



STI FRONT UNDER SPOILER

INSTALLATION MANUAL

Genuine part number: E2410CC000

Applicable model: BRZ (ZD), Type A and later models

This manual describes how to install and handle the STI front under spoiler.

Before installing the part, please be sure to read this manual for proper installation.

Precautions

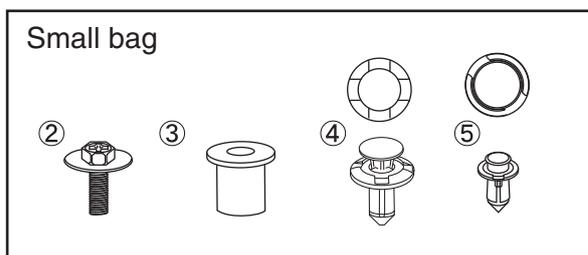
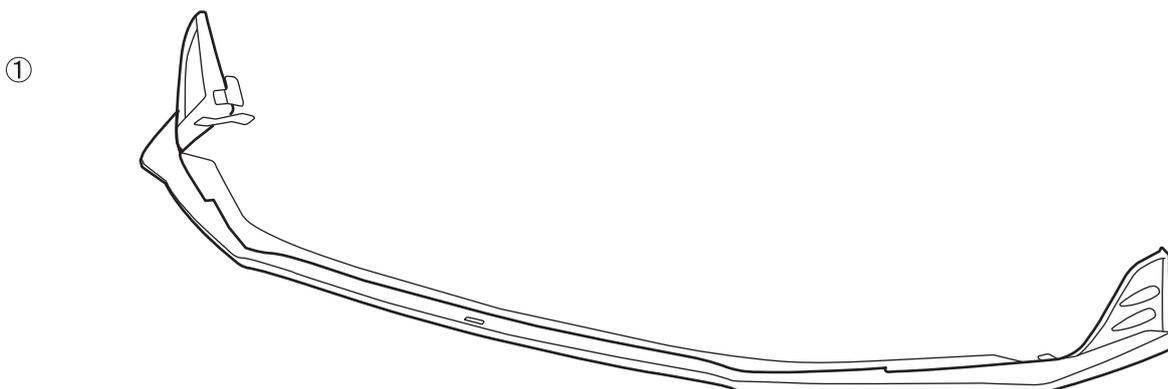
1. Be sure to observe the content in **CAUTION** for installation described in the main text during the work. Neglecting it may cause dropping of or peeling-off on the part, and also may prevent the vehicle from functioning.
2. Before the installation, turn the ignition switch to OFF, and apply the parking brake without fail.
3. Do not use thinner or the like, otherwise the surface of the STI front under spoiler may be corroded. Also, keep the spoiler away from fire, otherwise it may be deformed.
4. When the ambient temperature is 15°C or lower, warm up all strips of the double-sided tape and around the installation portion of the STI front under spoiler to approximately 25 to 40°C using a dryer or infrared lamp. Local warming may deform the part.
Do not use an industrial dryer.
5. Firmly press the double-sided tape to adhere well.
If it is reattached, the adhesive performance will extremely decrease. To avoid redoing, position the tape correctly before attachment.
6. The adhesive strength of the double-sided tape increases gradually after the attachment.
Do not wash the vehicle within 24 hours after attaching the part.
When washing the vehicle or applying wax to the vehicle is required on the day when the part is attached, leave the vehicle for at least 1 hour, and seal the double-sided tape attached portions with tape or the like to prevent water intrusion.
In addition, be careful not to apply an excessive force to the front under spoiler.
(Do not perform a high-pressure or automatic car wash on the day when the part is installed.)
7. When performing an air blow after the installation of the part, keep the nozzle 300 mm or more away from the part. If it is too close, the surface of the part may be peeled off.
8. Perform degreasing so as not to allow any solvent to accumulate in a gap of a component. A liquid pool may adversely affect the coated surfaces, rubber materials, and the like. Use a soft cloth to absorb the solvent and wipe the necessary portion. Then, wipe off completely with a dry cloth.

