

GENUINE FRONT AIR DAM SKIRT INSTALLATION INSTRUCTIONS

Thank you for purchasing a genuine Mazda Front Air Dam Skirt.
Before operating this accessory, be sure to thoroughly read these handling (installation) instructions. Then, use it correctly with a good understanding of its contents.
Be sure to keep these instructions with your vehicle records for your future reference whenever you use it.

WARNING

- There are several  **WARNING** and  **CAUTION** sections in this booklet concerning safety installing and handling this product. Be sure to observe their contents strictly.
- Do not modify this product before installing it.
- Do not install and use this product in any other way other than described in these instructions in any case.
- To avoid making mistakes as much as possible in installing this product, installation must be carried out by an Authorized Mazda Dealership.
- If you have any doubt about the installation and handling of this product, please ask your Mazda dealer and then handle it with a good understanding.
- We shall assume no responsibility for any fault that may be caused by non-observance of the contents described in this booklet.

1

PART NUMBER: **BN8PV4900F (for vehicles without fog lamps)**
BN8RV4900F (for vehicles with fog lamps)

PART NAME: **FRONT AIR DAM SKIRT**

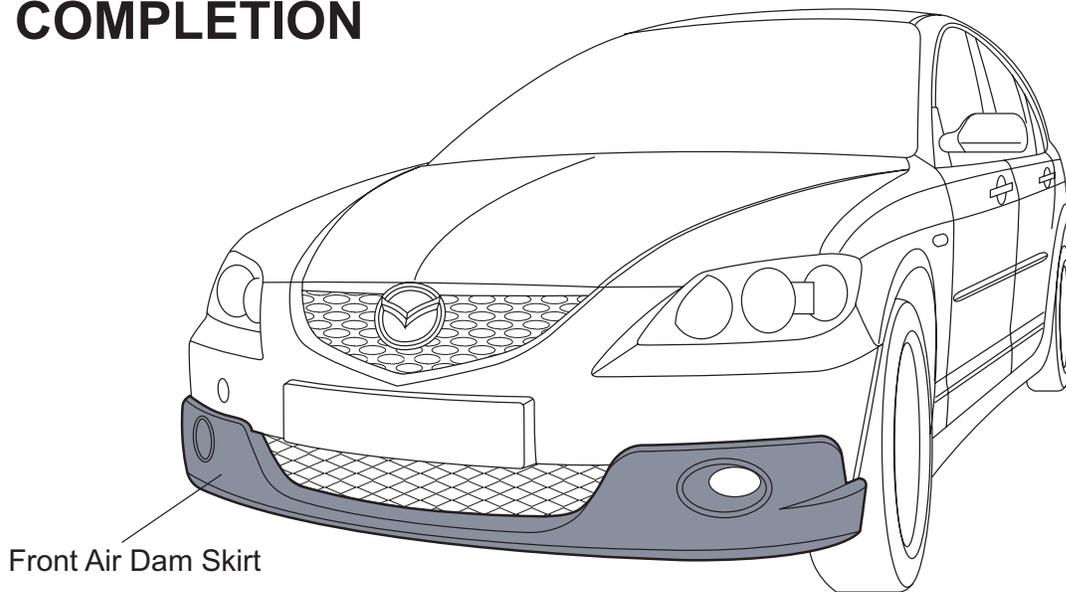
VEHICLE: **MAZDA 3 (sedan)**

* If the applicable model is unclear, ask the Mazda dealer about it for your confirmation.

Note

Be sure to hand over these instructions to the customer after installation.

2 COMPLETION



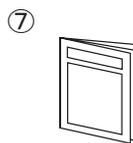
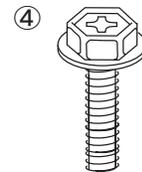
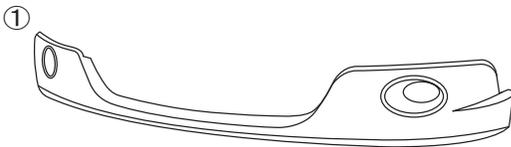
3 PARTS



CAUTION

Before installation, make sure that the kit includes all the parts mentioned in the following parts table and that they are free from any dirt, scratch, and damage.

