

# GENUINE FRONT FOG LAMP KIT

## INSTALLATION AND USER'S INSTRUCTIONS

Thank you for purchasing a Genuine Mazda Accessory.

Before removal and installation, Please thoroughly read these instructions.

For your safety, please read the contents of this booklet to properly install and use the front fog lamp kit.

Keep these instructions with your vehicle records for future reference.



### WARNING

- There are several **⚠ WARNING** and **⚠ CAUTION** sections in this booklet concerning safety when installing or removing the front fog lamp kit. Always read and follow the instructions in order to prevent injuries, accidents, and possible damage to the vehicle.

**⚠ WARNING:** Indicates a situation in which serious injury or death could result if the warning is ignored.

**⚠ CAUTION:** Indicates a situation in which bodily injury or damage to the vehicle could result if the caution is ignored.

- For areas indicating the tightening torque in this instruction manual, tighten to the specified torque by using a torque wrench. For areas in which the tightening torque is indicated inside parentheses ( ), the tightening torque is indicated as a reference value, however tightening using a torque wrench is not necessary
- Do not modify the front fog lamp kit.
- Do not install the front fog lamp kit in any way other than described in the following instructions.
- If in doubt, please contact your Mazda dealer to install the accessory in order to prevent errors in installation.
- If you have any questions about the use of the accessory, ask your Mazda dealer for proper advice before using it.
- Mazda and its suppliers are not responsible for injuries, accidents, and damage to persons and property that arise from the failure of the dealer or installer to follow these instructions.
- To ensure safety and reliability of the work, installation, removal and disposal work must be carried out by an Authorized Mazda Dealership.
- Be careful not to lose removed parts, and be sure that they are kept free of dirt, scratches, or damage.