Tools to be used

Clip remover, Drill bits (3 mm, 6 mm, 9.5 mm, 10 mm), Hole saw (18 mm), Torque wrench, Phillips screwdriver, Flathead screwdriver, Ratchet wrench (8 mm), Awl, Gloves, Waste cloth
Degreaser (Recommended: Nonane), Masking tape, Sandpaper, Safety goggles,
Fabric adhesive tape

Components

No.	Part name	Qty.
①	Front under spoiler	1
②	Hexagon-head bolt	10
③	Well nut	10
④	Clip A (ø10)	2
⑤	Clip B (ø8)	2
⑥	Cushion	2
⑦	Template (LH and RH as a set)	1
⑧	Instruction Manual	1



⑥ ⑦ ⑧



Template



Completion image

*NOTICE

- Before the work, clean the lower and side surfaces of the front bumper.
- Perform the work in a room at a temperature of **15°C** or higher.
(When the temperature is lower than **15°C**, the double-sided tape will not adhere sufficiently.)

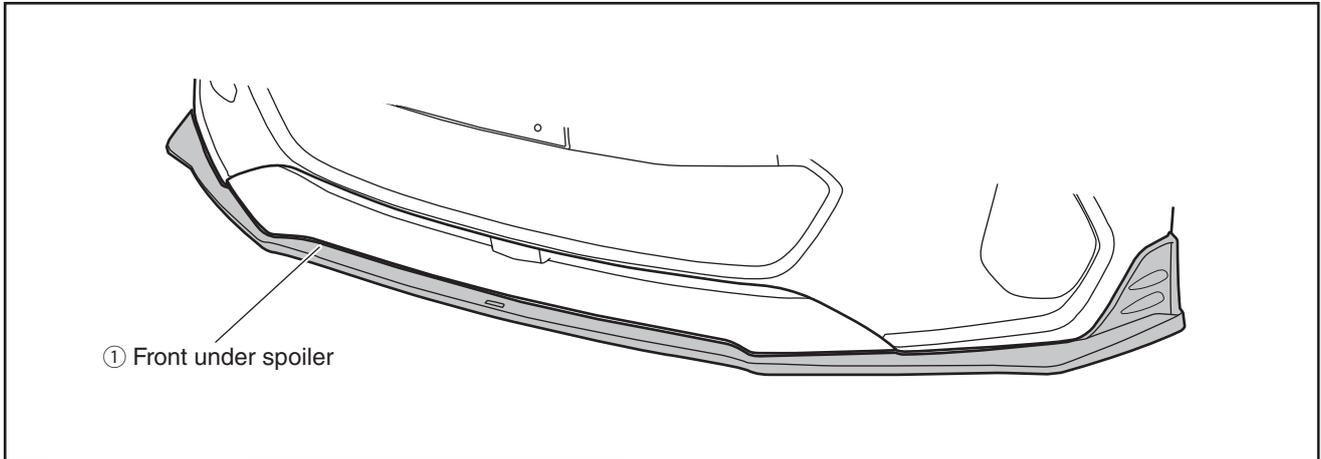
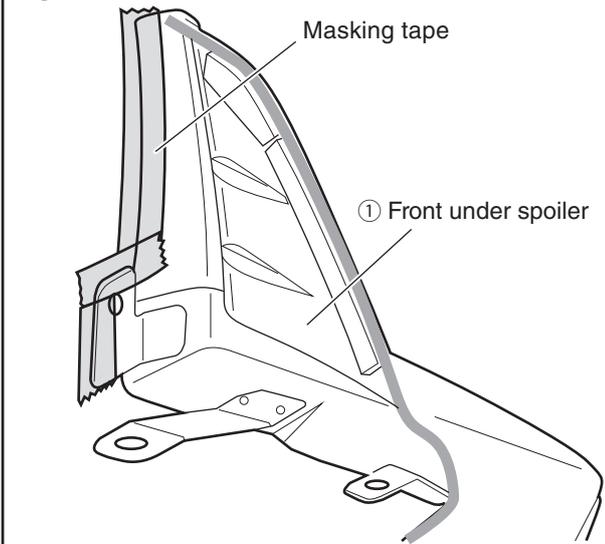


