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G87 BMW M2 Hood Louver Install

Installation Manual



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1.1. Overview: Detailed instructions on installing the hood louver for the G87 BMW M2.

1.2. Difficulty: Moderate

1.3. Time Required: 2-3 hours

1.4. Tools Needed:

- 1.4.1. Ratchet and/or Impact
- 1.4.2. 13mm socket
- 1.4.3. 1/8" Drill Bit
- 1.4.4. Drill
- 1.4.5. Scissors
- 1.4.6. Painter's tape
- 1.4.7. Cut-Off Wheel
- 1.4.8. Deburring Flap Disk or Hand Debur Tool and File
- 1.4.9. Safety Glasses
- 1.4.10. Vacuum
- 1.4.11. Touch-Up Paint (Optional)

**1.5. Hood Louver Components**

- 1.5.1. (1) Hood Louver
- 1.5.2. Hardware Bag
 - 1.5.2.1. (1) Cut Template
 - 1.5.2.2. (1) Pre-Cut Left Side 3M VHB Tape
 - 1.5.2.3. (1) Pre-Cut Right Side 3M VHB Tape

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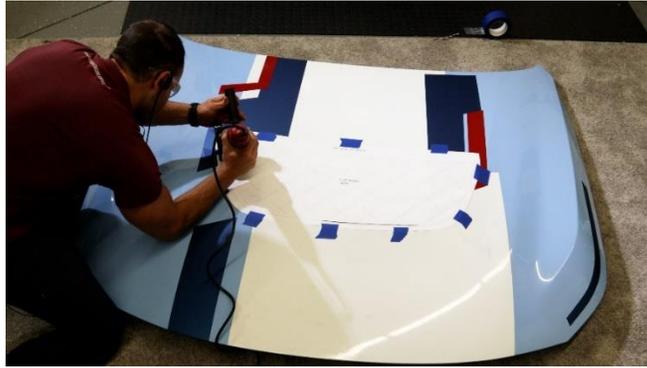
2. Hood Louver Kit Install

- 2.1. Verus Engineering is not responsible for damage to your vehicle by following this manual.
- 2.2. Remove the hood by removing the four 13mm nuts and set the hood on a soft flat surface. We like to use a roll of carpet to ensure the hood surface does not get scratched or damaged. **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.**
- 2.3. Cut out the template and tape it to the hood as shown below using the marked locations as your guidelines for placement.

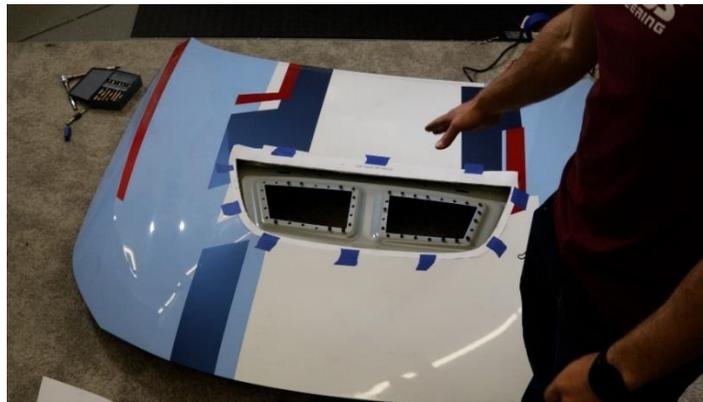


- 2.4. Check measurements to various points to ensure that the template is square and even on the hood. Measure twice, cut once!
- 2.5. Using a cut-off wheel, cut along with marked lines on the template as shown below.

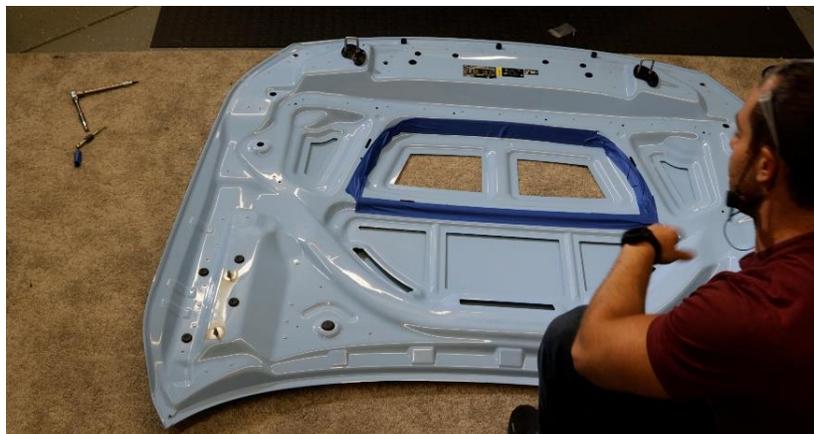
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- 2.6. After the top skin has been cut, remove it by prying up. These edges are very sharp, so gloves are advised here. After the top skin is removed, you should have something like the photo below. **Note: There is a bonding agent holding this top skin to the under-hood structure. You will need to pull fairly hard to remove the top skin, so do so carefully.**



- 2.7. Mark the cut area with painter's tape around the structure as shown below. We are using the raised edge to keep the cut off wheel away from the hood skin. A photo of what this should look like is below.



