VW MK7 GTI/Golf R
Functional Aerodynamic Rear Wing Kit
Installation Instructions - Click HERE to Shop

Skill Level 2
- Moderate -

Some Experience Recommended

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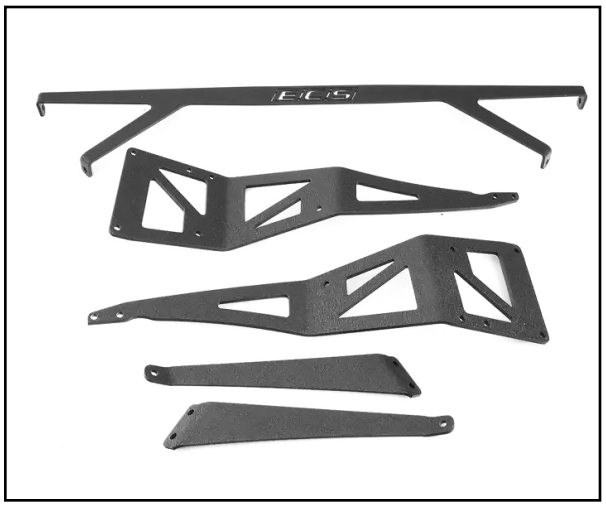
KIT CONTENTS



Chassis Mounted Uprights

Carbon Fiber Wing, Brackets & Side Blades

Mounting Brackets & Hardware

REQUIRED TOOLS

Note: The tools required for each step will be listed by the step number throughout these instructions.

Standard Automotive Tools

- Protecta-Sockets (for lug nuts) ..... ES#2221243
- **⅜" Drive Ratchet** ..... ES#2765902
- ⅜" Drive Torque Wrench ..... ES#2221245
- **⅜" Drive Deep and Shallow Sockets** ..... ES#2763772
- **⅜" Drive Extensions** ..... ES#2804822
- Hydraulic Floor Jack ..... ES#2834951
- **Torx Drivers and Sockets** ..... ES#11417/8
- ½" Drive Deep and Shallow Sockets ..... ES#2839106
- ½" Drive Ratchet
- ½" Drive Extensions
- ½" Drive Torque Wrench ..... ES#2221244
- ½" Drive Breaker Bar ..... ES#2776653
- Bench Mounted Vise
- Crows Foot Wrenches
- **Hook and Pick Tool Set** ..... ES#2778980

Required For This Install

- **¼" Drive Ratchet** ..... ES#2823235
- **¼" Drive Deep and Shallow Sockets** ..... ES#2823235
- **¼" Drive Extensions** ..... ES#2823235
- Plier and Cutter Set ..... ES#2804496
- **Flat and Phillips Screwdrivers** ..... ES#2225921
- Jack Stands ..... ES#2763355
- Ball Pein Hammers
- Pry Bar Set ..... ES#1899378
- **Electric/Cordless Drill**
- Wire Strippers/Crimpers
- **Drill Bits**
- Punch and Chisel Set
- Hex Bit (Allen) Wrenches and Sockets ..... ES#11420
- Thread Repair Tools ..... ES#1306824
- **Open/Boxed End Wrench Set** ..... ES#2765907

Available On Our Website

Specialty Tools

- **Trim Removal Tool Kit** ..... ES#517779
- **Rivnut Installation Tool Kit** ..... ES#4487724
- **Automatic Center Punch** ..... ES#1899402
- **Die Grinder w/ Cutoff Wheel**

INSTALLATION NOTES

- **RH** refers to the ***passenger side*** of the vehicle.
- **LH** refers to the ***driver side*** of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.

NEVER get underneath a vehicle that is supported only by a jack, and ALWAYS make sure that the vehicle is securely supported on jack stands.

REMOVING THE HATCH SPOILER

Step 1: Trim Removal Tool

Open the rear hatch and remove the two plastic tail light access panels (arrows).

Step 2: Trim Removal Tool

Carefully pull the upper plastic panel (arrow) free from the hatch and set it aside.

REMOVING THE HATCH SPOILER

Step 3: Trim Removal Tool

Carefully pull each side plastic panel (arrow) free from the hatch and set it aside.

