

MiniSB - Sherpa Mini Assembly Manual



About this manual

This manual will guide you through the assembly of the Mini-Stealthburner Sherpa Mini Extruder Mount.

This manual assumes that you already know how to build a standard Mini-Stealthburner. If you don't, read the V0.2 Assembly Manual first.

Printed Parts

The STL-Files use the same naming system as the official Voron STLs, e.g. [a] denotes a part to be printed in accent-color, _xN denotes how many copies should be printed where "N" is the quantity.

Depending on your setup you want the "standard" strain relief plate or the umbilical plate if you are using Timmit's umbilical PCB. The spacers are the same for both, however depending on which motor you use you will need a different spacer length:

- LDO Motor: 21.85mm
- Moons Motor: 21.35mm

Spacers are provided in both a octagon shape and a round shape. The octagon spacers print along the layer lines and thereby have increased strength and are preferred over the round shape. Both Versions will work so choose whichever you like, this manual will only show octagon spacers for clarity.

Part	Quantity	Notes
M3x5x4 Heatset	6	
M3x35 BHCS	2	
M3x22 BHCS	1	M3x25 + M3 Washer also works
M3x16 BHCS	2	
M3x8 BHCS	2	
M3x6 BHCS	2	
M3 Hexnut	1	
3010 Axial Fan	1	
3010 Blower Fan	2	
Hotend	1	There are a number of supported Hotends, check the V0.2 GitHub for options
Sherpa Mini Extruder	1	
Additional Parts for Umbilical PCB		
M3x6 BHCS	2	

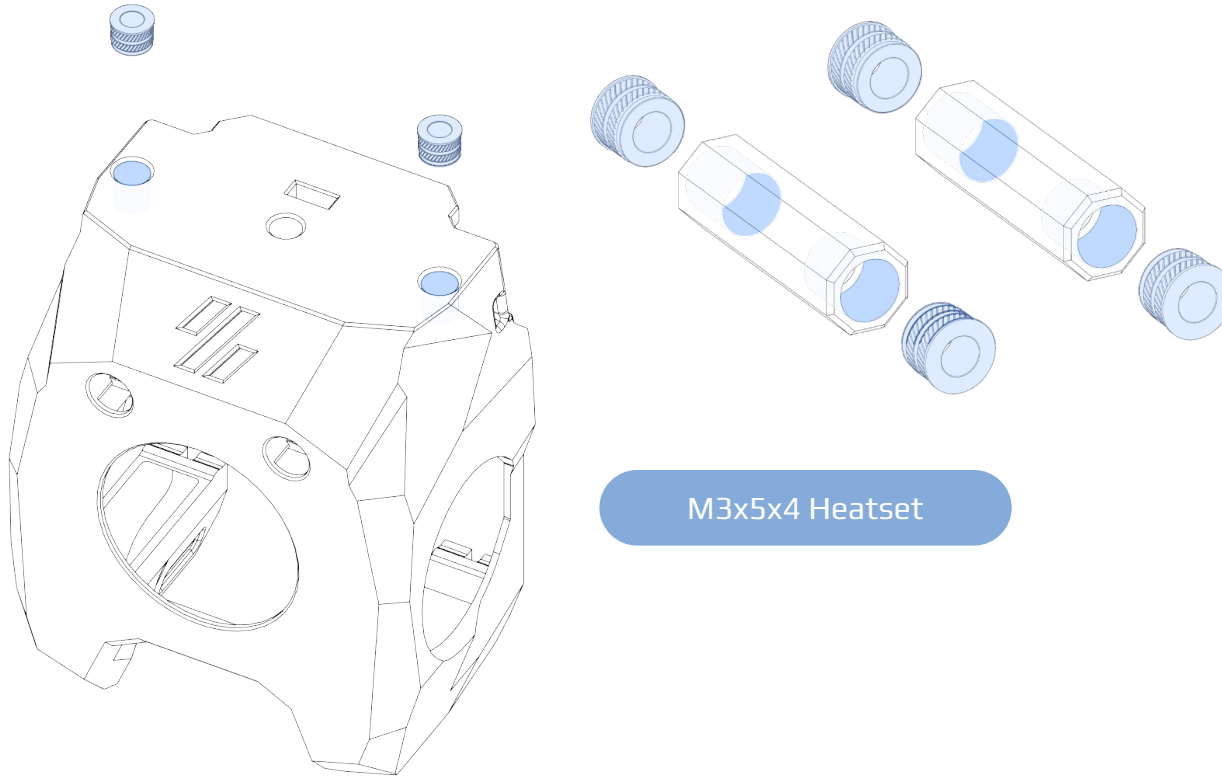
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Heatsets

Round vs Octagon

The octagon spacers tend to be stronger than the round spacers. Because of this they are the recommended spacers and will be used throughout this manual.

The assembly process is exactly the same with either variant.

