

2020 Panel Corner Clip Hinge, rotates 180 degrees (based on Voron)



AzaB2C

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Summary

2020 Panel Corner Clip Hinge (based on Voron). Made for my V1E 3D Printer, details @ <https://forum.v1e.com/t/37251/216>

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23-08-06 NOTE: Am NOT using for my build. I ended up creating and sharing a newer alternative that limits rotation to 90 degrees, uses M5x30mm. Details, pics and video at <https://www.printables.com/model/546086-2020-panel-corner-hinge-rotates-90-degrees-voron-b>

Was looking for 2020 hinges that can also hold/protect 1/8" (3mm) panels attached to both the top lid panel, and bottom back panel. Hinges need to support Lid weight, and resist twisting/shear forces from the Dampers/ Struts.

Looked at various designs, ended up forking https://github.com/VoronDesign/Voron-Trident/blob/main/STLs/Panels/corner_panel_clip_4mm_x8.stl

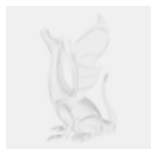
Note: Printed using Overture Transparent Red PETG. Ensure your bridging settings are dialed in for the corner overhang.

Parts:

- M3x30mm button head bolt
- M3 T-Nut
- 6x M3x10mm button head bolts
- 6x M3 Roll-in nuts. Couldn't use slide-in nuts since they're too large to fit in couple of spots where perpendicular 2020 extrusions meet, partly because of the interior 1/16" thick panels sandwiched between the X and Y 2020. Although M3 T-Nuts might fit, they won't hold Lid as securely/reliably. So... Used Roll-in nuts.
- Print aza-hinge-top.stl and aza-hinge-bottom.stl parts here, or at [Github](#).

Details about the V1 Engineering MP3DP v4 based 3D Printer this was designed for at <https://forum.v1e.com/t/mp3dp-v4-azas-build/37251/216?u=azab2c>

This remix is based on



Model files



aza-hinge-top.stl



aza-hinge-bottom.stl



aza-hinge.3mf

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