

GENUINE REAR SPOILER

INSTALLATION AND USER'S 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 rear spoiler.

Keep these instructions with your vehicle records for future reference.

⚠ WARNING

- There are several ⚠ **WARNING** and ⚠ **CAUTION** sections in this booklet concerning safety when installing or removing the rear spoiler. 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 rear spoiler.
- Do not install the rear spoiler 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: REAR SPOILER

PART NUMBER: KLBC V4 920

VEHICLE: MAZDA CX-5

NOTE

To the dealer

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

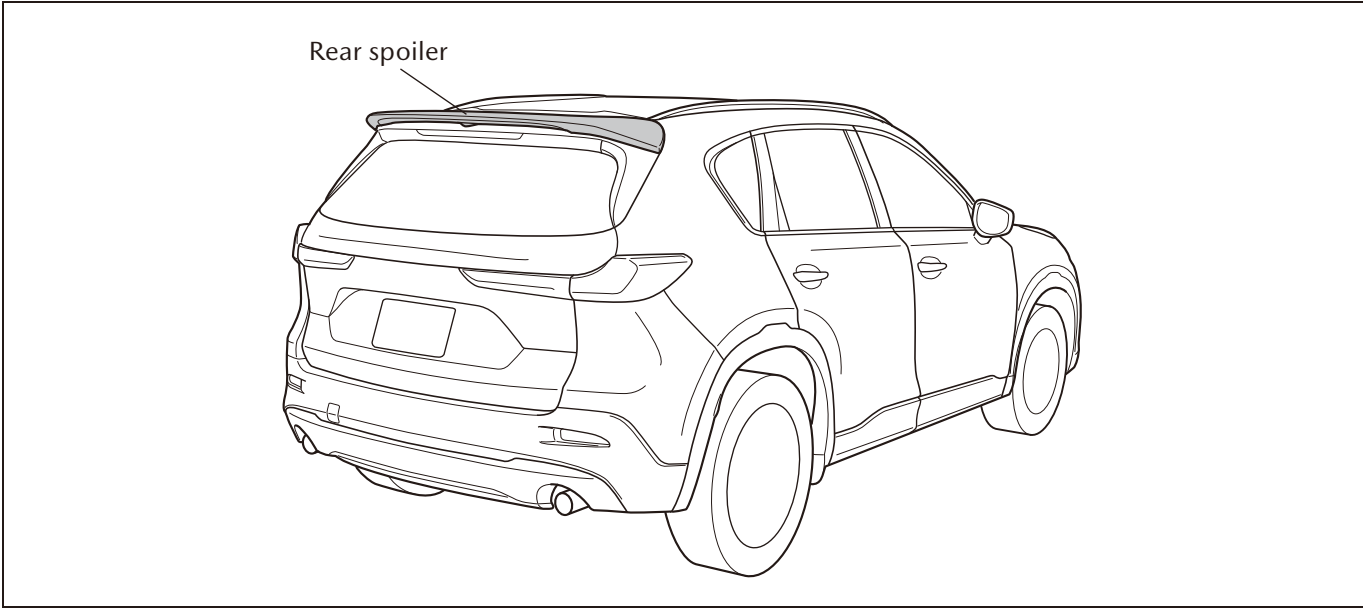
To the customer

- 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.




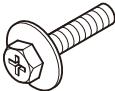




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マツダ株式会社 アフターセールス商品開発グループ		

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
	Rear spoiler	1		M5 bolt	2
	M5 nut	1		Clip	2
	WEB Guidebook (For EU)	1		KBA Approval Paper	1

3. BEFORE INSTALLATION

REQUIRED TOOLS (Make sure they are at hand before starting work)

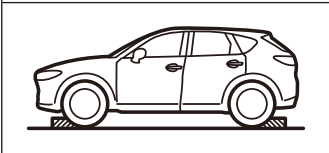
- ☆ Drill (φ 3、 φ 6、 φ 8、 φ 10)
- ☆ Ultrasonic cutter
- ☆ Deburring Tool
- ☆ Household dryer (1000 to 1200 W)
- ☆ Punch
- ☆ Ratchet wrench (8mm)
- ☆ Ruler
- ☆ Scissors
- ☆ Fastener remover
- ☆ Flathead screwdriver

Other items to prepare

- ☆ Masking tape (10 mm width)
- ☆ Bumper rack
- ☆ Protective sheet
- ☆ IPA (isopropyl alcohol) or white gasoline
- ☆ Instant adhesive (Super Cement: TB1782)
- ☆ Curing tape (38 mm width)

! WARNING

Park the vehicle on a flat, level surface, apply the parking brake firmly and block the wheels so that the vehicle does not move during installation. If this is not observed, the vehicle may move and injury may result.



! CAUTION

<p>Be sure to cover the vehicle body with protectors or mats when removing/installing parts. Otherwise, the vehicle may be scratched or become dirty.</p>	<p>Using improper tools may cause damage and or broken parts. Use the correct tool for the installation.</p>	<p>Wrap protective tape around screwdrivers and fastener remover tools to prevent scratching the vehicle.</p>	<p>Put the removed parts and the parts in the kit on the protective sheet to prevent scratches.</p>
<p>【Drilling】 When drilling holes, be sure to wrap the drill bit with gum tape or similar to prevent drilling from going too deep.</p>	<p>【Drilling】 When drilling holes, hold the drill bit or hole saw so that it is perpendicular to the drilling surface so that the position of the hole being drilled does not shift.</p>	<p>【Drilling】 After drilling holes, file away any rough edges and burrs until the edges are smooth.</p>	<p>If there is any dirt, grease or other contamination on the attachment surface, they may become attached to the double-sided tape, causing a drop in the adhesive strength of the double-sided tape. You should clean the attachment surface thoroughly before attaching the tape. Use IPA (isopropyl alcohol) or similar to clean interior and exterior surfaces.</p>

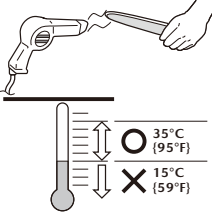
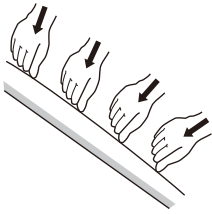
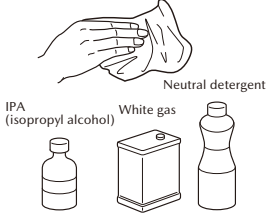
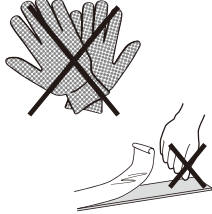
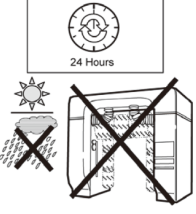
Advice

Refer to the Workshop Manual for removal and installation of applicable vehicle parts.



4. DOUBLE-SIDED TAPE ATTACHMENT

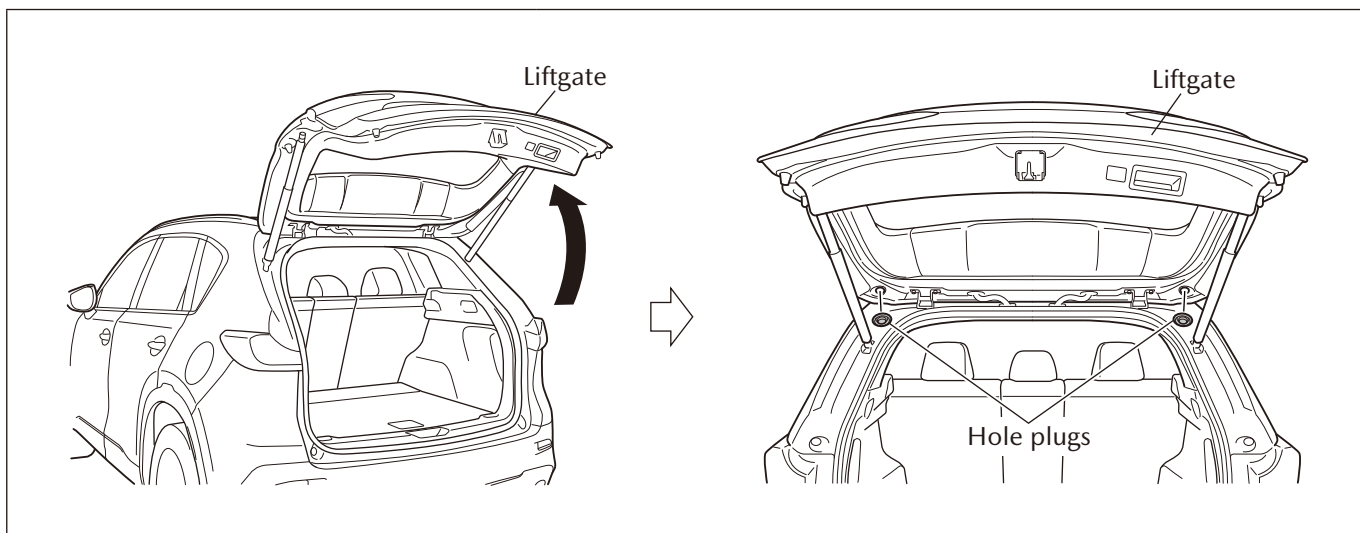
* "Attachment surface" refers to the vehicle's rear spoiler, and "part" refers to supplementary parts.

<p>1. Avoid working in ambient temperatures of less than 15 °C.</p> <p>The stickiness of the adhesive depends on the softness of the resin, and so the adhesive loses its stickiness and the adhesive strength drops at low temperatures (15 °C or less). Accordingly, avoid carrying out work in places where the ambient temperature is less than 15 °C. If working in places where the ambient temperature is less than 15 °C, you should heat the attachment surface and the part until they are warm enough.</p>	<p>2. Attach evenly.</p> <p>In order to ensure that the adhesive surface of the double-sided tape attaches correctly, it is necessary to press the adhesive surface of the tape against the attachment surface with a uniform force (50N) overall. In particular, press down sufficiently on the double-sided tape when the ends of the tape and the attachment surface are curved.</p>	<p>3. Clean the attachment surface.</p> <p>If there is any dirt, grease or other contamination on the attachment surface, they may become attached to the double-sided tape, causing a drop in the adhesive strength of the double-sided tape. You should clean the attachment surface before attaching the double-sided tape. As a general rule, use mild detergent for interior surfaces, and use IPA (isopropyl alcohol) or white gas for exterior surfaces. After cleaning, let the area dry sufficiently.</p>
		
<p>4. Avoid getting the tape dirty.</p> <p>If you touch the adhesive surface while working, oil from your hands can get onto the adhesive and cause a drop in the adhesive strength of the double-sided tape. In addition, when working while wearing gloves, fibers and dirt from the gloves may become attached to the adhesive. Take care to avoid contaminating the adhesive surface of the double-sided tape.</p>	<p>5. Handling after attaching the tape.</p> <p>After the tape has been attached, the adhesive strength will not stabilize until 24 hours have passed, so do not drive or wash the vehicle or leave it exposed to rain for 24 hours. In addition, never remove and reattach the double-sided tape once the product has been installed, as this will result in a dramatic drop in adhesive strength.</p>	
		

