BE2G5–01

INSPECTION

1. INSPECT LIGHT CONTROL SWITCH CONTINUITY

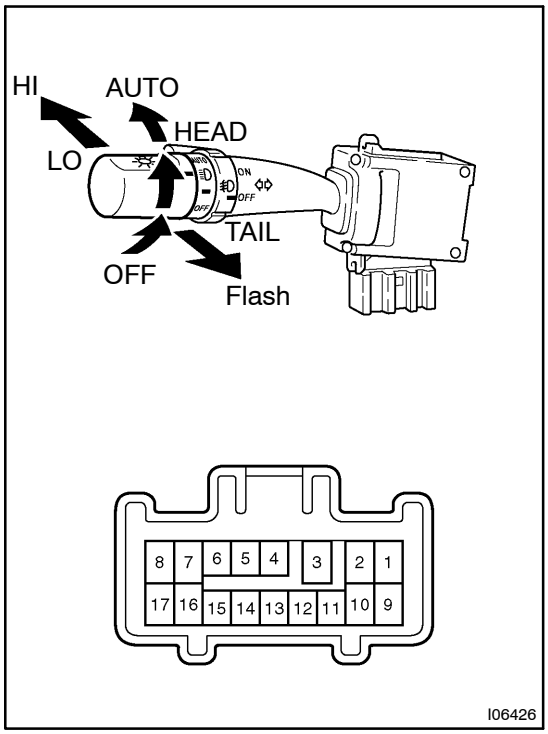
Switch position	Tester connection	Specified condition
OFF	–	No continuity
TAIL	14 – 16	Continuity
HEAD	13 – 14 – 16	Continuity
AUTO	12 – 16	Continuity

If continuity is not as specified, replace the switch.

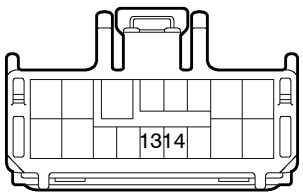
2. INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY

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.



Wire Harness Side



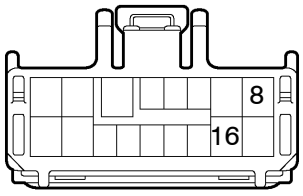
3. Connector disconnected: INSPECT LIGHT CONTROL SWITCH CIRCUIT

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

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

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

Wire Harness Side



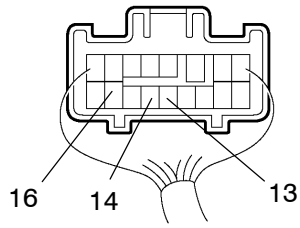
4. Connector disconnected: INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT

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

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

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

From Back Side



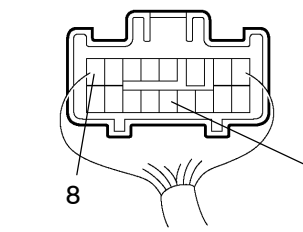
5. Connector connected:
INSPECT LIGHT CONTROL SWITCH CIRCUIT

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	Always	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



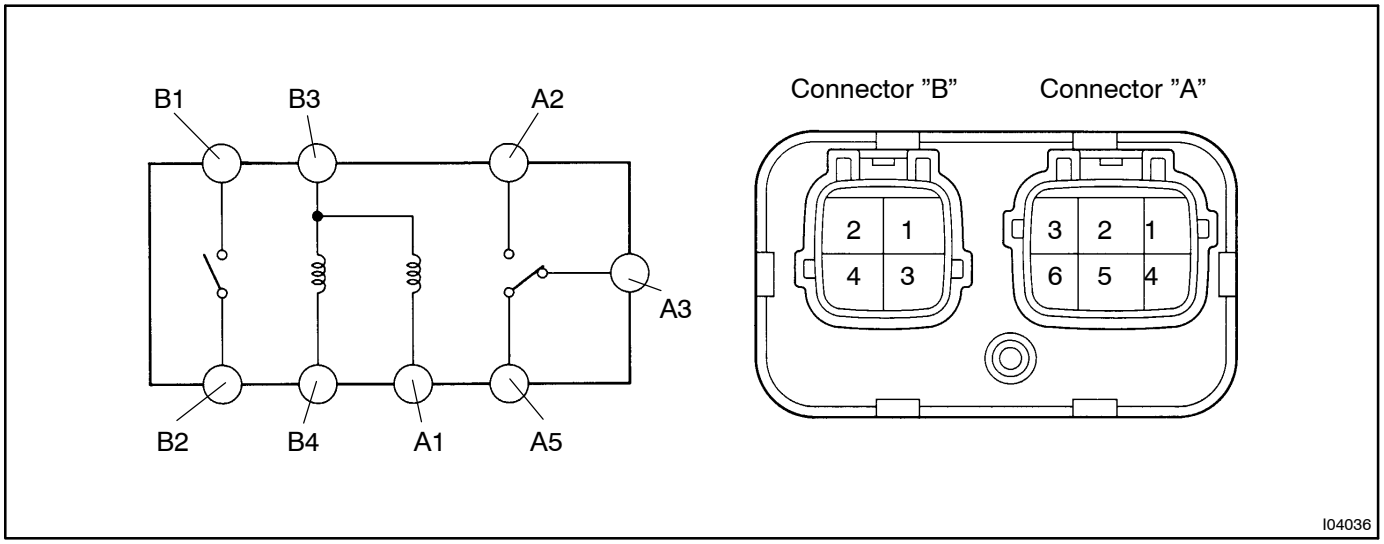
6. Connector connected:
INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT

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

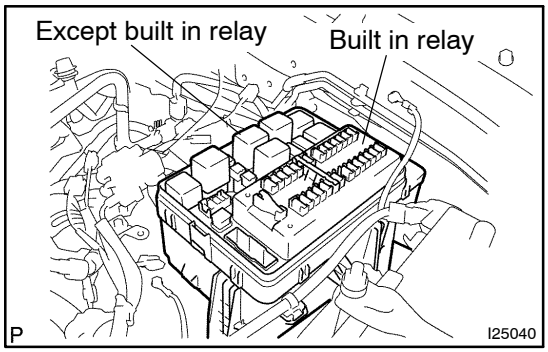
If circuit is not as specified, inspect the wire harness.