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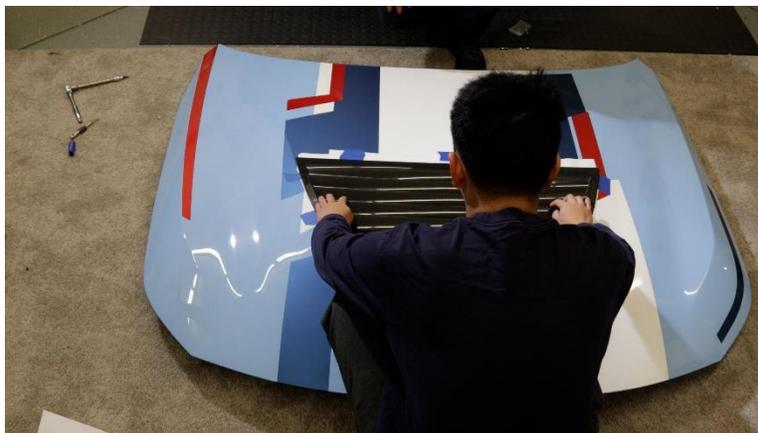
- 2.8.** Using the cut-off wheel again, cut the interior part of the section that was just marked with tape.



- 2.9.** Remove the under-hood structure you just cut out. You can also remove the painter's tape at this point on the bottom side of the hood.



- 2.10.** Flip the hood back over and test fit the hood louver before the template is removed. We do this to ensure the hood louver will sit flush with the hood. If it does not, make the necessary cuts to ensure it does sit flush.

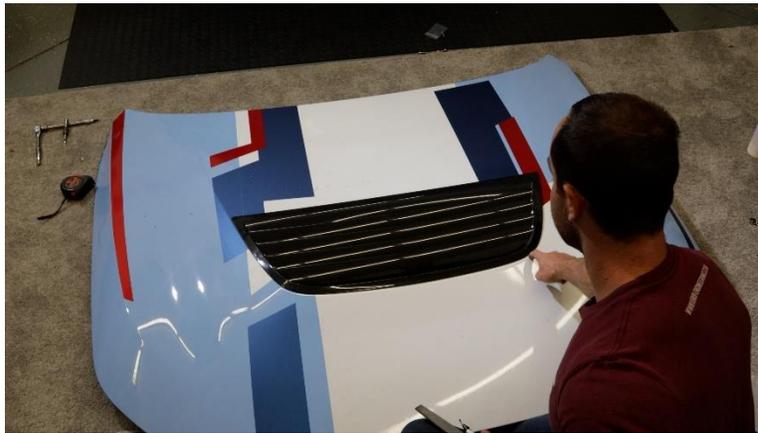


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- 2.11.** Once the louver sits flush with the hood surface, you may now remove the template and painter's tape.
- 2.12.** Clean, and debur the raw edges. Coat the raw edges with touch up paint at this point if you would like to do so. It is not needed on the M2 as the hood is aluminum.



- 2.13.** Prepare both the hood vent, and the hood with a 50 / 50 mix of isopropyl alcohol and water.
- 2.14.** Install the pre-cut 3M VHB onto the hood louver and peel the red backing off a small section of the double-sided tape on each side leaving this as a tab you can pull once the hood louver is installed. This is done so that you can set the hood louver onto the hood while still being able to make adjustments. Once, you are happy with the placement, pull the rest of the red backing off of the tape and apply pressure to adhere the tape. **Note: Ensure the leading edge of the hood louver follows the natural curvature of the hood. This is being pointed at in the photo below.**



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- 2.15. It is ***highly*** recommended to follow 3M's VHB install instructions, which are the following: **The ambient temperature should be over 50 degrees F. 50% of the ultimate bond strength will be achieved after 20 minutes, 90% after 24 hours, and 100% after 72 hours.**
- 2.16. Vacuum all the shavings from inside the hood as well as possible and reinstall the hood on the car.
- 2.17. Congratulations! You have completed installation of the G87 BMW M2 Hood Louver! If you have any comments, concerns, or issues, please contact sales@verus-engineering.com.

