

CorkSport Performance

AXO-8-821-1X Hatchback Spoiler

Installation Instructions for the CorkSport Performance Spoiler for the 2019+ Mazda 3 Hatchback.

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INTRODUCTION

In this installation guide we have provided step by step instructions to remove the OEM hatch trim panel, prep it for install, and install the CorkSport Performance Spoiler.

Advisory:

- Installation of this spoiler is somewhat difficult and requires drilling into your OEM hatchback trim for proper installation. Please read through the instructions before beginning and seek professional installation if you are not comfortable completing these steps.
- If you already have the OEM aero kit spoiler installed, the CorkSport spoiler will use the same mounting holes. These instructions are written assuming you do not have the OEM spoiler, however, notes are included throughout to help owners that have the OEM spoiler.

TOOLS:

- [1/4" Ratchet](#) (1)
- [10mm Socket - Deep](#) (1)
- [Assorted Plastic Interior Trim Removal Tools](#) (1)
- [Heat Gun](#) (1)
- [Micro Fiber Towel](#) (5)
- [1/8" Drill Bit](#) (1)
- [1/4" Drill Bit](#) (1)
- [3/8" Drill Bit](#) (1)
- [Cordless Power Drill](#) (1)
- [Masking Tape](#) (1)
- [Glass Cleaner/Degreaser](#) (1)
- [Loctite, Blue](#) (1)

PARTS:

- [CorkSport AXO-8-821-2X Spoiler](#) (1)
- [CorkSport Spoiler Hardware Kit](#) (1)

Step 1 — Getting Started



- First and foremost; **THANK YOU** for becoming a part of the CorkSport Family. We hope to bring you the highest level of Parts, Customer Service, & Support
- ① **How To Use These Instructions:** The instruction format will relate colored marking in the image to the color dot in the text to the right of the image

Step 2 — Removing the Cargo Cover



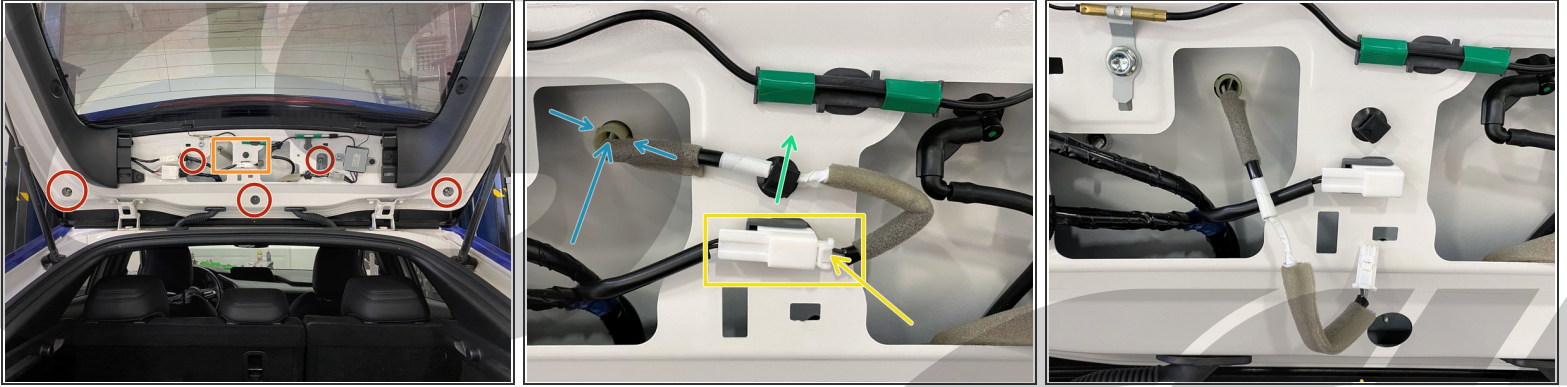
- i** The CorkSport Spoiler mounts to the OEM rear hatch trim. The trim must be removed and holes drilled in order for proper install
- The section to remove is shown in the first image
 - Begin by opening your hatch and removing the cargo cover
 - Unclip the support strings
 - Remove the cargo cover and set it aside
 - We recommend placing a towel over the hatch latch to keep the hatch from closing all the way while working

Step 3 — Removing Center Trim Panel & Hardware Covers



- Remove the center trim section by pulling towards you. There are a number of clips that will pop loose. Clip locations are circled in the first image
- Remove the three soft plastic hardware covers
 - Using a plastic trim removal tool as shown will prevent scratches on your hatch

Step 4 — Unbolting Hatchback Trim & Unplugging Third Brake Light



- Remove the five 10mm nuts that secure the hatchback trim to the hatch
 - ⚠ These nuts can easily fall into the hatch and be difficult to remove. Use a magnet during removal to help prevent this
- Locate the 3rd brake light wiring in the center of the hatch
- Unplug the white wiring connection from the vehicle side harness. It has a small tab on the end that can be pushed in to release the connector
- Remove the 3rd brake light wiring from the retaining clip
- Squeeze the sides of the tan clip and push the wiring into the hatch trim piece as shown
- Your 3rd brake light wiring should now look like image 3

