

# GENUINE FOG LAMP KIT

## Using (Installation) Instructions

Applicable model : MAZDA CX-5  
Part number : KD33 V4 600

Thank you very much for buying the Mazda Genuine Parts.

Before removal and installation, you are expected to carefully read these instructions.

To use it in its best conditions, be sure to thoroughly read these instructions for full understanding of the contents and to properly use it.

### < Cautions and Requests >

- ⚠ Caution and ⚠ Warning marks shown in these instructions indicate safety precautions, which you are requested to strictly comply with during installation and use.

**⚠ 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.

- Tighten up with using torque wrench and follow the set torque for the parts indicated with tightening torque in these instructions.
- Always avoid any installation and use that are not stated in these instructions.
- Do not ever alter the product when installing it.
- To ensure safety and reliability of the work, installation work must be carried out by an Authorized Mazda Dealership.
- If you have any questions about the use of the product, 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.
- Be careful not to lose removed parts, and be sure that they are kept free from scratches, grease or other dirt.

#### To the dealer

Please turn over these instructions to the customer after installation.

#### To the customer

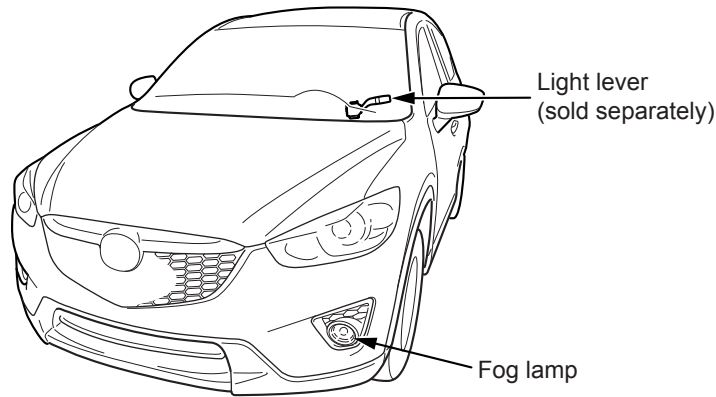
- Keep these instructions after installation. The instructions may be necessary for installing other optional parts or removal of this accessory.
- Should the vehicle or this accessory be resold, always leave these instructions with it for the next owner.

**Mazda Motor Corporation**

3-1, Shinchi, Fuchu-cho, Aki-gun Hiroshima

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## AS-COMPLETED VIEW



2

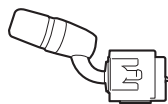
## COMPONENTS

*Refer to EPC for replacement parts.*

Genuine Fog Lamp Kit includes the components below.  
 Make sure that there is no missing component based on the following parts list and check the components for any dirt, scratches or other damage.

No.	Part	Part name	Q'ty	No.	Part	Part name	Q'ty
①	(RH) (LH) 	Lamp hole cover (RH/LH)	1 each	②	(RH) (LH) 	Fog lamp bracket (RH/LH)	1 each
③		Fog lamp (RH)	1	④		Fog lamp (LH)	1
⑤		Tapping screw	6	⑥		Bolt	2
⑦		Screw	2	⑧		Using (Installation) instructions	1

Sold separately



● Light lever  
 ( w/ Auto Light )  
 ( w/o Auto Light )

### 3

## PREPARATORY WORK BEFORE INSTALLATION

Tools used (Have them ready at hand before starting the work)

- ◆ Phillips and flat blade screwdriver
- ◆ Masking tape
- ◆ Fastener remover
- ◆ Socket wrench (10mm)
- ◆ Torque wrench
- ◆ Protective sheet, Protective cloth (clean one)
- ◆ Spanner (10mm)

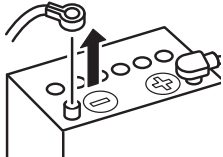




### WARNING

- Make sure that operation is carried out on the level ground with the parking brake and chock block securely set. Otherwise, vehicle may start to move or injury may result.

