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Mk5 Toyota Supra Fender Vents Install

Installation Manual



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Fender Vents, Mk5 Supra – Install Manual

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Introduction

Overview: Detailed instructions on installing the fender vents for the Mk5 Toyota Supra.

Difficulty: Moderate

Time Required: 3-4 hours

Tools Needed:

- Ratchet and/or Impact
- 13mm socket
- Grinder and/or Dremel with a cutoff wheel
- Reciprocating saw
- Screwdriver or pry tool
- Scissors
- Painter's or Gaffer tape
- Microfiber Cloth
- 50/50 Isopropyl Alcohol and Water Mix
- Belt sander or sand paper
- Sharpie
- Ear protection (Recommended)
- Safety glasses (Recommended)
- Work gloves (Recommended)
- Touch-Up Paint (Optional)

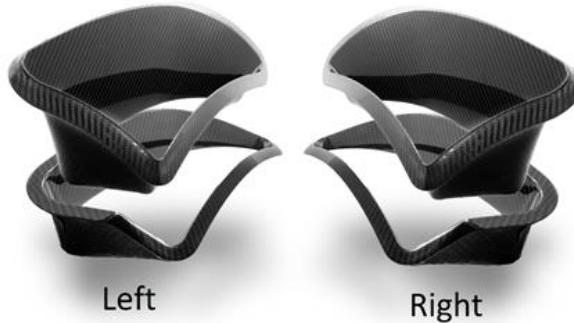


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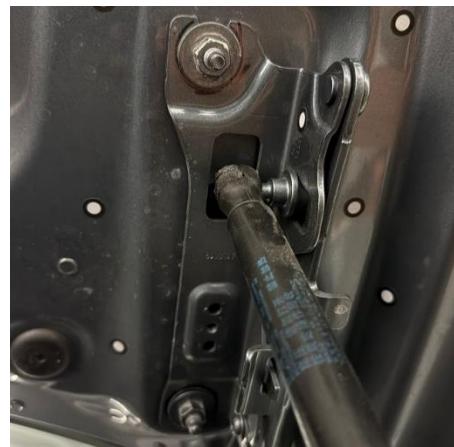
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Fender Vent Kit Components:

- Left-Hand Fender Vent – Top and Bottom
- (1) Right-Hand Fender Vent – Top and Bottom
- (1) Hardware Bag
 - (2) Cut Templates, One for Each Side
 - (4) 3M VHB Tape, cut to shape
 - (3) Templates

**Fender Vent Kit Install**

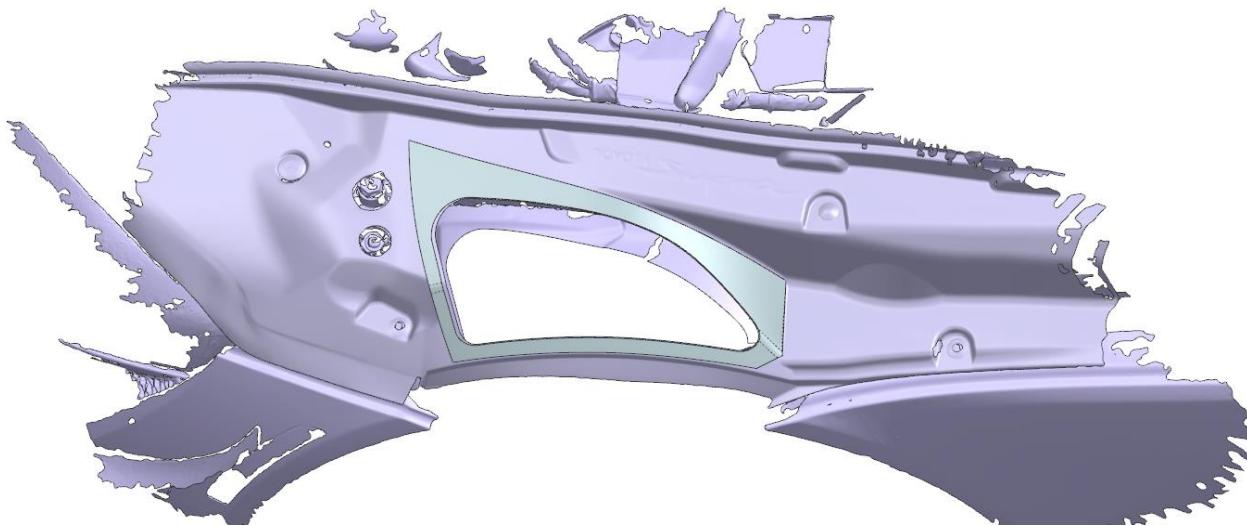
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2. Remove the hood by removing the four 13mm nuts and set the hood on a soft, flat surface. We like to use soft carpet to ensure the hood surface does not get scratched or damaged. We also recommend using saw horses if you do not want to work on the ground. **Note: You may want to mark the nut locations on the hood for reinstallation purposes with a sharpie or paint pen. This allows the hood to be put back on in the same exact location. Having a second set of hands here is extremely helpful as well.**