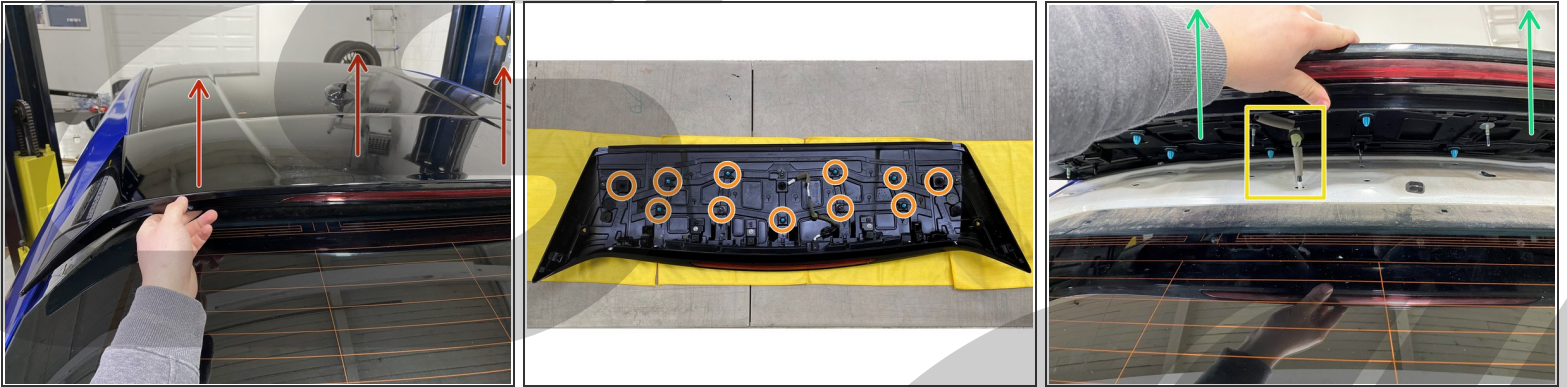
Step 5 — Removing the Hatchback Trim Part 1



⚠ Releasing the corners of the trim as explained below is the most difficult part of the install. It takes a surprising amount of force for the clips to release. We include replacement clips as some tend to break during removal

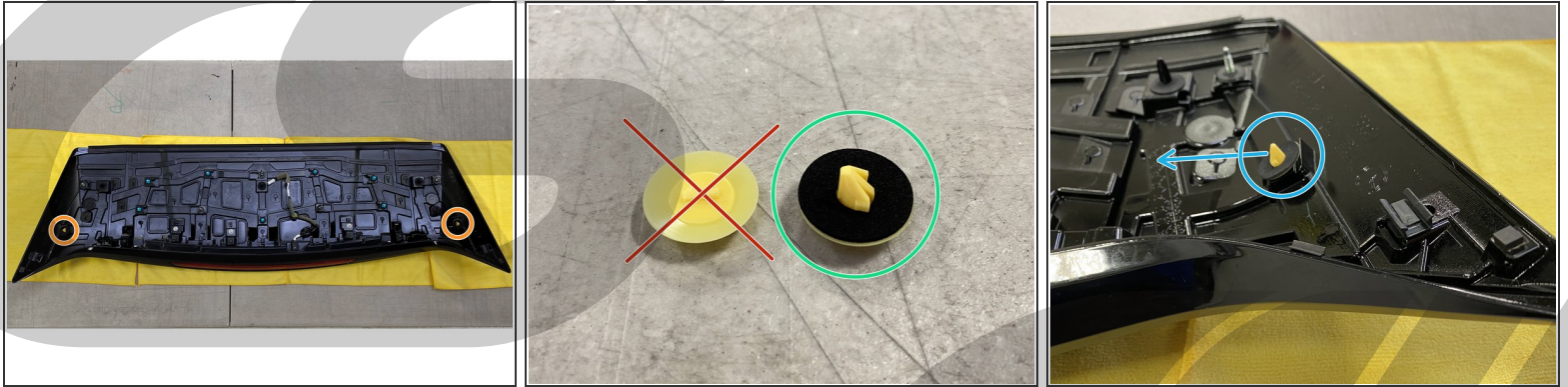
- Using a heat gun or hair dryer, heat up the corner of the spoiler for 30-60 seconds. The goal is to get heat underneath the hatch trim to warm up a few plastic clips so they are easier to release
- ⓘ If using a heat gun, use the "low" setting. If using a hair dryer, use the "high" setting.
- ⓘ Keep the heat gun/hair dryer moving to prevent excess heat on one area of window and/or hatch trim
- For reference, the second image shows the clips that will need to release
- Once 30-60 seconds have passed pull upwards on the corner of the hatchback trim with a good amount of force. Use gloves if the corner is too hot for your hands
- The clips typically release rapidly and the corner should pop upwards slightly as shown
- Repeat these steps for the other corner of the hatchback trim

