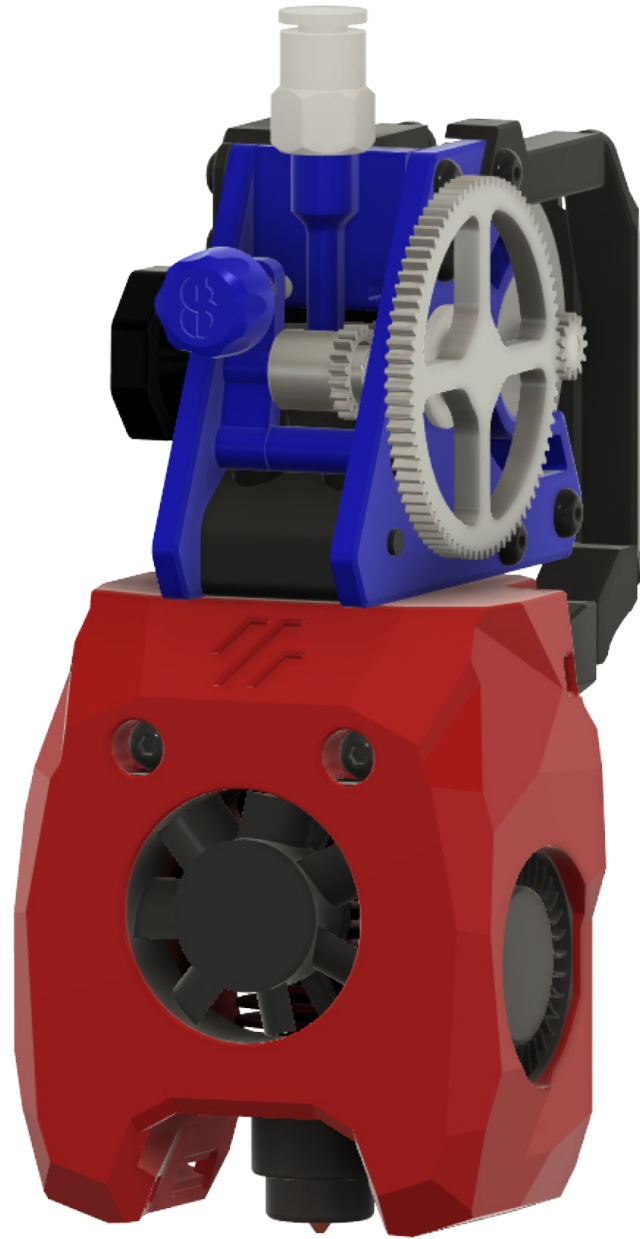


MiniSB - Apus Assembly Manual



About this manual

This manual will guide you through the assembly of the Mini-Stealthburner Apus 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.

The pictures of the cowlings are from the first release, these are currently outdated, but the assembly is otherwise the same. So don't be confused if your parts look slightly different.

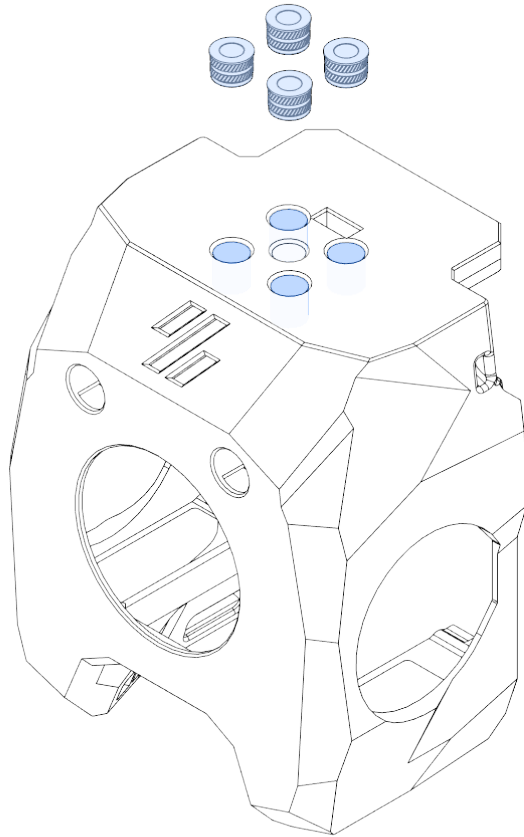
Printed Parts

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.