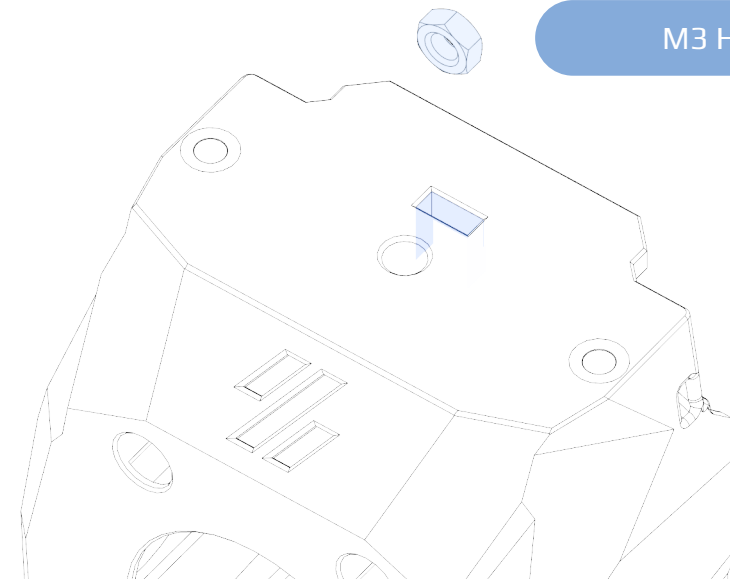


M3x5x4 Heatset

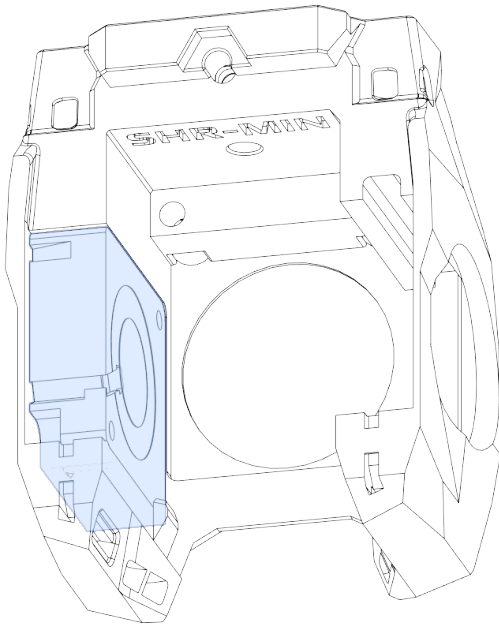
Different Cowling

This Manual will use the “minified” variant of the cowling for better clarity.

However the assembly process is exactly the same with the “standard” cowling.



M3 Hexnut



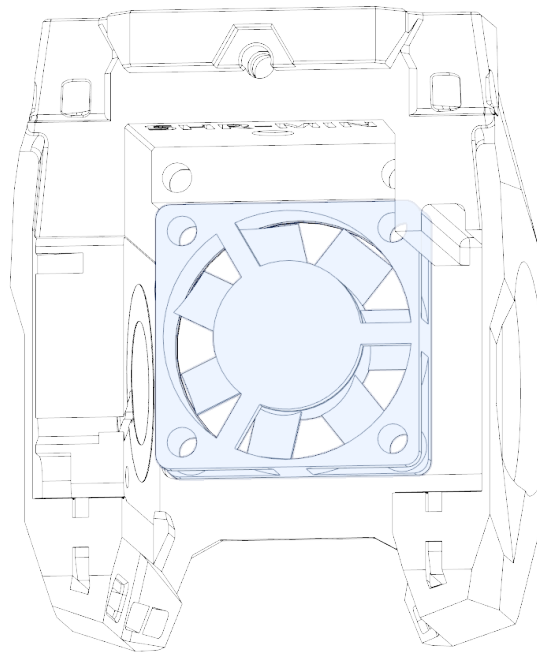
3010 Blower Fan

Fans

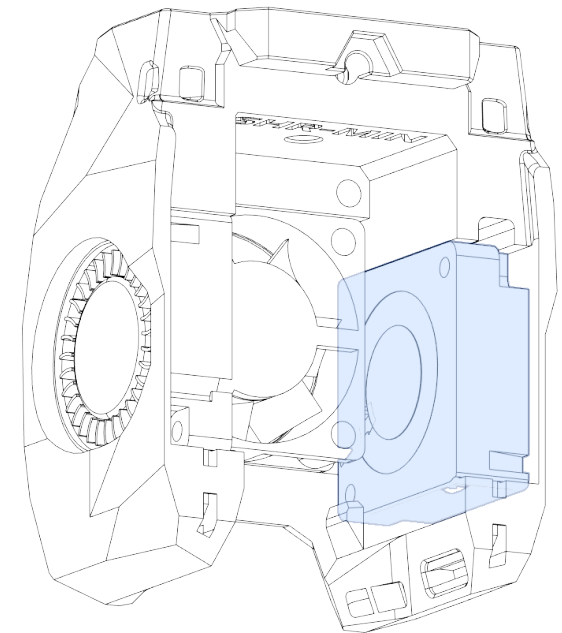
Install all the fans by sliding them in, just like with a normal Mini-Stealthburner.

Route the wires along their intended cutout.

