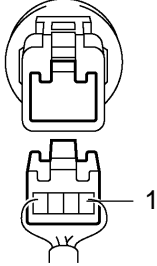
**OK**

**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1677)**

**6 CHECK HARNESS AND CONNECTOR(INSTRUMENT PANEL JUNCTION BLOCK ASSY - AUTOMATIC LIGHT CONTROL SENSOR)**

**Wire Harness View:**

(A24) Automatic Light Control Sensor



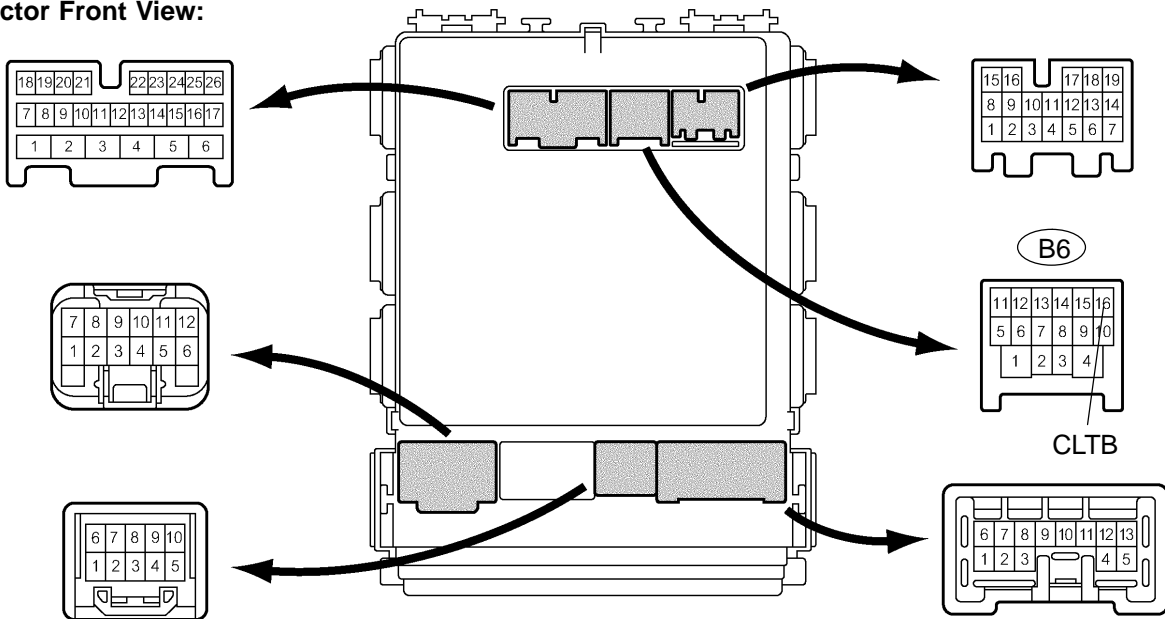
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- (a) Disconnect the B6 connector from the instrument panel junction block assy.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A24-1 - B6-16	Always	Below 1 Ω

**Instrument Panel Junction Block Connector Front View:**



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**NG** REPAIR OR REPLACE HARNESS OR CONNECTOR

**OK**

**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1677)**