

# GENUINE FOG LIGHT

## INSTALLATION AND USER'S INSTRUCTIONS

Thank you for purchasing a genuine Mazda accessory.  
Thoroughly read and understand the contents of this booklet in order to properly install and use the fog light.  
Make sure to store this booklet in an appointed place so that you can refer to it whenever necessary.



- There are several **⚠WARNINGS** and **⚠CAUTIONS** in this booklet concerning safety when installing or removing the fog light. Always read and follow them in order to prevent injuries, accidents, and possible damage to the vehicle.
- Do not modify the fog light.
- Do not install or use the fog light in a way other than described in the following instructions.
- Always 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.
- We are not responsible for any problems which originate from the failure to observe these instructions.

**PART NAME: FOG LIGHT**  
**PART NUMBER: BL8D V7 220F**  
**VEHICLE: Protegé**

If you have any questions about the installation, removal, or use of this accessory, consult your Mazda dealer.

**To the dealer**

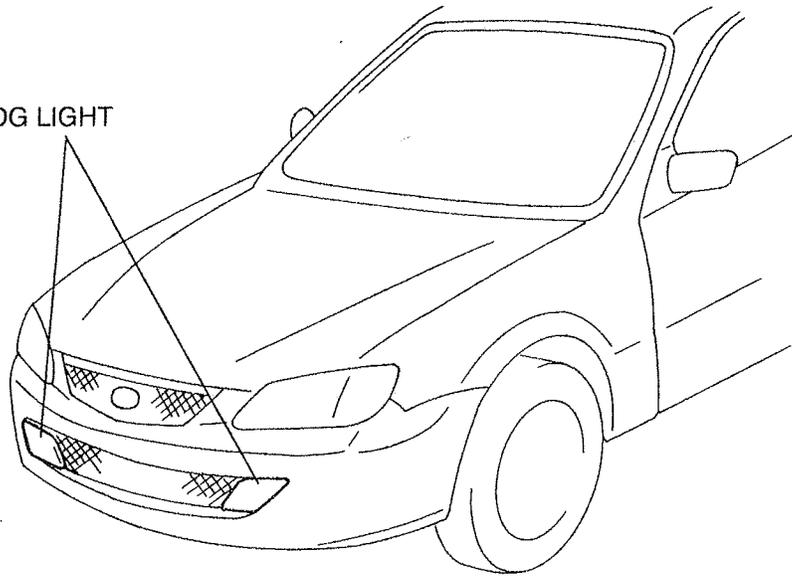
Return these instructions to the customer after installation.

**To the customer**

Keep these instructions after installation. The instructions may be necessary for installing other optional parts or removal of this accessory.

# 1 INSTALLATION VIEW

FOG LIGHT



# 2 PARTS

**⚠ CAUTION**

- Verify that the kit includes all the following parts and that no part is dirty, scratched, or damaged.

No.	Part name	Part No.	Qty.	No.	Part name	Part No.	Qty.
①	Fog light (RH)	TC86 51 680	1	⑤	Bolt	9GD62 0616	2
	Fog light (LH)	TC86 51 690	1	⑥	Washer	99953 0822	2
②	Fog light harness	BL8D 51 688B	1	⑦	Band	99709 3250	2
③	Fog light switch	GE4T 66 4B0	1	⑧	Installation and User's instructions		1
④	Relay	B150 67 730	1				

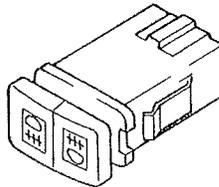
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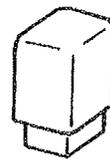
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③



④



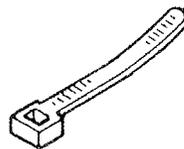
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⑥



