

## LIGHTING SYSTEM

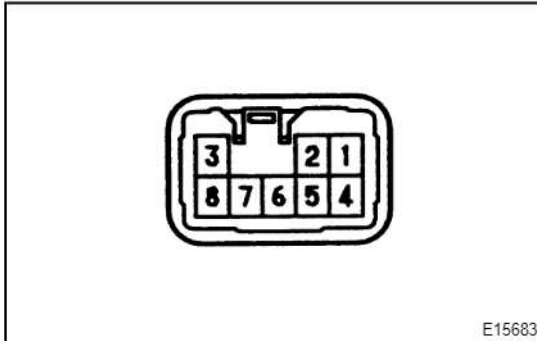
65091-01

### PRECAUTION

#### 1. PRECAUTION OF HEADLIGHT BULB REPLACEMENT

- (a) If the adhered oil is left unremoved from the halogen lamp surface, the lamp service life is shortened as it becomes hot when it is turned on.
- (b) Since the internal pressure of a halogen lamp is high, dropping, hitting or damaging the bulb may cause the glass to scatter. Therefore, handle it with great care.
- (c) When replacing bulbs, do not remove until a new bulb is prepared.  
Because if it is left being removed for a long period of time, the lens may be covered with dirt or moisture.
- (d) For replacement, be sure to use a bulb of the same watt.
- (e) Firmly reinstall the socket after bulb replacement. Otherwise, cloudy lens or invasion by water will be caused.

## ON-VEHICLE INSPECTION



### 1. INSPECT TURN SIGNAL FLASHER CIRCUIT

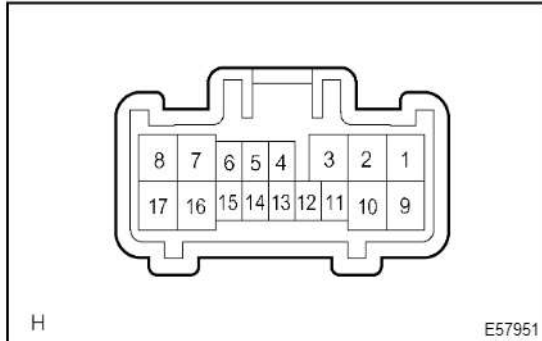
- (a) Measure voltage between terminal as shown in the chart below.

| Tester connection | Condition                | Specified condition      |
|-------------------|--------------------------|--------------------------|
| 7 – Ground        | Constant                 | Continuity               |
| 1 – Ground        | Turn ignition switch ON  | Battery positive voltage |
| 1 – Ground        | Turn ignition switch OFF | No voltage               |
| 4 – Ground        | Constant                 | Battery positive voltage |

- (b) Connect the connector to turn signal flasher and inspect the wire harness side connector from the back side as shown in the chart below.

| Tester connection | Condition                                | Specified condition                         |
|-------------------|------------------------------------------|---------------------------------------------|
| 2 – Ground        | Hazard switch OFF → ON                   | 0V → 10 – 14 V (60 to 120 time per minutes) |
| 2 – Ground        | Turn signal switch (right turn) OFF → ON | 0V → 10 – 14 V (60 to 120 time per minutes) |
| 3 – Ground        | Hazard switch OFF → ON                   | 0V → 10 – 14 V (60 to 120 time per minutes) |
| 3 – Ground        | Turn signal switch (left turn) OFF → ON  | 0V → 10 – 14 V (60 to 120 time per minutes) |
| 5 – Ground        | Turn signal switch (left turn) OFF → ON  | 10 – 14 V → 0 V                             |
| 6 – Ground        | Turn signal switch (right turn) OFF → ON | 10 – 14 V → 0 V                             |
| 8 – Ground        | Hazard switch OFF → ON                   | 10 – 14 V → 0 V                             |

# INSPECTION



## 1. HEADLAMP DIMMER SWITCH ASSY

(a) Inspect light control switch continuity.

(1) Check that there is continuity between terminals at each switch position as shown in the chart.

| Switch operation | Tester connection | Specified condition |
|------------------|-------------------|---------------------|
| OFF              | —                 | No continuity       |
| TAIL             | 14 - 16           | Continuity          |
| HEAD             | 13 - 16 - 14      | Continuity          |

(b) Inspect headlamp dimmer switch continuity.

(1) Check that there is continuity between terminals at each switch position as shown in the chart.

| Switch operation | Tester connection | Specified condition |
|------------------|-------------------|---------------------|
| FLASH            | 7 - 8 - 16        | Continuity          |
| LOW BEAM         | 16 - 17           | Continuity          |
| HI BEAM          | 7 - 16            | Continuity          |

(c) Inspect turn signal switch continuity.

