





GENUINE FOG LIGHT

INSTALLATION AND USER'S 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 fog light. 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 fog light. 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.
- Do not modify the fog light.
- Do not install the fog light 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: FOG LIGHT
PART NUMBER: G22B V7 220F
**VEHICLE: Mazda6 , Mazda6 Sport ,
Mazda6 Sport Wagon**

NOTE

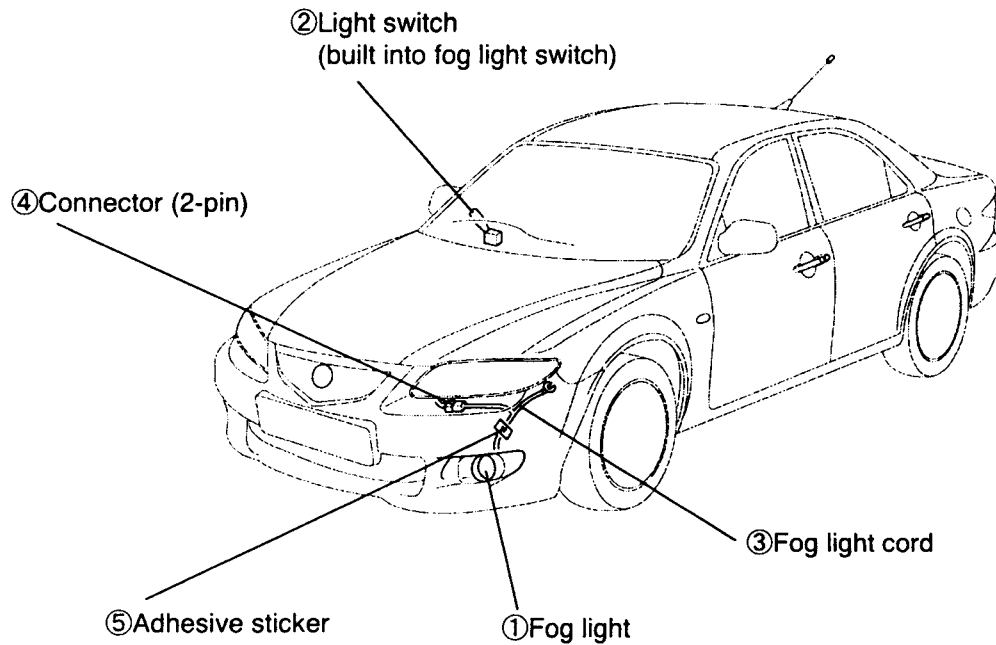
To the dealer

- 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

Note

- Verify that the kit includes all the following parts and that the parts are not dirty, scratched, or damaged.

| No. | Part name | Part number | Qty. | No. | Part name | Part number | Qty. |
|-----|--|-------------|------|-----|--|-------------|------|
| ① | Fog light  | N066 51 680 | 2 | ⑤ | Adhesive sticker  | — | 2 |
| ② | Light switch (built into fog light switch)※  | GJ6F 66 122 | 1 | ⑥ | Harness band  | — | 2 |
| ③ | Fog light cord  | — | 2 | ⑦ | Waterproofing plug  | — | 2 |
| ④ | Connector (2-pin)  | — | 2 | ⑧ | Installation and user's instructions  | — | 1 |

※ : Not used for vehicles with fog lights built into the headlights.

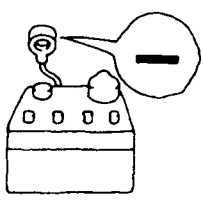
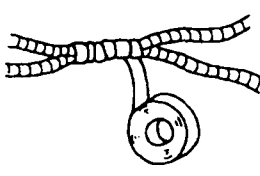
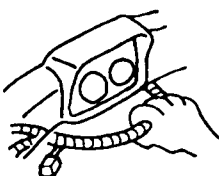

3 BEFORE INSTALLATION

REQUIRED TOOLS

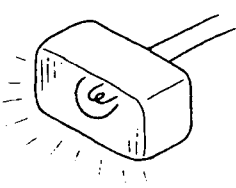
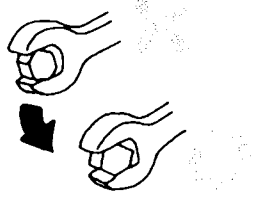
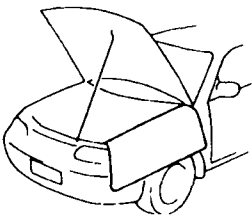
Prepare the following tools or items before installation.