⑦



⑧



# 3

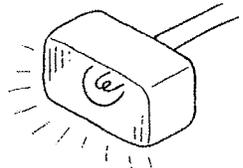
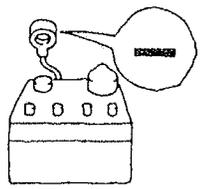
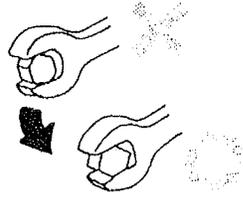
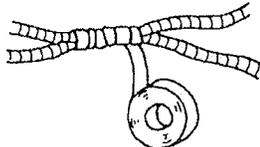
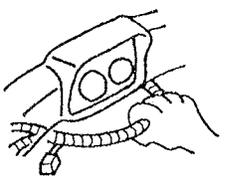
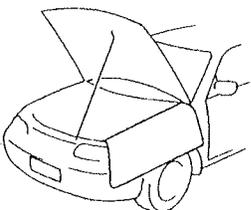
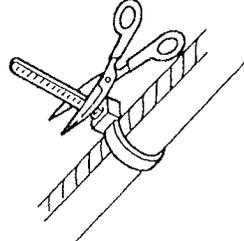
## BEFORE INSTALLATION

### REQUIRED TOOLS

Prepare the following tools or items before installation.

- \*Socket wrench (8 mm, 10 mm)    \*Phillips screwdriver (Stubby type)    \*Flathead screwdriver
- \*Torque wrench    \*Tape    \*Soft cloth    \*Fastener remover

### ⚠ CAUTION

<p>Using nonstandardized bulbs can cause damage. Verify that the head light bulbs are standardized.</p>	<p>When the negative battery cable is connected during operation, it may cause electric shock or other personal injuries. Disconnect the negative battery cable before removal/installation.</p>	<p>Using improper tools may cause damage and or broken parts. Use the correct tool for the job.</p>	<p>Secure the harness with the band (part included) so it doesn't dangle. If not, it may cause a short, accident, or fire.</p>
			
<p>Do not pull the harness with excessive force. Doing so can cause a breakage or a short-related accident, as well as an electrical short or fire.</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>	<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>Excessive length of band may interfere with other parts and cause damage. Cut unnecessary part.</p>
			

### ⚠ 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 personal injury or vehicle damage.

### Note

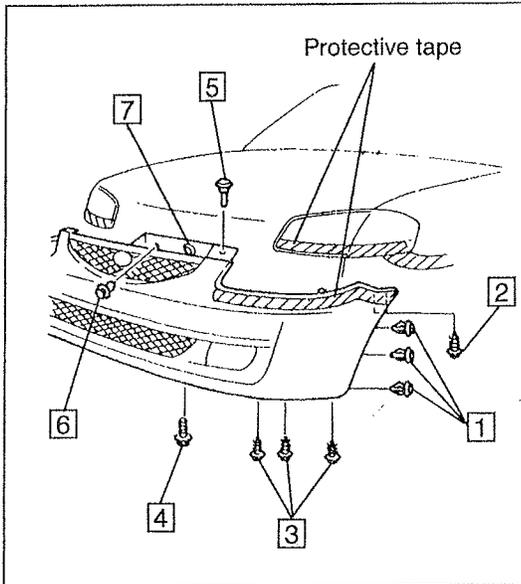
- Refer to the Protégé Workshop Manual for removal and installation of vehicle parts.

## 4 VEHICLE PARTS REMOVAL

### ⚠ CAUTION

- The removed parts are necessary for installation of the fog lights. Be careful not to damage or lose the parts during removal.