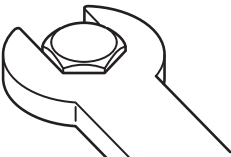
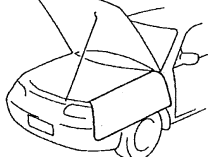
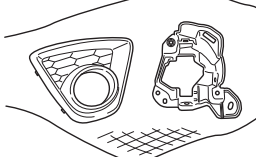


### WARNING

<p>Disconnect the negative terminal of the battery and keep the terminal away from the battery. Otherwise short circuit, and accidents, electric shocks or fire may occur.</p>	<p>Hold the connectors when disconnecting / connecting them to ensure the disconnection / connection. Otherwise, accident or fire caused by breaking or contact failure may occur.</p>	<p>Avoid exercising excessive force when pulling a wiring harness. Otherwise, accident caused by breaking or short-circuit, electrification or fire may occur.</p>
		



### CAUTION

<p>Use right tools appropriate for the purpose and size of the work to be done to ensure proper execution of the work.</p>	<p>Use a mat or any other protective material when removing / installing components.</p>	<p>Place the removed parts and components on a protective sheet or equivalent to avoid any damage on such parts/components.</p>
		

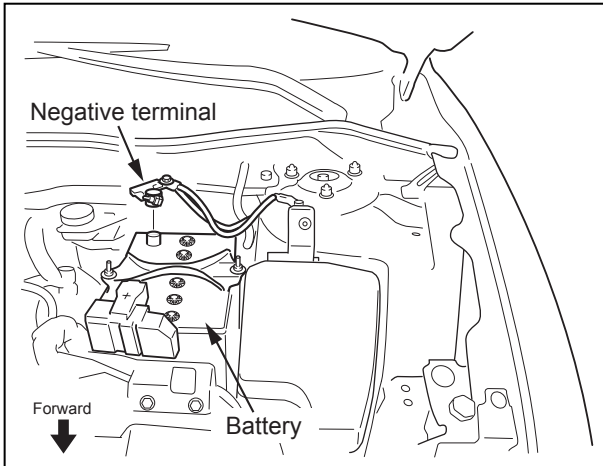
### NOTE

- When the negative terminal of the battery gets disconnected, the memory of clock, radio and trip counter will be erased. Record the memory contents before starting the work.
- As for the removal or installation of vehicle parts, please refer to the vehicle workshop manual.

## REMOVING THE VEHICLE COMPONENTS

### NOTE

- Since the removed components are to be reused when reassembling, keep them in a manner that will tell where to reinstall.
- Place the removed vehicle parts on a protective sheet to avoid any damage on the parts.



### Disconnecting the negative terminal

1. Disconnect the negative terminal of the battery following the instructions below.
  - ① Make sure that headlight, air conditioner and other devices are switched off.
  - ② Disconnect the negative terminal of the battery.



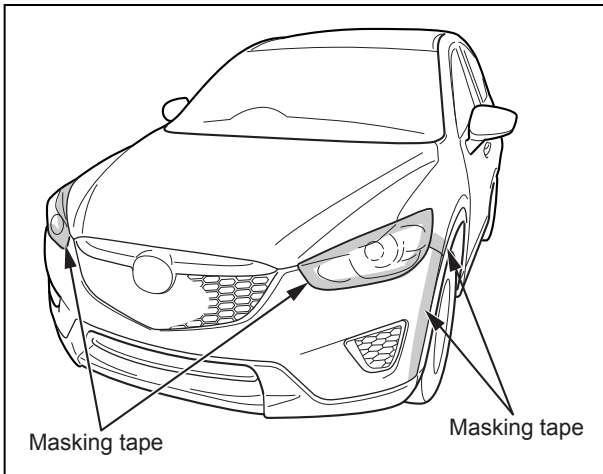
### CAUTION

Bolt : Tightening torque 4.0~6.0 N·m (when restored)



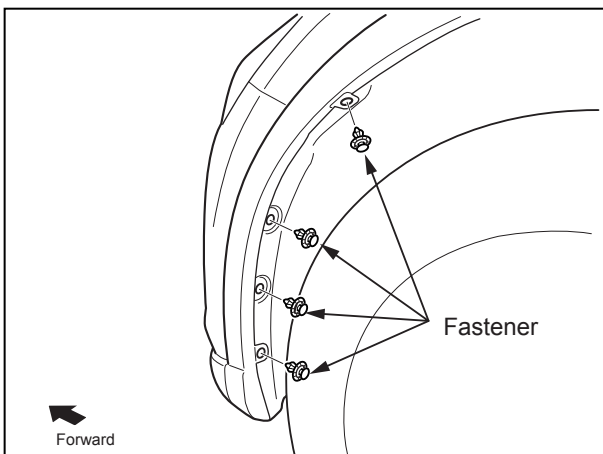
### WARNING

- Disconnect the negative terminal of the battery before starting the work and prevent it from contacting the terminal. Otherwise, damage to the parts, electrification or injury caused by short-circuit may occur.



