

VERUS ENGINEERING

UCW Rear Wing and Spoiler – 987 Cayman

Install Manual



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1. Introduction

1.1. Overview: Detailed instructions on installing the Verus Engineering rear spoiler and rear wing on the 987 Porsche Cayman.

1.2. Difficulty: Moderate

1.3. Time Required: 2.5 – 4 hour

1.4. Tools Needed:

- 1.4.1. Drill
- 1.4.2. Assorted Drill Bits
- 1.4.3. Stepped Drill Bit with 13/16" Step
- 1.4.4. 4mm Allen Wrench/Socket
- 1.4.5. Assorted Torx Set
- 1.4.6. 12mm Deep Socket
- 1.4.7. 14mm Deep Socket
- 1.4.8. Ratchet
- 1.4.9. Plastic Panel Popper Tools
- 1.4.10. Level
- 1.4.11. Microfiber Towel
- 1.4.12. Alcohol
- 1.4.13. 5/16", 6 Point Socket
- 1.4.14. 5/16", 12 Point Socket

1.5. Rear Spoiler and Rear Wing Components

1.5.1. Rear Spoiler – Assembled

- 1.5.1.1. Spoiler
- 1.5.1.2. Weather stripping - Installed
- 1.5.1.3. Double-sided tape - Installed
- 1.5.1.4. (2) Uprights - Installed

1.5.2. Carbon Fiber Rear Wing – Assembled

- 1.5.2.1. Rear Wing
- 1.5.2.2. (2) Wing Mounts - Installed

1.5.3. (2) Carbon Endplate

1.5.4. (2) Spoiler Mount

1.5.5. (1) Spoiler Drill Template

1.5.6. Hardware Bag

- 1.5.6.1. (4) M4x0.7 x 16mm Long Flat Head Cap Screw (BHCS) , Stainless
- 1.5.6.2. (4) Aluminum Endplate Washers
- 1.5.6.3. (4) #013 O-Ring
- 1.5.6.4. (4) M6x1.0 x 25mm Button Head Cap Screw (BHCS), Stainless
- 1.5.6.5. (8) M6x1.0 x 12mm OD Washer
- 1.5.6.6. (4) M6x1.0 Nyloc Nuts

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- 1.5.6.7. (4) M6x1.0 x 12mm Long BHCS, Stainless
- 1.5.6.8. (10) M6 x 18mm OD Washer, Stainless
- 1.5.6.9. (6) M6x1.0 x 20mm Long BHCS, Stainless
- 1.5.6.10. (6) M8 x 24mm OD Washer, Stainless



2. 987 Cayman Rear Spoiler Install

- 2.1. Verus Engineering is not responsible for damage to you or your vehicle by following this manual and/or installing Verus Engineering products.
- 2.2. We begin by removing the rear OEM spoiler. Raise the OEM spoiler so we can access the underside.



- 2.3. Remove all the torx bolts on the underside of the OEM wing.

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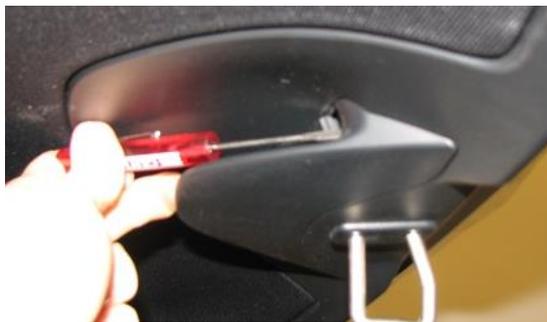


2.4. Remove the nut shown below on each side. This will allow the spoiler to be fully removed.



2.5. With the spoiler removed, pop the trunk so that we can remove the plastic during drilling.

2.6. Remove the little covers near the handle area.



2.7. Remove these torx bolts that reside behind these small covers.

2.8. The trunk liner can now be removed. It does not come off easily though. Plastic panel poppers and significant pulling force is needed to remove this piece.

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2.9. To fully remove the panel the light needs disconnected.



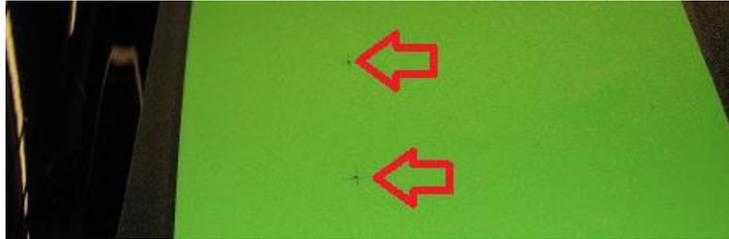
2.10. Lower the trunk and grab the drill template.

2.11. Install the drill template as shown below. The bottom and sides should line up very closely with the OEM trunk's edges.



2.12. Looking close on the template, you may notice cross hairs throughout the template. Ten total crosshairs. Utilize these with a center punch to mark the holes for drilling.

