

### 15.Headlight Bulb

#### A: REMOVAL

##### 1. HIGH BEAM

###### CAUTION:

- Do not perform work with wet hands, because there is a possibility of electrical shock.
- Do not leave the light assembly - head without the bulb for a long time. Dust, moisture, etc. entering the light may affect its performance.

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

###### NOTE:

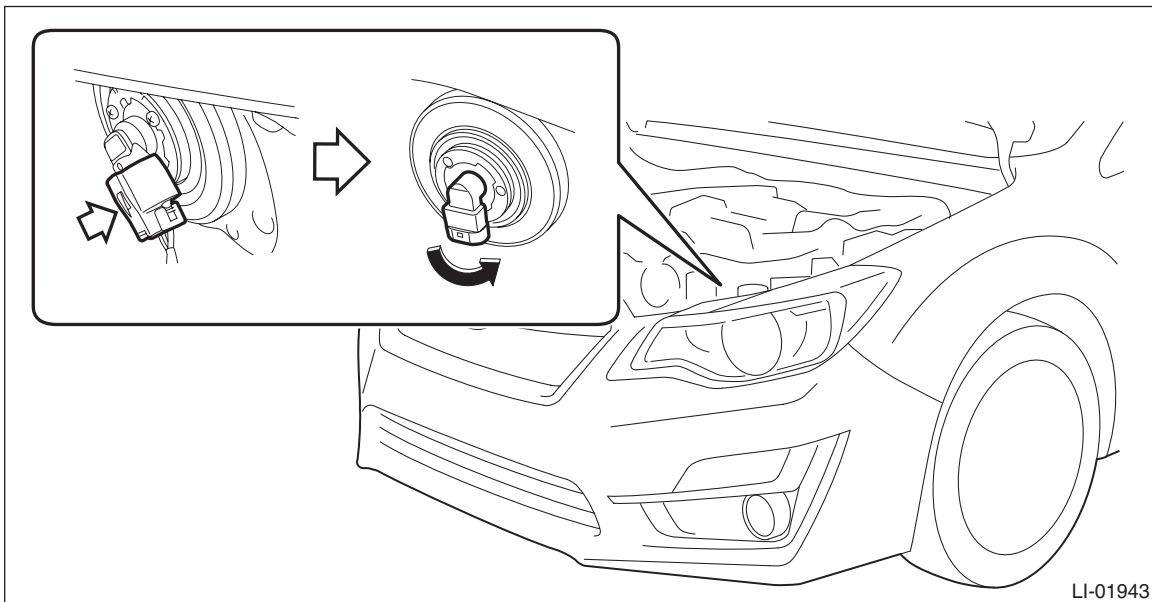
For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

2) Remove the air intake duct. (When removing the right side of gasoline engine model) <Ref. to IN(H4DO(w/o HEV))-13, REMOVAL, Air Intake Duct.>

3) Disconnect the connector and remove the high beam bulb.

###### CAUTION:

Use a dry clean cloth so that no grease or water adheres to the glass portion of the bulb.



LI-01943

## 2. HALOGEN TYPE LOW BEAM

### CAUTION:

- Do not perform work with wet hands, because there is a possibility of electrical shock.
- Do not leave the light assembly - head without the bulb for a long time. Dust, moisture, etc. entering the light may affect its performance.

