AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

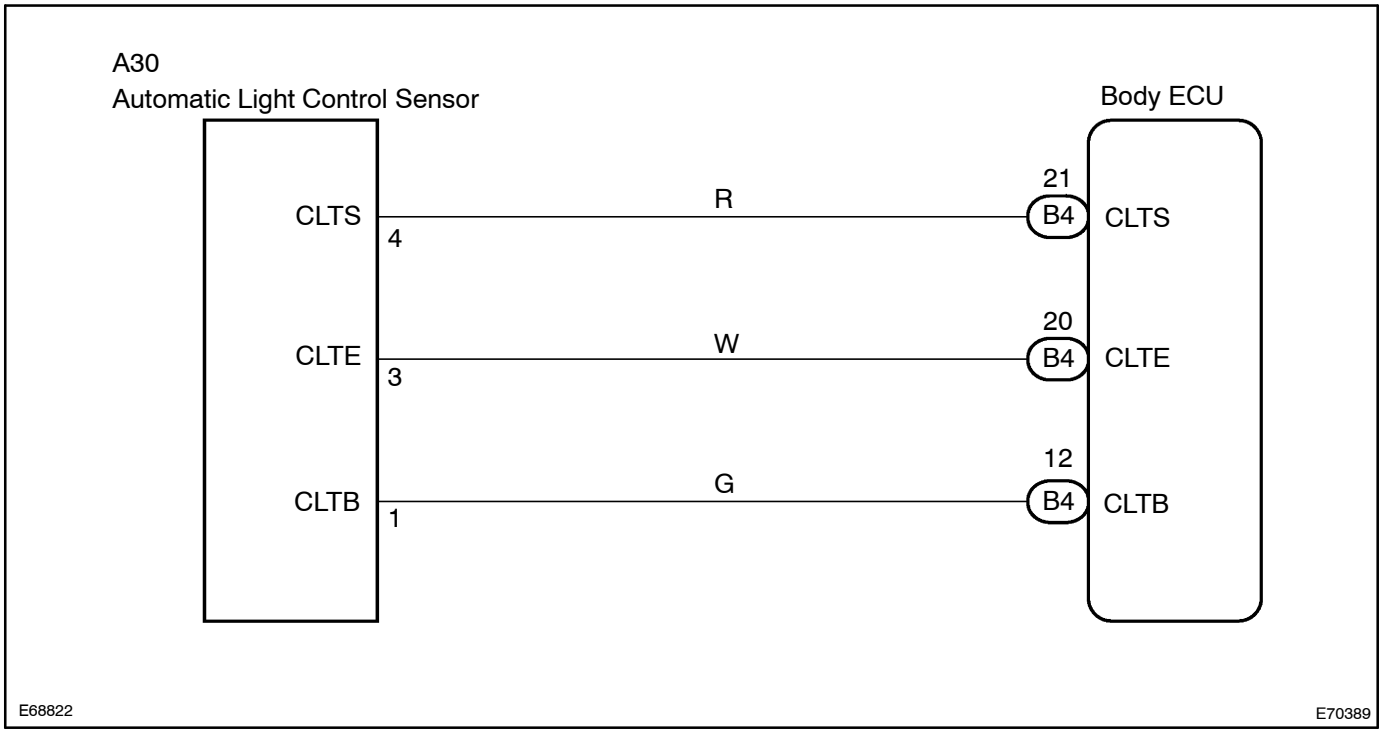
CIRCUIT DESCRIPTION

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 05–762).

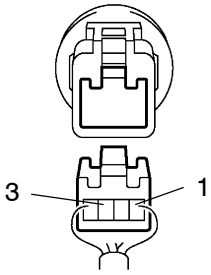
WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(AUTOMATIC LIGHT CONTROL SENSOR POWER SOURCE CIRCUIT)

Wire Harness View:
(A30) Automatic Light Control Sensor



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

Standard:

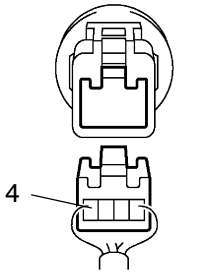
Tester connection	Condition	Specified condition
A30–1 – A30–3	Ignition switch ON	10 to 14 V

