

GENUINE FOG LAMP KIT

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 lamp. 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 safely when installing or removing the fog lamp. 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 lamp.
- Do not install the fog lamp 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 LAMP KIT
VEHICLE: Mazda CX-9
PART NUMBER: TD11 V7 220F

NOTE

To the dealer

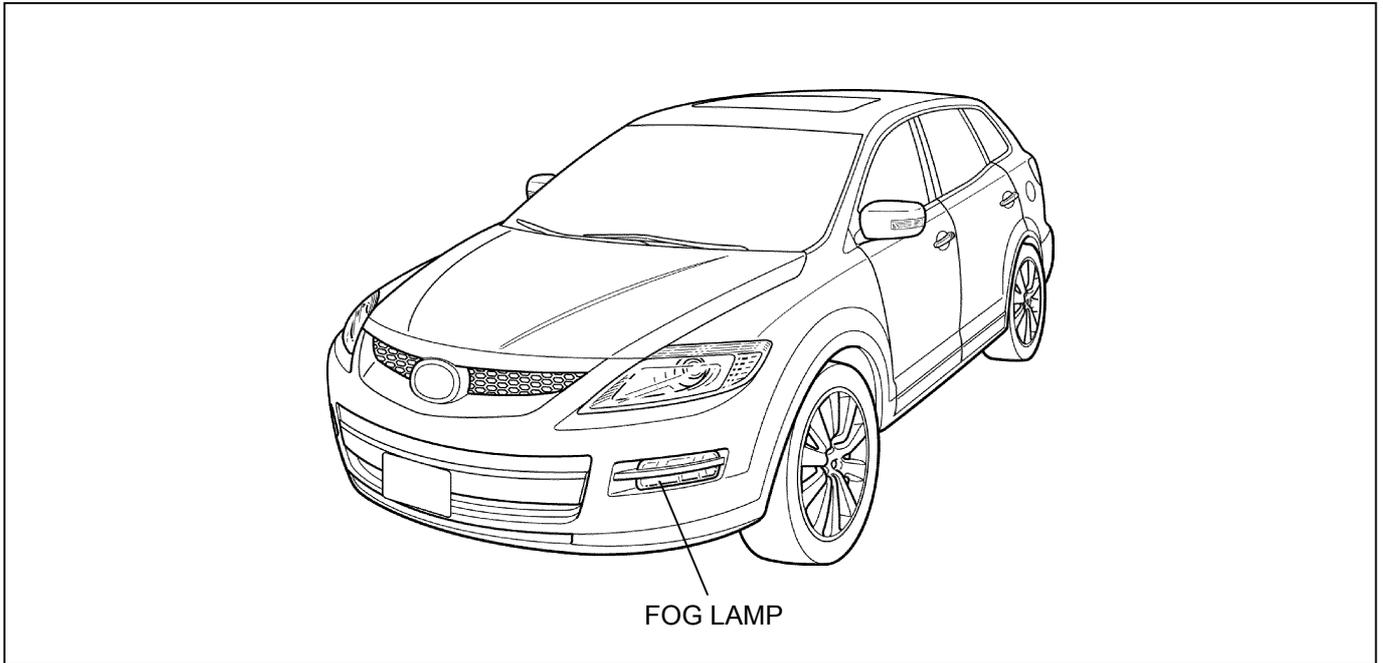
- Please turn over these instructions to the customer after installation.

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. PARTS

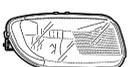
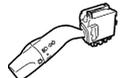
▼ Installation view



▼ Parts list

Note

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

Part	Part name / number	Qty.	Part	Part name / number	Qty.	Part	Part name / number	Qty.
	Fog lamp (RH:TD11 51680) (LH: TD11 51690)	1 ea.		Fog lamp bracket (RH:TD12 51684) (LH: TD12 51694)	1 ea.		Light switch (built into fog lamp switch) (GJ6H 66122)	1
	Tapping screw (99865 0516)	8		Bolt (BA1E 500Z2)	4		Installation and user's instructions	1

For fog lamp installation, the following separately-sold parts are necessary.

