

INSPECTION

1. INSPECT LIGHT CONTROL SWITCH CONTINUITY

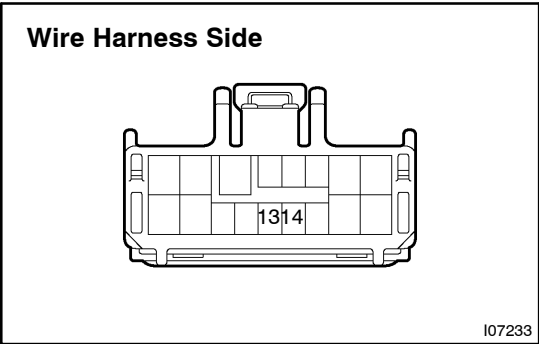
Switch position	Tester connection	Specified condition
OFF	–	No continuity
TAIL	14 – 16	Continuity
HEAD	13 – 14 – 16	Continuity
AUTO	12 – 16	Continuity

If continuity is not as specified, replace the switch.

2. INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Low beam	16 – 17	Continuity
High beam	7 – 16	Continuity
Flash	7 – 8 – 16	Continuity

If continuity is not as specified, replace the switch.

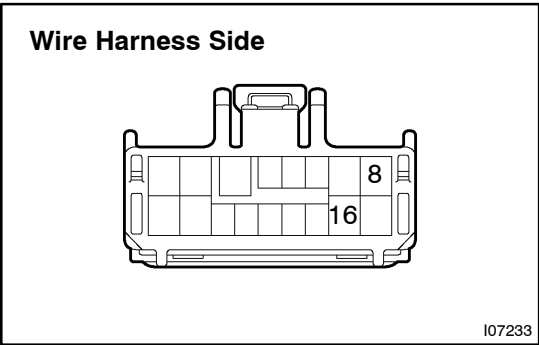


3. INSPECT LIGHT CONTROL SWITCH CIRCUIT  
Connector disconnected:

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
13 – Ground	Constant	Battery positive voltage
14 – Ground	Constant	Battery positive voltage

If circuit is not as specified, inspect the wire harness.



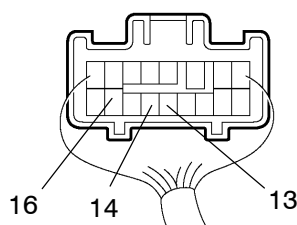
4. INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT  
Connector disconnected:

Disconnect the connector from the switch and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
16 – Ground	Constant	Continuity
8 – Ground	Constant	Battery positive voltage

If circuit is not as specified, inspect the wire harness.

From Back Side



I07234

## 5. INSPECT LIGHT CONTROL SWITCH CIRCUIT

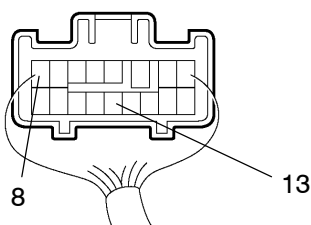
### Connector connected:

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
16 – Ground	Constant	Continuity
13 – Ground	Light control switch OFF or TAIL	Battery positive voltage
13 – Ground	Light control switch HEAD	No voltage
14 – Ground	Light control switch OFF	Battery positive voltage
14 – Ground	Light control switch TAIL or HEAD	No voltage

If circuit is not as specified, inspect the wire harness.

From Back Side



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## 6. INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT