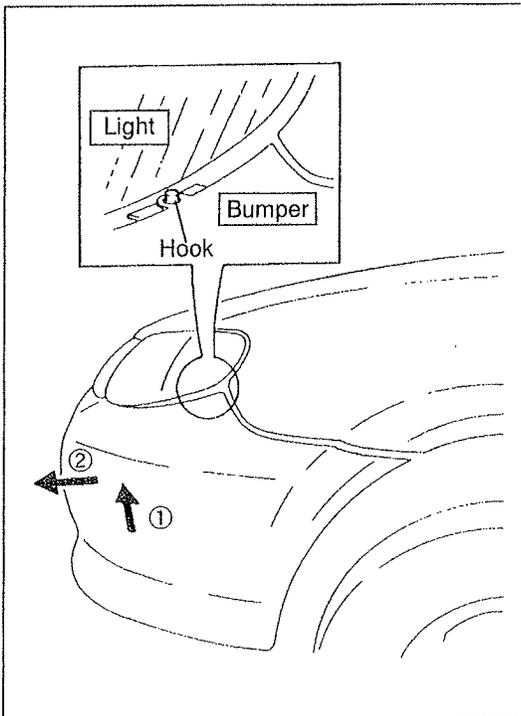
### 1. Front bumper removal



(1) Remove the front bumper.

※ Remove the following.

- ① Resin clips of the fender liner (3 on either side)
- ② Screws on the back of the fender liner (2 on either side)
- ③ Screws on the lower part of the fender liner (3 on either side)
- ④ Hexagon bolts on the lower part of the front bumper (1 on either side)
- ⑤ Cross recessed pan head bolts on the upper part of the front mask (1 on either side)
- ⑥ Resin clips on the upper part of the radiator grille (1 on either side)
- ⑦ Resin clips on the upper part of the radiator grille (1 on either side) together with the front bumper.

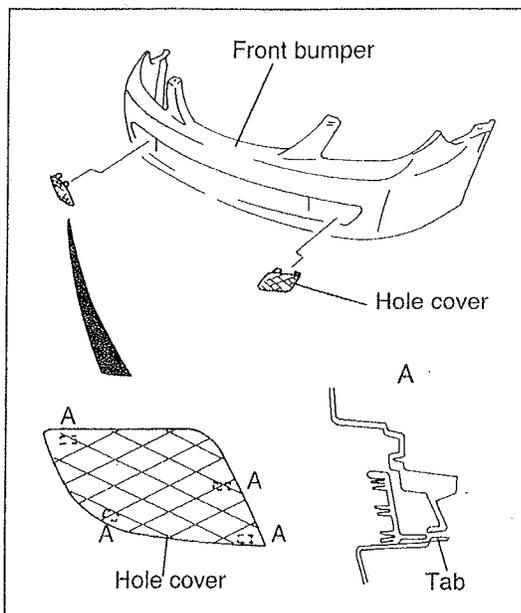


⑧ Lift up the bumper ① to unhook it, then put it forward ② to remove it.

### ⚠ CAUTION

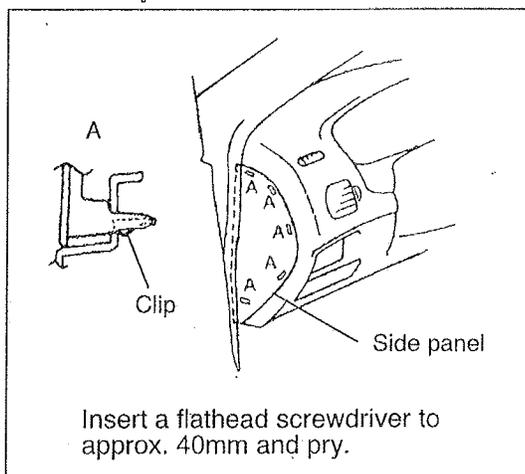
- Put the bumper on a protective sheet to prevent scratches.

## 2. Hole cover removal (from front bumper)



- (1) Push the tabs on the hole cover forward from the back of the front bumper.

