



ROOF SPOILER

INSTALLATION MANUAL

This manual describes how to install and handle the roof spoiler. Before installing the part, please be sure to read this manual for proper installation.

⚠ Precautions

1. Be sure to observe the contents in CAUTION for installation described in the main text during the work. Neglecting it may cause coming-off or peeling-off of 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 roof spoiler may be corroded. Also, keep the part 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 roof spoiler to approximately 30 to 50° C using a dryer or infrared lamp. Local warm-up 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 installing the part.
7. When washing the vehicle or applying wax to the vehicle is required on the day when the part is installed, 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.
(Do not perform a high-pressure or automatic car wash on the day when the part is installed.)
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. After installing the part, leave it for 2 to 3 hours, and do not drive the vehicle.

Revision history

Δ	Content	Date
	Newly created	February 2, 2023

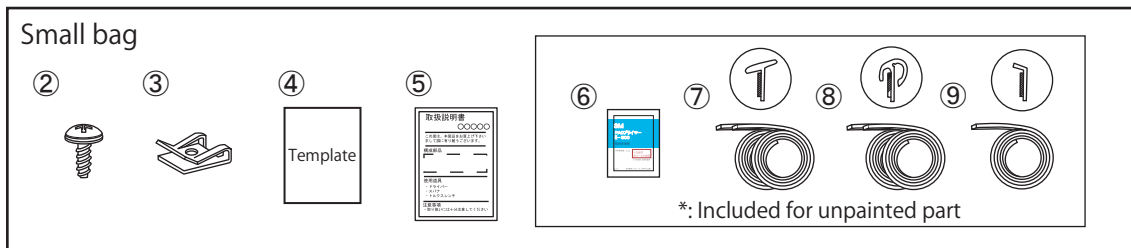
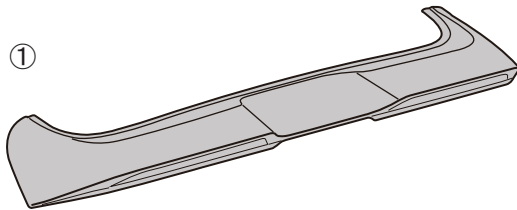
Roof spoiler

Genuine part number: E7217FN020##

Applicable model: CROSS TREK (GU) Type A and later

Components

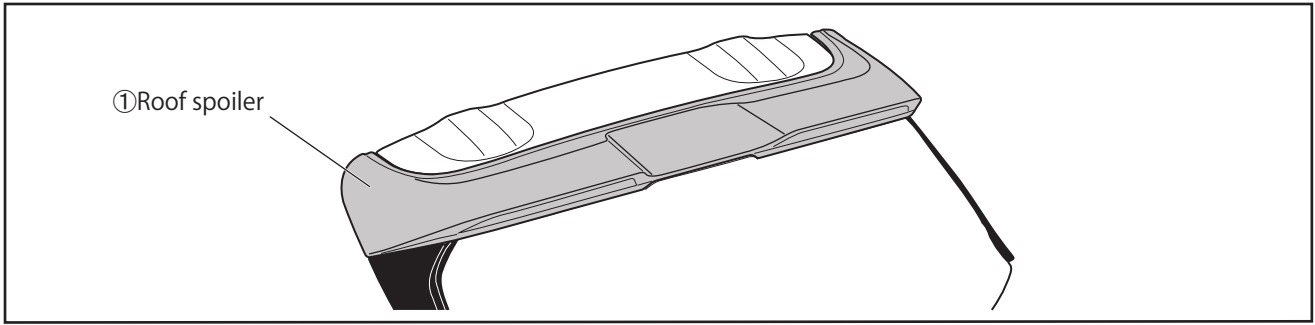
No.	Part name	Qty.
①	Roof spoiler	1
②	Tapping screw	2
③	Speed nut	2
④	Template	1
⑤	Instruction Manual	1
⑥	PAC primer *: Included for unpainted part	1
⑦	Molding (T-shape) *: Included for unpainted part	1 pc each
⑧	Molding (E-shape) *: Included for unpainted part	1 pc each
⑨	Molding (L-shape) *: Included for unpainted part	1