Fig. 1

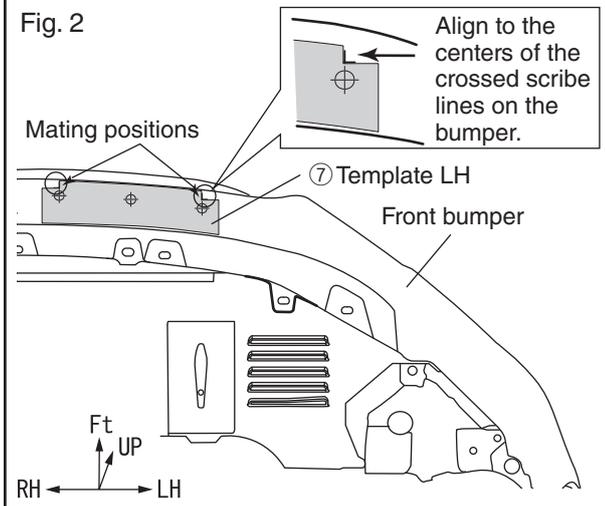


Installation procedure

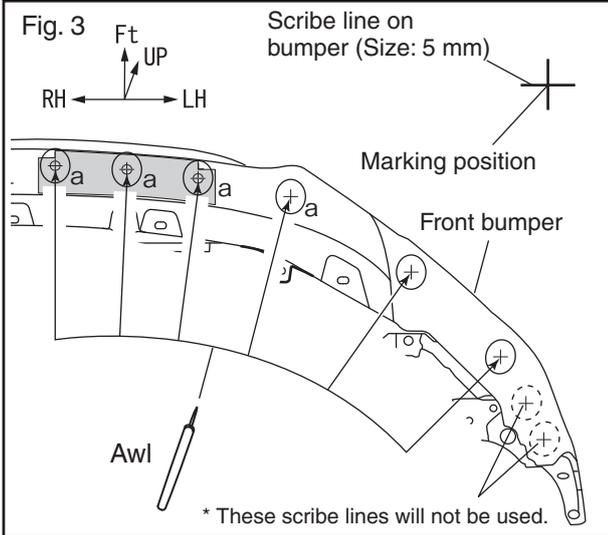
1. Preparation for installation

- (1) To prevent scratches during installation, apply pieces of masking tape to the rear end of the front under spoiler.
(1 location on each side, 2 locations in total)

Fig. 2

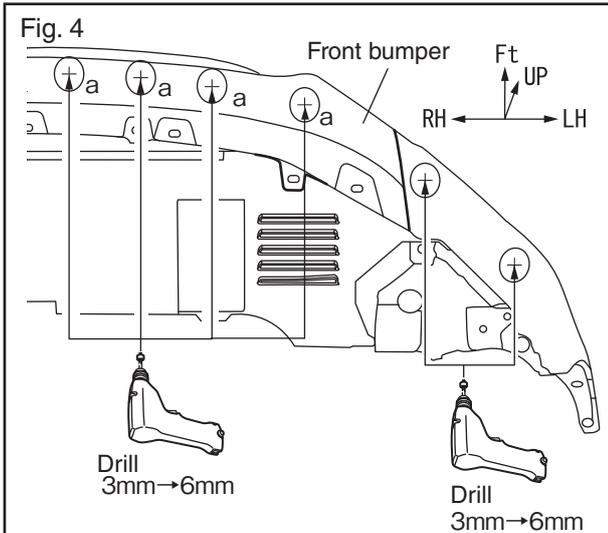


- (2) Referring to the service manual, remove the front bumper from the vehicle. To prevent scratches, cover each side of the bumper.
- (3) Align the template ⑦ to the centers of the crossed scribe lines on the front bumper as shown in the figure on the left. (Fig. 2)
(1 location on each side, 2 locations in total)



(4) Mark crossed scribe lines with an awl at the marking positions on the template ⑦ and at the positions on the front bumper shown in the figure. (Fig. 3)
(6 location on each side, 12 locations in total)

(5) Remove the template ⑦.



(6) Apply a drill to each center of the positions marked in the figure on the left to make holes in the order of 3 mm and 6 mm. (Fig. 4)
(3 mm and 6 mm: 6 locations each on RH and LH, 12 locations in total)

CAUTION Use the drill bits with the correct diameter when making holes.