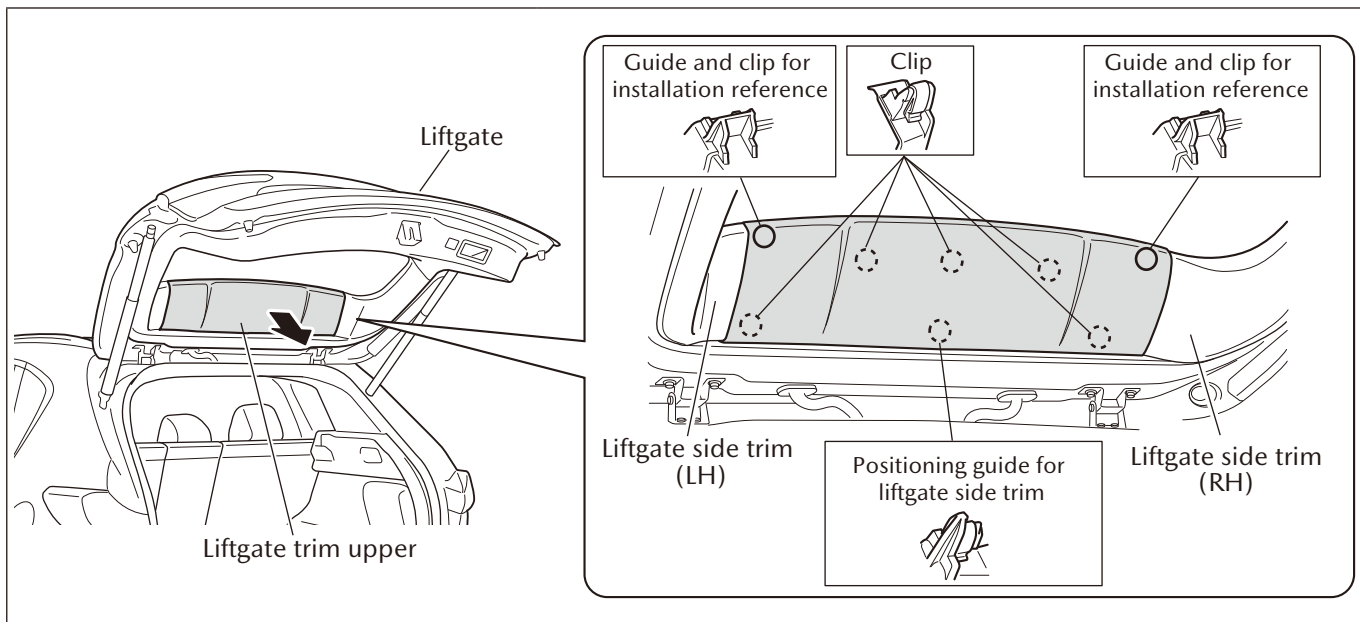
5. VEHICLE PART REMOVAL

Vehicle part (rear spoiler) removal

1. Open the liftgate.
2. Disconnect the negative battery cable while referring to "Disconnecting/connecting negative battery cable" in the vehicle workshop manual.
3. Remove the hole plugs.

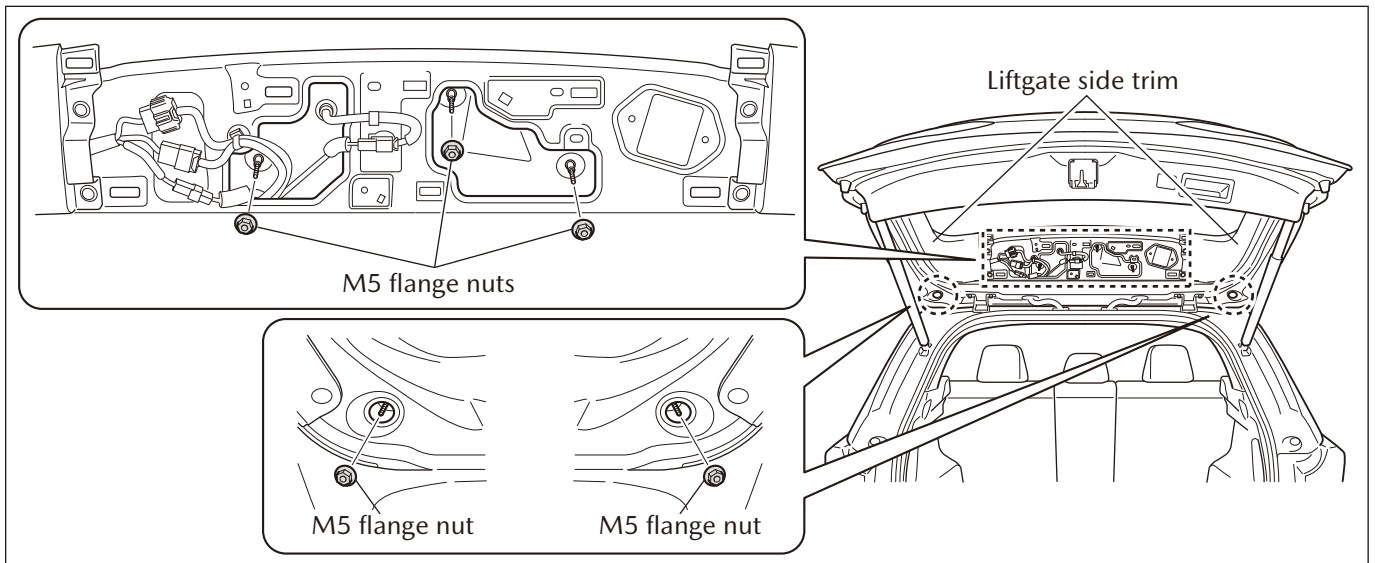


4. Remove the liftgate trim upper.

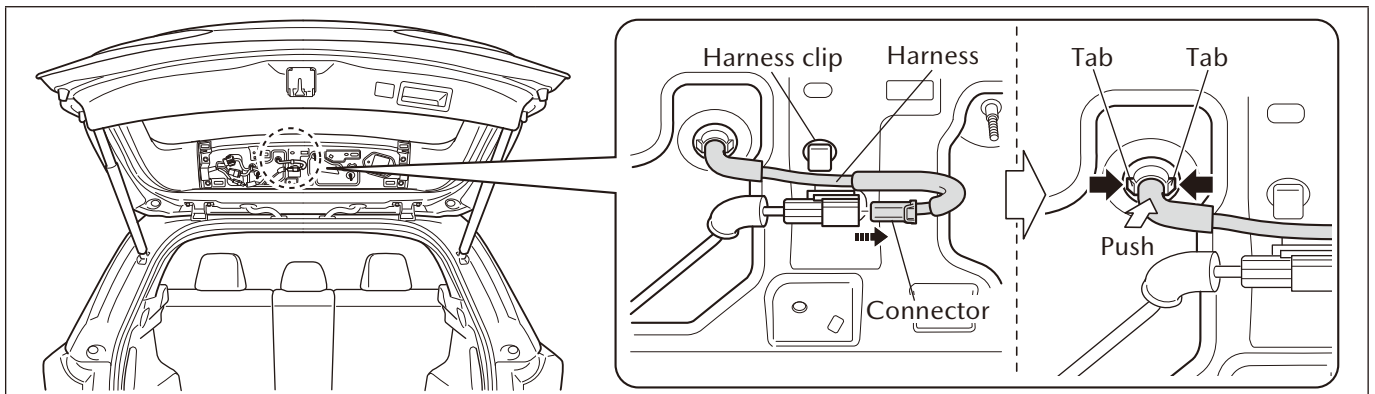


- Remove the M5 flange nuts (5 places) which are installing the rear spoiler.

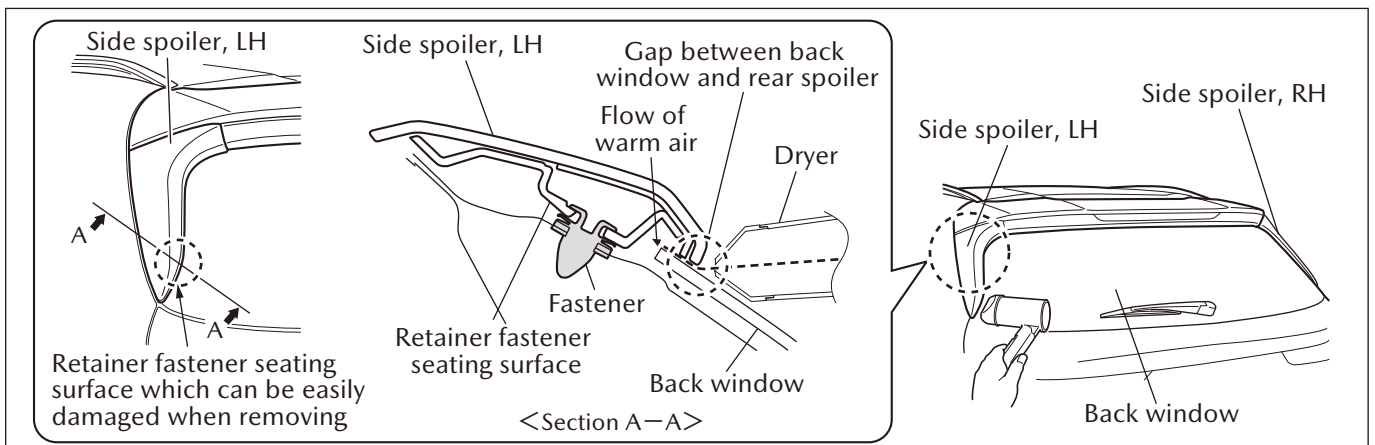
M5 flange nut tightening torque : (3.93—5.88 N·m)



- Disengage the harness from the harness clip, and then disconnect the connector at the position in the figure below.
- Press the tabs of the grommets shown in the figure (1 place each at left and right) to disengage the grommets from the lift gate, and push the grommets into the holes in the vehicle.

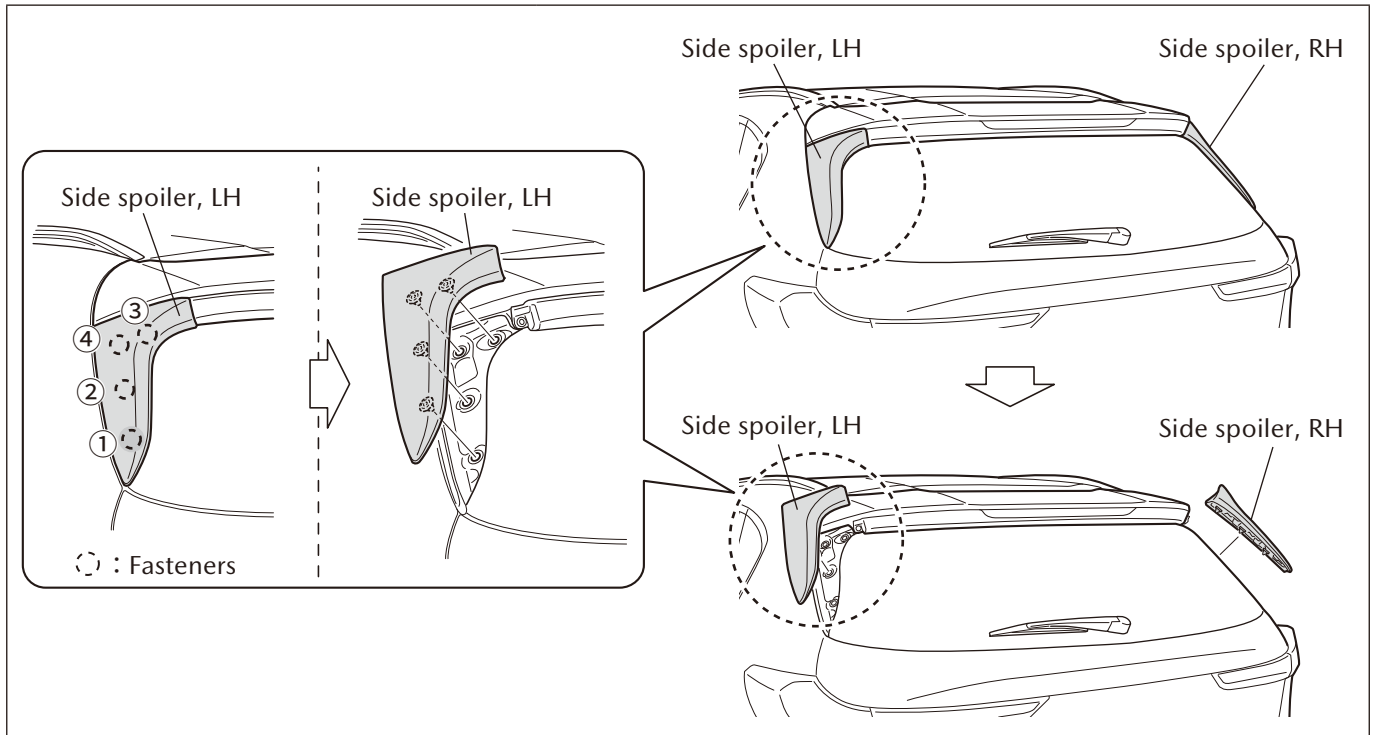


- Because the seating surface for the retainer fasteners can be easily damaged when removing the side spoiler, LH, use the hot air from a household dryer (1000 to 1200 W) to blow warm air through the gap between the back window and the side spoiler, LH to warm up one side of the side spoiler, LH for approximately 30 seconds as shown in the figure below.