NO.	Part name	Q'ty	NO.	Part name	Q'ty
①	Front Air Dam Skirt	1	⑤	Speed nut M5	4
②	Nut M6	14	⑥	Tapping screw M5 x 20	4
③	Bolt M6 x 16	6	⑦	Installation instructions	1
④	Bolt M6 x 20	2			

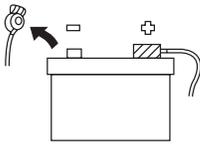
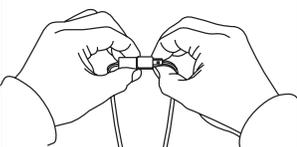
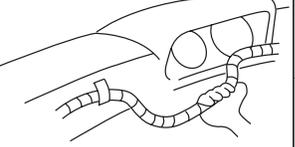
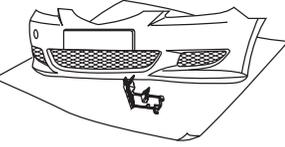
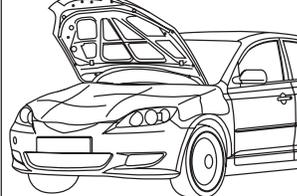
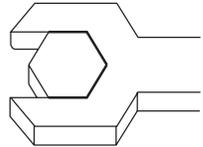


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CHECK ITEMS BEFORE INSTALLATION

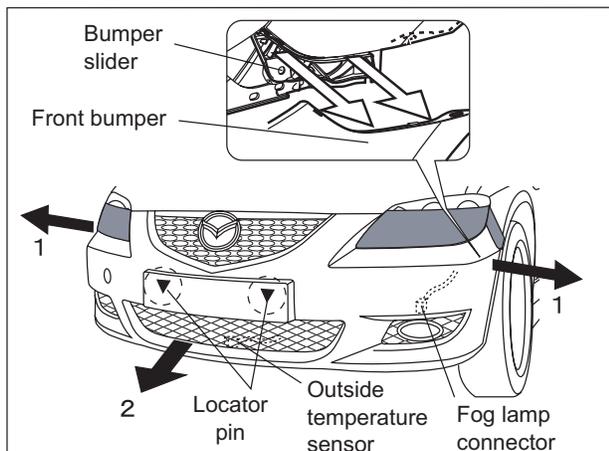
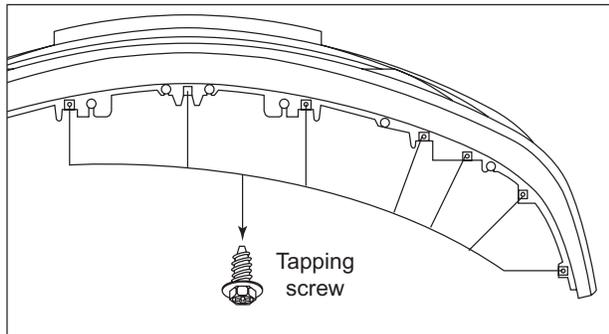
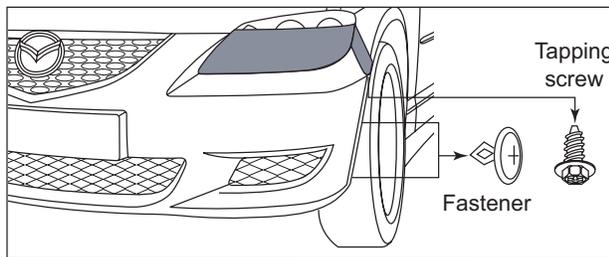
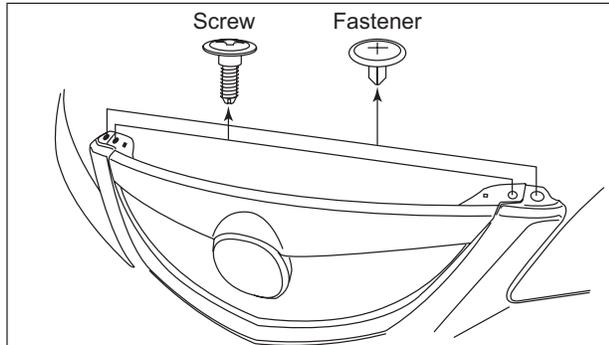
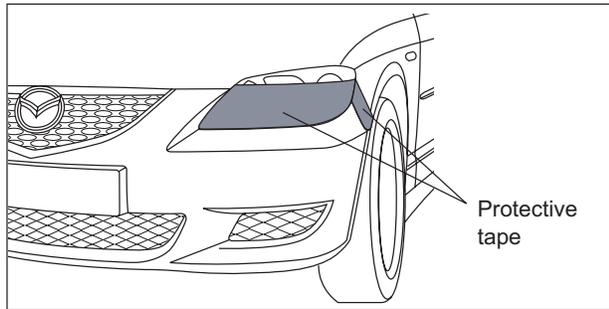
- Tools required (Be sure to prepare the following tools before starting the work.)
 - Phillips screwdriver, clip remover, gimlet or pushpin, file, and scissors
 - Electric drills (drill $\phi 4$, $\phi 6$, $\phi 8$, and $\phi 10$), socket wrench, and spanner (10 mm)
 - IPA (isopropyl alcohol) or white gasoline, gummed tape, etc.
 - Soft cloth (clean), protective sheet, and protective tape
 - Torque wrench (applicable range: 1.0 to 9.8 N·m)


CAUTION

<p>When performing the work, disconnect the negative terminal of the battery beforehand.</p>	<p>Disconnect or connect the connector securely by holding the connector body.</p>	<p>Do not pull out the harness with excessive force.</p>	<p>Place removed parts and kit parts on a protective sheet to prevent scratches.</p>
			
<p>Install or remove parts by using a mat or the like.</p>	<p>When installing parts by using a two-sided adhesive tape, remove dirt on the sticking surface beforehand.</p>	<p>Conduct the work securely by using a tool fit for the purpose and size.</p>	
			

Notes

- Refer to the applicable Workshop Manual when performing removal and installation of vehicle parts.
- Put on the side brake securely so that the vehicle may not be moved, and use a buffer stop.



