

GENUINE FRONT FOG LAMP KIT

INSTALLATION INSTRUCTIONS

Thank you for purchasing a Genuine Mazda Accessory.

Before removal and installation, Please thoroughly read these instructions.

For your safety, please read the contents of this Booklet to properly install and use the front fog lamp kit.

Keep these instructions with your vehicle records for future reference.



- 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 the instructions 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 by 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 doubt, please contact 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 of dirt, scratches, or damage.

PART NAME: FRONT FOG LAMP KIT

PART NUMBER: GMN3 V4 600

VEHICLE: MAZDA 6

NOTE

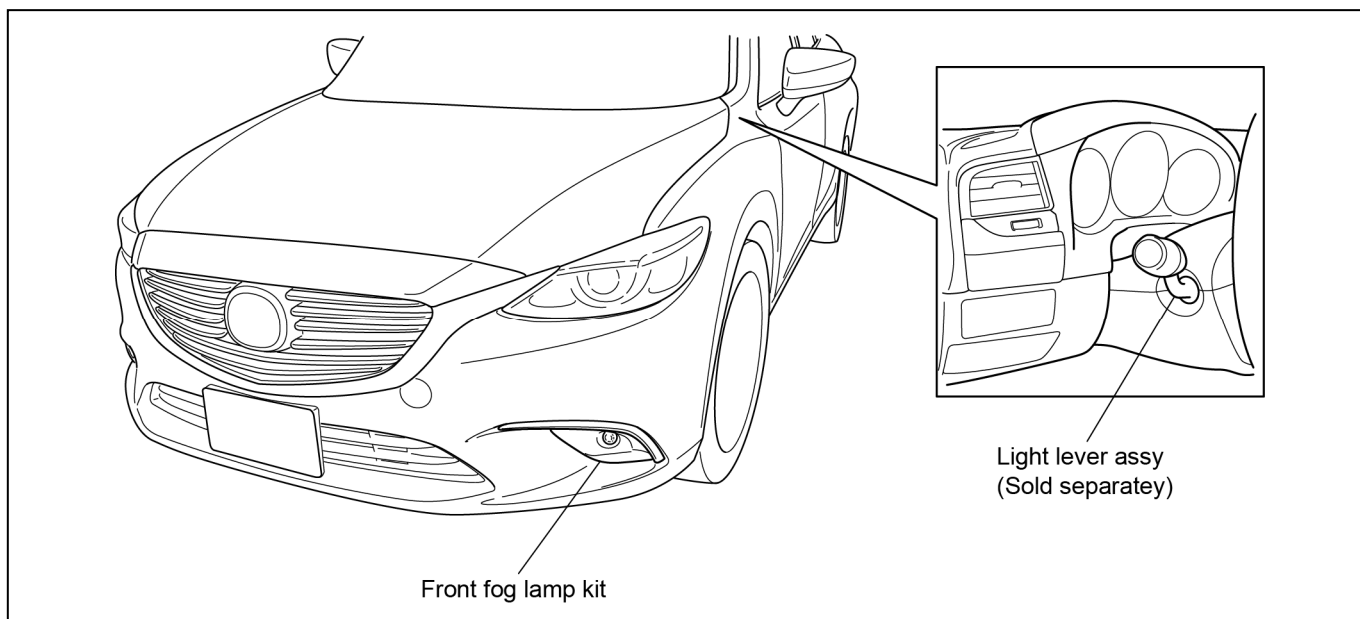
To the dealer

- 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 transfer these instructions to 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
	Fog lamp (RH, LH)	Each 1		Lamp hole cover (RH, LH)	Each 1
	Tapping screw	6		Clip (Vehicle harness clip for exchange)	3
	Installation manual	1			