## 3. Side panel removal



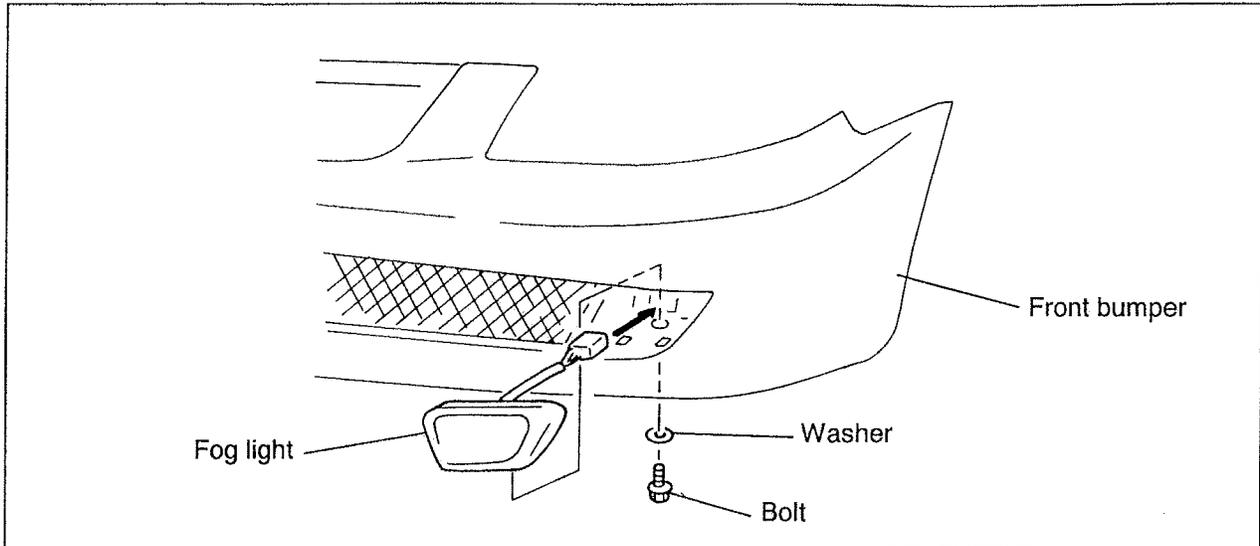
### ⚠ CAUTION

- To prevent scratching of the vehicle, wrap the screwdriver with a protective tape.

- (1) Remove the clips A using a tape-wrapped flathead screwdriver.