- *Phillips screwdriver *Flathead screwdriver *Fastener remover *Tape *Soft cloth
- *Socket wrench (10 mm) *Torque wrench *Mat *Precision screwdriver

⚠ WARNING

| | | | |
|--|--|---|---|
| <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>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> |
|  |  |  |  |

⚠ CAUTION

| | | |
|---|---|--|
| <p>Using nonstandardized bulbs can cause damage. Verify that the head light bulbs are standardized.</p> | <p>Using improper tools may cause damage and or broken parts. Use the correct tool for the job.</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> |
|  |  |  |

⚠ CAUTION

- 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.

Note

- Refer to the Mazda6 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.

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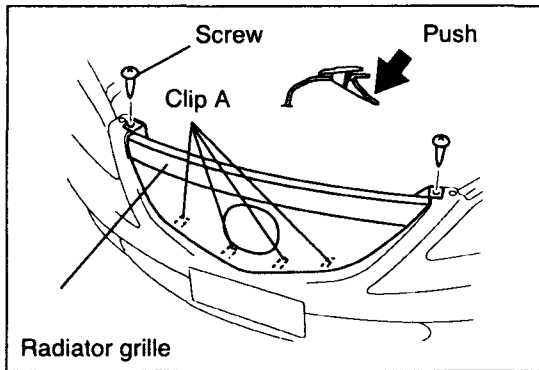
PART REMOVAL

⚠ CAUTION

- Be careful not to damage or lose removed parts during removal.

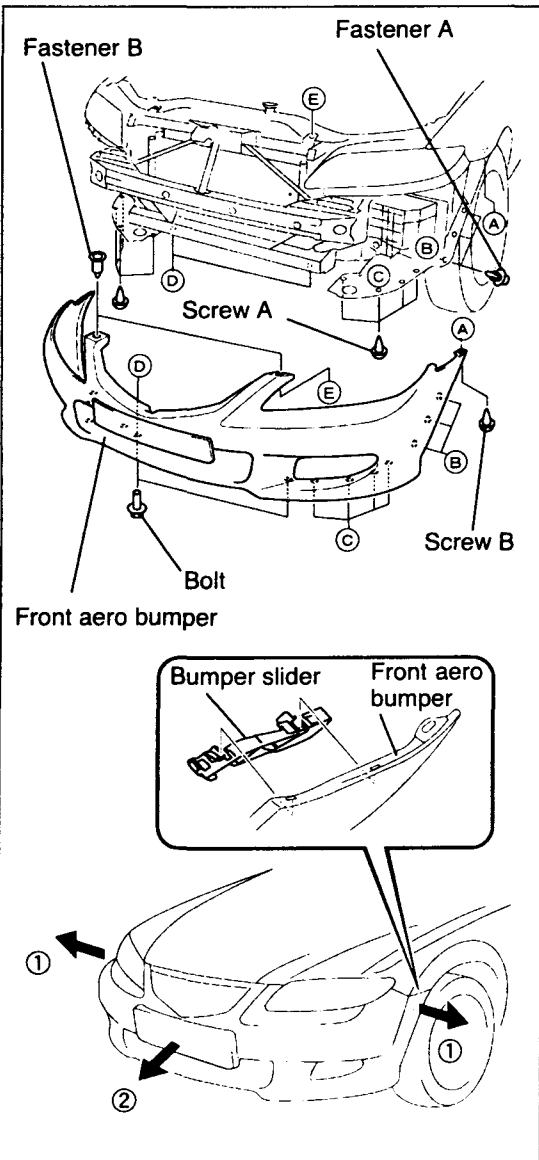
Note

- Directions are given for the left side. The right is symmetric.