Tools to be used

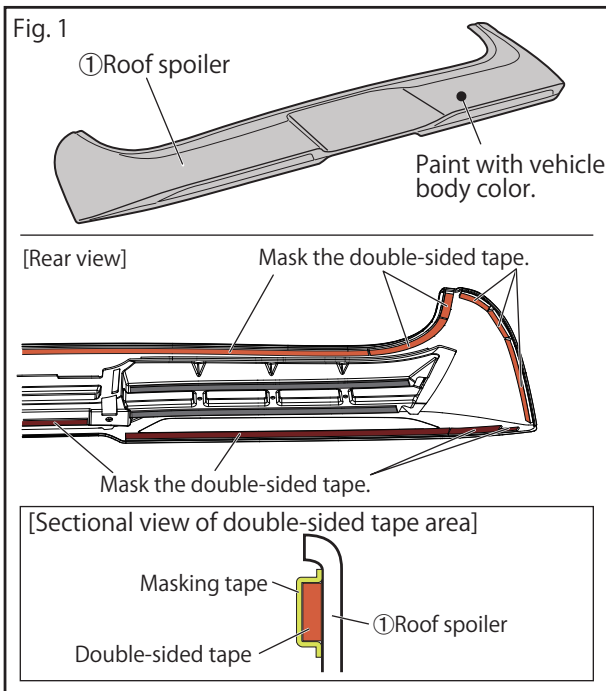
Clip remover, Gloves, Waste cloth, Degreaser (Recommended: Nonane), Awl, Torque wrench, Drill bits (3 mm, 6 mm, 8 mm), Phillips screwdriver, Flathead screwdriver, Ratchet sockets (8mm, 10 mm), Masking tape, File

Completion image



* When the product is already painted, proceed to "Installation procedure".

Painting of unpainted part and installation procedure

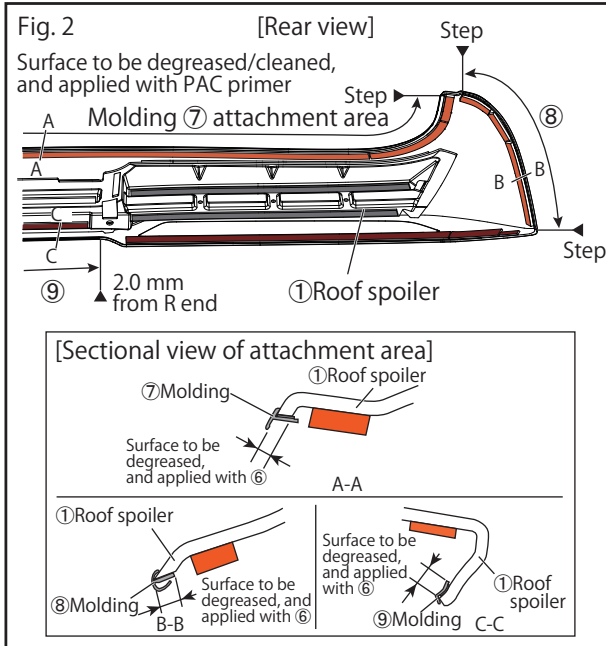


1. Painting

- Paint the roof spoiler ① with the vehicle body color. Mask the double-sided tape area on the backside of the product at that time.

(Fig. 1)

⚠ Caution	After completion of painting, remove the masking.
	At that time, be careful not to peel off the baking paper of the double-sided tape.



2. Attachment of molding

- After degreasing the molding attachment area for the roof spoiler ①, apply the PAC primer ⑥.

(Fig. 2)

⚠ Caution	When applying PAC primer, be careful to avoid overflowing to the painted surface.
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- For the surfaces applied with PAC primer ⑥, attach the Molding (T-shape) ⑦, Molding (E-shape) ⑧, and Molding (L-shape) ⑨. Cut the moldings by referring to the figures so that they can fit to the shape.