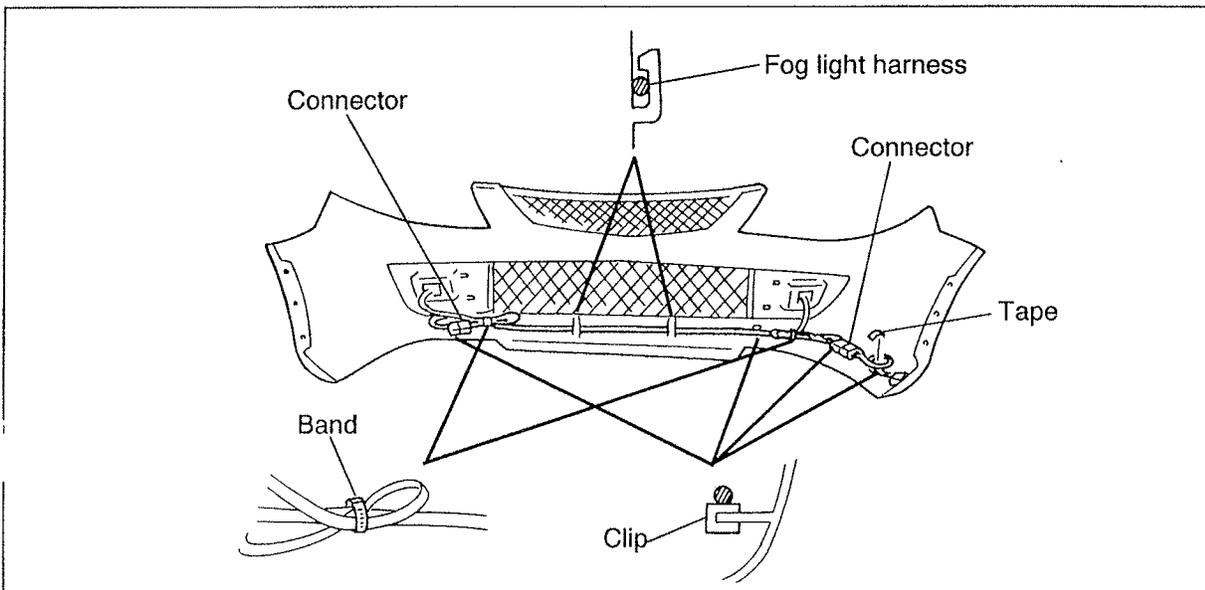
## 5 FOG LIGHT INSTALLATION

### 1. Fog light installation



- (1) Install the fog light to the hole cover installation position of the front bumper with the washer and the bolt.
- (2) Tighten the bolt to the specified torque.  
**Tightening torque: 6.9—9.8 N·m [0.7—1.0 kgf·m, 61—86 in·lbf]**

### 2. Fog light harness installation



#### ⚠ CAUTION

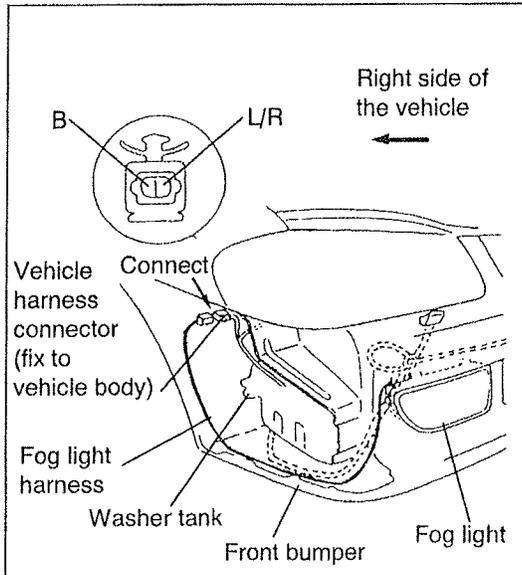
- Put the bumper on a protective sheet to prevent scratches.

- (1) Align and install the fog light harness with the rib on the back of the front bumper.
- (2) Connect the fog light connector with the fog light harness connector.
- (3) Attach the clip of the fog light harness to the front bumper rib.(4 locations)
- (4) Secure the fog light harness with the band.(2 locations)
- (5) Remove the tape.

#### ⚠ CAUTION

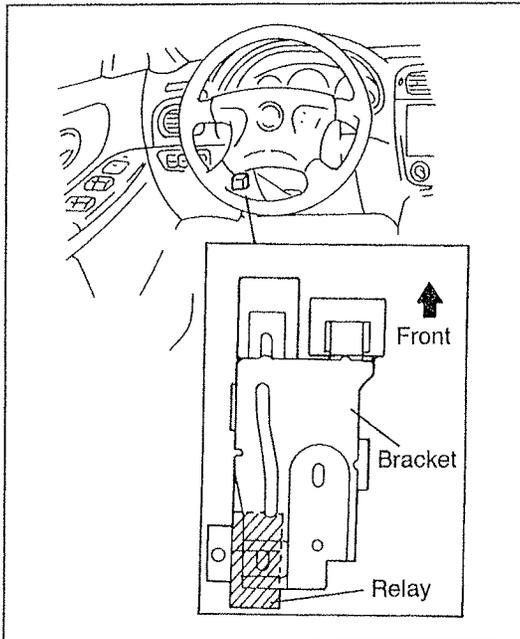
- Install the fog light harness so that there is no slack, and it is not interfering with other parts.

