

# GENUINE FRONT FOG LAMP KIT

## INSTALLATION INSTRUCTIONS

Thank you for purchasing a genuine Mazda accessory.

Before removal and installation, be sure to thoroughly read these instructions.

Please read the contents of this booklet in order to properly install and use the front fog lamp kit. Your safety depends on it.

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 them 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 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 any doubt, please ask 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 from scratches, grease or other dirt.

**PART NAME: FRONT FOG LAMP KIT**

**PART NUMBER: TK22 V4 600**

**VEHICLE: MAZDA CX-9**

### NOTE

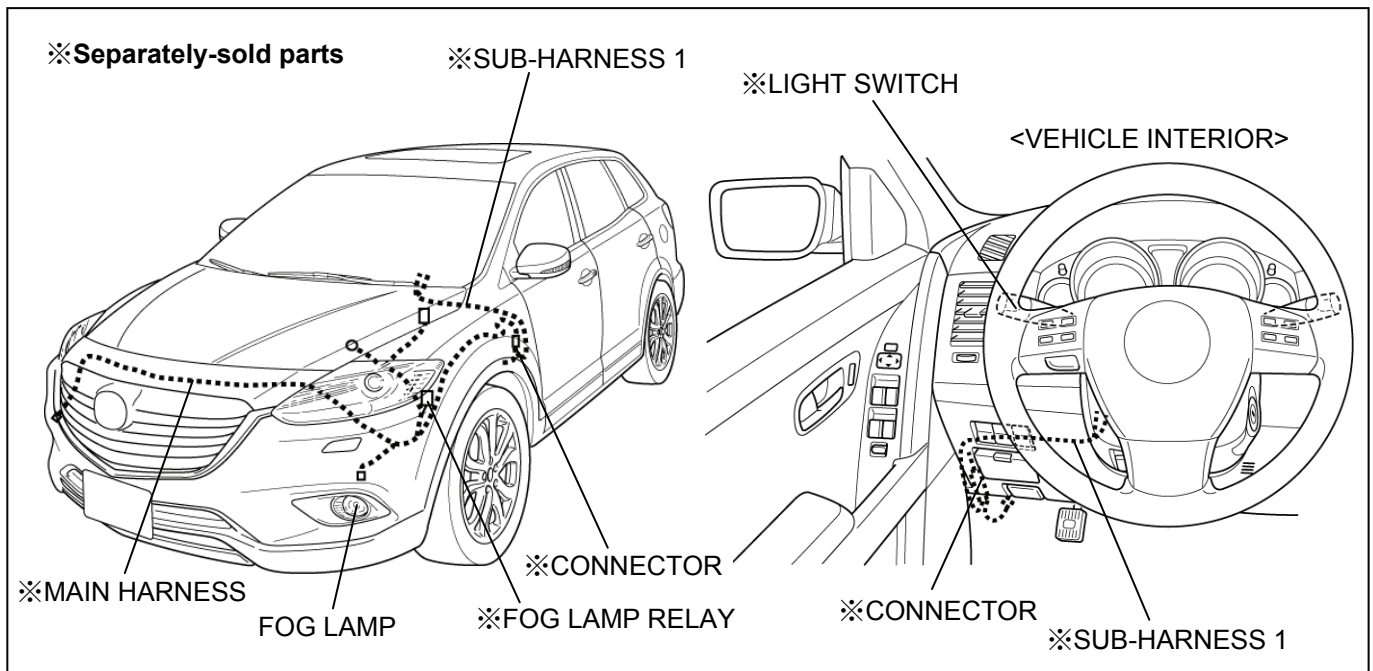
#### To the dealer

- 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 leave these instructions with it for 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	Part	Part name	Qty
	Fog lamp (RH, LH)	1ea.		Fog lamp bracket (RH, LH)	1ea.		Fog lamp bezel (RH, LH)	1ea.
	Set screw	2		Screw	2		Tapping screw	6
	Installation instructions	1						

Sold separately	Part name	Qty
	Light lever assembly	1

※For fog lamp installation, the following separately-sold part is necessary.