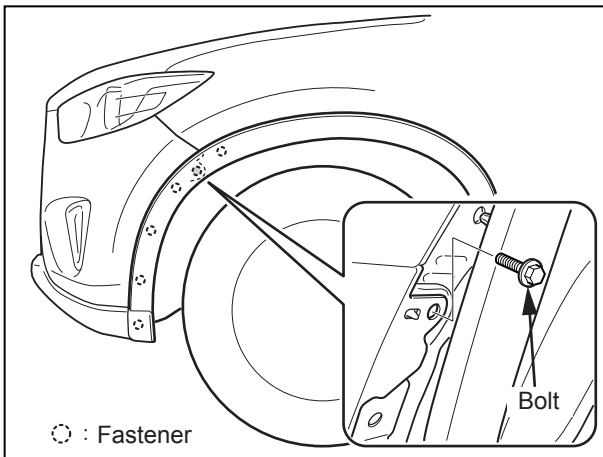
### Protecting the vehicle

1. Apply the masking tape around both sides of fenders, over fenders and headlight in order to protect the vehicle from scratching or damage. (Shaded area in the left figure)



### Removing the front bumper

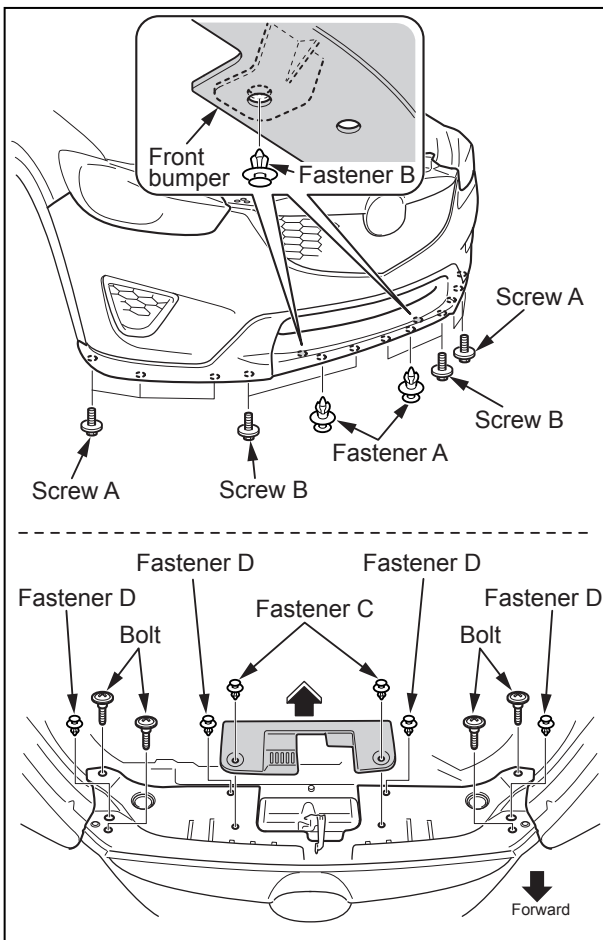
1. Remove the fastener (four places) on the mudguard. (Perform the same procedure on the right side.)



2. Remove the fastener (only five places) on the over fender.
3. Turn up the over fender and remove the bolt (one place) using a screw wrench.  
(Perform the same procedure on the right side.)

### NOTE

- Be careful not to bend over fender outward too much when removing the bolt. Otherwise, over fender will break and get bleached.



4. Remove the screw A (each three places of both sides) and screw B (each two places of both sides) at the bottom of the bumper.
5. After removing the fastener A (each one place of both sides), turn over the under cover and remove fastener B (each one place of both sides) at the behind it.
6. Remove the fastener C (each one place of both sides) at the top of the bumper.
7. Remove the upper seal board and remove the fastener D (each two places of both sides).
8. Remove the bolt (each two places of both sides).



### CAUTION

Bolt : Tightening torque 4.0~9.8 N · m (when restored)

9. Pull the front bumper in the direction of the arrow (1) and disconnect the tabs which support the bumper from the bumper.