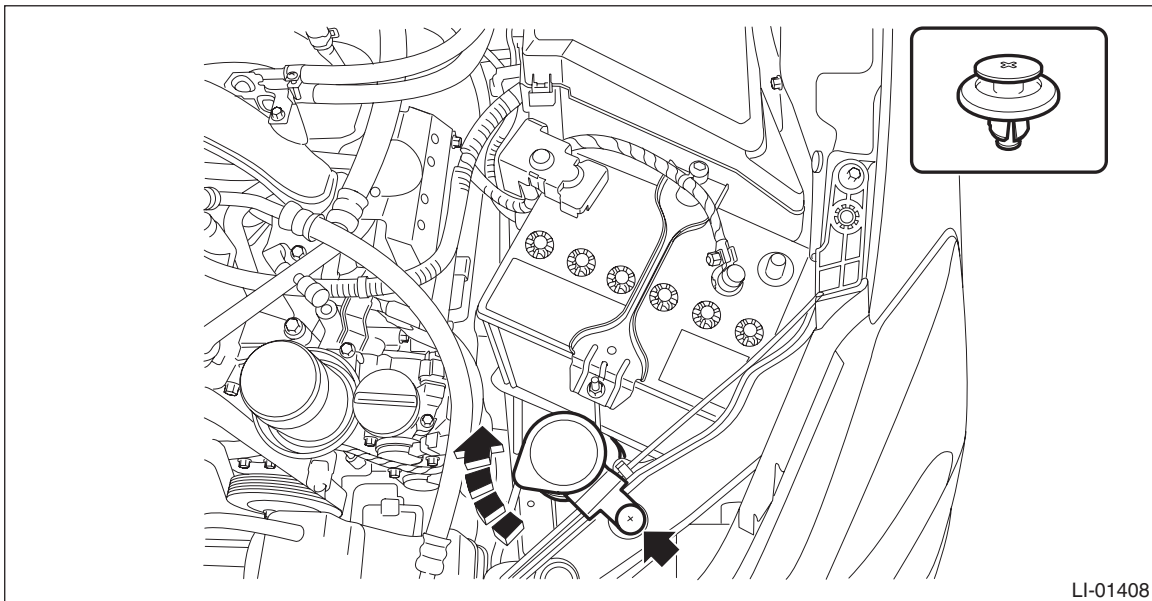
1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

### NOTE:

For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

2) Remove the air intake duct. (When removing the right side of gasoline engine model) <Ref. to IN(H4DO(w/o HEV))-13, REMOVAL, Air Intake Duct.>

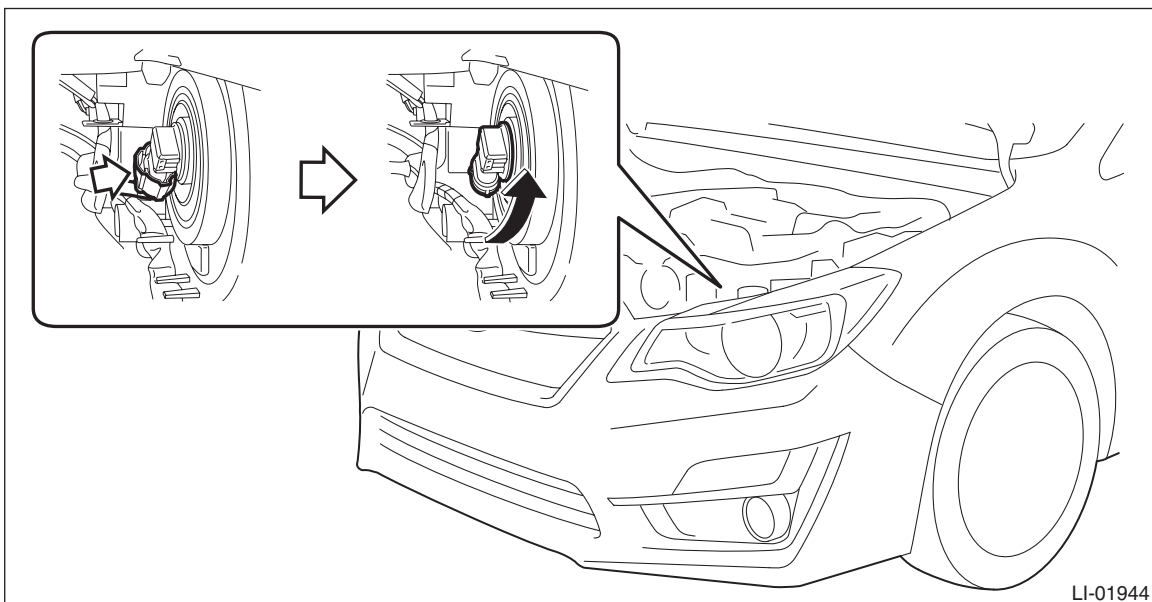
3) Turn the filler neck of the tank - washer front clockwise. (When removing the low beam bulb LH)



4) Disconnect the connector and remove the low beam bulb.