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- 2.13.** Before beginning to drill, we recommend laying something between the hatch and the trunk to catch a lot of the shavings.



- 2.14.** Another option is to remove the trunk which is not terribly difficult. It involves the (4) bolts on the hinge, removing the wiring harness, and the (2) gas shocks.

- 2.15.** Utilize an 1/8" drill bit to begin and drill the 10 holes. Go through both the hatch and the structure beneath it.

- 2.16.** Increase the drill bit size to 1/4" and increase the size of the holes.



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- 2.17.** From the underside of the hatch, we need to increase the size of the holes through the structure to 13/16". This allows the large washers to pass through and the rubber grommets to be installed.



- 2.18.** At this point, the carbon ducktail is ready to be installed. Before installing the carbon ducktail; we want to ensure the OEM spoiler mounts are fully lowered.



- 2.19.** We also need to permanently disable the spoiler motor so that they do not raise and go through the carbon duck tail.

- 2.20.** To do this, remove the rear plastic cover shown below on each side of the vehicle.



- 2.21.** Pull down on the pillar mounts as shown below. They do not need to be fully removed; just pulled down in the rear.

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2.22. The hatch plastic can now be removed. Pull this forward to remove.

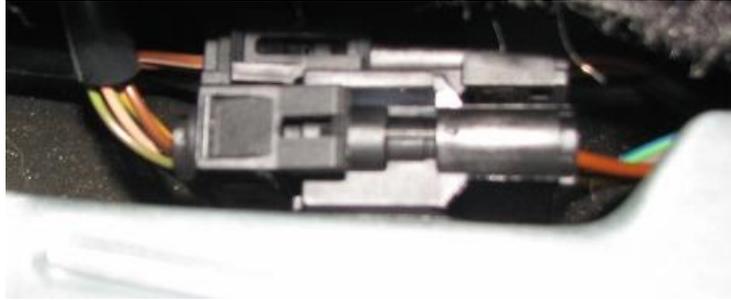


2.23. Remove the carpeted piece by pulling it forward.



2.24. Disconnect the below connector; which controls the spoiler mounts.

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- 2.25.** By disconnecting, the car will throw a code at speeds above 70 MPH. To permanently remove this, you will need to use the Durametric scan tool and disable the code.
- 2.26.** Install the spoiler mounts on the OEM rear wing mount locations as shown below.



- 2.27.** The spoiler mount should be parallel to the rear bumper. Utilize the supplied M8 washers to properly space the spoiler mounts, we found (2) washers worked well for our shop car.



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- 2.28.** We can now install the carbon duck tail. Note that there are (2) different bolt lengths used and below is the location of the lengths for each bolt. **Ensure the short lengths are used in the correct locations, or damage to the carbon can occur.**



- 2.29.** Pull the backing off the double sided tape on the carbon ducktail before install.



- 2.30.** Use care when installing the bolts! Cross-threading bolts into the bungs can cause permanent damage to the duck tail, bung, or both.



- 2.31.** We recommend starting with the center bolts first, and moving outward. Thread the bolts in by hand first to ensure the bolts are going in smoothly.

- 2.32.** Tightening torque for these 10 bolts will be 6 ft-lbs.

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- 2.33.** Install the supplied rubber grommets in the holes as shown below.



- 2.34.** With the carbon duck tail installed; we can now install the rear wing on the uprights.

3. Rear Wing Install

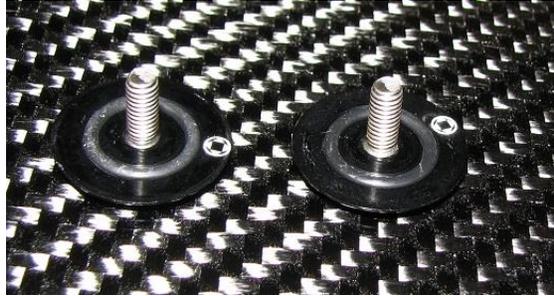
- 3.1.** The rear wing already has the mounts installed on it. Grab the 25mm long M6 BHCS's, 12mm OD M6 washers, and M6 nyloc nuts for installing the rear wing.
- 3.2.** Slide the wing mounts onto the uprights, and bolt the wing on with your chosen AOA. We suggest starting with something around 4-6 degrees initially and adjust from there.



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- 3.3.** With the wing installed; we can install the endplates. Grab an endplate, two M4 x 16mm long FHCS, two o-rings, and two endplate washers. Note: If you dip the o-ring in water, it will stay within the endplate washer better.



- 3.4.** Install the endplate. With a level on the top surface, level the endplate. Once the endplate is level, you can now tighten the bolts. Bottom these bolts out and then give them another 1/8th of a turn. Do not overtighten these bolts!
- 3.5.** Re-install all the trunk plastics that were removed.
- 3.6.** Congratulations on installing our 987 UCW Rear Wing. Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; sales@verus-engineering.com.



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