**PART NAME: FRONT FOG LAMP KIT**

**PART NUMBER: TK78 V4 600**

**VEHICLE: MAZDA CX-9**

### NOTE

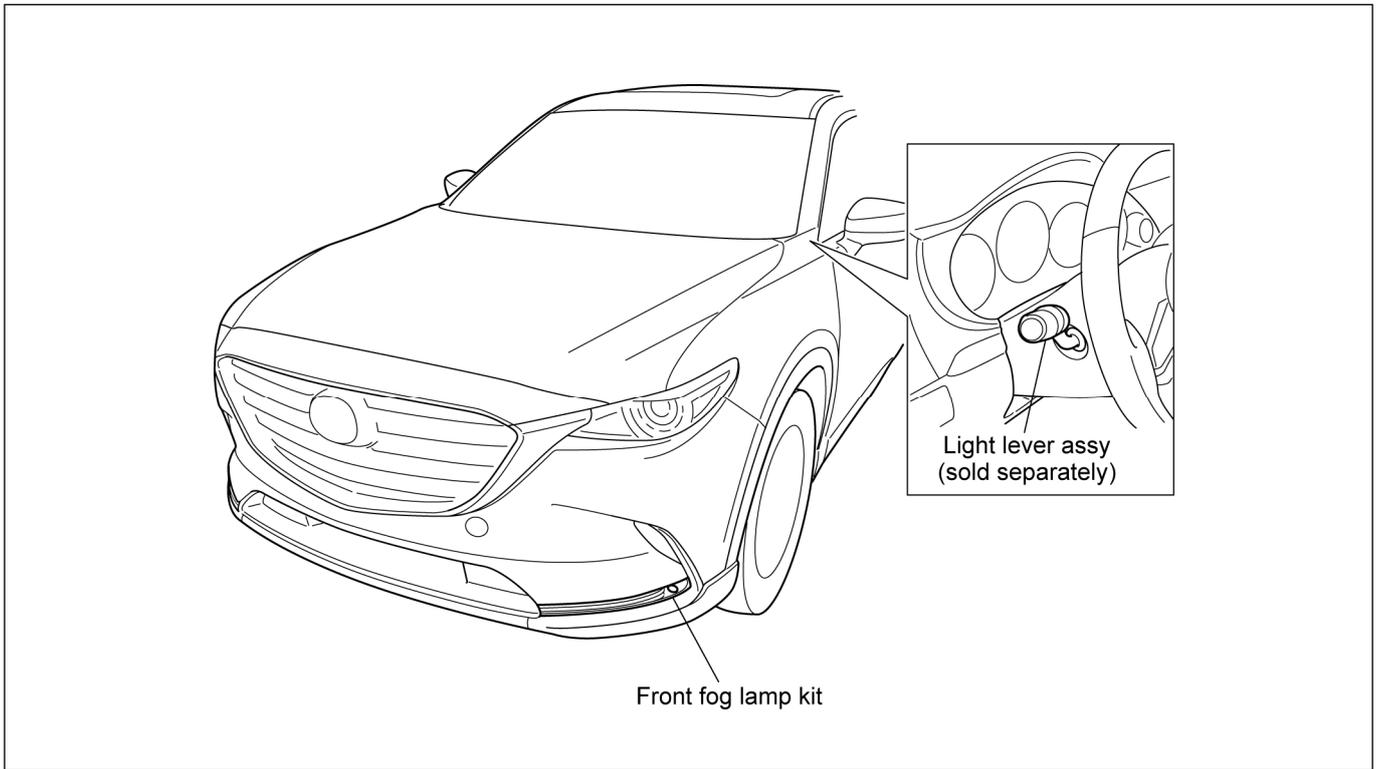
#### To the dealer

- Please turn over these instructions to the customer after installation.

#### To the customer

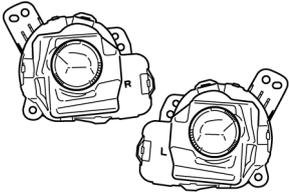
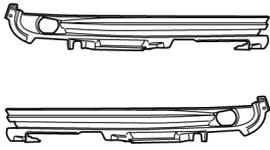
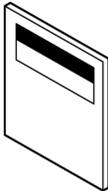
- Keep these instructions after installation. The instructions may be necessary for installing other optional parts or removal of this accessory.
- Should the vehicle or this accessory be resold, Always transfer these instructions to the next owner.

# 1. INSTALLATION VIEW

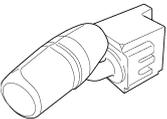


# 2. PARTS

- Before installation, verify that the kit includes all the following parts and that they are free of dirt, scratches, or damage.

| Part  | Part name         | Qty       | Part   | Part name                            | Qty       |
|---|-------------------|-----------|--|--------------------------------------|-----------|
|  | Fog lamp (RH, LH) | Each<br>1 |  | Lamp hole cover (RH, LH)             | Each<br>1 |
|  | Tapping screw     | 6         |  | Installation and user's instructions | 1         |

Sold separately

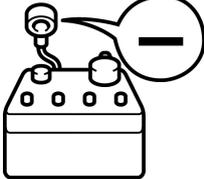
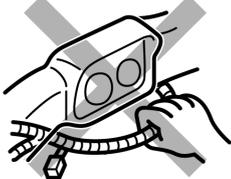
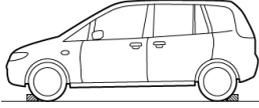
| Part  | Part name         | Qty |
|---|-------------------|-----|
|  | Light switch assy | 1   |

## 3. BEFORE INSTALLATION

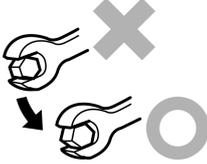
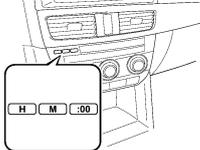
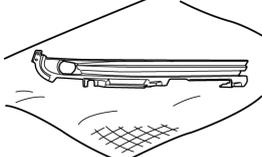
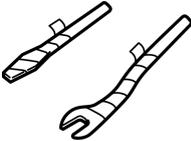
### ■ REQUIRED TOOLS

☆Fastener remover    ☆Torque wrench    ☆Screwdriver (Phillips)    ☆Flathead screwdriver    ☆Socket wrench (10mm)

### ⚠ WARNING

|   |  |   |   |
|---|--|---|---|
| <p>When the negative battery cable is connected during operation, it may cause electric shock or other injuries. Disconnect the negative battery cable before removal/installation.</p> | <p>Do not pull wiring harnesses with excessive force. Doing so can cause breakage or a short circuit-related accident, as well as an electrical short or fire.</p> | <p>Park the vehicle on a flat, level surface, apply the parking brake and block the wheels so that the vehicle does not move during installation.</p> | <p>When connecting/disconnecting connectors, grasp the connectors, not the wires. Otherwise a short, an accident from poor contact or fire may occur.</p> |
|    |   |   |    |