Fog lamp hole cover: TD11 V7 247F

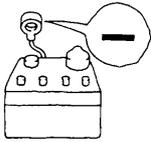
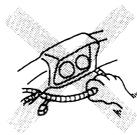
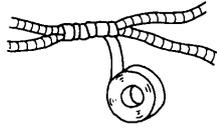
Front fog lamp harness: TD11 V7 235

2. BEFORE INSTALLATION

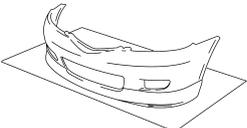
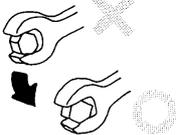
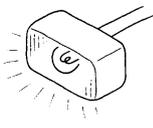
■ REQUIRED TOOLS

★Phillips screwdriver (Stubby, Long) ★Torque wrench ★Fastener remover ★Mat ★Flathead screwdriver

⚠ WARNING

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.	When connecting/disconnecting connectors, grasp the connectors, not the wires. Otherwise a short, an accident from poor contact or fire may occur.	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.	Secure the harness with the band (part included) so it doesn't dangle. If not, it may cause a short, accident, or fire.
			

⚠ CAUTION

Put the removed parts and the parts in the kit on the protective sheet to prevent scratches.	Using improper tools may cause damage and or broken parts. Use the correct tool for the job.	Be sure to cover the vehicle body with protectors or mats to prevent stains, scratches and damage when removing/installing the vehicle parts.	Using nonstandardized bulbs can cause damage. Verify that the head light or fog lamp bulbs are standardized.
			

⚠ 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

- 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.
- 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.

3. PART REMOVAL

⚠ CAUTION

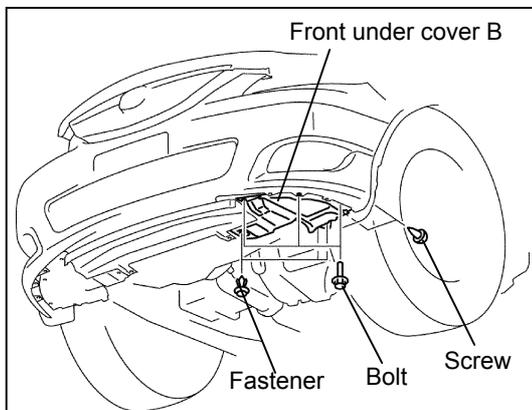
- Be careful not to damage or lose any parts removed from the vehicle since they will be reused.

Negative battery cable disconnection

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

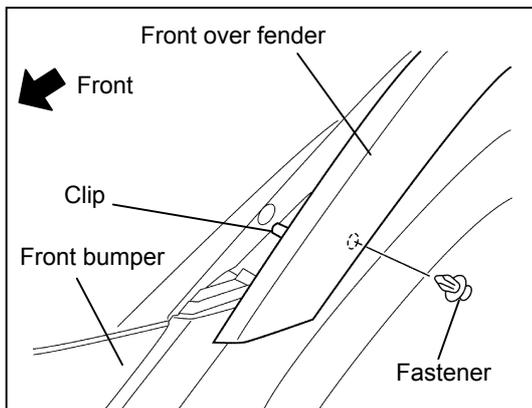
⚠ CAUTION

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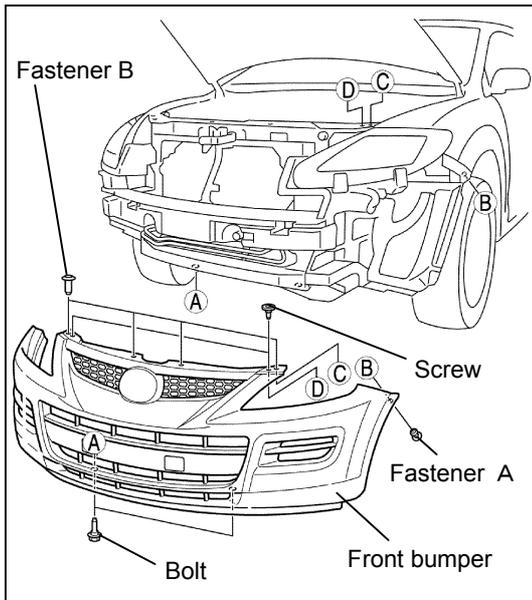
Front under cover B removal (Each side)

1. Remove the screws (2 each side).
2. Remove the bolts (3 each side).
3. Remove the fasteners (2 each side).
4. Remove the front under cover B.