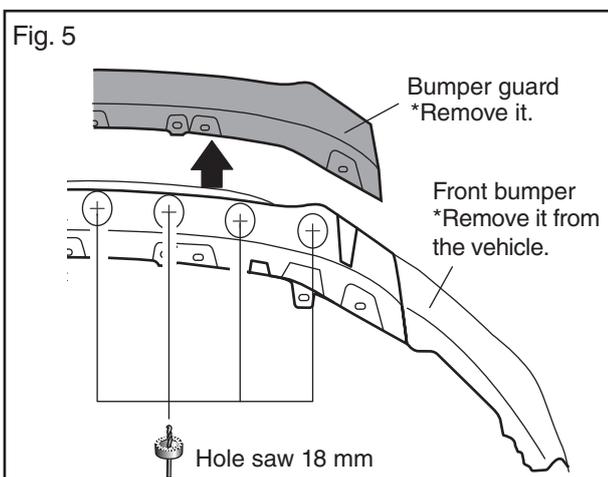
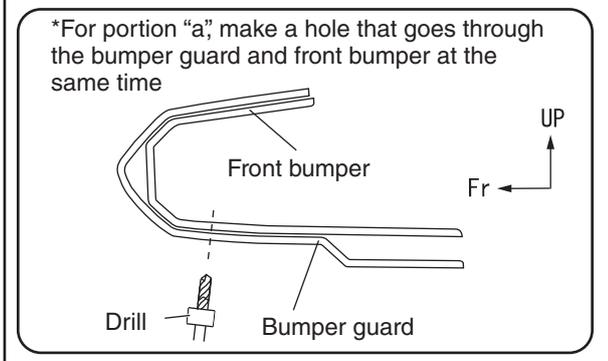
CAUTION Before the work, make a stopper with fabric adhesive tape to a position approximately 5 mm away from the tip of the drill bit to prevent interference caused by the drill bit.

5 mm

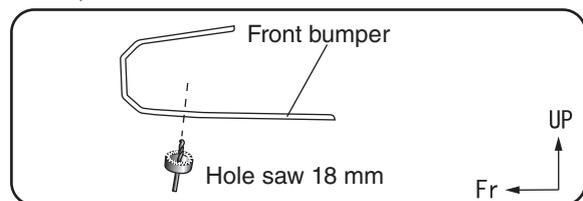
Drill bit

Fabric adhesive tape

CAUTION When making holes, wear safety goggles.

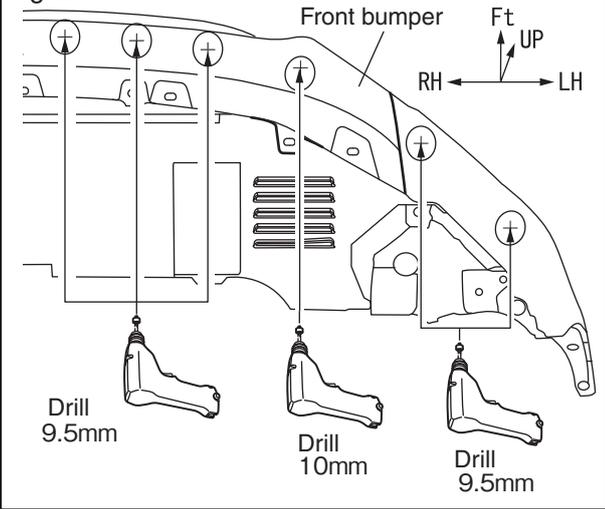


(7) Referring to the service manual, remove the lower energy absorber, front intake cover, and front bumper guard from the front bumper, and apply a hole saw (18 mm) to each center of the positions marked in the Fig. 3 to make holes. (Fig. 5)
(18 mm: 4 locations each on RH and LH, 8 locations in total)



(8) Remove burrs completely using sandpaper or the like. After that, reinstall the front bumper guard, front intake cover, and lower energy absorber to the front bumper.