NG → **Go to step 4**

OK

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

Wire Harness View:
(A30) Automatic Light Control Sensor

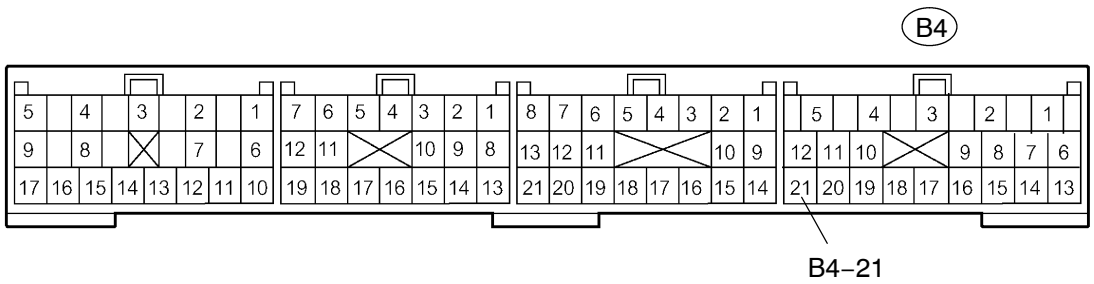


(a) Disconnect the B4 connector from the multiplex network body ECU.
(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A30–4 – B4–21	Always	Below 1 Ω
A30–4 – Body ground	Always	10 kΩ or higher

Multiplex Network Body ECU
Connector Front View:



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

OK

3	REPLACE AUTOMATIC LIGHT CONTROL SENSOR

OK: Return to normal condition.

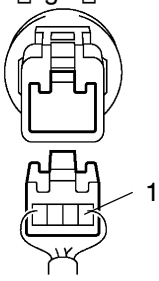
NG → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–751)**

OK

END

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

Wire Harness View:
A30 Automatic Light Control Sensor



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

Standard:

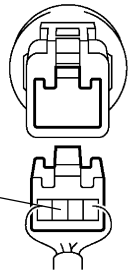
Tester connection	Condition	Specified condition
A30–1 – Body ground	Ignition switch ON	10 to 14 V

NG → **Go to step 6**

OK

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

Wire Harness View:
A30 Automatic Light Control Sensor



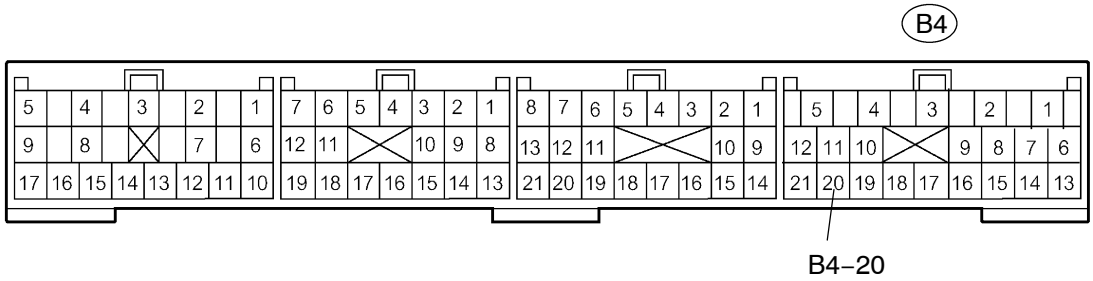
(a) Disconnect the B4 connector from the multiplex network body ECU.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A30–3 – B4–20	Always	Below 1 Ω

Multiplex Network Body ECU
Connector Front View:



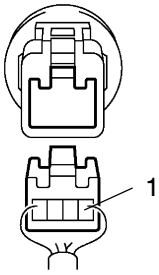
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–751)

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

Wire Harness View:
A30 Automatic Light Control Sensor



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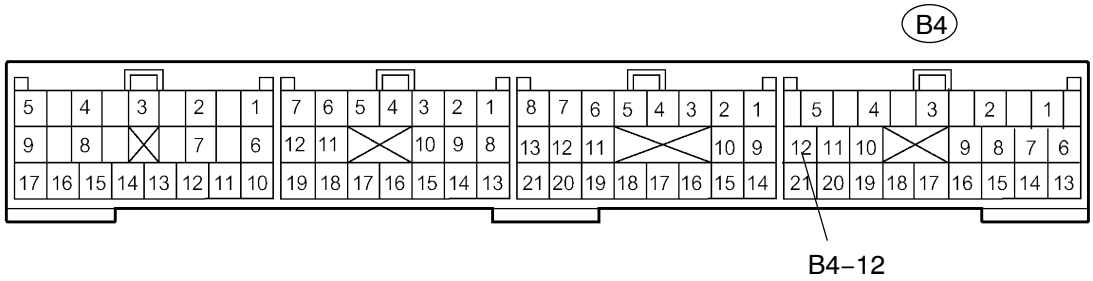
(a) Disconnect the B4 connector from the multiplex network body ECU.

(b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester connection	Condition	Specified condition
A30–1 – B4–12	Always	Below 1 Ω
A30–1 – Body ground	Always	10 kΩ or higher

Multiplex Network Body ECU
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 05–751)