Part Number: PT938-12230-02

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Spoiler
2	1	LH Bracket Adapter
3	1	RH Bracket Adapter
4	1	Hardware Kit

Hardware Kit Contents

Item #	Quantity Reqd.	Description
1	5	M6 x 1 x 10 Hex head bolt
2	4	M5 x 0.8 x 30 Hex head bolt
3	6	Snap Clip with Gasket

Additional Items Required for Installation

Item #	Quantity Reqd.	Description
1	1	Center Spoiler Drill Template
2	1	Stanchion Drill Template (LH)
3	1	Stanchion Drill Template (RH)
4	2	Ø50mm Interior Cover (P/N 90333-48001)

Conflicts

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Cut Resistant Gloves	
Blankets	
Masking Tape	2” wide
Special Tools	**Notes**
Installation Tools	**Notes**
Swivel/Wobble Extension	1/4” drive
Flex Teardrop Ratchet	1/4” drive
Magnetic Socket and Extension	10 mm Short & Deep Well, 8 mm Short Well, 6” & 3” extension
Torque Wrench	0-100 in-lbs
Panel Clip Removal Tool	Panel Pry Tool # 1
Shop Vacuum	
Hole Saw Arbor	For hole size 20mm
Impact Driver	Drill Bit Sizes: 6mm, 8mm, 9mm, 10mm
Hammer Drill	
Center Punch	Spring Loaded
Utility Knife	
Special Chemicals	**Notes**
Cleaner	Facility Approved Cleaner

General Applicability

All Toyota GR Corolla Hatchback Models

Recommended Sequence of Application

Item #	Accessory
2	LH Bracket Adapter
3	RH Bracket Adapter
1	Spoiler

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		

Legend

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

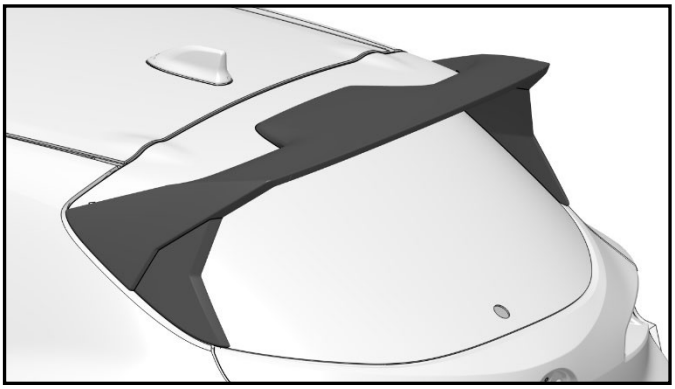
OPERATOR SAFETY: Use caution to avoid risk of injury.

CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.

REVISION MARK: This mark highlights a change in installation with respect to previous issue.

SAFETY TORQUE: This mark indicates that torque is related to safety.



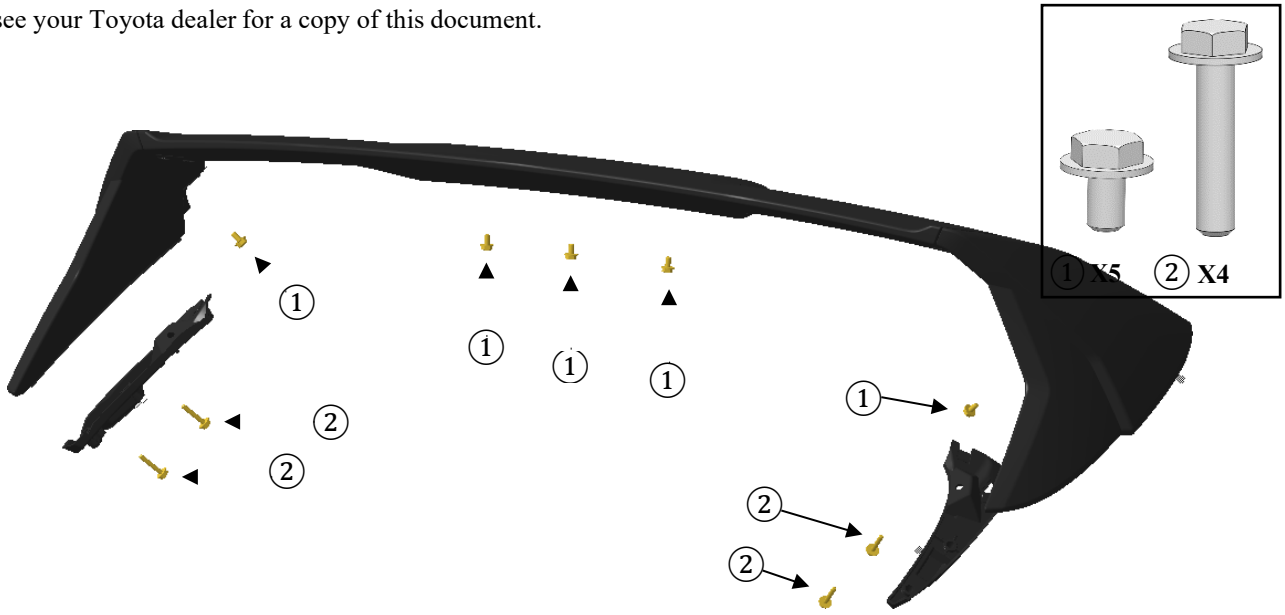
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the “Accessory Installation Practices” document.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.



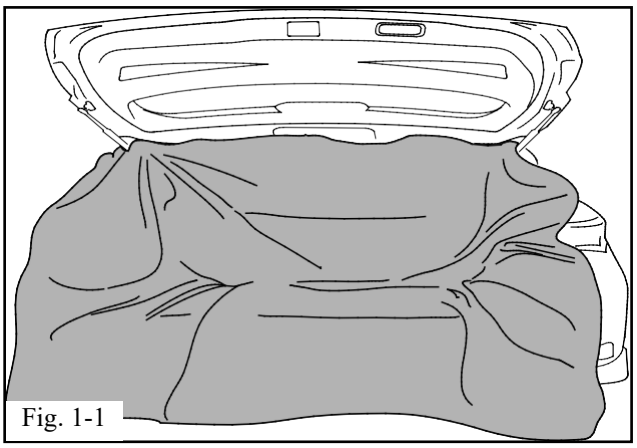


Fig. 1-1

1. Vehicle Preparation

(a) Installation of the rear spoiler should not take place until the following have been completed:

(1) Car wash completed.

(2) The trunk lid and rear spoiler should be a minimum of 60˚F(16˚C) for proper set-up of adhesive tape. Use a hot air blower to heat the surface if the temperature is below 60˚F(16˚C).

(b) Open the trunk lid, detach the tonneau/luggage cover and place blankets to protect the vehicle (Fig. 1-1).