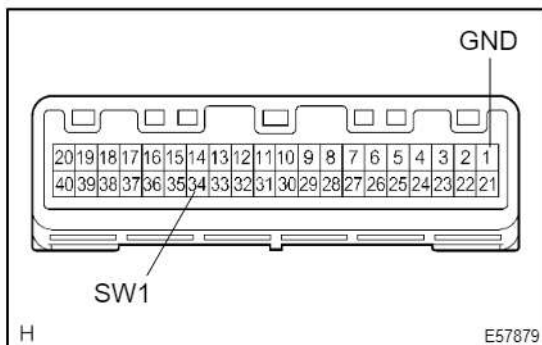
(1) Check that there is continuity between terminals at each switch position as shown in the chart.

| Switch operation | Tester connection | Specified condition |
|------------------|-------------------|---------------------|
| Right turn       | 2 - 3             | Continuity          |
| Neutral          | —                 | No continuity       |
| Left turn        | 1 - 2             | Continuity          |

(d) Inspect front fog light switch continuity.

(1) Check that there is continuity between terminals at each switch position as shown in the chart.

| Switch operation | Tester connection | Specified condition |
|------------------|-------------------|---------------------|
| OFF              | —                 | No continuity       |
| ON               | 10 - 11           | Continuity          |

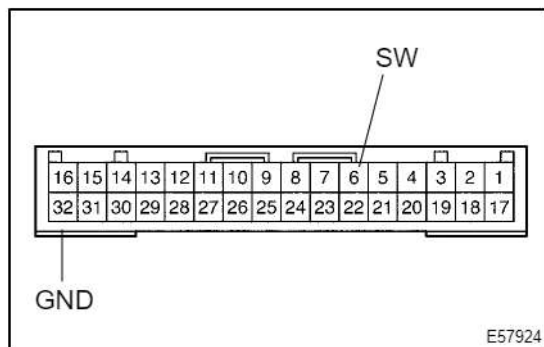


## 2. HEATER CONTROL HOUSING SUB-ASSY

(a) Auto A/C:

Inspect hazard warning signal switch.

| Switch operation | Tester connection | Specified condition |
|------------------|-------------------|---------------------|
| OFF              | 1 - 34            | No continuity       |
| ON               | 1 - 34            | Continuity          |



- (b) Manual A/C:  
Inspect hazard warning signal switch.

| Switch operation | Tester connection | Specified condition |
|------------------|-------------------|---------------------|
| OFF              | 6 – 32            | No continuity       |
| ON               | 6 – 32            | Continuity          |

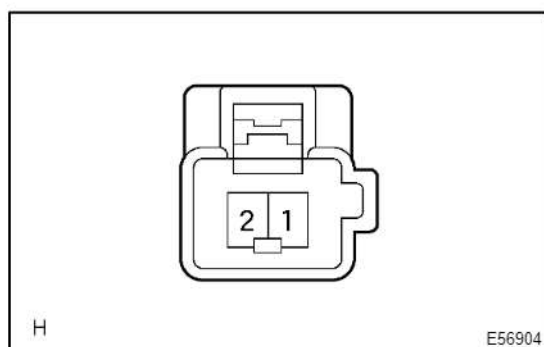
### 3. BACK UP LAMP SWITCH ASSY

- (a) Inspect back-up lamp switch continuity.  
(1) Check that there is continuity between terminals upon switch operation.

**Standard:**

**OFF (When ball is not pressed): No continuity**

**ON (When ball is pressed): Continuity**



### 4. LUGGAGE COMPARTMENT DOOR LOCK ASSY

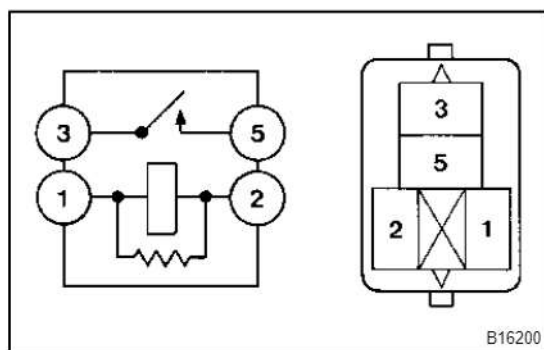
- (a) Inspect luggage compartment door courtesy lamp switch continuity.

- (1) Check that there is continuity between terminal 2 and body ground when switch is operated.