### CAUTION:

- Make sure to check if any bulb O-ring is remained on the housing side as this may sometimes happen.
- Use a dry clean cloth so that no grease or water adheres to the glass portion of the bulb.



# Headlight Bulb

## LIGHTING SYSTEM

### 3. HID TYPE LOW BEAM

When removing RH side

**CAUTION:**

- Do not perform work with wet hands, because there is a possibility of electrical shock.
- Do not leave the light assembly - head without the bulb for a long time. Dust, moisture, etc. entering the light may affect its performance.

1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

**NOTE:**

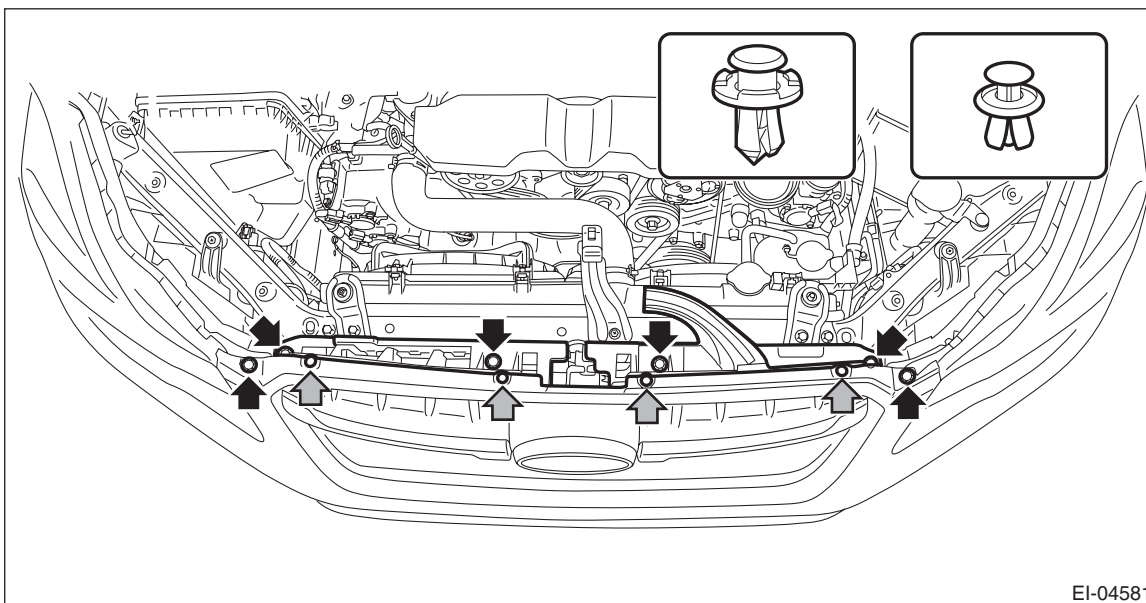
For the 12 volt engine restart battery of HEV model, disconnect the ground terminal from 12V engine restart battery sensor.

2) Remove the air intake duct. (Gasoline engine model) <Ref. to IN(H4DO(w/o HEV))-13, REMOVAL, Air Intake Duct.>

3) Remove the clip, and remove the bracket - grille.