Fig. 6

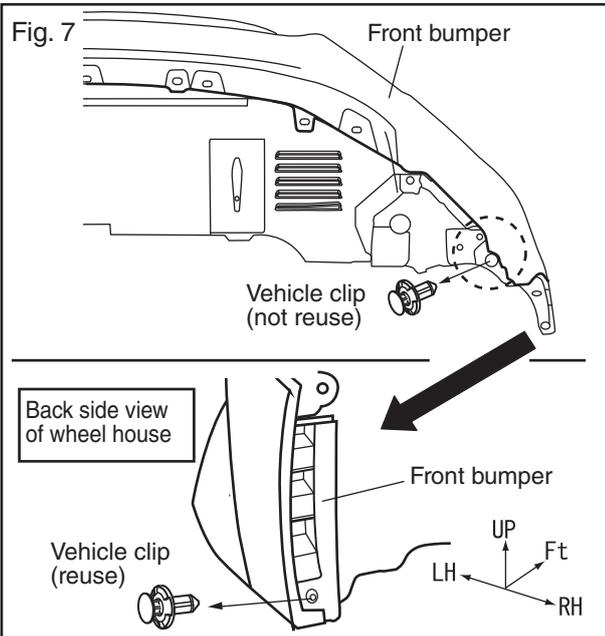


- (9) Apply a drill to each center of the positions marked in the figure to make holes in the order of 9.5 mm and 10 mm. (Fig. 6)
 (9.5 mm: 5 locations each on RH and LH, 10 locations in total)
 (10 mm: 1 location each on RH and LH, 2 locations in total)

CAUTION Use the drill bits with the correct diameter when making holes.

CAUTION Before the work, make a stopper with fabric adhesive tape to a position approximately 5 mm away from the tip of the drill bit to prevent interference caused by the drill bit.

Fig. 7

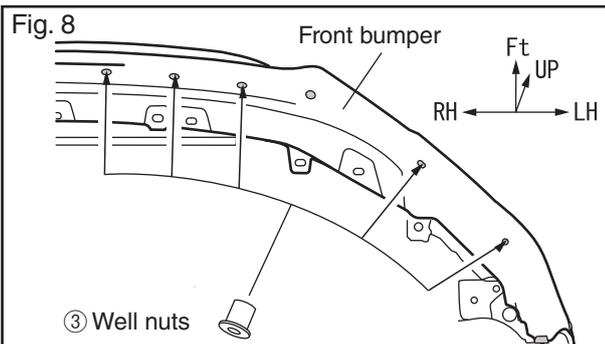


- (10) Remove burrs around the holes completely using sandpaper or the like.
 (11) Referring to the service manual, reinstall the front bumper to the vehicle.
 (12) As shown in the figure on the left, remove the vehicle clips on the front bumper lower surface and front bumper wheel house flange. (Fig. 7)
 (2 locations each on RH and LH, 4 locations in total)

CAUTION Do not use the vehicle clips removed from the lower surface.

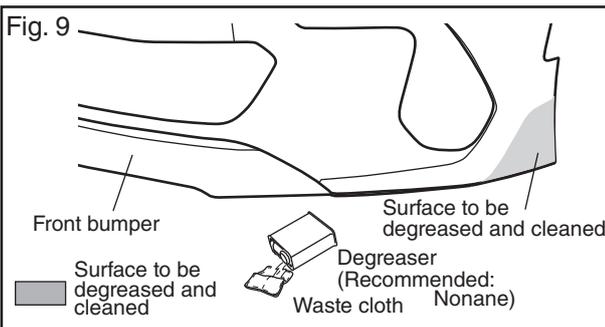
CAUTION The vehicle clips removed from the wheel house flange will be reused.

Fig. 8



- (13) Insert well nuts^③ to the holes (9.5 mm holes) made in Fig. 5. (Fig. 8)
 (5 locations each on RH and LH, 10 locations in total)