**Standard:**

**ON (When shaft is pressed): No continuity**

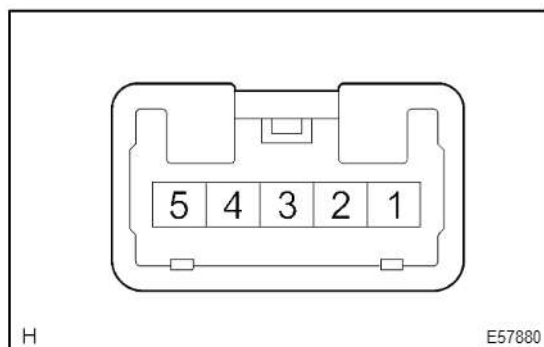
**OFF (When shaft is not pressed): Continuity**



### 5. FOG LAMP RELAY

- (a) Inspect relay continuity.

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



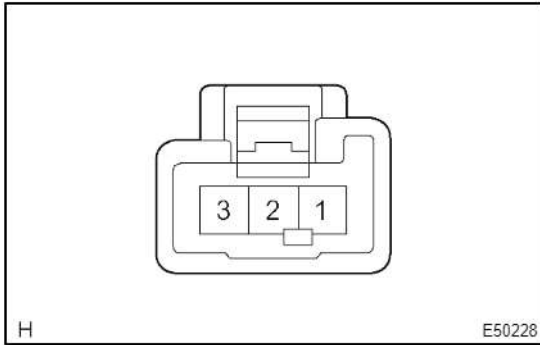
### 6. ROOF CONSOLE BOX ASSY

- (a) Inspect map lamp continuity.  
(1) Check that there is continuity between terminal 1 and 5 when switch is operated.

**Standard:**

**ON: Continuity**

**OFF: No continuity**



## 7. ROOM LAMP ASSY NO.1

- (a) Inspect room lamp assy No. 1 continuity.  
 (1) Check that there is continuity between terminals at each switch position as shown in the chart.

### Standard:

| Switch operation | Tester connection | Specified condition |
|------------------|-------------------|---------------------|
| OFF              | —                 | No continuity       |
| DOOR             | 1 – 2             | Continuity          |
| *1 ON            | 2 – 3             | Continuity          |
| *2 ON            | 1 – 3             | Continuity          |

\*1: TMMK Made

\*2: TMC Made

## 8. GLOVE BOX LAMP ASSY

- (a) Inspect glove box lamp assy continuity.  
 (1) Check that there is continuity between terminals when switch is operated.

### Standard:

**ON (When shaft is pressed): No continuity**

**OFF (When shaft is not pressed): Continuity**

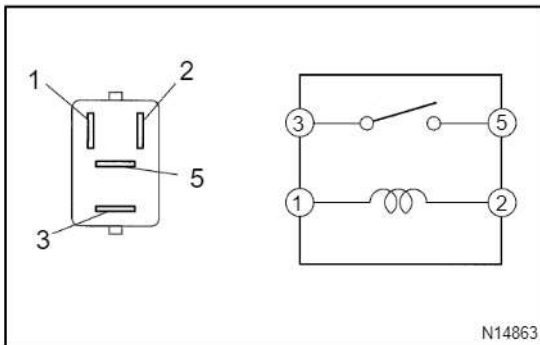
## 9. LUGGAGE COMPARTMENT LAMP ASSY NO.1

- (a) Inspect luggage compartment lamp assy No. 1.  
 (b) Check that there is continuity between terminals when switch is operated.

### Standard:

**ON: Continuity**

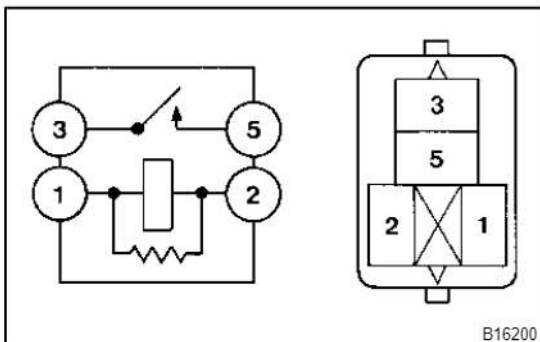
**OFF No continuity**



## 10. TAIL LAMP RELAY

- (a) Inspect relay continuity.