**CAUTION:**

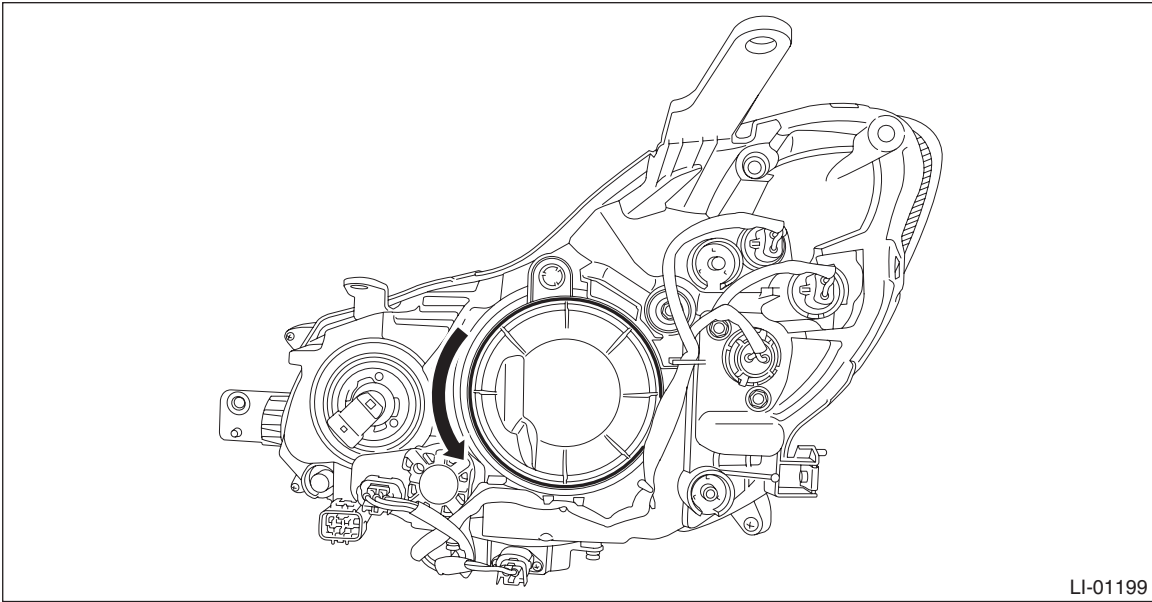
To prevent damage to the bracket - grille, make sure to remove all clips.



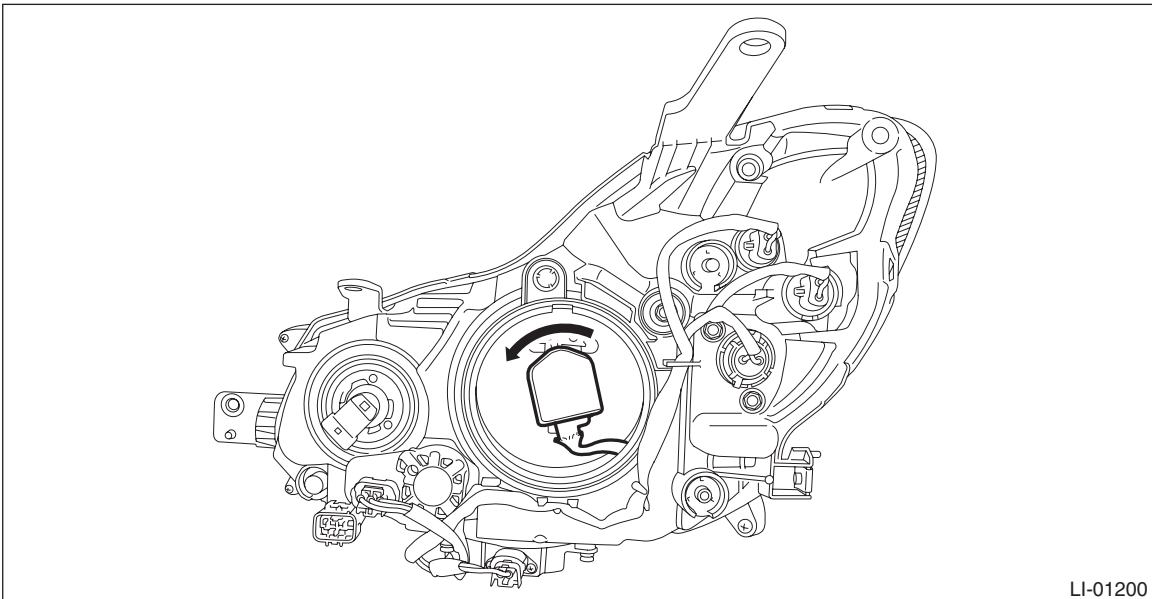
4) Remove the bumper face - front. <Ref. to EI-40, REMOVAL, Front Bumper.>

5) Remove the light assembly - head. <Ref. to LI-29, REMOVAL, Headlight Assembly.>

- 6) Remove the low beam bulb.  
(1) Remove the cover - headlight.