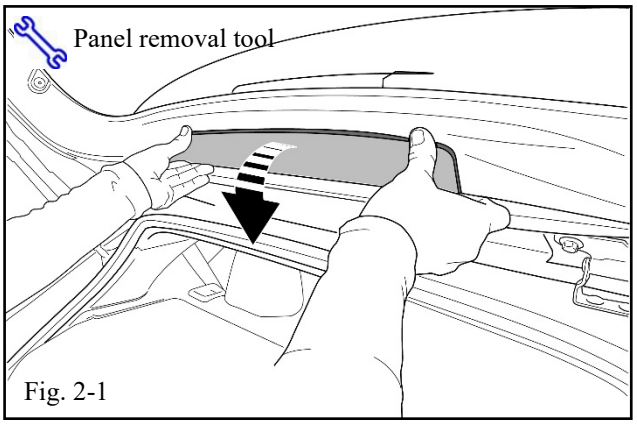
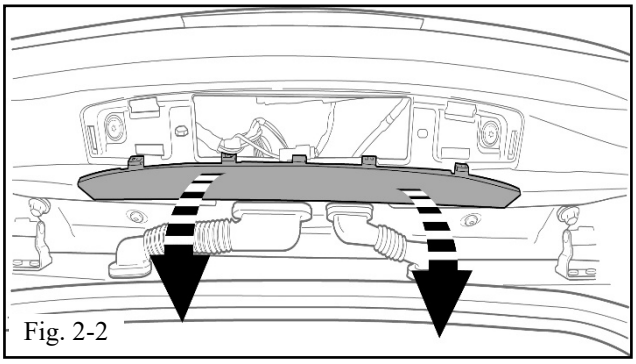


Fig. 2-1

2. Remove Trim Panel

(a) Place tape around the surrounding area of the trim panel and disengage the 4 claws and 4 clips and release the trunk lid upper trim panel assembly (Fig. 2-1).


Fig. 2-2

(b) Drop the trim panel to expose the inside area of the trunk lid (Fig. 2-2).

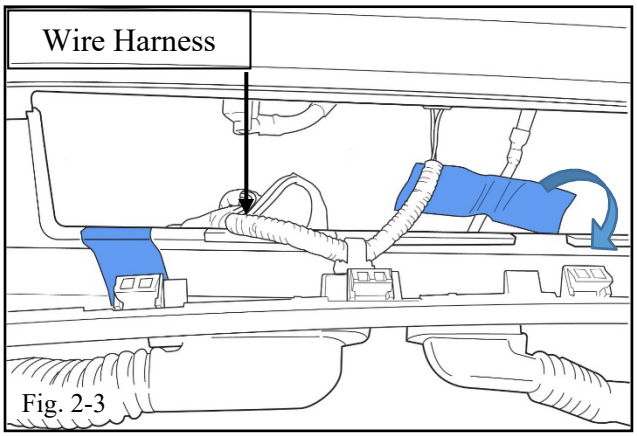


Fig. 2-3

(c) Disengage the wire harness clip and tape the wire harness and washer fluid line away from the OE spoiler against the trim as shown (Fig. 2-3).

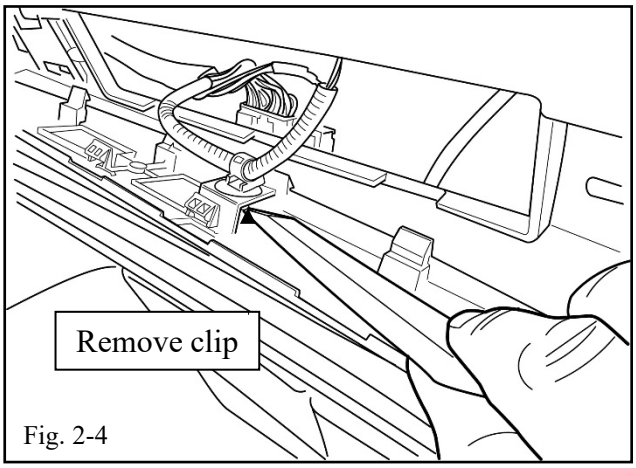
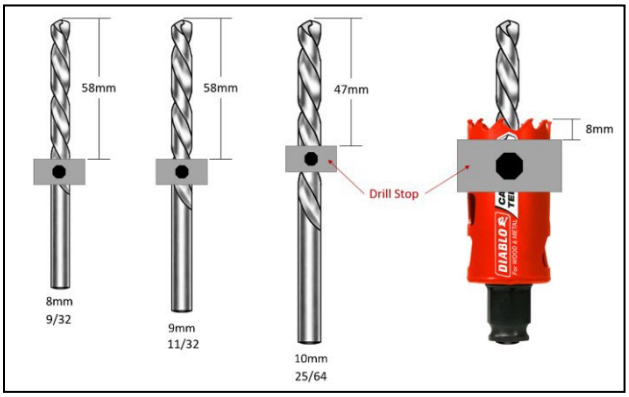


Fig. 2-4

(d) Disengage the 2nd wire harness clip using a trim removal tool on the underside of the clip (Fig. 2-4).

3. Drill Stanchion Bolt Locations



(a) Before beginning to drill, ensure that all bits have collars placed at the indicated distances to ensure no damage happens to the vehicle.

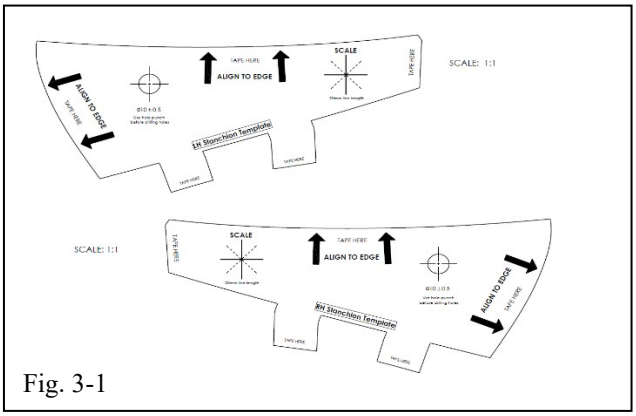
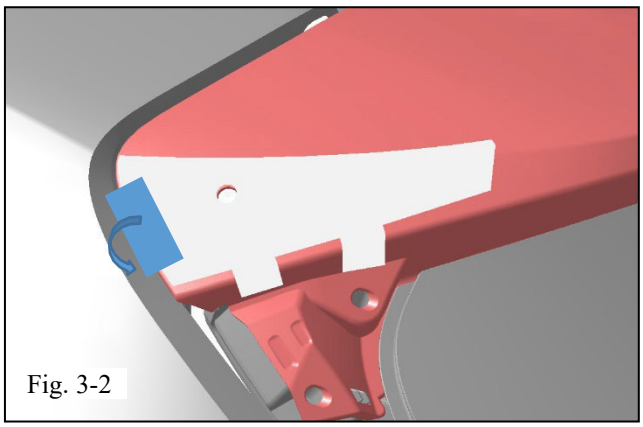
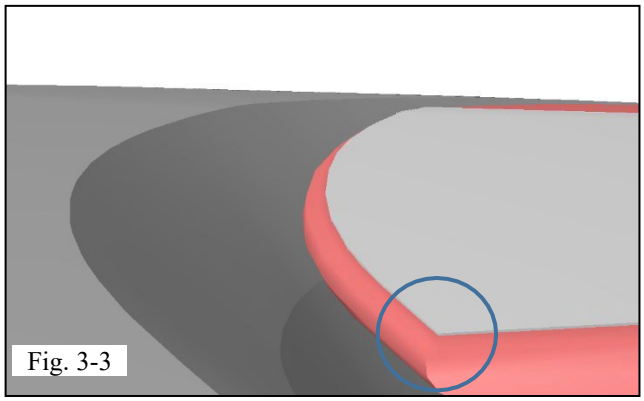