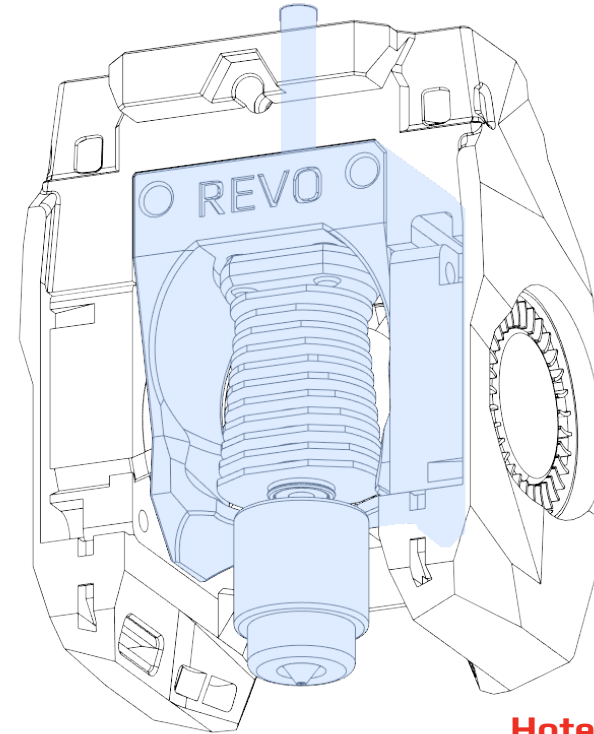
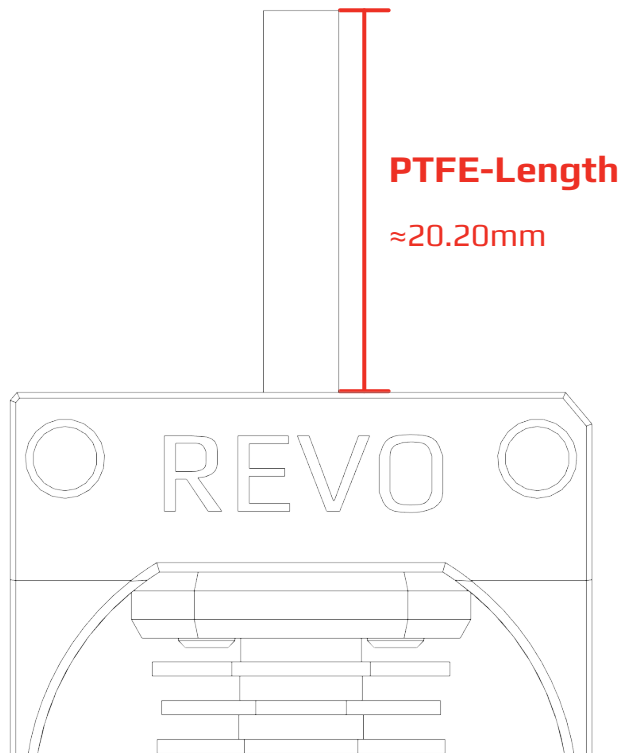
When in doubt check the Voron V0.2 Manual.