### ⚠ CAUTION

|   |  |   |   |
|---|--|---|---|
| <p>Be sure to cover the vehicle body with protectors or mats to prevent stains, scratches and damage when removing/installing the vehicle parts</p> | <p>Using improper tools may cause damage and or broken parts. Use the correct tool for the installation.</p> | <p>When the negative battery cable is disconnected from the battery, the clock, radio, trip meters and other memories will be erased. Before performing work, record the content of the memory.</p> | <p>Put the removed parts and the parts in the kit on the protective sheet to prevent scratches.</p> |
|    |                           |   |                |
| <p>Wrap protective tape around screwdrivers and fastener remover tools to prevent scratching the vehicle.</p>                                       |  |   |   |
|    |  |   |   |

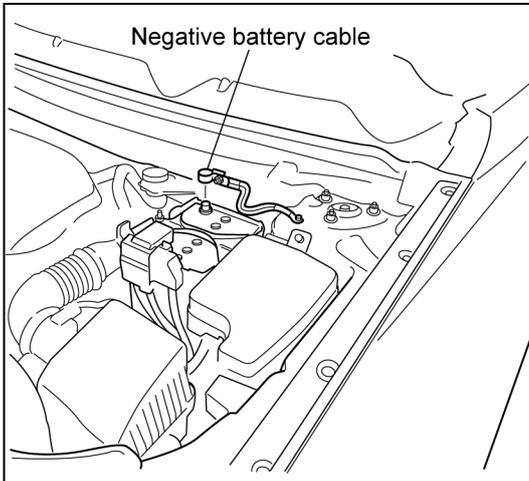
### Advice

|   |
|---|
| <p>Refer to the Workshop Manual for removal and installation of vehicle parts. Not following the procedures for removal/installation in the Workshop Manual could result in an accident or vehicle malfunction.</p> |
|    |

## 4. VEHICLE PART REMOVAL

### ⚠ CAUTION

- Be careful not to damage or lose any parts removed from the vehicle since they will be reused.



### Negative battery cable disconnection

1. Set the selector lever to P range.  
(AT vehicles only)

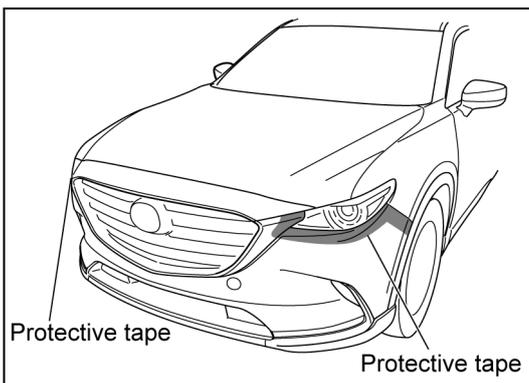
### ⚠ WARNING

- When removing/installing the parts, park the vehicle on level ground and apply the side brake securely. Be sure to turn the ignition switch off, otherwise the vehicle can move, causing injury or vehicle damage.

2. Disconnect the negative battery cable and wrap tape around it to insulate.

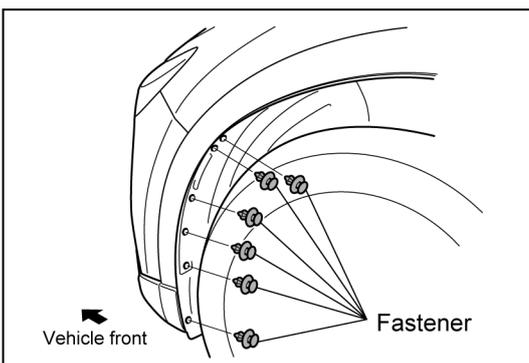
### ⚠ WARNING

- When the negative battery cable is connected during operation, it may cause electrocution or other injuries. Disconnect the negative battery cable before removal/installation.