Step 6 — Removing the Hatchback Trim Part 2



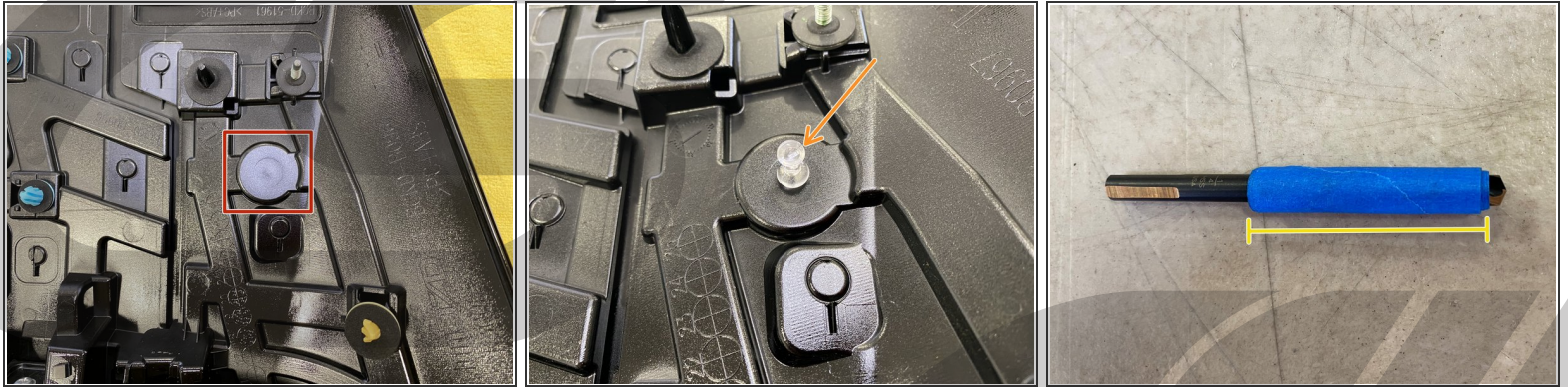
- Once both corners of the hatch trim have popped free, lift the center of the hatch trim on either side of the brake light. There are a number of other clips that must release
 - The remaining clips are shown for reference in the second image
- Once the clips are free, guide the brake light wiring through the hatch
- The hatch trim can then be removed from the vehicle

Step 7 — Inspecting the OEM Hatch Trim Clips



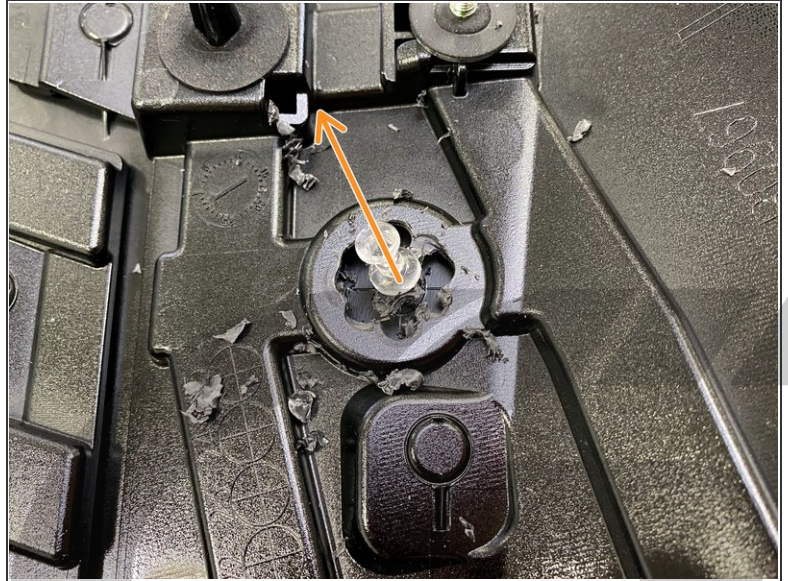
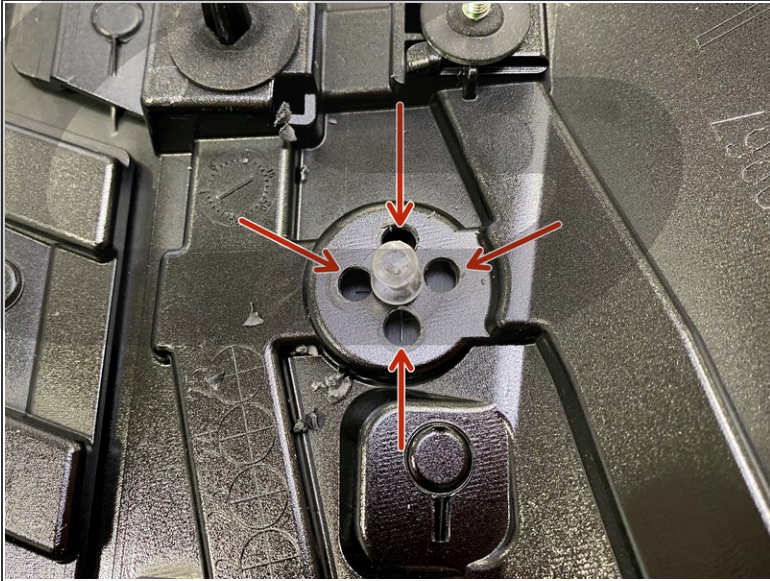
- Layout some microfiber towels to protect the hatch trim. The piano black is easy to scratch
- Place the hatch trim upside-down on the towels as shown
- Inspect the yellow clips on the outside of the hatch trim. These clips commonly break during hatch trim removal
 - ⓘ The second image shows a broken vs. intact clip
- If needed, replace broken clips with the supplied new clips. They only install one direction, with the angled face pointing towards the center of the hatch trim

