

INSPECTION

1. INSPECT LIGHT CONTROL SWITCH CONTINUITY

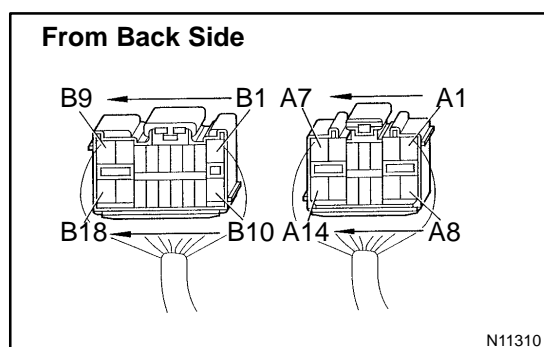
Switch position	Tester connection	Specified condition
OFF	—	No continuity
TAIL	B3 – B4	Continuity
HEAD	B3 – B4 – B13	Continuity
AUTO	B4 – B12	Continuity

If continuity is not as specified, replace the switch.

2. INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Flash	B7 – B9 – B18	Continuity
Low beam	B4 – B18	No continuity
High beam	B9 – B18	Continuity

If continuity is not as specified, replace the switch.



3. INSPECT COMBINATION SWITCH CIRCUIT

- Pull the spool body to forward and separate spool body from steering column.
- Connect the wire harness side connector to the combination switch and inspect the wire harness side connector from the back side, as shown.

Light Control Switch Circuit

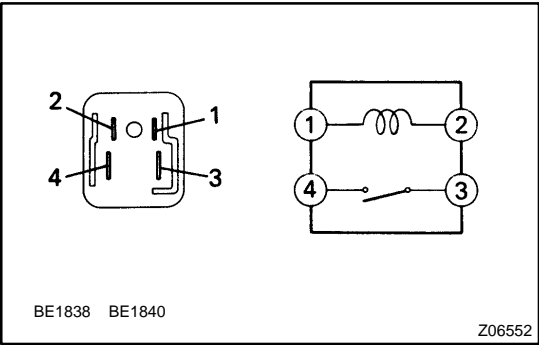
Tester connection	Condition	Specified condition
B4 – Ground	Constant	Continuity

Dimmer Switch Circuit

Tester connection	Condition	Specified condition
B18 – Ground	Constant	Continuity
*1 B7 – Ground	Constant	Battery positive voltage
*1 B9 – Ground	Light control switch OFF or TAIL	No voltage
*1 B9 – Ground	Light control switch HEAD	Battery positive voltage

*1: USA

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

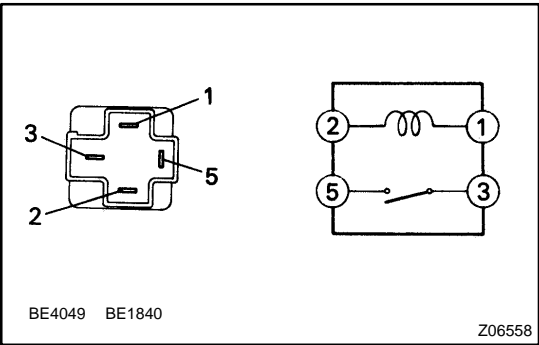


4. INSPECT HEADLIGHT CONTROL RELAY CONTINUITY

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.

5. INSPECT HEADLIGHT CONTROL RELAY CIRCUIT (See page BE-16)

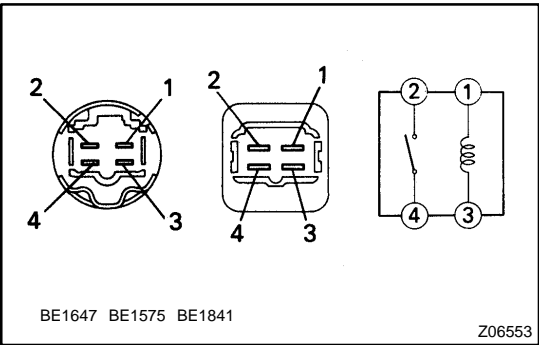


6. INSPECT TAILLIGHT CONTROL RELAY CONTINUITY

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

If continuity is not as specified, replace the relay.

