

/// Race Louvers

Professional R&D - Wind Tunnel Tested - Track Proven

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CF Hood Louver Installation Instructions

Thank you for choosing Race Louvers. Below are detailed instructions on how and where to install your hood louvers. If at any point you need assistance please give us a call. Race Louvers is not responsible for any damage resulting from the installation or use of any Race Louver products.

Whats in the box

- Hood Louver(s)
- 3M VHB Tape
- Installation Jig
- Template(s)
- Alcohol Wipe
- Installation instructions
- Decals

Recommended Tools

- Masking tape
- Tape measure
- String
- Scissors
- Saw horses, work bench, cushions
- Hood removal tools
- Drill with assorted bits
- Reciprocating saw, jig saw, cut off wheel or similar
- Sanding drum or file
- Spray paint or touch up paint
- Die grinder
- Rivet fastener

Important - Prior to performing any work please verify the supplied template is the appropriate size for the extractor.

Note - An extra template may be included in cases where only one of the dual kits are purchased. This allows the customer to locate and install the single kit so that the other matching kit can be installed at a later date.

Note - The CF louvers must be installed on the areas of the hood so that there are no gaps between the louver mounting surface and hood's surface.

Marking the Louver Location on the Hood

1. Open the hood of the vehicle.
2. Using masking tape, tape measure and some string mark the location of the back of the radiator on both sides of the fender.
3. Close the hood.
4. Using the masking tape on the fenders as a reference add masking tape on the center of the hood marking the location of the back of the radiator.
5. Using masking tape, tape over the entire area behind the radiator where the louver(s) are to be installed.
6. Using scissors, carefully cut out the louver template and verify it is the same size as the louver.
7. Locate the supplied louver templates on the hood in the proper orientation and the front 2-4" behind the back of the radiator mark.
 - Templates: For louver pairs two of the same templates are provided. Simply flip one over for the left and right sides.
 - Center hood louvers should start 2-4" behind the radiator and centered on the hood.
 - Side hood louvers should start 2-6" behind the radiator and centered approximately between the engine and strut towers.
 - If two hood extractor kits are used or a second kit will be added in the future, the fronts should be aligned with each.
8. Using a marker carefully mark the inside perimeter (cut line) of the template onto the hood. Note, there must be a 1/2" wide area around the outer perimeter for the 3M VHB tape to adhere to.
9. This is your cut line.

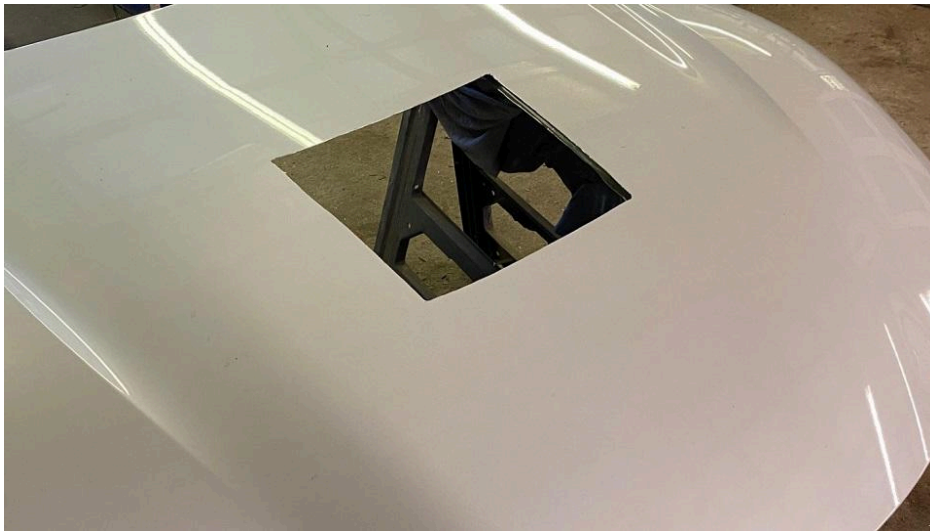
Removing the Hood

1. Using necessary tools carefully remove the hood from the vehicle.
2. Place the hood on a suitable work surface such as a bench or saw horses using cushions to prevent damaging the painted surfaces of the hood.
3. Remove any underside insulation.
4. Cover the remaining parts of the hood for protection.

Cutting the Hood

Note: When removing hood structure the perimeter, latch and hinge support structure should remain unaltered. If altering these we recommend hood pins be used.

1. Use a drill with a $\frac{3}{8}$ " drill bit to drill holes, 1 at each corner just inside the cut line so once the perimeter is cut the corners will be rounded.
2. Using a reciprocating saw, jig saw, cut off wheel or similar tool, carefully cut out the perimeter including any support structure on the bottom.
3. With the same cutting tools remove more support structure on the bottom around the louver perimeter for airflow clearance. We recommend 2" of forward clearance and 1" on the rear and sides.
4. Place the louvers on the cut hole and check fitment. Trim the cut hole as needed to get proper fitment. There must be a $\frac{1}{2}$ " wide area around the outer perimeter for the 3M VHB tape to adhere to.
5. Using a sanding drum or file, smooth out all cut and drilled edges.
6. Clean the hood and remove masking tape.
7. Paint all cut edges by spraying paint on a q-tip and rolling it on the cut edges or brush it on with touch up style paint. Allow to dry.



Reinstalling the Hood

1. Using necessary tools carefully reinstall the hood on the vehicle.
2. Slowly close the hood checking fitment and gaps. Adjust as needed.
3. Close the hood and verify the hood latches properly.

Installing the Louvers

Note: Do not permanently install louvers with 3M VHB tape under 50F.



1. Using the supplied alcohol wipe, clean the hoods surface where the louver will be installed.
2. Temporarily place the louvers in their mounting location on top of the hood and check fitment within the hood. Make sure the front cut hole edge is aligned with the front slot on the louver. Make sure there is sufficient clearance between the louvers and any engine compartment components.
3. With the louvers temporarily on the hood install the supplied mounting jig around the outside of the louvers and tape the jig to the hood. This jig will guide the louver in place during final installation.
4. Permanently install the louvers by removing the backing on the 3M VHB tape and **CAREFULLY** lowering the louver into place using the installation jig as a guide.
5. Remove the installation jig.
6. Make sure the louver is located on the hood properly.
7. Firmly press the outer mounting flange of the louver down onto the hood making sure the adhesive tape is fully engaged with the hood's surface.
8. Allow the adhesive tape to bond to the hood overnight at room temperature before using the vehicle.

Setting Up the Louvers

Race Louvers hood louvers can be set up for maximum cooling, maximum front downforce or anywhere in the middle by changing the size of the front grill opening. Race Louvers sells a Grill Blocker Kit to compliment our louvers.

Maximum cooling

1. Simply use the OEM front grill opening for maximum cooling setup.

Maximum front downforce

1. Add 1 piece of masking tape to the outside edges of the front grill opening to restrict the airflow and operate the vehicle. **DO NOT OVERHEAT THE VEHICLE.**
2. Repeat step 1 until coolant temperatures increase above the thermostat temperature rating. Remove 1 piece of masking tape and this would be the maximum front downforce setup.

Compromise between maximum cooling and maximum front downforce

1. Simply restrict the front grill opening size somewhere between maximum cooling and maximum front downforce.

After a desired setup is reached, tape can be removed and reinstalled as needed or a more permanent part can be used such as a smaller front grill or grill blockers.

Congratulations! Your Race Louvers are now installed.