Radiator grille removal

1. Remove screws (2), and remove radiator grille clips A (4 locations).

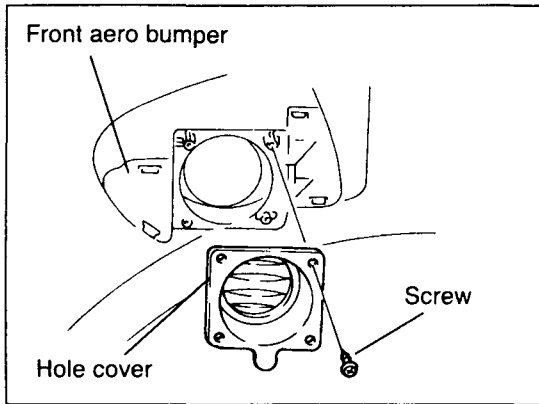


Front aero bumper removal

1. Remove fasteners A (6) and screws A (8).
2. Remove fasteners B (2) and bolts (2).
3. Partially pull back the mudguard and remove screws B (2).
4. Pull the front aero bumper in the direction of ①, and remove it from the bumper slider tabs (2 each side).
5. Pull the front aero bumper in the direction of ②, and remove.

Note

- For headlight washer-equipped vehicles, remove the washer hose before removing the front aero bumper.



Hole cover removal (left/right)

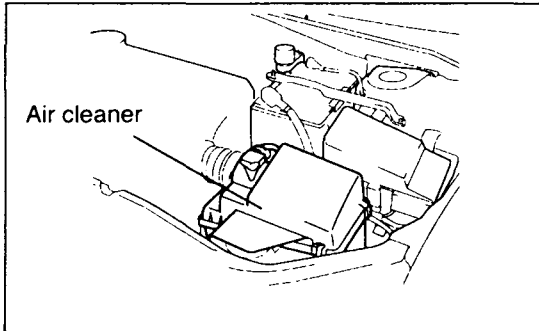
1. Remove screws (3 each side), and remove the front aero bumper hole covers.

⚠ CAUTION

- The removed screws (3 each side) are necessary for reinstallation. Be careful not to lose them.

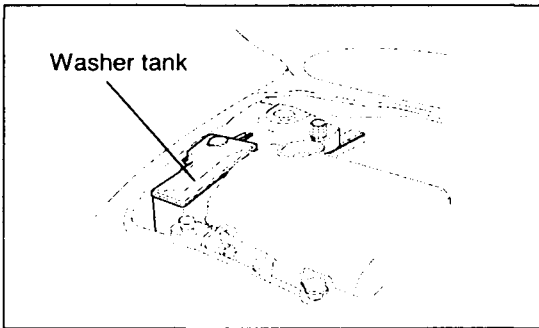
Note

- The removed hole cover is not used for this accessory.



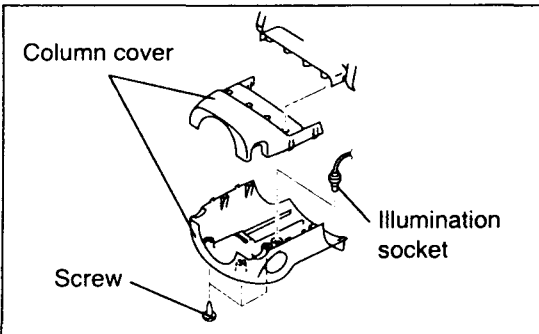
Air cleaner removal

1. Remove the air cleaner from the engine compartment.



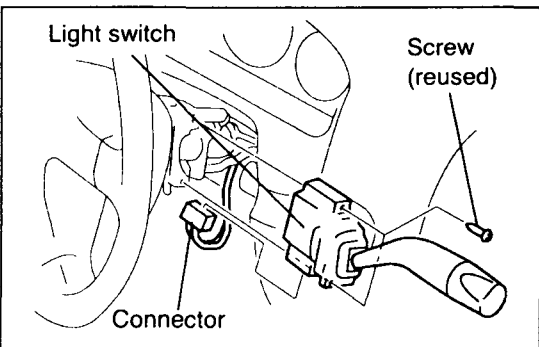
Washer tank removal

1. Remove the air washer tank from the engine compartment.



Column cover removal (Only for vehicles without foglights built into the headlights)

1. Remove the screws (3).
2. Remove the upper column cover.
3. Remove the lower column cover.
4. Remove the illumination socket.