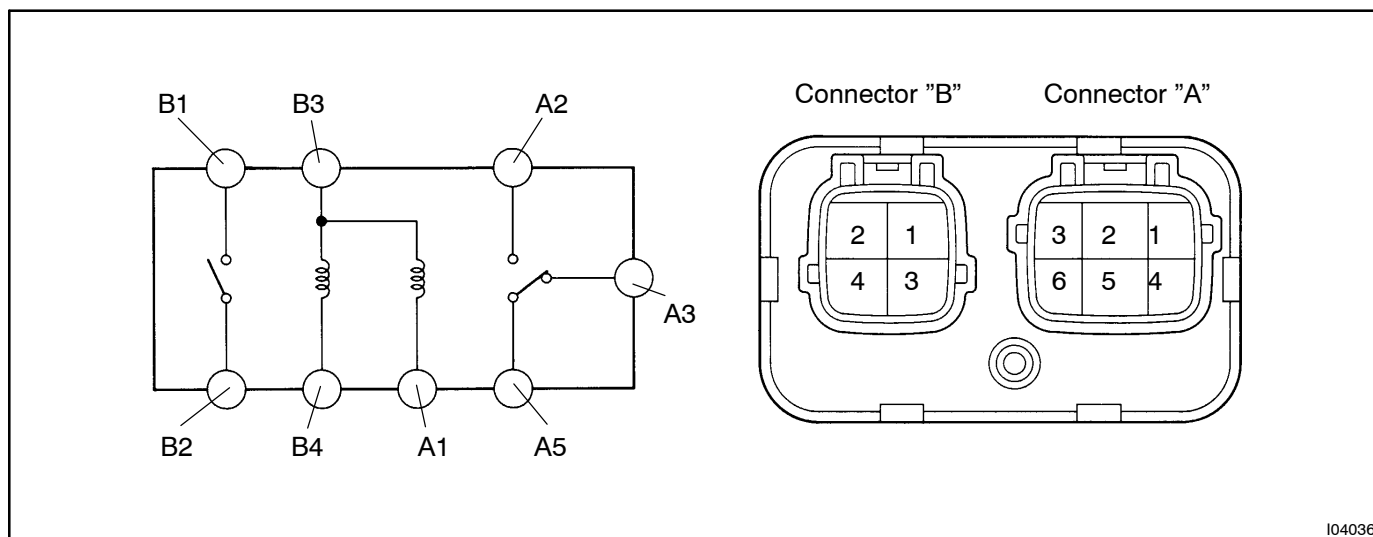
### Connector connected:

Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
8 – Ground	Headlight dimmer switch FLASH	No voltage
8 – Ground	Headlight dimmer switch LOW or HIGH	Battery positive voltage
13 – Ground	Light control switch HEAD and dimmer switch LOW and fog light switch ON	No voltage
13 – Ground	Light control switch HEAD and dimmer switch HIGH or FLASH and fog light switch ON	Battery positive voltage

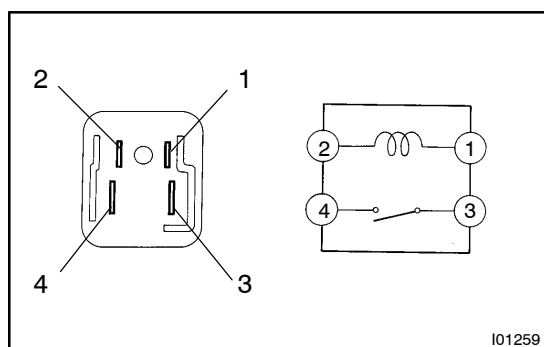
If circuit is not as specified, inspect the wire harness.

## 7. INSPECT DAYTIME RUNNING LIGHT NO.3 AND NO.4 RELAY CONTINUITY



Tester connection	Condition	Specified condition
A1 – B3	Constant	Continuity
A3 – A5	Constant	Continuity
B3 – B4	Constant	Continuity
A2 – A5	Apply battery positive voltage between terminals A1 and B3.	Continuity
B1 – B2	Apply battery positive voltage between terminals B3 and B4.	Continuity

If continuity is not as specified, replace the relay.

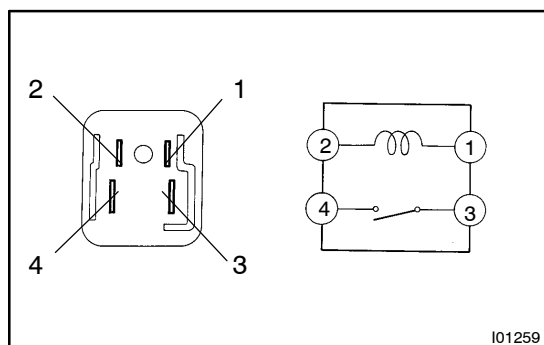


## 8. INSPECT HEADLIGHT CONTROL RELAY CONTINUITY

Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminals 1 and 2.	3 – 4	Continuity

If continuity is not as specified, replace the relay.

## 9. INSPECT HEADLIGHT CONTROL RELAY CIRCUIT (See page BE-17)

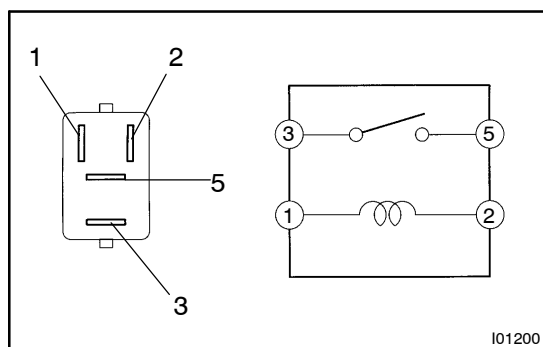


## 10. INSPECT HEADLIGHT DIMMER ( DAYTIME RUNNING LIGHT NO.2) RELAY CONTINUITY

Condition	Tester connection	Specified condition
Constant	1 – 2	Continuity
Apply B+ between terminals 1 and 2.	3 – 4	Continuity