Front bumper removal

1. Remove the fastener (1 location) at the end of the front over fender. (Each side)
2. Detach the clip at the end of the front over fender. (Each side)



3. Remove bolts (2).

Tightening torque:

6.9—9.8 N·m {70.3—99.9 kgf·cm, 61.1—86.7 in·lbf}

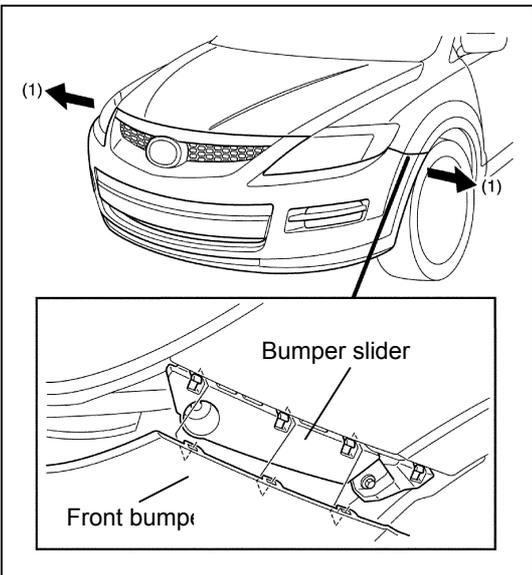
4. Remove fastener A (1 each side).

5. Remove fasteners B (4).

6. Remove screws (2).

Tightening torque:

6.9—9.8 N·m {70.3—99.9 kgf·cm, 61.1—86.7 in·lbf}



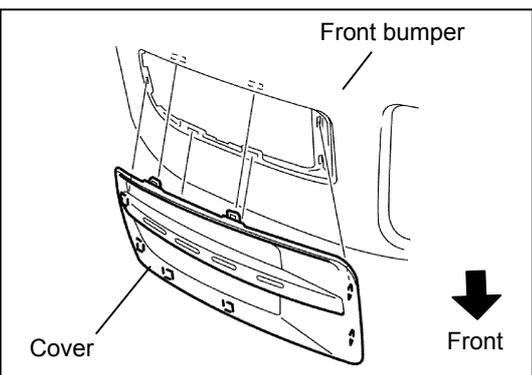
7. Pull in the front bumper ends (wheel arch) outward (1) to disengage from the bumper slider.

CAUTION

- When disengaging the front bumper from the bumper slider, the front bumper could fall and be damaged. Secure the front bumper so that it does not fall.

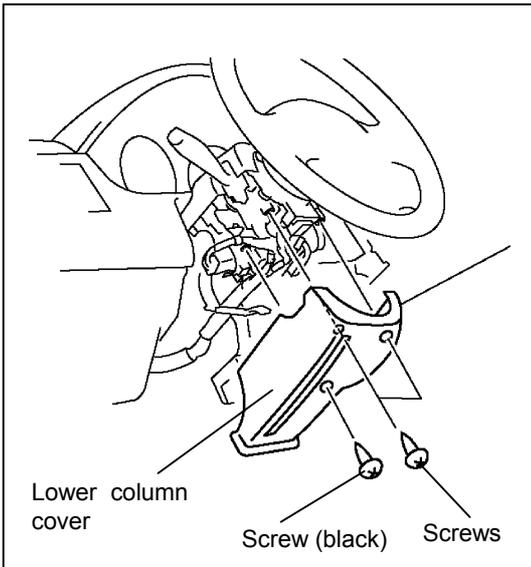
8. Disconnect the front fog light connector.

