

# GENUINE FOG LAMP

## Using (Installation) Instructions

Applicable model : MAZDA 5

Part Number : CG36 V4 600 (North America)

CG15 V4 600 (EC · UK · 4A)

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 read thoroughly 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 safely 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 in if the caution is ignored.

- Do not install the product in any way other than described in the following instructions.
- Do not modify the product.
- To ensure safety and reliability of the work, installation, removal and disposal work must be carried out by an authorized Mazda Dealership.
- If you have any questions about the use of the accessory, ask your Mazda dealer for proper advice before using it.
- We may not accept the liability for any problems that might have occurred due to incompliance with these instructions.
- Be careful not to lose removed parts, and be sure 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

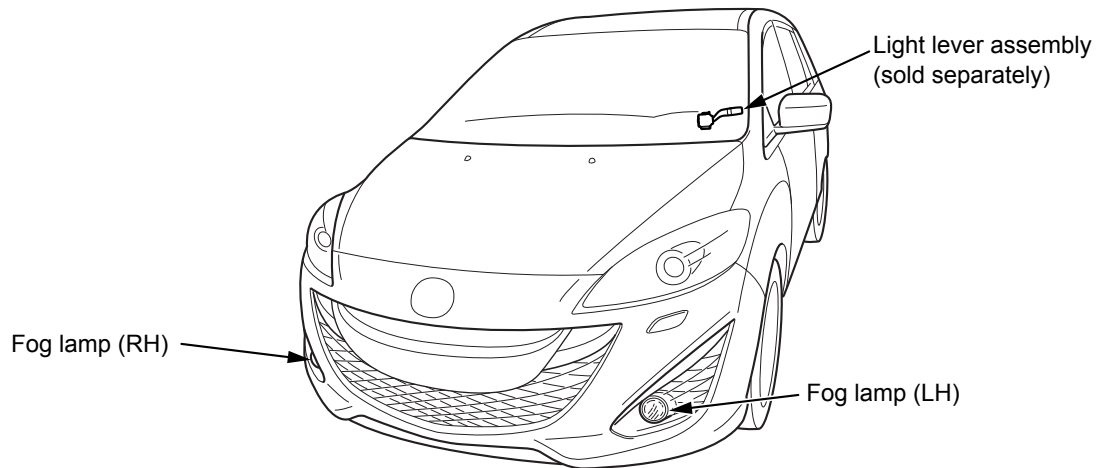
- Keep these instructions after installation. The instructions may be necessary for installing other optional parts or removal of this accessory.
- Should the vehicle or this accessory be resold, always leave these instructions with it for the next owner.

**Mazda Motor Corporation**

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

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## AS-COMPLETED VIEW



2

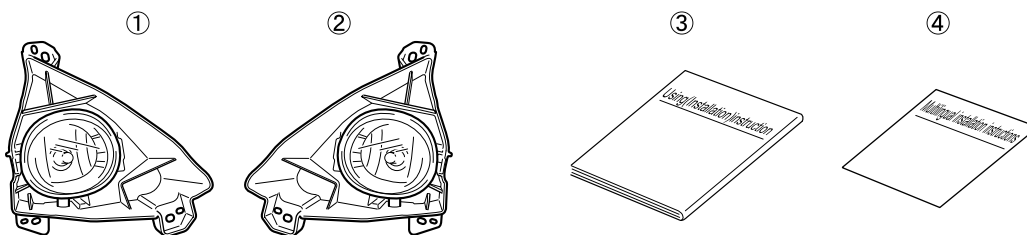
## COMPONENTS



### CAUTION

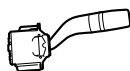
Make sure that there is no missing component based on the following parts list and check the components for any dirt, scratches or other damage.