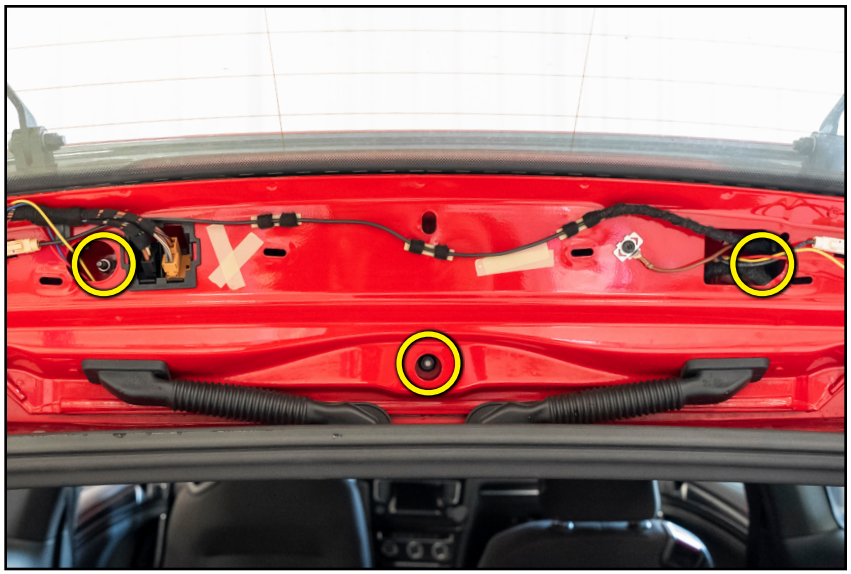
Step 4: T25 Torx, Trim Removal Tool

Remove the four screws (arrows) which secure the lower plastic panel to the hatch, then carefully pull the panel free and set it aside.

REMOVING THE HATCH SPOILER

Step 5: 10mm Socket & Ratchet

Remove the three nuts (circled in **YELLOW**) which secure the spoiler to the hatch.



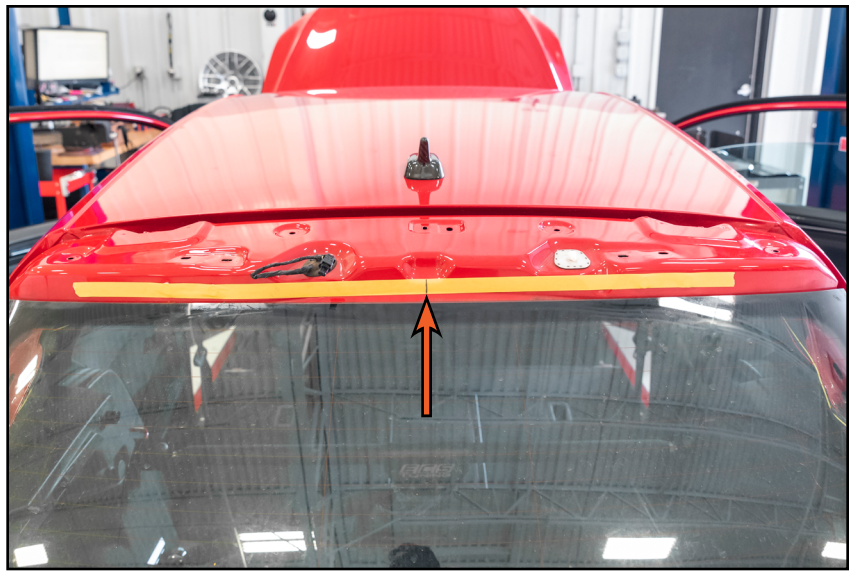
Step 6: Trim Removal Tool, Angled Pick

Carefully pull the spoiler free from the hatch, then disconnect the wiring harness and the washer fluid hose (highlighted in **GREEN**).

