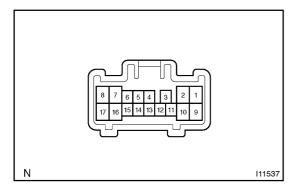
BE15Z-01



### **INSPECTION**

## I. LHD models: INSPECT LIGHT CONTROL SWITCH CONTINUITY

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

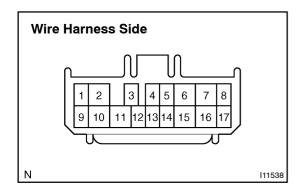
If continuity is not as specified, replace the switch.

### 2. LHD models:

## 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. LHD models:

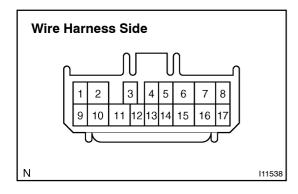
## INSPECT LIGHT CONTROL SWITCH CIRCUIT Connector disconnected:

(See page DI-453)

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

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



### 4. LHD models:

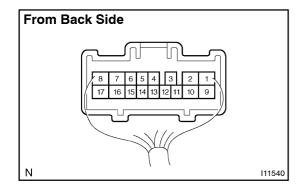
## INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT Connector disconnected:

(See page DI-453)

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
13 – Ground	Light control switch HEAD	Battery voltage

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



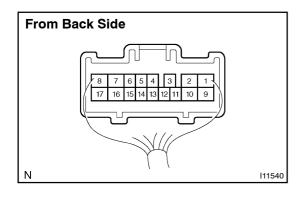
### 5. LHD models:

## 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
12 – Ground	Light control switch OFF, TAIL or HEAD	Battery voltage
12 – Ground	Light control switch AUTO	No voltage
13 – Ground	Light control switch OFF or TAIL	Battery voltage
13 – Ground	Light control switch HEAD	No voltage
14 – Ground	Light control switch OFF	Battery voltage
14 – Ground	Light control switch TAIL or HEAD	No voltage

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



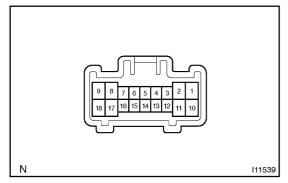
### 6. LHD models:

## 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
7 – Ground	Headlight dimmer switch FLASH Light control switch HEAD and dimmer switch HIGH	No voltage
7 – Ground	Light control switch HEAD and dimmer switch LOW	Battery voltage
17 – Ground	Light control switch HEAD and dimmer switch LOW and fog light switch ON	No voltage
17 – Ground	Light control switch HEAD and dimmer switch HIGH or FLASH and fog light switch ON	Battery voltage

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



## 7. Europe RHD Models: INSPECT LIGHT CONTROL SWITCH CONTINUITY

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

If continuity is not as specified, replace the switch.

## 8. Europe RHD Models: 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.

### 9. Australia RHD Models: INSPECT LIGHT CONTROL SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
OFF	-	No continuity
TAIL	16 – 17	Continuity
HEAD	15 – 16 – 17	Continuity
AUTO	14 – 17	Continuity

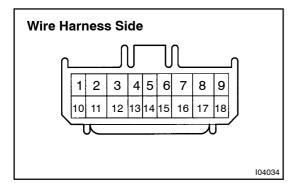
If continuity is not as specified, replace the switch.

### 10. Australia RHD Models:

## INSPECT HEADLIGHT DIMMER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Low beam	10 – 11	Continuity
High beam	2 – 10	Continuity
Flash	1 – 2 – 10	Continuity

If continuity is not as specified, replace the switch.



### 11. RHD Models:

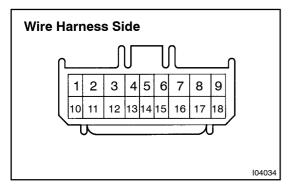
## INSPECT LIGHT CONTROL SWITCH CIRCUIT Connector disconnected:

(See page DI-453)

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

Tester connection	Condition	Specified condition
17 - Ground (Australia) 16 - Ground (Europe)	Constant	Continuity

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



### 12. RHD Models:

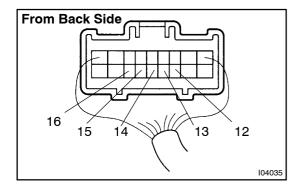
INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT Connector disconnected:

(See page DI-453)

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

Tester connection	Condition	Specified condition
17 Ground (Australia) 16 Ground (Europe)	Constant	Continuity
15 Ground (Australia) 13 Ground (Europe)	Light control switch HEAD	Battery voltage