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3. Cut out the paper templates.
4. Place plastic fender liner templates in the corresponding location as shown below.
5. With the tape of your choice, affix the template to the upper fender liner. Use the marked locations on the template and the above images as your guidelines for placement. **Note: We chose to use Gaffer tape to apply this template as it sticks to the plastic liner better than painter's tape.**



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6. Cut along the marked lines on the template. We found using a cut off wheel works well for this part. You should be left with an opening similar to the one shown in the image below.



7. The area made visible during the cut made above in **step 2.6** is the lower fender liner (wheel side). We marked the area to cut out the wheel side fender liner by using the carbon vents as a template (shown below). Once the cutout area has been marked remove the carbon vents.



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8. Using the cut-off wheel again, cut the interior part of the fender liner. Due to the sharp corners in this area, we found using a combination of a cut off wheel and body saw worked best to cut this part out. **Note: If your car is lowered, be aware of the depth of your cut. It is possible to accidentally damage your tire if you cut too deep.**
9. After this cut is made, there will be (2) thin pieces of the inner fender liner (one is shown below) that will be loose. These remaining sections will need to be cut off the rest of the way so that they do not make contact with the tire.

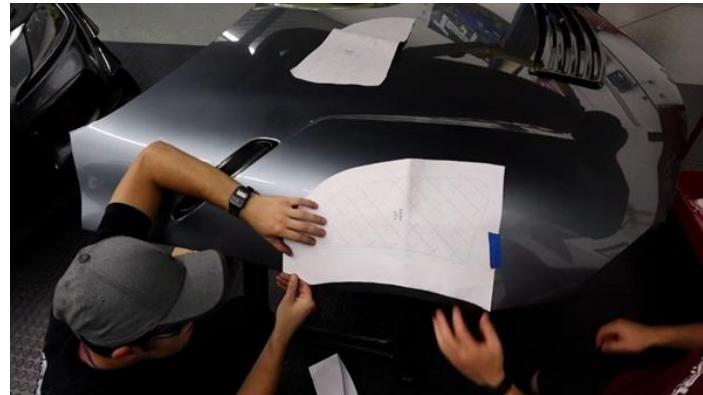
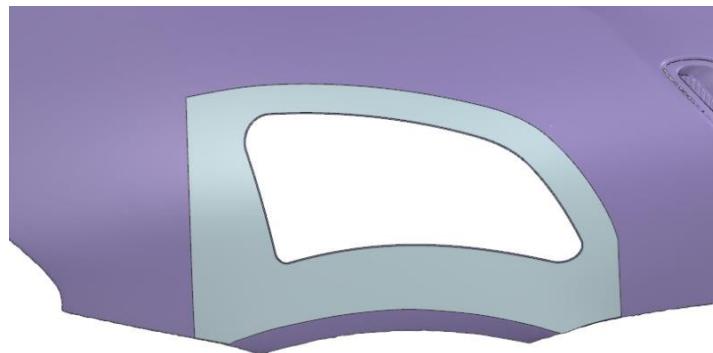


10. Test fit the lower fender vent. We do this to ensure the vent sits flush with the fender liner. If it does not, make the necessary cuts to ensure that it does sit flush.
11. Once the vent sits flush with the fender liner surface, repeat the same processes on the remaining side.
12. When both sides and layers of the fender liners have been cut and trimmed, it is time to move on to the hood portion of the vent.
13. With the hood securely positioned, attach the template using painter's tape. The template will line up with the upper body line of the front fender arch (as shown below).