No.	Part name	Q'ty
①	Fog lamp (RH) Same as OE. Check catalog for part number	1
②	Fog lamp (LH) Same as OE. Check catalog for part number	1
③	Installation (using) instructions	1
④	Multilingual installation instructions	1



Sold separately

● Light lever assembly



※Check catalog for applicable part number

### 3

## PREPARATORY WORK BEFORE INSTALLATION

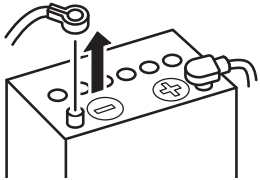

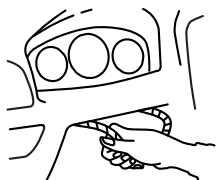
Tools used (Have them ready at hand before starting the work)

- ◆ Phillips screwdriver
- ◆ Fastener remover
- ◆ Protective sheet
- ◆ Clean cloth
- ◆ Plastic bag or equivalent (Vehicles with head lamp washer only)
- ◆ Masking tape
- ◆ Socket wrench (8mm, 10mm)
- ◆ Torque wrench
- ◆ Wheel block

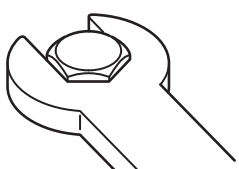
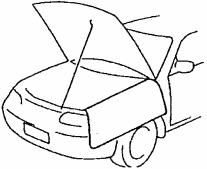
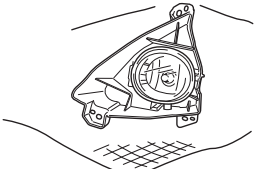
### ! WARNING

- 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>
		

### ! CAUTION

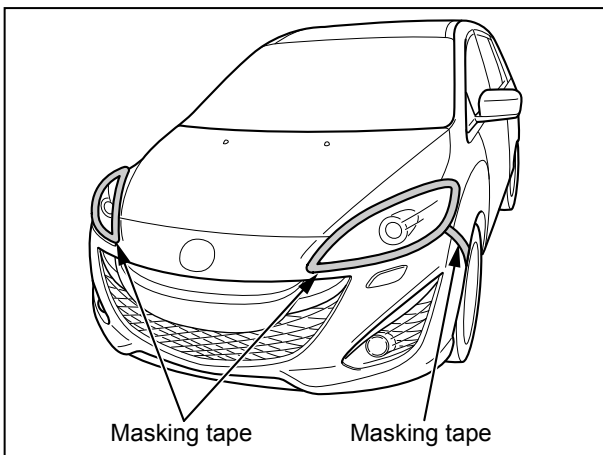
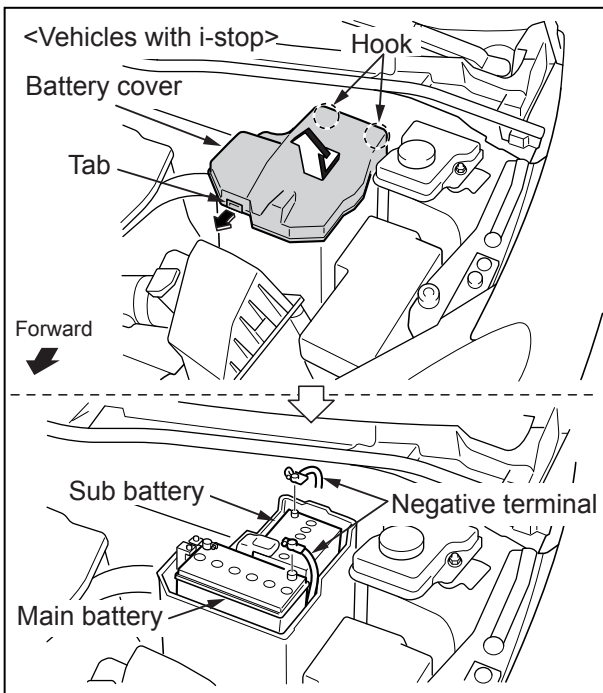
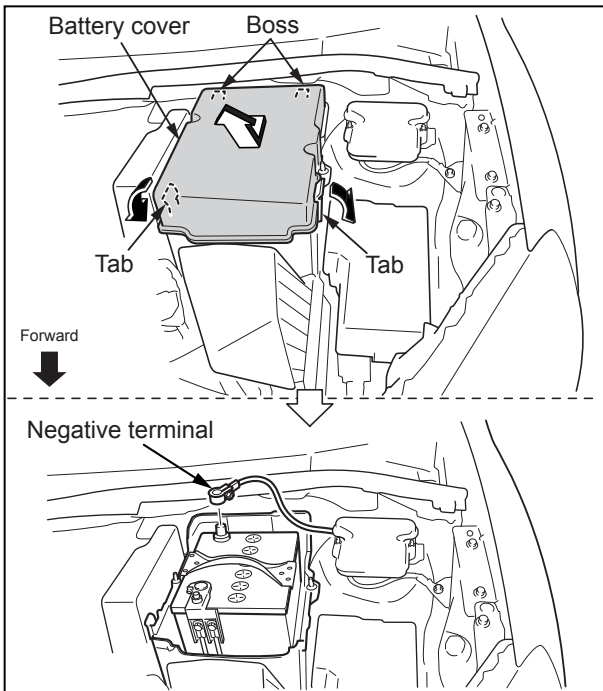
- When the negative terminal of the battery gets disconnected, the memory of clock, radio and trip counter will be erased. Record the memory contents before starting the work.
- **When tightening a bolt, nut and screw, be sure to use torque wrench and tighten properly. Otherwise, improper connection, breakage or damage of the installed parts may occur.**