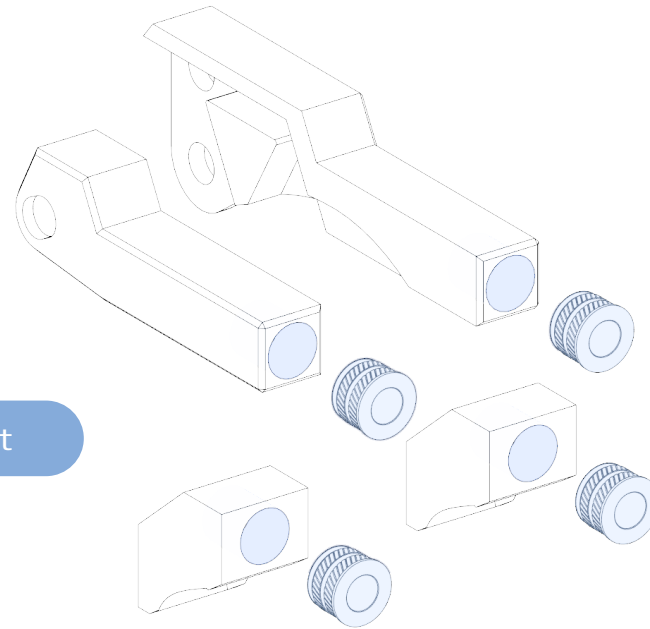
The recommended installation is with the default adapter piece that comes with the extruder, however there also is a 3D-printable one provided.

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, so you'll need one of each top spacer and two 2 bottom spacers.

| Part | Quantity | Notes |
|--|----------|--|
| M3x5x4 Heatset | 8 | |
| M3x4.2x3 Heatset | 2 | Only needed when using printed Apus-Adapter piece |
| M3x35 BHCS | 2 | |
| M3x20 BHCS | 1 | |
| M3x12 BHCS | 4 | Should be included with the Apus Extruder |
| M3x8 BHCS | 2 | |
| M3x6 BHCS | 4 | |
| 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 |
| Apus Extruder | 1 | |
| | | |
| Additional Parts for standard strain relief | | |
| M3x8 BHCS | 2 | |
| Additional Parts for Umbilical PCB | | |
| M3x8 BHCS | 2 | |
| M3x6 BHCS | 2 | |
| Additional Parts for CAN-Toolheads | | |
| M3x6 BHCS | 4 | |