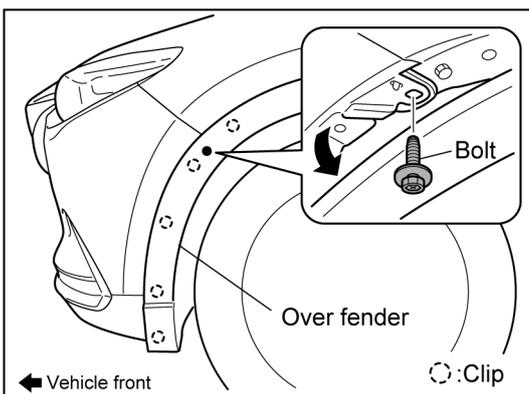


### Front bumper removal

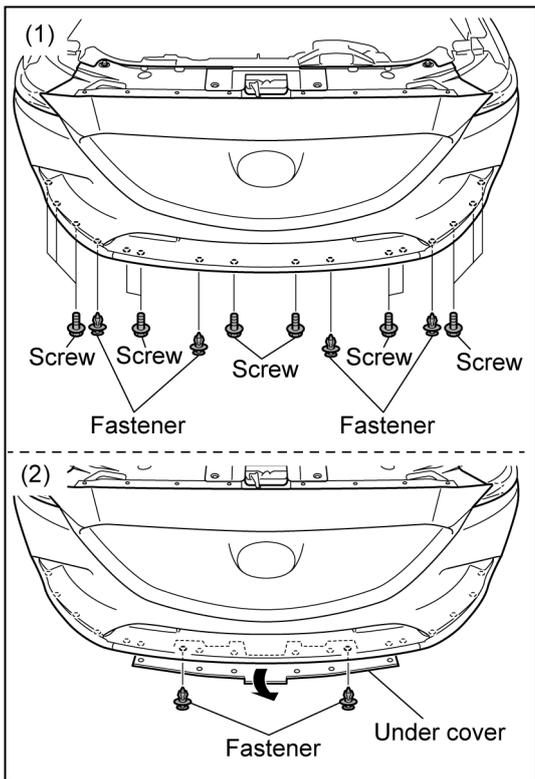
1. Attach protective tape to the front bumper as shown in the illustration at left to protect the vehicle.



2. Remove the six mudguard fasteners.  
(Remove from the opposite side in the same way.)

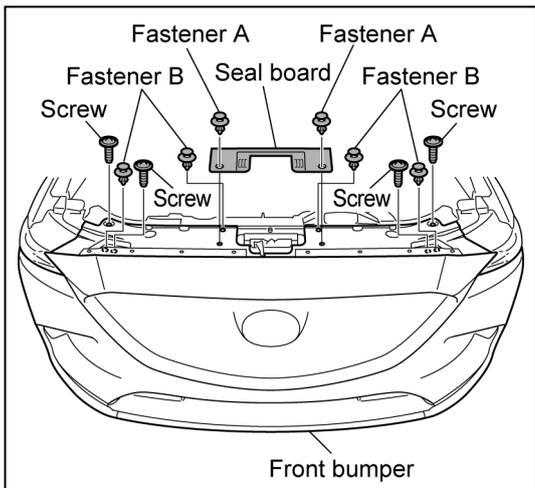


3. Disengage the five over fender clips.
4. Pull the over fender outward, and then remove the bolt.  
(Remove from the opposite side in the same way.)



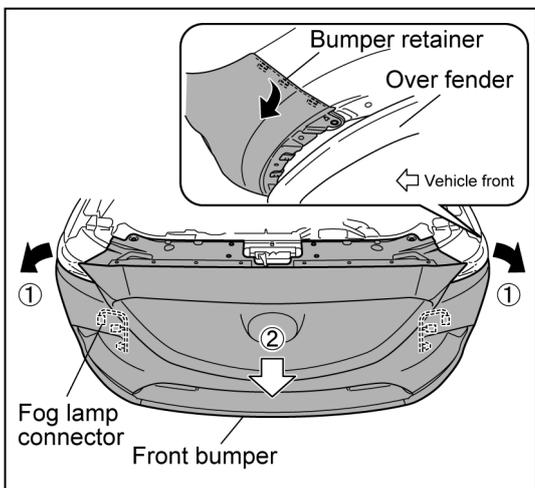
5. Remove the twelve screws and four fasteners from the under cover underneath the bumper. (1)

6. Pull the under cover outward, and then remove the two fasteners. (2)



7. Remove the two fasteners A, and seal board upper cover.

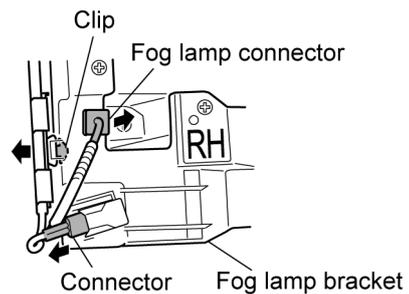
8. Remove the four fasteners B and four screws.