INSTALLING THE REAR WING KIT

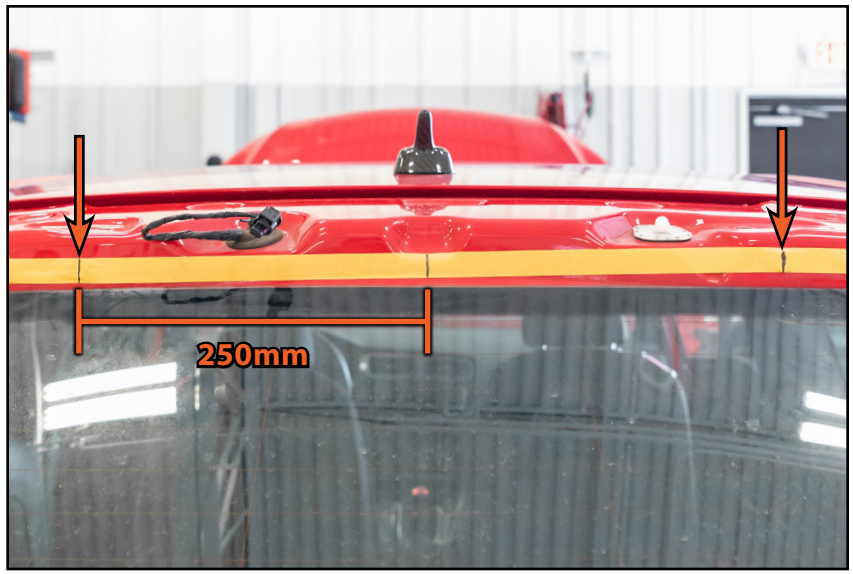
Step 1: Masking Tape, Marker

Place a piece of masking tape along the top of the hatch just above the rear glass as shown, then mark the center of the vehicle with a line (arrow).



Step 2: Marker

Starting at the center line, measure out 250mm in either direction and make a line (arrows).



INSTALLING THE REAR WING KIT

Step 3: Marker

Measure from the top of the glass up 15mm (photo 1) and make a horizontal line which intersects each of the lines we just made (photo 2).

Step 4: Center Punch, 11mm Drill Bit, Drill

Use a center punch to mark the center of the intersecting lines, then drill a hole at this location using a 11mm drill bit. Be sure to apply paint to the exposed metal to prevent corrosion.

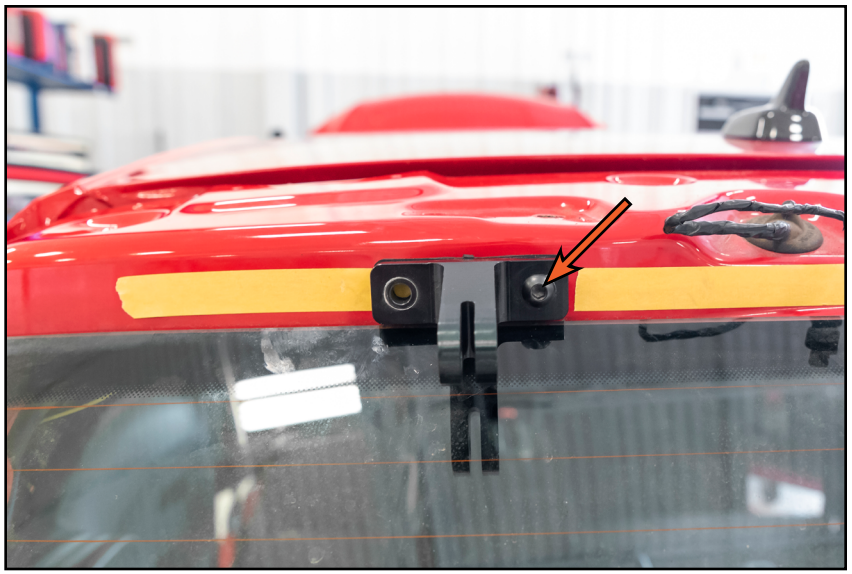
INSTALLING THE REAR WING KIT

Step 5: Rivnut Installation Tool

Peel away the tape surrounding the hole we just drilled, then install one of the provided rivnuts into the hole.

Step 6: Marker, 5mm Hex (Allen) Socket & Ratchet

Install a bolt (arrow) through the inboard hole in the upper bracket and into the rivnut, then mark the center of the other (outboard) hole using a marker. Remove the upper mounting bracket.