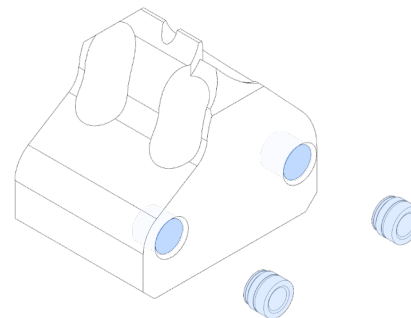
M3x5x4 Heatset



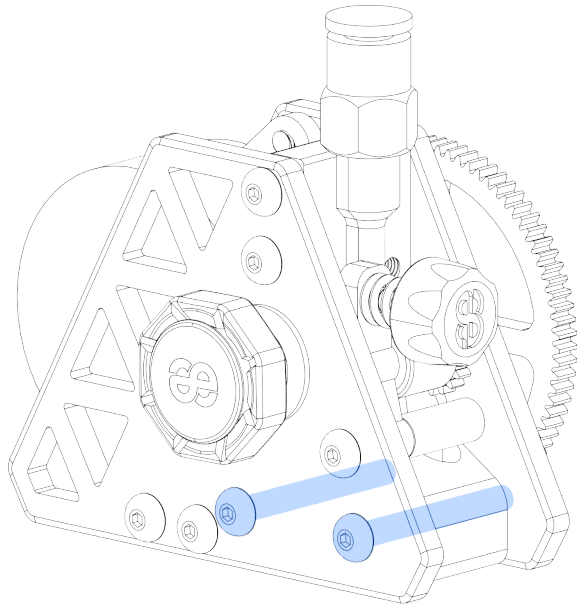
Printed Adapter Version

If you printed the replacement adapter piece you will need to add 2 M3x4.2x3 Heatsets into the adapter piece.

The rest of this manual will depict the default Version, however assembly is nearly exactly the same.



M3x4.2x3 Heatset

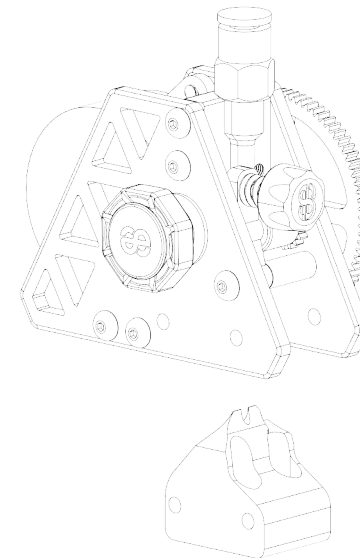
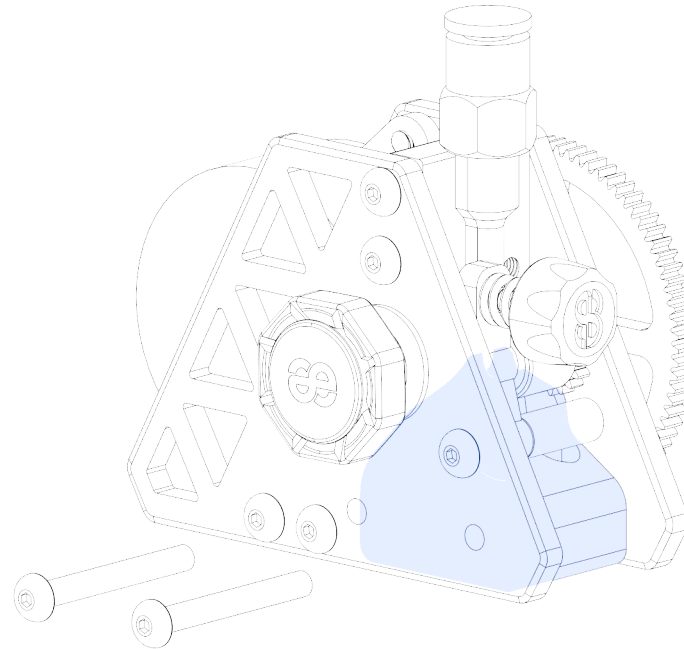