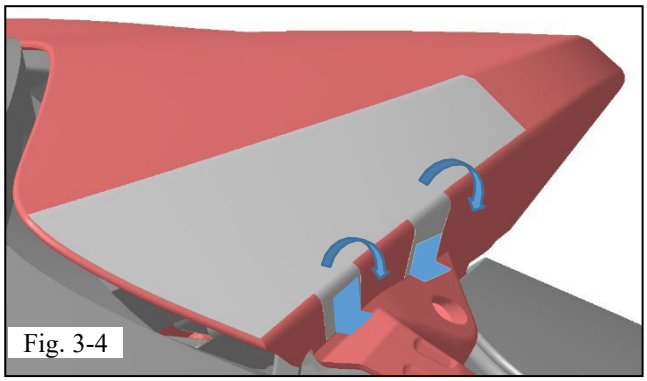
Fig. 3-1

(b) Print off the provided drill template for the LH Stanchion on A3 size paper and cut out the template (Fig. 3-1). Validate that the template is the correct size by measuring the scale. When cutting out the template, cut along the black outline. Do not cut around the black outline as this may cause the template to be misaligned when used.

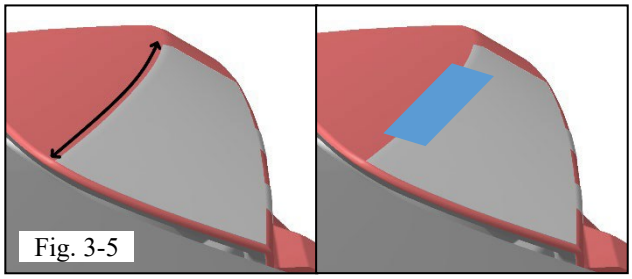

Fig. 3-2


Fig. 3-3

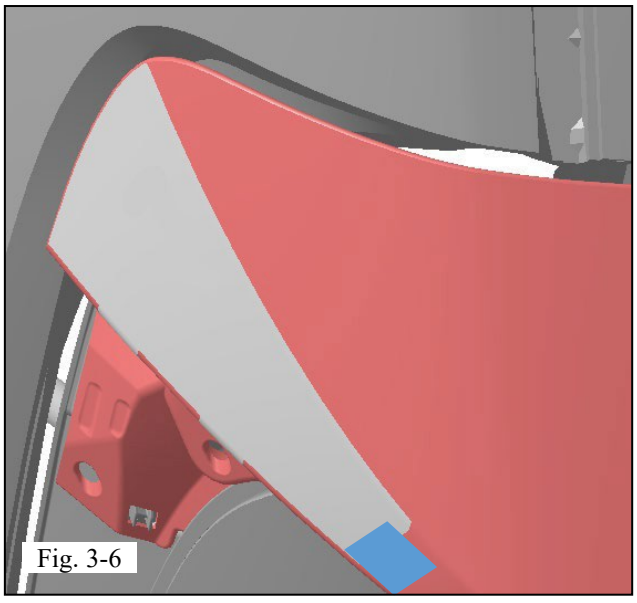
(c) Line up the outside edge of the LH Stanchion drill template to the outside edge of the OEM spoiler (Fig. 3-2). The edge of the template should line up to the beginning of the round edge (Fig. 3-3). Ensure that the bottom corner of the template is in the correct position and does not pass over the curved edge. (Fig. 3-3). Apply tape to the “TAPE HERE” location (Fig. 3-2), folding the tape over the edge so that the template is attached to the OEM spoiler.


Fig. 3-4

(d) Fold over the two small tape tabs so that they are flush with the respective corners below the tabs (Fig 3-4). Once flush, apply tape to the “TAPE HERE” locations to secure the tabs.


Fig. 3-5

(e) Ensure that the top edge of the template follows the curvature of the OEM spoiler. This edge of the template should fold over the curve of the OEM spoiler surface and meet the edge of the flat surface. Once it is lined up, apply tape to the “TAPE HERE” location (Fig. 3-5).


Fig. 3-6

(f) Apply tape to the final “TAPE HERE” location that is furthest from the first alignment location (Fig. 3-6).

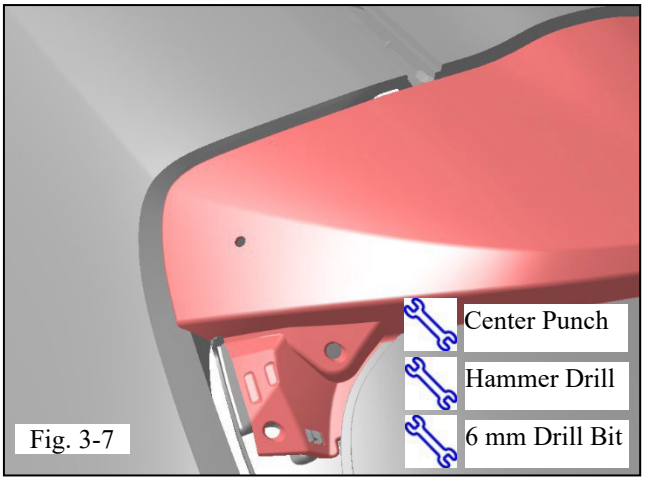


Fig. 3-7

(g) Use a center punch at the center of the crosshair location on the template to locate the hole. Then, remove all tapes and remove the template from the OEM spoiler. Using a 6 mm drill bit, drill a pilot hole at the punch location (Fig 3-7).

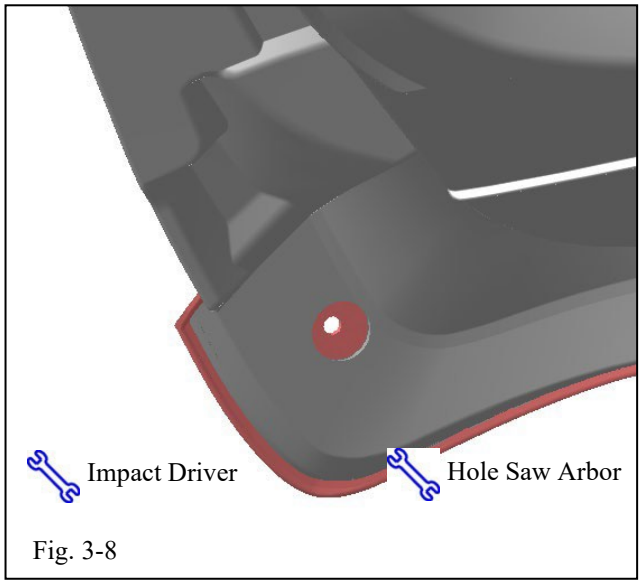


Fig. 3-8

(h) Open the trunk lid. Take a hole saw arbor of at least 20 mm diameter to at most 30 mm diameter and adjust the collar to be approximately 8 mm from the teeth of the hole saw. Using the hole saw, cut the clearance hole using the pilot hole as a guide from the inside of the trunk lid (Fig 3-8). Cut inside of trunk lid only.