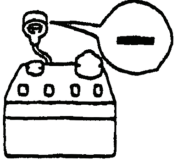

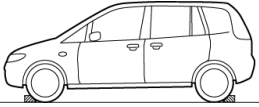

- Front fog lamp harness

## 3. BEFORE INSTALLATION

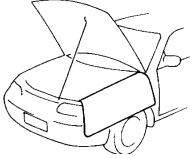
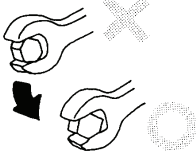
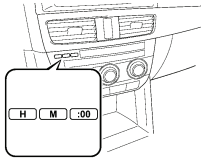
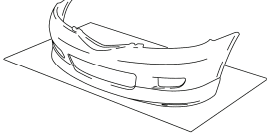
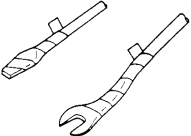
### ■ REQUIRED TOOLS

- ☆Screwdriver (Phillips)    ☆Flathead screwdriver    ☆Socket wrench (8mm, 10mm)    ☆Fastener remover
- ☆Torque wrench    ☆Protective tape    ☆Protective sheet    ☆pincers
- ☆Soft, clean cloth

### ⚠ 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, set the selector lever to P (AT vehicles) or the shift lever to 1st or R (MT vehicles), 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 job.</p>	<p>When the negative battery cable is removed, 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>			
			

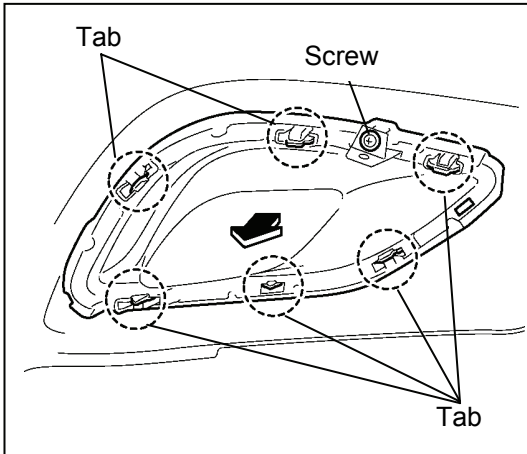
### Advice

<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

### Front bumper removal

- Removing the front bumper is required. Refer to the installation instructions included in Front fog lamp harness kit that is sold separately.

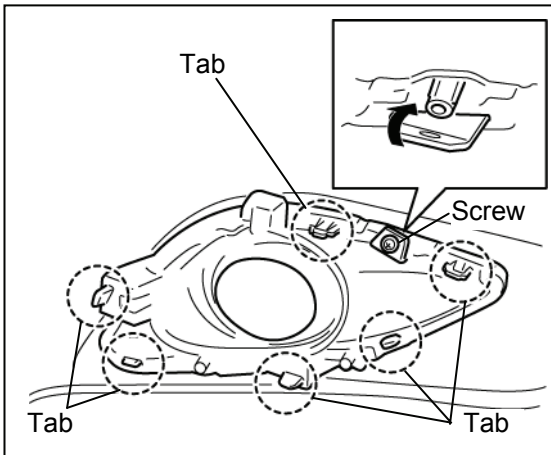


### Front cover removal

- The figure shows the left side, however, the procedure is the same for the right side.
1. Remove the screw.
  2. Disconnect the tabs (6) and remove the front cover from the bumper in the direction of the arrow.

- The removed front cover is not used to install this accessory.
- The removed screw is to be reused. Be careful not to damage or lose it.

## 5. INSTALLATION OF THE FOG LAMP AND LIGHT LEVER ASSY

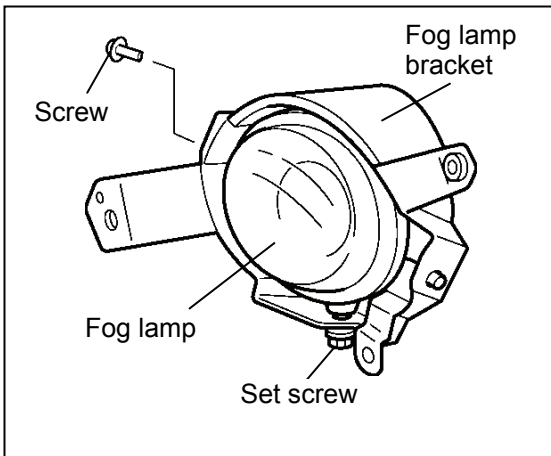


### Install the fog lamp bezel

- The figure shows the left side, however, the procedure is the same for the right side.