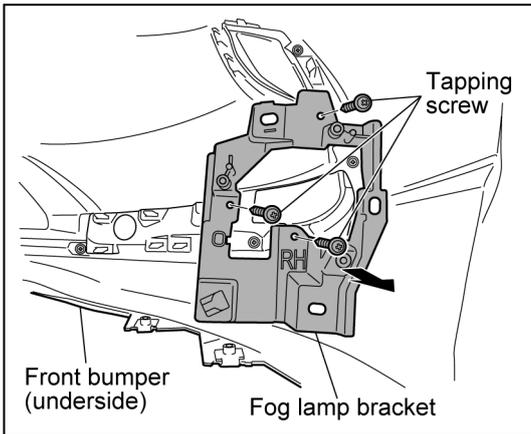
9. Disengage the tabs of the bumper retainers on each side from the front bumper. (Arrows ①)

10. Remove the front bumper. (Arrow ②)

11. Disconnect the fog lamp connector, connector and clip from the fog lamp bracket.



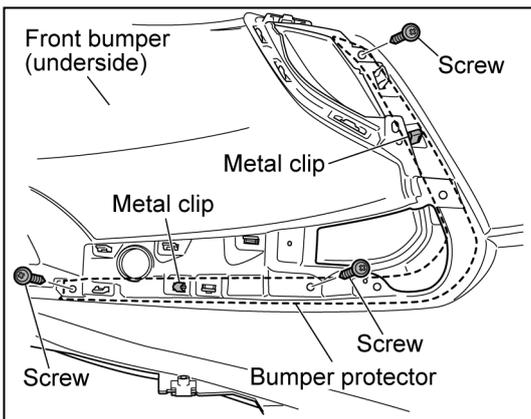
Remove from the opposite side in the same way.



### Fog lamp bracket removal

1. Remove the three tapping screws, and then remove the fog lamp bracket.  
(Remove from the opposite side in the same way.)

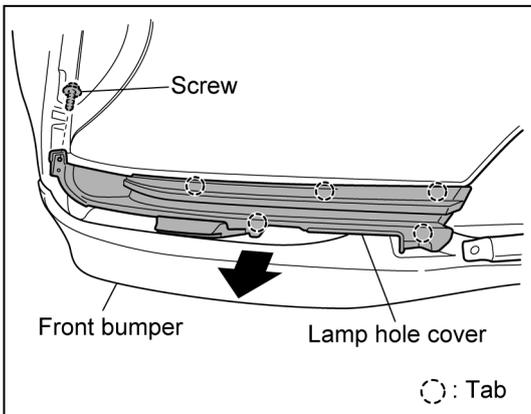
- The removed fog lamp bracket and tapping screws will be reused, so be careful not to lose them.



### Bumper protector removal

1. Remove the three screws.
2. Disengage the two metal clips, and then remove the bumper protector.  
(Remove from the opposite side in the same way.)

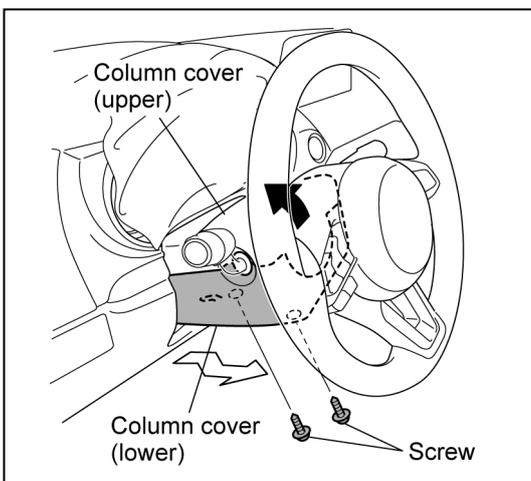
- The removed bumper protector and screws will be reused, so be careful not to lose them.



### Lamp hole cover removal

1. Remove the screw.
2. Disengage the five tabs, and then remove the lamp hole cover.  
(Remove from the opposite side in the same way.)

- The removed lamp hole cover will not be reused.
- The removed screws will be reused, so be careful not to lose them.



### Column cover removal

1. Lower the tilt lever to unlock the steering column.
2. Lower the steering wheel and then pull it forward.
3. Pull the column cover (upper) upward to disengage it.
4. Tilt the column cover (upper) to the meter side.

- Cover the surface of the meter with the protective cloth to prevent it from becoming scratched.