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14. With this template, you will use your grinder with cutoff wheel to cut through the upper (2) layers of the hood. **Note: The hood has a total of 3 layers. The upper layers will be cut from the top side and the bottom most layer will be cut from the underside.**

Caution: Prying may be necessary to separate the upper sections due to the bond joints between the layers.

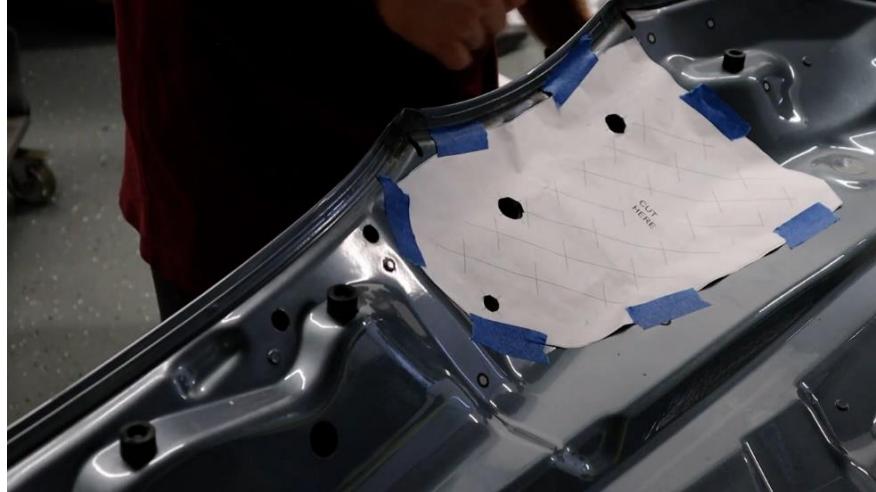
15. With the (2) upper layers of the hood cut (as shown below), it is now time to cut the underside of the hood.



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16. Install the underside hood template by aligning the holes in the template with the factory holes in the hood (as shown below). Using the grinder with cutoff wheel, cut out the area designated with the cross-hatch pattern.



17. Now that the final layer is cut out, you can begin test fitting the vent. We had to test fit and trim a few times for the vent to have the desired flush fitment we were looking for. The image below is what our cutout looked like once the desired fitment was achieved. **Note: At this point, we recommend deburring all the cut edges to avoid cutting yourself. We used a belt sander, but regular sandpaper will work as well.**



18. Repeat the hood cutting process on the remaining side before proceeding.
19. Once you are happy with the placement, remove the test fitted vents and reinstall the hood on the car. The bonding process will be done with the hood on the car. **Note: Make sure that hood is properly aligned after reinstallation. This will affect alignment of upper and lower vents and hood latch operation.**

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20. With the hood back on the car, prepare all vents for double sided tape. Clean the upper flange of each piece (shown below), this is where double-sided tape will be used to attach the vent to the car.



21. Apply the white side of the double-sided tape to the vents.
22. Massage the double-sided tape onto each vent and test fit one last time. This last test fit is to verify that the upper and lower vents do not contact each other while the hood opens and closes. **Note: If contact is present, further trimming and adjustments will be necessary. Once upper and lower vents on both sides of the car no longer contact when hood opens and closes, you may proceed to bonding process.**
23. With final placement verified, peel off the red backing of double-sided tape and bond each vent to its final location. **Note: For best results, follow 3M's guide for the best conditions to apply Double-sided tape.**
24. Congratulations! You have completed the installation of the Mk5 Supra Fender Vents! If you have any comments, concerns, or issues, please contact support@verus-engineering.com.



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