Sold separately

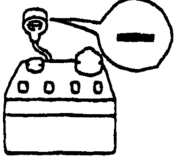

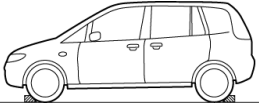

Part	Part name	Qty
	Light lever assy	1

3. BEFORE INSTALLATION

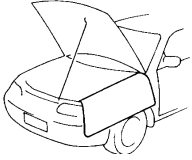
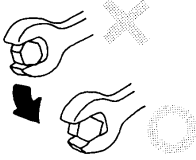
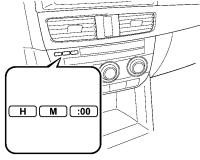
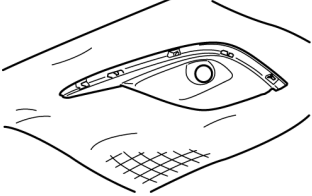
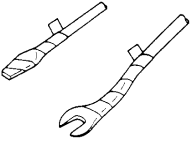
■ REQUIRED TOOLS

- ☆Screwdriver (Phillips) ☆Flathead screwdriver ☆Socket wrench (10mm) ☆Torque wrench
- ☆Protective cloth ☆Masking tape ☆Fastener remover

⚠ 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 installation.</p>	<p>When the negative battery cable is disconnected from the battery, 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>			
			

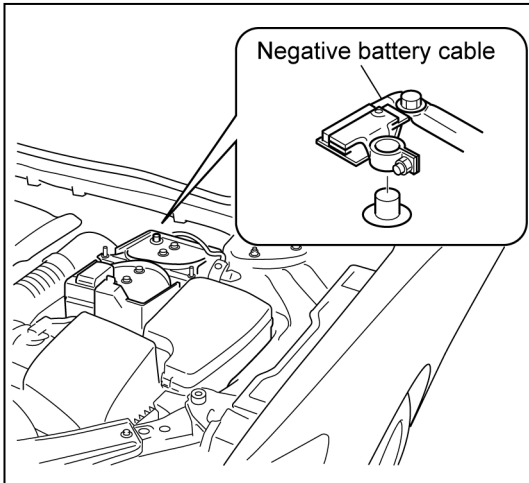
Advice

<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

⚠ CAUTION

- Be careful not to damage or lose any parts removed from the vehicle since they will be reused.



Negative battery cable disconnection

1. Set the selector lever to P range.
(AT vehicles only)

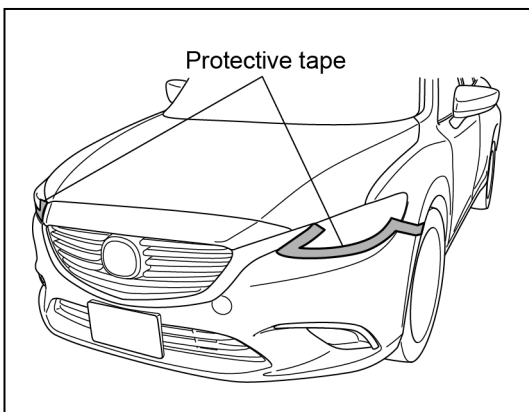
⚠ WARNING

- 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 injury or vehicle damage.

2. Disconnect the negative battery cable and wrap tape around it to insulate.

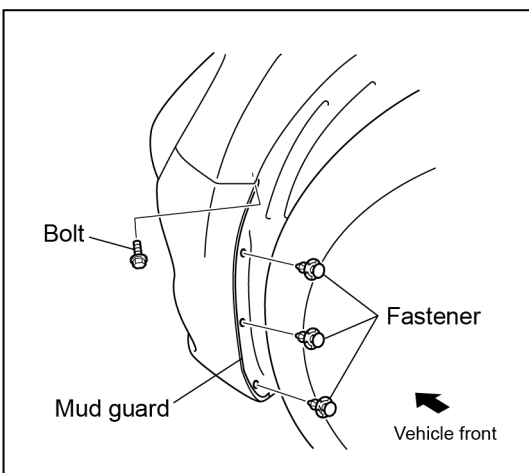
⚠ WARNING

- When the negative battery cable is connected during operation, it may cause electrocution or other injuries. Disconnect the negative battery cable before removal/installation.