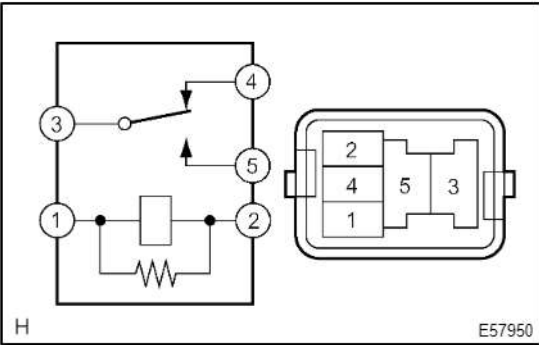
| Condition                         | Tester connection | Specified condition |
|-----------------------------------|-------------------|---------------------|
| Constant                          | 1 – 2             | Continuity          |
| Apply B+ between terminal 1 and 2 | 3 – 5             | Continuity          |



## 11. DAY TIME RUNNING LIGHT RELAY NO.2

- (a) Inspect relay continuity.

| Condition                         | Tester connection | Specified condition |
|-----------------------------------|-------------------|---------------------|
| Constant                          | 1 – 2             | Continuity          |
| Apply B+ between terminal 1 and 2 | 3 – 5             | Continuity          |



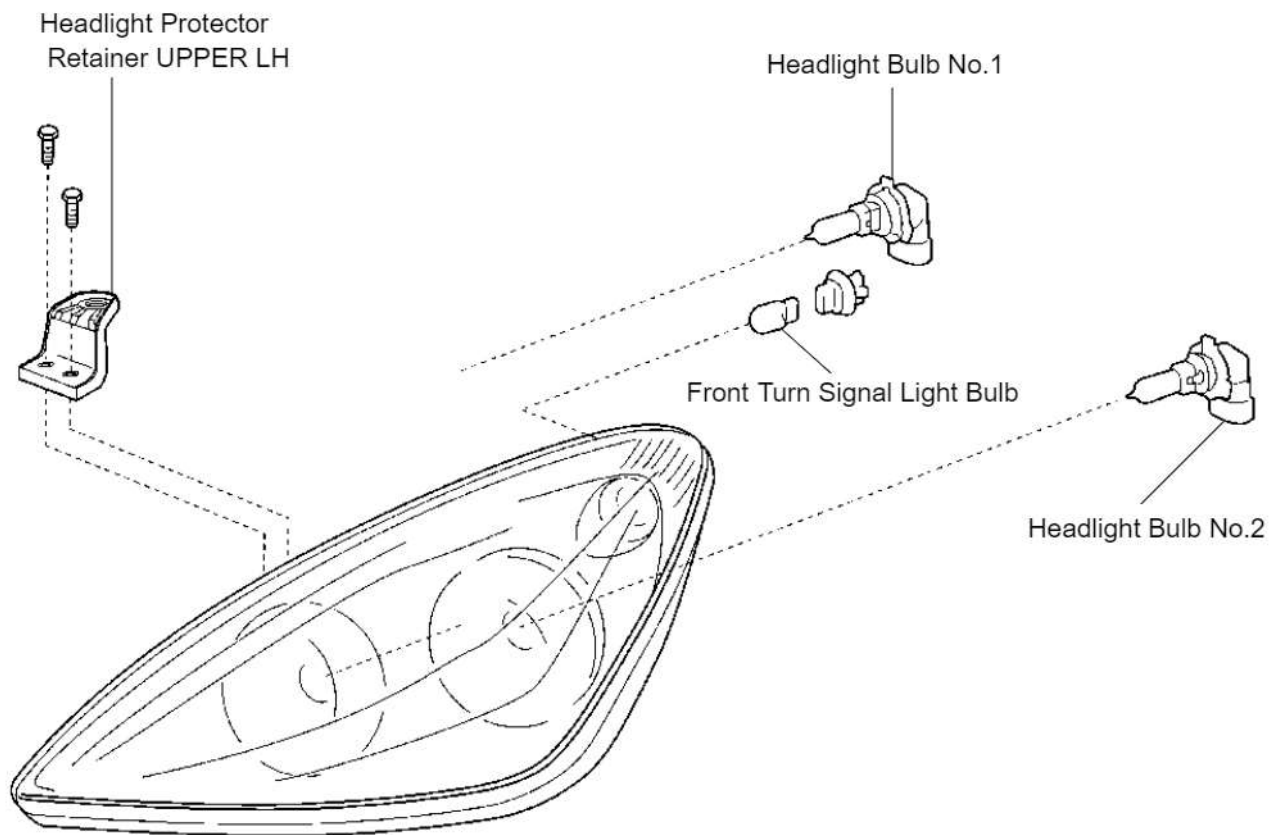
12. RUNNING LIGHT RELAY

(a) Inspect relay continuity.