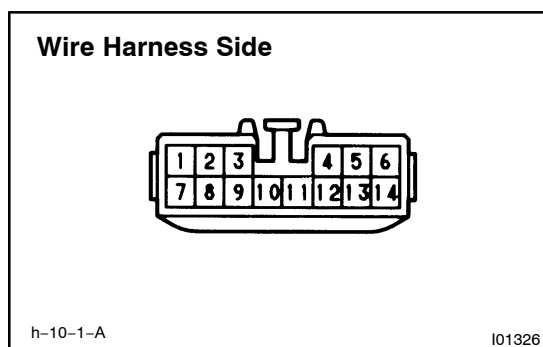
If continuity is not as specified, replace the relay.

## 11. INSPECT HEADLIGHT DIMMER ( DAYTIME RUNNING LIGHT NO.2) RELAY CIRCUIT(See page BE-17)

**12. INSPECT TAILLIGHT CONTROL RELAY CONTINUITY**

Condition	Tester connection	Specified condition
Constant	1 - 2	Continuity
Apply B+ between terminals 1 and 2.	3 - 5	Continuity

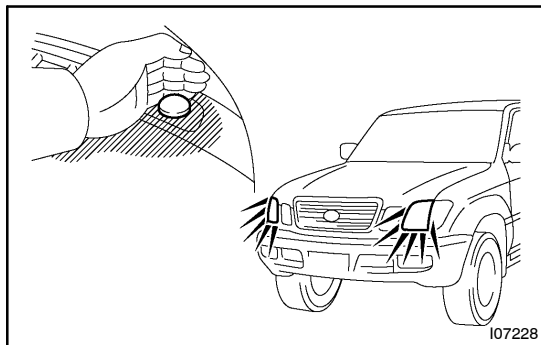
If continuity is not as specified, replace the relay.

**13. INSPECT TAILLIGHT CONTROL RELAY CIRCUIT(See page BE-17)****14. INSPECT DAYTIME RUNNING LIGHT MAIN RELAY CIRCUIT**

Disconnect the connector from the relay and inspect the connector on the wire harness side.

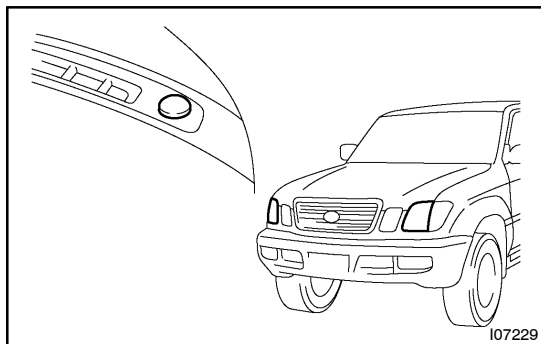
Tester connection	Condition	Specified condition
2 - Ground	Light control switch OFF	No continuity
2 - Ground	Light control switch TAIL or HEAD	Continuity
4 - Ground	Light control switch OFF	No continuity
4 - Ground	Light control switch TAIL or HEAD	Continuity
6 - Ground	Headlight dimmer switch FLASH	Continuity
7 - Ground	Light control switch OFF	No continuity
7 - Ground	Light control switch TAIL	Continuity
10 - Ground	Constant	Continuity
13 - Ground	Headlight dimmer switch FLASH or HI	Continuity
3 - Ground	Constant	Battery positive voltage
8 - Ground	Ignition switch OFF	No voltage
8 - Ground	Ignition switch ON	Battery positive voltage
9 - Ground	Terminal 3 ground	Battery positive voltage
11 - Ground	Rear fog light switch ON, terminal 3 ground	Battery positive voltage
12 - Ground	Constant	Battery positive voltage
14 - Ground	Terminal 5 ground	Battery positive voltage

If circuit is specified, try replacing the relay with a new one.  
If circuit is not as specified, inspect the circuits connected to other parts.



### 15. INSPECT AUTOMATIC LIGHT CONTROL AUTO ON:

- (a) Turn the ignition switch ON.
- (b) Turn the light control switch to AUTO.
- (c) Gradually cover the top of the sensor.
- (d) Check the accessory lights and the headlights should turn ON.