- (2) Remove the valve socket.



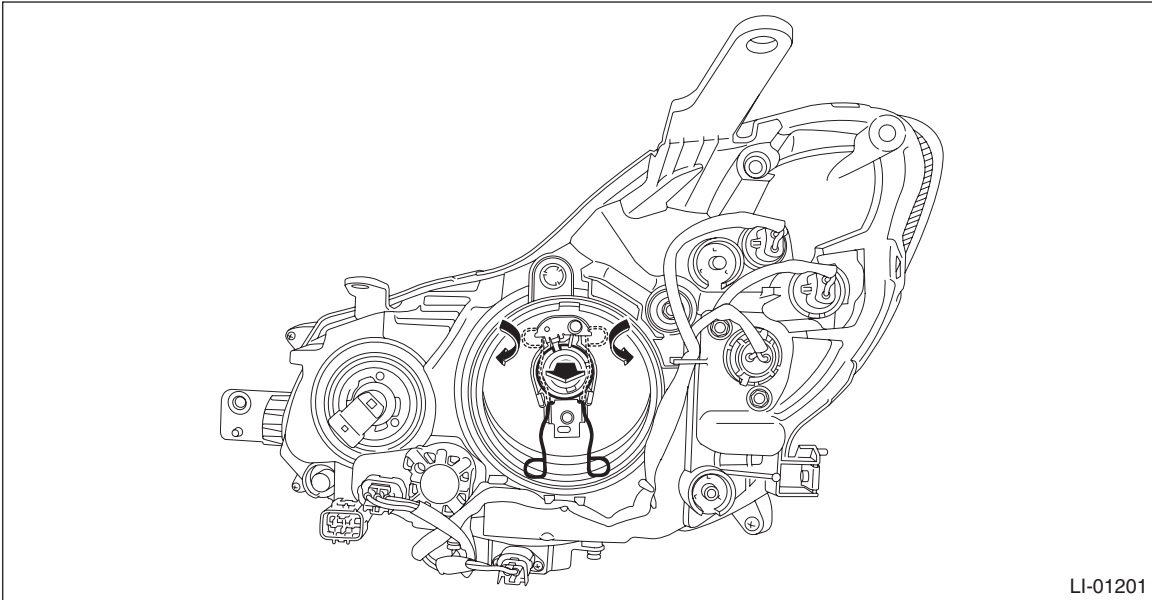
# Headlight Bulb

## LIGHTING SYSTEM

(3) Unlock the bulb spring, and remove the low beam bulb.

### CAUTION:

Use a dry clean cloth so that no grease or water adheres to the glass portion of the bulb.