9. After this, remove the fasteners from the warmed area in the direction perpendicular to the back window in the order of ① to ④ as shown in the figure below, and then remove the side spoiler, LH.

10. Remove the side spoiler, RH as well by following the procedure in steps 8 and 9.

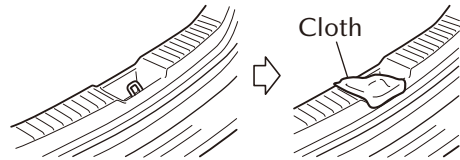


⚠ CAUTION

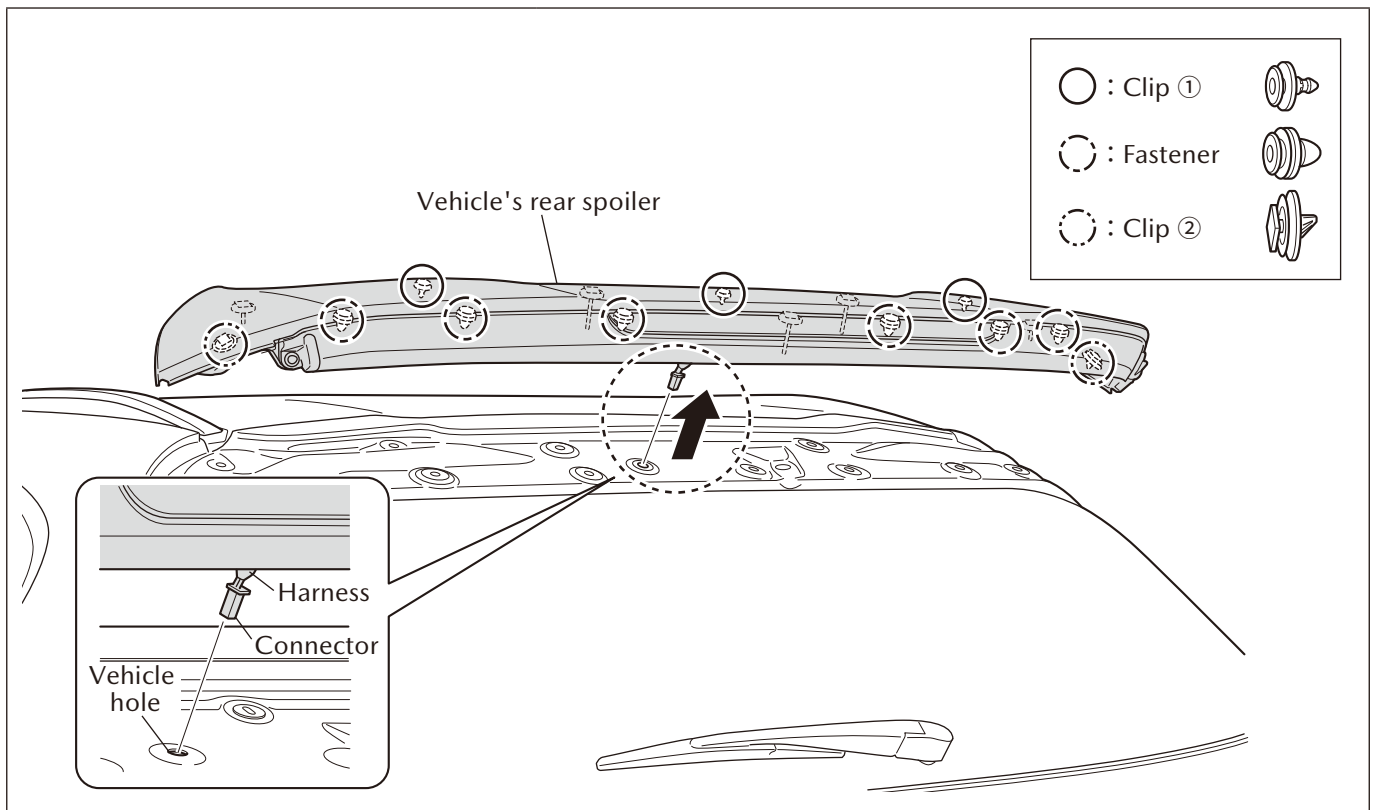
- If you forcibly remove the side spoiler, LH without warming around the places where the clips of the side spoiler, LH are installed (marked with ◯ in the figure above), the seating surfaces for the retainer fasteners may peel away from the side spoiler, LH.
- If these places are warmed using the warm air from a household dryer (1000 to 1200 W) for approximately 30 seconds, the ambient temperature of these areas will reach normal temperature (23 °C). If the ambient temperature is too low, be sure to warm the areas for a bit longer.

11. Pull the harness out through the vehicle hole in the liftgate so that the connector does not get caught, firmly pull the vehicle's rear spoiler vertically with respect to the liftgate in the order of the left, right and center parts to disengage the clips ② (⊖ marks: 1 each at left and right), the fasteners (⊖ marks: 6 places at rear) and the clips ① (○ marks: 3 places at front), and then remove the vehicle's rear spoiler.

- Cover the locking part of the liftgate with a cloth so that the liftgate cannot fully close.



- Be careful not to damage the rear spoiler harness when removing the vehicle's rear spoiler.



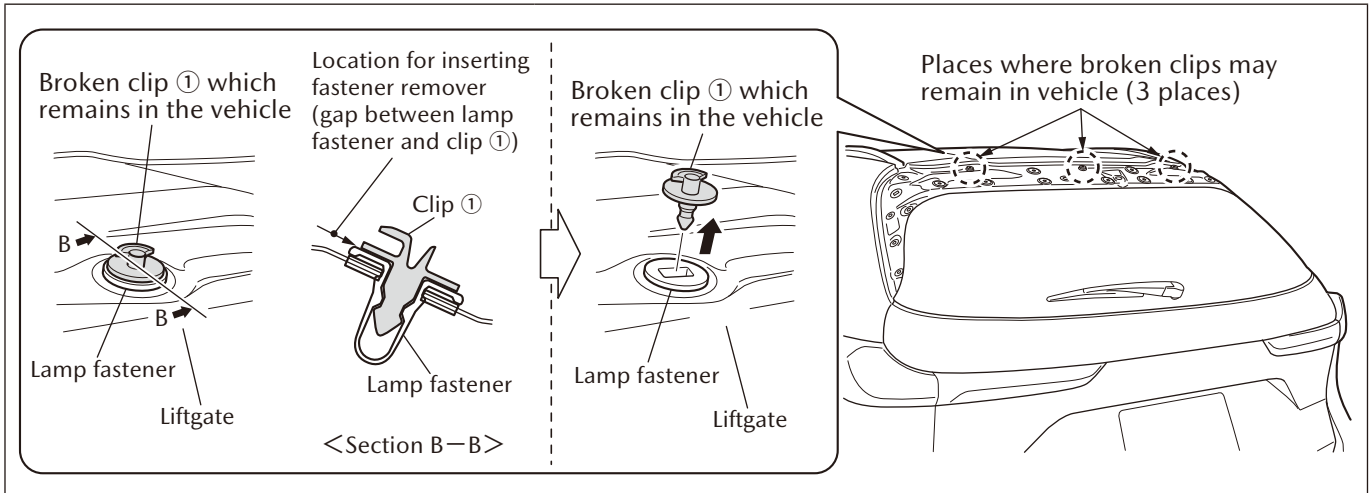
12. Place the vehicle's rear spoiler which was removed onto the protective sheet.

Vehicles which require clips ① to be replaced

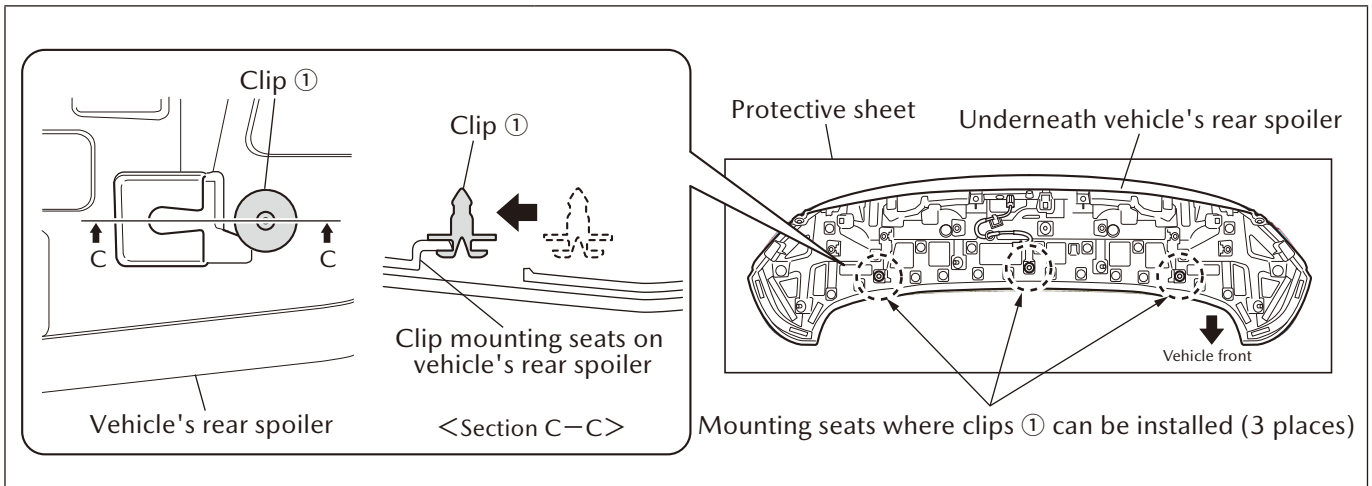
This procedure is for vehicles in which the broken clips ① remain in the vehicle after removing the vehicle's rear spoiler.

For vehicles which do not require the clips ① to be replaced, carry out the work in "PREPARATION BEFORE REAR SPOILER INSTALLATION" on page 10.

1. Remove all clips ① which remain in the vehicle by insert the fastener remover in between the lamp fastener and the clip ① to disengage the clip ①, while being careful not to damage the lamp fastener.