1. Install the fog lamp bezel to the front bumper.

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



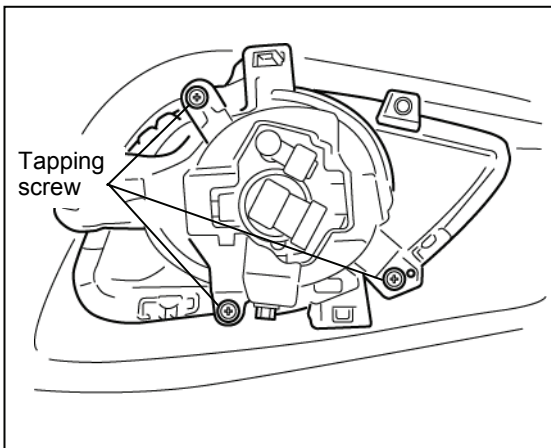
### Install the fog lamp

- The figure shows the right side, however, the procedure is the same for the left side.

1. Install the fog lamp to the fog lamp bracket using the screw (1) and the set screw (1) included with the kit.

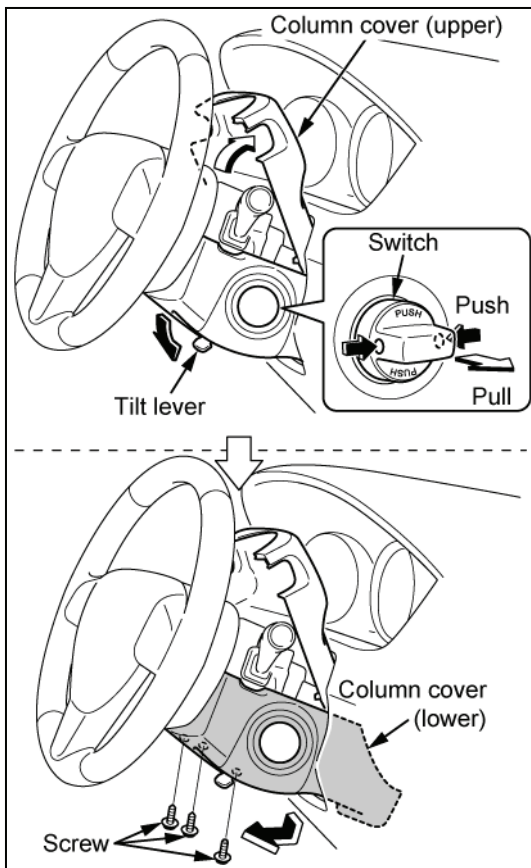
**Set screw tightening torque : 1.0—3.4 N·m**

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



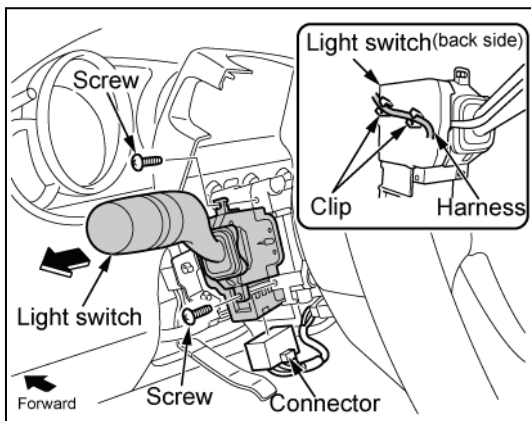
2. Install the fog lamp and fog lamp bracket to the fog lamp bezel as a single unit using the tapping screws (3) included with the kit.

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



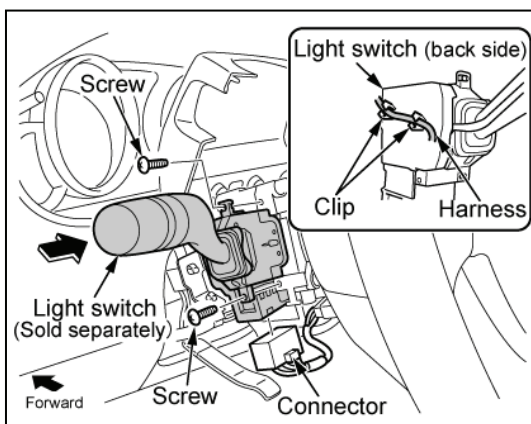
### Remove the column cover (lower)

1. Push the buttons on both sides of the switch to remove it.  
(Vehicles with advanced key less system only)
2. Release the tilt lever and lock the lever with the steering wheel pulling down.
3. Pull up the column cover (upper) and disconnect it from the column cover (lower).
4. Remove the screws (three places).
5. Release the tilt lever.
6. Turn the steering wheel up and remove the column cover (lower) in the direction of the arrow.