Front bumper removal

Note

- The procedure for removing the bumper of one side may be described. Perform the same operations for the opposite side.

**CAUTION**

- The bumper removal work should be performed by two workers to prevent the part from being damaged and scratched.

1. Open the bonnet and disconnect the negative cable of the battery.
2. Paste the protective tape to avoid giving damage to the vehicle.
3. Remove the screws (2 pieces) and the fasteners (2 pieces) at the top of the grill.

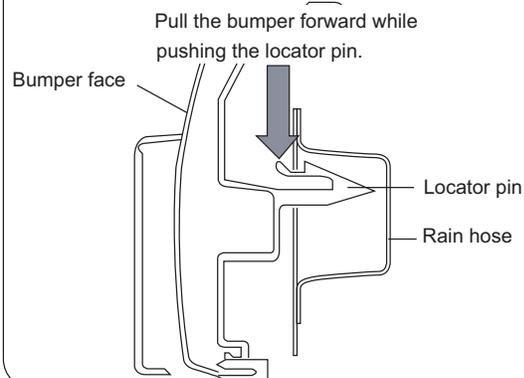
**CAUTION**

- The removed vehicle parts are used again when they are reinstalled later. Take care not to damage or miss them, and keep them in a way that permits grasping where to install them.

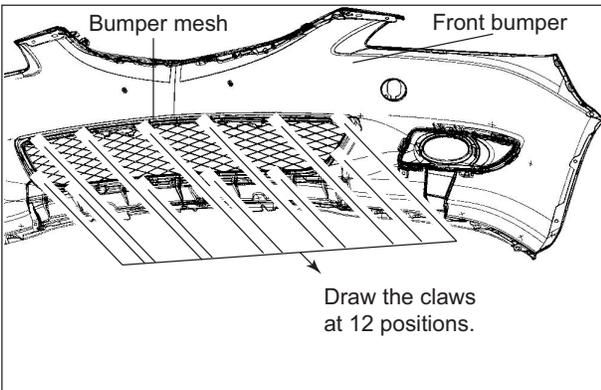
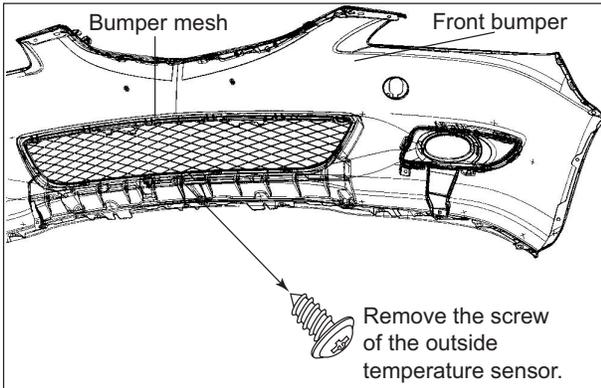
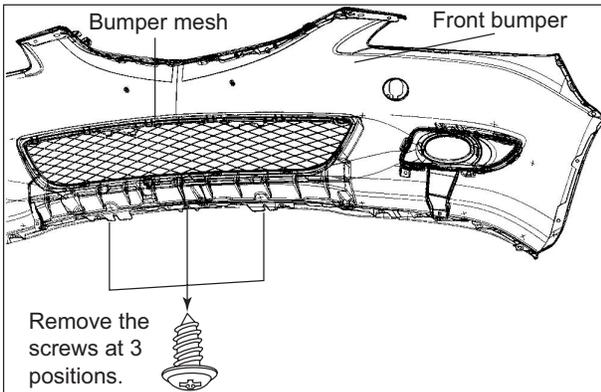
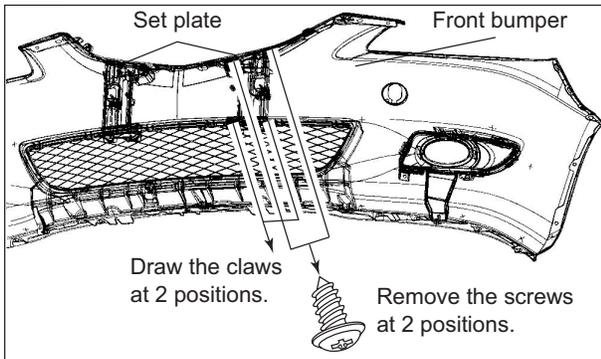
4. Remove the tapping screw (one position each on the left and right sides) and the fasteners (2 positions each on the left and right sides) of the wheel arch.
5. Remove the tapping screws (11 positions in all) on the bottom surface of the front bumper.
6. Remove the front bumper from the claws (2 positions on the left and right side) of the bumper slider by pulling it out in the direction of ①.
7. Remove the locator pins and remove the front bumper by pulling it out in the direction of ②.
8. Disconnect the connector of the outside temperature sensor.
9. For a vehicle with fog lamps, disconnect the fog lamp connectors.