### 3. Fog light harness connection



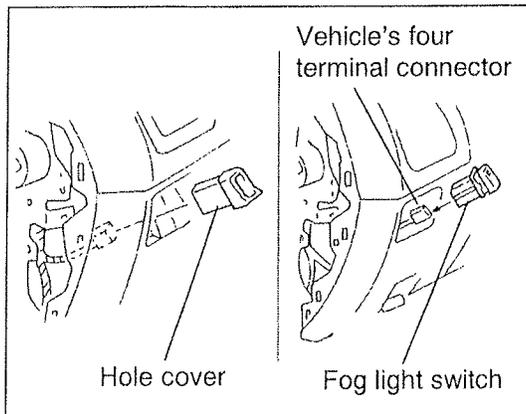
- (1) Temporarily install the front bumper.
- (2) Connect the fog light harness connector from the front bumper with the vehicle harness connector (gray, waterproof type, 2-pin) fixed to the vehicle body above the washer tank on the right side of the vehicle.

### 4. Relay installation



- (1) Install the relay to the position as shown in figure.

### 5. Fog light switch installation



- (1) While pushing the hooks (two on both upper and lower), remove the hole cover of the instrument panel.

#### Note

- The removed hole cover is not necessary for installation of the fog lights.

- (2) Connect the vehicle's four-terminal connector to the fog light switch.
- (3) Install the fog light switch in place in which hole cover was located.
- (4) Carry out an operation check.  
(Refer to : 6. Operation Check Procedure)

# 6

## OPERATION CHECK

- After checking the wiring, connect the negative battery cable.
- Check the operation according to the following procedure.

### <Operation check procedure>

1. Turn on the head light switch.
2. Do the fog lights illuminate when the fog light switch is turned on?
3. Do the fog lights go off when the fog light switch is turned off?

NO



### <Inspection items in case of operation failure>

- Make sure the harnesses are not caught in any parts.
- Check the connections of each connector.
- Check the installation of the relay.

YES



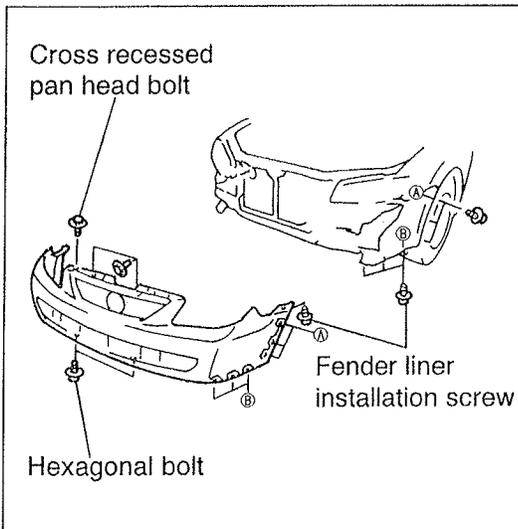
The fog lights are O.K.

### Reinstallation of vehicle parts

1. If there were no problems in the operation check, reinstall the vehicle parts in the following order.

#### ⚠ CAUTION

- Be sure to tighten the screws and bolts.
- Tighten the screws and bolts within specified torque range or the parts may fall off and become damaged.



- (1) Install the side panel.
- (2) Affix the front bumper.