### NOTE

- As for the removal or installation of vehicle parts, please refer to the vehicle workshop manual.

# 4

## REMOVING THE VEHICLE COMPONENTS



### CAUTION

- 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 headlights, air conditioner and other devices are switched off.
  - ② Disconnect the tabs (two places) on the front surface of the battery cover.
  - ③ Disconnect the bosses (two places) on the back surface of the cover in order to remove it.
  - ④ Disconnect the negative terminal of the battery.

### <Vehicles equipped with the i-stop system>

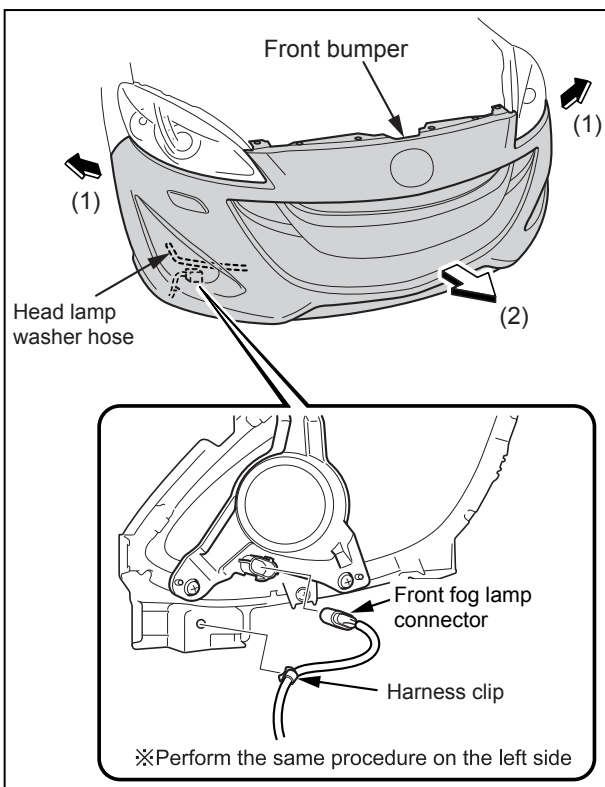
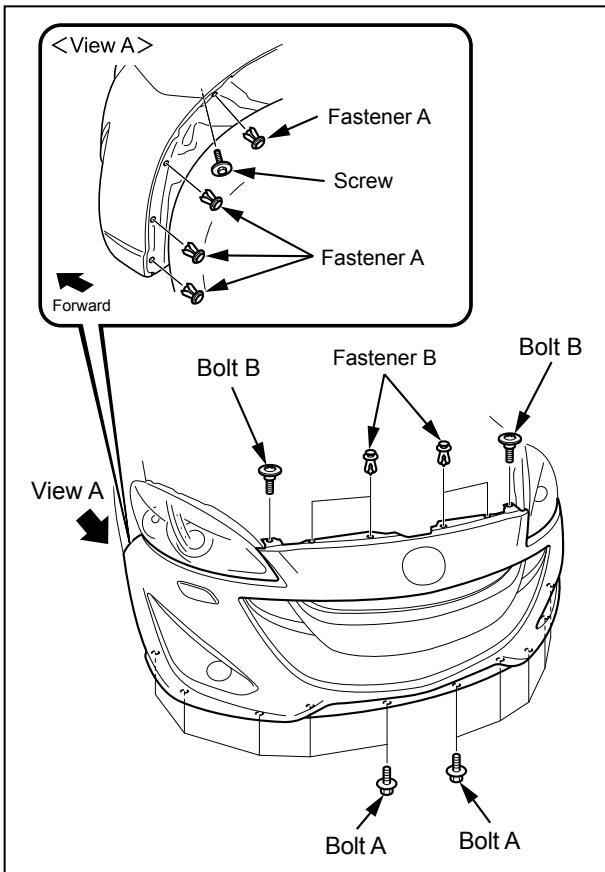
1. Disconnect the negative terminal of the main battery and the sub battery following the instructions below.
  - ① Make sure that headlamp, air conditioner and other devices have been switched off.
  - ② Disconnect the tab (one places) on the front end of the battery cover.
  - ③ Disconnect the hooks (two places) on the rear end of the battery cover in order to remove it.
  - ④ Disconnect the negative terminal of the battery.