### Remove the existing light switch

1. Disconnect the connector of the light switch.
2. Disengage the harness from the clips (two places) on the back side of the light switch.
3. Remove the screws (two places : to be reused later) and remove the light switch in the direction of the arrow.



### Install the light switch (sold separately)

1. Insert the light switch and restore the harness back to the clips on the back side of the light switch.
2. Install it with using the two screws which were removed in the previous procedure.

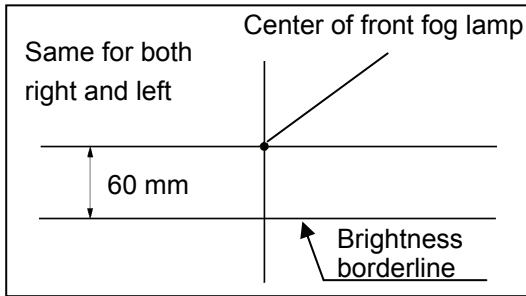
**Screw tightening torque : (0.3—1.5 N·m)**

3. Install the connector.

### Install the Front fog lamp harness (sold separately)

- Installing the separately-sold Front fog lamp harness. (Refer to Front fog lamp harness installation instructions)

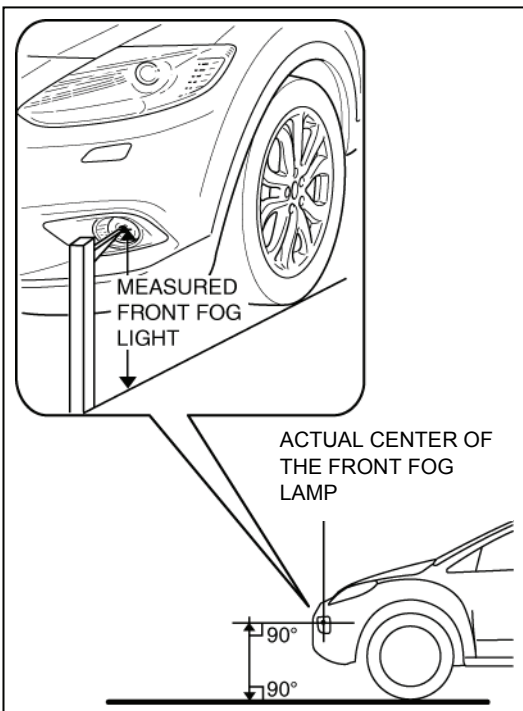
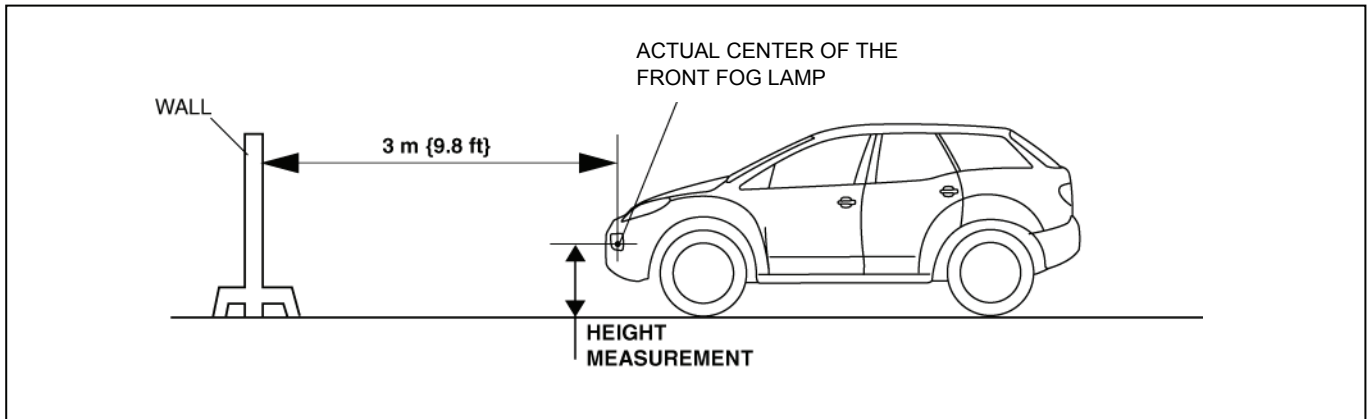
## 6. FOG LAMP AIMING