7. INSPECT TAILLIGHT CONTROL RELAY CIRCUIT (See page BE-16)

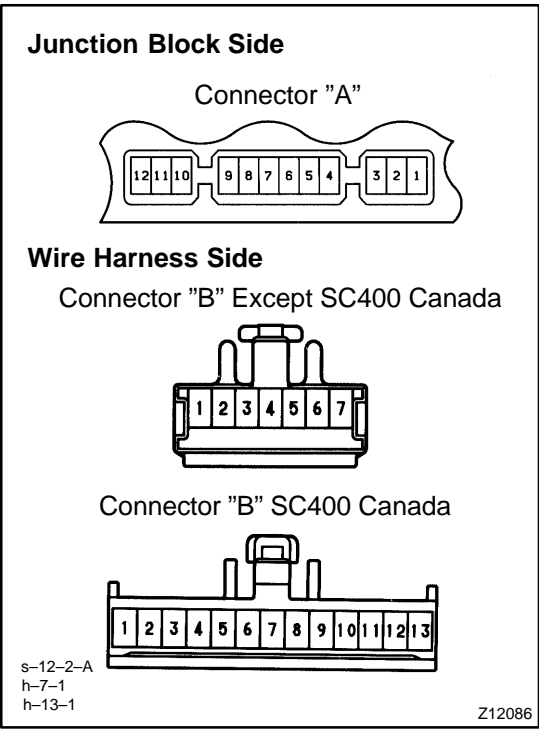


8. INSPECT HEADLIGHT DIMMER RELAY CONTINUITY

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

If continuity is not as specified, replace the relay.

9. INSPECT HEADLIGHT DIMMER RELAY CIRCUIT (See page BE-16)



10. Light Auto Turn Off System and Daytime Running Light System:

INSPECT INTEGRATION RELAY CIRCUIT

Remove the relay from the junction block and inspect the connectors on the wire harness and junction block side, as shown in the chart.

BODY ELECTRICAL – HEADLIGHT AND TAILLIGHT SYSTEM

USA:

Tester connection	Condition	Specified condition
A4 – Ground	Passenger's courtesy switch OFF	No continuity
A4 – Ground	Passenger's courtesy switch ON	Continuity
A5 – Ground	Ignition key removed	No continuity
A5 – Ground	Ignition key set	Continuity
A6 – Ground	Driver's courtesy switch OFF	No continuity
A6 – Ground	Driver's courtesy switch ON	Continuity
A8 – Ground	Seat belt FASTEN	No continuity
A8 – Ground	Seat belt UNFASTEN	Continuity
A10 – Ground	Constant	Continuity
B2 – Ground	Passenger's door LOCK	No continuity
B2 – Ground	Passenger's door UNLOCK	Continuity
B3 – Ground	Driver's door LOCK	No continuity
B3 – Ground	Driver's door UNLOCK	Continuity
B4 – Ground	Light control switch OFF	No continuity
B4 – Ground	Light control switch TAIL or HEAD	Continuity
B7 – Ground	Light control switch OFF or TAIL	No continuity
B7 – Ground	Light control switch HEAD	Continuity
A1 – Ground	Constant	Battery positive voltage
A2 – Ground	Constant	* Battery positive voltage
A7 – Ground	Ignition switch LOCK or ACC	No voltage
A7 – Ground	Ignition switch ON	Battery positive voltage
A9 – Ground	Ignition switch LOCK or ACC	No voltage
A9 – Ground	Ignition switch ON	Battery positive voltage
A11 – Ground	Ignition switch LOCK	No voltage
A11 – Ground	Ignition switch ON or ACC	Battery positive voltage

* There is resistance because this circuit is grounded through the bulb.

If the circuit is as specified, trying replacing the relay with a new one.

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

CANADA:

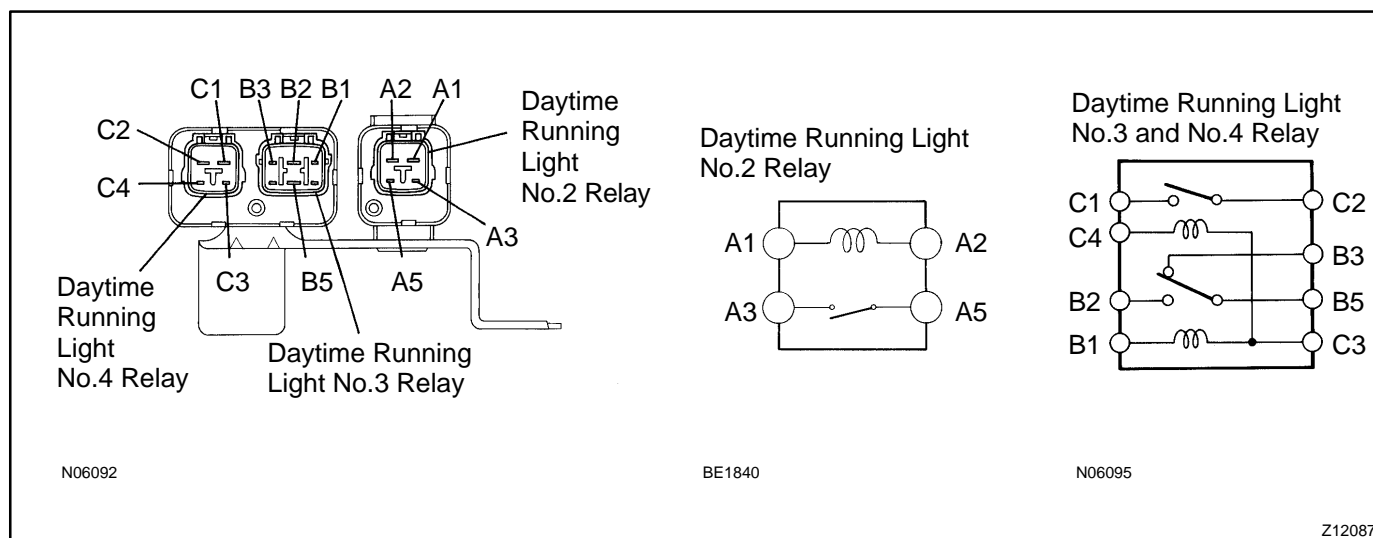
Tester connection	Condition	Specified condition
A4 – Ground	Passenger's courtesy switch OFF	No continuity
A4 – Ground	Passenger's courtesy switch ON	Continuity
A5 – Ground	Ignition key removed	No continuity
A5 – Ground	Ignition key set	Continuity
A6 – Ground	Driver's courtesy switch OFF	No continuity
A6 – Ground	Driver's courtesy switch ON	Continuity
A8 – Ground	Seat belt FASTEN	No continuity
A8 – Ground	Seat belt UNFASTEN	Continuity
A10 – Ground	Constant	Continuity
B1 – Ground	Passenger's door LOCK	No continuity
B1 – Ground	Passenger's door UNLOCK	Continuity
B2 – Ground	Parking brake switch OFF	No continuity
B2 – Ground	Parking brake switch ON	Continuity
B3 – Ground	Driver's door LOCK	No continuity
B3 – Ground	Driver's door UNLOCK	Continuity
B7 – Ground	Headlight dimmer switch Low Beam or High Beam	No continuity
B7 – Ground	Headlight dimmer switch Flash	Continuity
B8 – Ground	Headlight dimmer switch Low Beam	No continuity
B8 – Ground	Headlight dimmer switch High Beam or Flash	Continuity
B10 – Ground	Light control switch OFF	No continuity
B10 – Ground	Light control switch TAIL or HEAD	Continuity
B13 – Ground	Light control switch OFF or TAIL	No continuity
B13 – Ground	Light control switch HEAD	Continuity
A1 – Ground	Constant	Battery positive voltage
A2 – Ground	Constant	* Battery positive voltage
A7 – Ground	Ignition switch LOCK or ACC	No voltage
A7 – Ground	Ignition switch ON	Battery positive voltage
A9 – Ground	Ignition switch LOCK or ACC	No voltage
A9 – Ground	Ignition switch ON	Battery positive voltage
A11 – Ground	Ignition switch LOCK	No voltage
A11 – Ground	Ignition switch ON or ACC	Battery positive voltage
B4 – Ground	Engine STOP	No voltage
B4 – Ground	Engine Running	Battery positive voltage
B9 – Ground	Constant	Battery positive voltage
B11 – Ground	Constant	Battery positive voltage
B12 – Ground	Constant	Battery positive voltage

* There is resistance because this circuit is grounded through the bulb.

If the circuit is as specified, trying replacing the relay with a new one.