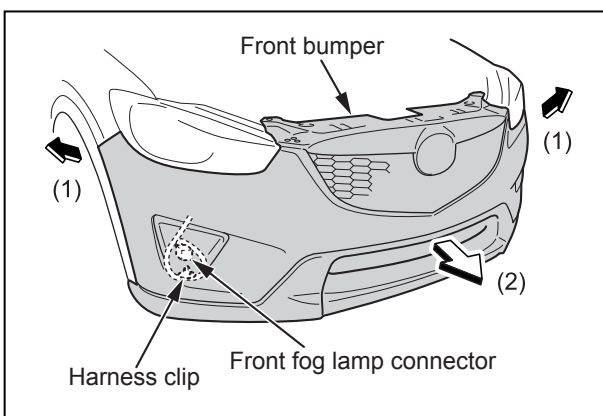
- Hold the bumper and be careful not to drop it when disconnecting it.

10. Remove the front bumper by pulling it in the direction of the arrow (2).

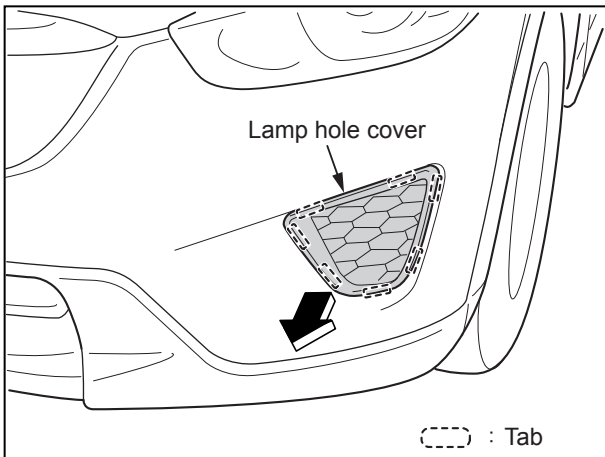


### WARNING

- Be sure not to pull the front bumper hard because it is connected to the front fog lamp harness. Otherwise, accident caused by breaking, short-circuit, electrification or fire may occur.



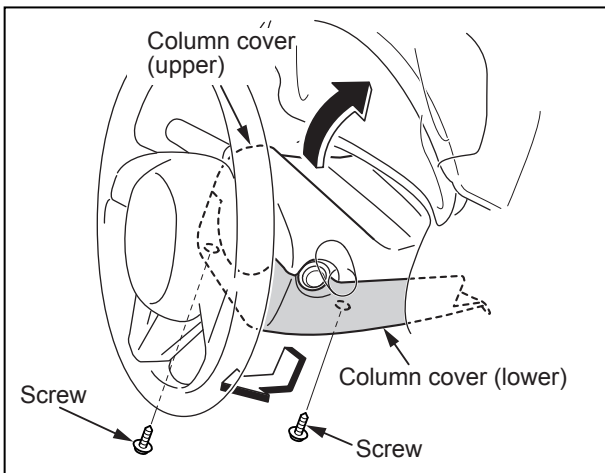
11. Disconnect the front fog lamp connector and the harness clip (each one place of both sides) that are on the back surface of the lamp hole cover.



### Removing the lamp hole cover (RH/LH)

1. Disconnect the tab (seven places) and remove the lamp hole cover in the direction of the arrow.  
(Perform the same procedure on the opposite side.)

- The removed lamp hole cover will not be used with this product.



### Removing the column cover (upper, lower)

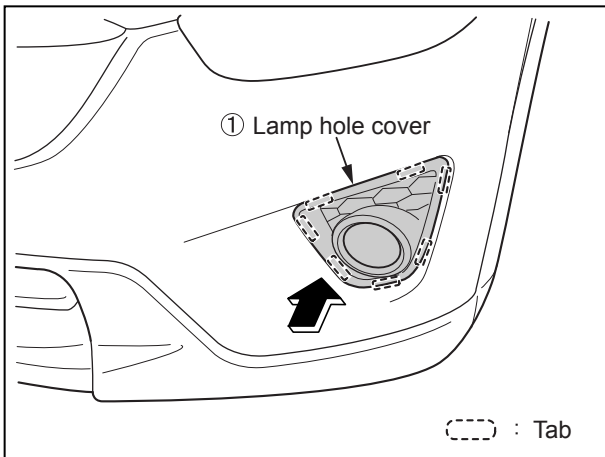
1. Release the lock by pulling the tilt lever down.
2. Hold down the steering wheel and pull it forward.
3. Remove the column cover (upper) by pulling it up.
4. Tilt the column cover (upper) toward to the meter.