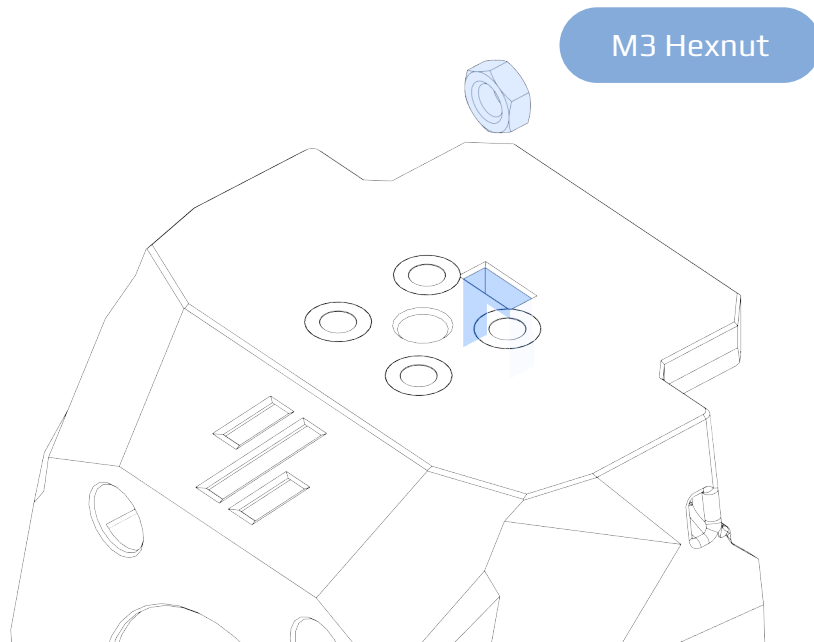
M3x25 BHCS

Disassembly

Remove the pre-installed adapter piece by removing the 2 M3x25 Screws and sliding the adapter out to the bottom.

We will reuse these screws later so keep them somewhere safe.

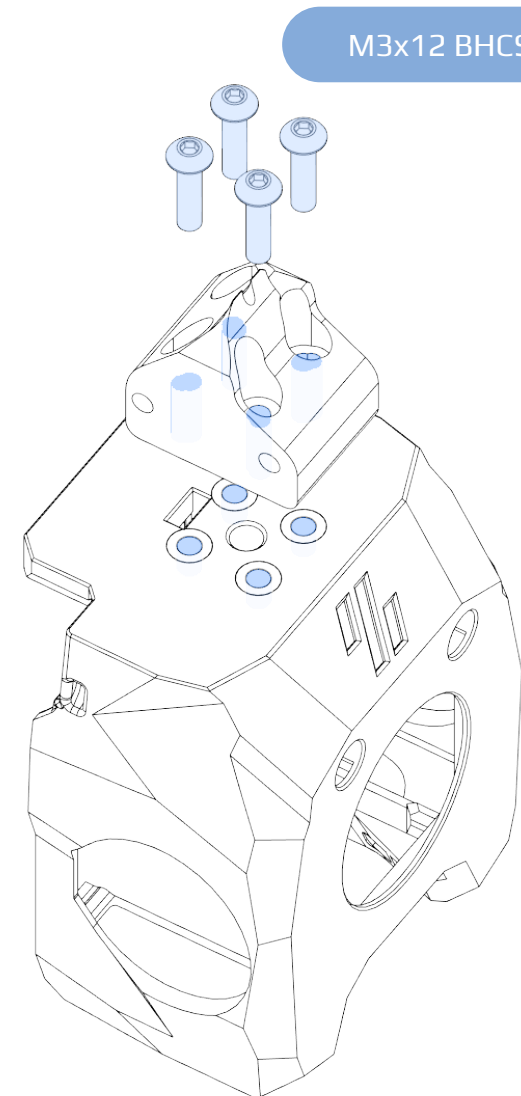


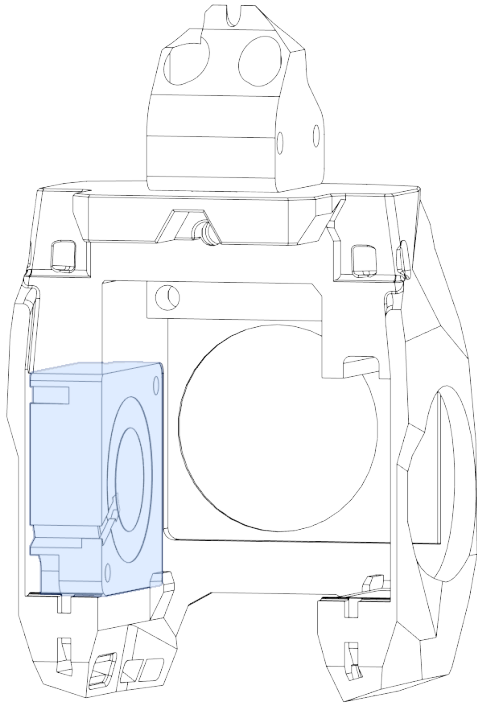


Adapter

Slide a Hexnut into the slot on top of the Cowling.