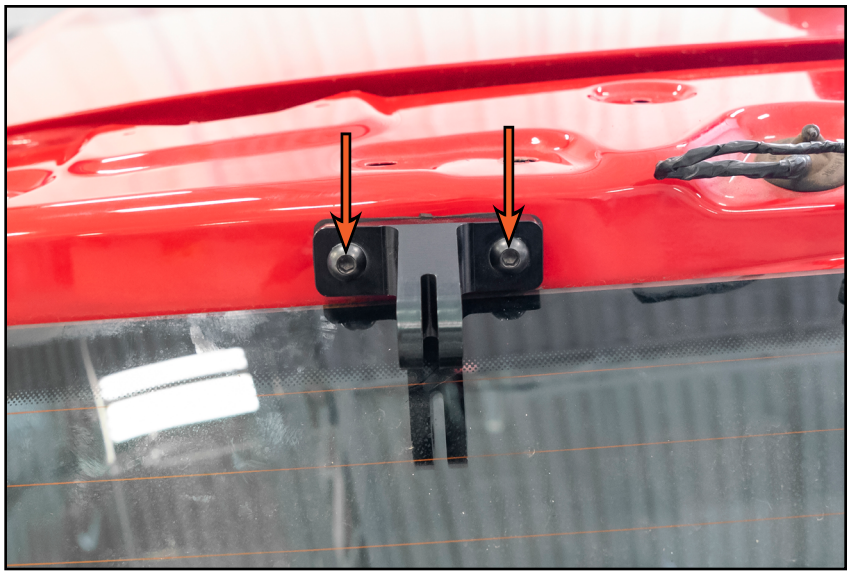
INSTALLING THE REAR WING KIT

Step 7: Marker, Center Punch, 11mm Drill Bit, Drill

Make a vertical line in the location of the mark we just made, then using the same method used in steps 9-11, measure, mark, drill, and install the other rivnut.

Step 8: 5mm Hex (Allen) Socket & Ratchet

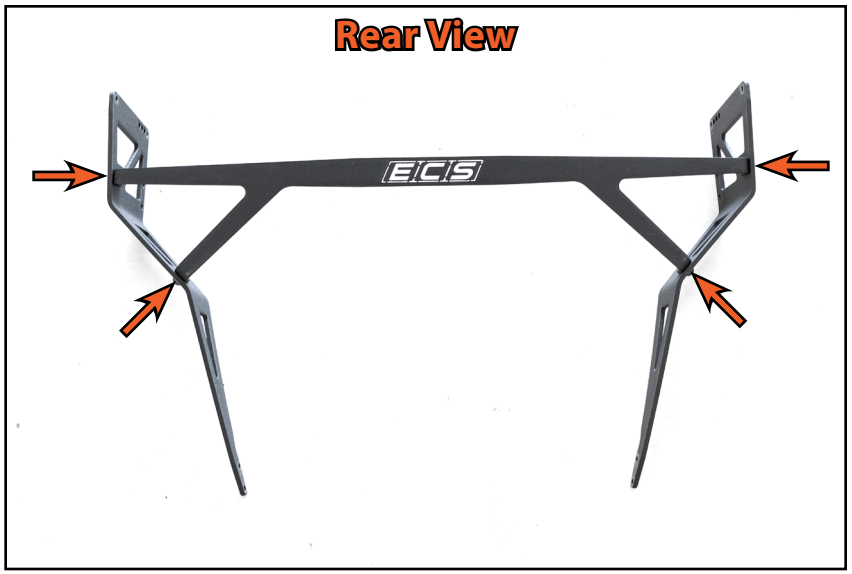
Install each of the upper mounting brackets using the provided M8 x 35mm bolts (arrows) ensuring the supplied gasket is installed between the bracket and the body.