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

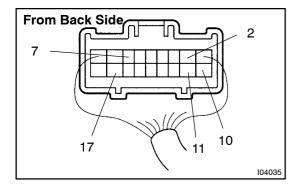


# 13. RHD Models: INSPECT LIGHT CONTROL SWITCH CIRCUIT Connector connected:

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
14 – Ground (Australia) 12 – Ground (Europe)	Light control switch OFF, TAIL or HEAD	Battery voltage
14 – Ground (Australia) 12 – Ground (Europe)	Light control switch AUTO	No voltage
15 – Ground (Australia) 13 – Ground (Europe)	Light control switch OFF or TAIL	Battery voltage
15 – Ground (Australia) 13 – Ground (Europe)	Light control switch HEAD	No voltage
16 – Ground (Australia) 14 – Ground (Europe)	Light control switch OFF	Battery voltage
16 – Ground (Australia) 14 – Ground (Europe)	Light control switch TAIL or HEAD	No voltage

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

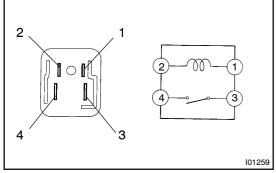


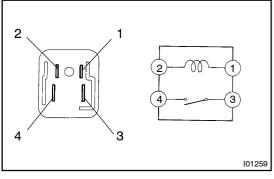
# 14. RHD Models: INSPECT HEADLIGHT DIMMER SWITCH CIRCUIT Connector connected:

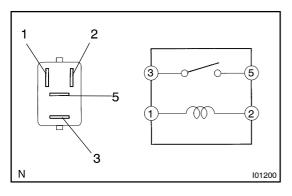
Connect the wire harness side connector to the light control and dimmer switch and inspect the connector from the back side, as shown.

Tester connection	Condition	Specified condition
2 – Ground (Australia) 7 – Ground (Europe)	Headlight dimmer switch FLASH Light control switch HEAD and dimmer switch HIGH	No voltage
2 - Ground (Australia) 7 - Ground (Europe)	Light control switch HEAD and dimmer switch LOW	Battery voltage
11 – Ground (Australia) 17 – Ground (Europe)	Light control switch HEAD and dimmer switch LOW and fog light switch ON	No voltage
11 – Ground (Australia) 17 – Ground (Europe)	Light control switch HEAD and dimmer switch HIGH or FLASH and fog light switch ON	Battery voltage

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







#### INSPECT HEADLIGHT CONTROL RELAY CONTINU-15. **ITY**

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.

### INSPECT HEADLIGHT CONTROL RELAY CIRCUIT (See page DI-459)

### 17. **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

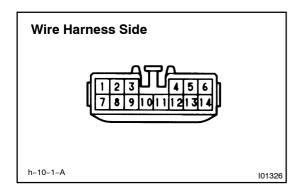
If continuity is not as specified, replace the relay.

#### INSPECT TAILLIGHT CONTROL RELAY CONTINUITY 18.

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.

### INSPECT TAILLIGHT CONTROL RELAY CIRCUIT (See page DI-572)



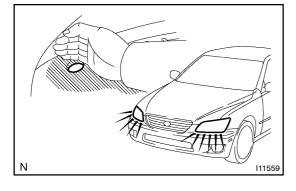
### 20. LHD models:

## INSPECT DAYTIME RUNNING LIGHT MAIN RELAY CIRCUIT

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

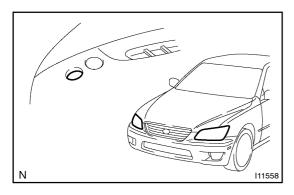
Tester connection	Condition	Specified condition
2 – Ground	Light control switch OFF	No continuity
2 – Ground	Light control switch TAIL or HEAD	Continuity
4 – Ground	Light control switch OFF or TAIL	No continuity
4 – Ground	Light control switch HEAD	Continuity
6 – Ground	Headlight dimmer switch FLASH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



## 21. INSPECT AUTOMATIC LIGHT CONTROL SYSTEM Auto on function:

- (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.



## 22. INSPECT AUTOMATIC LIGHT CONTROL SYSTEM Auto off function:

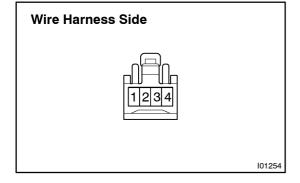
- (a) Gradually expose the sensor.
- (b) Check the headlights and the accessory lights should turn OFF.

### 23. 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.

### 24. 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.



## 25. INSPECT AUTOMATIC LIGHT CONTROL SENSOR CIRCUIT

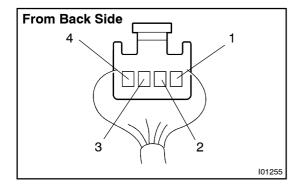
### Connector disconnected:

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

Tester connection	Condition	Specified condition
3 – Ground	Constant	Continuity
1 – Ground	Ignition switch LOCK or ACC	No voltage
1 – Ground	Ignition switch ON	Battery voltage
4 – Ground	Ignition switch LOCK or ACC	No voltage
4 – Ground	Ignition switch ON	5.2 – 9.0 V

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.



## 26. 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
3 – Ground	Constant	Continuity
1 – Ground	Ignition switch LOCK or ACC	No voltage
1 – Ground	Ignition switch ON	9.5 V or more
Vehicle is under the direct sun light. (Sensor is not covered)		Taillight and Headlight are ON.

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.