**CAUTION**

- Pull out the bumper forward while pushing the locator pin. (Do not mind if the locator pin is damaged.)



INSTALLATION PROCEDURE



Drilling on the front bumper

1. Spread the protective sheet under the front bumper.
2. Remove the set plate at the back of the front bumper by pulling out the screws at 2 positions and the claws at 2 positions. (One position each on the left and right sides)



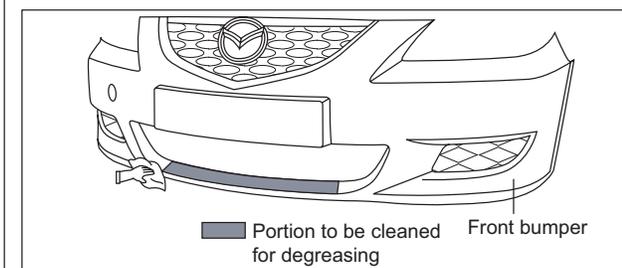
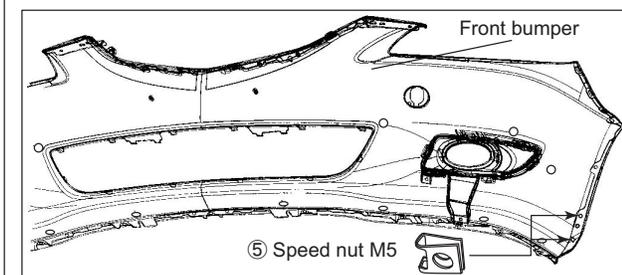
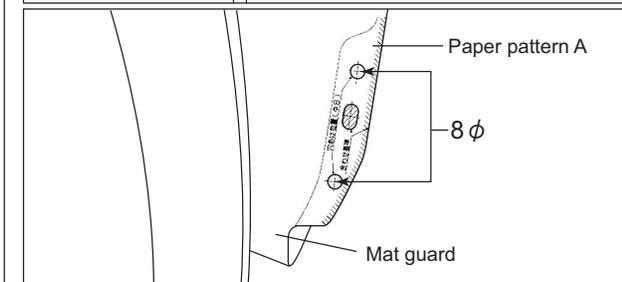
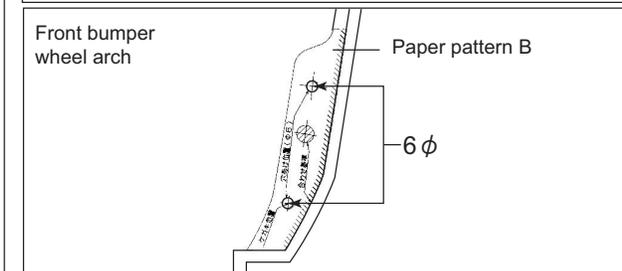
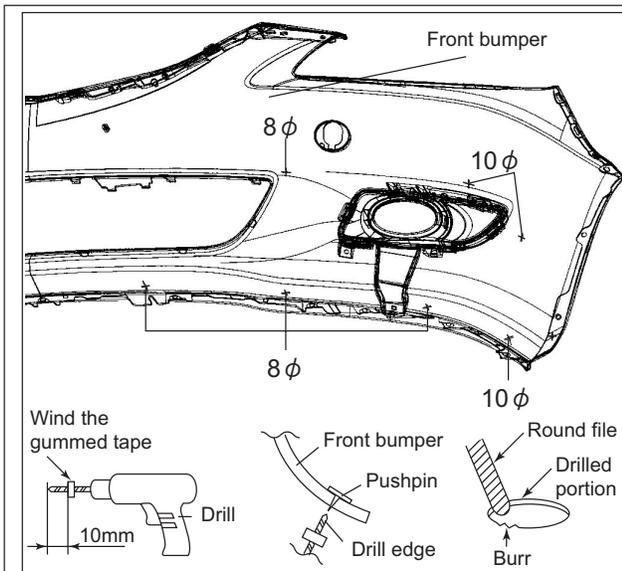
CAUTION

- The removed vehicle parts are used again when they are reinstalled later. Take care not to damage or miss them, and keep them in a way that permits grasping where to install them.