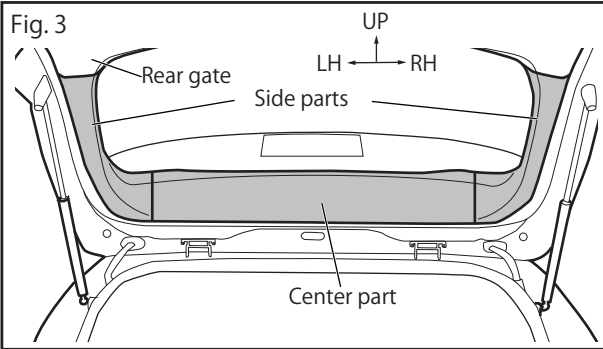
(Fig. 2)

⚠ Caution	The molding (T-shape) ⑦ and molding (E-shape) ⑧ are provided in two colors. Select the applicable molding color according to the paint color and attach them.
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Installation procedure

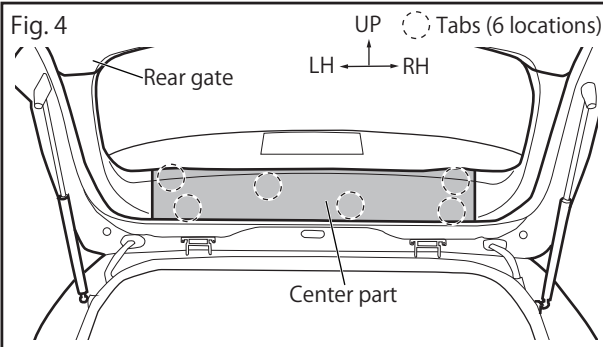
3. Preparation for installation

- (1) Fully open the rear gate to make the center part and side parts inside the back door visible, and remove the ground terminal from the battery sensor. (Fig. 3)



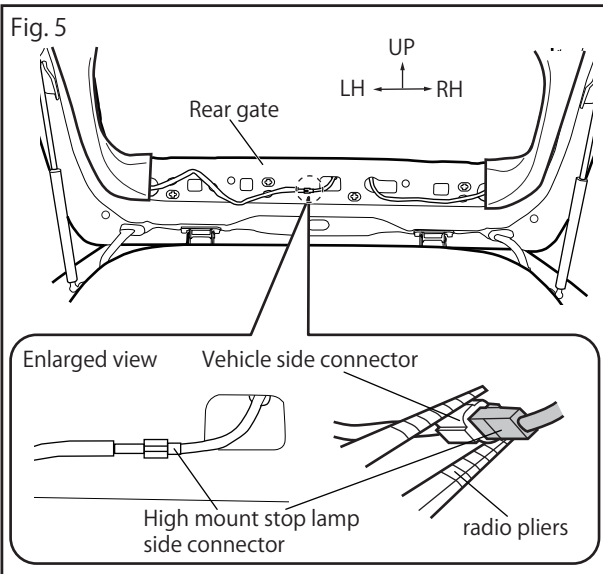
⚠	Note that the back door can no longer be opened if it is closed after the ground terminal is removed.
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⚠	The removed vehicle parts will be reused. Be careful not to damage or lose them.
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- (2) While paying attention to the tabs, remove the center part of the rear gate. (Tab: 6 locations in total) (Fig. 4)

⚠	Note that mounting the vehicle parts will be prevented if any tab is broken.
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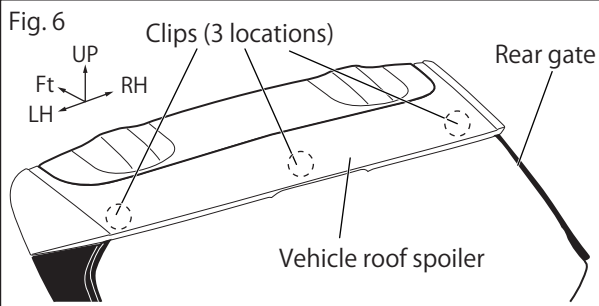


- (3) Disconnect the connector of the high mount stop lamp harness on the rear gate. Wrap masking tape around the tip of radio pliers. Pinch the connector and bend it until the locking claw no longer catches. Disconnect the connector when the locking claw no longer catches.

