

AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

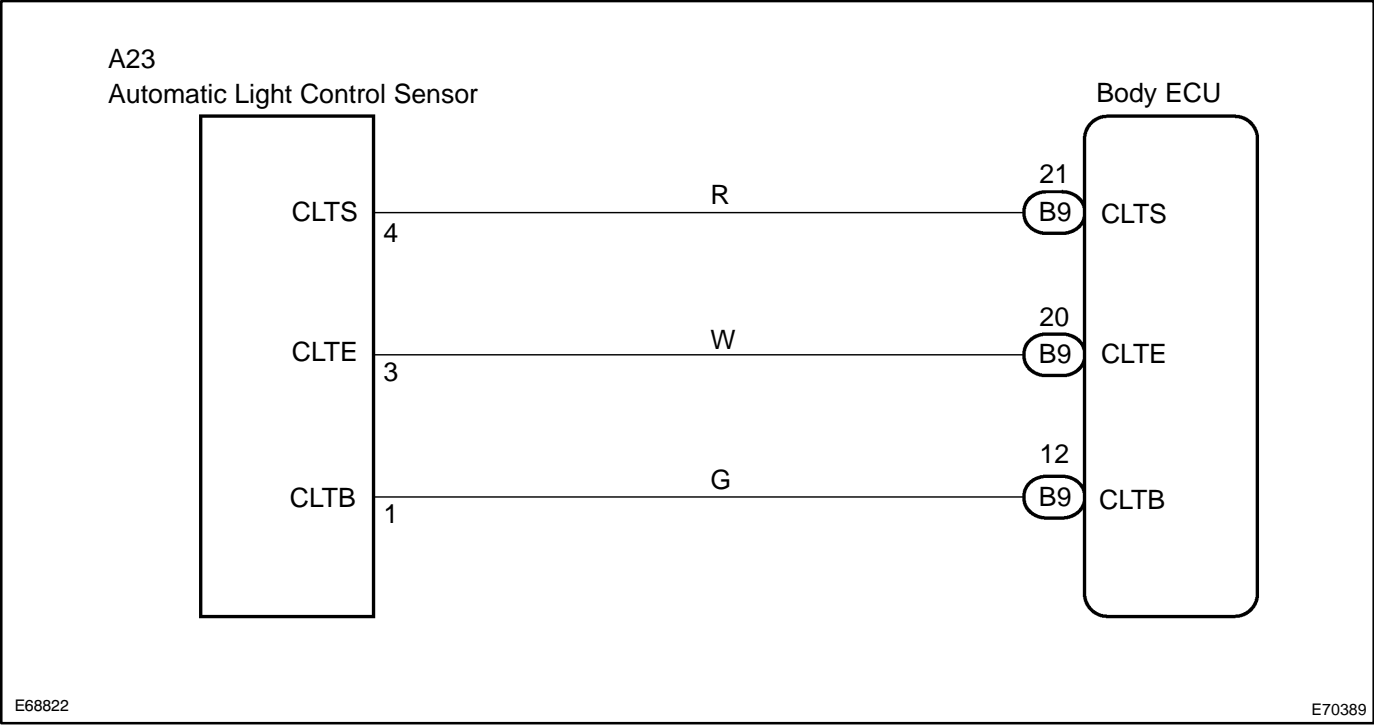
CIRCUIT DESCRIPTION

The multiplex network body ECU receives a signal 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 05-1551 ).