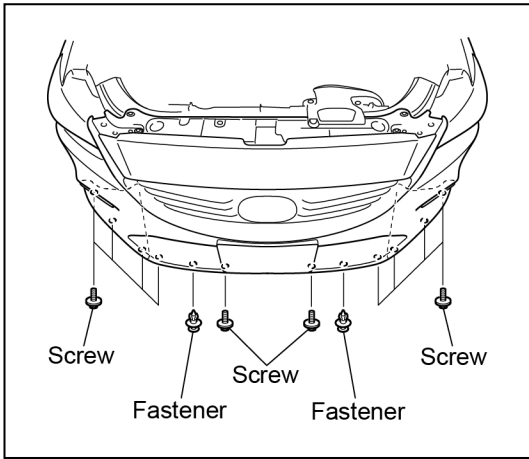


Front bumper removal

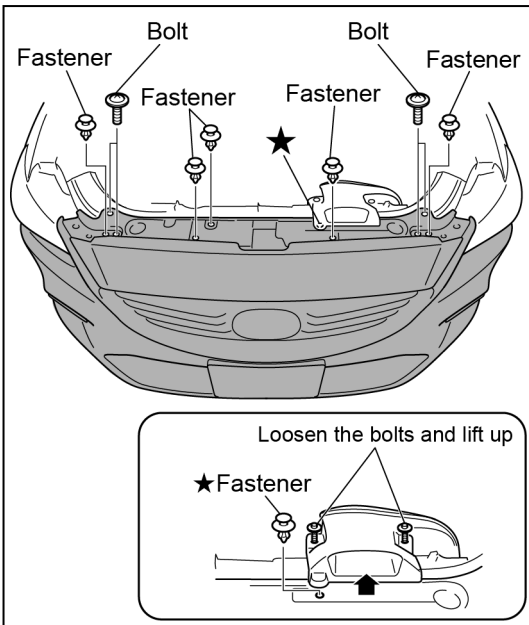
1. Attach protective tape to the front bumper as shown in the illustration at left to protect the vehicle.



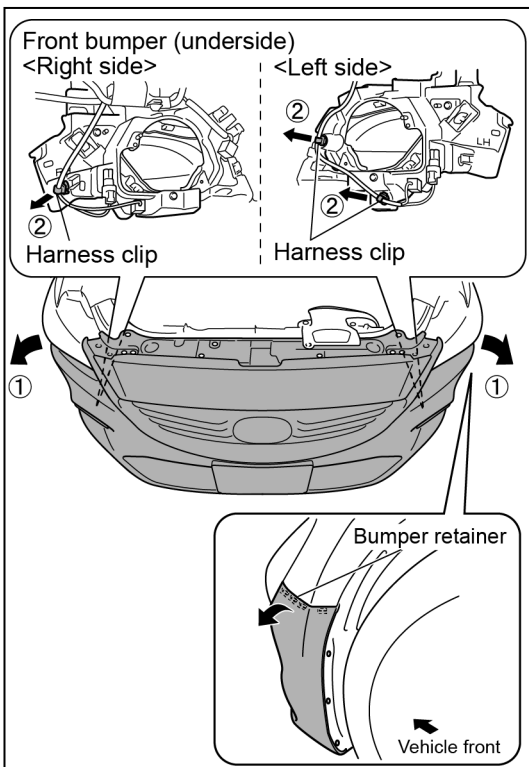
2. Remove the three mud guard fasteners and the bolt.
(Remove from the opposite side in the same way.)