⚠	Be careful not to damage any tab when removing the vehicle parts.
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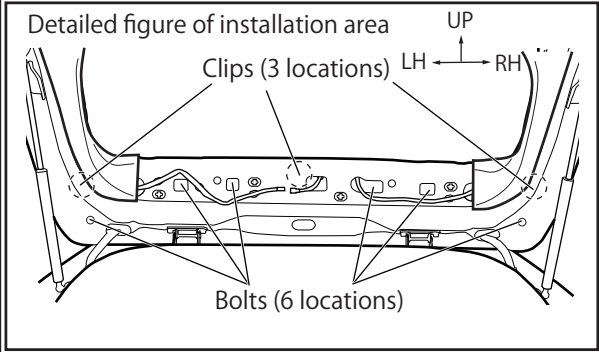
⚠	Be careful not to hurt your hand with the edge of the sheet metal.
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⚠	Please note that if the pinching force of the Radio Pliers is too large, the connector will be difficult to separate.
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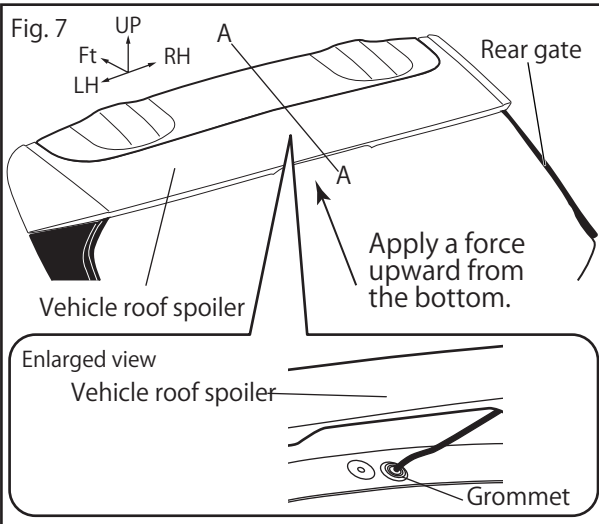


- (4) Remove the bolts of the vehicle roof spoiler from the vehicle, and detach the spoiler while paying attention to the tabs.
- (Clip: 3 locations in total)
(Bolt: 6 locations in total)
(Fig. 6)

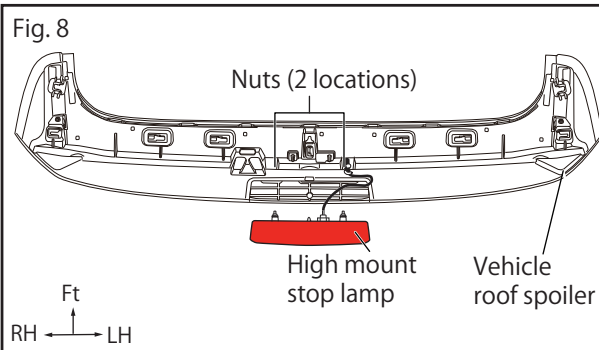
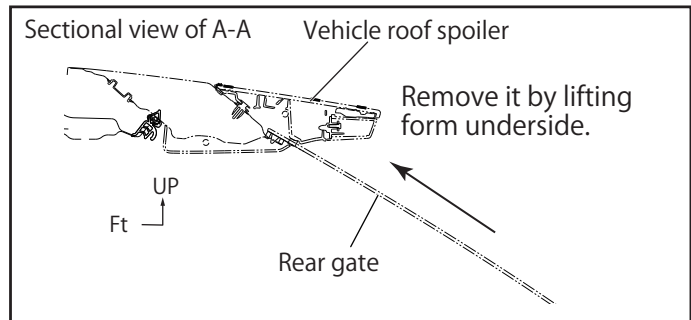
⚠	The removed vehicle parts will be reused. Be careful not to damage or lose them.
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- (5) Remove the vehicle roof spoiler from the rear gate by lifting it from the underside.
Remove Grommet from the rear gate.
- (Fig. 7)