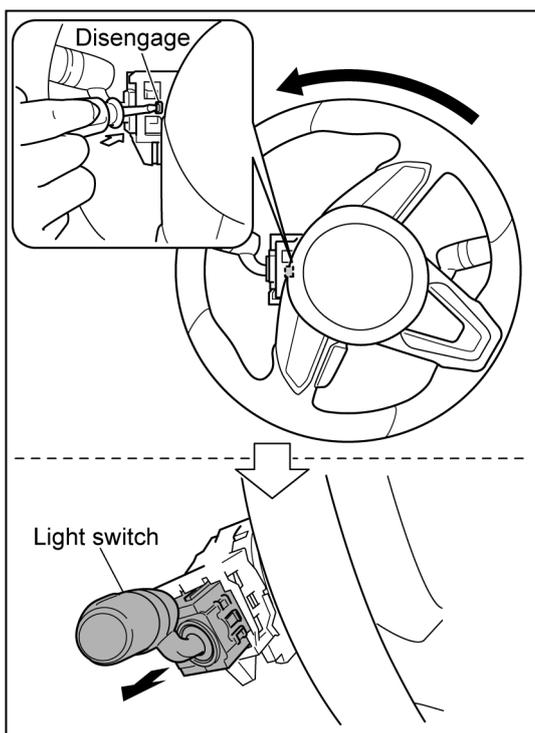
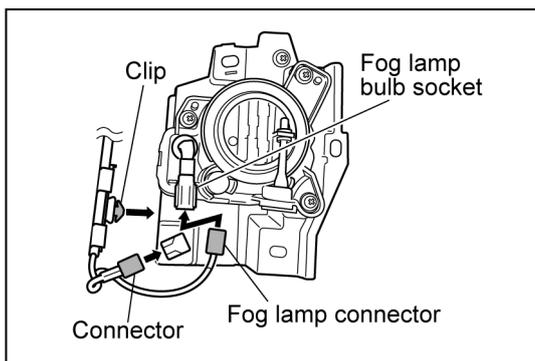
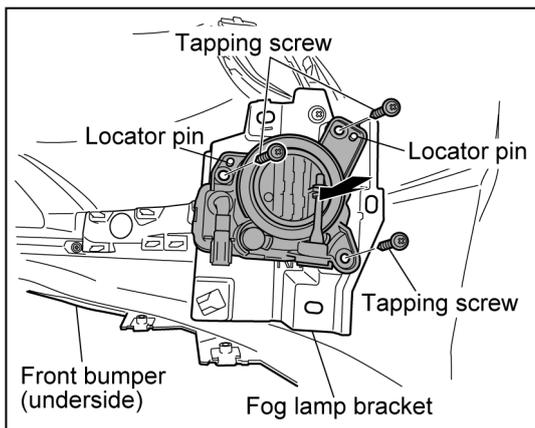
5. Remove the two screws, and then remove the column cover (lower).

- The removed column cover and screws will be reused, so be careful not to lose them.

## 5. INSTALLATION OF THE FOG LAMP KIT

### Fog lamp installation

- Perform the same procedure on the opposite side.



1. Install the new lamp hole cover by following the "Lamp hole cover removal" procedure in reverse.
2. Return the bumper protector to its original position by following the "Bumper protector removal" procedure in reverse.
3. Return the fog lamp bracket to its original position by following the "Fog lamp bracket removal" procedure in reverse.

**Tapping screw tightening torque: (0.3—1.5 N·m)**

4. Install the fog lamp to the fog lamp bracket with the three tapping screws.

**Tapping screw tightening torque: (0.3—1.5 N·m)**

5. Return the connector and the clip which were removed during the "Front bumper removal" procedure (step 11 on page 5) to their original positions.
6. Connect the vehicle-side fog lamp connector to the fog lamp bulb socket.

### Light switch installation

1. Turn the steering wheel (refer to the illustration at left) to disengage the hook of the light switch.
2. Remove the light switch by pulling it in the direction of the arrow.

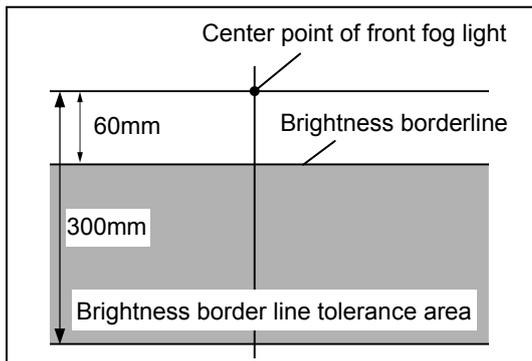
- The removed light switch will not be reused.