### When removing LH side

### CAUTION:

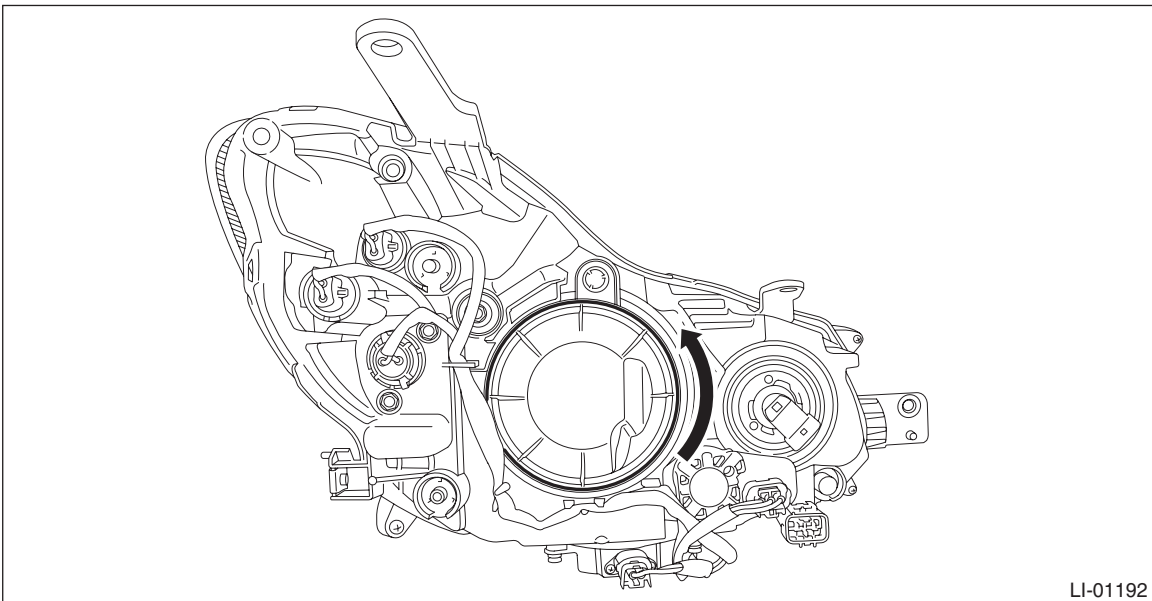
- Do not perform work with wet hands, because there is a possibility of electrical shock.
- Do not leave the light assembly - head without the bulb for a long time. Dust, moisture, etc. entering the light may affect its performance.

1) Remove the battery.

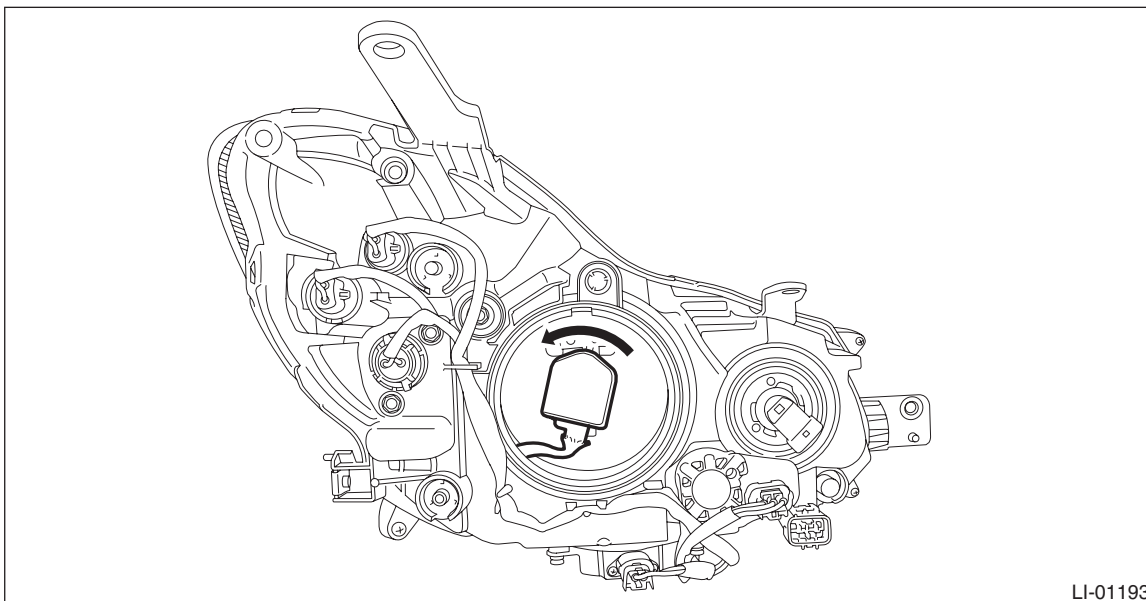
- Gasoline engine model: <Ref. to SC(H4DO(w/o HEV))-52, REMOVAL, Battery.>
- HEV model: <Ref. to SC(H4DO(HEV))-39, REMOVAL, Battery.>

2) Remove the low beam bulb.

(1) Remove the cover - headlight.