3. Remove the ten screws and two fasteners from the undercover underneath the bumper.

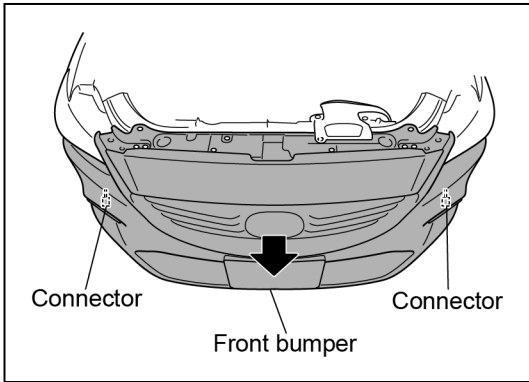


4. Remove the six fasteners and the four bolts on top of the front bumper.

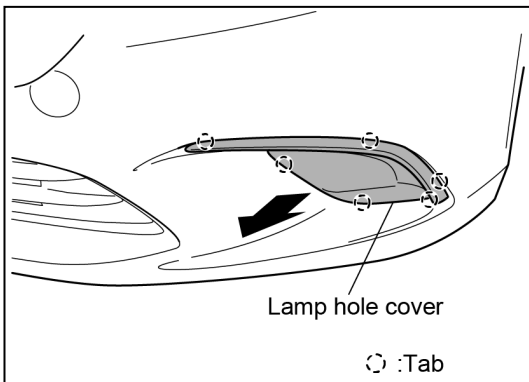


5. Disengage the tabs of the bumper retainers on each side from the front bumper. (Arrows (1))

6. Remove the harness clips which are installed to the fog lamp brackets on the underside of the front bumper. (Arrows (2)) (Right: 1 place Left: 2 places)

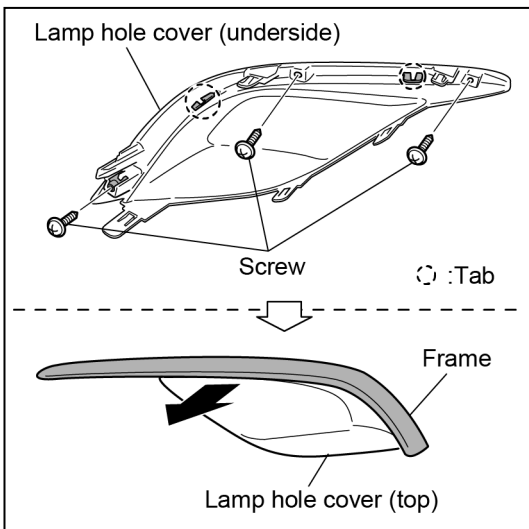


7. Remove the front bumper.
8. Disconnect the fog lamp connector on the underside of the fog lamp cover.



Lamp hole cover removal

1. Disengage the six tabs, and then remove the lamp hole cover from the front side of the front bumper.

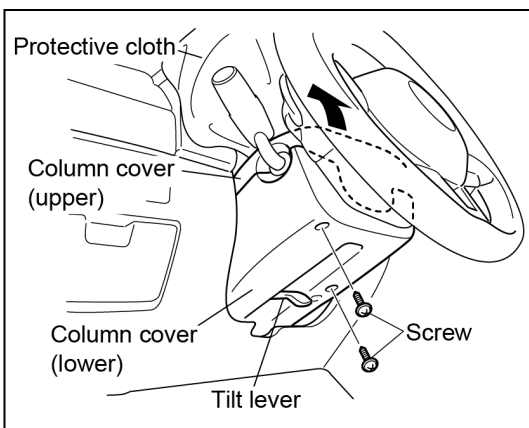


2. Remove the three screws from the underside of the lamp hole cover.
3. Disengage the two tabs, and then remove the frame. (Remove from the opposite side in the same way.)

- The removed frame and screws will be reused.

4. Install the frame to the lamp hole cover by following the removal procedure in reverse.

- The removed lamp hole cover (existing part) will not be reused.