| Condition                         | Tester connection | Specified condition |
|-----------------------------------|-------------------|---------------------|
| Constant                          | 1 – 3, 2 – 4      | Continuity          |
| Apply B+ between terminal 1 and 3 | 4 – 5             | Continuity          |

## LH HEADLAMP ASSY COMPONENTS

650BN-01



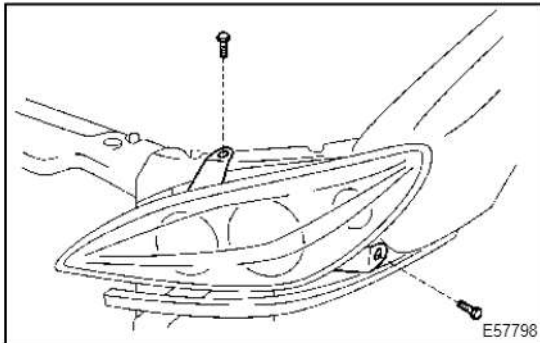
E58521

## REPLACEMENT

HINT:

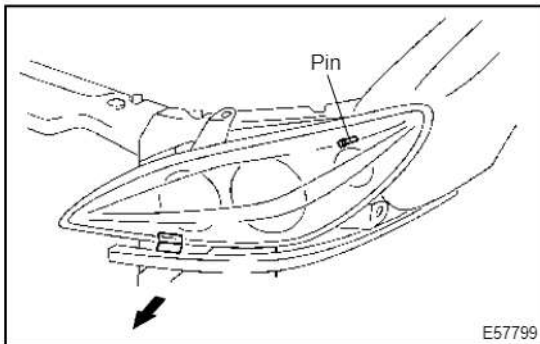
COMPONENTS: See Page 65-7

1. **REMOVE ENGINE UNDER COVER LH**  
(See Page 76-2)
2. **REMOVE ENGINE UNDER COVER RH**  
(See Page 76-2)
3. **REMOVE FRONT FENDER LINER RH**  
(See Page 76-2)
4. **REMOVE FRONT FENDER LINER LH**  
(See Page 76-2)
5. **REMOVE FRONT BUMPER COVER**  
(See Page 76-2)



### 6. REMOVE LH HEADLAMP ASSY

- (a) Remove the 2 bolts.
- (b) Disconnect the connectors.

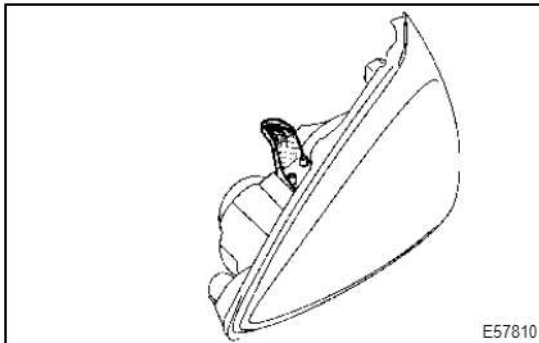


- (c) Pull out the headlight unit forward.
- (d) Remove the headlight assy.

## 7. REMOVE HEADLAMP PROTECTOR RETAINER UPPER LH

### HINT:

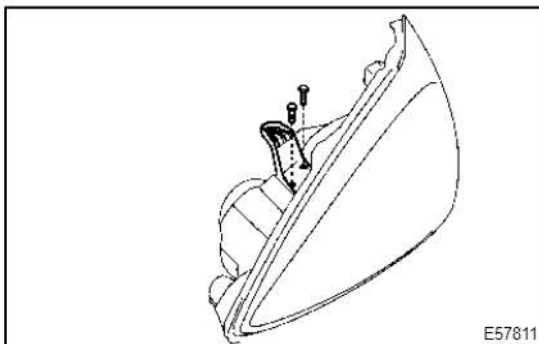
When only the installation part of the headlight unit assy LH is damaged, it can be repaired inexpensively by using a headlight protector retainer UPPER LH. In this case, however, the headlight unit assy LH itself should not be damaged.



- (a) Cut off the part shaded in the illustration and sand smooth with sandpaper.

### NOTICE:

After cutting off the part roughly, place the headlight protector retainer UPPER LH against the bosses and gradually file any interfering part until the proper condition for installation is made.



- (b) Install the headlight protector retainer UPPER LH with the 2 screws.