#### NOTE

- Cover the surface of the meter with protect cloth to avoid scratching or damage.
5. Remove the screw (two places) and remove the lower cover.

## 5

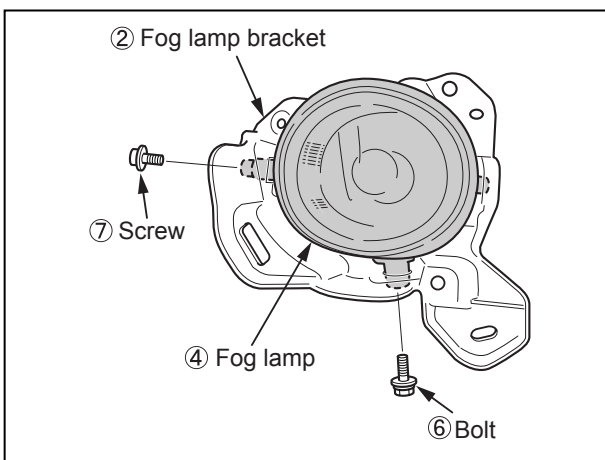
## INSTALLING THE FOG LAMPS

**NOTE**

- The procedures shown here is for the left-hand side only. Use the same procedure for the right-hand side.

**Installing the lamp hole cover (RH/LH)**

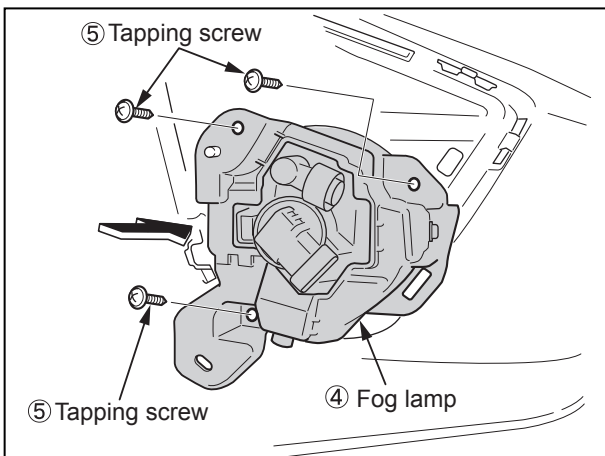
1. Install the ① lamp hole cover in the reverse order of removing it.

**Installing the fog lamp (RH/LH)**

1. Secure the ④ fog lamp to the ② fog lamp bracket with the ⑥ bolt (one) and ⑦ screw (one).

⑥ Bolt : Tightening torque (1.0~3.4 N·m)

⑦ Screw : Tightening torque (0.4~1.5 N·m)

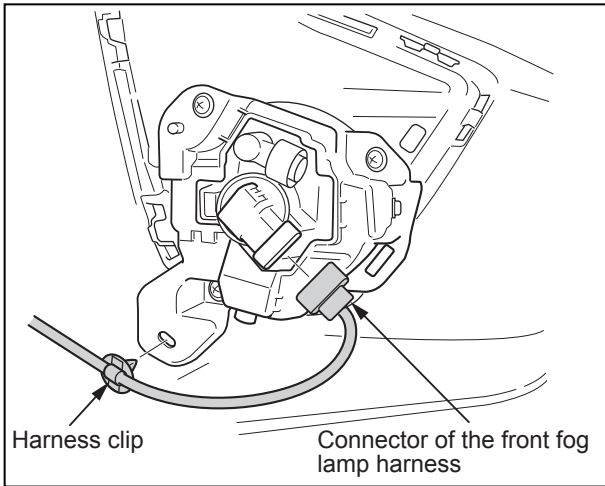


2. Secure the ④ fog lamp to the front bumper with the ⑤ tapping screw (three places).

⑤ Tapping screw : Tightening torque (0.4~1.5 N·m)

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## RESTORING THE VEHICLE COMPONENTS