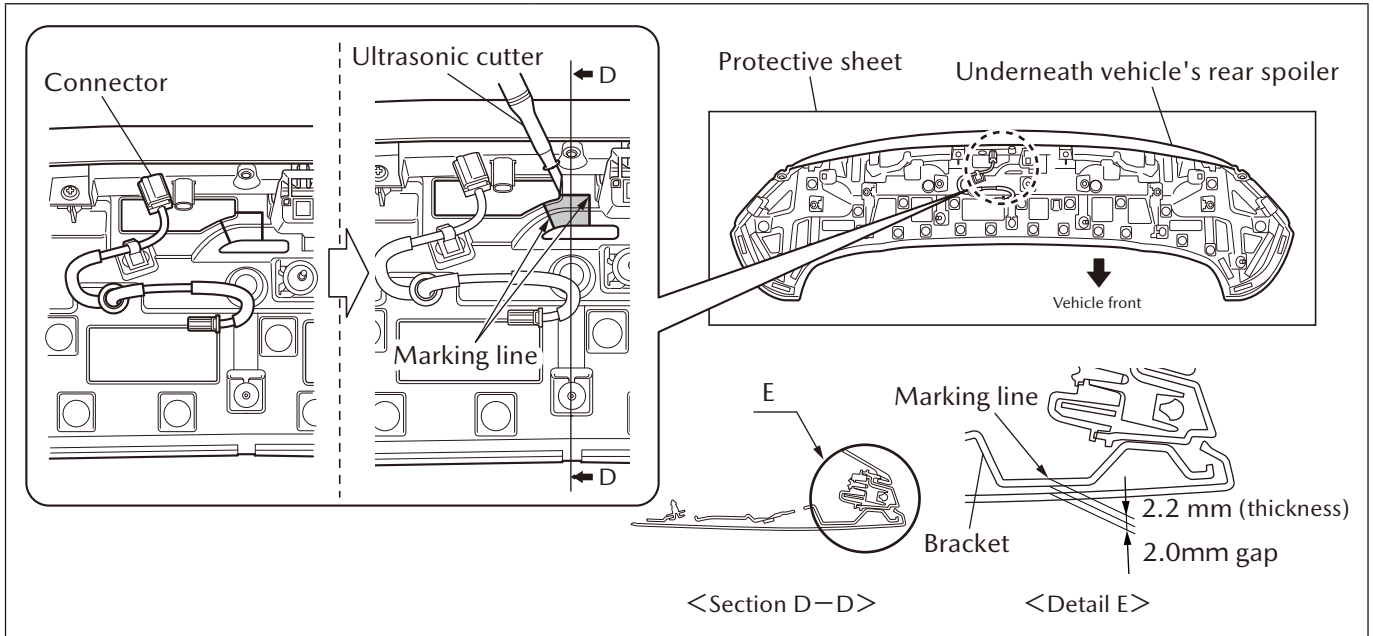
2. Install the clips ① to the clip mounting seats on the vehicle's rear spoiler which do not have clips ① installed as shown in the cross section.



6. PREPARATION BEFORE REAR SPOILER INSTALLATION

Preparation for drilling rear spoiler mounting holes

1. Disconnect the connector for the vehicle's rear spoiler.
2. Use an ultrasonic cutter to cut part of the bracket along the marking line.

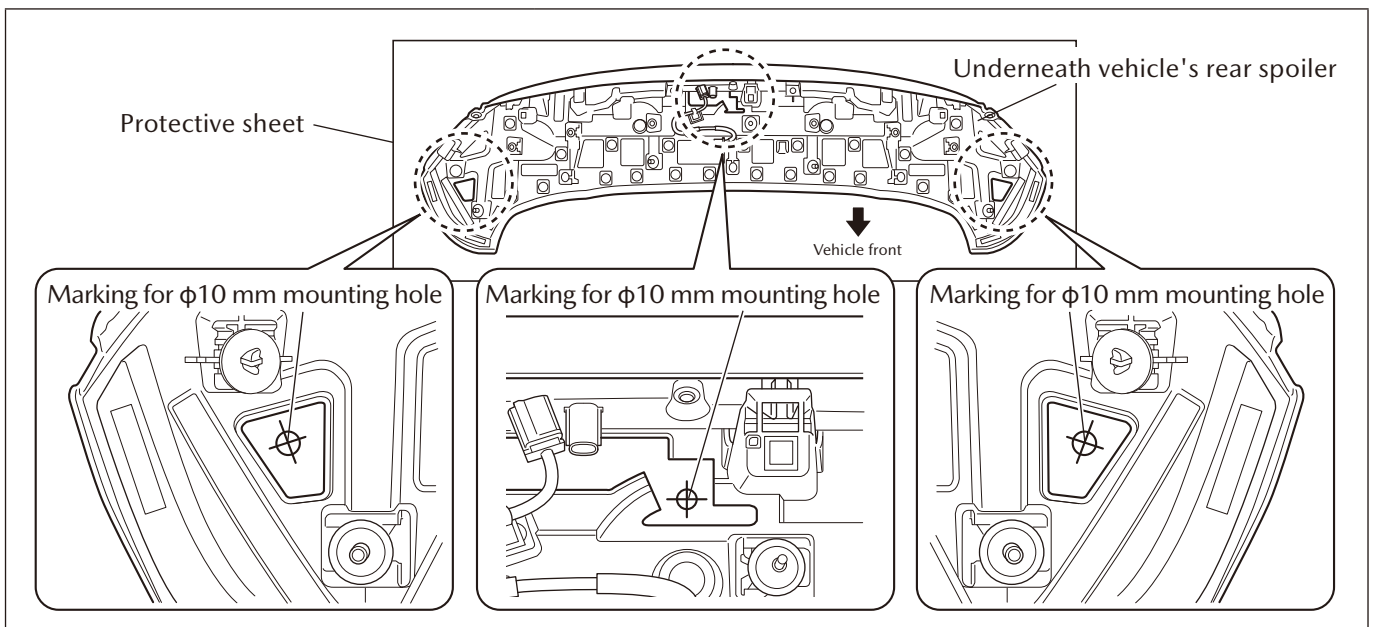


⚠ CAUTION

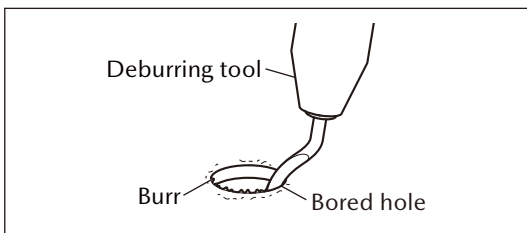
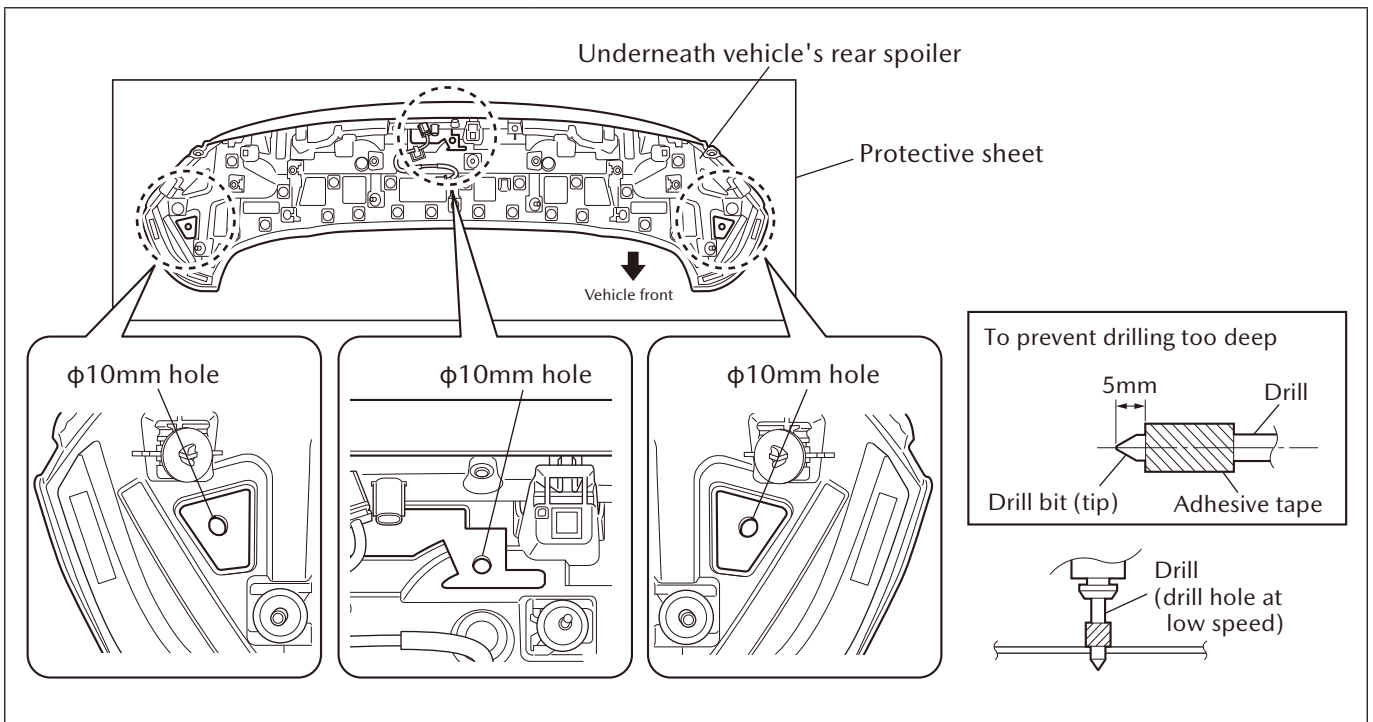
- Be careful not to let the ultrasonic cutter blade penetrate too deeply into the bracket. If the blade penetrates too deeply, it would have an adverse effect on the appearance of the surface of the vehicle's rear spoiler.

Rear spoiler mounting hole drilling

1. Use a punch to make marks at the centers of the $\phi 10$ mm mounting holes. (3 places)



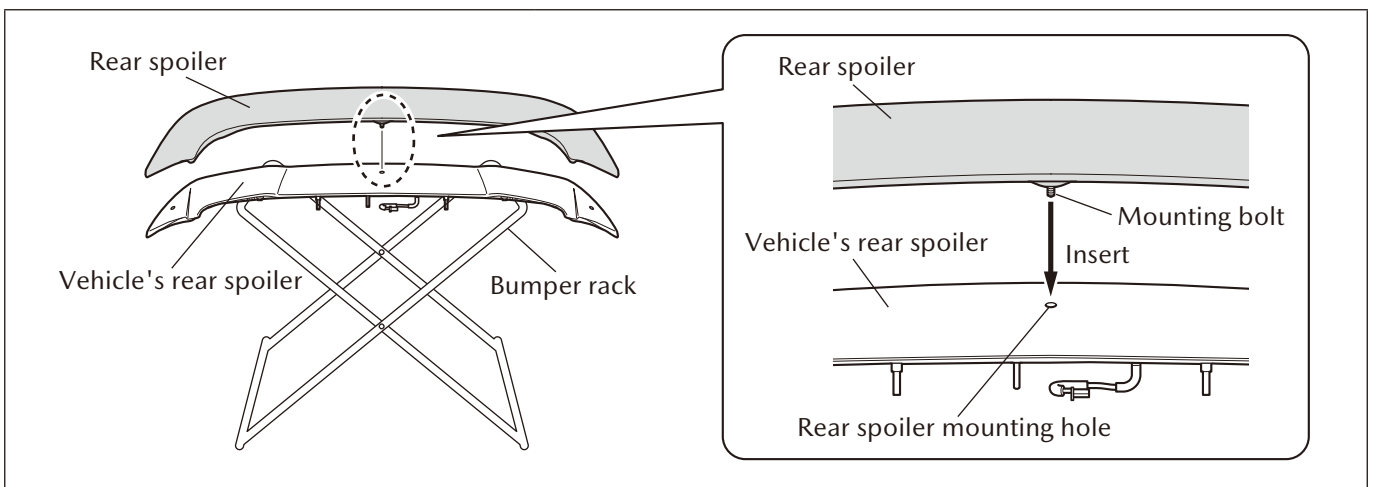
- Use a drill to drill a ϕ 10 mm hole in stages at the location of the mark. (3 places)
(ϕ 10mm hole : ϕ 3mm \rightarrow ϕ 6mm \rightarrow ϕ 8mm \rightarrow ϕ 10mm)



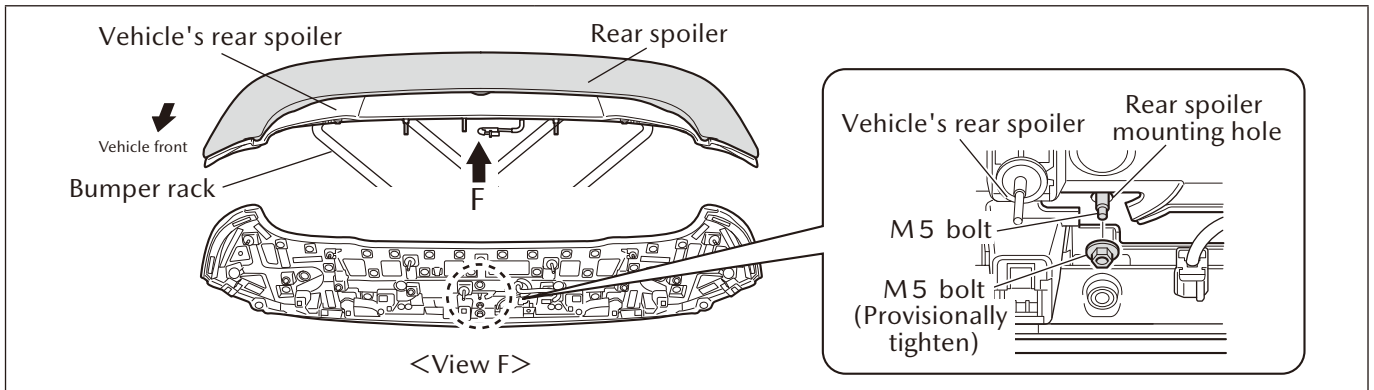
- After drilling the hole, use a deburring tool to fully remove any burrs from the hole.
- Connect the connector which was disconnected in step 1 of "Preparation for drilling rear spoiler mounting holes".