Light switch removal (Only for vehicles without foglights built into the headlights)

1. Remove screws (2).
2. Disconnect the connector, and remove the light switch.

⚠ CAUTION

- The removed screws (2) are necessary for reinstallation. Be careful not to lose them.

Note

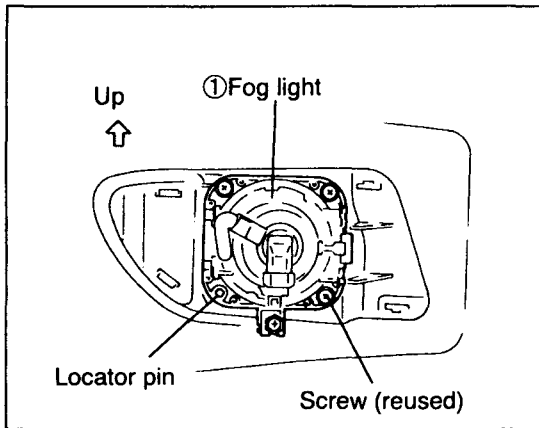
- The removed light switch is not used for this accessory.

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FOG LIGHT INSTALLATION

Note

- Directions are given for the left side. The right is symmetric.

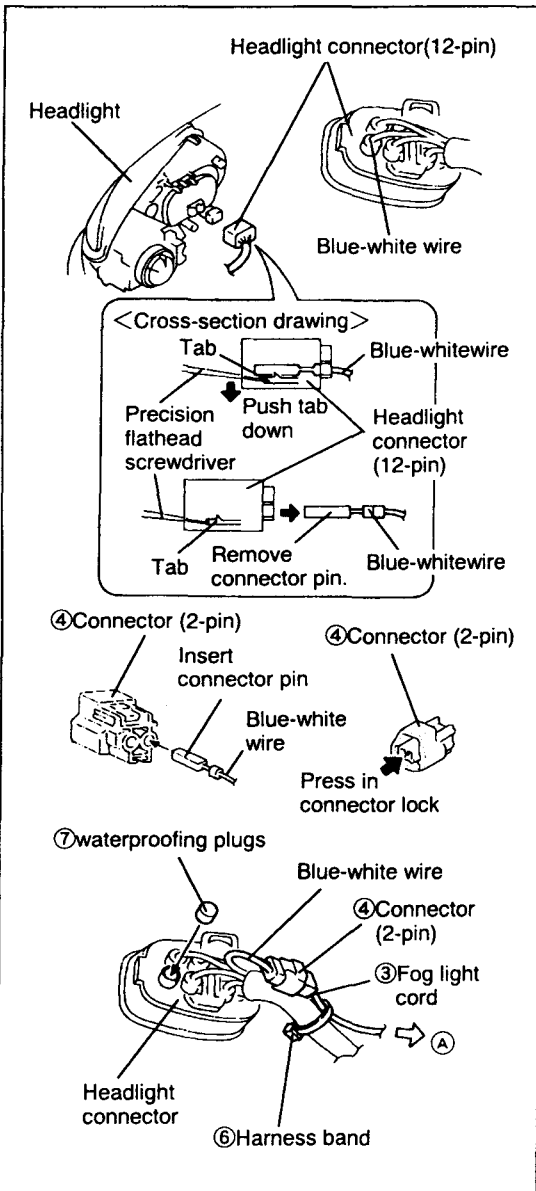


Fog light installation

1. Align fog light ① with the front aero bumper and install the screws (3 both sides).

Tightening torque:

Screw: 0.3–0.8 N · m {3.0–8.1kgf · cm, 2.6–7.0in · lbf}



Fog light cord installation

1. Disconnect the headlight connector (12-pin).
2. Remove the connector pin (blue-white wire) from the headlight connector by pressing the tab downward with a precision flathead screwdriver or similar tool.

⚠ CAUTION

- If the connector pin cannot be removed by lightly pulling it out, do not force it. Perform the removal procedure again.
- After removing the connector pin, be sure to verify that the terminal is not deformed.

3. Connect the removed connector pin (blue-white wire) to connector ④ (2-pin) and press in the connector lock.
4. Install waterproofing plug ⑦ over open terminal in the headlight connector.

