



## UCW Rear Wing Kit – VB Subaru WRX

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### Install Manual



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Release Date: 2025/12/10  
Approvals: Eric Hazen

#### Document Revisions

Rev	Date	Author	Description
01	2025/12/10	M. Deckard	Initial release of install manual

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## UCW Rear Wing Kit, VB Subaru WRX – Install Manual

## Introduction

**Overview:** Detailed instructions on installing the Verus Engineering UCW Rear Wing Kit for the VB Subaru WRX.

**Difficulty:** Moderate

**Time Required:** 1.5 – 2.5 hour

### Tools Recommended:

- 10mm Socket
- 12mm Wrench
- 10mm Wrench
- 9/16" Wrench
- 5mm Allen Wrench
- 4mm Allen Wrench
- 2.5mm Allen Wrench
- Ratchet
- Drill
- 5/16" Drill Bit
- Step Drill Bit or hole saw (5/8" is Necessary)
- Plastic Trim Tool
- Bubble Level
- 50/50 Mix of Isopropyl Alcohol and Water
- Microfiber Towel



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**Top Mount UCW Rear Wing Kit Components**

- (1) Wing Blade
- (2) Upright
- (1) Left Trunk Mount
- (1) Right Trunk Mount
- (2) Endplate
- **Hardware Bag**
  - (4) M8 45mm Long, BHCS (Button Head Cap Screw), SS (Stainless)
  - (4) M6 16mm long, BHCS, SS
  - (4) M6 30mm Long, Low-Profile (LP), SHCS (Socket Head Cap Screw), Stainless
  - (4) M6 22mm long, SHCS, Stainless
  - (4) M4 16mm long, FHCS (Flat Head Cap Screw), SS
  - (4) M8 24mm, OD Washer, SS
  - (12) M6 12mm, OD Washer, SS
  - (4) Endplate Washer
  - (4) M6 Nyloc Nut, SS
  - (4) M6 Jam Nut, SS
  - (4) M6 Heavy Duty Rivet Nut, Steel
  - (4) Buna-N O-Ring, #013
  - (4) Trunk Mount Spacer, Machined Stainless
  - (1) M6 Rivet Nut Install Tool
  - (1) Left Side Pre-Cut 3M VHB Double Sided Tape
  - (1) Right Side Pre-Cut 3M VHB Double Sided Tape



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## UCW Rear Wing Install

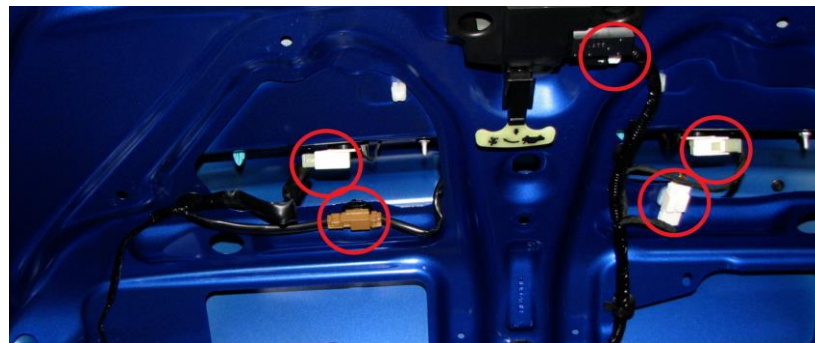
1. Verus Engineering is not responsible for damage to you or your vehicle by following this manual and/or installing Verus Engineering products. Please seek professional service/guidance if you are uncomfortable/incapable of installing this in a safe manner. Contact us at [support@verus-engineering.com](mailto:support@verus-engineering.com) if you have any questions/concerns.
2. We begin by gaining access to the trunk. **Note: Some photos in this manual may be deceiving as the wing is already installed on the trunk.**



3. Remove the trunk insulator using your plastic trim tool.



4. Disconnect the (5) connectors



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5. Remove the wire loom from the trunk lid by disengaging the (7) harness clips. **Note: This loom can stay attached to the trunk hinge.**



6. Use a 12mm socket and ratchet to remove the four bolts holding the trunk to the hinge arms. Once removed, set the trunk down on a soft and flat surface with the bottom side facing upward. **Note: Having a second set of hands for this step is extremely helpful.**



7. Use a 5/16" drill bit, drill straight through the (4) trunk mounting holes to get rid of the threads. The OEM trunk mounting holes are used as guides for drilling these holes. **Note: Once you get through the threaded portion, keep drilling through the top skin on the trunk.**



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8. Flip the trunk over and open up the (4) holes using your 5/8" hole saw and/or step bit. **Note:** Use touch-up paint around the newly drilled holes to help seal the bare metal from the elements.



9. Prepare the trunk mounts for installation by wiping down the trunk and trunk mount surfaces with 50/50 mix of isopropyl alcohol and water.



10. Peel back the white backing and place the 3M VHB on the trunk mounts.



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11. Install the trunk mount spacers with a 12mm wrench and torque them to 6 ft-lb. **Note: You may use a small dab of Loctite here if you wish.**



12. Place the trunk back onto the hinge arms and start the M8 45mm long BHCS with M8 24mm OD washers. **Note: The trunk will be resting on the bolts and will NOT be secure. Having a second set of hands here is very beneficial in holding the trunk.**



13. The bump on the trunk mounts (circled in orange) will be placed towards the rear of the car.



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14. Pull off the 3M VHB red backing and hold it as close to the trunk as possible without letting the 3M VHB touch the trunk.
15. Use a 5mm Allen wrench or socket to start and tighten the M8 bolts into the trunk mount spacers to 10-12 ft-lbs. **Note: While tightening the bolts, ensure the trunk is aligned properly with the hinge arms using the non-painted sections of the trunk as a guide.**



16. Once the four bolts are torqued to spec and the trunk is aligned properly, you should have something that looks like the photo below.