3. Remove the bottom surface screws at 3 positions that fix the bumper mesh at the back of the front bumper.

4. Remove the screw (one position) of the outside temperature sensor.

5. Remove the bumper mesh at the back of the front bumper by removing the claws (12 positions).



- Put a mark in the center of the marking-off line at the back of the front bumper with a file or pushpin and expand the holes step by step with a 4 φ to 8 φ drill (4 positions each on the left and right sides) and with a 4 φ to 10 φ drill (3 positions each on the left and right sides).

CAUTION
- Take care not to cause the hole to get out of the center of the marking-off.

WARNING
- Take extreme care not to get hurt when handling an edged tool such as a drill.
- Be sure to wind the gummed tape around the drill edge to prevent the vehicle from being damaged or the drill edge from piercing.

- Remove burrs on the drilled portion with a file.

CAUTION
- When removing burrs, take care not to enlarge the specified hole diameter. This may cause the bolt to get out of place.

- Cut off the paper patten B carefully from the final page and apply it to the wheel arch of the front bumper. Put a mark at the drilling position with a file or pushpin and expand the holes step by step with a 4 φ to 6 φ drill. (2 positions each on the left and right sides)

CAUTION
- Take care not to cause the hole to get out of the center of the drilling position.

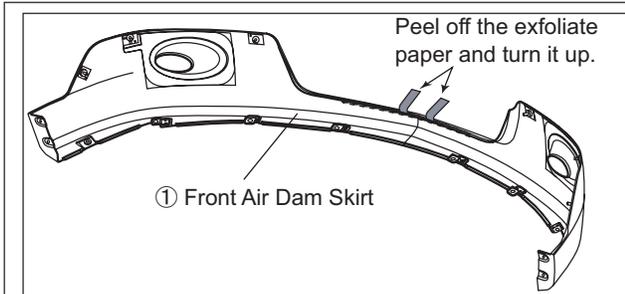
Cutting the matguard

- Cut off the paper patten A carefully from the final page and apply it to the wheel arch of the front bumper. Put a mark at the drilling position with a file or pushpin and expand the holes step by step with a 4 φ to 8 φ drill. (2 positions each on the left and right sides)

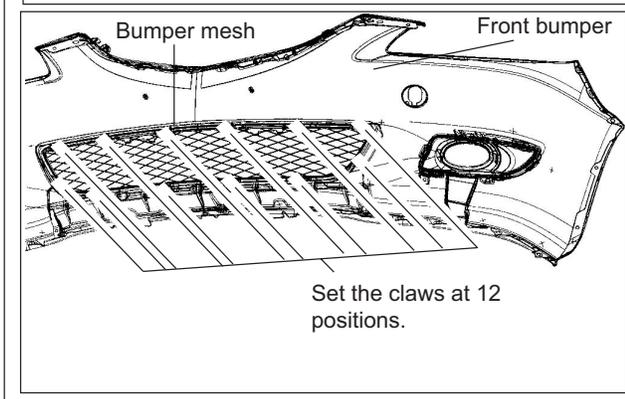
CAUTION
- Take care not to damage the vehicle with a drill when drilling the mat guard.

Installing the front air dam skirt

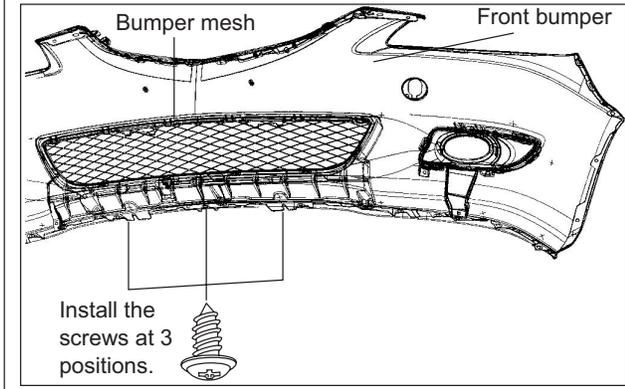
- Insert the speed nuts M5 ⑤ (2 positions each on the left and right sides) into the holes made in step 6 on page 5.
- Wipe off dirt or oil at the position of the front bumper where the two-sided adhesive tape is to be pasted, with IPA (isopropyl alcohol).



3. Peel off the exfoliate paper of the two-sides adhesive tape about 30 mm at the back of the Front Air Dam Skirt ① and turn it up. (2 positions in the center)



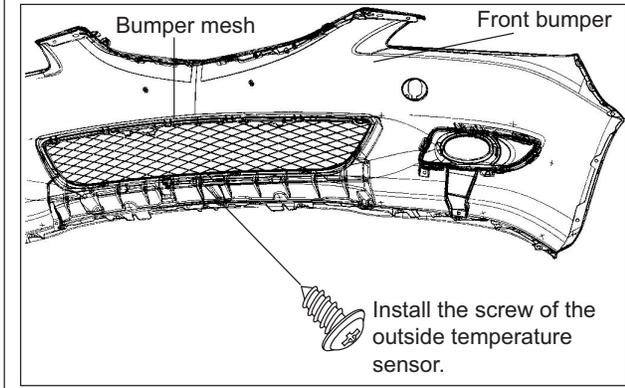
4. Install the claws at 12 positions and then install the bumper mesh at the back of the front bumper.