3010 Axial Fan

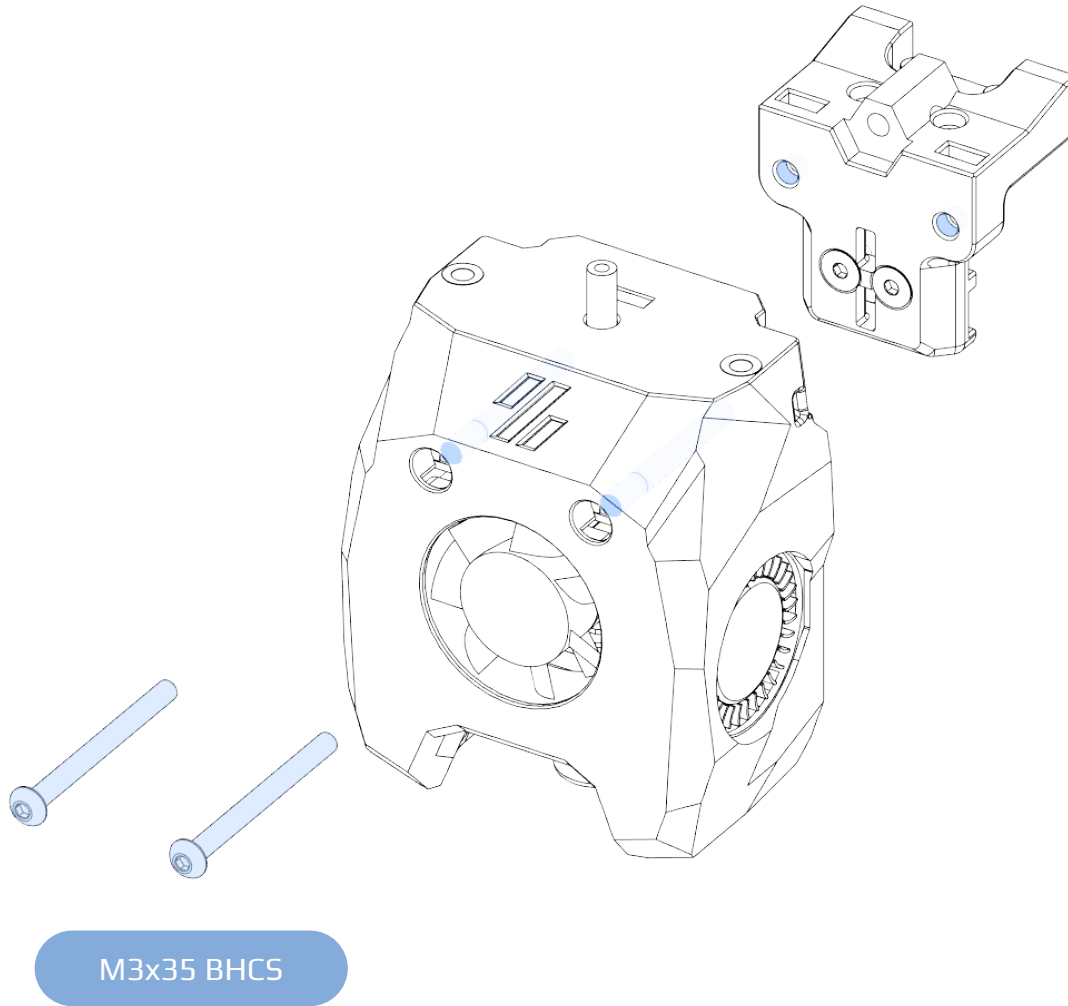


3010 Blower Fan



Hotend
Install your Hotend.

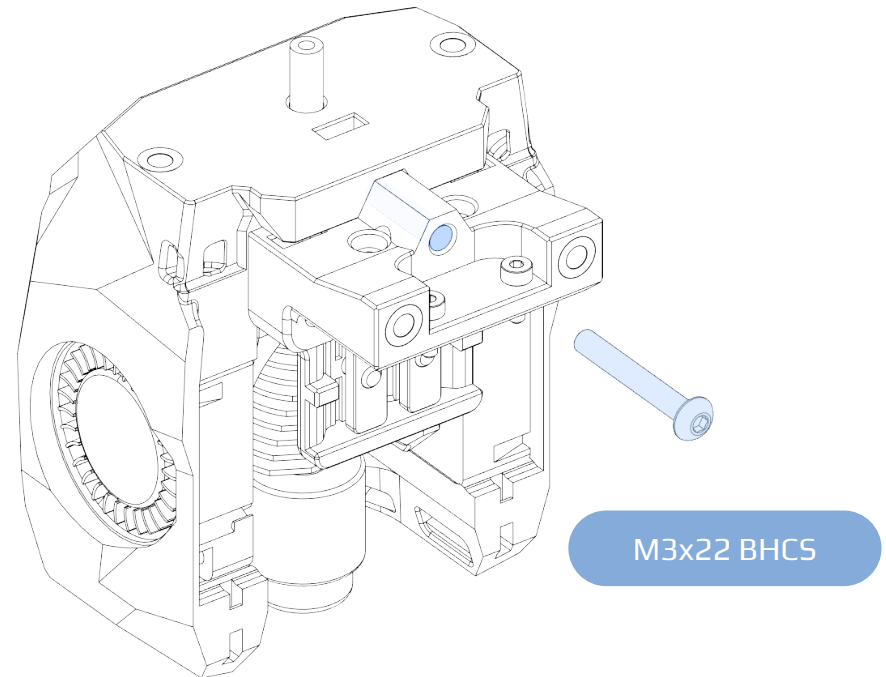
Make sure your PTFE-Tube is
the right length.



No X-Axis?

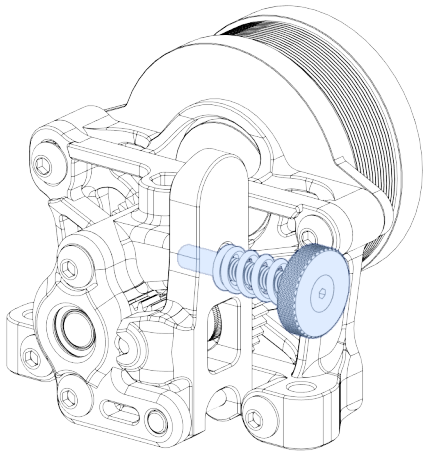
For better visibility and CAD-Performance the x-Axis is not depicted in this manual.

The X-Carriage should already be installed and the belts run and secured.



Out of M3x22 Screws?

If you don't have any M3x22 on hand a M3x25 BHCS plus a M3 Washer will also work.

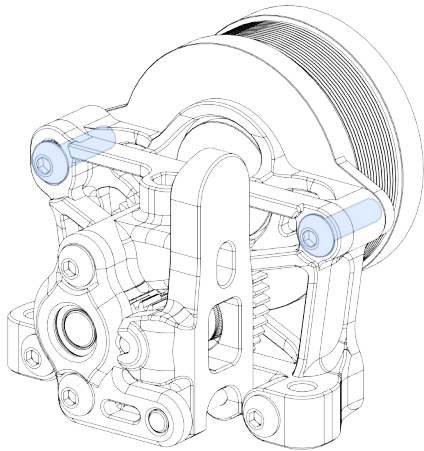


Get your Thumb out the way

Remove the Thumbscrew temporarily to allow you to screw down the Extruder.