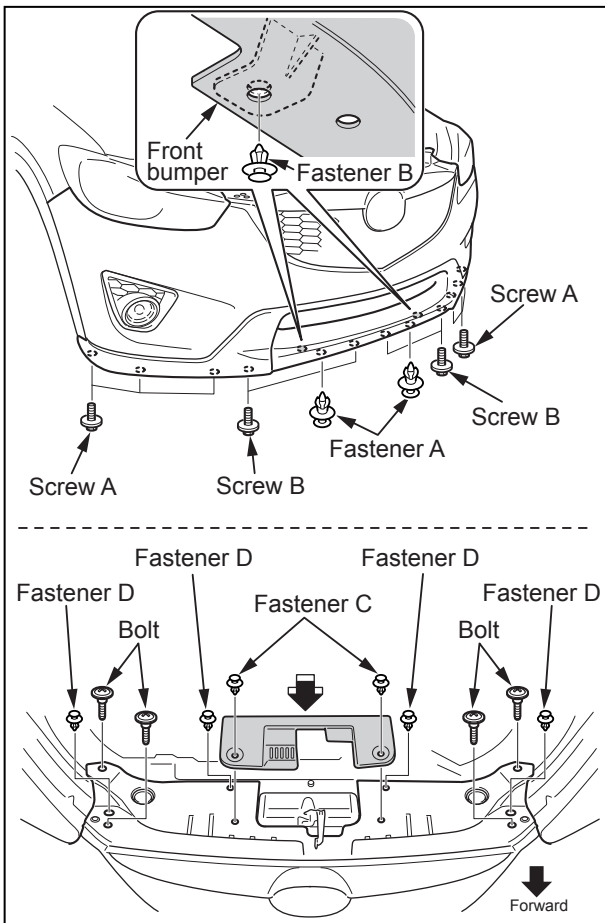
### Restoring the front bumper

1. Connect the connector of the front fog lamp harness, which is removed when removing the front bumper, and harness clip to the ③④ fog lamp.



### WARNING

- When connecting the harnesses, insert the connectors firmly until they lock securely into place. Otherwise, fire or accidents by disconnection/poor contact may occur.



2. Install the front bumper in the reverse order of removing it. (See the item "Removing the front bumper" in the page 4 to 5.)

### NOTE

- Be sure to tighten the screw A at the bottom of the bumper after aiming adjustment is completed.

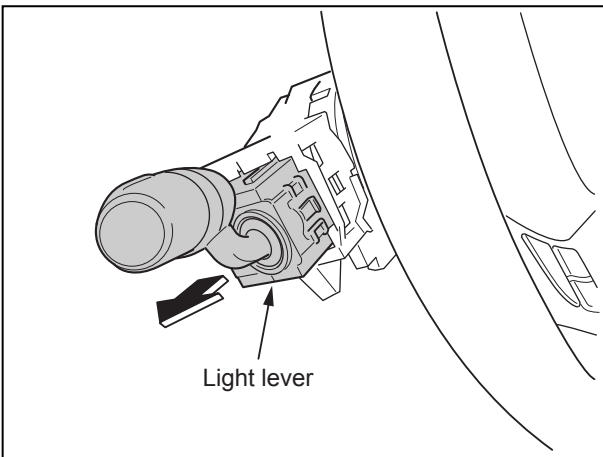
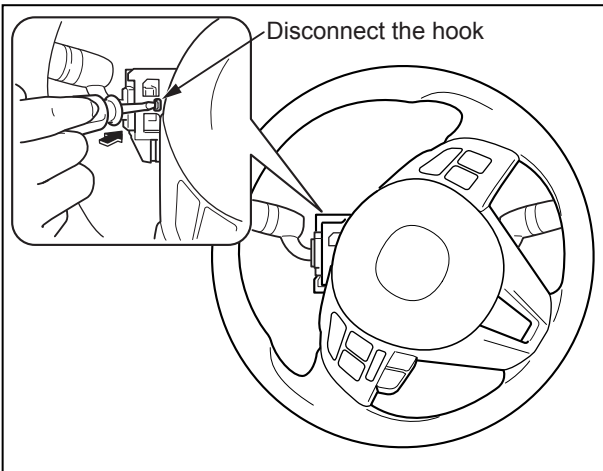
3. Remove the masking tapes.



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## INSTALLING THE LIGHT LEVER

(※Light lever is sold separately.)