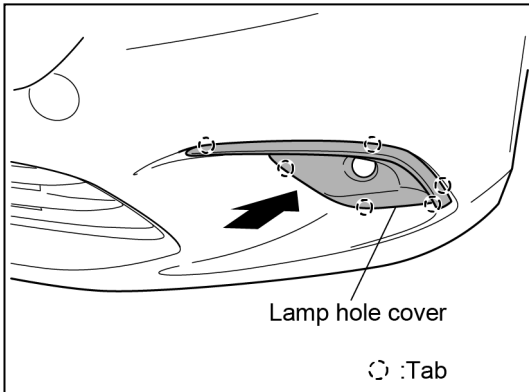


Column cover removal

- Cover the surface of the meter with the protective cloth to prevent it from becoming scratched.

1. Lower the tilt lever to unlock the steering column.
2. Cover the meter with the protective cloth.
3. Lower the steering wheel and then pull it forward.
4. Pull the column cover (upper) upward to disengage it.
5. Remove the two screws which are securing the column cover (lower).

5. INSTALLATION OF THE FOG LAMP KIT



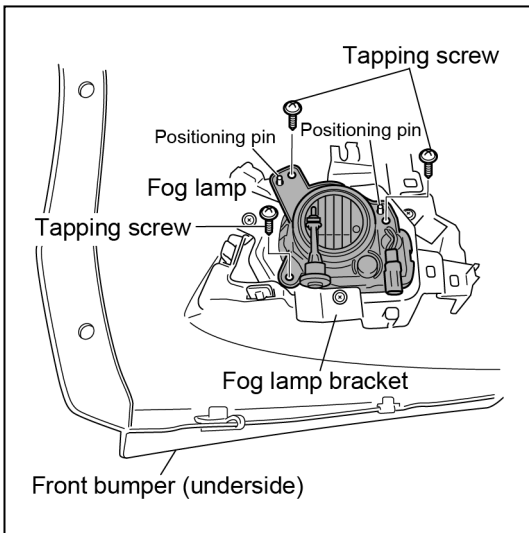
Fog lamp installation

- Perform the same procedure on the opposite side.

1. Install the fog cover to the front side of the front bumper by following the procedure for removing the existing lamp hole cover in reverse. (Tabs: 6 places)

2. Install the fog lamp to the fog lamp bracket with the three tapping screws.

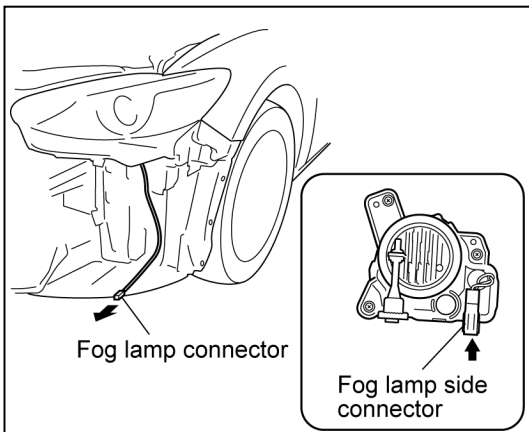
Screw tightening torque: (0.3–1.5 N·m)

