

## Sherpa Blockhead Fan system for Voron 0.1

M Meatball

[VIEW IN BROWSER](#)

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### Summary

This is a replacement for the stock Mini Afterburner on the Voron 0.1 using the Mini Sherpa extruder

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As I finished up the build of my Voron 0.1 I of course printed the Mini Afterburner. I found the assembly to be difficult and the entire time I had visions of taking it completely apart for any maintenance. After doing some research I found the [Mini Sherpa](#) and fell in love with its simple but well engineered design. I printed the Mini After sherpa and it was OK, but I knew I could do better. I opened Fusion360 and started designing. The Sherpa Blockhead is the result. I designed this for ease of maintenance with removable fan shrouds while leaving the hotend mounted.

This design currently supports the Mosquito or Dragon Hotend. I plan to update it for the Voron specific hotend soon. It is designed to use heat set threaded inserts for all of the screws, [this style is my favorite](#). It mounts to the stock V0.1 gantry

### Parts Needed

Printed and assembled Mini Sherpa

Body and sides

2- M3x6mm BHCS or SHCS (blower sides)

2- M3x8mm BHCS or SHCS (blower front)

2- M3x25mm BHCS or SCHS

Mounting Mini Sherpa

2- M3x12mm

6- M3x5x5 Threaded inserts

21mm length of bowden tube

1. Print all the parts in ABS or ASA

2. Inserts go into the main body part on the sides and top of the body

3. Mount the body onto the X Carriage using the M3-25mm BHCS

4. Mount the Hotend to the body

5. Put the fans in the blowers, and mount them to the body using the M3x6mm BHCS

6. Put the bowden tube section into the body and down to the hotend entrance

7. Mount the mini sherpa on top

Route the wires and Happy Printing!!

## Model files



**main\_body\_mosquito.stl**



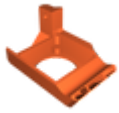
**right\_blower\_mosquito.stl**



**left\_blower\_mosquito.stl**



**main\_body\_dragon.stl**



**right\_blower\_dragon.stl**



**left\_blower\_dragon.stl**

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