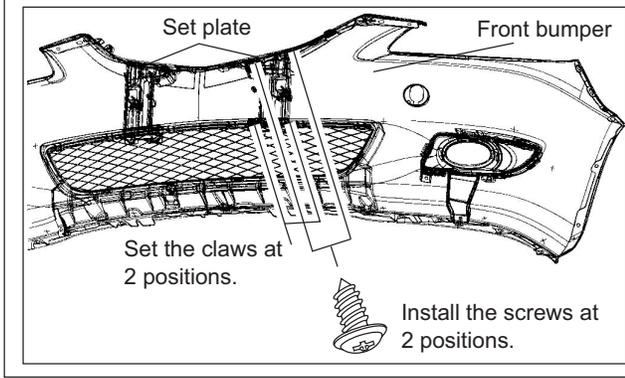
5. Install the bottom surface screws at 3 positions that are used to fix the bumper mesh at the back of the front bumper.
Tightening torque
Bottom surface screw of the bumper: 0.3 to 1.5N·m

! CAUTION

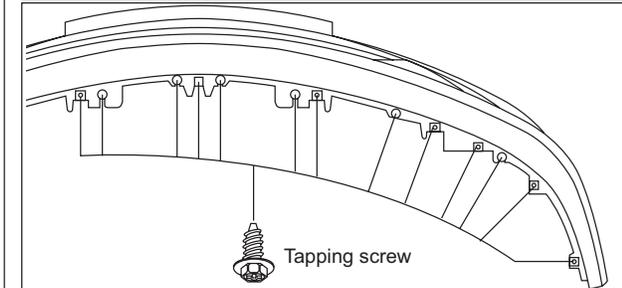
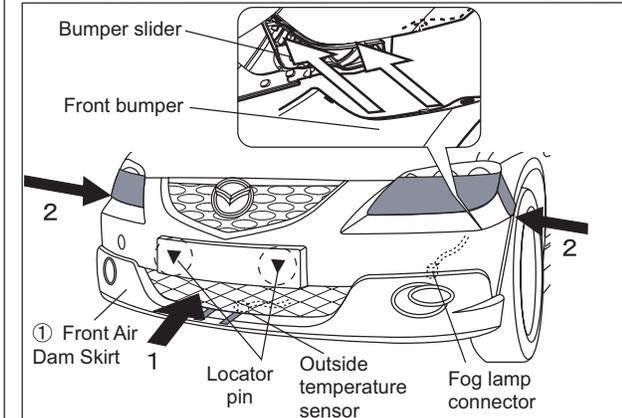
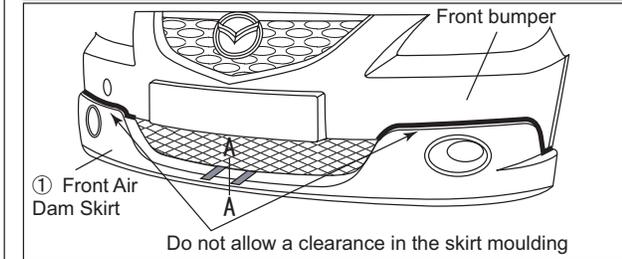
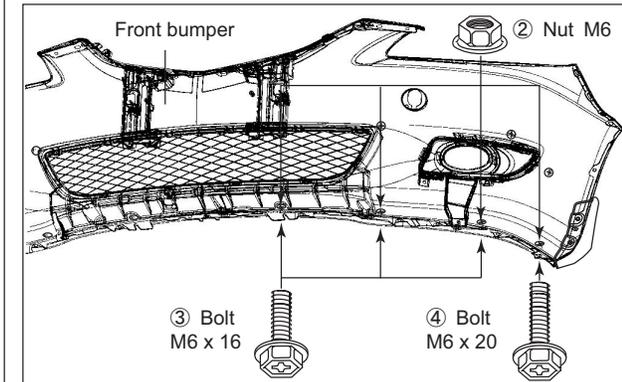
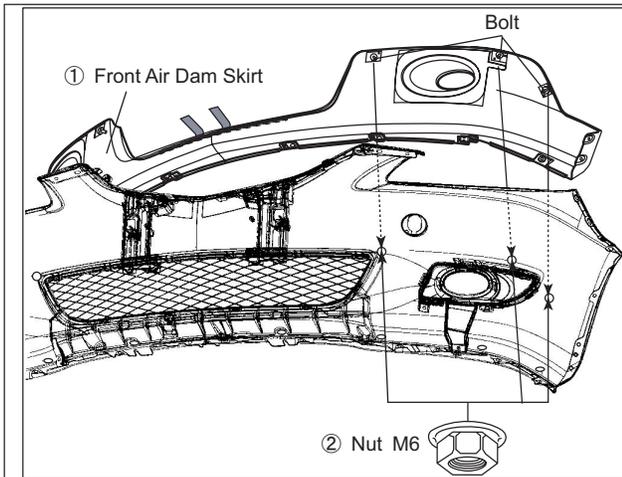
- Tightening an air tool or the like with an impact wrench will deform or damage the Front Air Dam Skirt body and the bumper installation surface, resulting in a fitting fault or falling-off. Do not use an impact wrench such as an air tool.
- Perform tightening securely with a torque wrench. Tightening with a non-specified torque may cause a fitting fault, damage, or falling-off. Take extreme care about tightening.