7. REAR SPOILER POSITIONING

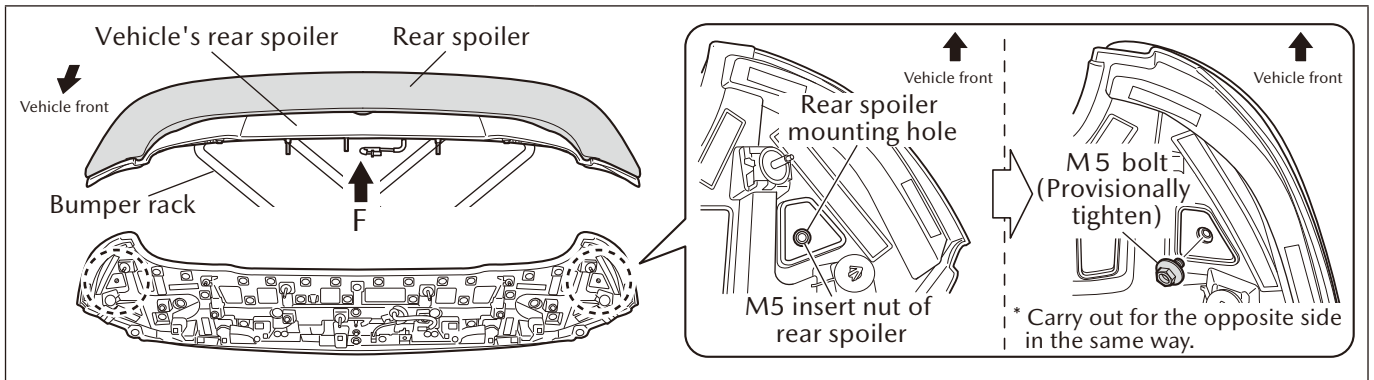
- Insert the M5 bolts of the rear spoiler into the holes in the vehicle's rear spoiler which is sitting on the bumper rack.



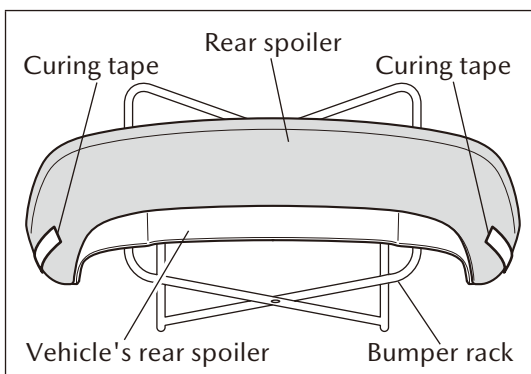
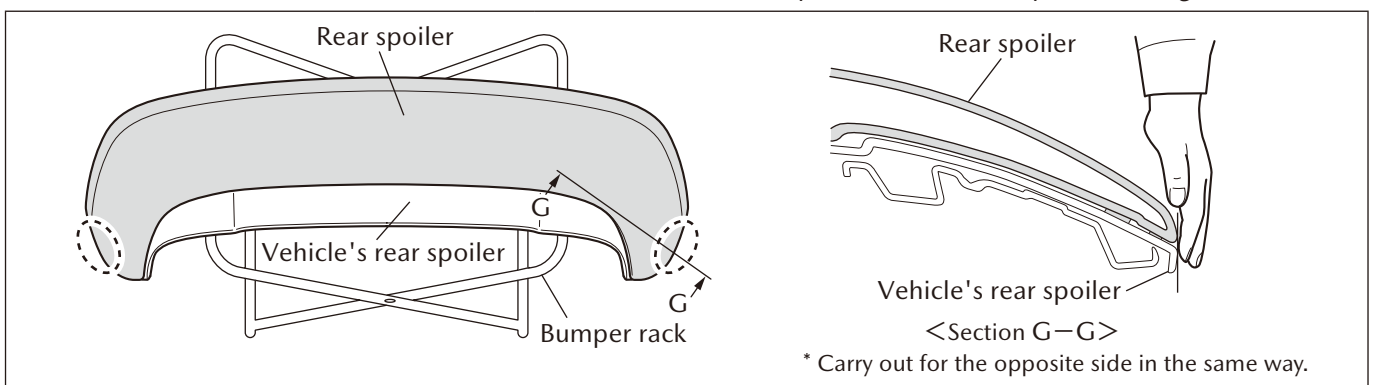
- Provisionally tighten the M5 nut from underneath the vehicle's rear spoiler (1 place).



- Next, look from underneath the vehicle's rear spoiler and check that the rear spoiler mounting hole and the center of the hole in the M5 insert nut of the rear spoiler are aligned, and then provisionally tighten the M5 bolts (2 places).

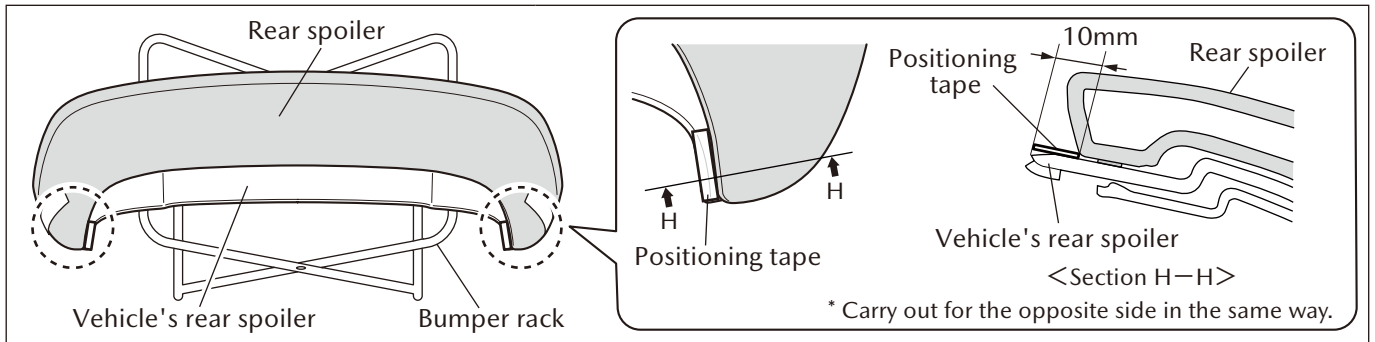


- Place your hand on the left and right ends of rear spoiler which is provisionally installed to the vehicle's rear spoiler near the places indicated by (⊙), and make fine adjustments to the position of the rear spoiler so that the left and right ends of the vehicle's rear spoiler and the rear spoiler are aligned.



- Securely attach 38 mm width curing tape to the rear spoiler as shown in the figure at left so that it does not move.

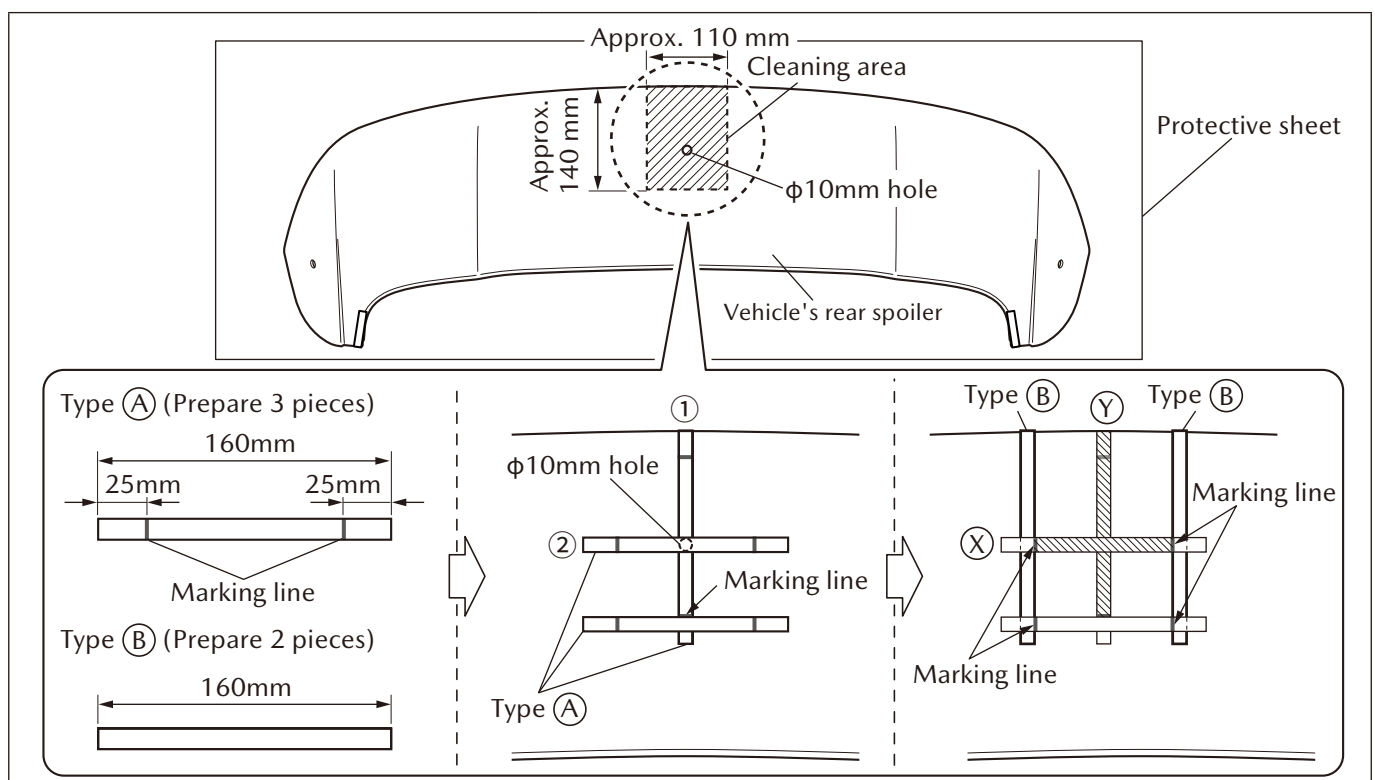
6. Cut some 10 mm width masking tape into two lengths of 50 mm each, and attach them to the vehicle rear spoiler as shown in the figure below to be used as positioning tape for the rear spoiler.
7. Remove the M5 bolts (2 places) which were provisionally tightened in step 3 and the M5 nut (1 place) which was provisionally tightened in step 2, and then peel off the curing tape and remove the rear spoiler.
8. Place the rear spoiler which was removed onto the protective sheet.