3. Install the new light switch by following the procedure for removing the existing light switch in reverse.

### Column cover installation

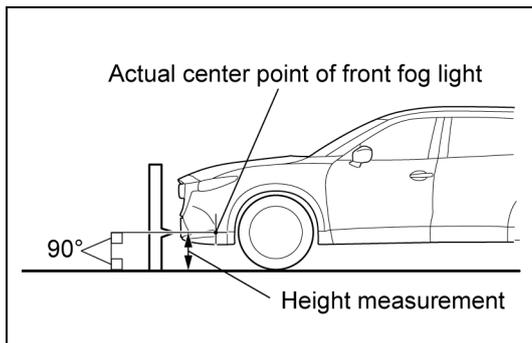
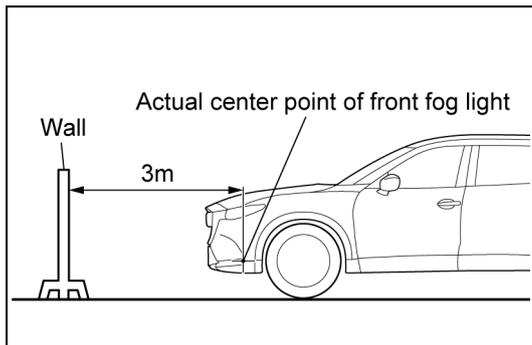
1. Install the column covers by following the removal procedures in reverse.

## 6. FOG LIGHT AIMING



### Front fog light aiming adjustment

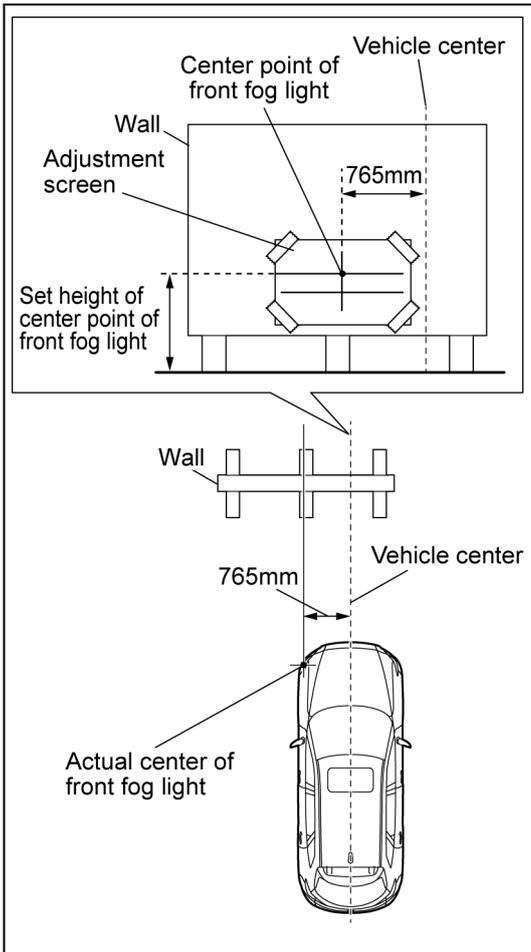
1. Empty vehicle of cargo and passengers to be at standard vehicle equipped weight. (Empty the vehicle except for the spare tire, jack and vehicle tools.)
2. Adjust the tire pressure to the specification.
3. Move the vehicle to level ground.
4. Driver must sit inside vehicle during aiming.
5. Make an adjustment screen as shown in the figure using double-weight, white paper. (Common to both left and right)
6. Line up the vehicle with the wall so that the distance to the fog light is 3 m from the wall.



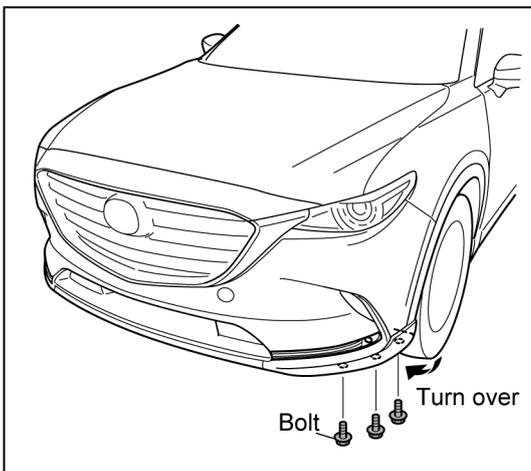
7. Measure the height at the center point of the front fog light.

#### NOTE

- Measure the height at the center point of the front fog light in which the aiming is being adjusted because the vehicle height differs depending on vehicle conditions.