Step 8 — OEM Hatch Trim Modification Part 1



- Locate the flat round surfaces near the yellow clips replaced in the last step. There is one on each side of the spoiler
- ⓘ If you already have an OEM aero kit spoiler, these locations will be drilled out and bolts will be present. Remove these bolts and remove the OEM adhesive tape to remove your OEM aero kit spoiler
- ⚠ There are two layers of plastic in this area. The inner layer will need to be cut away without damaging the outer layer. Follow the next steps very carefully to prevent damage to your spoiler.
- Place a thumbtack in the center of the "ring" that is visible in these flat areas. This will help keep the center from falling inside the hatch trim
- Using some masking tape or similar, wrap a 1/4" drill bit many times, only leaving the very tip of the drill bit exposed as shown
- ⓘ There is only ~3/16" between the inner and outer layers of the spoiler. The tape will prevent the drill from sinking too deep and damaging the outer layer

Step 9 — OEM Hatch Trim Modification Part 2

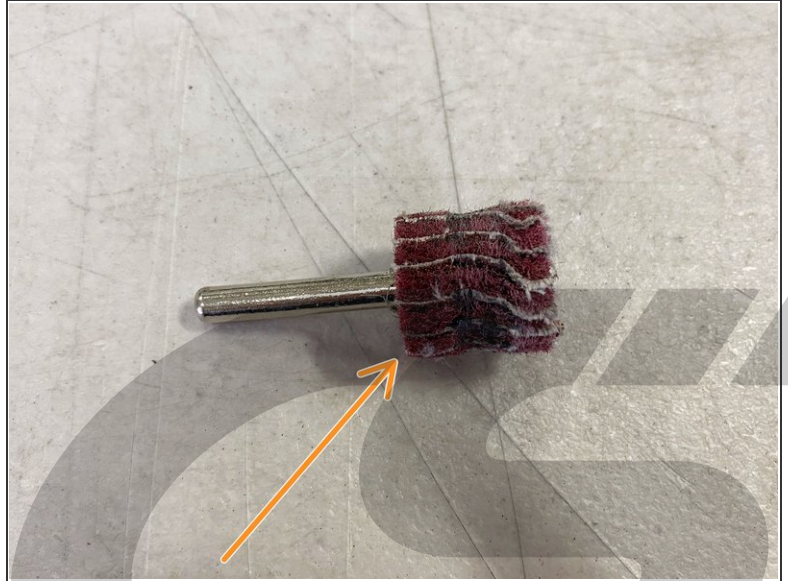
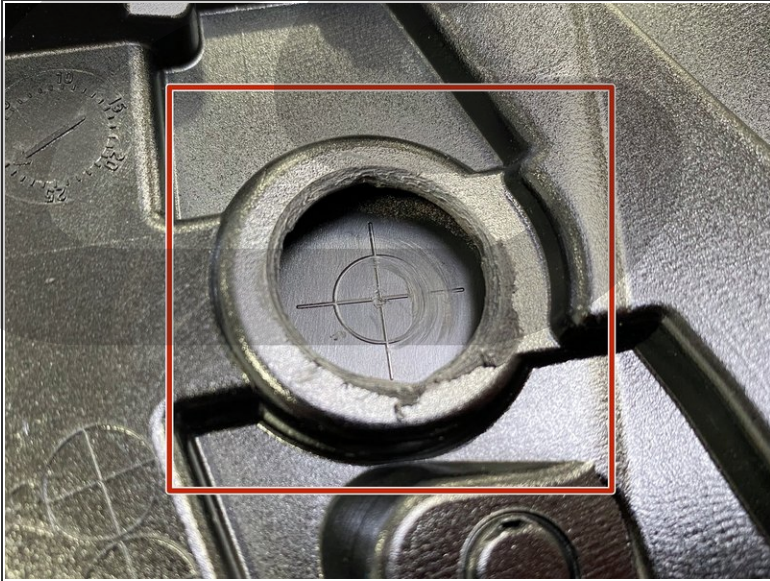


- Using your prepared drill bit, drill around the thumb tack until the middle can be removed

⚠ Use caution to prevent the outer layer from being damaged. Adjust the tape on your drill bit if needed