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



Tester connection	Condition	Specified condition
A1 – B3	Always	Continuity
A3 – A5	Always	Continuity
B3 – B4	Always	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.

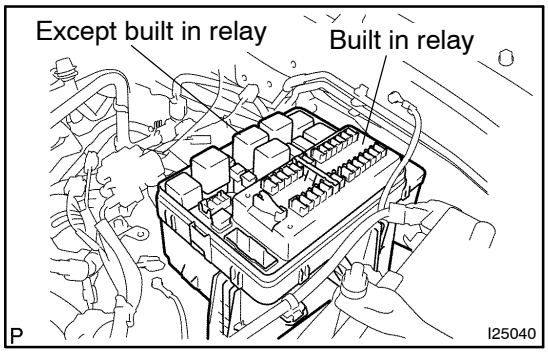


8. HEADLIGHT RELAY:
INSPECT ENGINE ROOM R/B RELAY CIRCUIT
(See Page BE–16)

HINT:

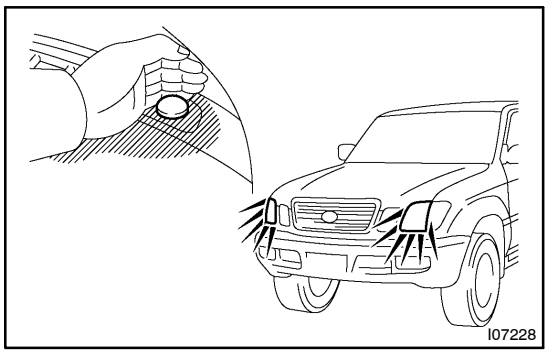
The headlight relay is built in the engine room junction block. Also, the relay is constructed with a relay block that is in the junction block as a unit. To disconnect the wire harness connecting with relay block is impossible. If the relay has a malfunction, replace it with junction block assembly wire harness together.

9. INSPECT HEADLIGHT DIMMER (DAYTIME RUNNING LIGHT NO.2) RELAY CIRCUIT(See page BE–2)



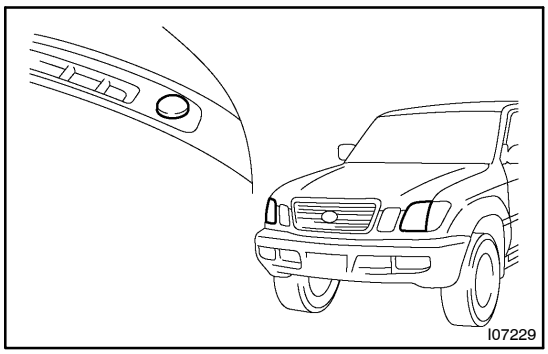
10. INSPECT TAILLIGHT CONTROL RELAY:
INSPECT ENGINE ROOM R/B RELAY CIRCUIT
(See Page BE–16)

HINT:
The taillight relay is built in engine room junction block. Also the relay is constructed with a relay block that is in the junction block as a unit. To disconnect the wire harness connecting with relay block is impossible. If the relay has a malfunction, replace it with junction block assembly wire harness together.



11. 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) Check the accessory lights and the headlights come on.



12. AUTO OFF:
INSPECT AUTOMATIC LIGHT CONTROL

(a) Gradually uncover the sensor.
(b) Check the accessory lights and the headlights go off.

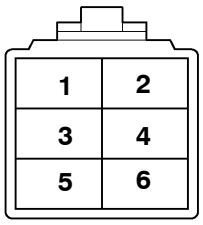
13. INSPECT LIGHT–OFF CONDITION

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

14. INSPECT LIGHTS–ON CONDITION

(a) Open the driver's door while the ignition switch is OFF.
(b) Turn the light control switch to AUTO as leaving the door open, and cover the top of the sensor to check that the lights comes on by corning the ignition switch to ON.

Wire Harness Side:



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15. Connector disconnected:
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.

HINT:

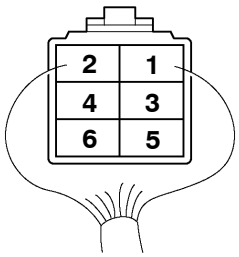
- Ignition switch is ON.
- Light control switch is in AUTO.
- Around the vehicle is light.

Tester connection	Condition	Specified condition
6 – Ground	Always	Continuity
3 – Ground	Close the driver's door again while the ignition switch OFF	No voltage
3 – Ground	Ignition switch position ON	5.2 – 9.0V

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

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

From Back Side:



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16. 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.

HINT:

- Ignition switch is ON.
- Light control switch is in AUTO.
- Around the vehicle is light.

Tester connection	Condition	Specified condition
4 – Ground (CLTS – Body ground)	Always	Pulse generation
3 – Ground (CLTB – Body ground)	Ignition switch ON	10 – 14V

If circuit is as specified, inspect the circuit(See page DI–1415).

If the circuits is not as specified, replace the sensor with a new one.