

Magnetic Backplate for Voron V0.2



reemo3dp

[VIEW IN BROWSER](#)

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Summary

A magnetic backplate for the Voron V0.2, that can be printed on the Voron 0.2. Optional fan support.

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Tags: [backplate](#) [voron](#) [v0](#) [voron0](#)

This is a magnetic backplate for a Voron V0.2 that replaces only the lower rear panel. It can be printed on a voron 0.2 itself and fastens together with clamps.

Depending on your printer, some tolerances might be too tight and need some light sanding. Only the shoes require some support for clean magnet holes. Simply screw through any fan holes that are covered.

V2.2

- Increased fan screw hole outer diameter to 7.4mm so fan screws sit flush
- Added One Piece Models

V2.1

- Added mesh templates for all backplates – print with only infill and fixate with clamps and glue
- Added support for NF-PL14

V2.0

- Versions for internal 4010 and 8010mm fans - easier to print and don't protrude outwards!
- 80mm external now comes pre-supported (just print as is and screw through the thin layer under the screwhole)
- ZipTie mounting holes for fan wiring
- USB cable holes on all sides
- M3 Hole for additional mounts (tbd)
- Completely covers the whole backpanel
- Clears with URBI BTT SFS v2

Old shoes and clamps are compatible with V2 and can be reused.

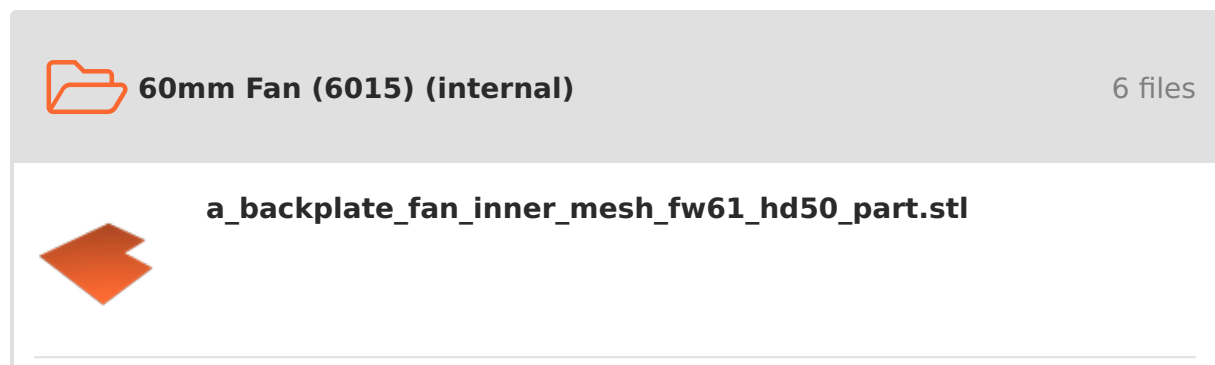
Hardware Parts

- 4x M3x6 BHCS for mounting the shoes
- 2x M3x30 BHCS for extending the spoolholder
- 8/16 Magnets 6x3mm round (you can probably get away with half of them)
- Optional: 80mm Fan, e.g. Noctua NF-A8 PWM, 4010 or 8010 fans

Credits for Fan Models:

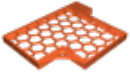
- <https://grabcad.com/library/noctua-nf-a9-14-1>
- <https://grabcad.com/library/noctua-nf-a8-pwm-80x80x25-1>
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Model files





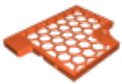
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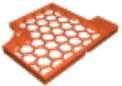
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backplate_fan_inner_fw61_hd50_part.stl



80mm Fan (8010) (internal)

6 files



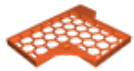
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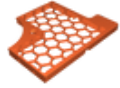
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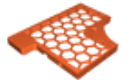
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backplate_fan_inner_fw81_hd715.stl



backplate_fan_inner_fw81_hd715-1.stl



40mm Fan (4010) (internal)

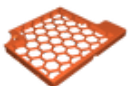
5 files



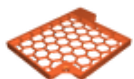
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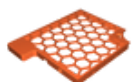
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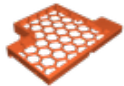


60mm Fan (6015) (external)

5 files



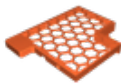
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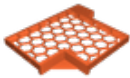
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backplate_fan_outer_fw61_hd50_fd12_part-2.stl



80mm Fan (external, for 25mm depth)

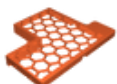
5 files



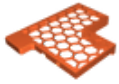
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backplate_fan_outer_fw81_hd715_fd12-3.stl



backplate_fan_outer_fw81_hd715_fd12.stl



backplate_fan_outer_fw81_hd715_fd12-2.stl



80mm Fan (external, 25mm depth, one piece)

2 files



backplate_fan_outer_fw81_hd715_fd12.stl

backplate_fan_outer_fw81_hd715_fd12.step



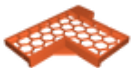
92mm Fan (external, 82.5mm hole spacing, for 25mm depth) 5 files



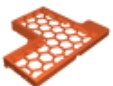
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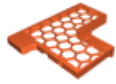
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backplate_fan_outer_fw93_hd825_fd12.stl



140mm Noctua NF-P14 FLX (ext, 105mm hole spacing)

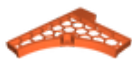
5 files



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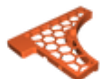
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backplate_circular_fw142_hd105_fd12.stl



Common Parts

7 files



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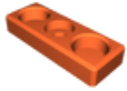
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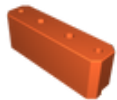
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a_clamp_vertical_top_x2.stl



a_shoe_x4.stl



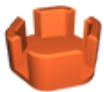
spool_holder_extension.stl

spool_holder_extension.step



No Fan

7 files



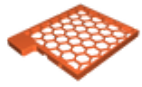
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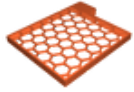
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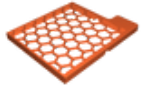
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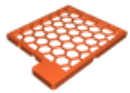
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backplate_plain_top_right.stl



backplate_plain_bottom_right.stl



backplate_plain_bottom_left.stl



One Piece Models

17 files



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a_backplate_fan_outer_mesh_fw80_hd715_one-piece.stl



a_backplate_plain_mesh_one-piece.stl



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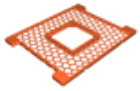
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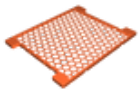
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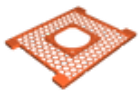
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backplate_plain_one-piece.stl



backplate_fan_inner_fw81_hd715_one-piece.stl



backplate_fan_inner_fw41_hd32_one-piece.stl



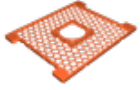
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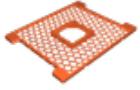
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backplate_fan_inner_fw61_hd50_one-piece.stl



backplate_fan_outer_fw61_hd50_fd12_one-piece.stl

magnetic-backplates-v22-split-for-v0.step

magnetic-backplates-v22-one-piece.step

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