### WARNING

- For the vehicles equipped with i-stop system, be sure to disconnect the negative terminal of both main and sub batteries.
- Keep the terminal away from the battery after disconnecting the negative terminal of the battery. Otherwise, electrification or injury caused by short-circuit accident may occur.

### Protecting the vehicle

1. Apply masking tape around the headlights and the fenders to protect the components and vehicle. (Shaded area in the left figure)



## Removing the front bumper

1. Remove the bolts A (ten places) at the bottom of the bumper.

### Tightening torque

**Bolt A : 1.0~2.0N · m (When restored)**

2. Remove the fasteners A (four places) and the screw (one place) on the mud guard on the both sides of the bumper.

(Perform the same procedure on the opposite side)

### Tightening torque

**Screw : 1.0~1.5N · m (When restored)**

3. Remove the fasteners B (four places) and the bolts B (two places) on the upper edge of the bumper.

### Tightening torque

**Bolt B : 6.9~9.8N · m (When restored)**

4. Disconnect the front bumper from the tabs of the bumper retainer by pulling the bumper in the direction of the arrow (1).

### CAUTION

- Be careful not to drop the bumper when disconnecting it.

5. Remove the front bumper from the vehicle by pulling it in the direction of the arrow (2).

### CAUTION

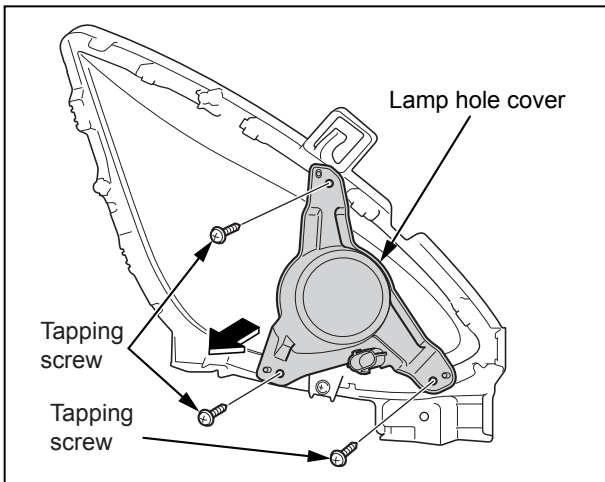
- Avoid pulling the front bumper hard when removing it. Front fog lamp harness is connected to it.

6. Place the plastic bag under the hose from the head lamp washer, and then disconnect the hose to drain it. **(Vehicles with head lamp washer only)**

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

### CAUTION

- 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.



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

1. Remove the tapping screws (three places).



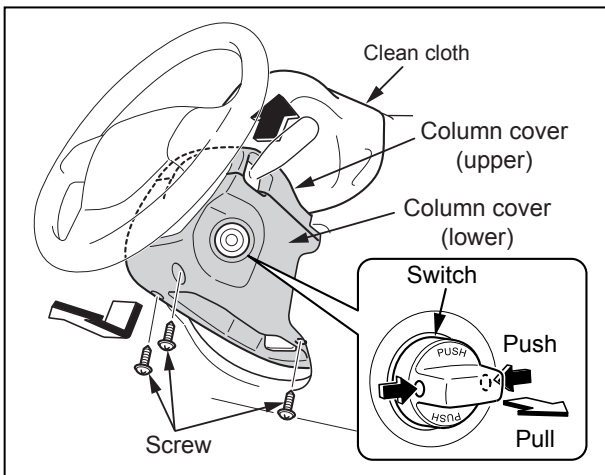
#### CAUTION

- Be careful not to lose or damage the removed tapping screws since they are to be reused later.