Afterwards install the adapter piece with 4 M3x12 BHCS.





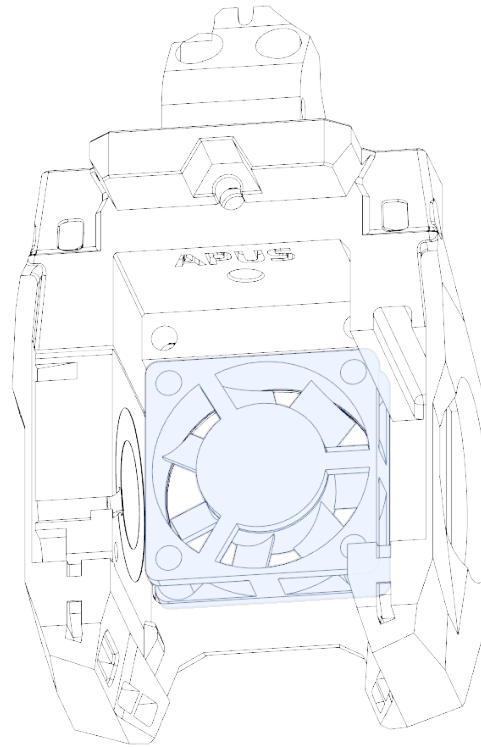
3010 Blower Fan

Fans

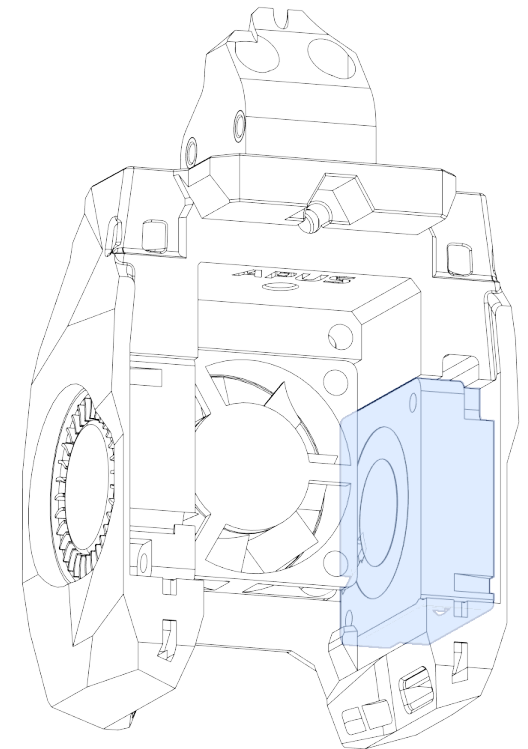
Install all the fans by sliding them in, just like with a normal Mini-Stealthburner.

Route the wires along their intended cutout.