NOTE: There may be leftover filler material within the clearance hole. Use a utility knife to clear the remaining material. Wear cut resistant gloves. Be careful not to cut through the outer surface.

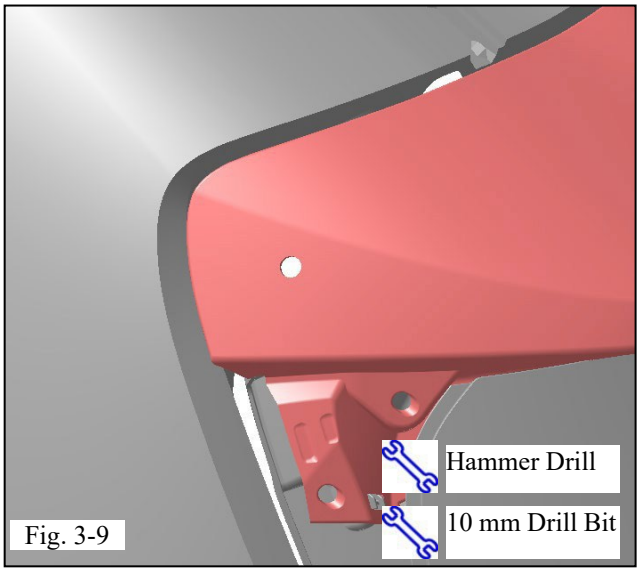


Fig. 3-9

(i) Drill through the existing pilot hole with a 10 mm drill bit from outside the trunk lid (Fig. 3-9).

NOTE: Imperial drill bit sizes of 3/8”, 25/64” and 13/32” will also suffice.

(j) Repeat step 3 (a) to (h) for the RH Stanchion.

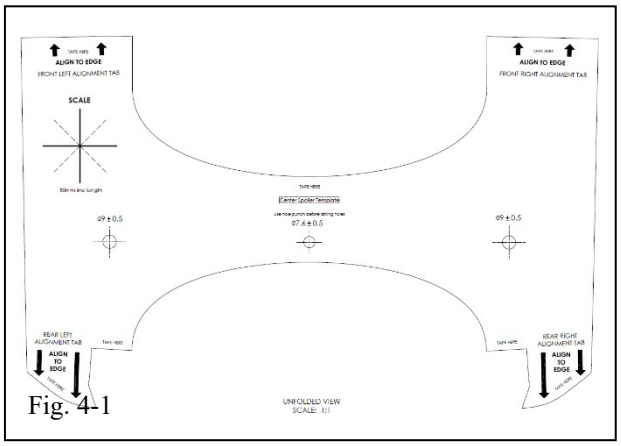
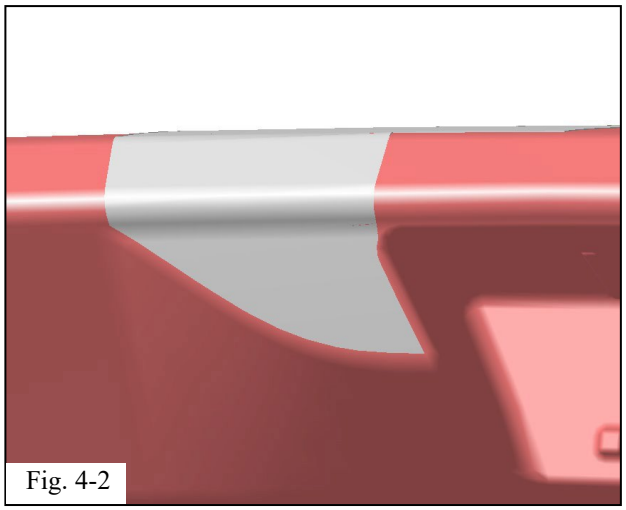
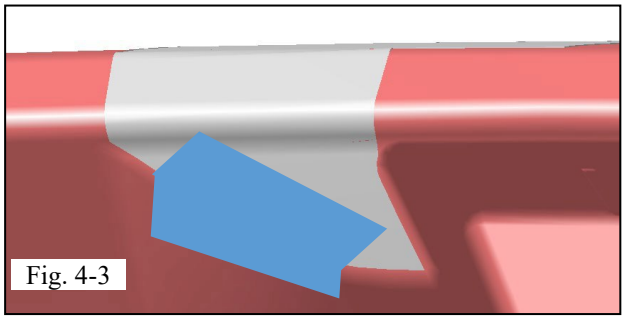
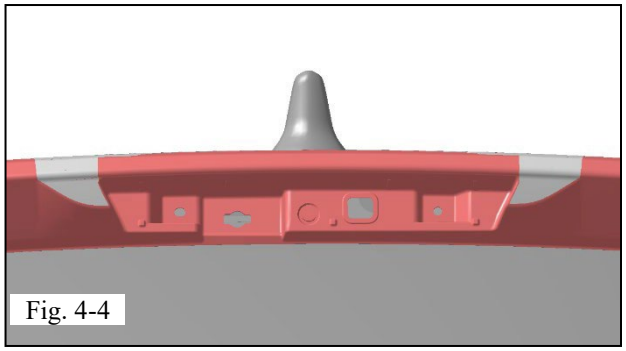