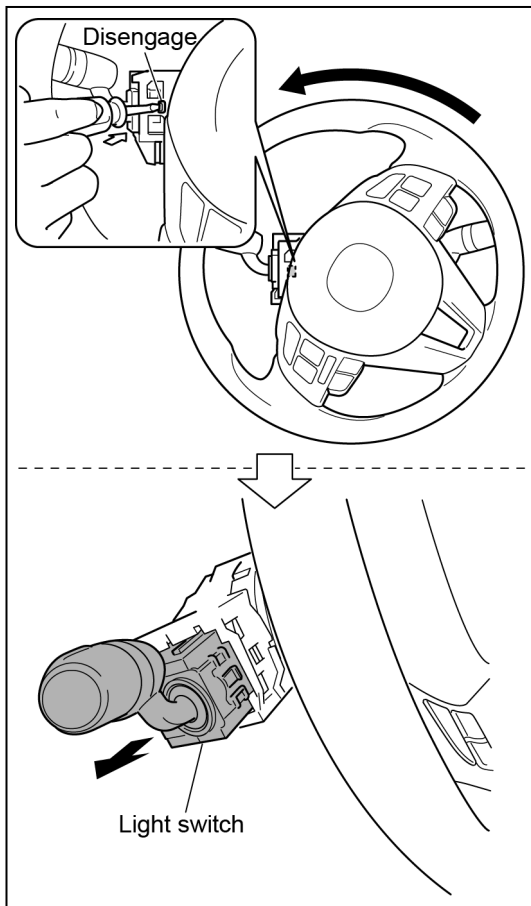


3. Connect the vehicle-side fog lamp connector to the respective fog lamp side connector.

4. Use the clips which are included in the kit to secure the harness. (3 places)

5. Install the front bumper by following the removal procedure in reverse.





Light switch installation

1. Turn the steering wheel (refer to the illustration at left) to disengage the hook of the light switch.
2. Remove the light switch by pulling it in the direction of the arrow.

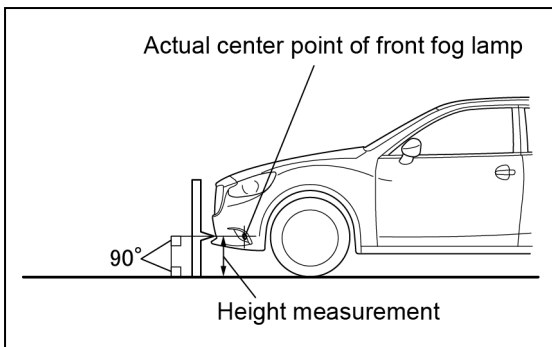
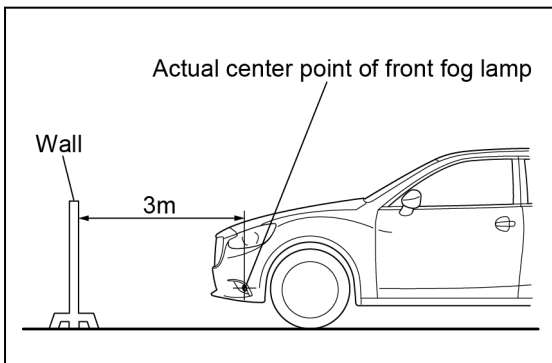
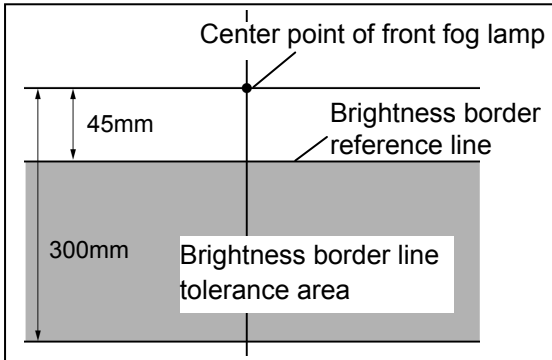
- The removed light switch will not be reused.