Fig. 9

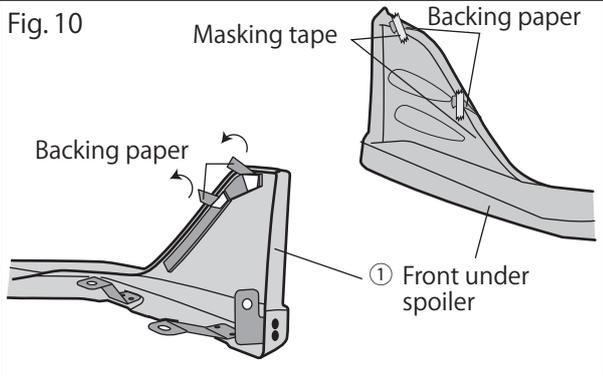


2. Spoiler installation work

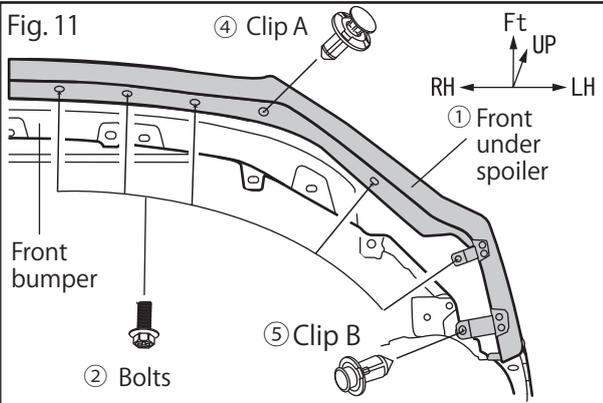
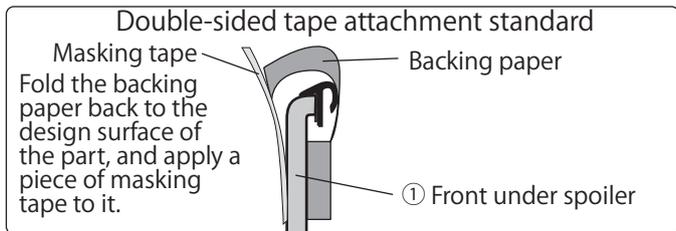
- (1) Degrease the double-sided tape attached portion on the front under spoiler ^① of the front bumper with a waste cloth soaked in a degreaser (recommended: Nonane) as shown in the figure. (Fig. 9)
 (1 location each on RH and LH, 2 locations in total)

***NOTICE**

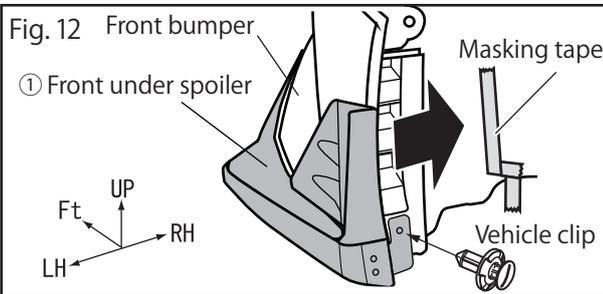
- Be sure to degrease and clean the attachment surface.
- Perform the work in a room at an ambient temperature of 15° C or higher.
- When the temperature is lower than 15° C, warm up the attachment surface and double-sided tape with a heating device or the like. (25 to 5°C as a guide)
- If air enters between the tape and the attachment surface, the adhesive strength will become weak. Be sure to firmly press with a force of 49 N or more.



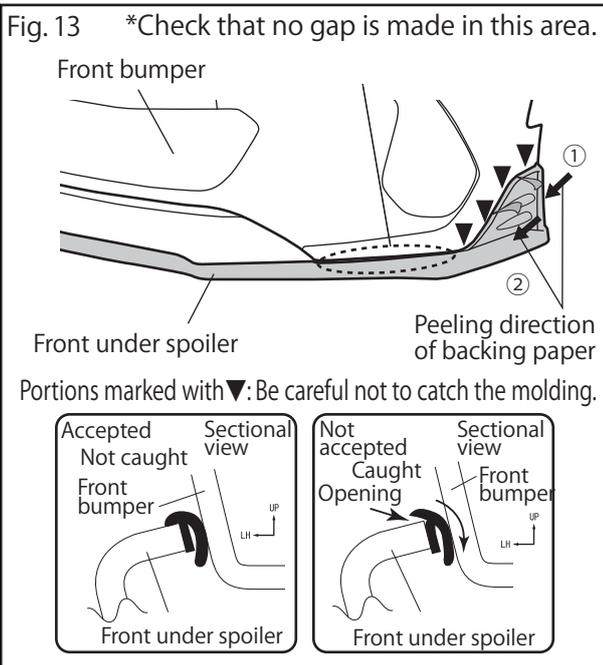
- (2) Peel off some portions of the backing paper from the double-sided tape attached on the front under spoiler ① by approximately 20 mm each as shown in the figure on the left, fold them back, and apply a piece of masking tape to each of them. (Fig. 10)
(2 locations each on RH and LH, 4 locations in total)