Fig. 4-1


Fig. 4-2


Fig. 4-3

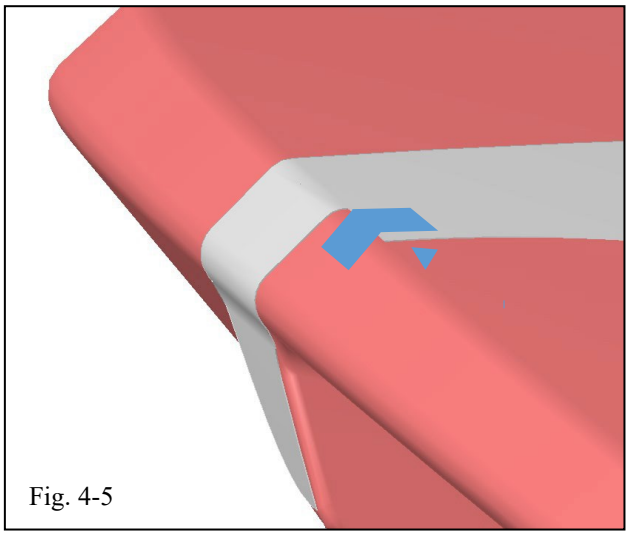

Fig. 4-4

4. Drill Center Spoiler Bolt Locations

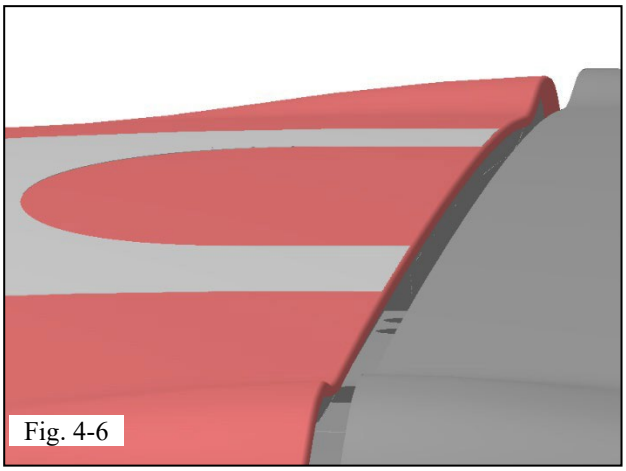
(a) Print off the provided drill template for the Center Spoiler on A3 size paper and cut out the template (Fig. 4-1). Validate that the template is the correct size by measuring the scale. When cutting out the template, cut along the black outline. Do not cut around the black outline as this may cause the template to be misaligned when used.

(b) Place a small piece of masking tape on both rear alignment tabs, folding the tape slightly so that it does not make contact with the vehicle surface while aligning the template.

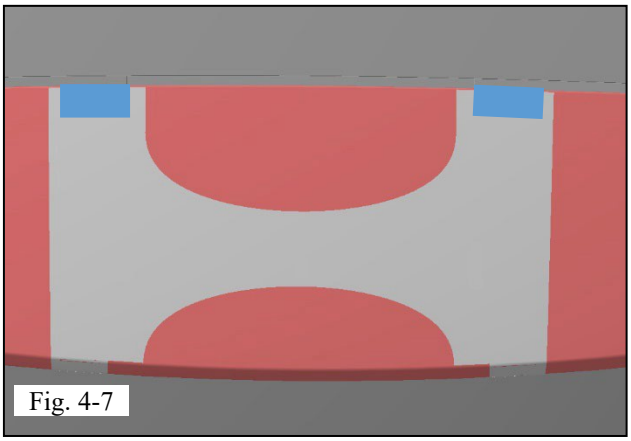
⚠ (c) Lay the template flat about the center of the OEM spoiler. Line up the rear left alignment tab to the vehicle surface edge left of the CHMSL feature (Fig. 4-2). The edge of the template should line up to the beginning of the round edges local to the tab. It is important that the template is not on top of the curved edges. Unfold the tape and place it against the vehicle surface to hold the template once aligned (Fig. 4-3). Repeat this process for the rear right alignment tab (Fig. 4-4).


Fig. 4-5

(d) The shoulders of the rear alignment tabs should line up with the edge of the OEM spoiler before the rounded shape begins. Apply tape at both the left and right "TAPE HERE" locations once aligned. (Fig. 4-5).


Fig. 4-6

(e) Lightly pull the template flat against the OEM spoiler to ensure that there is no space between the template and vehicle surface. Confirm that the front alignment tabs line up with the edge of the OEM spoiler before the rounded shape begins (Fig. 4-6). Apply tape at the "TAPE HERE" location on the LH front alignment tab. Apply tape at the "TAPE HERE" location on the RH front alignment tab (Fig. 4-7).


Fig. 4-7

(f) Use a center punch at the center of each crosshair location on the template to locate the hole. Then, remove all tapes and the template.

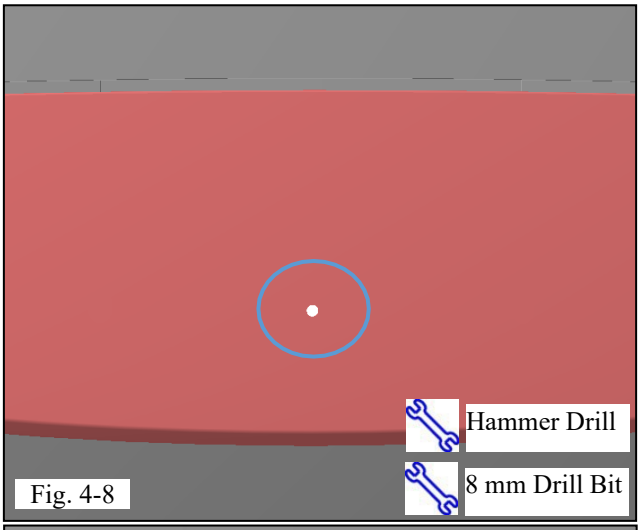


Fig. 4-8

(g) Use an 8 mm drill bit to drill a hole at center bolt location (Fig 4-8).

NOTE: Imperial drill bit sizes of 5/16” and 19/64” will also suffice.

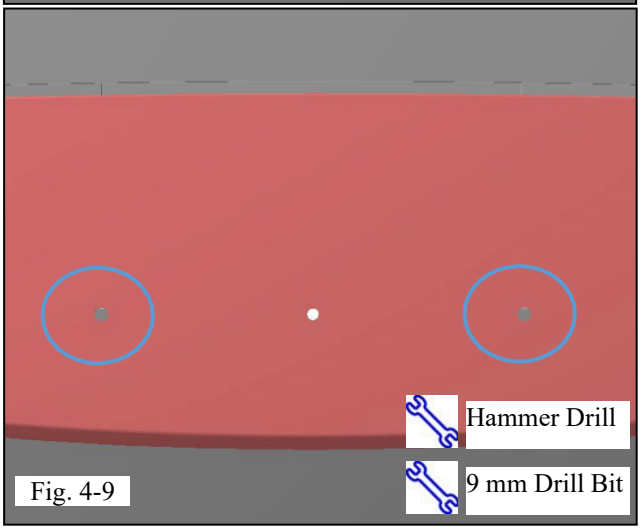
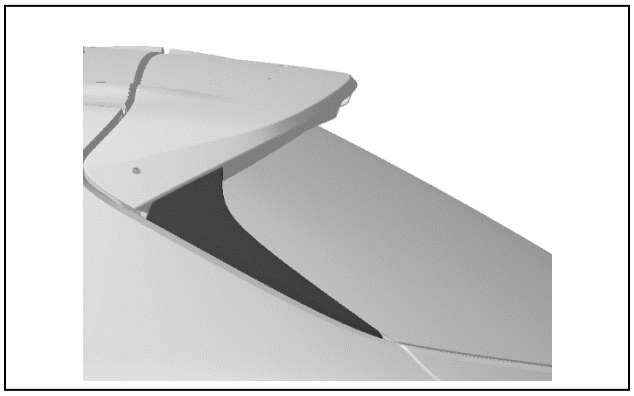


Fig. 4-9

(h) Use a 9 mm drill bit to drill the holes left and right of the center bolt location (Fig. 4-9).