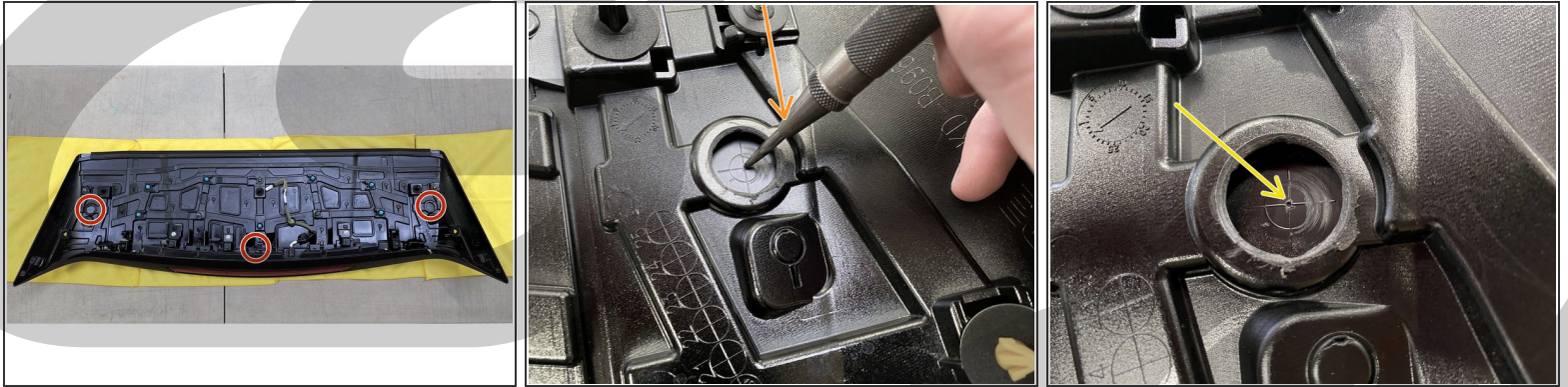
- Remove the thumbtack and the center plastic piece

Step 10 — OEM Hatch Trim Modification Part 3



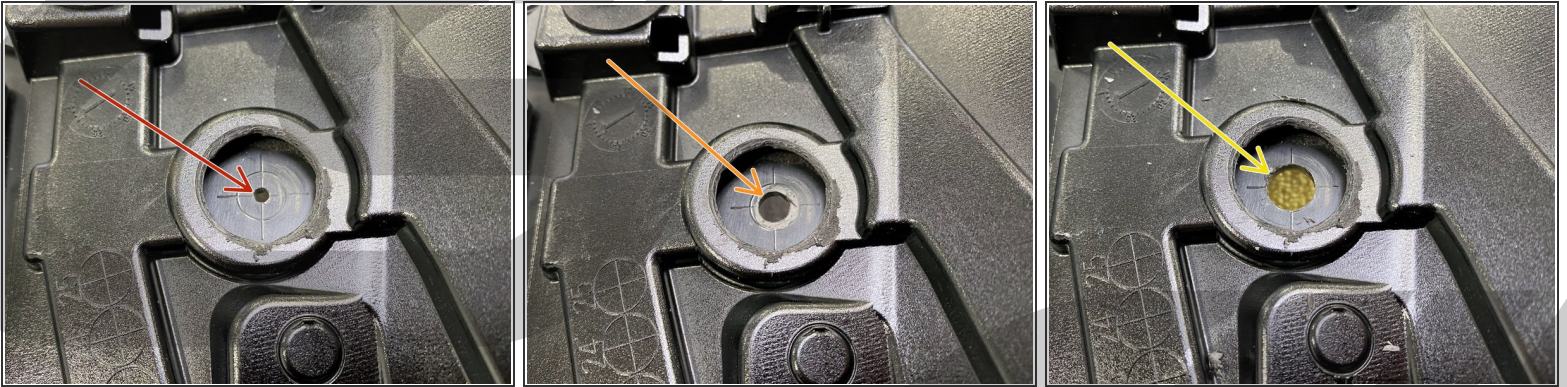
- Cleanup the hole using a file, sandpaper, or other methods
- ⓘ You should easily be able to see a crosshair that marks the location we will be drilling in the next steps
- We found a 1" Scotch Brite wheel on a drill works really well to clean up the holes
- Repeat Steps 8-10 for the other side of the OEM hatchback trim

Step 11 — OEM Hatch Trim Modification Part 4



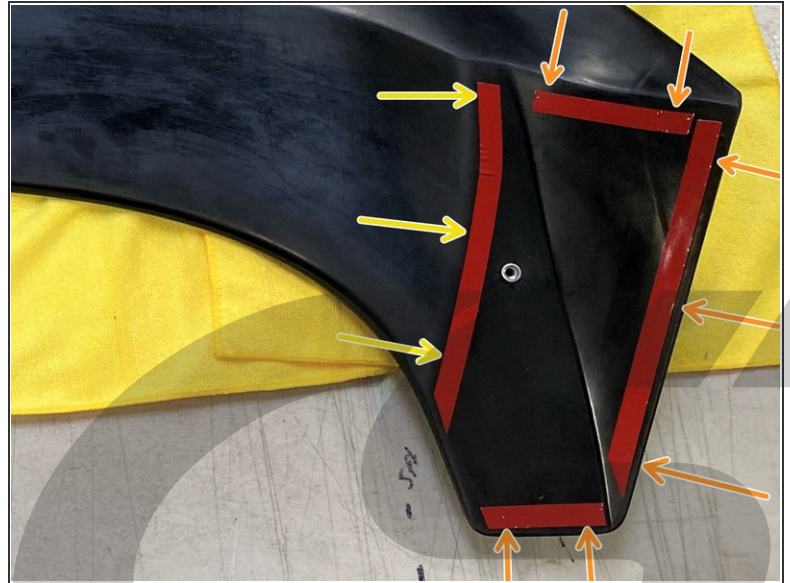
- You will need to drill holes in the three "crosshairs" that are now visible. Two on the outside that were uncovered, and one near the center
- Using a automatic center punch or similar, mark the center of each of the three crosshairs to provide a location for a drill bit to start
- After completion, the crosshairs should appear like the third image