### 16. INSPECT AUTOMATIC LIGHT CONTROL AUTO OFF:

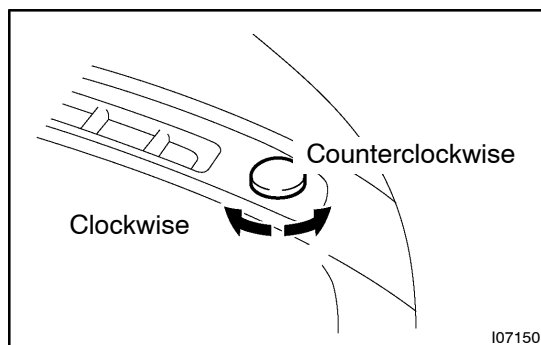
- (a) Gradually expose the sensor.
- (b) Check the headlights and the accessory lights should turn OFF.

### 17. INSPECT LIGHT-OFF CONDITION

- (a) Turn the ignition switch ON.
- (b) Gradually cover the top of the sensor.  
Lights auto ON:
- (c) Check that the lights go off under the following conditions.
  - (1) Light control switch is OFF.
  - (2) The area surrounding the sensor gets bright.
  - (3) The driver's door is opened with the ignition switch OFF.

### 18. INSPECT LIGHTS-ON CONDITION

- (a) Open the driver's door while the ignition switch is OFF.
- (b) Turn the light control switch to AUTO leaving the door open and cover the top of the sensor, and verify that the lights go on when the ignition switch is turned ON.

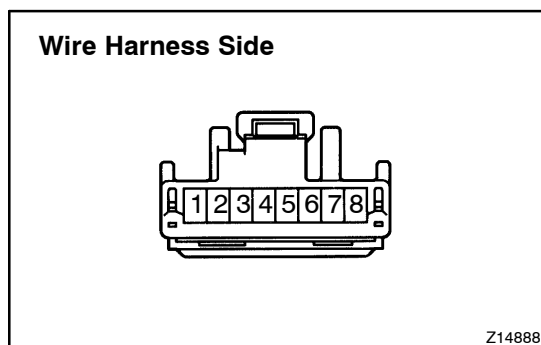


### 19. ADJUST AUTOMATIC LIGHT CONTROL SENSOR

- (a) Adjustment of the light control is performed by turning the sensitivity knob on the sensor.
- (b) This will be determined at what light condition the automatic control will take place.

If response is too quick, turn the knob clockwise.

If response is too slow, turn the knob counterclockwise.



### 20. INSPECT AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

#### Connector disconnected:

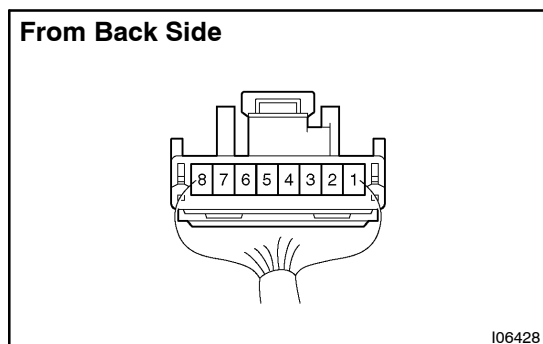
Disconnect the connector from the sensor and inspect the connector on the wire harness side, as shown in the table.

## BODY ELECTRICAL – HEADLIGHT AND TAILLIGHT SYSTEM

Tester connection	Condition	Specified condition
3 – Ground	Driver's door courtesy switch OFF	No continuity
3 – Ground	Driver's door courtesy switch ON	Continuity
5 – Ground	Headlight control switch HEAD	Continuity
6 – Ground	Headlight control switch AUTO	Continuity
7 – Ground	Headlight control switch TAIL	Continuity
1 – Ground	Ignition switch ON	Battery positive voltage
1 – Ground	Ignition switch LOCK or ACC	No voltage
2 – Ground	Constant	Battery positive voltage

If circuit is as specified, perform the inspection on the following page.

If the circuit is not as specified, inspect the circuit connected to other parts.



## 21. INSPECT AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

### Connector connected:

Connect the wire harness side connector to the sensor and inspect wire harness side connector from the back side, as shown.

### HINT:

- Ignition switch ON.
- Light control switch AUTO.
- Vehicle's surroundings are bright.

Tester connection	Condition	Specified condition
1 – Ground	Ignition switch ON	10 V or more
1 – Ground	Ignition switch OFF	1 V or less
3 – Ground	Door courtesy switch OFF	9 V or more
3 – Ground	Door courtesy switch ON	1 V or less
5 – Ground	Headlight dimmer switch FLASH	0.3 V or less
5 – Ground	Vehicle is under the direct sun light (Sensor is not covered.)	1.8 V or less
7 – Ground	Vehicle is under the direct sun light (Sensor is not covered.)	1.5 V or less

If circuit is as specified, try replacing the sensor with a new one.  
If the circuit is not as specified, inspect the circuit connected to other parts.