### Front fog lamp aiming

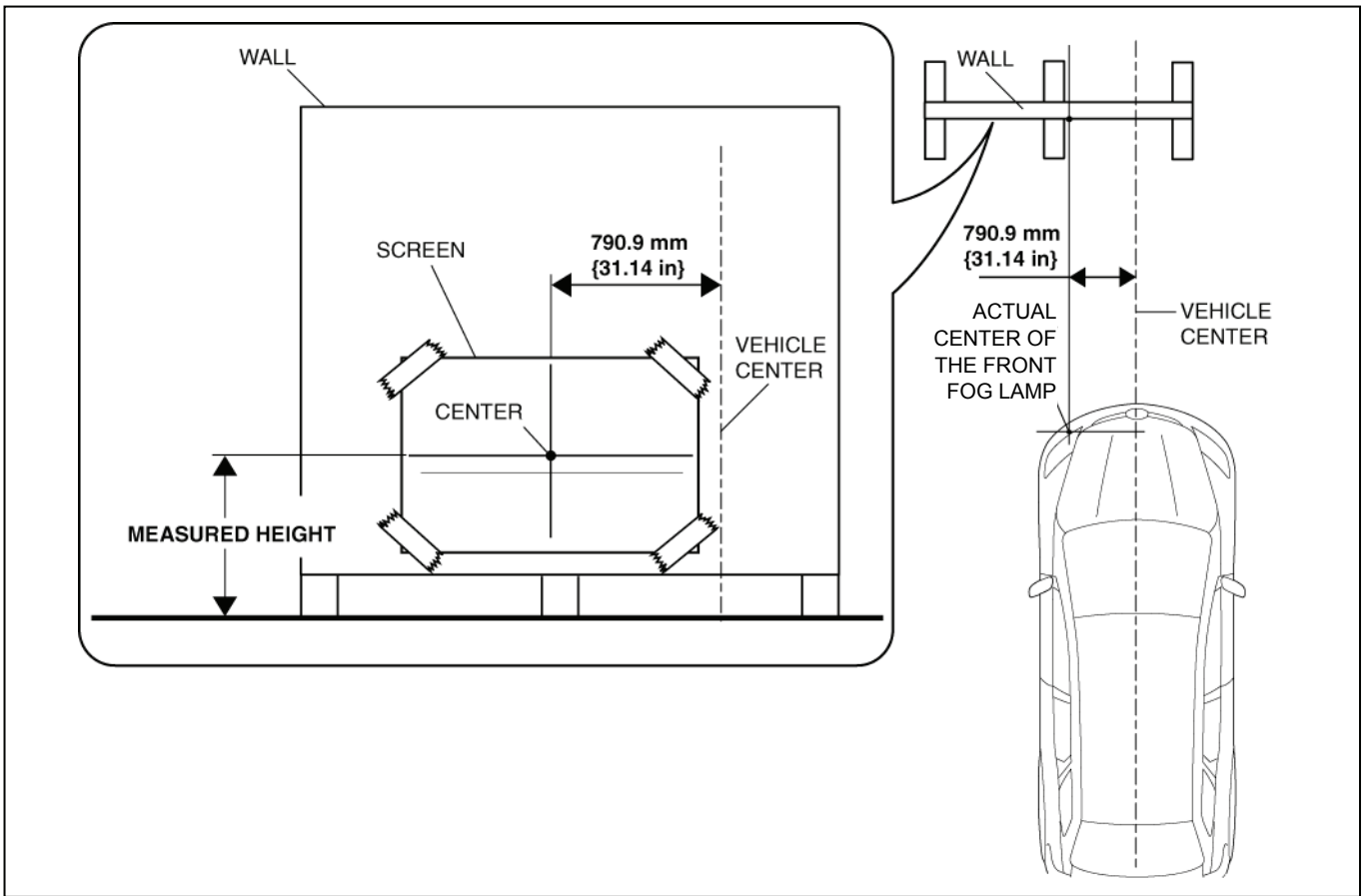
- Install the mudguards and the front bumper in the reverse order of their removal before performing the aiming adjustment. (for the mudguard and the front bumper installation procedure, refer to the instruction manual for the front fog lamp harness kit.)
- Install front undercover B after completing the aiming procedure. (for the Front under cover B installation procedure, refer to the instruction manual for the front fog lamp harness kit.)

