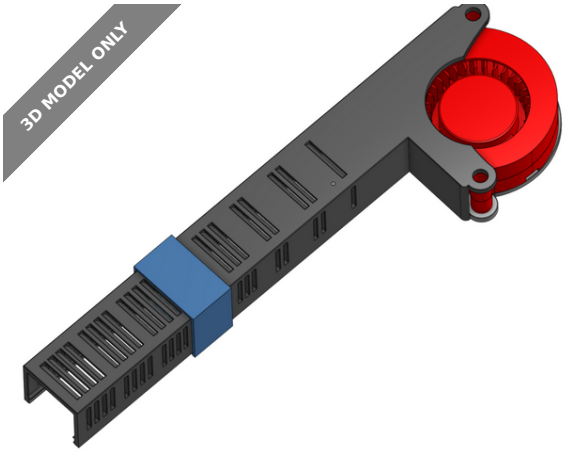


Ultra Cool BTT Octopus Stepper Driver Fan Duct

SimplifiedLife

VIEW IN BROWSER

updated 26. 6. 2023 | published 26. 6. 2023

Summary

Update to the BTT Octopus 5015 Stepper Fan Duct by mbrady with bigger vents, thicker top, a wider fan hole & fan support

3D Printers > 3D Printers - Upgrades

Tags: btt bttoctopus duct octopus stepper steppercooler

I love this design by mbrady because it sends air where you want it, rather than randomly blowing it away like the top down models do.

I oriented my Octopus so this blower shoots the air straight out the back of the base. I used a nice quiet 5v 5015 and simply switch it on when the steppers are on.

When I printed the original stepper duct the first time I felt it was a little flimsy (even though it works fine). It was also noiser because the mounting rigidity. I wanted to more securely attach the fan. I also wanted slightly bigger vents on top of the duct and also wanted to remove part of the support that reduced the air intake for the blower fan. I added a couple of extra walls and increased the thickness of the top for strength. I did a few tweaks to improve ease of printing. I made it so the slip covers fit more

securely and lock in place. So with a few updates, this is my remix. Make sure to put covers on and spacers under to keep the air powering through.

Printing

Printed in ABS with standard Voron print settings. I used M3 x 25mm with two m3 nuts to secure the fan and then slide onto the Octopus Pro.

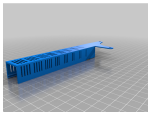
Print the duct and the fan cover, a couple of slip covers and a base filler if needed.

I don't use the very first stepper, if you do, you may need to trip the base in your slicer.

Quote from original design by mbrady:

> V2.0
> Fan duct made to snap on over stepper drivers. Progressive venting for more even flow. There are 3 pieces included: the duct itself, and a cap and bottom place holder for any stepper spots not used. The duct should easily pop into place, gripping the pcb of the steppers. The cap will clip onto place over the respective vent holes while the bottom part will slide into place along the stepper holder channel to its respective position. Fusion360 file included. Attach the 5015 fan with 3mm screws and nuts. The high airflow increases thermal efficiency by about 4x.

This remix is based on



BTT Octopus Stepper Driver Fan Duct 5015

by mbrady6

Model files

octopus_stepper_duct-v3.stl

octopus_stepper_duct-fan-base.stl

slip-cover-v3.stl

empty_place_filler.stl

original from mbrady

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