### Removing/installing the light lever

1. Twist the wheel (see the left figure) and disconnect the hook of light lever.

2. Remove the existing light lever in the direction of the arrow.

- The removed light lever will not be used with this product.

3. Install the light lever (sold separately) in the reverse order of removing it.
4. Perform an operation check.  
(See the item "8. CHECKING OPERATION".)

### Installing the column cover

1. Install the column cover (upper, lower) in the reverse order of removing them.  
(See the item "Removing the column cover (upper, lower) in the page 6".)

## 8








## CHECKING OPERATION

**WARNING**

- When starting the engine, clear area of all individuals around the vehicle or engine room. Serious accident may occur if the vehicle makes sudden movements.
- Do not start the engine in the place with bad ventilation such as garage. Exhaust gas can cause intoxication and suffocation.


1. Reconnect the negative terminal of the battery.
2. Install the battery cover in the reverse order of removing it.
3. Perform an operation check following the instructions below.

## &lt;Operation check procedures&gt;

1. Turn the headlight switch to  position, and check if the position (parking) lights are on.
2. Turn the headlight switch to  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. Set the lighting control lever on the low beam position and turn the fog light switch to  position, then check if the fog lights are on.
6. Turn the fog light switch to  position, and check if the fog light indicator light in the instrument cluster illuminates. Turn the fog light switch to OFF position, and check if the fog light indicator light is off.
7. Turn the headlight switch to either  position or  position with high beam, check if the fog lights are off even the fog light switch is  position.
8. Turn the fog light switch to OFF position or turn the headlight switch to OFF position, and check if the fog lights are off.

YES 

If operation is normal, this completes the procedure.

NO 

&lt;Please to check if operation is incorrect&gt;

- Check that none of the harnesses are clamped.
- Check that all connectors are connected correctly.

**[i-stop vehicle]**

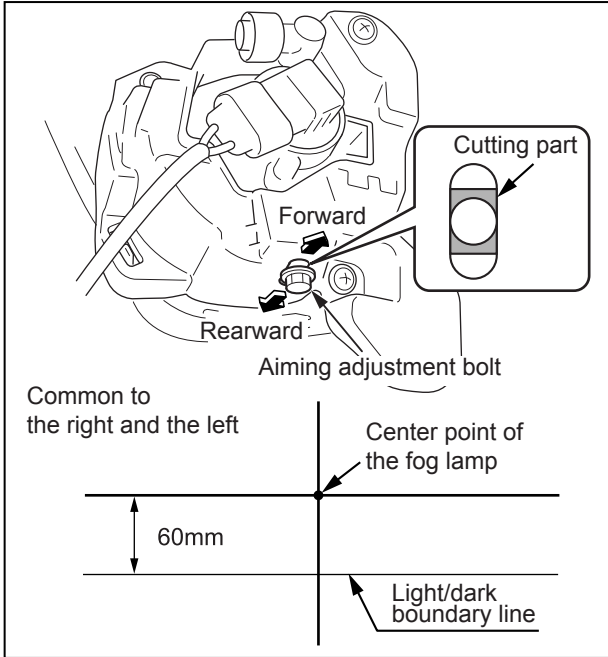
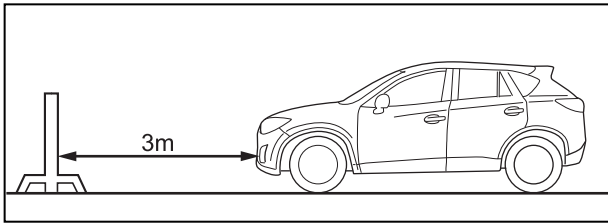
- **When the battery is disconnected, i-stop function will not be working**  
**See the vehicle workshop manual and perform "Work after connecting the battery negative terminal".**

**[Common]**

- **When the battery is disconnected, the windows will not fully open and close automatically.**  
**Perform the following procedure to resume operations.**
  1. Turn the ignition switch to the ON position.
  2. Press the switch and fully open the window.
  3. Pull the switch and continue holding for about 2 seconds to fully open the window.
  4. Check if the windows fully open and close automatically.
    - ※ If the function does not operate even after the ignition switch is turned off, contact an Authorized Mazda Dealer.
- **Disconnecting the battery resets the default set value of TPMS (Tire Pressure Monitoring System), and system may not be operating correctly.**  
**Perform the following procedure to resume operation.**
  1. Adjust the air pressure of the tires. (Check the label for the air pressure of the tires. It is attached at the body side when driver side door is opened.)
  2. Turn the ignition switch on.
  3. Press the TPMS (SET) switch. (Press and hold it until TPMS warning light of the meter flashes twice and bleeps once.)
  4. Turn of the ignition switch off.