2. Remove the lamp hole cover in the direction of the arrow.
3. Perform the same procedure on the opposite side.

#### NOTE

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



### Removing the column covers

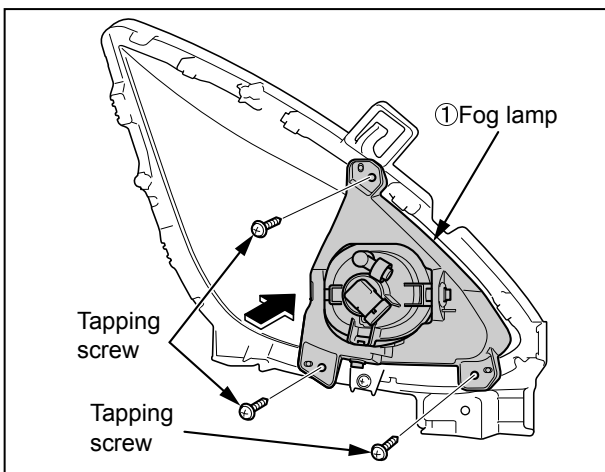
1. Press the buttons at the left and right of the switch to remove the switch.  
(Vehicles with advanced key-less system only)
2. Release the lock by pulling the tilt lever down.
3. Turn the steering wheel down and pull it forward.
4. Lock the tilt lever.
5. Cover the meters with a clean cloth.
6. Disconnect the tab of the column cover (upper) by pulling it up.
7. Remove the screws (three places) and pull the column cover (lower) to remove it.

#### Tightening torque

Screw : 0.3~1.5N · m (When restored)

## 5

## INSTALLING THE FOG LAMP



### Installing the fog lamps (RH/LH)

1. Fix the ① fog lamp with the tapping screws (three places : reused) in the reverse order of removing the lamp hole covers.

#### Tightening torque

Tapping screw : 0.3~1.5N · m



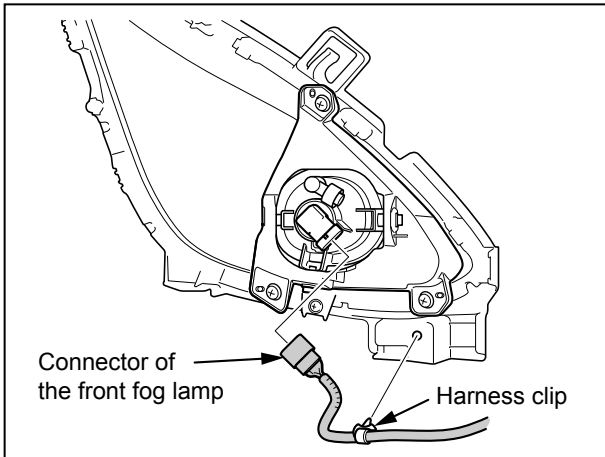
#### CAUTION

- If you fasten with those torques other than specified, the fog lamp might be broken or fallen off.  
Be careful to fasten accurately.