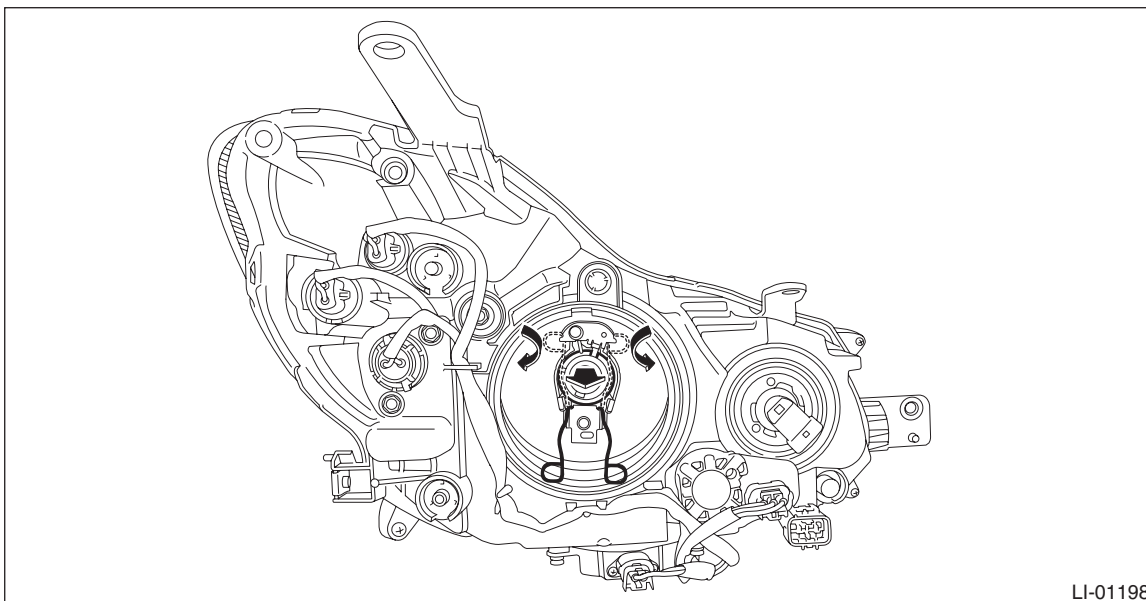
(2) Remove the valve socket.



(3) Unlock the bulb spring, and remove the low beam bulb.

**CAUTION:**

Use a dry clean cloth so that no grease or water adheres to the glass portion of the bulb.



