

# Welcome to C4orceCorvettes.com

Home of the Big Mouth

## **Install Notes for C5 Corvettes**



For Install Assistance Contact Us Anytime  
PH: 864-335-9043

## **Additional information**(updated 05/23/2011)

Constructed of strong 50502 grade aluminum, the Big Mouth Performance Air Dam (BMAD) , by C4orceCorvettes.com is a quality engineered and produced one-piece aerodynamic air scoop that both enhances the Corvette's ability to grab and move a larger volume of focused air into the radiator opening under the nose and adds an aggressive, racy appearance to the lines of the C5 and C4 Corvette.

Weighing in at 3 lbs for the C4 and 3.2lbs pounds for the C5 model, the BMAD sits under the nose of the Corvette at the opening of the radiator. It assists the channeling of air into the air inlet by replacing the Corvette's stock center piece plastic air dam.

The BMAD is a true easy "bolt on" modification that can be installed permanently or temporarily. NCRS and Bloomington Gold purists will enjoy the fact that it can be mounted without body or frame modifications. Road racing and auto cross enthusiasts will find that when their corvettes are outfitted with the BMAD, their motor's operating temperatures will be lower and enhance recover times are crucial. Actual test run on the Corvettes fitted with the BMAD have shown a 3-5 degree drop in operating temperatures.

The C4 and C5 Big Mouth Performance Air Dam is not designed to installed on lowered corvette's. Installing the Big Mouth Performance Air Dam will be at your own risk. We have superior customer service for any and all install questions that you may have. Call our support line at anytime 24/7 at 864-335-9043 we would be happy to assist.



With Regards,  
Gman- CEO / editor

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The install can be achieved at home with some basic tools in approximately 45minutes.

We recommend that you raise your corvette and you do a dry fit first to better understand the process. Your first option is to remove the factory center spoiler for a much better fit. This is not necessary if you are not so inclined. If you have any question at all please give our assistance phone service a call at 864-335-9043 anytime we can help.

1. Two options are available :
  - 1) Quick release bushings, Maximum angle
  - 2) Semi permanent, adjustable angle

Tools:

- 1) Drill
- 2) 2 Bits 7/32 and 1/4
- 3) Philip's head screw driver
- 4) 3/8 wrench or socket
- 5) white pencil or white out
- 6) small level

First Step:

Unpack the Big Mouth Air Dam and observe the hardware order, you also notice the special Tree nut on the back and front bolts assembly along with the removable bushings .

Dry Fit:

Remove all the hardware and insert the Big Mouth in between the two skid bars. Push the BMAD all the way back and lay it on to your factory spoiler and see that it is level with the bottom of your skids at the same angle.

Setting the Angle:

Starting with the back holes and setting the angle. Lift the back of the BMAD off your factory spoiler 1/4 to 1/2 inch, and 1/16 to 1/8 above the bottom of skid bars. Mark the back holes only for drilling.

Note: Extra pair of hands helps

7/32 bit to drill the two back holes



After drilling the back holes re-insert the BMAD and line up the holes , put the bolts ( screw cover on the outside ) in and tighten up the tree nut ( tree nut stem goes into the BMAD and stops at the skid bar. Follow up with the stop nut until tight.



### Front Holes:

Now the front of the Big Mouth should be adjustable up and down by hand. Lift the front of the BMAD until it is following the skid bar line of angle ( this should be at the upper most position ) keep mind with out the bushings we can adjust the angle manually. Mark the front holes in the middle of the slotted holes on the skid bars for drilling. Our goal is to achieve approximately a 16-18% angle in pitch but most important to check the angle going to your radiator.

We want to angle the back flang to point at the radiator but not touching.

### Note:

If you use the bushings the BMAD will hang at the maximum angle and will not be adjustable , but it will release upwards using the bushings in case of a minor bump.

Once you drill the front holes insert the bolt assembly and tighten. Adjust the angle according to your preference all the way open for aggressive or flatter for street driving



Angle is flat with Factory spoiler



Removed Spoiler/ w/Roller frames



Perfect Install