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## AIMING ADJUSTMENT



1. Inflate the tires to the standard pressure.
2. Empty the vehicle and park it on the level surface.
3. Have one person sit in the driver's seat.
4. Place a screen perpendicularly in front of the vehicle so that there is a distance of 3 meters between the screen and the fog lamps.
5. Cover the fog lamp that is not being adjusted.
6. Start engine to charge the battery.
7. Illuminate the fog lamps.
8. If they operate properly, this is the end of the adjustment. (If not, go to the item 9.)
9. Remove the aiming adjustment bolt and cut off the rib of the lamp hole cover.
10. Loosen the aiming adjustment bolt and adjust the position of the fog lamp so that it is within the light/dark boundary line as shown in the diagram.

**Bolt : Tightening torque (0.4~1.5N·m)**

### NOTE

- Because any looseness in the adjustment bolt can result in the aiming becoming misaligned, be sure to turn the bolt in the direction of tightening when adjusting.

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## FOG LAMP BULB REPLACEMENT

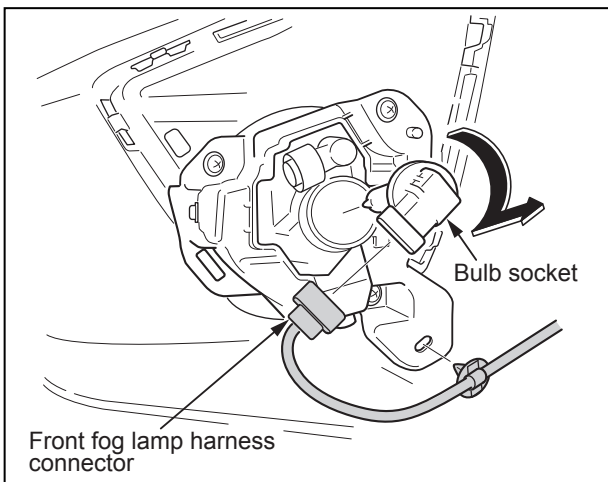


### WARNING

- Use the following bulbs as replacement fog lamp bulbs. **Part No.: 90703 7550 [H11 12V 55W]** or the accessory catalog-specified bulbs. Always be sure to use the properly-specified bulb. If an incorrect bulb is used, it may result in fire.

### NOTE

- Replacement of the bulbs should be carried out by a specified agent.
- When replacing a light bulb, hold the flange and do not touch the glass part of the light bulb. Otherwise, bulb life may be decreased because of the oil.



1. Start the engine and turn the wheel fully in the opposite direction of the adjusted bulb.
2. Remove the screw A at the bottom of the bumper.
3. Push the tabs of the fog lamp harness connector and disconnect the connector.
4. Rotate the socket to remove it. Pull out the fog lamp bulb. (See the item 1 to 4 : the vehicle instruction manual (in case of blowout).
5. Replace the fog lamp bulb with a new bulb.

# Installation inspection sheet

**【For the installation workshop】**

MAZDA CX-5	FOG LAMP KIT
	KD33 V4 600

Item	Check
Check if the fog lamps are on/off as operating condition.	
Check if the light switch operates properly. (Headlight, turn signal, automotive light)	
Check if the light distribution has no problems.	
Check if the i-stop operates properly.	
Check if the AUTO function of the power window operates properly.	
Check if the TPMS (Tire Pressure Monitoring System) is set.	
Battery : Check if the tightening torque of fixing nut for the negative terminal is followed. Battery : Tightening torque of fixing nut for the negative terminal: <b>4.0~6.0N·m</b>	
Check if the tightening torque of fixing bolt (each two bolts of both sides) at the top of the bumper is followed. Tightening torque of fixing bolt at the top of the bumper : <b>4.0~9.8N·m</b>	

## Fog lamp kit installation inspection

Date		(year/month/day):			
VIN No.					
Approved		Checked		Prepared	

※ Retention period of the sheet : 36 months