6. Install the screw of the outside temperature sensor at one position.
Tightening torque
Screw: 0.3 to 1.5N·m



7. Install the set plate at the back of the front bumper with the screws at 2 positions and the claws at 2 positions. (One position each on the left and right sides)
Tightening torque
Screw: 0.3 to 1.5N·m



8. Pass the bolt at the back of the Front Air Dam Skirt through the front bumper hole and fix it temporarily with a nut M6 (2) (3 positions each on the left and right side).
9. Fix the bottom surface of the Front Air Dam Skirt temporarily with bolts M6 x 16 (3) and nuts M6 (2) (3 positions each on the left and right sides) and with bolts M6 x 20 (4) and nuts M6 (2) (one position each on the left and right sides).

CAUTION

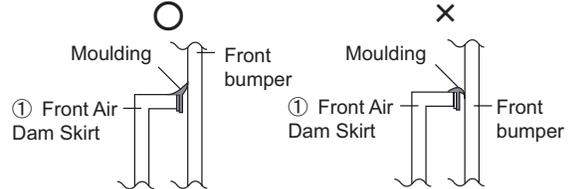
- There are two types of bolt length. Take care not to make a mistake about the applicable position.

10. Finally tighten the nuts and bolts that were temporarily fixed while making a positional adjustment so as not to allow any clearance between the moulding of the Front Air Dam Bumper (1) and the front bumper.

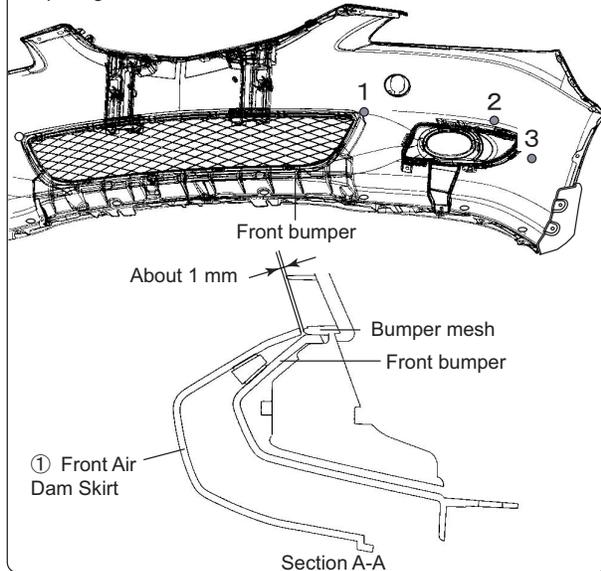
Tightening torque
 Bolts (3) and (4): 2.0 to 2.9N·m
 Nut (2): 2.0 to 2.9N·m

CAUTION

- Take care not to cause the moulding to be rolled in.

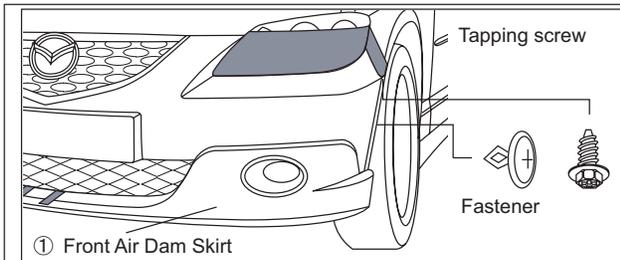


- Regarding the nuts (2) in the upper part of the Front Air Dam Skirt (1), first tighten the central side finally, and then perform tightening in sequence outward from the central side while pulling the Front Air Dam Skirt (1) outward.