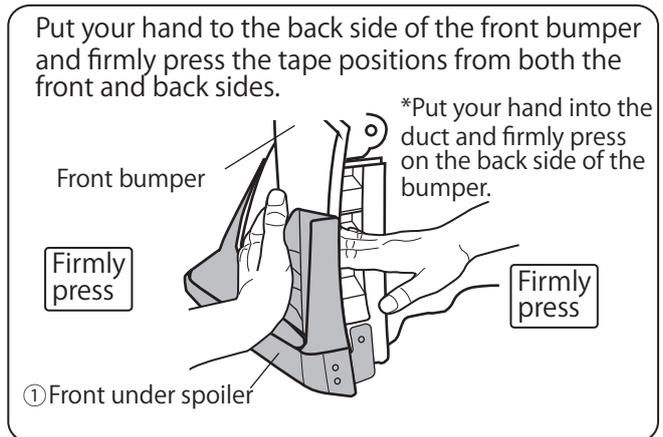
- (3) Fix the front under spoiler ① to the front bumper lower surface with the clip A ④ and clip B ⑤ first and then temporarily fix with bolts ②. (Fig. 11)
(Bolt ②: 5 locations each on RH and LH, 10 locations in total)
(Clip A ④: 1 location each on RH and LH, 2 locations in total)
(Clip B ⑤: 1 location each on RH and LH, 2 locations in total)



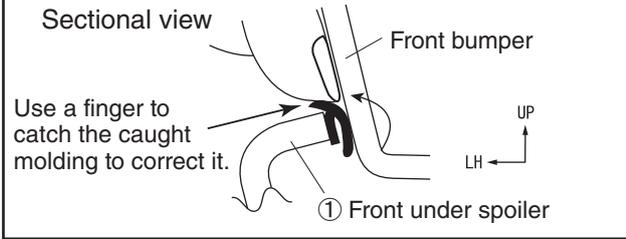
- (4) Peel off the masking tape applied to the rear end of the front under spoiler ①. Pay sufficient attention not to make scratches.
(1 location each on RH and LH, 2 locations in total)
- (5) Fix the front under spoiler ① to the front bumper wheel house flange with the vehicle clip removed in Fig. 7. (Fig. 12)



- (6) While paying attention not to allow the molding of the front under spoiler ① to be caught in the bumper, peel off the backing paper of the double-sided tape inward from the vehicle outer side (in the order of ① → ② in the figure on the left). Then, firmly press the entire tape area with a force of 49 N or more. (Fig. 13)

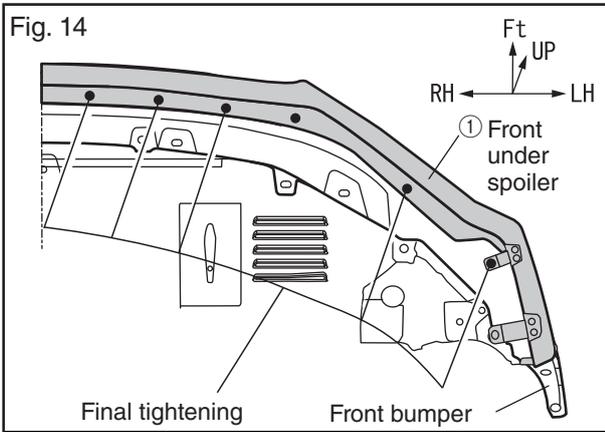


***How to correct when the molding is caught**



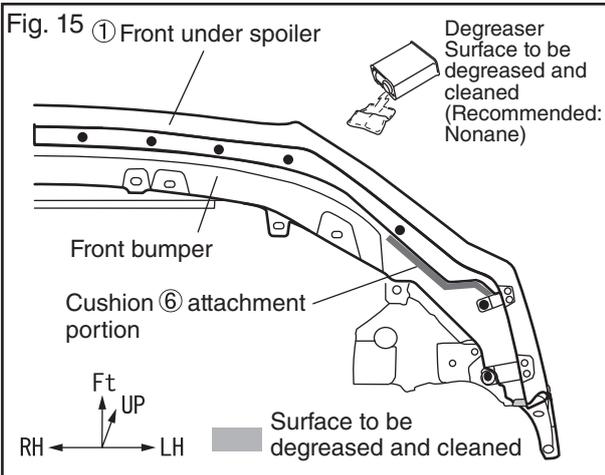
- When the molding is caught, correct the position while paying attention not to scratch the bumper or peel off the double-sided tape.
- The molding can be returned to the correct position by catching the caught molding with finger.