Step 12 — OEM Hatch Trim Modification Part 5



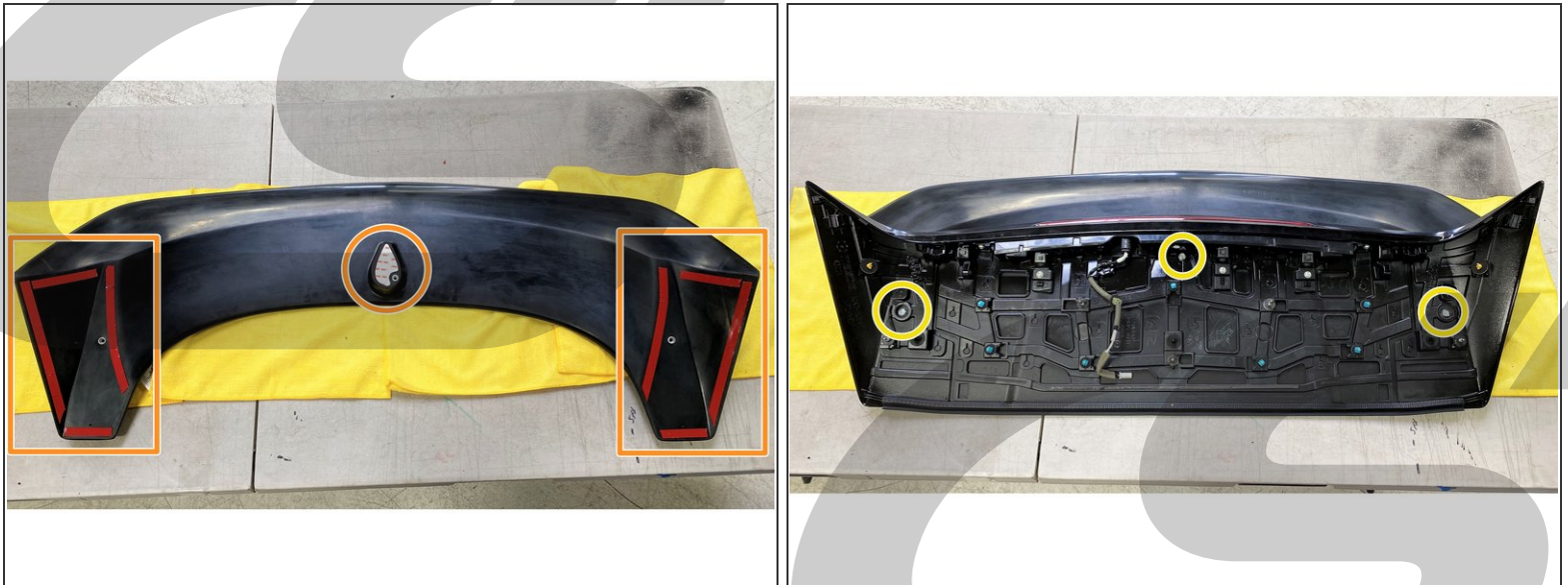
- Using a 1/8" drill bit, drill holes in the center of each of the three crosshairs
 - Repeat this process with a 1/4" drill bit
 - Repeat this process with a 3/8" drill bit
 - Once completed, remove any burrs from the edges of the holes and vacuum up all plastic shavings
- ⓘ Each of the cross hairs has a small circle, after drilling is complete, the hole should approximately fill this small circle
- ⓘ Occasionally the outer surface of the hatch trim may "chip" near the drilled holes. Drilling slowly and putting some masking tape over the hole locations before drilling can help. Worst case if chipping occurs, you will not be able to see it with the CorkSport spoiler installed