## 8. HEADLIGHT AIM ONLY(See Page 65-10)

## ADJUSTMENT

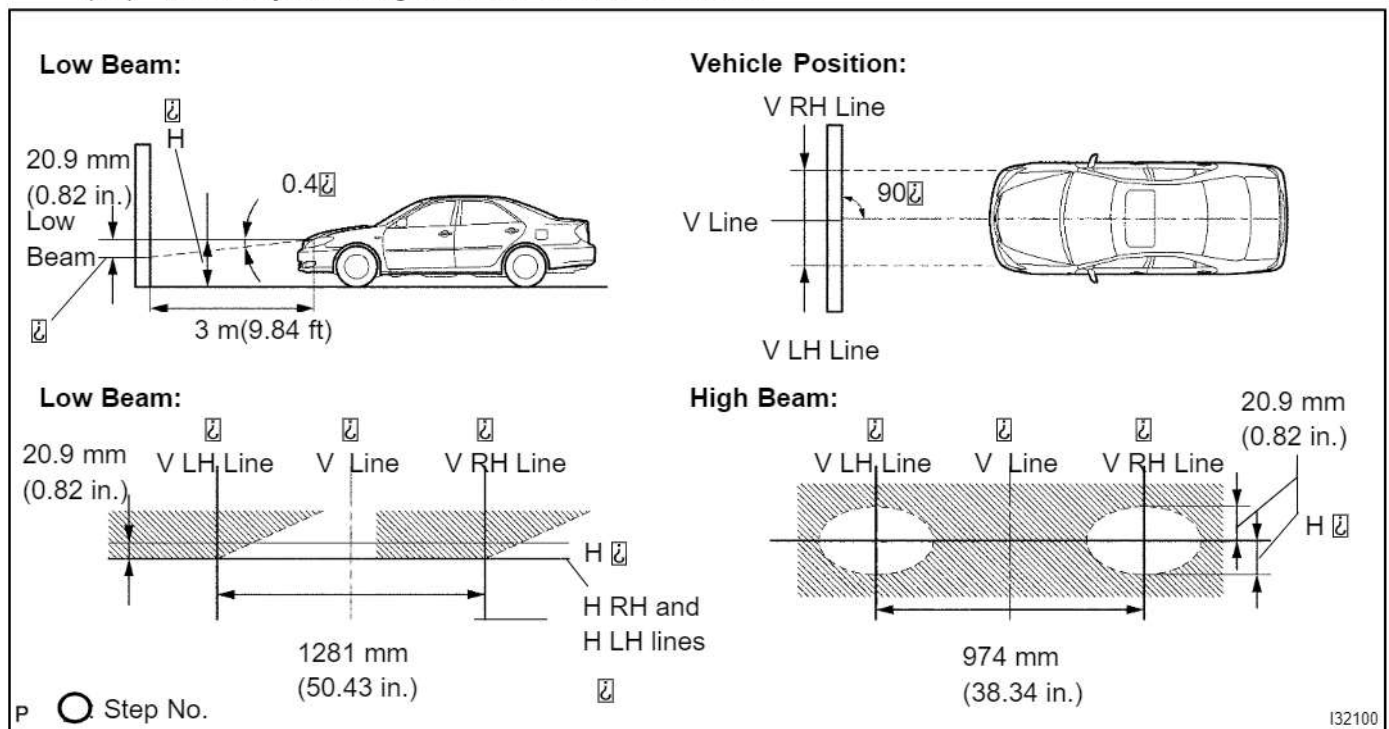
### 1. HEADLIGHT AIM ONLY

- (a) Place the vehicle with the following conditions.
  - The area around the headlight is not deformed.
  - The vehicle is parked on a level surface.
  - Tire inflation pressure is in the specified value.
  - A driver is in the driver's seat and the vehicle is in a state ready for driving (with a tank full).
  - The vehicle has been bounced several times.
- (b) Check the headlight aiming.
  - (1) Prepare a thick white paper.
  - (2) Stand the paper perpendicular to the ground at the position 9.84 ft away from the headlights.
  - (3) Ensure that the center line of the vehicle and the paper face forms a 90-degree angle as shown in the illustration.
  - (4) Draw a horizontal line (H line) on the paper, showing where the headlights should strike.
  - (5) Draw a vertical line (V line) to where the center line of the vehicle is to be.
  - (6) Draw 2 vertical lines to where the both headlights should strike (V RH and V LH lines).
  - (7) Draw a horizontal line (by connecting the both low beam center marks) to where the headlights should strike (H RH and H LH lines).
  - (8) Take appropriate measures to prevent any influence of other lights.