Reinstall after you attached the Extruder.

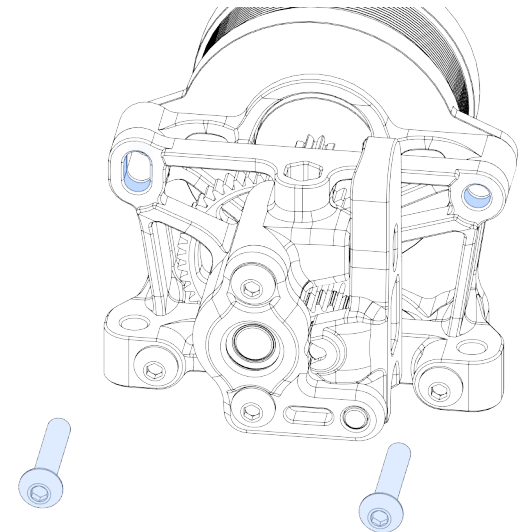
M3x12 BHCS



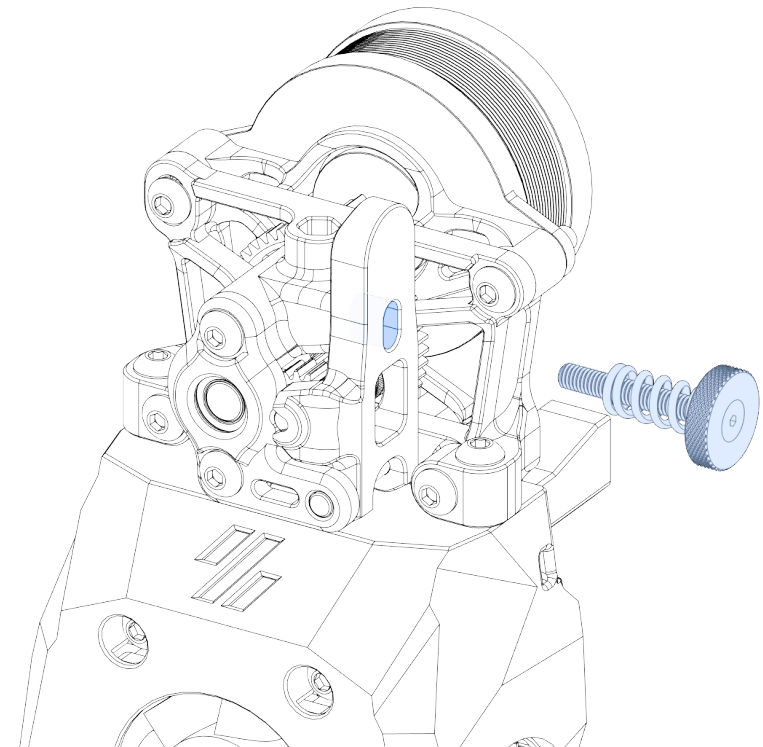
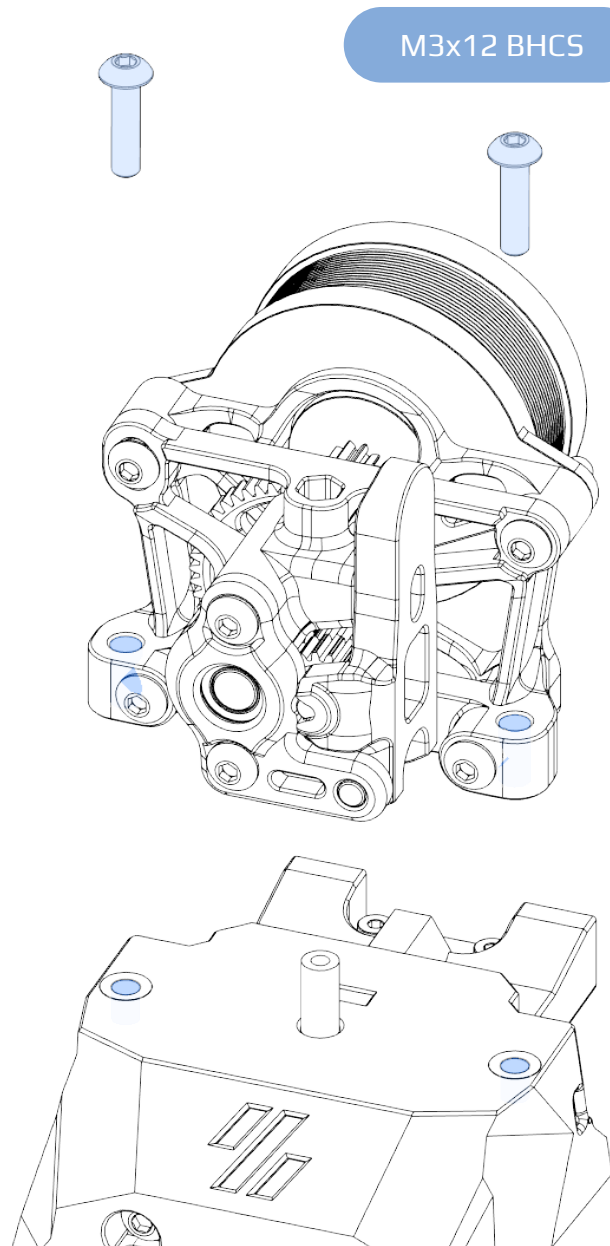
New Motor Screws