Step 13 — Applying 3M Tape to CS Spoiler



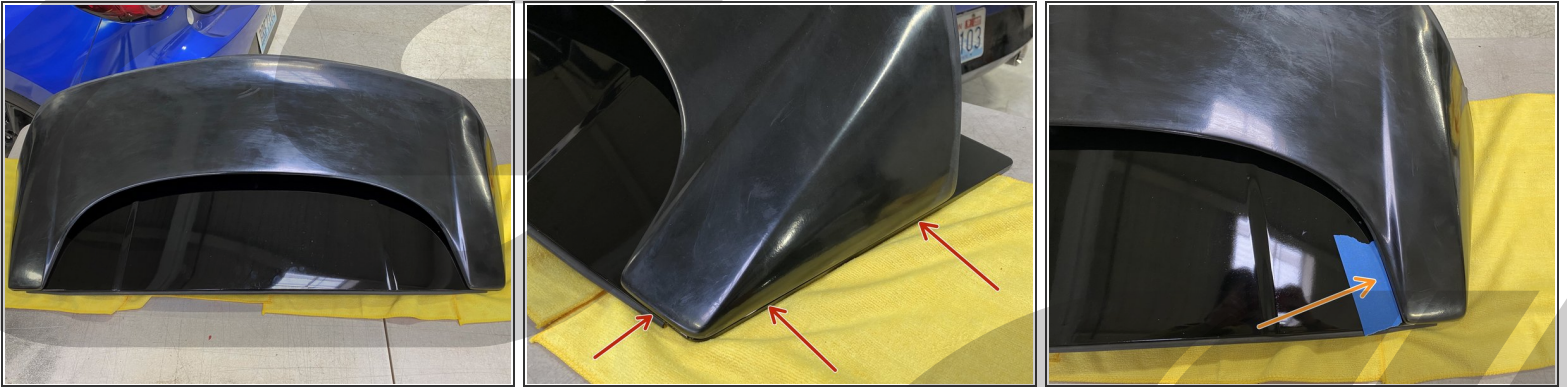
- Place your CorkSport spoiler onto your table face down as shown
- Locate the center support sticker in the hardware kit supplied with your spoiler
- Install the center support sticker onto the center support of your CS spoiler as shown
- Apply the supplied 3M adhesive tape to each outer mounting surface as shown. We recommend approximately 1/4" away from the outer edges as shown to minimize tape visibility once installed
- ⓘ Avoid the sharp bends in the spoiler for best tape adhesion & fitment
- Apply the 3M adhesive tape to the inner mounting surface edge. For best adhesion and minimal visibility, the tape should be approximately 3/8" from the curved edge of the spoiler in this area
- ⓘ These sections of tape should clear the outermost mounting bolt locations by ~1/4"
- ⓘ Curving this section of tape slightly will yield the best results

Step 14 — CS Rear Spoiler Install Part 1



- Verify your CorkSport spoiler has adhesive mounting tape installed as shown & explained in the previous step
 - ⓘ We used an unpainted FRP spoiler for installation images. It will be wrapped later. If you have an FRP spoiler, please paint or wrap your spoiler before install
 - Place the OEM hatch trim on top of the CS spoiler and loosely secure with the three supplied bolts through the holes drilled earlier
- ⚠ Do not yet remove the backing from the mounting tape**

Step 15 — CS Rear Spoiler Install Part 2



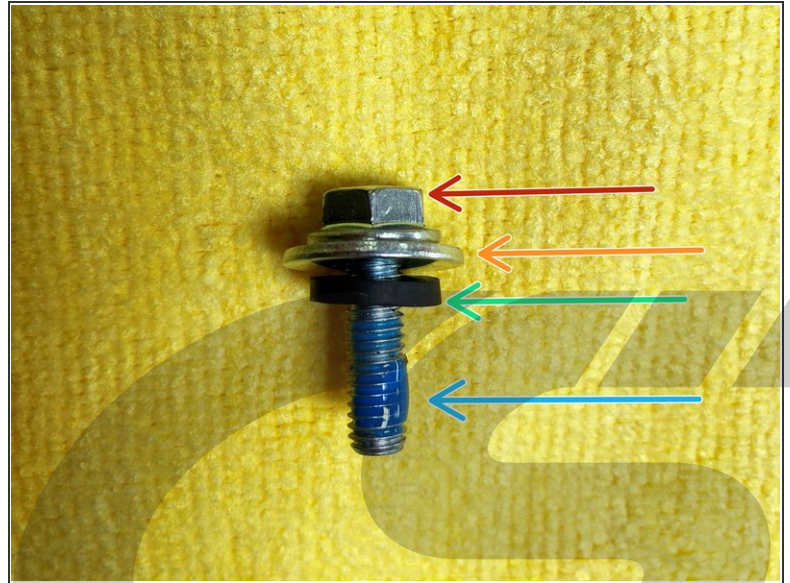
- Flip the CS spoiler and hatchback trim over so it is sitting as shown.
- Shift the CorkSport spoiler around until it is centered and aligned on the OEM hatchback trim
- Once happy with position, use some masking tape to mark the locations of the edges of the CorkSport spoiler on each side