#### HINT:

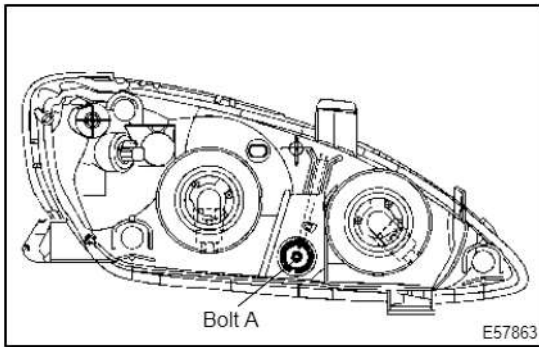
The H RH and H LH line is  $0.4^\circ$  below the horizontal line (H line) of the light axis.

- (9) Start the engine.
- (10) Turn the headlights ON.
- (11) Check that the headlights properly strike the position shown in the illustration.
- (12) If not, adjust the lights in the vertical direction.



#### HINT:

- As shown in the illustration, adjust each aim of the RH and LH lights.
- Since it is impossible to adjust the horizontal direction, the value of the "Low Beam" aim is reference value.



- (c) When adjusting it in the vertical direction:
- (1) High Beam:  
Using adjusting bolt A, adjust the headlight aim to be within the specified range.
  - (2) Low Beam:  
Using adjusting bolt A, adjust the headlight aim to be within the specified range.

**HINT:**

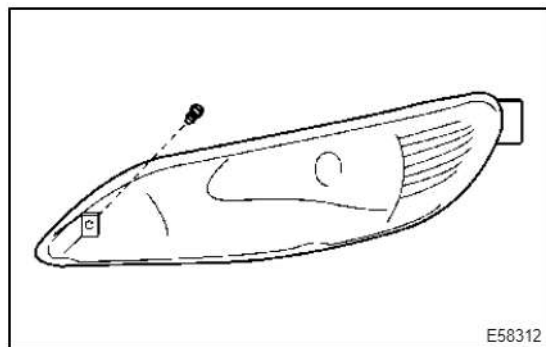
The optical aim moves upward when turning a screwdriver clockwise, while it moves downward when turning a screwdriver counterclockwise.

## FOG LAMP ASSY LH

### REPLACEMENT

65080-01

1. REMOVE ENGINE UNDER COVER LH  
(See Page76-2)

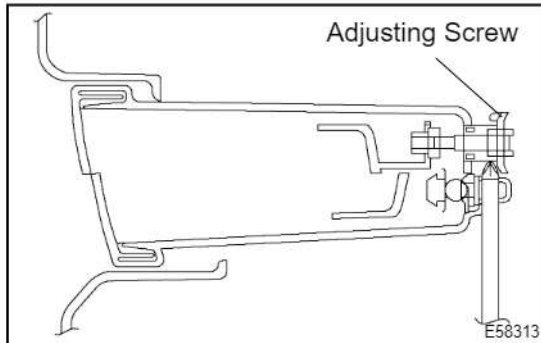


2. REMOVE FOG LAMP ASSY LH
  - (a) Detach clip and pull out the fog light assy LH forward.

## ADJUSTMENT

### 1. PUT VEHICLE THESE CONDITIONS

- (a) Tire inflation pressure is in the specified value.
- (b) Start the engine.



### 2. ADJUST FOG LIGHT AIM

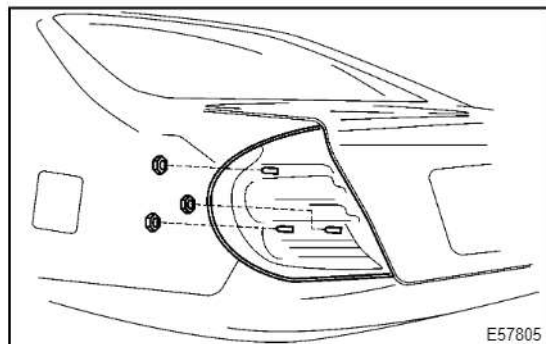
- (a) The fog light aim can be adjusted by turning the aiming screw in the vertical direction.

#### HINT:

The optical aim moves upward when turning a screwdriver clockwise, while it moves downward when turning a screwdriver counterclockwise.