# Headlight Bulb

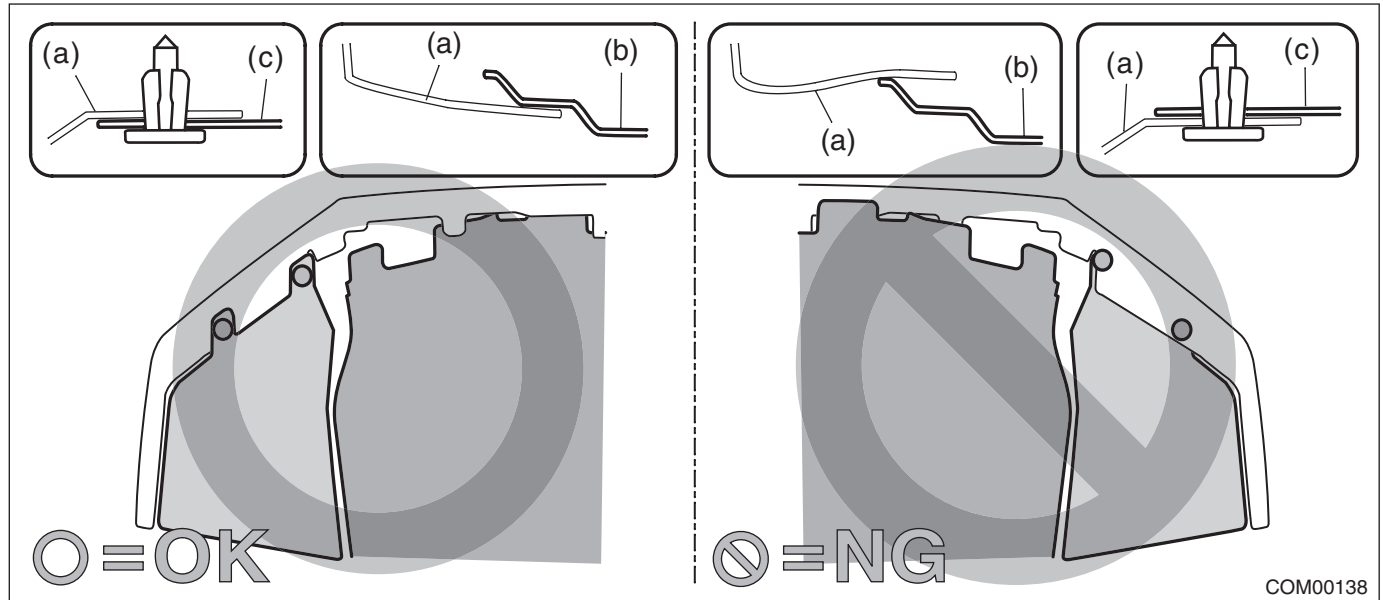
## LIGHTING SYSTEM

### B: INSTALLATION

- 1) Install each part in the reverse order of removal.
- 2) When performing the work of HID type low beam RH, secure the flange section of the bumper face - front to the bracket - front bumper side.

#### CAUTION:

Install so that the front end of the under cover (b) comes inside the bumper face - front (a), and the front end of the mud guard (c) comes outside the bumper face - front (a).



#### Tightening torque:

**Light assembly - head: 7.5 N·m (0.76 kgf-m, 5.5 ft-lb)**

- 3) When performing the work of HID type low beam RH, adjust the fog light beam. (Model with fog light) <Ref. to LI-55, FOG LIGHT AIMING, ADJUSTMENT, Front Fog Light Assembly.>

## C: INSPECTION

### 1. HALOGEN TYPE

#### WARNING:

Because the headlight system uses high voltage, be careful not to perform work with wet hands. There is a possibility of electrical shock.

#### CAUTION:

- Because the halogen bulb operates at a high temperature, dirt and oil on the bulb surface reduces the bulb's service life. Hold the flange portion when replacing the bulb. Never touch the glass portion.

- Do not leave the light assembly - head without the bulb and cover - headlight for a long time. Dust, moisture, etc. entering the headlight may affect its performance.

1) Visually check the bulb for blow out.

2) Check the bulb specification. <Ref. to LI-2, SPECIFICATION, General Description.>

3) Replace the bulb if it is found defective.

### 2. HID TYPE

#### WARNING:

Because the headlight system uses high voltage, be careful not to perform work with wet hands. There is a possibility of electrical shock.

#### CAUTION:

- Do not leave the light assembly - head without the bulb and cover - headlight for a long time. Dust, moisture, etc. entering the headlight may affect its performance.

- When lit (lighting switch is ON), do not touch the harness, light internals, or metal parts of the light.

- When performing a lighting test, make sure that the headlight is mounted on the vehicle, and the power supply is connected to the connector on the vehicle's side.

1) Check the bulb specification. <Ref. to LI-2, SPECIFICATION, General Description.>

2) Install the factory HID bulb to check whether it lights properly.

3) If it does not light properly, replace with a new bulb.

4) Inspect the HID ballast.

Inspect the ballast in the following manner, and determine whether or not to reuse.

(1) Perform cold starts (light the headlight after turning off for 10 minutes or more), and hot starts (light the headlight for 15 minutes or more, then turn off for 1 minute and relight) several times, to make sure that the headlight lights properly.

(2) Monitor the lighting condition right after a cold start up to a stable state (approx. 5 min.), to see if there are any unstable conditions such as flickering.

(3) Install bulbs with the same number of operating hours on both headlights, and light for approximately 30 minutes. Check for whether there is a difference in brightness on the right and left sides.

5) Replace the ballast if it is found defective.