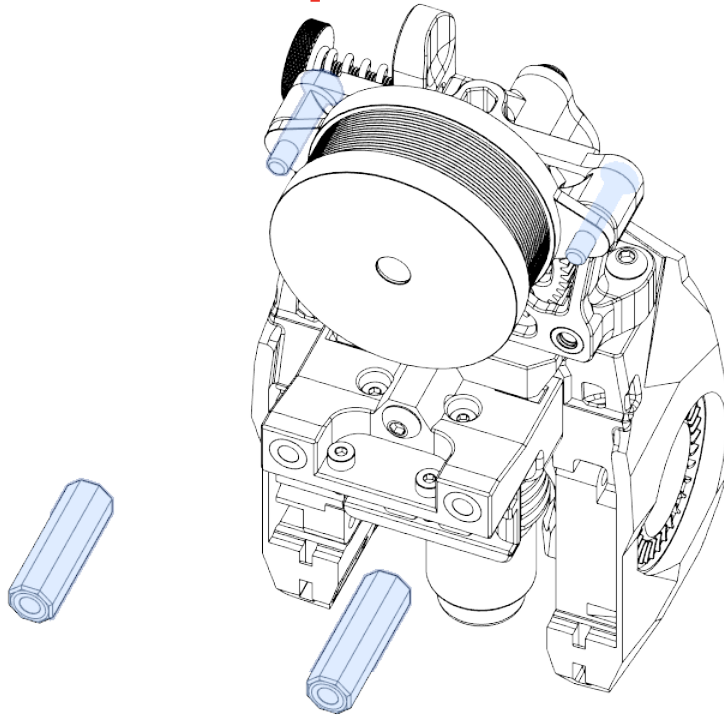
Replace the M3x12 BHCS with M3x16 BHCS, this is needed for the spacers.

Keep the M3x12 BHCS, we will use them on the next page.



M3x16 BHCS



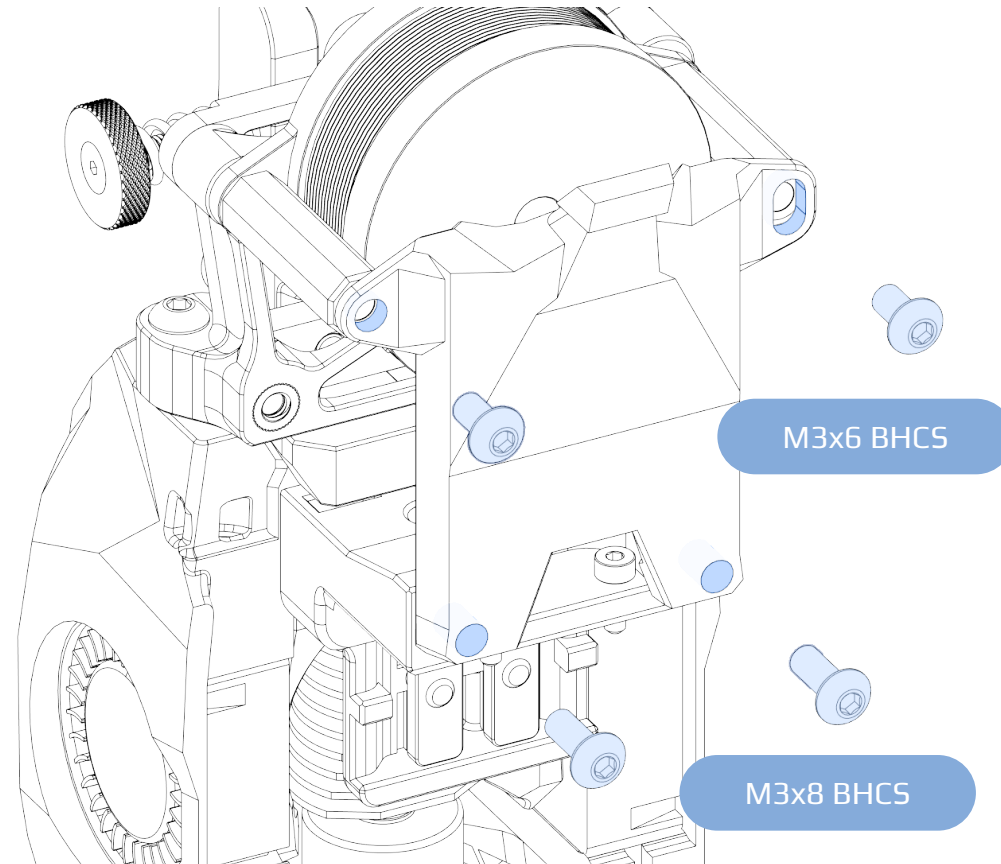


Spaceman

Attach the spacers to the motor screws.