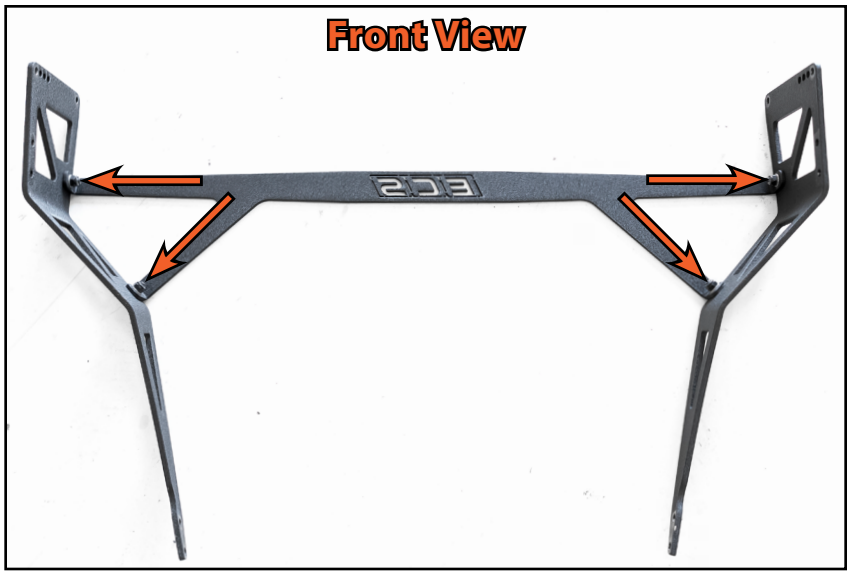


INSTALLING THE REAR WING KIT

Step 9: 13mm Wrench, 5mm Hex (Allen) Socket & Ratchet

Attached the cross bar to the uprights as shown using the provided M8 x 25mm bolts, washers and nuts (arrows).

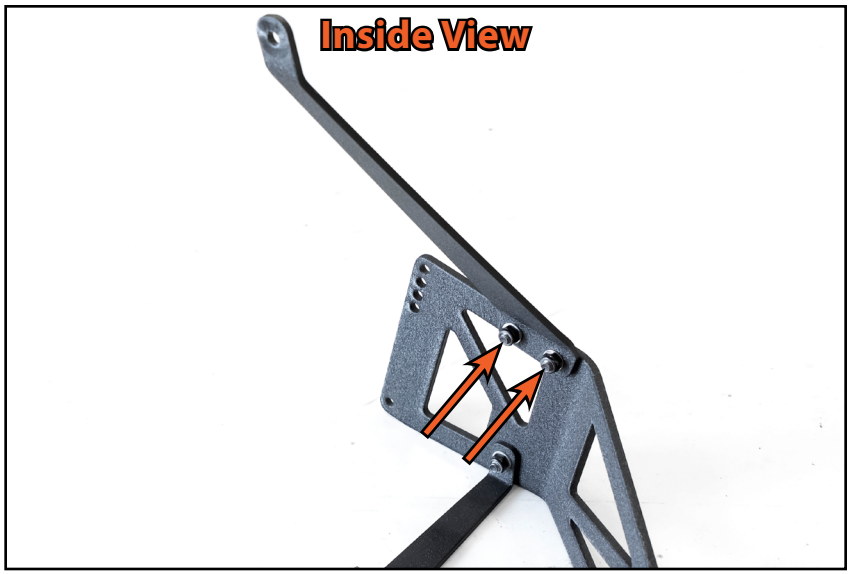




INSTALLING THE REAR WING KIT

Step 10: 13mm Wrench, 5mm Hex (Allen) Socket & Ratchet

Attached the upper braces to the uprights as shown using the provided M8 x 25mm bolts, washers and nuts (arrows).



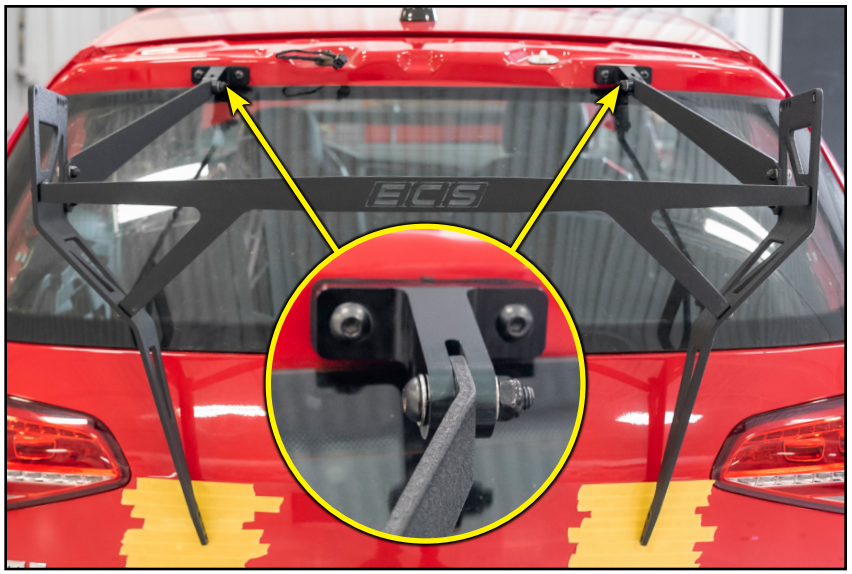
INSTALLING THE REAR WING KIT

Step 11: Masking Tape

Apply masking tape to the hatch in the areas shown.