⚠ CAUTION

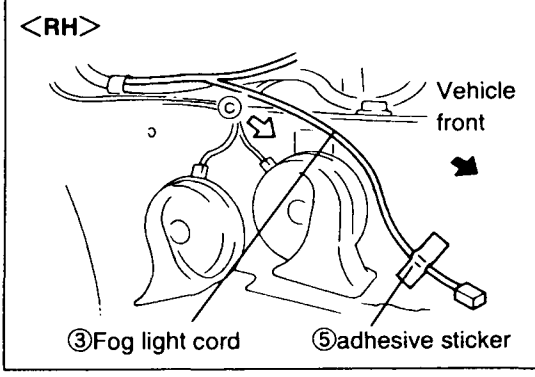
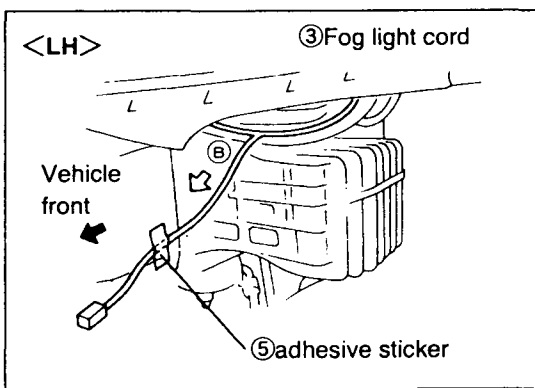
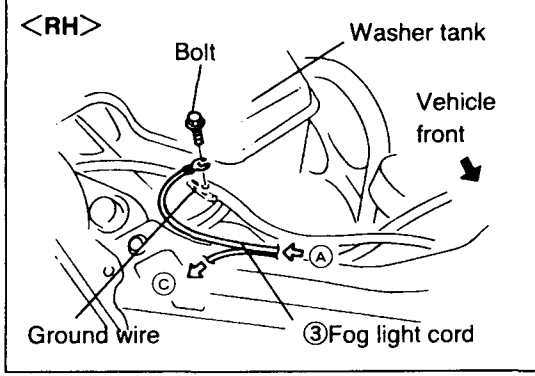
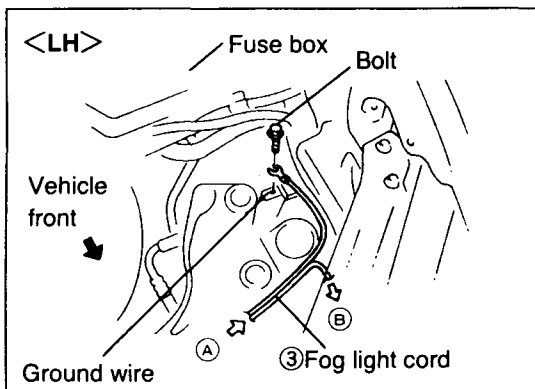
- To prevent water penetration into open terminals in the headlight connector, always install waterproofing plug.

5. Connect fog light cord ③ to connector ④ (2-pin) assembled in Step 3.
6. Using harness bands ⑥ (1 each side), fix the fog light cord ③ to the vehicle harness.

⚠ CAUTION

- Bundle the fog light cord so that it does not interfere with the air conditioner piping, timing belt or other parts of the vehicle.

7. Connect the headlight connector.

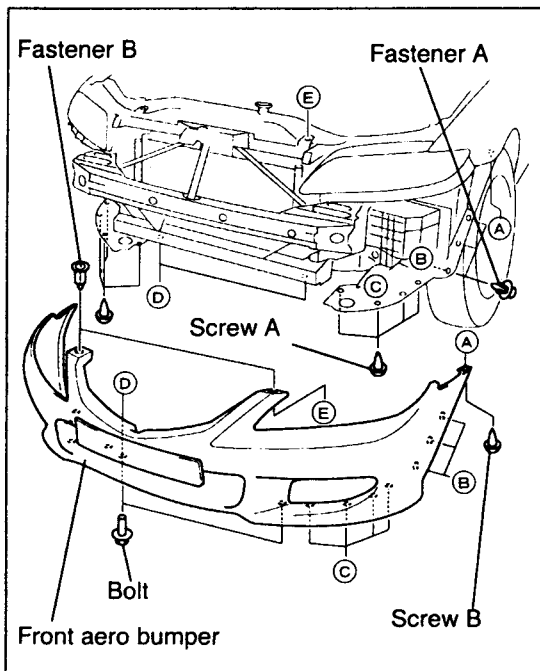


8. Remove the body ground wire bolt and connect the fog light cord ground wire as shown in the figure.

Tightening torque:

Bolt: 2.9–8.3 N · m(0.3–0.8kgf · m, 2.2–5.5ft · lbf)

9. Using the adhesive stickers (5) (1 each side), fix the fog light cord (3) to the vehicle.



Front aero bumper installation

1. Connect fog light cord connector ③ to fog light ①.
2. Install the front aero bumper in the reverse order of removal.

⚠ CAUTION

- Install screw A after completing the fog light cord connection and aiming adjustment.

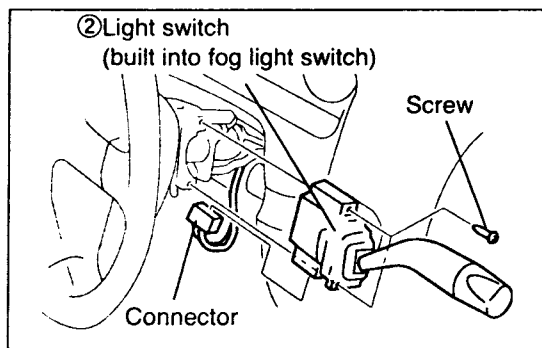
Tightening Torque

Bolt: 6.8–9.8 N · m {70–100kgf · cm, 60–86in · lbf}

Screw B: 2.0–2.9 N · m {20–30kgf · cm, 18–26in · lbf}

⚠ CAUTION

- If the bolts and screws are tightened with non-specified torque, the front bumper might become damaged or fall off. Make sure to tighten the bolts and screws to the specification.



Light switch (built into fog light switch) installation

1. Connect the connector to light switch ② (built into fog light switch).
2. Install light switch ② (built into fog light switch) to the vehicle with the screws (2).
3. Do an operation check. (Refer to "5. Operation check")

Vehicle part reinstallation

1. If there is no malfunction when performing "5. Operation check," install the removed vehicle parts in the reverse order of removal.

6

OPERATION CHECK

- After verifying the harness routing, connect the negative battery cable.
- Check the operation with the following procedure:

< Procedure >

1. Verify that the parking lights illuminate when the light switch is turned to the TNS position.
2. Verify that the headlights illuminate when the light switch is turned to the headlight position.
3. Verify that both the high and low beam illuminate.
4. Verify that the turn lights flash (left/right) when the turn light lever is operated.
5. Verify that the fog lights illuminate when the fog light switch is turned on after the light switch is turned to the TNS or headlight position.
6. Verify that the fog lights turn off when the fog light switch or the light switch is turned off.

< Inspection area if the fog lights do not operate >

NO
→

- Each harness for pinching
- Each connector for poor connection

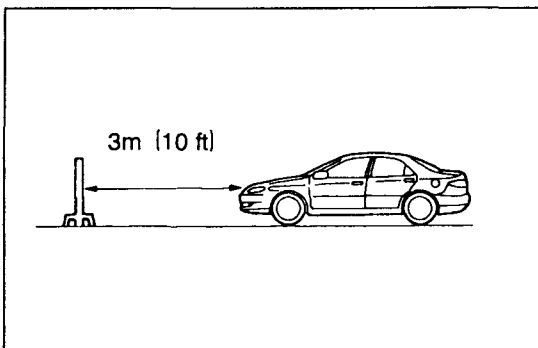
YES



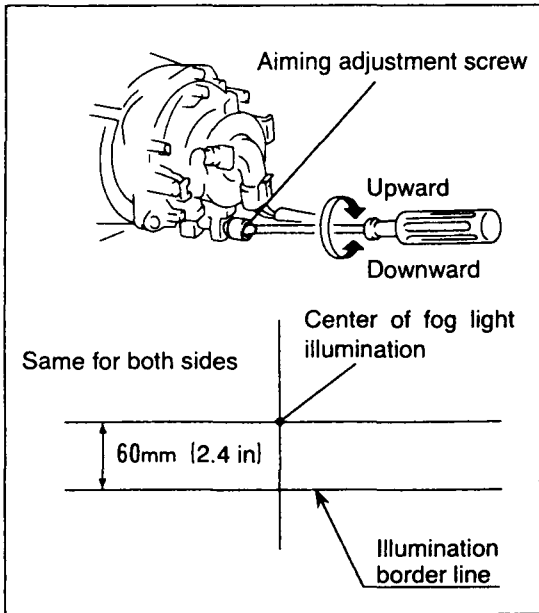
The operation check is complete if there is no malfunction.