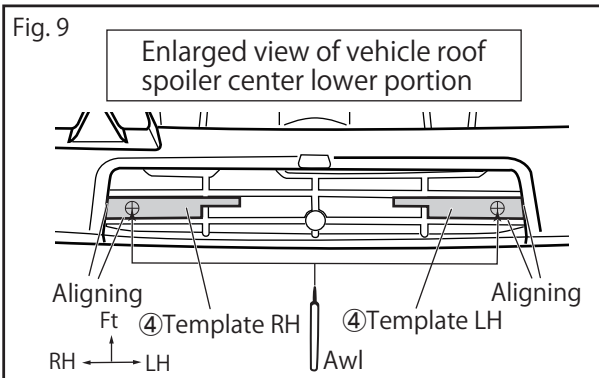


⚠	When removing the vehicle roof spoiler, do not apply a force from the top.
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- (6) Remove the nuts from the vehicle roof spoiler, and remove the high mount stop lamp.
- (Nut: 2 locations in total)
(Fig. 8)

⚠	The removed vehicle parts will be reused. Be careful not to damage or lose them.
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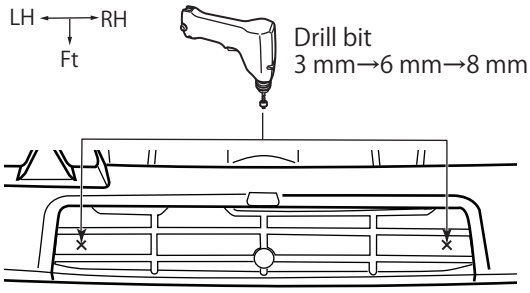


- (7) Attach the templates ④ to the high mount stop lamp attachment portions on the vehicle roof spoiler at the positions shown in the figure on the left, aligning the shape of the ribs around them.
- (Fig. 9)
- (8) Make a mark with an awl or the like at the center of the piercing position on each template ④.
- (Fig. 9)
- (1 location each on RH and LH, 2 locations in total)

⚠	Be careful not to damage the tabs when removing the vehicle parts.
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Fig. 10

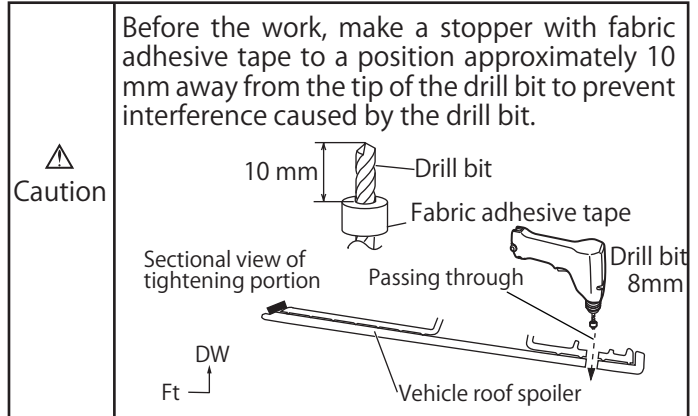
Enlarged view of center lower surface of vehicle roof spoiler



- (9) Remove the templates ④.
 (10) Apply a drill to the center of the position marked in the step (8) to make a hole.
 After making a prepared hole with a 3 mm drill bit and 6 mm drill bit, make a hole with a 8 mm drill bit.
 (Fig. 10)

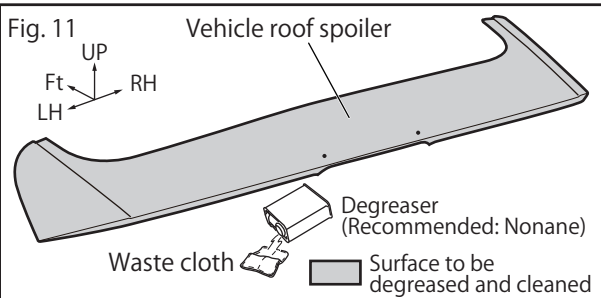
(1 location each on RH and LH, 2 locations in total)

- (11) After making the hole, remove burrs around the hole.