NOTE: Imperial drill bit sizes of 11/32”, 23/64” and 3/8” will also suffice.

(i) Clean any debris from the drilling surface.



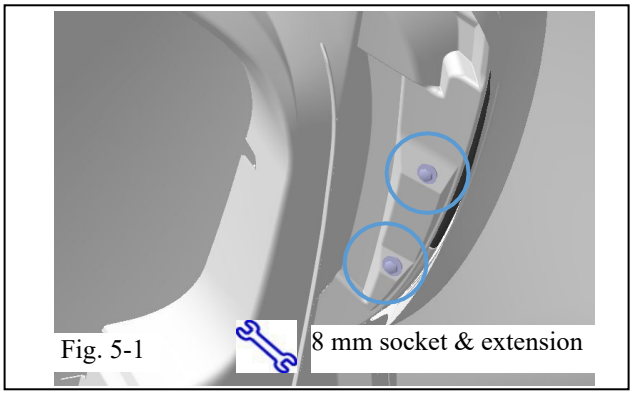


Fig. 5-1

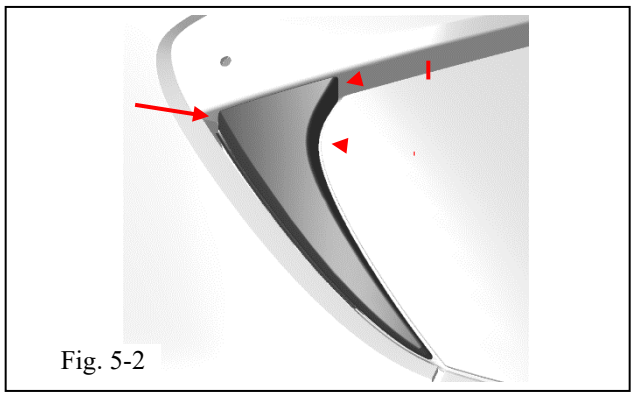


Fig. 5-2

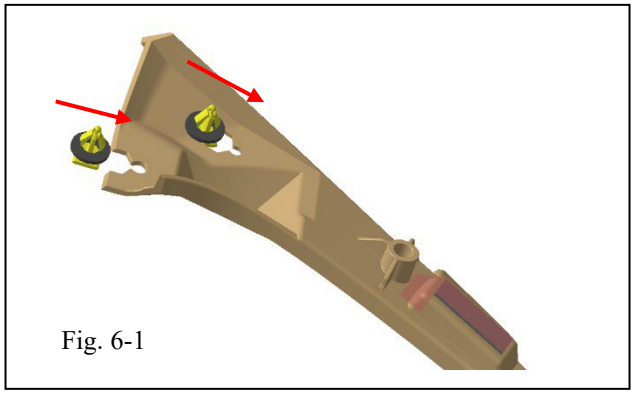


Fig. 6-1

5. OE Cover Removal

(a) Open the trunk lid. Locate the 2x 8 mm hex head bolts on each side of the vehicle that attach the cover. Remove these bolts from each side. LH side of the trunk shown (Fig. 5-1).

(b) Close the trunk. Using the panel pry tool, disengage the upper locating features of the covers on each side of the vehicle to remove the panel from the decklid. Pry at the highlighted areas, LH side shown (Fig. 5-2).

6. Bracket Installation

(a) Take two (2) clips with gaskets and install them onto the LH bracket by pushing them through the neck of the groove as shown (Fig. 6-1). Successful installation is often accompanied by a “snapping” sound as the clip is pushed through the neck of the groove.

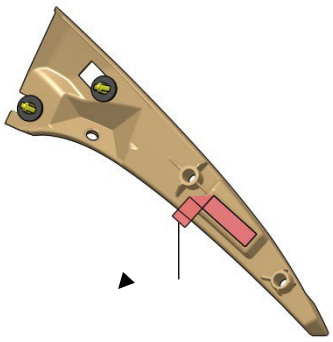


Fig. 6-2

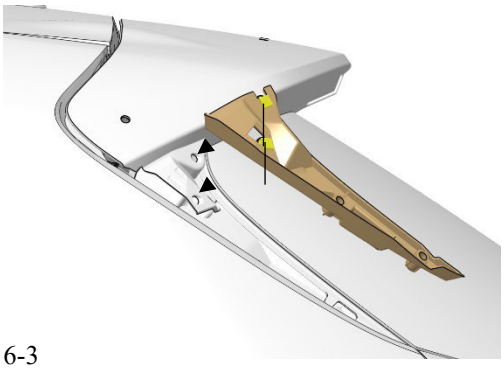


Fig. 6-3

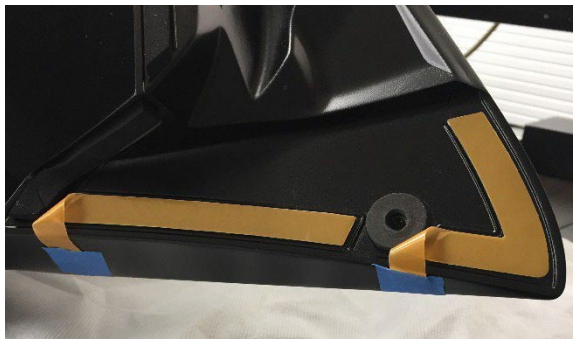


Fig. 7-1



Fig. 7-2

(b) Starting from the tab pull to remove the tape liner from the LH bracket assembly (Fig. 6-2).

NOTE: Do not touch or make surface contact with the tape at this time.

(c) Starting from the middle clip, press downwards on the bracket over each clip to engage them in their respective trunk lid holes (Fig. 6-3). Successful engagement is often accompanied by a “popping” sound. The downwards pressure applied in this step also serves to adhere the tape in the centre area of the bracket to the trunk lid.

(d) Repeat step 6 (a) to (c) for the RH bracket assembly.

7. Spoiler Installation

(a) Peel back all tape liners slightly and use masking tape to secure them to the outer perimeter of the spoiler. This is done to ensure that they do not slip underneath the spoiler during installation (Fig. 7-1, Fig. 7-2, Fig. 7-3, Fig. 7-4).

(b) The trunk lid where the spoiler attaches must be cleaned with a facility approved cleaner – preferably isopropyl alcohol – using a lint free cloth.