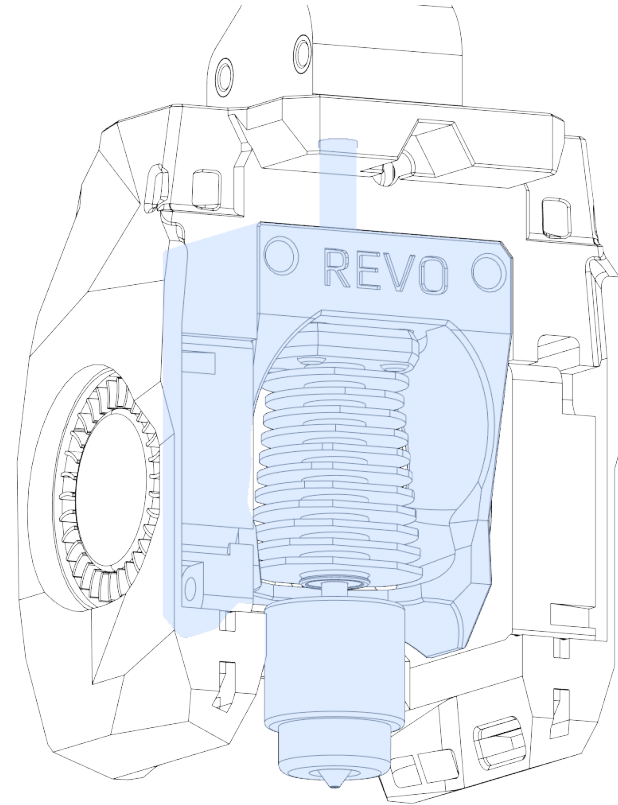
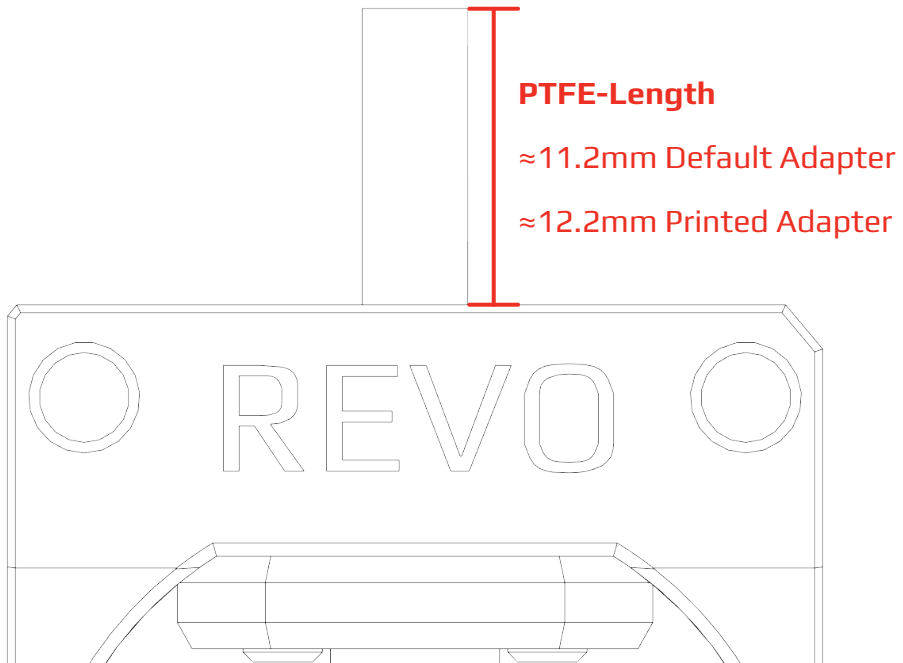
When in doubt check the Voron V0.2 Manual.