Step 12: 13mm Wrench, 5mm Hex (Allen) Socket & Ratchet

Carefully lift the assembled wing uprights into place and secure the upper braces to the mounting brackets using the provided M8 x 35mm bolts, washers, and nuts (as shown in inset photo). Leave the nuts slightly loose for now.



INSTALLING THE REAR WING KIT

Step 13: Marker, 13mm Wrench, 5mm Hex (Allen) Socket & Ratchet

Secure the lower mounting brackets to the uprights using the provided M8 x 30mm bolts, washers, and nuts (as shown in inset photo). Leave the nuts slightly loose for now.

Ensure the cross bar is level, and that the lower brackets are flush against the hatch, then mark the center of each hole using a marker. Remove the assembled uprights.

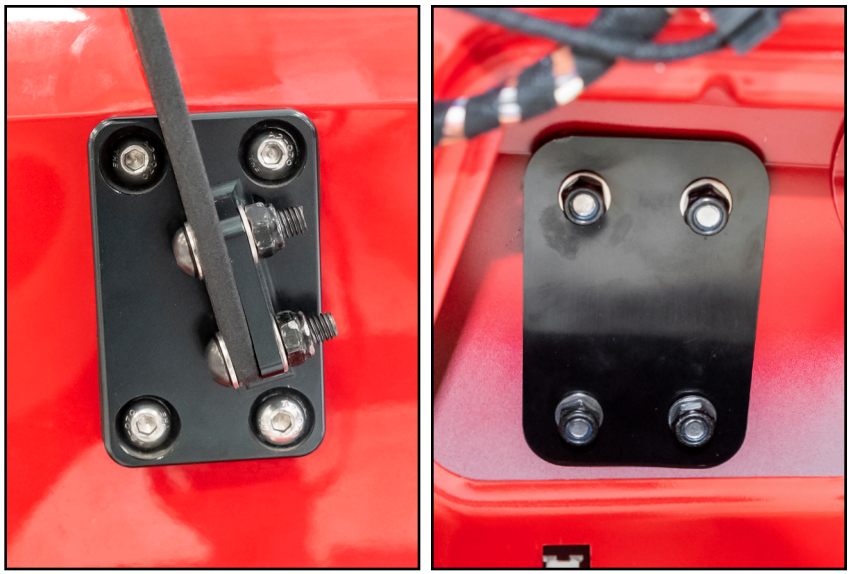
Step 14: Center Punch, 8mm Drill Bit, Drill

Use a center punch on the center of each mark we made, then drill a hole at each location using a 8mm drill bit. Remove the tape and apply paint to the exposed metal to prevent corrosion.

INSTALLING THE REAR WING KIT

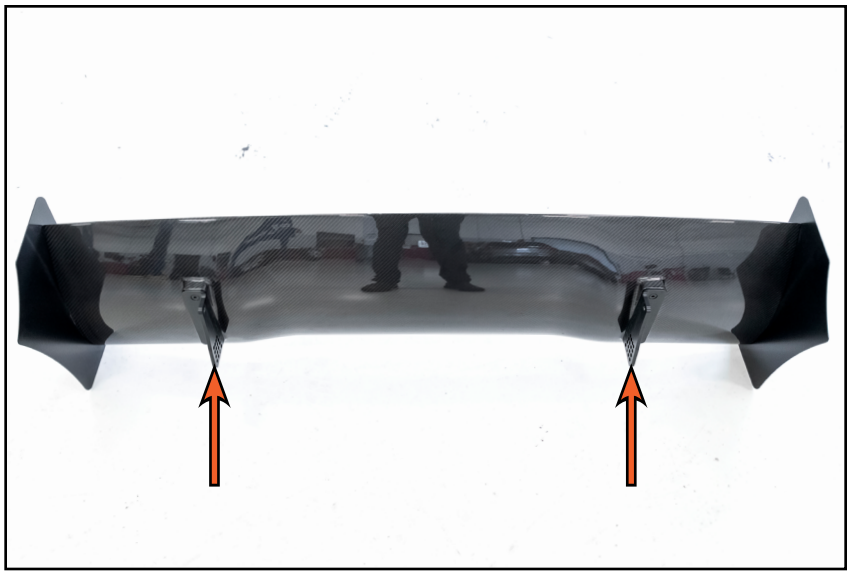
Step 15: 13mm Wrench, 5mm Hex (Allen) Socket & Ratchet

Reinstall the uprights, then slide the provided M8 x 30mm bolts (arrows) through the lower brackets and holes we drilled ensuring the supplied gasket is installed between the bracket and the body. From inside the hatch, slide the backing plate onto the ends of the bolts and secure it into place using the provided M8 nuts and washers. Tighten all of the bolts and nuts until fully snug.