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

11. INSPECT DAYTIME RUNNING LIGHT NO.2,NO.3 AND NO.4 RELAY CONTINUITY



Daytime Running Light No.2 Relay

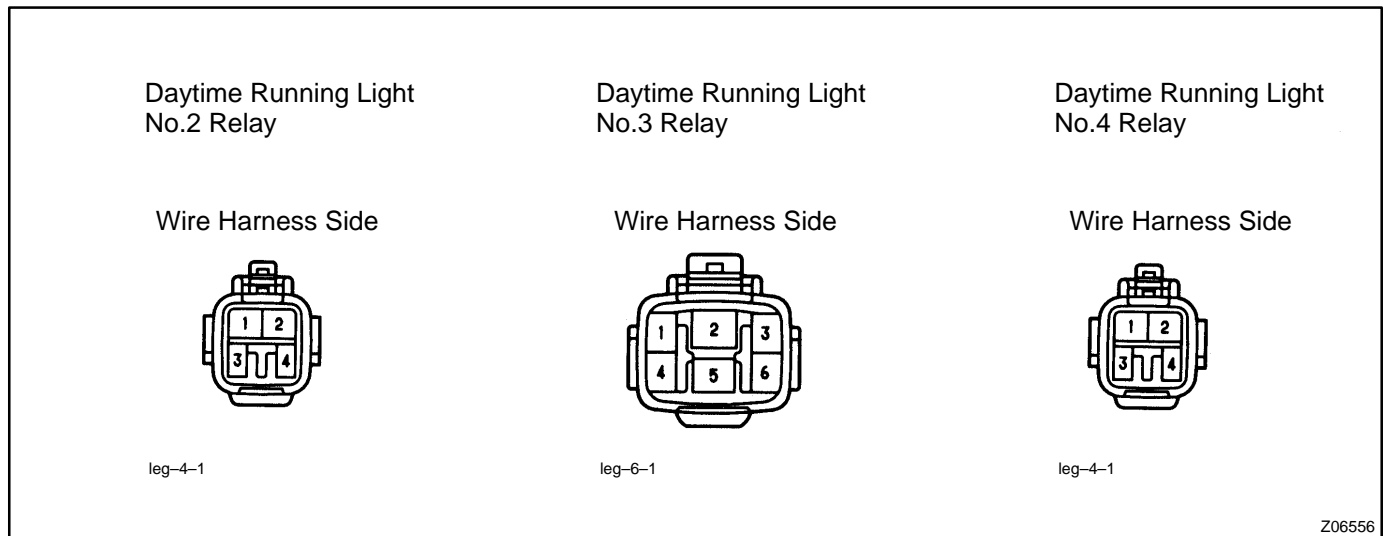
Condition	Tester connection	Specified condition
Constant	A1 – A2	Continuity
Apply B+ between terminals 1 and 2.	A3 – A5	Continuity

Daytime Running Light No.3 and No.4 Relay

Condition	Tester connection	Specified condition
Constant	B1 – C3 B3 – B5 C3 – C4	Continuity
Apply B+ between terminals B1 and C3.	B2 – B5	Continuity
Apply B+ between terminals C3 and C4.	C1 – C2	Continuity

If continuity is not as specified, replace the relay.

12. INSPECT DAYTIME RUNNING LIGHT NO.2,NO.3 AND NO.4 RELAY CIRCUIT



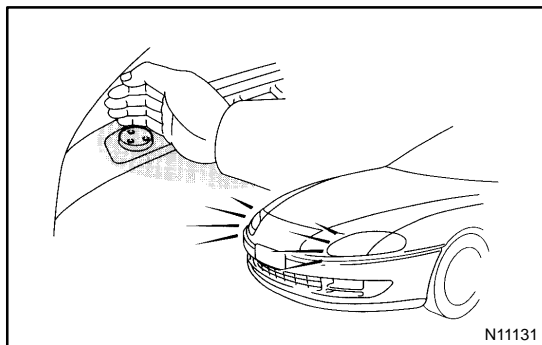
Daytime Running Light No.2 Relay

Tester connection	Condition	Specified condition
A2 – Ground A5 – Ground	Engine running or light control switch HEAD and headlight dimmer switch HI, or headlight dimmer switch FLASH	Continuity
A1 – Ground A3 – Ground	Constant	Battery positive voltage

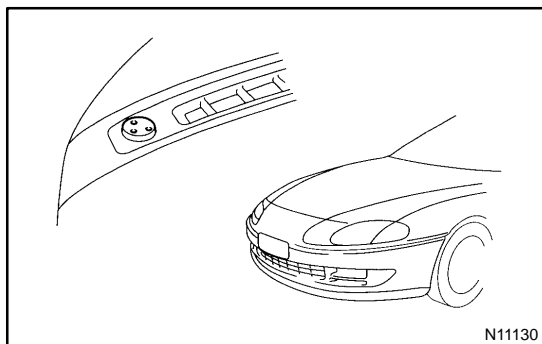
Daytime Running Light No.3 and No.4 Relay