- (12) Degrease the entire vehicle roof spoiler with a waste cloth soaked in a degreaser (recommended: Nonane).
 (Fig. 11)

Fig. 11



- (13) Peel off each of the backing paper of the double-sided tape on the backside of the roof spoiler ① approximately 3 to 5 cm from the end, bend it outward, and attach it to the front side with masking tape.
 (Fig. 12)

(9 locations each on RH and LH, 18 locations in total)

Fig. 12

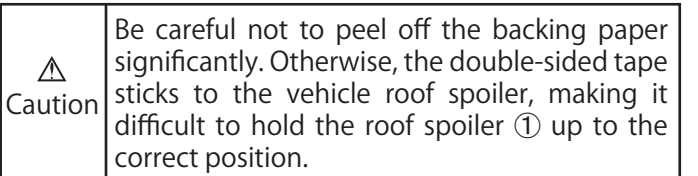
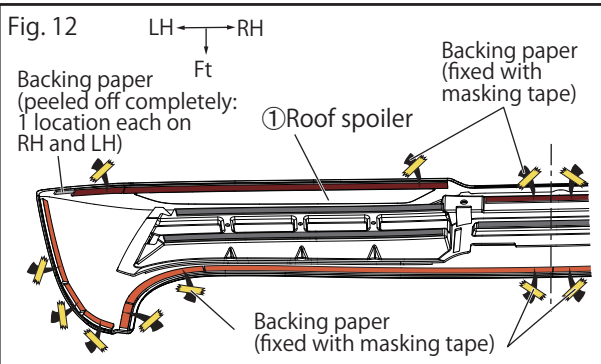
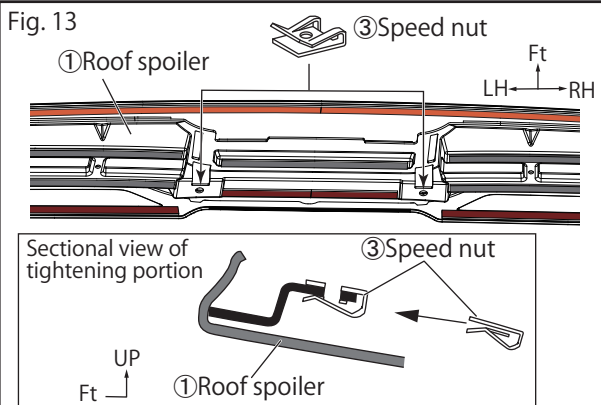


Fig. 13



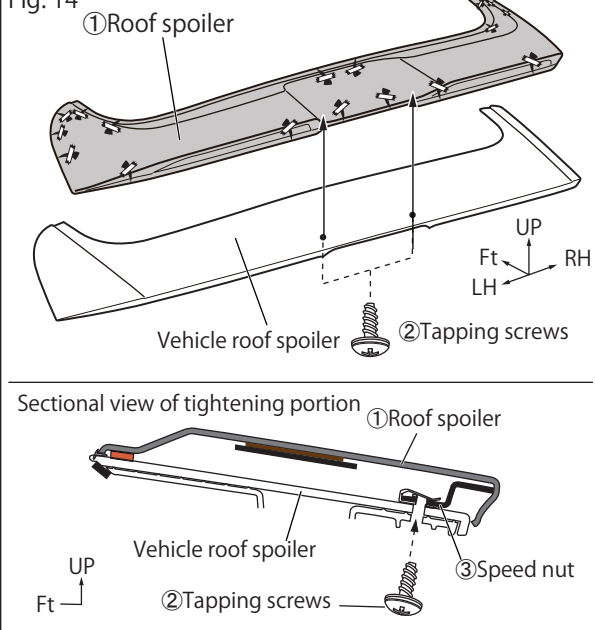
- (14) Install the speed nut ③ to the installation hole on the backside of the roof spoiler ①.
 (Fig. 13)

(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 40° 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 it.
- After attaching the tape, avoid washing the vehicle at least 24 hours.