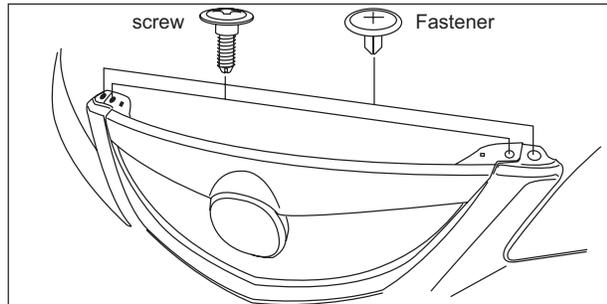
11. For a vehicle with fog lamps, install the fog lamp connectors.
12. Install the outside temperature sensor connector.
13. Set the locator pin and push it in the direction of (1). Then, install the front bumper.
14. Push it in the direction of (2) and set the claws (2 positions on the left and right sides) of the bumper slider on the vehicle.
15. Install the tapping screws (11 position in all) on the bottom surface of the front bumper.

Tightening torque
 Tapping screw on the bottom surface: 1.0 to 2.0N·m



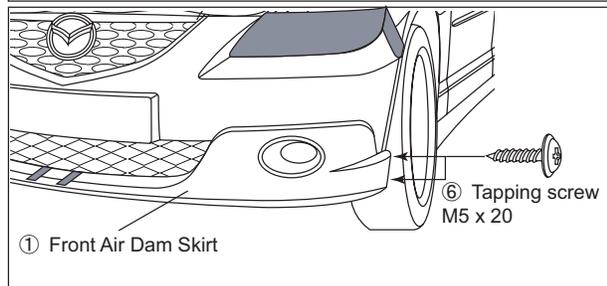
16. Install the tapping screw (one position each on the left and right sides) and fastener (one position each on the left and right sides) of the wheel arch.

Tightening torque
Tapping screw: 2.0 to 2.9N·m



17. Reinstall the screws (2 pieces) and fasteners (2 pieces) in the upper part of the grill.

Tightening torque
Screw: 6.9 to 9.8N·m

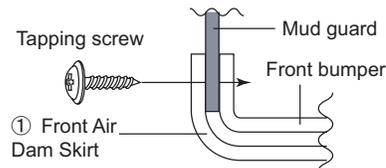


18. Tighten the wheel arch of the Front Air Dam Skirt ① finally with tapping screws M5 x 20 ⑥ (2 positions each on the left and right sides).

Tightening torque
Screw: 1.0 to 1.5N·m

! CAUTION

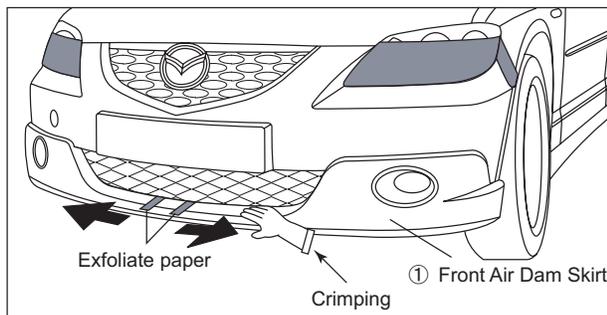
- Insert the mud guard between the front bumper and the Front Air Dam Skirt ①.



19. Pull the exfoliate paper of the two-sided adhesive tape outward from the center and crimp the two-sided adhesive tape completely.

! CAUTION

- Pull out the exfoliate paper so as not to tear it.
- When performing the work below 15°C (ambient temperature), warm the pasting surface and the two-sided adhesive tape with a dryer. However, take it into consideration that they may be deformed by heating at a high temperature (over 50°C).
- If the product is peeled off after it is pasted, the bonding power will be reduced. Do not peel it off after crimping.
- After the product is pasted, do not wash the vehicle within 24 hours.



20. Peel off the protective tape.
21. Return the negative cable of the battery to the original status.
22. Close the bonnet.

Check if each portion does not have any play. With this, the installation work is completed.

To the customer

! CAUTION

- If a foot is put on the aero parts when the vehicle stops, it may invite danger.
- When running on a road with large level differences, slow down the vehicle speed. Otherwise, the installation parts may be damaged.

[For installation shop]

Installation Inspection Sheet

**MAZDA 3
(Sedan)**

Front Air Dam Skirt

BN8PV4900F (for vehicles without fog lamps)

BN8RV4900F (for vehicles with fog lamps)

A. Reinstallation of vehicle parts

Reinstall parts by reversing the procedure for "vehicle parts removal".



CAUTION

Before reinstalling vehicle parts, check them for dirt.
If any of them is dirty, perform cleaning.

B. Inspection items after completion of the work

- Perform inspection for the installed parts and the reinstalled parts that were removed according to the following items after reinstallation.

Inspection part	Inspection item (marked ○)			
	Clearance, fit	Scratch, dirt, tape residual	Tightening, engagement	Operation check
Front Air Dam Skirt	○	○	○	
Front bumper	○	○	○	
Front fender		○		
Fog lamp (only for vehicles with fog lamps)			○	○
Bumper mesh	○		○	

Installation inspection for Front Air Dam Skirt (Sedan)

Date					
Car body No.					
Approved by		Checked by		Person in charge	

* The term of validity for this sheet: 3 months