

Flat Underbody Cover – 981 Cayman

Install Manual



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1. Introduction

- **1.1. Overview:** Detailed instructions on installing the Verus Engineering flat underbody cover for the 981 Porsche Cayman.
- 1.2. Difficulty: Easy
- 1.3. Time Required: 1-1.5 hour

1.4. Tools Needed:

- **1.4.1.** Drill
- **1.4.2.** Stepped Drill Bit or 3/8 bit
- **1.4.3.** 7mm Socket
- **1.4.4.** 10mm Socket
- **1.4.5.** 13mm Socket
- **1.4.6.** Ratchet
- **1.4.7.** 9/16 Wrench
- **1.4.8.** Scissors
- 1.4.9. 2.5mm Allen Wrench
- **1.4.10.** 4mm Allen Wrench/Socket
- 1.4.11. Torque Wrench

1.5. Flat Underbody Cover Components

- **1.5.1.** Left-hand Flat Underbody Cover
- 1.5.2. Right-hand Flat Underbody Cover
- **1.5.3.** (2) Brackets
- **1.5.4.** Hardware Bag
 - 1.5.4.1. (14) M4 x 0.7 Stainless Button Head Cap Screw (BHCS), 10mm Long
 - **1.5.4.2.** (14) M4 x 0.7 Nyloc Nut, Stainless
 - **1.5.4.3.** (30) M4 Washer, Stainless
 - 1.5.4.4. (6) M6 x 1.0 Stainless Button Head Cap Screw (BHCS), 20mm Long
 - **1.5.4.5.** (8) M6 Large Diameter Washer, Stainless
 - **1.5.4.6.** (2) M6 x 1.0 Stainless Button Head Cap Screw (BHCS), 45mm Long
 - **1.5.4.7.** (4) M6 x 1.0 Serrated Nut, Stainless
 - **1.5.4.8.** (2) M6 Nylon Spacer, 15mm Long
 - **1.5.4.9.** (2) M6 Nylon Spacer, 5mm Long
 - **1.5.4.10.** (1) M6 Rivet Nut Install Tool
 - **1.5.4.11.** (2) Low Profile M6 Rivet Nut
 - **1.5.4.12.** (2) Flanged M6 Rivet Nut
 - **1.5.4.13.** (1) 1/4" Thick Foam (12" Long)

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2. 981 Cayman Flat Underbody Cover

- **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 either jacking the vehicle up or lifting it up on the lift. Do so by using jacking points and safe practices.
- 2.3. First, let us get familiar with the underside of the 981, right behind the engine specifically.



2.4. We will kick off the install with installing the brackets on the bottom sway bar bolt locations. These are located above by the red circles.



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- **2.5.** Remove only the bottom bolt, utilizing the 13mm socket.
- **2.6.** Install the bracket as shown below. Torque the bolt to 12-16 ft-lbs.



- 2.7. Moving forward, we can install the rivet nuts in the locations marked with blue arrows.
- **2.8.** Starting with the outer of the two holes, we can install the flanged rivet-nut as the hole is already 3/8" in size. The outer hole is shown below with the red arrow, and the rivet nut is already installed. The yellow arrow points out the inner hole.



2.9. To install the rivet-nuts, utilize the 9/16" wrench to hold the nut steady while you use the 10mm socket and ratchet to turn the bolt. The correct orientation and use of the tool is shown below.



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2.10. Below is a properly installed outer rivet.



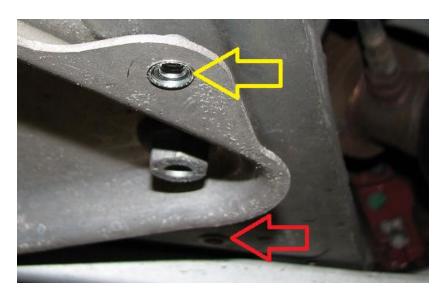
2.11. Grabbing the drill and a stepped bit, we open the inner holes to specifically 3/8".



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2.12. Install the remaining two rivet nuts in the two locations drilled in 2.11. Below is a photo of one side showing the latest rivet nut installed (yellow arrow), with the previously installed rivet nut (red arrow).



2.13. Moving onto assembling the underbody panels; we find some cardboard to place on a flat surface (floor) to ensure the finish does not get scratched while working on it.



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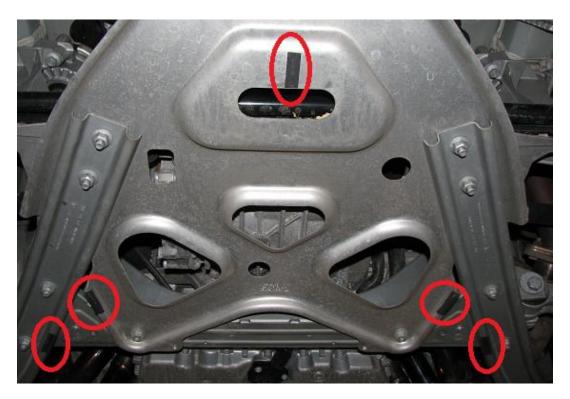
2.14. Utilizing all the M4 BHCS, washers, and nylocs, we can fasten the two panels together. Utilize the 2.5mm allen wrench and 7mm socket to tighten these bolts and nuts. The panels should be on a flat object so that when fully tightened, the panels are flat.



2.15. Before the underbody panel is fully ready to be installed on car; we need to add a few pieces of foam to ensure no noise is present with the panel installed on car. The below photo shows the (5) locations we recommend. Utilize the supplied foam and cut it in shorter strips.



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- **2.16.** The underbody panel is now ready to be installed on the Cayman. It is helpful to have a second pair of hands for this part of the install.
- 2.17. If you are installing the rear diffuser; we need to fasten to underbody cover to the rear diffuser at this point. Please refer to diffuser install manual at this time!
- **2.18.** Starting with the rear most holes; we utilize the shorter of the bolt, with a washer on the bottom side, and a serrated nut on the top of the bracket.



2.19. Moving to the front (4) holes, the outer two holes need spacers installed to tighten fully.

Utilize a 15mm spacer on the top of the panel, and use the 45mm long BHCS with a washer

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below, and thread it into the rivetnut. We include extra spacers in case you may need to space it down slightly more to get the panel to be flat



- **2.20.** Grabbing the final 20mm long BHCS, and a few washers, we can bolt the inner two of the front (4) mounting points. These do not need any spacers.
- **2.21.** At this point, the underbody panel should be fully installed. Ensure all the bolts are tight (torqued to roughly 6-8 ft-lbs).
- **2.22.** Before lowering the car, we recommend lightly banging on the panel to ensure no rattling noises are present.
- **2.23.** Congratulations on installing our 981 underbody panel. Please send any questions, comments, concerns, or photos to Verus Engineering via e-mail; **sales@verus-engineering.com**.



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