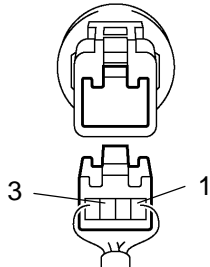
WIRING DIAGRAM



## INSPECTION PROCEDURE

**1 CHECK HARNESS AND CONNECTOR(AUTOMATIC LIGHT CONTROL SENSOR POWER SOURCE CIRCUIT)**
**Wire Harness View:**

(A23) Automatic Light Control Sensor



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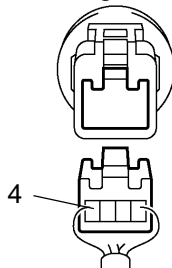
- (a) Disconnect the automatic light control sensor connector.  
 (b) Measure the voltage according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A23-1 - A23-3	Ignition switch ON	10 to 14 V

**NG****Go to step 4****OK**
**2 CHECK HARNESS AND CONNECTOR(MULTIPLEX NETWORK BODY ECU - AUTOMATIC LIGHT CONTROL SENSOR)**
**Wire Harness View:**

(A23) Automatic Light Control Sensor

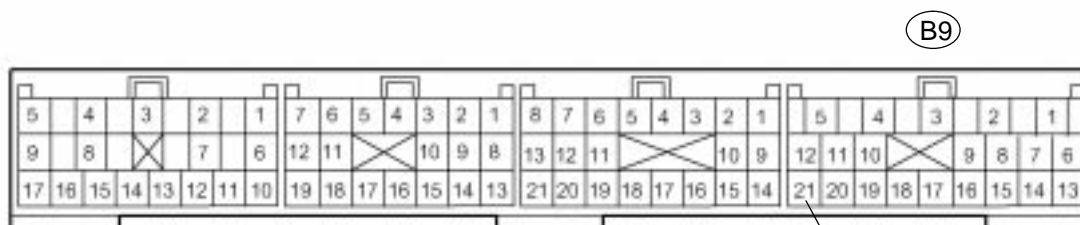


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- (a) Disconnect the B9 connector from the multiplex network body ECU.  
 (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A23-4 - B9-21	Always	Below 1 $\Omega$

**Multiplex Network Body ECU  
 Connector Front View:**


B9-21

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**NG****REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**

3

REPLACE AUTOMATIC LIGHT CONTROL SENSOR

OK: Return to normal condition.

NG

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1538 )

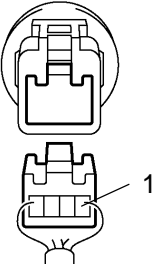
OK

END

4

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

Wire Harness View:  
A23 Automatic Light Control Sensor



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

Standard:

Tester connection	Condition	Specified condition
A23-1 - Body ground	Ignition switch ON	10 to 14 V

NG

Go to step 6

OK

5

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

**Wire Harness View:**  
**A23** Automatic Light Control Sensor

- (a) Disconnect the B9 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
A23-3 - B9-20	Always	Below 1 Ω

**Multiplex Network Body ECU**  
**Connector Front View:**

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

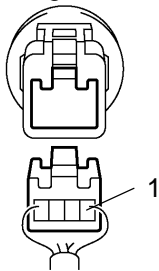
OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-1538 )

6

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

**Wire Harness View:**  
**A23** Automatic Light Control Sensor

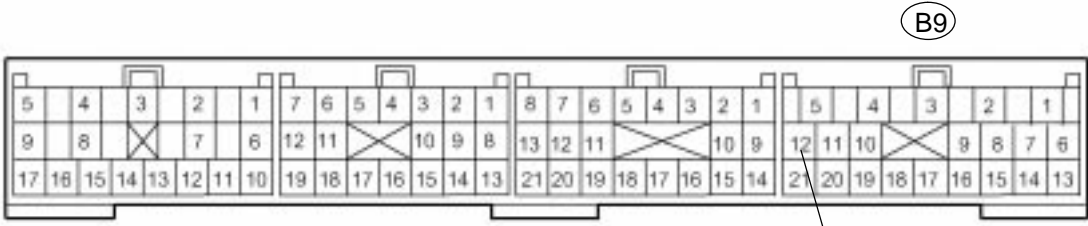


- (a) Disconnect the B9 connector from the multiplex network body ECU.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester connection	Condition	Specified condition
A23-1 - B9-12	Always	Below 1 Ω

**Multiplex Network Body ECU**  
**Connector Front View:**



NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE  
(SEE PAGE 05-1538 )