9. Remove the front bumper from the body.



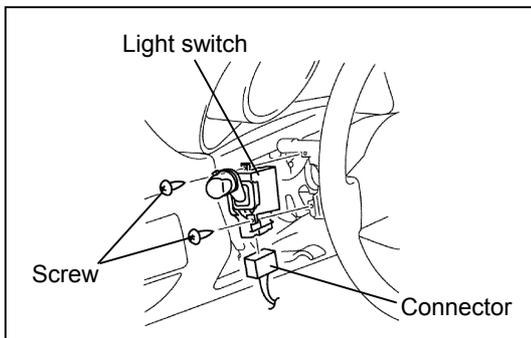
Cover removal

1. Pinch the tabs (8 locations) from the back of the front bumper and remove the cover. (Each side)



Column cover removal

1. Remove the screws (3).
2. Remove the lower column cover.



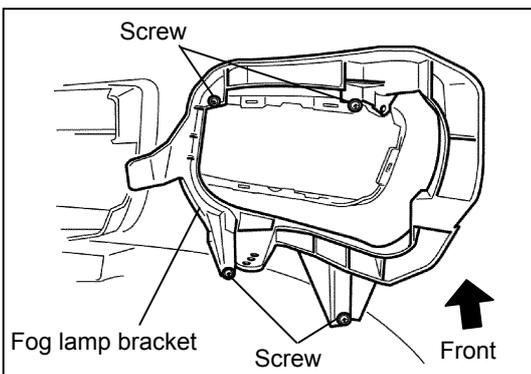
Light switch removal

1. Remove the screws (2).
2. Pull the light switch outward.
3. Disconnect the connector and remove the light switch.

⚠ CAUTION

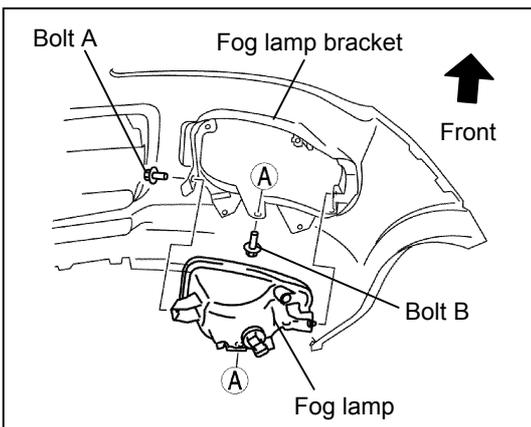
- The removed screws (2) are necessary for reinstallation. Be careful not to lose them.
- The removed light switch is not used for this accessory.

4. KIT ACCESSORY INSTALLATION



Fog lamp installation (left/right)

1. Using the reused tapping screws (4 each side), install the fog lamp bracket (each side) to the front bumper.



2. Using bolt (2 each side), then install the fog lamp to the fog lamp bracket.

Tightening torque

Bolt A : 0.3—1.5 N·m

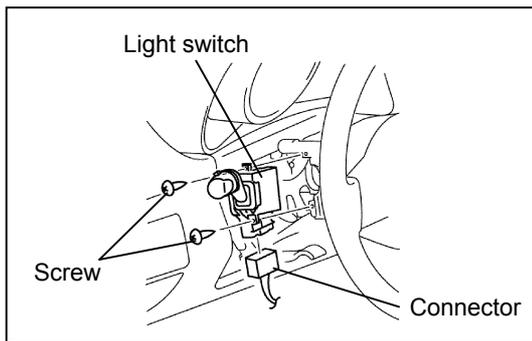
{3.1—15.2 kgf·cm, 2.7 – 13.2 in·lbf}

Adjusting bolt B : 1.4—1.8 N·m

{14.3—18.3 kgf·cm, 12.4 – 15.9 in·lbf}

3. Install the bumper in the reverse order of removal.
4. Install the separately-sold fog lamp hole cover.
(TD11 V7 247F)

5. LIGHT SWITCH INSTALLATION



1. Connect the light switch connector.
2. Insert the light switch and install it using the screws (2).
3. Install the column cover in the reverse order of removal.
4. Perform the installation inspection.
(Refer to "6.OPERATION CHECK ")

6. OPERATION CHECK

- After verifying the harness routing, connect the negative battery cable.

⚠ CAUTION

- When the battery is disconnected, the windows will not fully open and close automatically. Perform the following procedure to resume operation:
 1. Turn the ignition switch to the ON position.
 2. Press the switch and fully open the window.
 3. Pull up the switch and continue holding for about 2 seconds to fully close the window.
 4. If the function does not operate even after the ignition switch is turned off, contact an Authorized Mazda Dealer.

- Check the operation with the following procedure:

< Inspection procedure >

1. Verify that the headlights illuminate when the light switch is turned to the headlight position.
2. Switch the headlights between high beam and low beam.
3. Verify that the turn lights flash (left/right) when the turn light lever is operated.
4. Verify that the fog lamps do not illuminate when the fog lamp switch is turned on with the headlight switch turned off or the headlights set to high beam.
5. Verify that the fog lamp illuminate when the fog lamp switch is turned on with the headlights set to low beam.
6. Verify that the fog lamps turn off when the fog lamp switch or the light switch is turned off.

< Inspection area if the fog lamps do not operate >



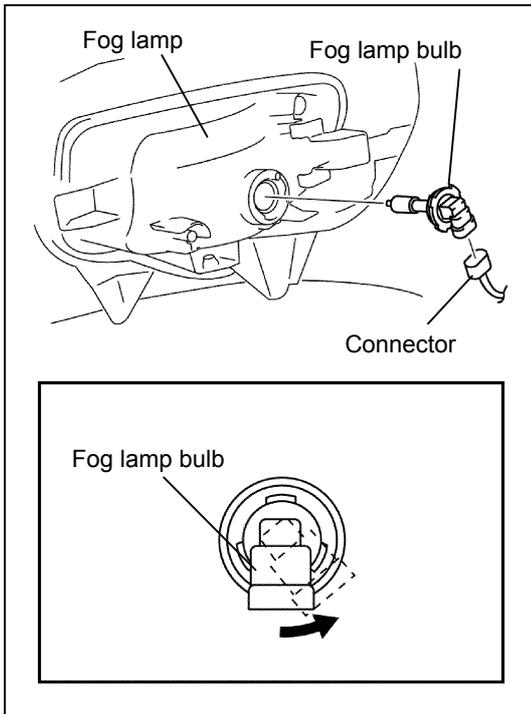
- Each harness for pinching
- Each connector for poor connection.