Step 16: 5mm Hex (Allen) Socket & Ratchet

Install the wing brackets (arrows) and end plates onto the wing as shown.



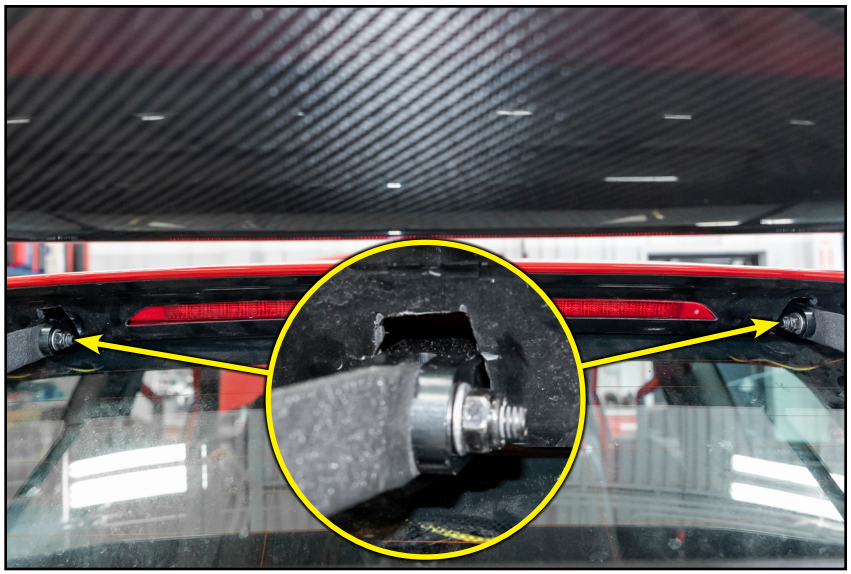
INSTALLING THE REAR WING KIT

Step 17: 13mm Wrench, 5mm Hex (Allen) Socket & Ratchet

Lift the assembled wing onto the uprights, securing it with the included M8 x 30mm bolts, nuts, and washers.

Step 18: Die Grinder

Lay the hatch spoiler into place, mark where the upper brackets touch the spoiler, then carefully trim away the plastic until there is adequate clearance for the brackets (as shown in inset photo).



INSTALLING THE REAR WING KIT

Step 19: 10mm Socket & Ratchet

Reinstall the hatch spoiler.

Step 20:

Reinstall the plastic hatch trim panels.