3. Install the new light switch by following the procedure for removing the existing light switch in reverse.

Column cover installation

1. Install the column covers by following the removal procedures in reverse.

6. FOG LAMP AIMING

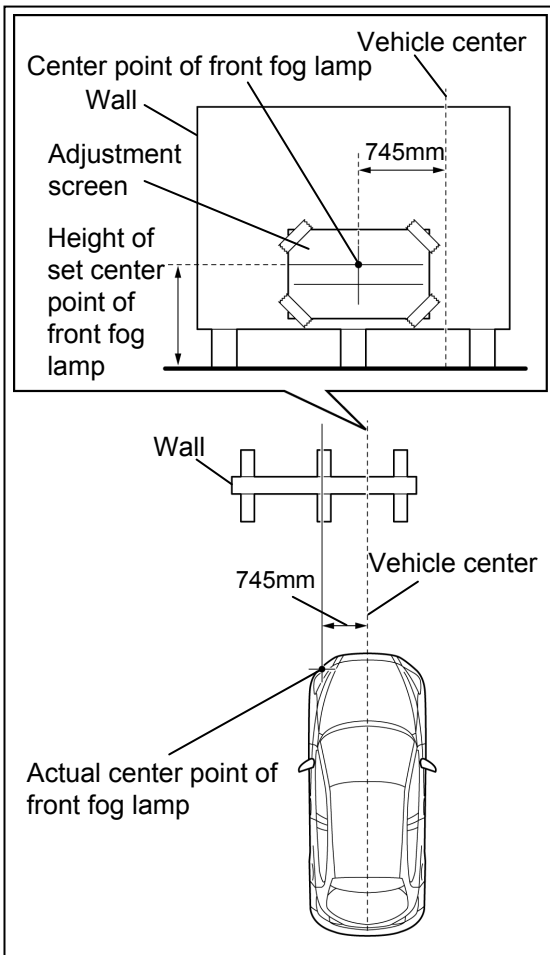


Front fog lamp aiming adjustment

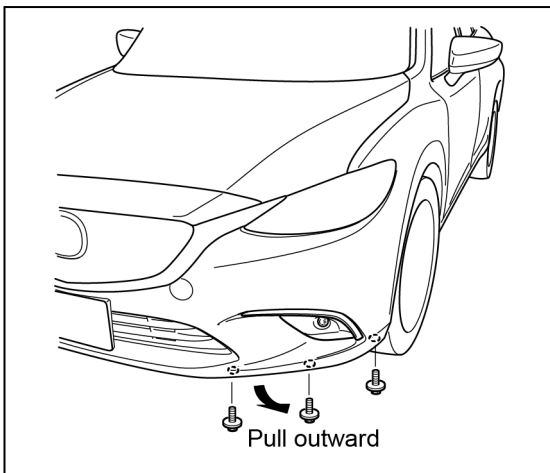
1. Empty the vehicle except for the spare tire, jack and vehicle tools so that the vehicle is at the standard equipped weight.
2. Adjust the tire pressure to the specification.
3. Move the vehicle to level ground.
4. The driver must sit inside the vehicle.
5. Make an adjustment screen as shown in the figure using a thick piece of white paper. (Common to both left and right)
6. Line up the vehicle and the wall so that they are perpendicular, and so that the distance between the front fog lamps and the wall is 3 m.
7. Measure the height at the center point of the front fog lamp.

NOTE

- Because the vehicle height differs depending on vehicle conditions, measure the actual height of the center point of the front fog lamp for which the aiming is being adjusted.

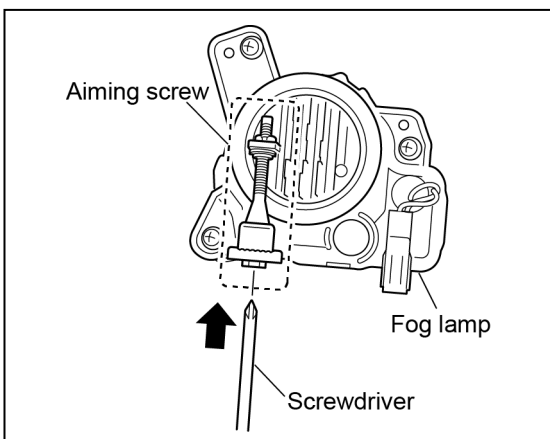


8. Align the center point of the front fog lamp which is being adjusted with the center point of the adjustment screen.
9. Set a partition or similar in front of the front fog lamp which is not being adjusted to block the light.
10. Start the engine and charge the battery.
11. Turn on the front fog lamps.
12. Verify that the actual brightness border line is in the brightness border line tolerance area indicated on the adjustment screen.