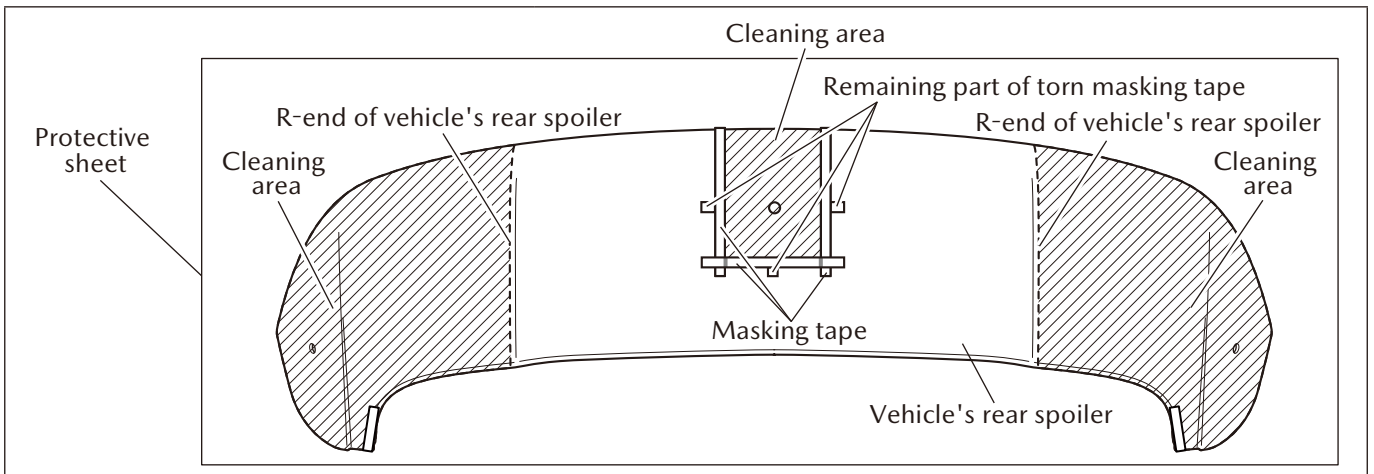
8. REAR SPOILER INSTALLATION

Preparation before rear spoiler assembly

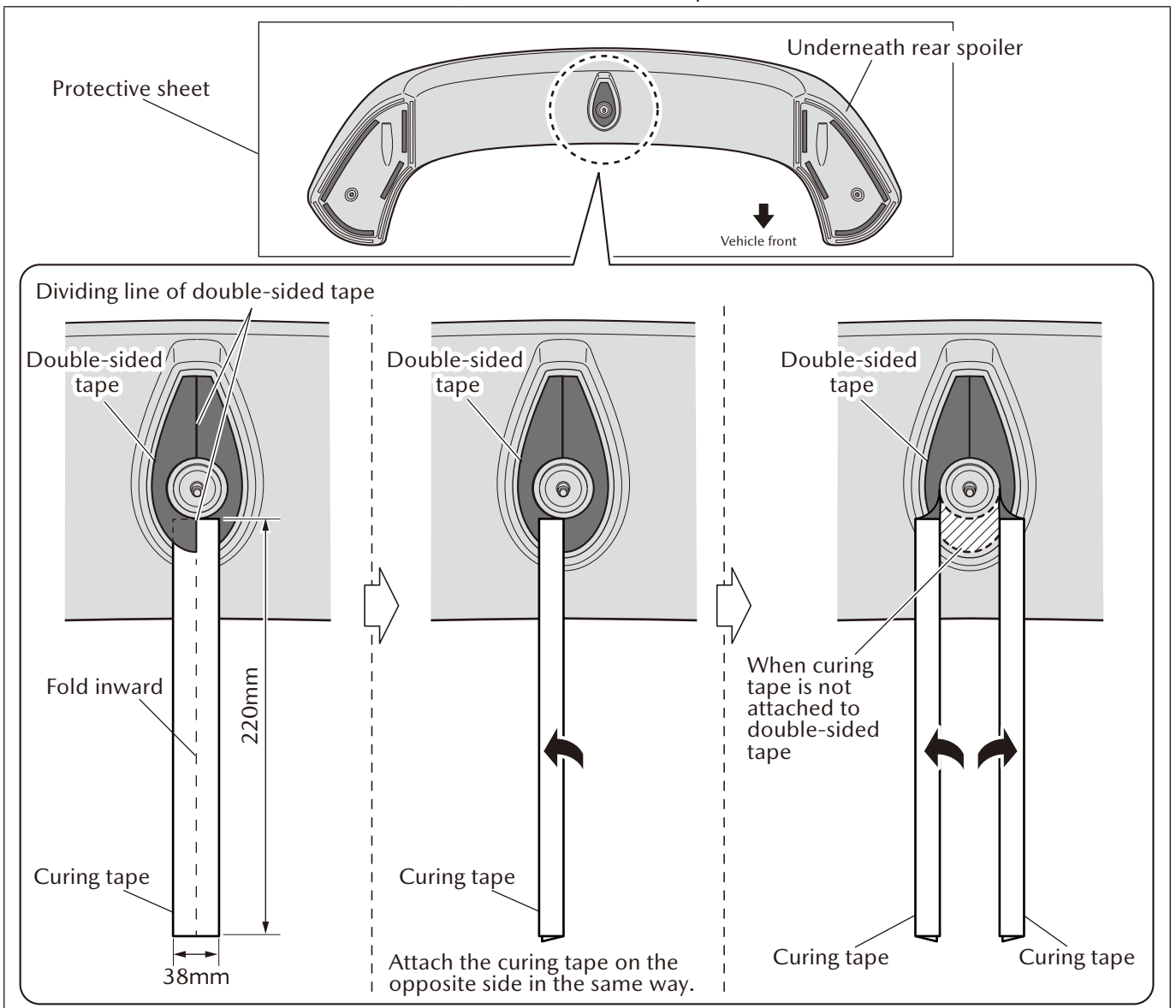
1. Cut some 10 mm width masking tape into two lengths of 160 mm each, and prepare three pieces of type (A) with lines drawn on them for positioning marks 25 mm from each end, and two pieces of type (B) with no lines drawn on them.
2. Attach two pieces of type (A) in the order of ① and ② with the $\phi 10$ mm holes in the vehicle's rear spoiler as reference, and then attach the remaining piece of type (A) with the marking line as reference as shown in the figure below.
3. Attach the two pieces of type (B) using the two marking lines as reference as shown in the figure below, and then tear and peel off the shaded sections of masking tape in the order of (X) and (Y).



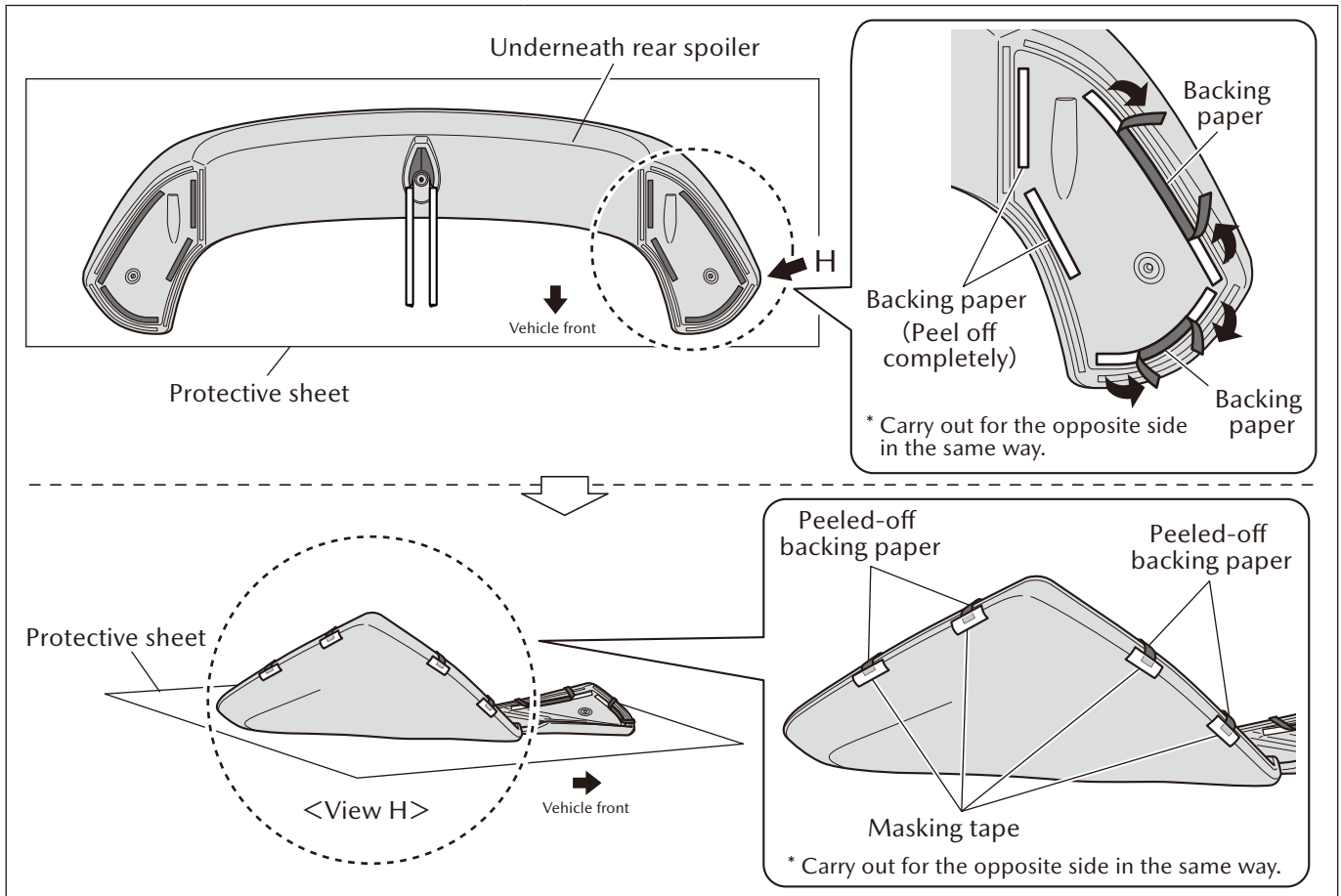
- Use IPA (isopropyl alcohol) or white gasoline to clean the area of the vehicle's rear spoiler where the double-sided tape of the rear spoiler is to be attached as shown in the figure below. Once the area has fully dried, peel off the masking tape.



- Attach curing tape to the backing paper of the double-sided tape on the mounting base at the center of the rear spoiler, and then peel back the backing paper as shown in the figure below so that the 38 mm width curing tape is not attached to the double-sided tape.