## REAR COMBINATION LAMP ASSY LH REPLACEMENT

6508Q-01



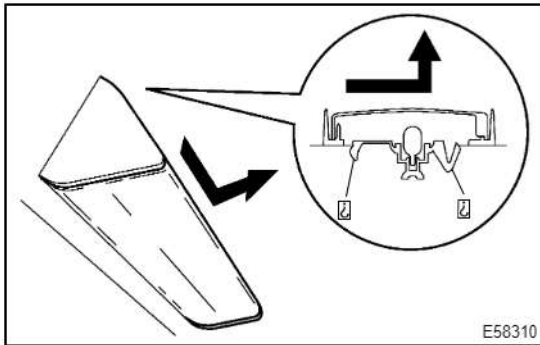
### 1. REMOVE REAR COMBINATION LAMP ASSY LH

- (a) Remove the service hole cover.
- (b) Remove the 3 nuts and disconnect the connector of rear combination light.
- (c) Pull the rear combination light assy to the back of the vehicle, and remove the rear combination light assy.

## LICENSE PLATE LAMP ASSY REPLACEMENT

650BR-01

1. REMOVE LUGGAGE COMPARTMENT DOOR COVER  
(See Page 76-16)
2. REMOVE LUGGAGE COMPARTMENT DOOR GARNISH SUB-ASSY OUTSIDE  
(See Page 76-16)

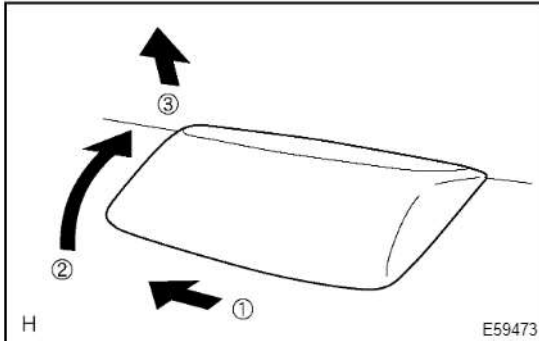


### 3. REMOVE LICENSE PLATE LAMP ASSY

- (a) Pull the license plate light assy to the side of vehicle as shown in the illustration and release the claw, then disconnect the connector.

## CENTER STOP LAMP ASSY REPLACEMENT

65085-01



### 1. REMOVE CENTER STOP LAMP ASSY(W/O REAR SPOILER LED)

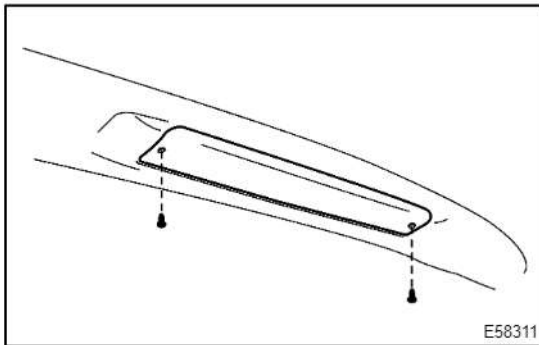
- (a) Pull out the center stop light assy shown in the illustration.
- (b) Disconnect connector.

### 2. REMOVE LUGGAGE COMPARTMENT DOOR COVER(W/ REAR SPOILER LED)

(See Page 76-6)

### 3. REMOVE REAR SPOILER SUB-ASSY(W/ REAR SPOILER LED)

(See Page 76-6)



### 4. REMOVE CENTER STOP LAMP ASSY(W/ REAR SPOILER LED)

- (a) Remove the 2 screws and center stop light assy.

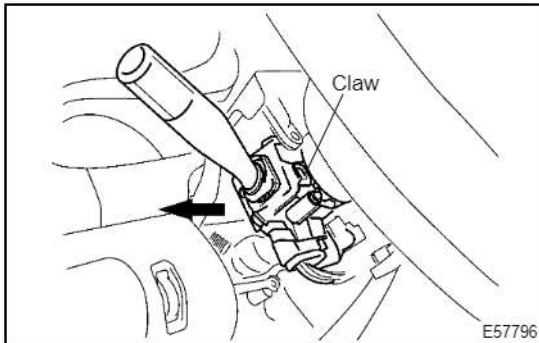
### 5. INSTALL REAR SPOILER SUB-ASSY(W/ REAR SPOILER LED)

(See Page 76-6)

# HEADLAMP DIMMER SWITCH ASSY REPLACEMENT

6508T-01

1. REMOVE STEERING COLUMN COVER  
(See Page 50-9)



2. REMOVE HEADLAMP DIMMER SWITCH ASSY

- (a) Disconnect the connector.
- (b) Using a screwdriver, release the claw and pull out the headlight dimmer switch Assy.

**NOTICE:**

**Pressing the claw hard breaks the claw.**

**HINT:**

Tape the screwdriver tip before use.