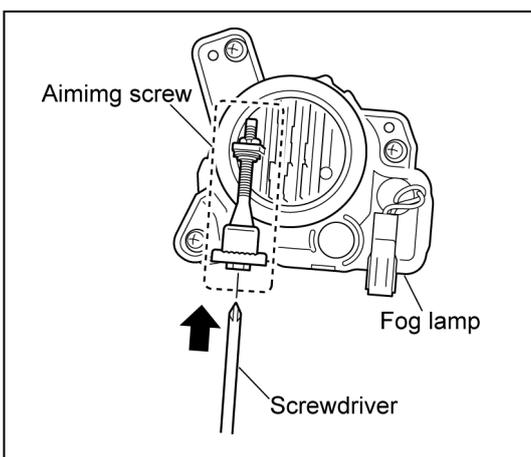


8. Align the center point of the front fog light with the center point of the adjustment screen center point.
9. Set a partition in front of the front fog light which is not being adjusted to block the light.
10. Start the engine and charge the battery.
11. Turn the front fog lights on.
12. Verify that the actual brightness border line (Cut off line) is in the brightness border line tolerance area indicated on the adjustment screen.

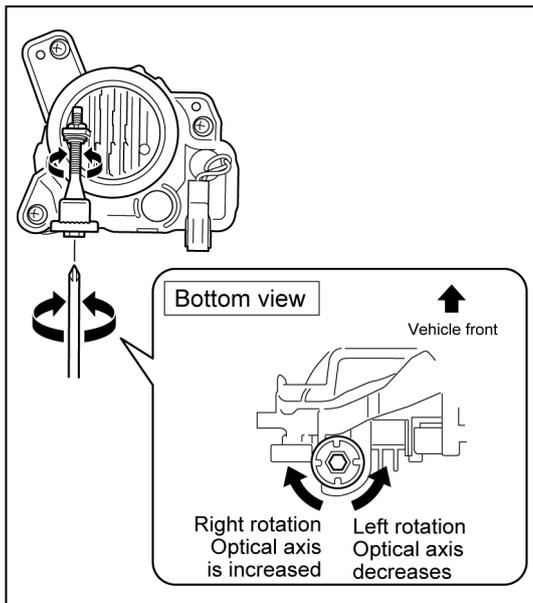


13. If the brightness border line in step 12 is not in the brightness border line tolerance area indicated on the adjustment screen, carry out the following adjustment.

- ① Remove the three front mud guard bolts underneath the front bumper, and then pull the under cover outward.



- ② Insert a screwdriver upward into the aiming screw at the back of the front fog lamp.



- ③ When the screwdriver is turned in the direction of the arrow, the aiming screw turns and the optical axis can be adjusted. Adjust so that the brightness border line is aligned with the brightness border reference line.
- ④ Return the under cover to its original position, and then install the three fasteners.

## 7. OPERATION CHECK

Connect the current sensor connector.

Connect the negative battery cable.

**Nut tightening torque : 4.0—6.0 N·m**

- If the battery would be disconnected, some functions will no longer operate. See the vehicle workshop manual or owner's manual, and perform "Servicing after re-connecting the negative battery cable"
- Turn the ignition switch to ON and check the operation of the fog lamps.

### Fog lamp operation check

1. Turn the headlight switch to  $\Rightarrow \text{D} \Leftarrow$  position, and check if the position (parking) lights are on.
2. Turn the headlight switch to  $\equiv \text{D}$  position, and check if the headlights are on.
3. Push the lighting control lever forward, and check if the high beam headlights are on.  
Pull the lighting control lever back to original position, and check if the high beam headlights are off.  
Check if the headlight high beam indicator light in the instrument cluster illuminates when the high beam headlights are on.
4. Move the turn signal lever down/up, and check if the each turn signals flash.  
Check if the turn signal indicator lights flash during the turn signal lever is down/up position.
5. Turn the headlight switch to  $\Rightarrow \text{D} \Leftarrow$  or  $\equiv \text{D}$  position, and turn the front fog light switch to  $\text{⌘}$  position, then check if the front fog lights are on.
6. Turn the fog light switch to  $\text{⌘}$  and  $\text{⌘}$  position, and check if the front fog light indicator light and the rear fog light indicator light in the instrument cluster illuminates respectively.  
Turn the fog light switch to OFF position, and check if the front and rear fog light indicator lights are off.
7. Turn the headlight switch to  $\equiv \text{D}$  or  $\Rightarrow \text{D} \Leftarrow$  position, and turn the fog light switch to  $\text{⌘}$  position, then check if the rear fog lights are on. (with rear fog lights only)
8. Turn the headlight switch to OFF position, and check if both the front and the rear fog lights are off.