Step 16 — CS Rear Spoiler Install Part 3



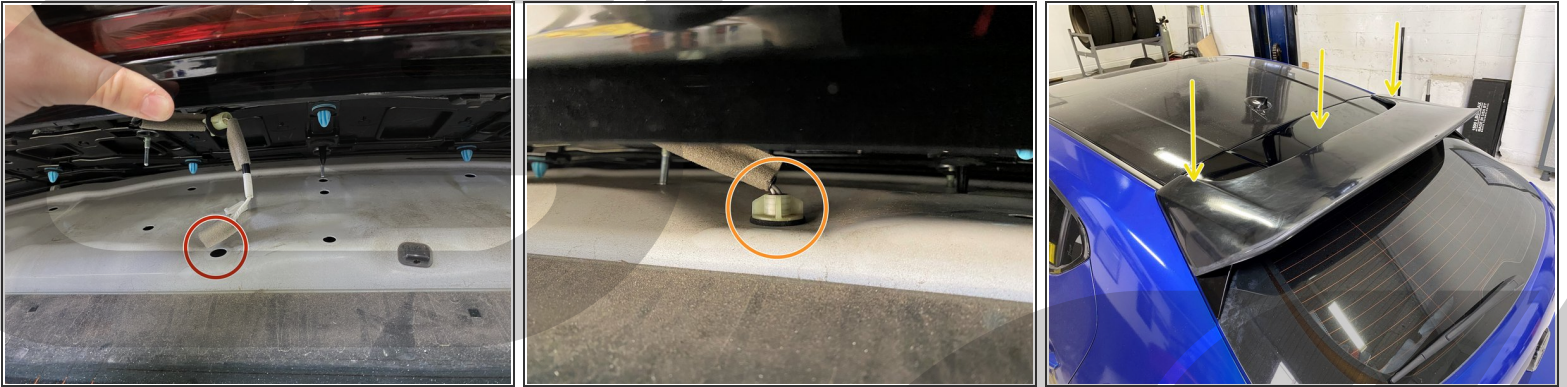
- Remove the 3 bolts attaching the spoiler to the hatchback trim and position the parts as shown
 - Remove the backing from the mounting tape
 - Using a friend to help, apply the CorkSport spoiler onto the OEM hatchback trim.
 - ⓘ Use the outer edges of the hatchback trim & your tape from the previous step as a guide
- ⚠ The mounting tape is very sticky, do not push the spoiler against the hatch trim until you are 100% sure the spoiler is positioned correctly**
- Push the spoiler against the hatchback trim to secure it for the next step
 - ⓘ You do not need to fully secure the tape, the mounting bolts used in the next step will finish securing the tape

Step 17 — CS Rear Spoiler Install Part 4



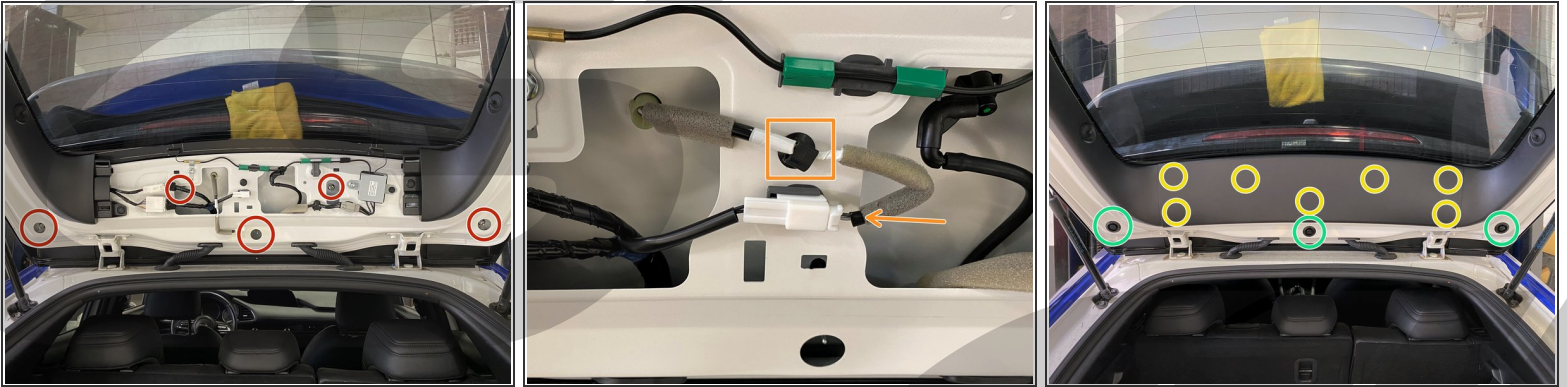
- Carefully flip the spoiler & hatchback trim back over as shown
- Secure the spoiler to the hatchback trim using the supplied hardware in the arrangement shown:
 - M6x1.0 Flange Bolt
 - M6 18mm OD Washer
 - M6 Rubber Washer
 - Blue Threadlocker
- Tighten the three bolts into the CS spoiler until snug (approximately 4-7ft-lbs.)

Step 18 — Installing Hatchback Trim & CS Spoiler Part 1



- Lift the OEM hatchback trim & CS spoiler assembly into position
- Do not yet set it down as the brake light wiring must be fed through the hole shown
- The brake light wiring will clip into the hatch as shown
- The hatchback trim & CS spoiler assembly can now be set down & pushed downwards to engage the retaining clips


Step 19 — Installing Hatchback Trim & CS Spoiler Part 2



- Open the hatch and secure the OEM hatchback trim with the five 10mm nuts removed earlier. Tighten until snug (4-7ft-lbs.)
- Reconnect the brake light wiring and route the wires through the retaining clip like before
- Reinstall the main hatch trim panel. It will snap into position with clips in approximate locations circled
- Reinstall the three access hole covers
- Reinstall the cargo cover removed earlier

Step 20 — Installation Complete



- This completes your installation of the CorkSport Performance Spoiler!
-  Verify no noises or vibrations after your first drive.
- Contact us with any questions or concerns at sales@corksport.com or (360) 260-2675.
- Please leave a review here: <https://corksport.com>
- Share your experience using #CorkSport on Instagram, Facebook, and Twitter.