2. Perform the same procedure on the opposite side.

# 6

## REINSTALLING THE VEHICLE COMPONENTS



### Reinstalling the front bumper

1. Connect the front fog lamp connector that was removed when removing the front bumper to the ① fog lamp connector.

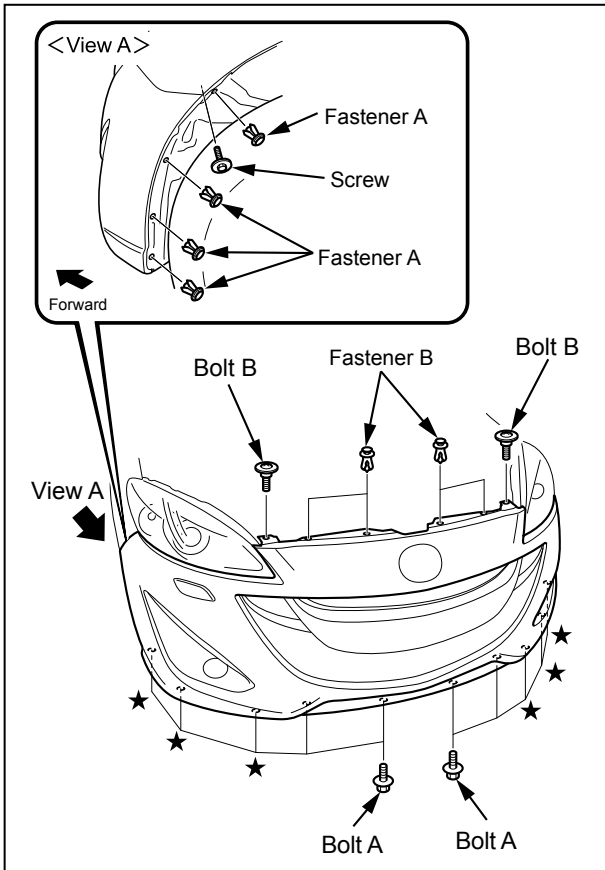


### CAUTION

- When connecting the harnesses, insert the connectors firmly until they lock securely into place.

2. Install the harness clip (one place).
3. Perform the same procedure on the opposite side. (Item 1 to 2)
4. Reinstall the head lamp washer hose in the reverse order of removing it.

**(Vehicles with head lamp washer only)**



5. Reinstall the front bumper in the reverse order of removing it. (Refer to the page 5 “Removing the front bumper”)



### CAUTION

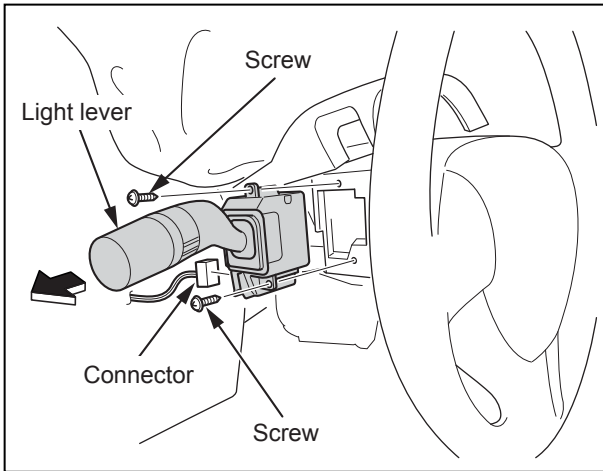
- Do not install the bolts A at the bottom of the bumper until (represented by ★ : three for each of the right and left) after the completion of aiming adjustment.
- If you fasten with those torques other than specified, the front bumper might be broken or fallen off. Be careful to fasten accurately.

6. Remove the masking tape.

## 7

# INSTALLING THE LIGHT LEVER ASSEMBLY

(※Light lever assembly is sold separately)



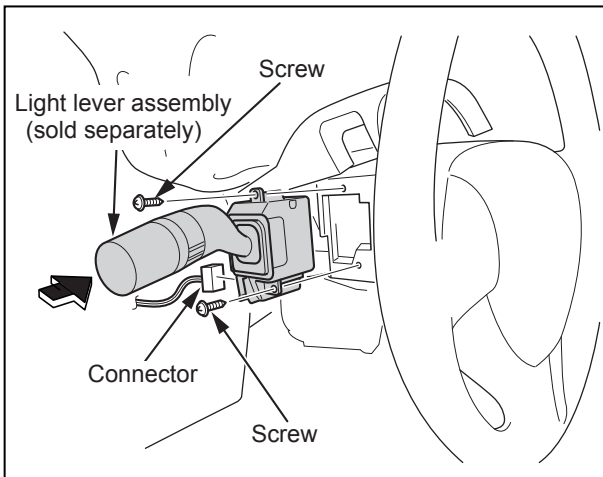
### Removing the existing light lever switch

1. Disconnect the connector of the existing light lever switch.
2. Remove the screws (two places) and then remove the existing light lever switch in the direction of the arrow.



### CAUTION

- Consult the product specification of the light lever switch for reusability of the removed screws.



### Installing the light lever assembly

(sold separately)

1. Install the light lever assembly (sold separately) in the reverse order of the previous item "Removing the existing light lever switch".