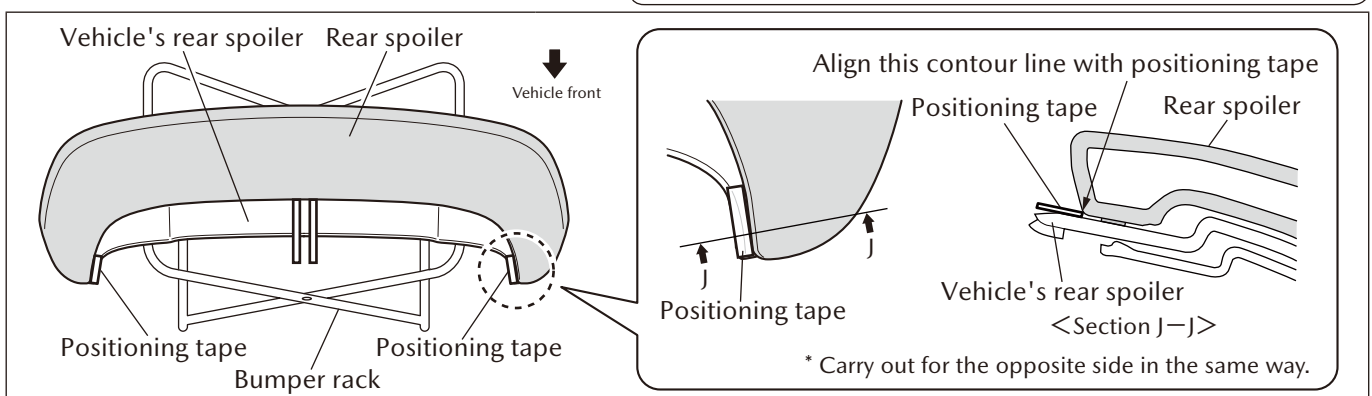
6. Peel back part of the backing paper from the pieces of double-sided adhesive tape on the mounting bases at the left and right sides of the rear spoiler. Peel off the backing paper by 30 to 40 mm in two places and peel it off completely in two places as shown in the figure below.
7. Secure the ends of the backing paper which have been peeled off by about 30 to 40 mm to the surface of the rear spoiler with the 10 mm width masking tape.



Rear spoiler assembly

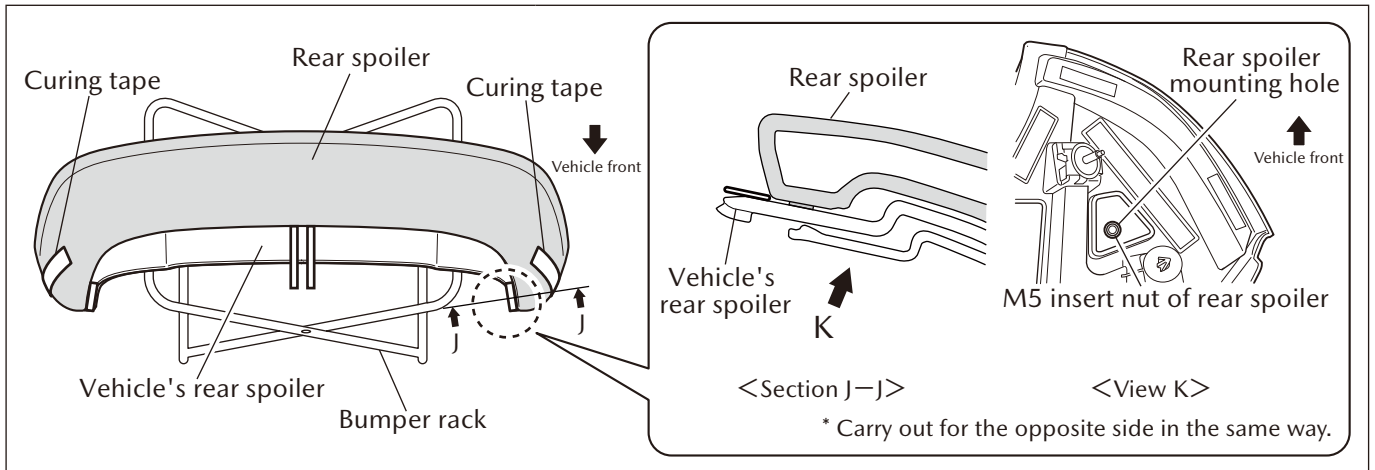
1. Provisionally place the rear spoiler against the positioning tape which was attached in step 6 on page 13 to the vehicle's rear spoiler which is sitting on the bumper rack so that the ends of the left and right mounting bases of the rear spoiler are aligned with the positioning tape.

- Be sure to have two people position the rear spoiler carefully, otherwise the double-sided tape which has the backing paper removed will become attached to the vehicle's rear spoiler.

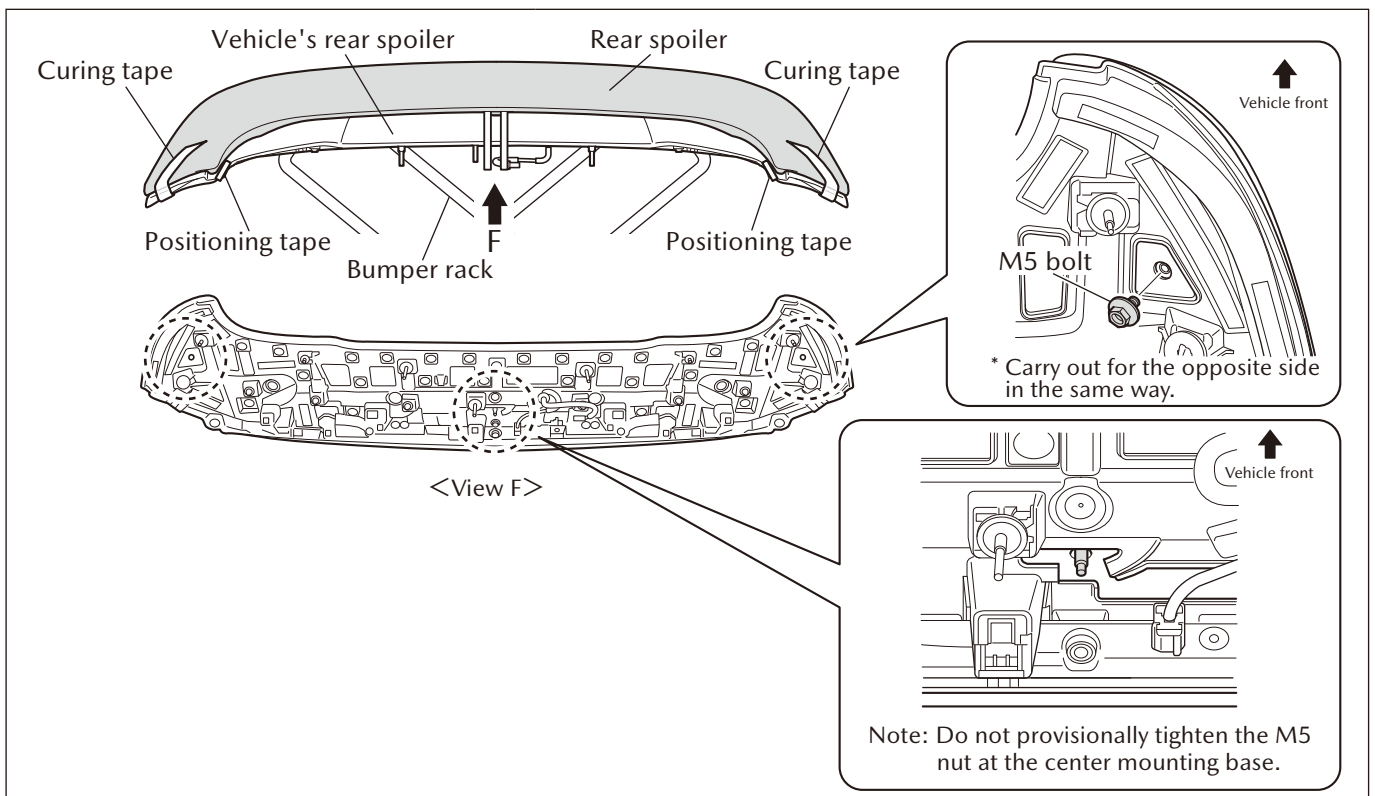


2. Provisionally install the rear spoiler, and then look from underneath the vehicle's rear spoiler and check that the rear spoiler mounting hole and the center of the hole in the M5 insert nut of the rear spoiler are aligned.
3. After checking that the hole center is aligned, have two people attach 38 mm width curing tape securely to the rear spoiler as shown in the figure below so that it does not move from the adjusted position.

- If the hole center is not aligned, be sure to have two people adjust the position of the rear spoiler carefully.

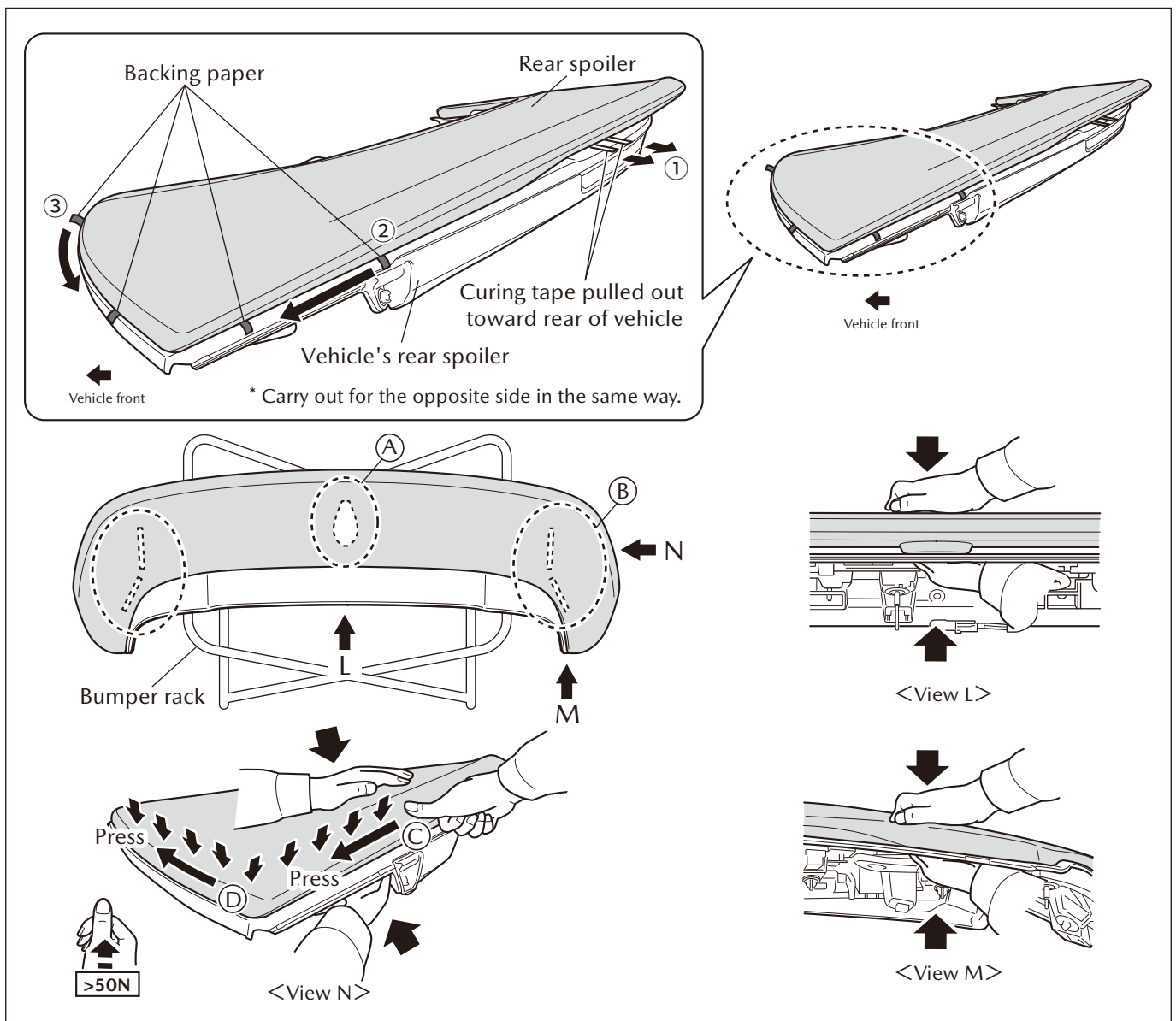


4. Provisionally tighten the M5 nuts at the left and right mounting bases from underneath the vehicle's rear spoiler (2 places), and then peel off the curing tape and the positioning tape.