Umbilical PCB

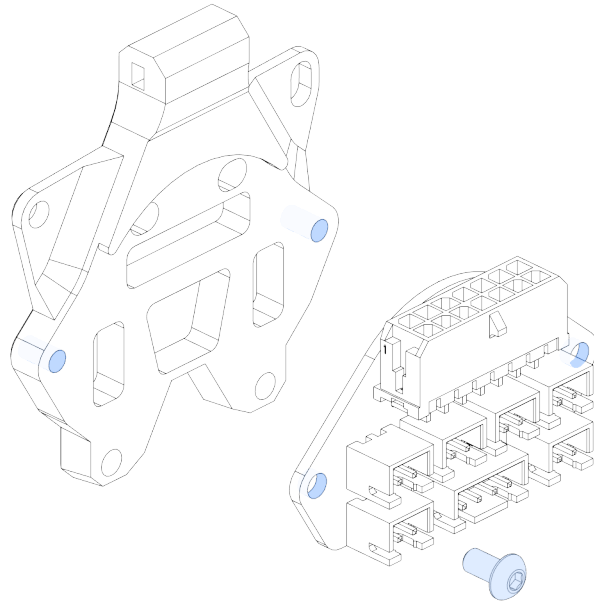
If you are using Timmit's Umbilical PCB skip to the next page without installing the strain-relief



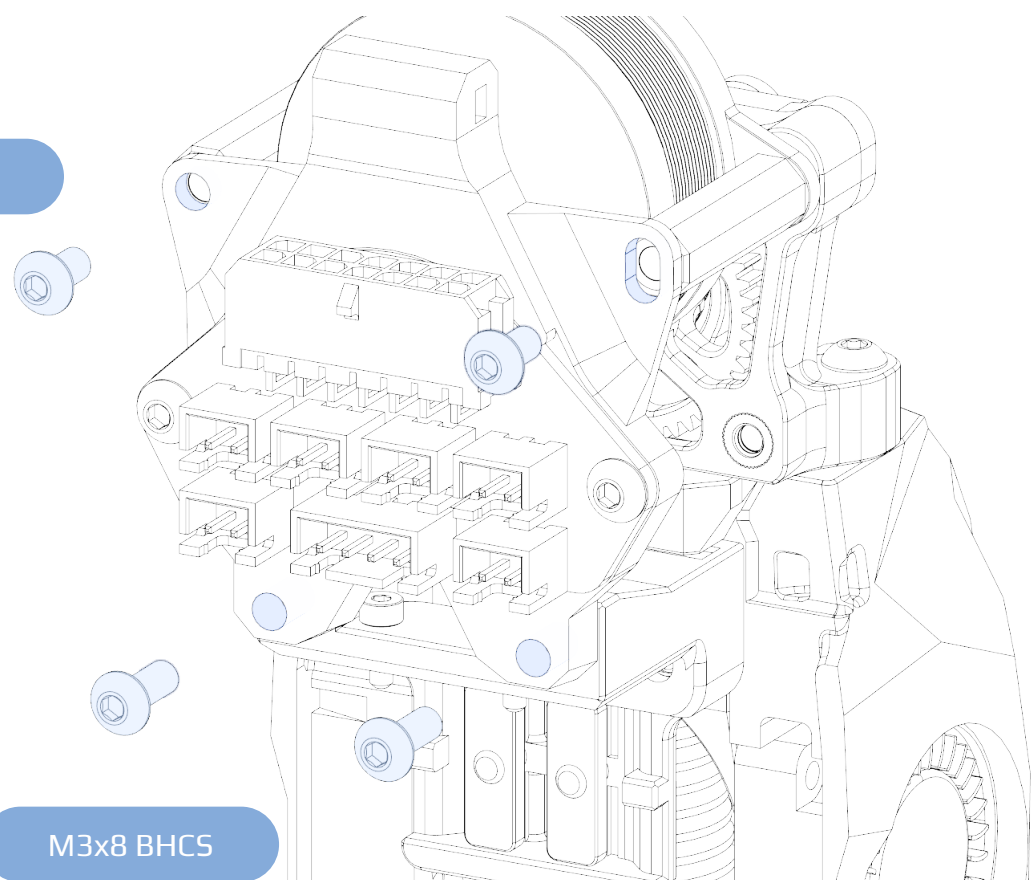
Umbilical PCB

If you are using Timmit's Umbilical PCB secure it to the Umbilical Plate with 2 M3x6 BHCS.

These screws go directly into plastic so don't over tighten these!



