AD5X enclosure modified by HJCP69

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VIEW IN BROWSER

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Summary

modified from FlashForge orginal to be taller and better enclosed allowing free movement of the PTFE tubes.

3D Printers > Other Printer Parts & Upgrades

Tags: enclosure better taller ad5x hotter

Improved taller enclosure for the FlashForge AD5X. These alternate parts and additional parts increase the overall height by 64mm, this gives proper room and clearance for the PTFE feed tubes, There is also a cowl that installs over the IFS unit replacing the right hand side upper perspex panel, this allows the tubes free and full movement instead of being constricted by passing through the small slot in the perspex panel. Additionally it better encloses the printer and improves chamber heat retention.

Start by downloading the official new version 3mf from flashforge https://wiki.flashforge.com/en/ad5x/Files_for_printed_parts

Original parts A2, B2, C2, D2, A3, B3, C3, D3, are replaced with the files prefixed with “new” e.g. “new-A2-HJCP.stl” these print great on the 5x in PETG with standard settings and require no supports id suggest gyroid infill 15% if your using any kind of transparent or translucent filament. I've uploaded them all as separate stl's but you can group them together four

at a time on a print plate, i choose not to just in case of a print failure - overall print time is the same either way.

New extra files “models” are "IFR-Cowl-HJCP.stl" - “Infil-Cowl-HJCP.stl” - “Infil-FLR-HJCP.stl” Print just one of the infill-FLR-HJCP.stl as it includes 3 infill panels in the one file. These parts are long and tall and on the AD5X are oriented diagonally in order to fit on the bed, if using PETG they will want to warp and even with good bed adhesion they may lift corners of the bed, so i would recommend they be printed in ultra-PLA or PLA-HT I had good results with Creality hyper-PLA see the orange parts in the pictures. alternatively they can be printed on a larger enclosed printer like the Qidi Q2 where heat and a bigger bed mitigate the warping and can then be printed easily in PETG. Supports are not required should be fine without brims, but add brims or mouse ears for peace of mind if you like.

If you have already printed the enclosure and want to upgrade to this version and have access to a printer with 240mm or more in the Z direction then only A3, B3, C3 and D3 need to be replaced with the attached files prefixed “BIG” e.g. “Big-A3-HJCP.stl”

When assembling follow the Flashforge instructions, the 3 infill panels slot in above the front, left and rear upper perspex panels, the single infill and cowl slot in, in place of the right hand upper perspex panel, you will need to detatch the PTFE tubes from the extruder with the splitter/collector and pass it through the bottom of the cowl before fitting it back to the extruder.

I'm recently re-entering the 3D print hobby and this is my first time sharing, i hope to continue to do so. If you find any issues or problems PLEASE let me know ill endeavour to correct and improve, Thanks

This remix is based on

Files For Printed Parts

Model files

ifr-cowl-hjcp.stl

infill-cowl-hjcp.stl

infil-flr-hjcp.stl

new-a2-hjcp.stl

new-b2-hjcp.stl

new-c2-hjcp.stl

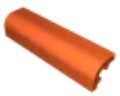
new-d2-hjcp.stl

new-a3-hjcp.stl

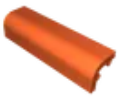
new-b3-hjcp.stl

new-c3-hjcp.stl

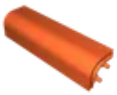
new-d3-hjcp.stl



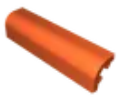
big-a3-hjcp.stl



big-b3-hjcp.stl



big-c3-hjcp.stl



big-d3-hjcp.stl

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