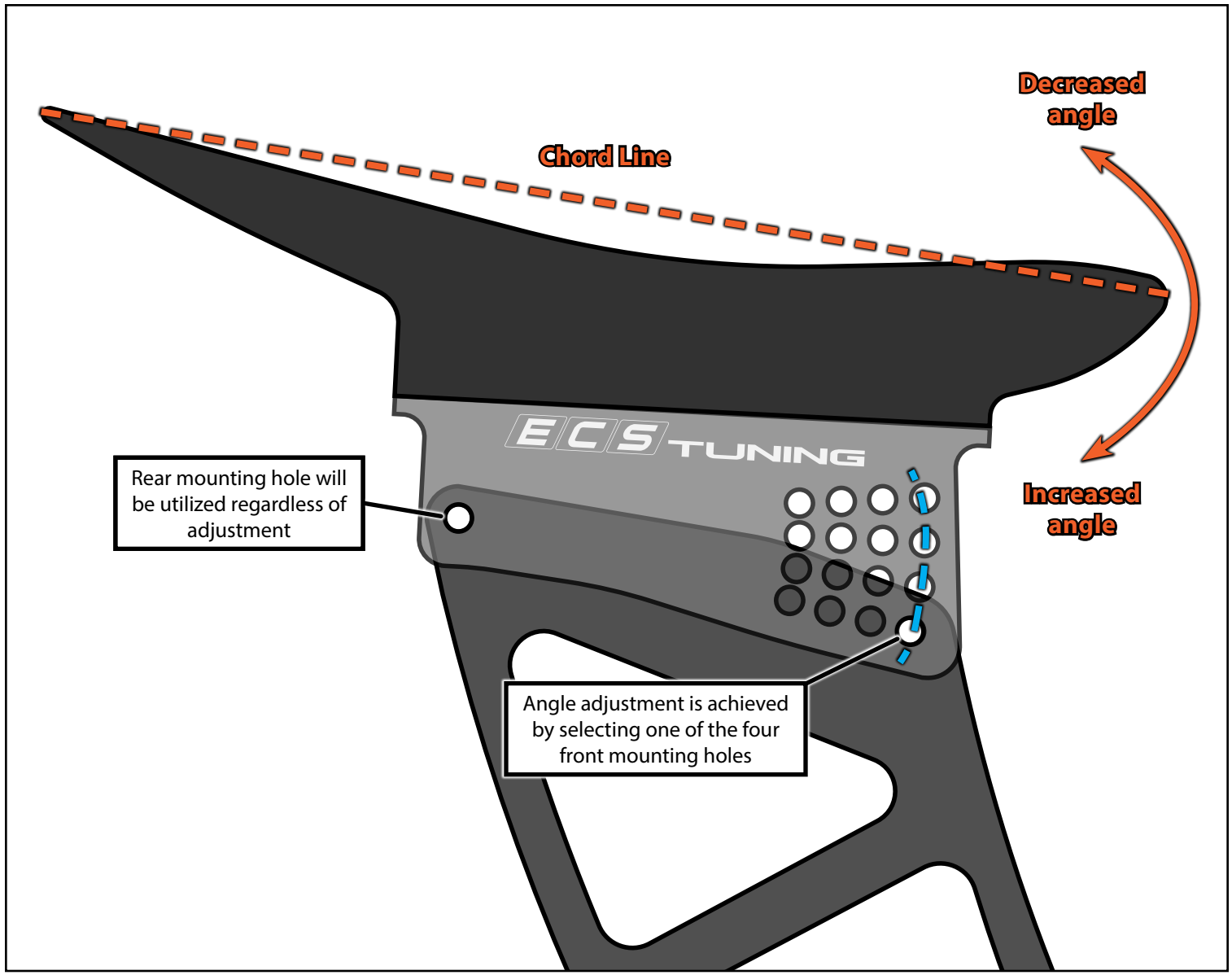
ADJUSTING THE REAR WING

Angle of attack defines the angle at which the wing intercepts the incoming airflow. If you draw an imaginary line between the front and rear edges of the wing (known as the “chord line”), you can clearly see how this angle increases or decreases as you adjust the wing.

- **A higher angle** increases rear downforce at the expense of increased drag.
- **A lower angle** decreases rear downforce but will result in less drag.

Our wing can be adjusted anywhere from 1.3 degrees to 17.8 degrees of angle, with each of the four mounting holes adjusting by 5.5 degrees.

To adjust the wing, remove the hardware from the front mounting holes, adjust the angle to your desired setting, then reinstall the hardware and tighten until snug.



CARBON FIBER CLEANING AND CARE

ECS Tuning carbon fiber wings are clear coated for excellent finish durability and UV resistance right out of the box.

Carbon fiber can be washed with any gentle cleanser or soap. If it is safe for the paint on your car, it will be safe for the carbon fiber.

Be extra careful not to nick or deeply scratch the clear coat on the carbon fiber. This can lead to water intrusion into the carbon fiber which will damage the finish and the integrity of the wing.

If the clear coat does get nicked or deeply scratched to expose the carbon fiber, seal the damaged area thoroughly with a clear coat touch up or clear nail polish.

To retain UV resistance and protect the finish, we recommend regular waxing with a high quality caranuba wax.

Small surface scratches and light oxidation can be buffed out using the same methods and cautions you would use on the vehicle paint.

Carbon Fiber Cleaning and Care Kit (available at ecstuning.com)

ES#2914954

Your Rear Wing Kit installation is complete!

These instructions are provided as a courtesy by ECS Tuning

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.