M3x6 BHCS



M3x8 BHCS

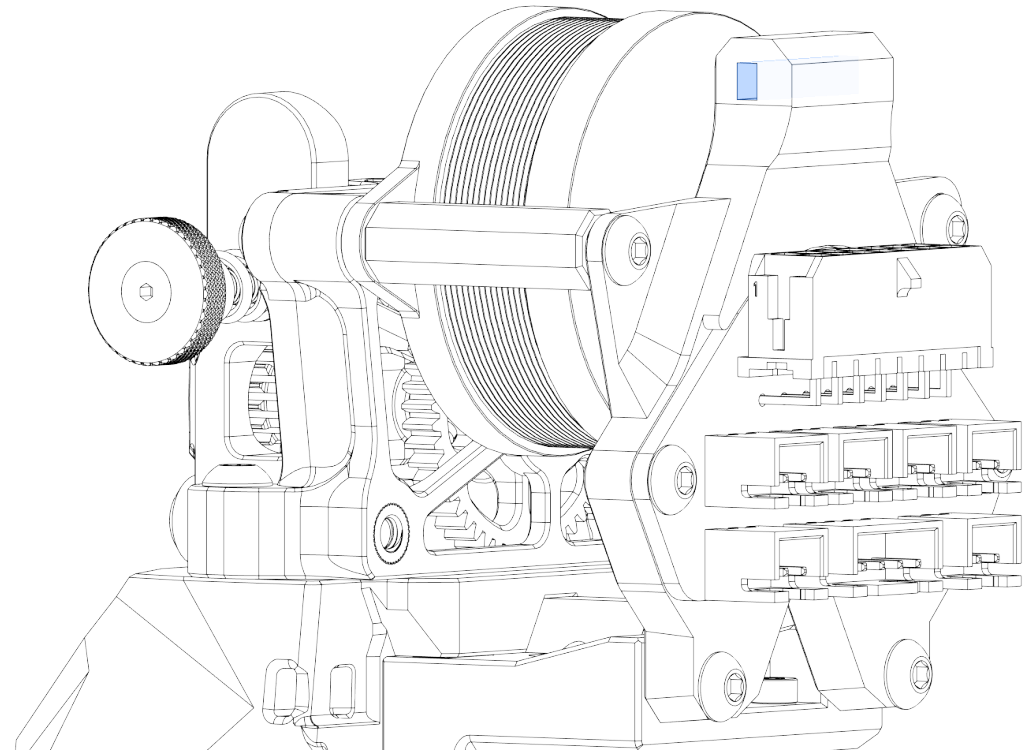
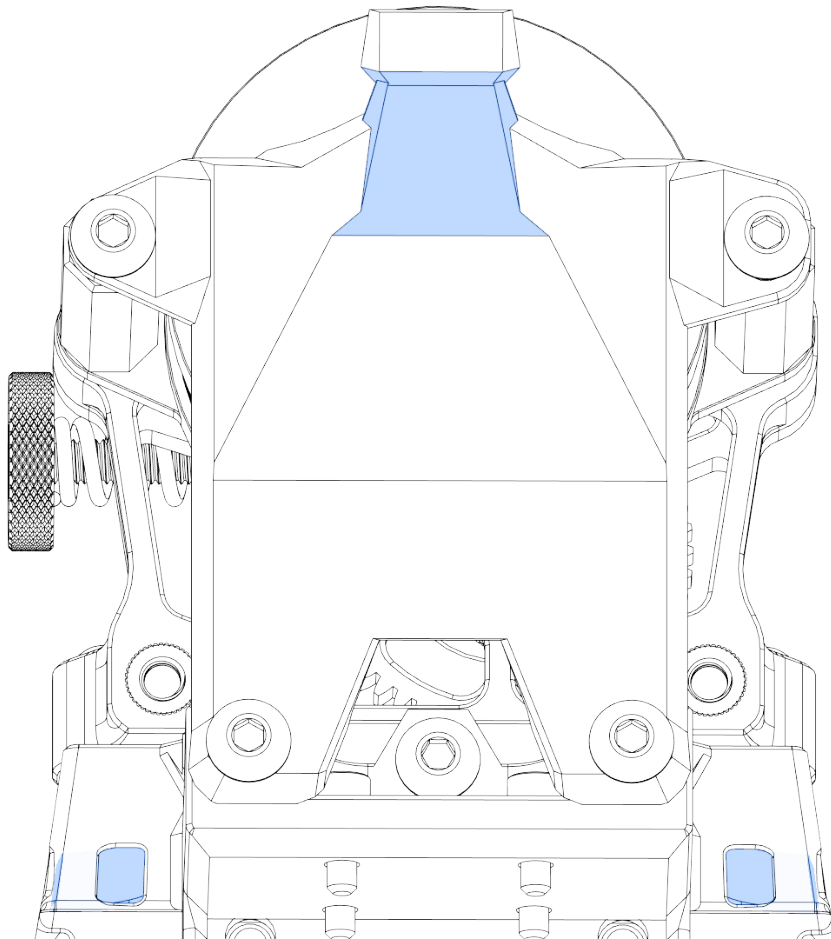
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Strain-Relief/Umbilical

Tidying things up

Wire up your Extruder, Hotend and Fans.

Secure the wires using the zip-tie loops on the Cowling and the Strain-Relief/Umbilical Plate



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