YES



The operation check is complete if there is no malfunction.

7. FOG LAMP BULB REPLACEMENT



⚠ WARNING

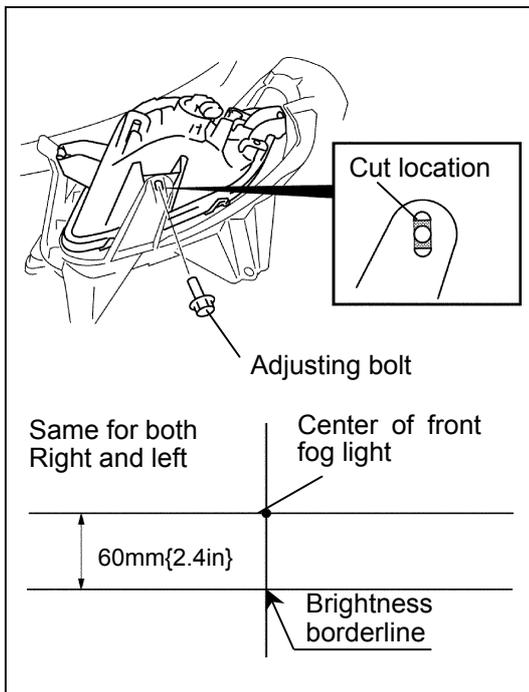
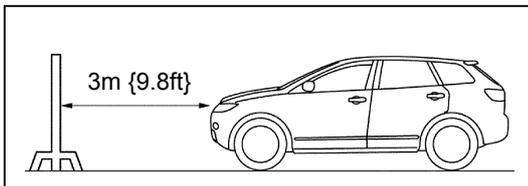
- If a non-specified fog lamp bulb is used, it might cause a fire. Make sure to use the specified fog lamp bulb.

1. Disconnect the negative battery cable.
2. Slightly bend back the front under cover B.
3. Disconnect the connector from the fog lamp.
4. Replace the fog lamp bulb.
5. Install the bulb socket turning it clockwise.
6. Install the front bumper in the reverse order of removal.

⚠ CAUTION

- For fog lamp bulb replacement, consult your dealer.
- Use fog lamp bulb.
Part number: 99703 7550 [HB4 12V 51W]
- When replacing a fog lamp bulb, do not touch the glass part of the fog lamp bulb. Otherwise, bulb life may be decreased.
- Before replacing a fog lamp bulb, make sure to turn off the light and let the bulb cool, otherwise, you may get burned.

8. FOG LAMP AIMING ADJUSTMENT



1. Adjust the tire pressure to the specification.
2. Position the unloaded vehicle on a flat, level surface.
3. Seat one person in the driver's seat.
4. Line up the headlights with the white screen at a distance of **3m {9.8ft}** apart.
5. Place an object in front of the fog lamp not being adjusted to block its light beam.
6. Start the engine so that the battery remains charged.
7. Turn the fog lamp on.
8. Bend back the front under cover B, remove the adjusting bolt and cut the fog lamp bracket at the position shown in the figure.
9. Loosen the adjusting bolt, move the fog lamp in the direction of the arrows, and adjust the center of the fog lamp to the position shown in the figure.
10. Install the adjusting bolt and tighten the adjusting bolt.

Tightening torque

Adjusting bolt : 1.4–1.8 N·m

{14.3–18.3 kgf·cm, 12.4 – 15.9 in·lbf}

⚠ CAUTION

- Tighten the aiming adjustment bolt securely. Otherwise the aiming could deviate if the bolt loosens. Make sure to tighten to the specified torque. If tightened outside the specified torque, the fog lamp hole cover could be damaged or fall off.

INSTALLATION INSPECTION SHEET

**Mazda
CX-9**

FOG LAMP KIT

TD11 V7 220F

A. Inspection 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
Fog lamp (RH, LH)	○	○	○	○	○
Light switch	○	○	○	○	
Column cover	○	○	○	○	
Front bumper	○	○	○		
Front under caver B	○	○	○		
Fog lamp bracket (RH, LH)	○	○	○		
Negative battery cable	○	○	○		
Windows fully open and close automatically				○	

Installation inspection sheet for fog lamp kit

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

The term of validity for this sheet: 12 months