5. Peel off the backing paper from the double-sided adhesive tape and from the curing tape which is attached to the double-sided tape in the directions of the arrows in the order of ① to ③ as shown in the figure below.
6. Provisionally tighten the M5 nut at the mounting base in the center of the rear spoiler from underneath the vehicle's rear spoiler (1 place).
7. After pressing down firmly on sections ① and then ② in that order from top to bottom to connect the rear spoiler and the vehicle's rear spoiler, press down firmly on sections ③ and then ④ in that order from top to bottom in the directions of the arrows while supporting the underside of the rear spoiler so that it is stable as shown in the figure below.

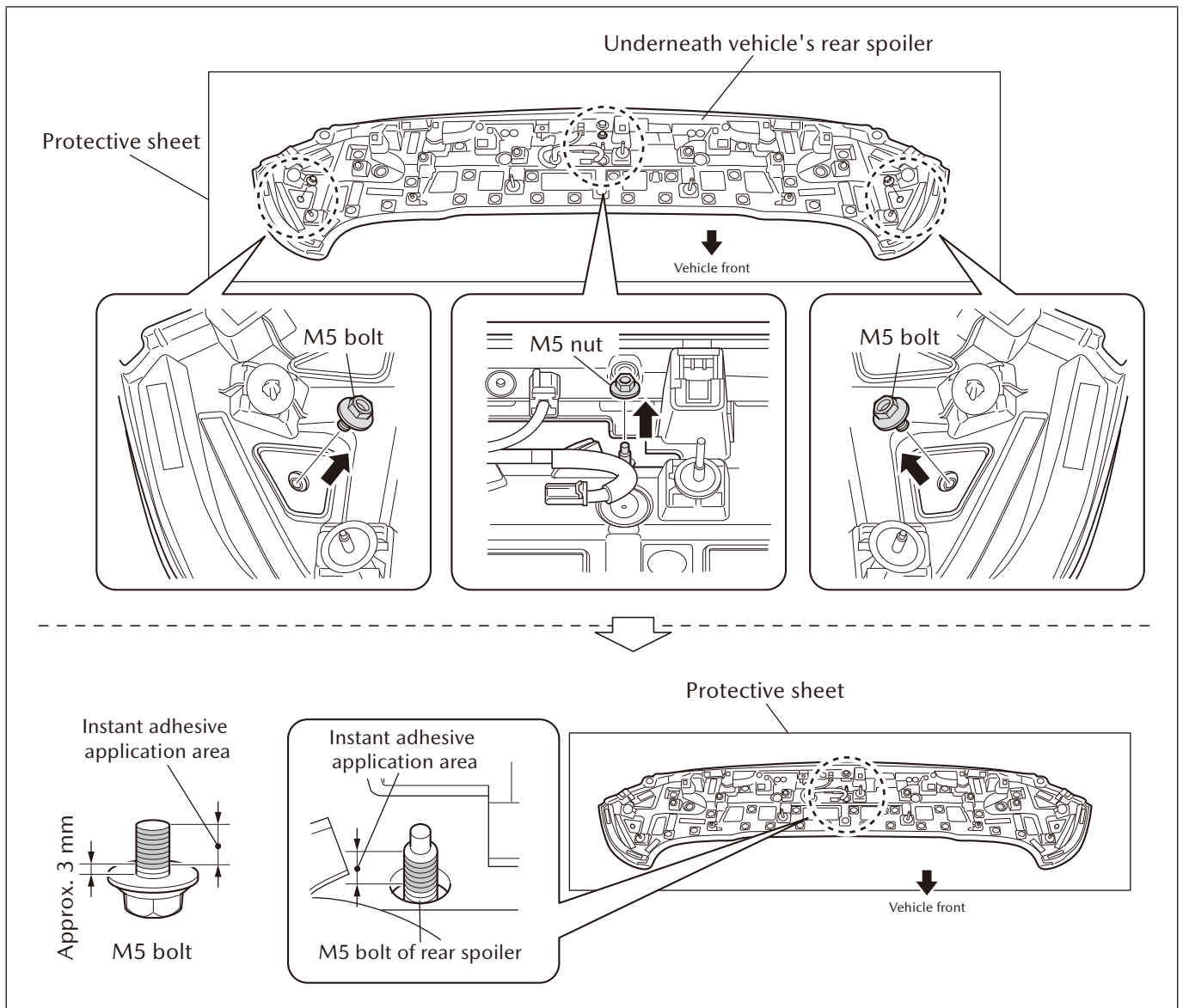
- When attaching, press with enough force (50 N or more) so that the rear spoiler bends slightly.
- Do not detach the tape once it has been attached. If it is detached once it has been attached, the adhesive strength will drop.



8. Place the vehicle's rear spoiler with the rear spoiler attached onto the protective sheet.
9. Remove the M5 bolts (2 places) at left and right which were provisionally installed in step 4, and then apply instant adhesive to the threads of the M5 bolts.
10. Remove the M5 nut which was provisionally installed in step 6 from the M5 bolt in the mounting base at the center of the rear spoiler, and then apply instant adhesive to the threads of the M5 bolt as shown in the figure below.

⚠ CAUTION

- Do not use anything other than the specified instant adhesive.
(The spoiler is made from ABS, so do not use any other screw lock adhesive, as it may result in damage (such as solvent cracking).)

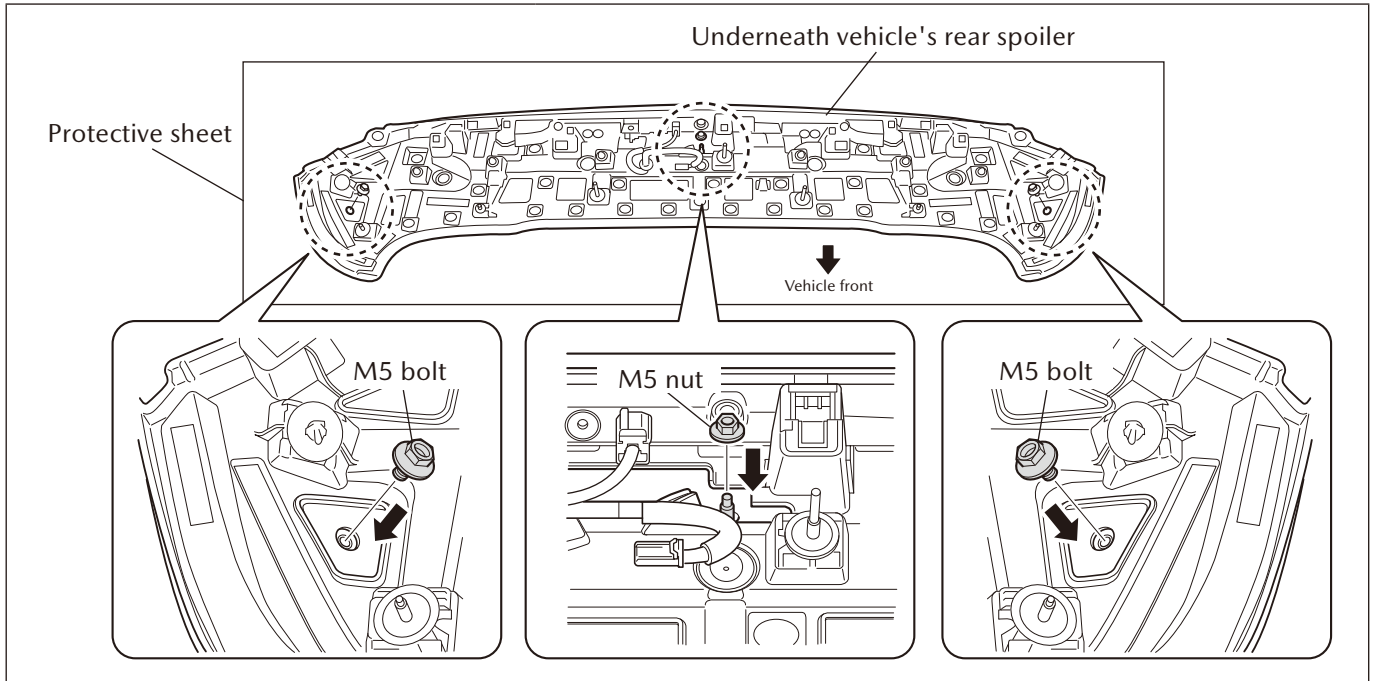


11. Fully tighten the M5 bolts which had instant adhesive applied to their threads in step 9 (2 places).

M5 bolt tightening torque : (5.0—7.8N · m)

12. Fully tighten the M5 nut to the M5 bolt in the mounting base at the center of the rear spoiler which had instant adhesive applied to its threads in step 10.

M5 nut tightening torque : (3.93—5.88N · m)

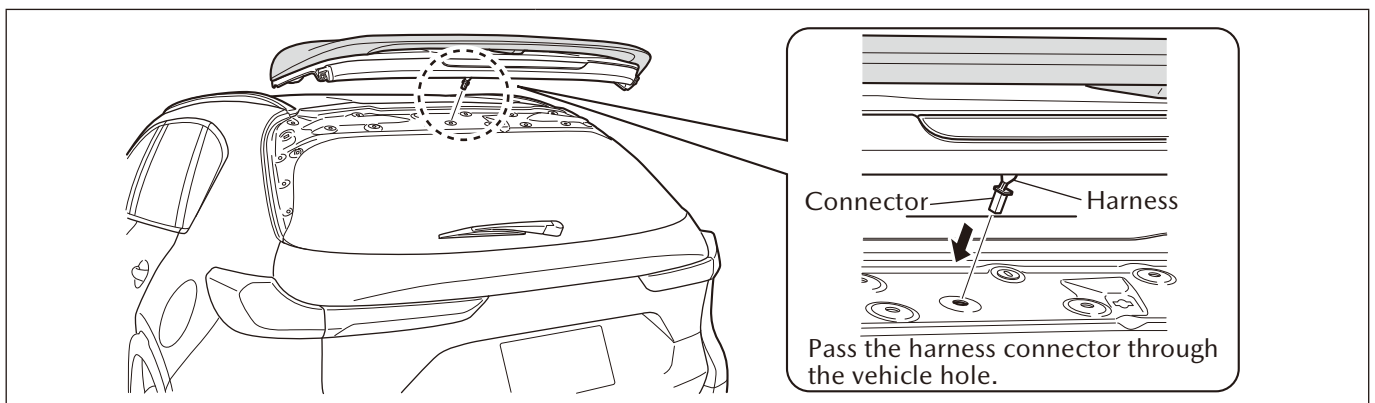


13. Install the rear spoiler assembly to the vehicle while being careful of the harness.

- Two people should carry out this work.

14. Gently open the liftgate.

15. Re-install the rear spoiler by following the procedure in "Vehicle part (rear spoiler) removal" (page 5) in reverse.



9. REASSEMBLY AND INSPECTION

1. Check that all vehicle functions are restored, while referring to "Required servicing after disconnecting/connecting negative battery cable" in "Disconnecting/connecting negative battery cable" in the vehicle workshop manual.
2. Carry out a reassembly and operation inspection for the vehicle parts and check that all items are installed.

10. TO THE CUSTOMER

Heed the following cautions when handling (maintenance) the rear spoiler.

- If gasoline, oil, engine coolant, or battery fluid adheres to the hard plastic parts, it will cause discoloration, stains, or damage. Wipe off immediately with a soft cloth.
- Depending on the type of high pressure car washer used, the water for washing may be high temperature and/or under high pressure. Be careful when using pressurized water from a car washer nozzle. If the nozzle is too close or water pressure is applied for long periods, it may cause deformation or damage to the hard plastic parts.
- Do not use electric or air tools to apply wax or compound (polishing powder). Otherwise, friction heat will be generated causing deformation or damage to the hard plastic parts.