#### Tightening torque

Screw : 0.3~1.5N · m



### CAUTION

- If you fasten with those torques other than specified, the light lever assembly might be broken or fallen off. Be careful to fasten accurately.

2. Carry out an operation check.  
(Refer to "8 CHECKING OPERATION")

### Reinstalling the column covers

1. Reinstall the column covers by carrying out the removal procedure in reverse. (See page 6)



## 8

# CHECKING OPERATION



### WARNING

- Clear area of all individuals around the vehicle or inside the vehicle. 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. Disconnect the negative terminal of the battery.



### CAUTION

#### 【Vehicles with the i-stop system】

- If the battery connection is broken, the i-stop system will not function anymore.  
Carry out the following operation in order to reactivate the i-stop system.
  1. Close the hood.
  2. Set the ignition switch to the "OFF" position.
  3. Set the ignition switch to the "ON" position, then within 5 seconds after that, push the i-stop OFF switch for 3 seconds.
  4. Start the engine.
  5. Push the i-stop OFF switch to see if the i-stop indicator (green) flashes.  
(If not, try the step 3 to 6 again)
  6. Keep idling away until the i-stop indicator (green) turns off.  
(Be sure to operate free from electric load)
  7. Set the ignition switch to the "OFF" position and then start the engine again.
    - ※ If the i-stop indicator is still illuminated after the procedures above done, please contact your Mazda dealer.

#### 【Common】

- If the battery connection is broken, the power windows will no longer fully open or fully close automatically.  
Carry out the following operation to restore normal operation.
  1. Set the ignition key to the "ON" position.
  2. Press the power window switch to fully open the power windows.
  3. Lift up the power window switch to fully close the power windows, and keep it pulled up for approximately 2 seconds.
  4. Confirm if the window fully opens and fully closes automatically.
    - ※ Position the ignition key at OFF and then ON again. If the window doesn't work correctly, please contact Mazda dealer.



2. Reinstall the battery cover in the reverse order of the removal.

3. Perform the operation check by following the procedures stated below.

<Operation check procedures>

<Places to check if operation is incorrect>









#### Common for overseas

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.

#### EU/4A

5. Turn the headlight switch to  or  position, and turn the front fog light switch to  position, then check if the front fog lights are on.
6. Turn the fog light switch to  and  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  or  position, and turn the fog light switch to  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.

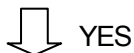
#### USA

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 headlight switch to either  position or  position with high beam, check if the fog lights are off even the fog light switch is  position.
7. Turn the fog light switch to OFF position or turn the headlight switch to OFF position, and check if the fog lights are off.

NO



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

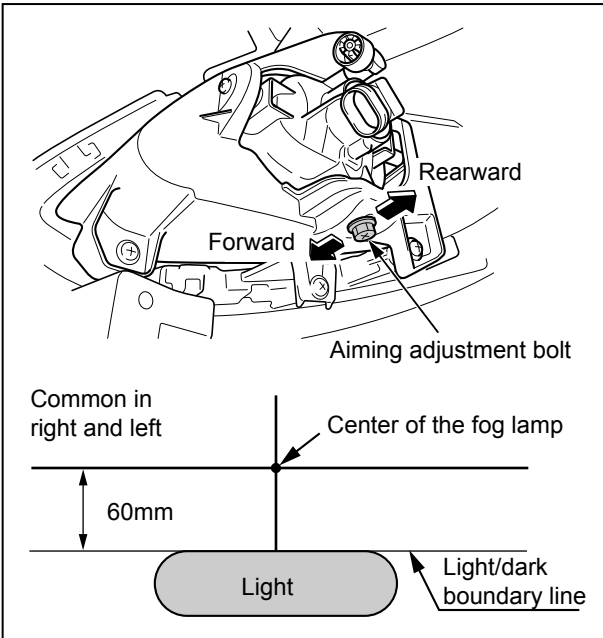
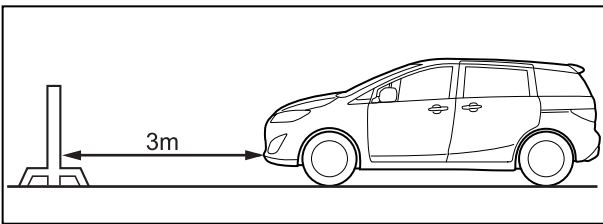