#### Tightening torque

##### Hexagonal bolt :

6.8—9.8 N·m {0.7—1.0kgf·m, 61—86in·lbf}

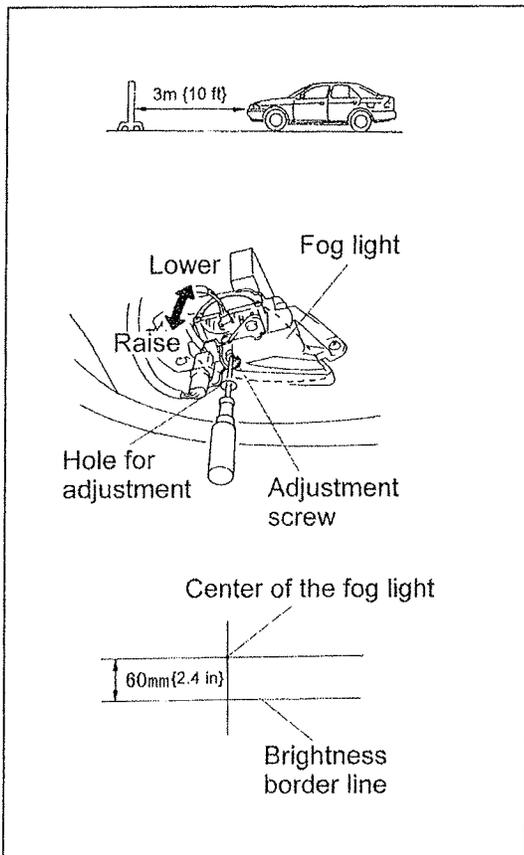
##### Cross recessed pan head bolt :

6.8—9.8 N·m {0.7—1.0kgf·m, 61—86in·lbf}

##### Fender liner installation screw :

2.0—2.9 N·m {20—30kgf·cm, 18—26in·lbf}

## 7 FOG LIGHT ADJUSTMENT

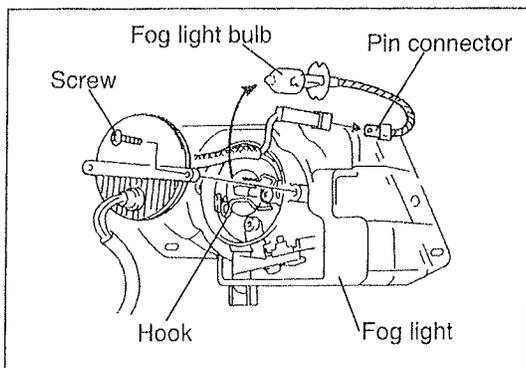


1. Connect the negative battery cable.
2. Adjust the tire air pressure to specification.
3. Position the unloaded vehicle on a flat, level surface.
4. Seat one person in the driver's seat.
5. Position the vehicle straight ahead and perpendicularly to a wall, and set the distance between the fog lights and the wall to 3m {10 ft}.
6. Cover the one side of the fog light with a cloth.
7. Turn the fog light.
8. Adjust the brightness borderline by turning the adjustment screws shown in figure.
9. Tighten the adjustment screw.

## 8 FOG LIGHT BULB REPLACEMENT

### ⚠ CAUTION

- Ask your Mazda dealer for replacement fog light bulbs.
- Disconnect the negative battery cable before removal/installation.
- Fog light bulb: Part No: 99703 4550 (12V55W).
- When replacing the bulb, remove the front bumper.



### ⚠ CAUTION

- Using nonspecified bulbs can cause vehicle fire. Use only specified bulbs.
- When replacing the bulb, hold the metal flange, not the glass.

1. Remove the cover from the back of the fog light (undo the 2 small screws).
2. Remove the fog light affixing spring from the hook.
3. Remove the pin cover and disconnect the pin connector.
4. Remove the fog light bulb.
5. Insert the replacement fog light bulb in the reverse order of removal.

# INSTALLATION INSPECTION SHEET

Protegé

FOG LIGHT

BL8D V7 220F

## A. Inspection items after installation

- Inspect the installed/reinstalled parts for the following items.
- Check the attached appearance tolerances list for clearance and fit.

Inspection Parts	Inspection Items (○)				
	Clearance/Fit	Scratches/ Dirt/ Harness interference	Installation/ Tightening/ Engagement	Operation check	Adjustment
Fog light	○	○	○	○	○
Fog light switch	○	○	○	○	
Front bumper	○	○	○		
Mud guard			○		
Side panel	○	○	○		

Installation inspection sheet for fog light

Date				
VIN.				
Approved		Checked		Person in charge

The term of validity for  
this sheet: 1 year