7

FOG LIGHT AIMING



1. Adjust the tire air pressure to the specification.
2. Position the unloaded vehicle on a flat, level surface.
3. Seat one person in the driver's seat.
4. Position the vehicle 3 m {10 ft} away from and facing the white screen.
5. While adjusting one fog light, cover the other with a cloth.

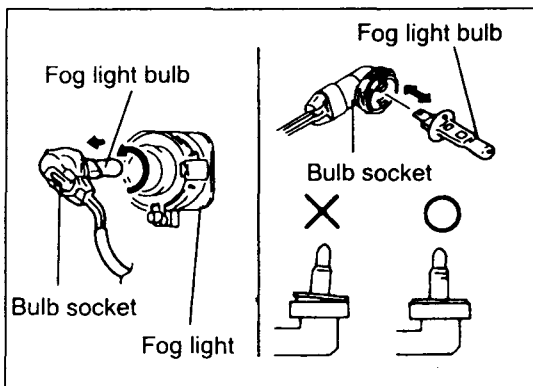


6. Start the engine and make sure that the battery is fully charged.
7. Turn the fog lights on.
8. Partially peeling off the mud guard, turn the aiming adjustment screw behind the fog light to adjust the illumination border line as shown in the figure.

Note

- Loosen the aiming adjustment screw first, then tighten it. If the screw is tightened first, then loosened, it will continue to loosen when the vehicle is in motion and may cause the front fog light to become misaligned.

8 FOG LIGHT BULB REPLACEMENT



WARNING

- If a non-specified fog light bulb is used, it might cause a fire. Make sure to use the specified fog light bulb.

CAUTION

- For fog light bulb replacement, consult your dealer.
- Use fog light bulb.
Part number: 99703 1550 [H1 12V 55W]
- When replacing a fog light bulb, do not touch the glass part of the fog light bulb. Otherwise, bulb life may be decreased.
- Before replacing a fog light bulb, make sure to turn off the light and let the bulb cool, otherwise, you may get burned.

1. Disconnect the negative battery cable.
2. Remove the front bumper.
3. Turn the bulb socket counterclockwise to remove it.
4. Replace the fog light bulb.
5. Install the bulb socket turning it clockwise.
6. Install the removed parts in the reverse order of removal.

INSTALLATION INSPECTION SHEET

Mazda6

FOG LIGHT

G22B V7 220F

A. Reinstallation of vehicle parts

- Install in the reverse order of "4.Part removal."

⚠ CAUTION:

- After installing the vehicle parts, check for dirt. Clean any dirty parts.

B. Inspection items after installation

- Inspect the installed/reinstalled parts for the following items.

| Inspection Parts | Inspection Items (○) | | | | |
|-------------------|----------------------|--|--|--------------------|------------|
| | Clearance/Fit | Scratches/ Dirt/ Harness interference | Installation/ Tightening/ Engagement | Operation check | Adjustment |
| Radiator grille | ○ | ○ | ○ | | |
| Front aero bumper | ○ | ○ | ○ | | |
| Mud guard | ○ | ○ | ○ | | |
| Air cleaner | ○ | ○ | ○ | | |
| Washer tank | ○ | ○ | ○ | | |
| Fog light switch | ○ | ○ | ○ | ○ | ○ |
| Light switch | ○ | ○ | ○ | ○ | |
| Column cover | ○ | ○ | ○ | | |

Installation inspection sheet for fog light

| | | | | | |
|----------|--|---------|--|------------------|--|
| Date | | | | | |
| VIN. | | | | | |
| Approved | | Checked | | Person in charge | |

The term of validity for
this sheet: 3 months