Fig. 14



4. Spoiler installation work

- (1) Place the roof spoiler ① on the vehicle roof spoiler. (Fig. 14)

⚠ Caution	When placing the roof spoiler ①, be careful not to damage the vehicle roof spoiler and roof spoiler ①. This work is recommended to be performed with 2 workers.
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- (2) Insert the tapping screws ② into the holes made on the high mount stop lamp installation portion of the vehicle roof spoiler in 3.(10) attach the roof spoiler ① at the speed nut of ③ portions. (Bolt: 2 locations in total)
Tightening torque for reference: 2.0 N·m (0.2 kgf·m) (Fig. 14)

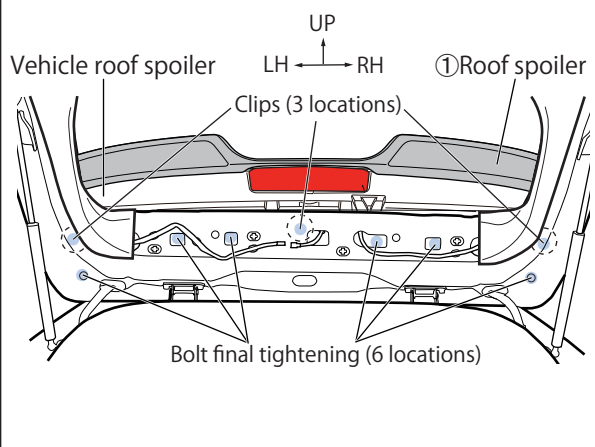
- (3) Referring to 3.(6), restore the high mount stop lamp. Tightening torque for reference: 4.5 N·m (0.5 kgf·m)
- (4) Perform 3.(1) to (5) in reverse order to reinstall the vehicle roof spoiler. (Clip: 3 locations in total)
(Bolt: 6 locations in total)
Tightening torque for reference: 7.5 N·m (0.8 kgf·m) (Fig. 15)

- (5) After attaching the ground terminal to the battery sensor, check that the high mount stop lamp lights up.

⚠ Caution	Be careful not to catch the harness of each part when restoring vehicle parts.
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⚠ Caution	Incomplete installation of the vehicle roof spoiler may cause leakage. Make sure that the bolts are fully tightened.
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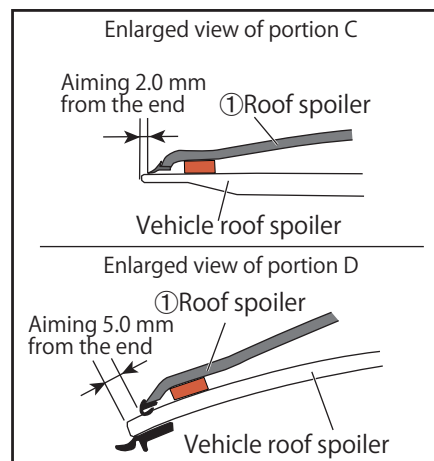
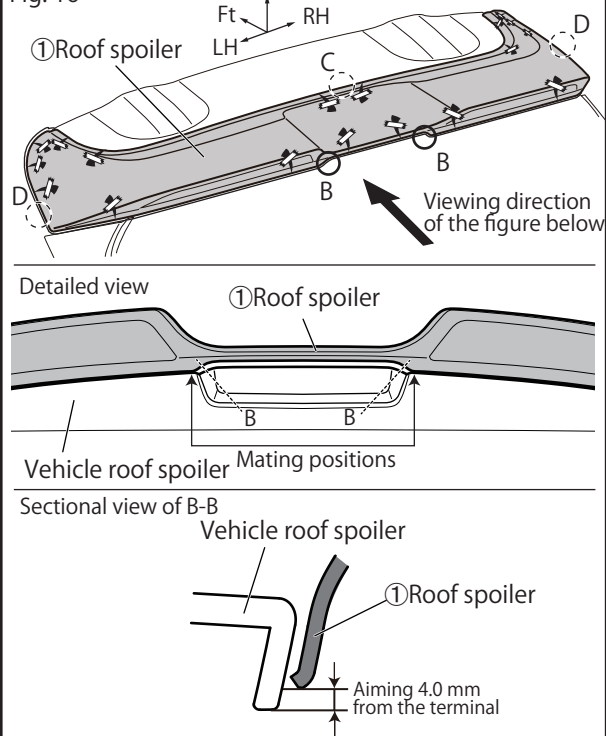
Fig. 15