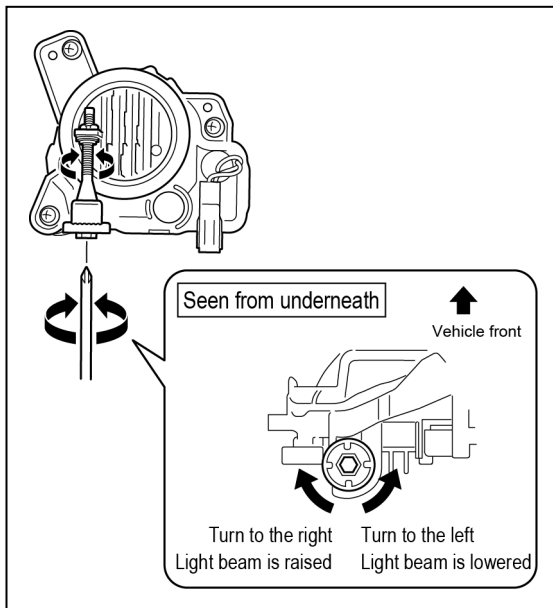


13. If the brightness border line in step 12 is not in the brightness border line tolerance area indicated on the adjustment screen, carry out the following adjustment.

- ① Remove the three fasteners for the undercover underneath the front bumper, and then pull the undercover outward



- ② Insert a screwdriver upward into the aiming screw at the back of the front fog lamp.



- ③ When the screwdriver is turned in the direction of the arrow, the aiming screw turns and the optical axis can be adjusted. Adjust so that the brightness border line is aligned with the brightness border reference line.
- ④ Return the under cover to its original position, and then install the three fasteners.

7. OPERATION CHECK

Connect the current sensor connector.
Connect the negative battery cable.

Nut tightening torque : 4.0—6.0 N·m

- If the battery would be disconnected, some functions will no longer operate. See the vehicle workshop manual or owner's manual, and perform "Servicing after re-connecting the negative battery cable"
- Turn the ignition switch to ON and check the operation of the fog lamps.

Fog lamp operation check

1. Turn the headlight switch to $\Rightarrow \text{D} \Leftarrow$ position, and check if the position (parking) lights are on.
2. Turn the headlight switch to $\equiv \text{D}$ 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 $\# \text{D}$ position, then check if the fog lights are on.
6. Turn the headlight switch to either $\Rightarrow \text{D} \Leftarrow$ position or $\equiv \text{D}$ position with high beam, check if the fog lights are off even the fog light switch is $\# \text{D}$ 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.

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

INSTALLATION INSPECTION SHEET	MAZDA 6	FRONT FOG LAMP KIT
		GMN3 V4 600

Perform the following inspections

1. Inspection items after installation

Check

- Verify the fitting between the vehicle part and the installed part, and inspect for damage or dirt.

Check

- When connecting the connectors, check the connections to make sure that none are partially connected or unconnected.
(Push the connectors in again to make sure.)

2. Vehicle parts reinstallation

Inspection Parts	Inspection Items	Inspection	Check
Negative battery cable	Torque check	Are the battery cables securely tightened to the terminals? Tightening torque : 4.0—6.0N·m	
Function restore procedure after removal/installation of battery	Operation check	Have the vehicle's functions been restored by referring to "Required servicing after disconnecting/connecting negative battery cable", in the vehicle workshop manual or the owner's manual?	
Headlights, turn indicators	ON/OFF operation	Operate the light switches and check that the lights turn on and off.	
Signature wing illumination	ON/OFF operation	Operate the signature wing illumination and check that the lights illuminate.	

3. Installation of accessory, operation check

Inspection Parts	Inspection Items	Inspection (interior/exterior part)	Check
Fog lamps	ON/OFF operation	Operate the light switches and check that the lights turn on and off.	
	Looseness & play	Check that there is no looseness or play in the connections.	