Fig. 7-3

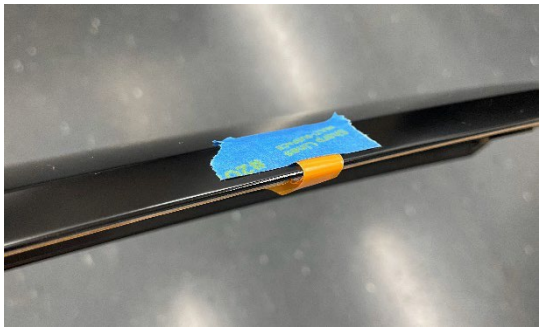
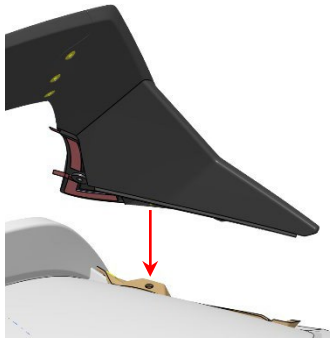
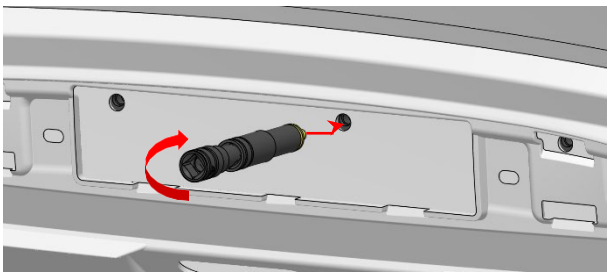

Fig. 7-4


Fig. 7-5


Fig. 7-6

(c) Install provided plastic clips on both sides of the spoiler. Place the spoiler on the trunk lid and carefully align and position the plastic clips (located on the spoiler) to the hole location located on LH and RH bracket assembly (Fig. 7-5 and Fig. 7-6). Successful engagement is often accompanied by a "popping" sound.



10 mm socket & extension

Fig. 7-7

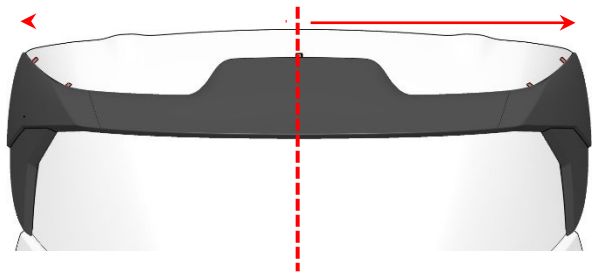


Fig. 7-8

10 mm socket & wobble extension

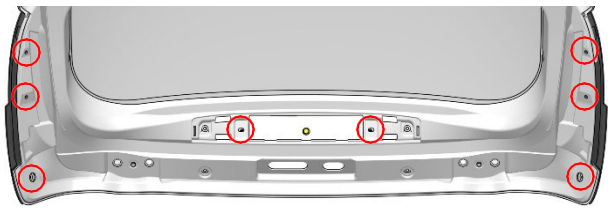


Fig. 7-9

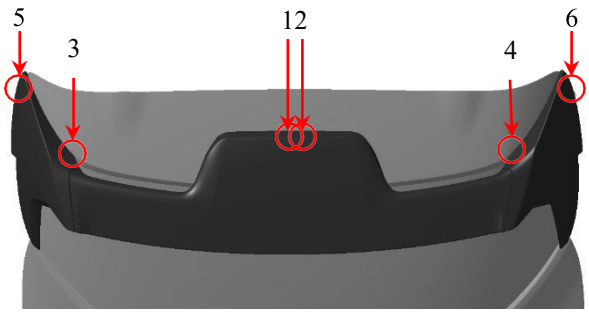


Fig. 7-10

(d) Open the trunk lid and loosely hand tighten the center M6 10 mm bolt onto the over molded nut on the spoiler (Fig. 7-7). A 10 mm socket with extension can be used to hand tighten the bolt.

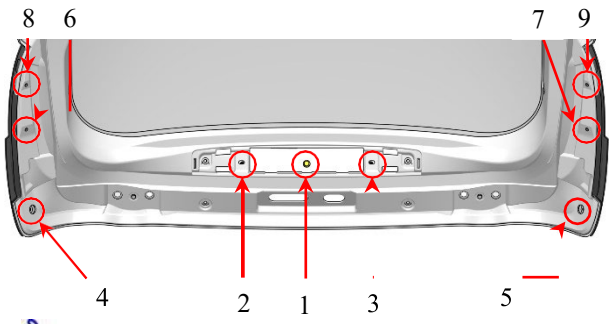
NOTE: Because the spoiler is not completely secured, it may rest away from the vehicle. The spoiler may need to be lightly pulled or pushed into position to line up the nut with the drilled hole.

(e) Close the trunk lid and carefully shift the spoiler as needed so that it is centered left to right (Fig. 7-8).

(f) Slowly open the trunk lid again and loosely hand tighten the remaining two (2) center M6x1.0 10 mm bolts, the two (2) outer M6x1.0 10 mm bolts, and the four (4) outer M5x0.8 30 mm bolts onto the over molded nuts on the spoiler (Fig. 7-9). A 10 mm socket with a wobble extension can be used to hand tighten the remaining two center bolts.

(g) Verify that the spoiler is centered to the trunk lid. Push forward on the spoiler and begin removing the tape liner in the sequence shown (Fig. 7-10). After tape tabs 1 and 2 are removed, push forward, and push down on the center spoiler area to adhere the tape.

(h) Remove tape liners 3 to 6 and push forward and down to adhere the tape at these tape locations moving outward from the center of the spoiler (Fig. 7-10).



10 mm socket + wobble extension + ratchet

Torque wrench

Fig. 7-11

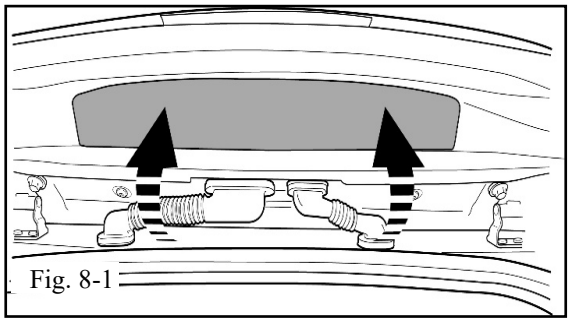


Fig. 8-1

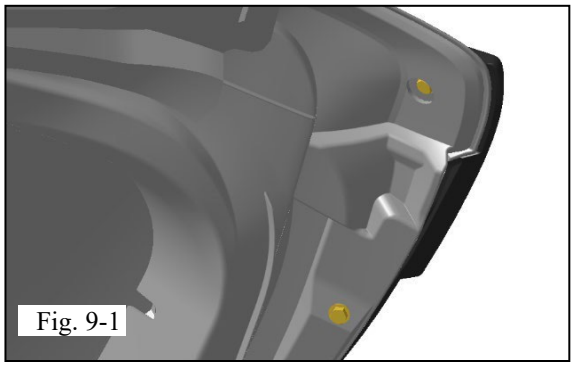


Fig. 9-1

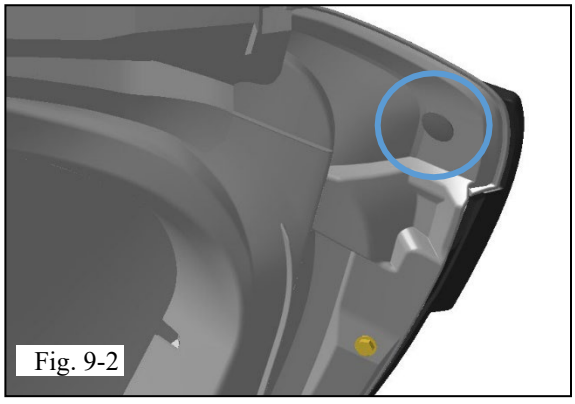


Fig. 9-2

(i) **NOTE**: The tape liners can tear prematurely if too much force is used. Use caution when pulling the tape line from the spoiler edges to prevent tearing of the tape liner.

