



Hood Vents

Installation Guide (HV- Series)

These HV- Series Hood Vents are designed to fit any suitable vehicle. They are a great looking and durable way to increase engine ventilation. Our Hood Vents help keep out rain, ice, snow, sunlight, water, and debris from the engine bay and sensitive engine electronics.

General Guidelines

These hood vents are custom made.

- Inspect them carefully to make sure they meet your expectations.
- There may be an occasional nick, scuff, or scratch.

Read this *Installation Guide* before starting the install.

- Text, call, or email if you have any questions.
- Contact information is at the end.

If you want to paint the Hood Vents then fit them to the hood of the vehicle first.

- See the General Paint Information at the end.

Be safe and don't rush.

- Protect the other painted surfaces and the windshield from flying sparks and debris.
- Wear safety glasses, face shield, gloves and other protective equipment as needed.
- Know how to use the tools and make sure they are working properly.
- Follow all necessary safety procedures.
- Protect the engine bay & sensitive electronics from sparks and grinding debris.

Parts List

- Two Hood Vents - one left, one right
- 8 S/S Phillips screws with S/S washers
- Phillips tip driver
- Installation Guide

Suggested Tools & Materials:

- | | | |
|--------------------------|---------------------|--------------------------|
| - safety glasses | - face shield | - mechanics gloves |
| - utility knife | - pencil and marker | - masking tape |
| - fine metal file | - drill & 3/16" bit | - jig saw w/metal blades |
| - straight edge 3' to 4' | | |

General Preparation

1. Make sure the engine is cool to the touch.
2. Remove existing hood vents if using HV-LB Hood Vents that are designed to fit over top of the old Lebaron hood vents holes.
3. If cutting of the hood is required then cover the engine and windshield for protection.
 - a. Sparks from a grinder will pit the windshield.
4. Use masking tape to protect the paint around the work area.

Placement

5. The Hood Vents can be placed in any suitable location on the hood of the vehicle.
 - a. Make sure the Hood Vents are placed symmetrically.
 - b. A long straight edge helps with placement.
 - c. Surface mounted Hood Vents can be placed over the structural supports for the hood but it is usually best to locate the Hood Vents where they don't interfere with the structural supports.

6. Position the first Hood Vent exactly where it will go.
 - a. Put masking tape on the hood in the areas where the Hood Vents will be installed. This protects the hood and provides a clean surface for marking.
 - b. Use the center line and edges of the hood as references.
 - i. Measure from the corners of the Hood Vent to key locations on the hood.
 - (1) A long straight edge may be useful for locating the Hood Vents.
 - ii. Use those dimensions to place the second Hood Vent.
 - iii. Confirm the Hood Vents are visually correct.
 - iv. Outline both positions with a pencil or marker.

Cut Vent Holes

7. Cut two vent holes in the hood of the vehicle.
 - a. Make sure the engine bay is cool and protected from cutting blades, sparks, and flying chips of hot metal.
 - b. Use the Hood Vent location outlined above.
 - i. Use a straight edge and mark the approximate 1 1/2" inside of the outline of each Hood Vent.
 - ii. Confirm that the Hood Vents properly cover each hole, are still perfectly placed, and there is enough sheet metal for the screws to contact.
 - iii. Carefully cut each hole with a jig saw or similar fine blade cutting tool.
 - (1) Don't cut through the structural supports for the hood.
 - c. Use a metal file to take off the sharp edges.
 - d. Prime & Paint the cut edges to prevent rust.

Install Hood Vents

8. Reposition Hood Vents based on previous outline.
 - a. Confirm that the placement is correct and looks right.
 - b. Mark the screw holes with a pencil or marker.
9. Mount first Hood Vent (use 3/16" drill bit)
 - a. Drill only one 3/16" hole in the sheet metal for the first screw.
 - i. Loosely insert screw & washer
 - ii. Adjust position as needed
 - b. Drill second 3/16" hole in opposite corner of Hood Vent
 - i. Loosely insert screw & washer
 - c. Confirm placement and adjust as needed
 - d. Drill remaining 3/16" holes and insert screws & washers. Snug all screws.
10. Mount Second Hood Vent
 - a. Double check all dimensions used to perfectly locate second hood vent
 - b. Follow same steps as above to mount second Hood Vent
11. Remove protection from engine bay & tape from hood.
12. If desired, Hood Vents can now be removed and painted.

Enjoy the look and improved ventilation with the new Hood Vents!

Note: Do not use Acetone or similar solvent based cleaners. Acetone will dissolve ABS plastic.

Technical Assistance: <jdougn@napierprecisionproducts.com>
502-727-8348 9:00am - 5:00pm Eastern Time
www.napierprecisionproducts.com

GENERAL PAINT INFORMATION

Painting the HV-Series Hood Vents is not difficult and will maximize UV resistance to prevent fading or chalking of the ABS plastic. It is best to install the Hood Vents first then remove them for painting. Here are some recommendations that have worked well.

Dupli-Color spray paints are readily available and they have some products that work well in preparing and painting the ABS plastic Hood Vents. Any quality spray paint made for plastic should work.

(Always follow the instructions on the products and paint you plan on using. They take priority over this general information.)

Preparation: (Do not use Acetone or similar solvent based cleaners. Acetone will dissolve ABS plastic.)

- Clean and dry the Hood Vents thoroughly.
- Use a “Grease & Wax Removal” product to clean the surfaces. Wipe with a lint free cloth.
- Use red Scotch Brite scuff pad on all areas to be painted.
- Wipe of any dust with a lint free tack cloth.
- Repeat this process if there is any doubt that any finger prints, grease, oil, or residue remain.
- Use dry compressed air to remove remaining dust.

Prime/Paint

- Work in a dust free area with plenty of ventilation.
- Use a plastic adhesion promoter as a primer.
- Use spray paint designed to work with plastic.

If there are any questions about painting these fender flares please consult the product details for that specific product.

Return Policy

- *If you don't like what you see when you receive your order feel free to contact us for a return authorization.*
- *To receive a full refund, all items must be returned including the installation guide and any related hardware or edge trim.*
- *Items must be returned in original protective packaging. The buyer is responsible for ensuring that the items are returned to Napier Precision Products in original sell-able condition. The items cannot have been installed, painted, trimmed, or be dirty.*
- *Refund will be made using the same method as payment. Refund will be issued within 5 business days of the returned order being received by Napier Precision Products.*
- *Buyer pays shipping costs. Buyer is responsible for insuring the shipment. Returns damaged in transit are the Buyers responsibility.*