



## Modified and enlarged ducts for SV06+ and double 5015 fans.

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## Summary

MISTRAL: Upgraded to 0.6 Volcano nozzle with klipper, needed to maximise cooling. Had two 5015 fans so what the hay.

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### Update:

- Rev2.3 z4.0mm and z2.0mm versions
  - z4.0mm suitable for Volcano nozzle and any other nozzle
  - z2.0mm only for Stock or similar (K1) nozzle
  - ducts moved a bit further from sock. Should be ok for PLA.
  - Redirected for more towards plastic to give bigger cooling spread.
- Rev2 - repositioned couple of the duct vanes that were out of position a bit
- Added a single 5015 fan connector, should be good for a decent single 5015 fan.
- Added modified LED mount
- Rev2.1 [https://www.printables.com/@MaydayVFR\\_950289](https://www.printables.com/@MaydayVFR_950289) requested some extra clearance. Added z4.0mm revision. Where z is height

above stock nozzle. A K1 is at +0.5, Volcano +2.5 in theory. In practise it varies i think my Volcano clearance is tighter.

Upgraded to 0.6 Volcano nozzle with klipper and needed to maximise cooling. Had two cheap 5015 fans so what the hay. Uses the same Ammonite mounts as I like the click on concept of this mount with option to bolt it on.

Redid the Amonite duct, which I liked, to take advantage of the extra room with the SV06+ head and give a bit more clearance. Also set level higher to suite shorter volcano nozzle. Standard nozzle might give better flow. Tried to keep a consistent area and prevent bends causing vortex's. The gap between the 5015 doesn't restrict flow.

I've managed a 22 minute benchy using the 0.6 nozzle with only minor quality loss. The bow is the cooling limit. I'm sure with more slicer optimising you could go under 20 and quicker with 0.4 nozzle.

- 0.75 walls to keep weight down and give 2wall thicknesses for toughness.
- Recommend Petg or better. PLA ok if only not printing at high temps.
- No supports.
- M3 panheads, countersunk or glue to join halves.
- Stiffened to reduce flex.

## This remix is based on



### **The Amonite - Sovol SV06 Fan Duct Dual 5015 Blower Fan V4**

by Leander Perez Blanco

## Model files



### **fan\_duct\_airguide\_r23\_z40.stl**

☐ z 4.0mm above stock nozzle to suite shorter Volcano, will work with stock nozzle

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### fan\_duct\_airguide\_r23\_z20.stl

☐ z 2.0mm above stock nozzle, not suitable for shorter Volcano

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### fan\_duct\_dual\_fanconnector\_r22.stl

☐ Dual 5015 fans

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### fan\_connector\_single5015\_r2.stl

☐ Single 5015 Fan

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### fan\_connector\_single5015\_r2.step



### sv06-plus-vortex-led-mod10mm.step

☐ LED lighting mount

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