1. Make a screen as shown in the figure using double-weight, white paper.
2. Adjust the tire pressure to the specification.
3. Position the unloaded vehicle on a flat, level surface.
4. Seat one person in the driver's seat.
5. Line up the vehicle with the wall so that the center of the front fog light is 3m {9.8 ft} away from the wall.



6. Measure the height at the center of the front fog lamp.

- Since the height of the vehicle varies depending on the vehicle situation, measure the height of the center of the front fog lamp using the actual vehicle.
7. Align the center of the front fog lamp with the center of the screen.



8. Block the light of the other front fog light using a partition.
9. Start the engine so that the battery remains charged.
10. Turn the front fog lamps on.
11. Verify that the brightness border line of the front fog lamp is the position indicated on the adjustment screen.

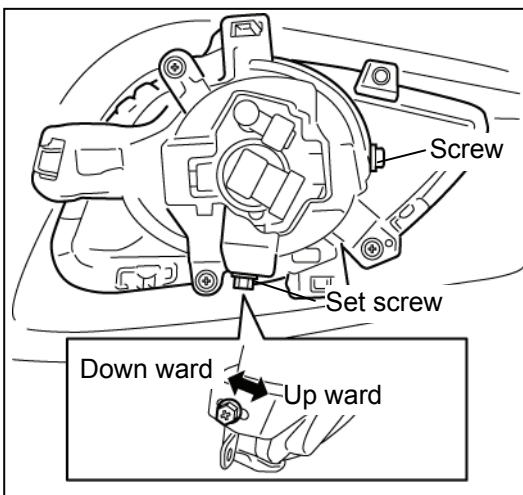
- If the brightness border line is not at the position indicated on the adjustment screen, perform the following adjustment.

- (1) Loosen the adjustment bolt.
- (2) Loosen the screw.
- (3) Move the front fog light in the direction of the arrow shown in the figure to adjust the brightness border line to the position indicated on the adjustment screen.
- (4) Tighten the screw and set screw.

**Set screw tightening torque : 1.0—3.4 N·m**

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

- (5) After completing the aiming, restore the front under cover B (for the front bumper installation procedure, refer to the instruction manual for the front fog lamp harness kit.).





## 7. OPERATION CHECK

Connect the negative battery cable.

**Nut tightening torque : 2.9—4.9 N·m**

After connecting the negative battery cable, restore the vehicle functions .

### Setting the time







- If the battery is disconnected, the clock display memory is reset.  
Restore the function using the following procedure:

1. Switch the ignition to the ACC or ON position.
2. Adjust the time using the time setting buttons (H, M).  
The hours advance while the time setting buttons (H) is pressed.  
The minute advance while the time setting buttons (M) is pressed.

### Power window auto function

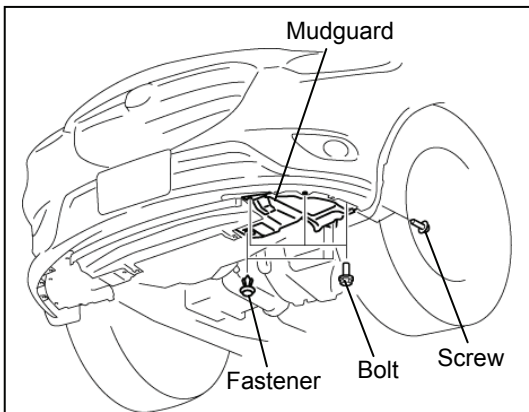
- If the battery is disconnected, the automatic full open/close feature of the power windows is disabled.  
This feature can be restored using the following procedure.  
\* Perform the procedure for all windows.
  1. Switch the ignition switch ON.
  2. Hold down the power window switch until the window is fully open.
  3. Pull up the power window switch to close the window, and continue to pull it up for about two seconds after it is fully closed.
  4. If the feature does not function even after the ignition is switch off, contact an Authorized Mazda Dealer.