Tester connection	Condition	Specified condition
B1 – Ground B3 – Ground B5 – Ground C1 – Ground C4 – Ground	Constant	Continuity
B2 – Ground C2 – Ground	Engine running or light control switch HEAD and headlight dimmer switch HI, or headlight dimmer switch FLASH	Battery positive voltage
C3 – Ground	Light control switch HEAD	Battery positive voltage

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

**13. AUTO ON:****INSPECT AUTOMATIC LIGHT CONTROL**

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

**14. AUTO OFF:****INSPECT AUTOMATIC LIGHT CONTROL**

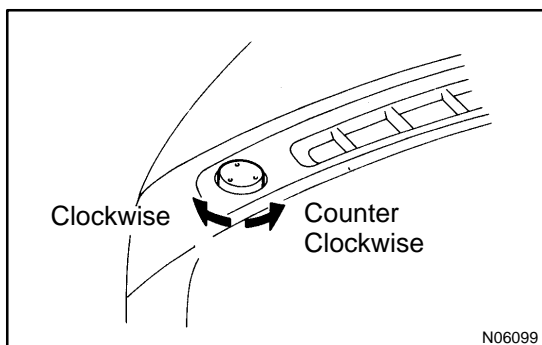
- (a) Gradually expose the sensor.
- (b) Verify that the lights should turn OFF the headlights first, and then the accessory lights.

15. INSPECT LIGHT-OFF CONDITION

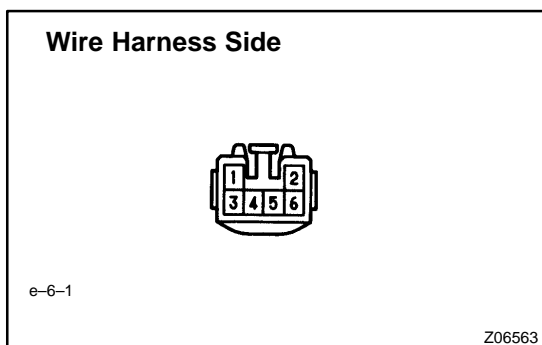
- (a) Turn the ignition switch ON.
- (b) Lights auto ON:
Gradually cover the top of the sensor.
- (c) Verify that the lights will go out when light control switch position OFF or the area surrounding the sensor gets bright or open the driver's door while the ignition switch is OFF.

16. INSPECT LIGHTS-ON CONDITION

- (a) Open the driver's door while the ignition switch is OFF.
- (b) Leaving the door open, verify that the lights go on when the ignition switch is turned ON.

**17. ADJUST AUTOMATIC LIGHT CONTROL SENSOR**

- (a) Adjustment of the light control is performed by turning the sensitivity knob on the sensor.
- (b) This will determine at what light condition the automatic control will take place.
 - If response is too quick, turn the knob counterclockwise.
 - If response is too slow, turn the knob clockwise.

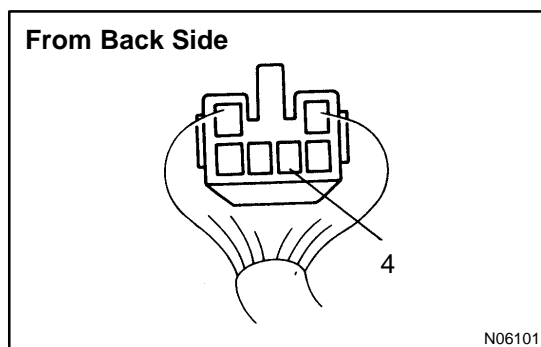
**18. INSPECT AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT**

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

Tester connection	Condition	Specified condition
3 – Ground	Door courtesy switch OFF	No continuity
3 – Ground	Door courtesy switch ON	Continuity
4 – Ground	Light control switch OFF, TAIL or HEAD	No continuity
4 – Ground	Light control switch AUTO	Continuity
5 – Ground	Light control switch OFF or TAIL	No continuity
5 – Ground	Light control switch HEAD	Continuity
6 – Ground	Light control switch OFF	No continuity
6 – Ground	Light control switch TAIL or HEAD	Continuity
1 – Ground	Ignition switch LOCK or ACC	No voltage
1 – Ground	Ignition switch ON or START	Battery positive 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.



19. Connector connected: INSPECT AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

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

Tester connection	Condition	Specified condition
4 – Ground	<ul style="list-style-type: none"> • Ignition switch ON • Light control switch AUTO • Gradually cover the top of the sensor 	Taillights come on before Headlights

If circuit is as specified, trying replacing the sensor with a new one.

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