(j) From the underside of the trunk lid, tighten fasteners 1-5 to 7 Nm (62 in-lbs), then tighten fasteners 6-9 to 5 Nm (44 in-lbs). The fasteners should be tightened from the center outward, beginning with the center M6 bolts, followed by the two (2) outer M6 bolts, and then followed by the four (4) outer M5 bolts (Fig. 7-11).

(k) Close the trunk lid and apply pressure to the topside of the spoiler a second time to ensure all the tape is adhered to the trunk lid.

8. Reinstall the Inner Panel

(a) Open the trunk lid.

(b) Remove the tape from the wire harness and washer fluid line.

(c) Re-engage the wire harness and trim panel clip.

(d) Engage the 4 claws and 4 clips and reinstall the trunk lid upper trim panel assembly (Fig. 8-1).

(e) Clean all trim surfaces and re-attach the tonneau/luggage cover.

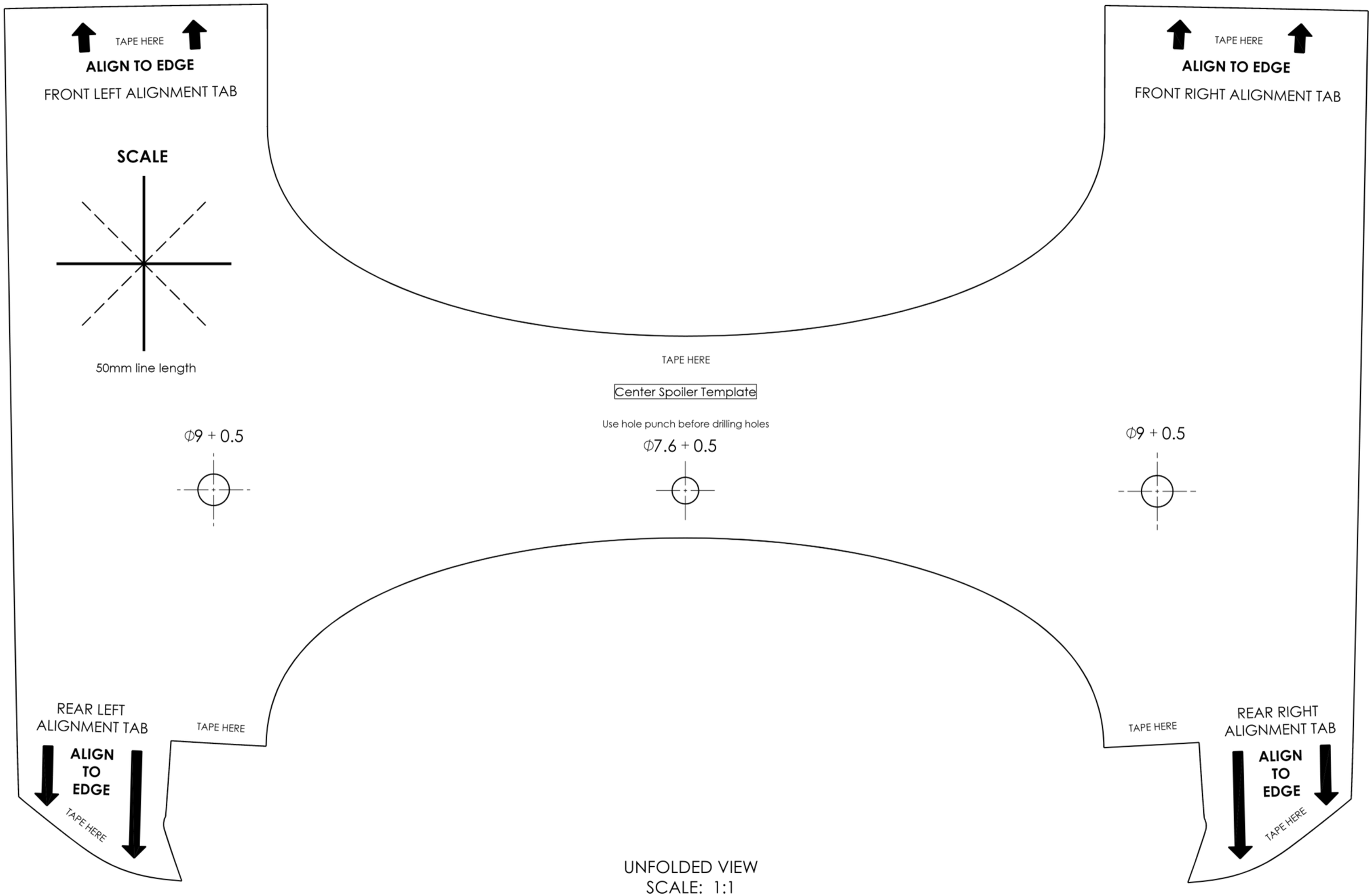
9. Apply Interior Covers

(a) Apply the interior covers over each of the holes drilled on each side of the vehicle in Step 3 (g). LH Side shown (Fig. 9-1 and Fig. 9-2).

(b) Close the trunk lid.

Checklist - these points **MUST** be checked to ensure a quality installation.

Check:	Look For:
Accessory Function Checks ☐ Check for visual alignment. ☐ Check for full tape adhesion. ☐ Measure gaps according to part general assembly drawing.	The spoiler should appear visually centered on the vehicle. Max allowable gap between vehicle and spoiler is 2mm.
Vehicle Function Checks ☐ Verify trunk lid operation. ☐ Verify CHMSL operation.	When opened, the trunk lid should initially pop up fully and remain in the raised position. Ensure light operation when pressing on the brake pedal.
Vehicle Appearance Check ☐ After accessory installation, perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process.


TAPE HERE
ALIGN TO EDGE
FRONT LEFT ALIGNMENT TAB
SCALE
50mm line length
TAPE HERE
ALIGN TO EDGE
FRONT RIGHT ALIGNMENT TAB
TAPE HERE
Center Spoiler Template
Use hole punch before drilling holes
Φ9 + 0.5
Φ7.6 + 0.5
Φ9 + 0.5
REAR LEFT ALIGNMENT TAB
TAPE HERE
ALIGN TO EDGE
TAPE HERE
TAPE HERE
REAR RIGHT ALIGNMENT TAB
ALIGN TO EDGE
TAPE HERE
UNFOLDED VIEW
SCALE: 1:1