### Fog lamp operation check

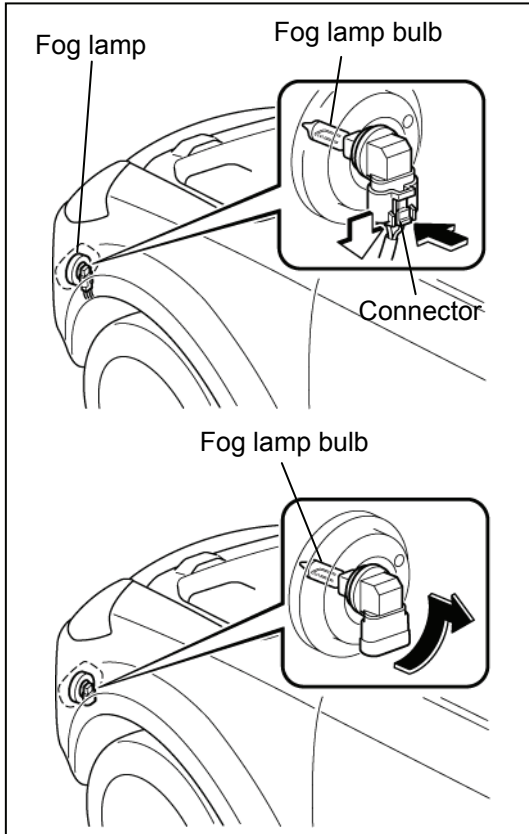
- After installing the separately-sold front fog lamp harness (Refer to Front fog lamp harness installation instructions), verify that the fog lamps operate.
  1. Turn the headlight switch to  position, and check if the position (parking) lights are on.
  2. Turn the headlight switch to  position, and check if the headlights are on.  
Check if the lights-on indicator light in the instrument cluster is illuminated.
  3. Press the lighting control lever forward, and check if the high beams turn on.  
Pull the lighting control lever back to its original position, and check if the high beams turn off.  
Check if the headlight high beam indicator light in the instrument cluster is illuminated when the high beams are turned on.
  4. Move the turn signal lever up/down, and check if the each turn signal flashes.  
Check if the turn signal indicator lights flash when the turn signal lever is in the up/down 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 turn on.
  6. Turn the headlight switch to either  position or  position with the high beams, check if the fog lights turn off even with the fog light switch in the  position.
  7. Turn the fog light switch to the OFF position or turn the headlight switch to the OFF position, and check if the fog lights turn off.

## 8. FOG LAMP BULB REPLACEMENT

- If a non-specified fog lamp bulb is used it might cause a fire. Make sure to use the specified fog lamp bulb.
- Consult your dealer for fog lamp bulb replacement.
- Use the fog lamp bulb indicated below.  
Part number 90703 7550 [H11 12V 55W]
- When replacing a lamp bulb, always hold by the flange and do not touch the glass part of the bulb. Oil or grease adhering to the bulb decreases bulb life.
- For details, refer to the vehicle's owner's manual.



1. Remove the mudguard.
  - (1) Remove the screws (2 each side).
  - (2) Remove the bolts (3 each side).
  - (3) Remove the fasteners (2 each side).



2. Disconnect the connector from the fog lamp.
3. Turn the fog lamp bulb in the direction shown in the figure and remove it.
4. Install a new fog lamp bulb in the reverse order of the removal.
5. Connect the connector to the fog lamp.

Date _____, _____, _____				
VIN _____				
Approved		Checked		Person in charge

<b>INSTALLATION INSPECTION SHEET</b>	<b>MAZDA CX-9</b>	<b>FRONT FOG LAMP KIT</b>
		<b>TK22 V4 600</b>

Perform the following inspections

**1. Inspection items after installation**

Check

- Verify the installation of the installed part, and inspect for damage or soiling.

Check

- When connecting connectors, verify the connection again to prevent poor connection or mis-connection. (Connect two times)

**2. Vehicle parts reinstallation**

Check

Is the nut for the negative battery terminal tightened to the specified torque? <b>Tightening torque: 2.9—4.9 N·m</b>	<input type="checkbox"/>
Check if the light switch operates correctly. (Headlights, turn signals, other lights)	<input type="checkbox"/>
Check if the light dispersion is correct.	<input type="checkbox"/>

**3. Installation of accessory, operation check**

Check

Check if the fog lamps turn on/off correctly.	<input type="checkbox"/>
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