Fig. 14



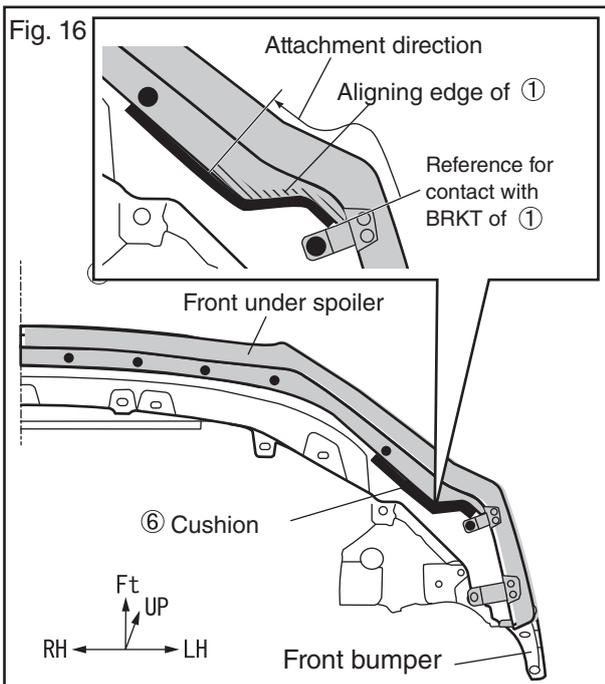
- (7) Finally tighten the bolts ② temporarily fixed in step (3). (Fig. 14)
Tightening torque for reference: 1.0 N·m (0.1 kgf·m)
(5 locations each for RH and LH, 10 locations in total)

Fig. 15



- (8) Degrease the cushion ⑥ attached portion of the front bumper lower surface with a waste cloth soaked in a degreaser (recommended: Nonane) as shown in the figure on the left. (Fig. 15)
(1 location each for RH and LH, 2 locations in total)

Fig. 16



- (9) Attach the cushion ⑥ to the front bumper along the edge of the front under spoiler [1] as shown in the figure on the left. (Fig. 16)

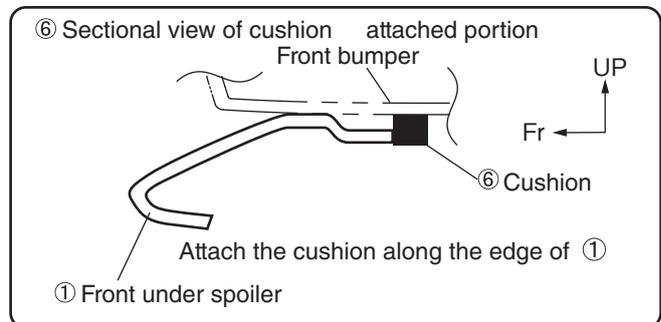
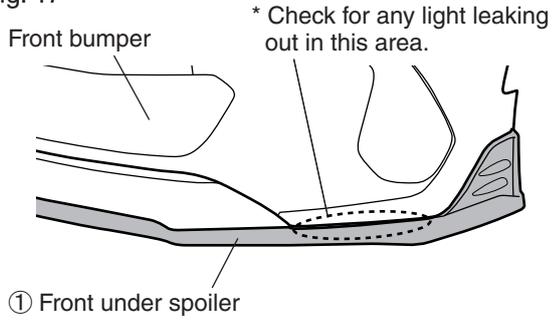


Fig. 17



- (10) Finally check for lifting or tilting of the installation portion, missing of any clip and bolt, and the like. If any, correct it as necessary. Also, check the operation of the side turn signal lamps of the vehicle.
- (11) Check that no light is leaking out from the contact surface between the front under spoiler ① and bumper.
- (12) Check that there is no scratch or dirt on the bumper and the surrounding area of the spoiler.

The installation work has been completed.

Revision history

Δ	Content	Date
Δ0	Newly created	April 14, 2021