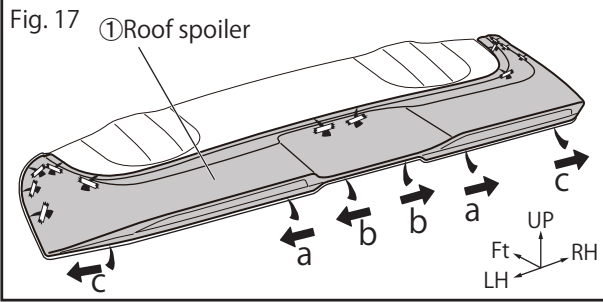


- (6) Position the roof spoiler ① so that the portion B on each side will be equally distant from each end of the vehicle roof spoiler. (Fig. 16)

Reference value Portion B: Approximately 4 mm
Allowance ± 1 mm
(Reference value: Approximately 2 mm for portion C, Approximately 4 mm for portion D)

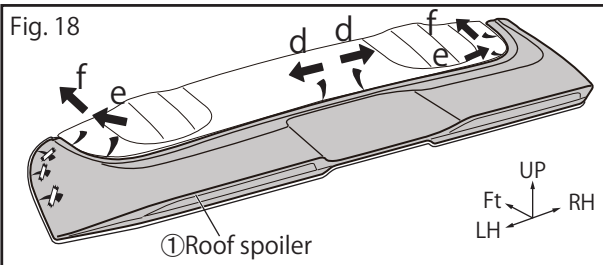
Fig. 16





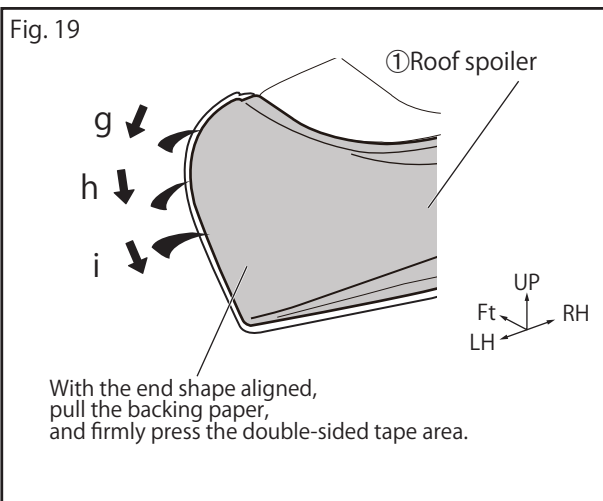
- (7) While holding the end positions aligned in the step (4) along the vehicle roof spoiler, slowly pull off the backing paper of the double-sided tape outward from the center in the order of "a → b → c" so that the backing paper will not break at midpoint, and firmly press the double-sided tape area to the vehicle roof spoiler.

(Fig. 17)



- (8) While holding the entire shape of the roof spoiler ① along the vehicle roof spoiler, slowly pull off the backing paper of the double-sided tape outward from the center in the order of "d → e → f" so that the backing paper will not break at midpoint, and firmly press the double-sided tape area to the vehicle roof spoiler with a force to the extent that vehicle body shakes slightly.

(Fig. 18)



- (9) While holding the end shape of the roof spoiler ① along the vehicle roof spoiler, slowly pull off the backing paper of the double-sided tape in the order of "g → h → i" from the front to the rear so that the backing paper will not break at midpoint, and firmly press the double-sided tape area of the roof spoiler ① to the vehicle roof spoiler.

(Fig. 19)

5. Check after installation work or inspection

- (1) Open and close the rear gate to check that there is no abnormality (malfunction or abnormal noise) during the open/close operation.
- (2) Check for any looseness, inclination, coming-off of bolts and nuts, and others in the installed area, and make corrections if necessary. Finally, check that there is no scratch, dirt, or the like.

The installation work has been completed.