17. Close the trunk and install the uprights with the (2 per side) M6 16mm long BHCS and (2 per side) 12mm OD washers. Torque to 6 ft-lbs.



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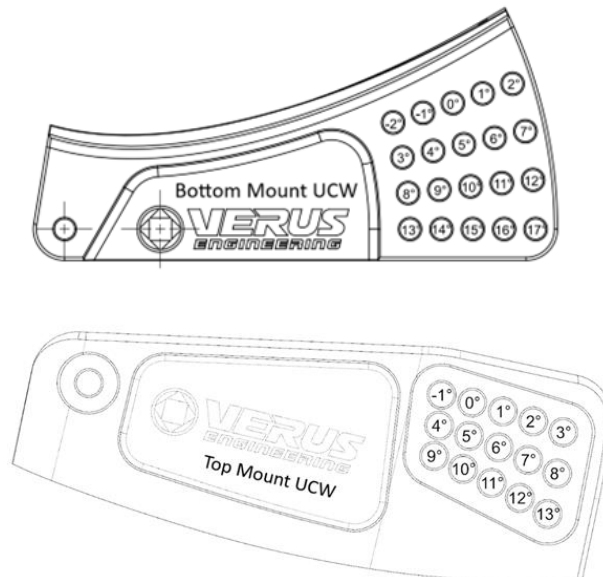
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- 18. Top Mount:** Use the M6 22mm long SHCS, 12mm OD washers, and nyloc nuts to install the wing blade onto the uprights. **Note: Use a washer on both sides of the wing mount and upright.**

**Bottom Mount:** Use the M6 25mm long BHCS, 12mm OD washers, and nyloc nuts to install the wing blade onto the uprights. **Note: Use a washer on both sides of the wing mount and upright.**



- 19.** Tighten the bolts and nuts to 6 ft-lbs.
- 20.** For AOA, below is a guideline of what we have designed and tested internally. Every install and car can vary from this slightly. To ensure proper AOA, you should lay a straight edge from front to rear of the wing and check the degree measurement **\*in relation to the ground plane\***.



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21. Install the O-ring on the grooved washer.



22. Install the endplates using the assembled washers and M4 FHCS.



23. For the best results, the endplates should be installed with the top edge parallel to the ground. You can do this by utilizing a household bubble level as shown below.





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24. Reopen the trunk and remove the OEM trunk stops.



25. Install the heavy-duty rivet nuts into these holes. **Note: The rivet nuts shown in the diagram are incorrect for this segment, but the install process is the same. The second image shows the correct rivet nuts to use here. Use oil on the threads to ensure they do not gall.**



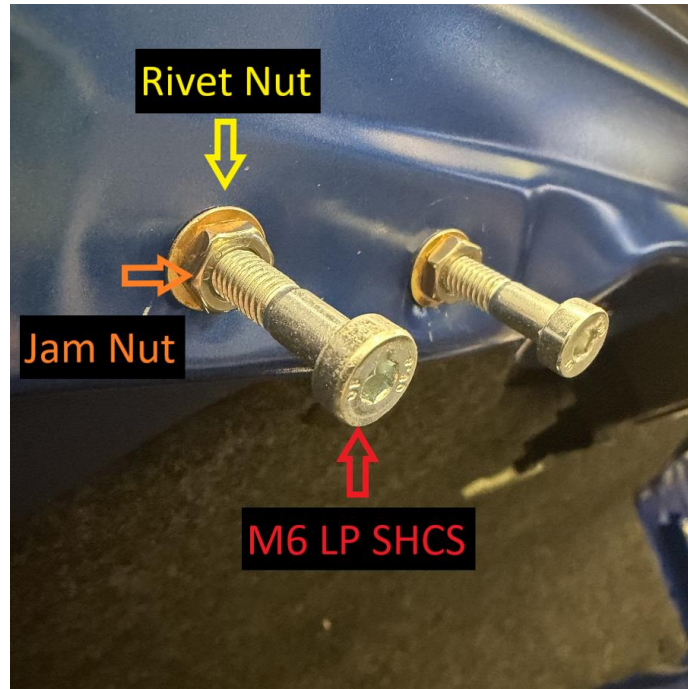
26. Below is an example of fully installed rivet nut.



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27. Once the rivet nuts are installed, thread the M6 jam nuts onto the M6 30mm long low-profile SHCS, and then thread the SHCS into the rivet nuts as shown below.



28. Open and close the trunk multiple times and adjust the new trunk stops as necessary. You want the socket heads to butt up against the black plastic trim and create small indentations. **Note: If you have the trunk stops too long, the trunk will not close, too short, and they do not serve any purpose.**



29. Once the trunk stops are at the desired height, tighten the jam nuts to lock them into place.

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30. Congratulations on installing the UCW Rear Wing for the VB Subaru WRX! For more information on performance, please visit our website and take a look at our informative packet.
31. Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; [support@verus-engineering.com](mailto:support@verus-engineering.com).