YES

**If operation is normal, this completes the procedure.**

## 9

## FOG LAMP AIMING ADJUSTMENT



1. Inflate the tires to the standard pressure.
  2. Set the vehicle to the unladen condition, and park it on a 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 the engine and charge the battery.
  7. Turn on the fog lamps.
  8. This completes the adjustment if operation is normal. (Proceed to the item 9 if operation is not normal)
  9. Loosen the aiming adjustment bolt, and then adjust the position of the fog lamp so that it is within the light/dark boundary line as shown in the diagram
- Tightening torque**  
**Adjustment bolt : 0.5~1.96N · m**
10. Re-install bolt "A" (10pcs). As shown in step "6"



### CAUTION

- 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.
- If you fasten with those torques other than specified, the fog lamps might be broken or fallen off. Be careful to fasten accurately.

## 10

## FOG LAMP BULB REPLACEMENT



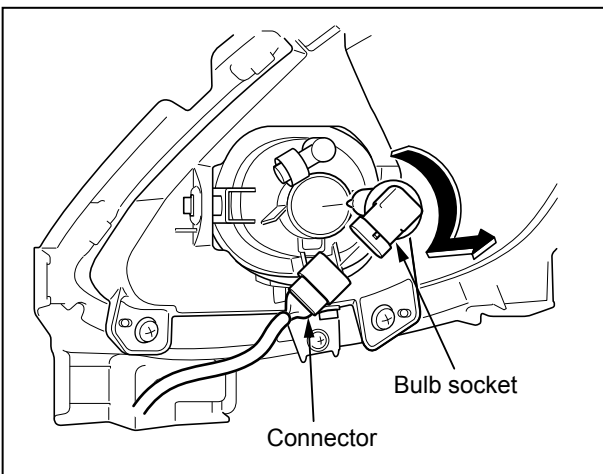
### WARNING

- Always be sure to use the properly-specified bulb. If an incorrect bulb is used, it may result in fire.



### CAUTION

- Replacement of the bulbs should be carried out by a properly-qualified technician.
- Use the following bulbs as replacement fog lamp bulbs. **Part No.: 90703 7550 [H11 12V 55W]**
- When replacing a light bulb, avoid touching the glass part of the light bulb. Otherwise, bulb life may be decreased.



1. Start the engine and fully turn the steering wheel in the opposite direction of the bulb to be adjusted.
2. Remove the fastener A and the screw A on the bumper side.
3. Push the tab of the connector of the fog lamp harness in order to disconnect the connector.
4. Turn the socket and remove it. Then pull out the fog lamp bulb. (Item 1 to 4 : Consult the vehicle instructions (In case of blowout))
5. Replace the old bulb with a new one.

【To be used by installation workshop】

# Installation inspection sheet

MAZDA 5	FOG LAMP
	CG36 V4 600 (North America) CG15 V4 600 (EC · UK · 4A)

## A. Reinstalling the vehicle components

- Install in the reverse order of “4. REMOVING THE VEHICLE COMPONENTS”.

**⚠ CAUTION**

- After installing the vehicle parts, check for dirt.  
Clean any dirty parts.
- Check if the connectors have been securely connected.

CHECK

## B. Inspection items after installation

- Inspect the installed parts and removed and re-installed parts following the items below.

Section to be inspected	Inspection item (circle)					
	Gap / fit & finish	Scratch, stain, harness interference	Tightening & engagement	Function	Aiming adjustment	Operation check
Fog lamp (RH/LH)	○	○	○		○	○
Light lever assembly		○	○	○		○
Fog lamp indicator						○
Front bumper	○	○	○			
Column cover	○	○	○			
Head lamp washer (if equipped)						○
Battery terminal			○			
i-stop						○
Power window						○

## C. Important check points

No.	Item	Check
1	Check if fog lamps operate and head lamp washer operate properly.	
2	Check if the bolt / screw used to tighten the following part are tightened correctly. · Battery terminal	

【Important point】

Procedure	Part name	Specified torque	Torque value at the time of check	Inspector (name)
5 -1 (page 6)	Tapping screw	0.3~1.5 N·m	N·m	

## Fog lamp installation inspection

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