3010 Axial Fan



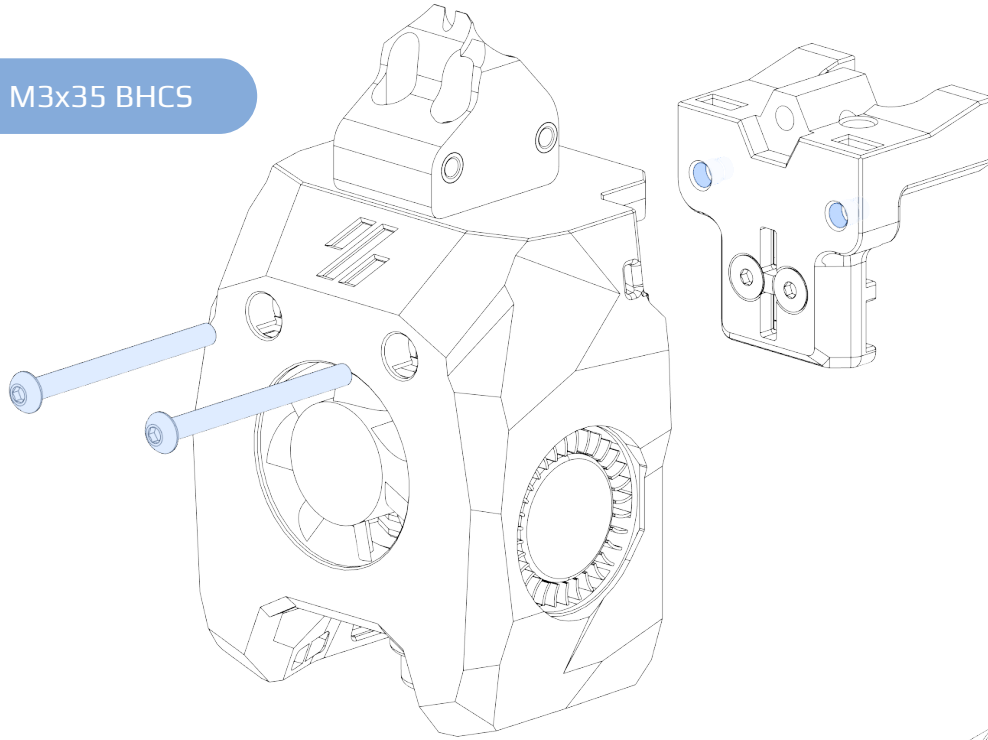
3010 Blower Fan



Hotend
Install your Hotend.

Make sure your PTFE-Tube is
the right length.

M3x35 BHCS

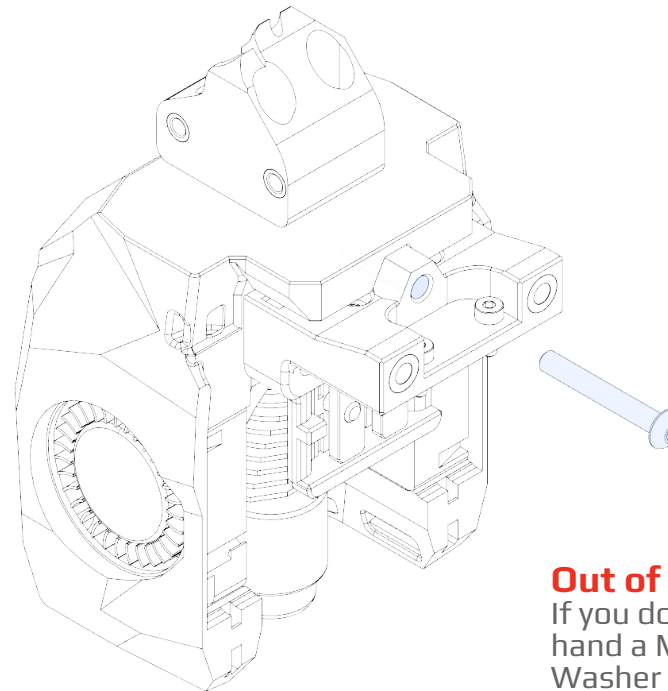


No X-Axis?

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

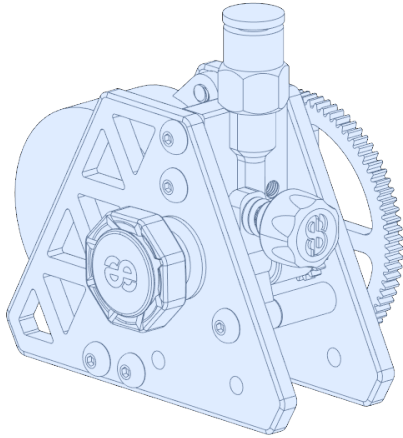
The X-Carriage should already be installed and the belts run and secured.

M3x20 BHCS



Out of M3x20 Screws?

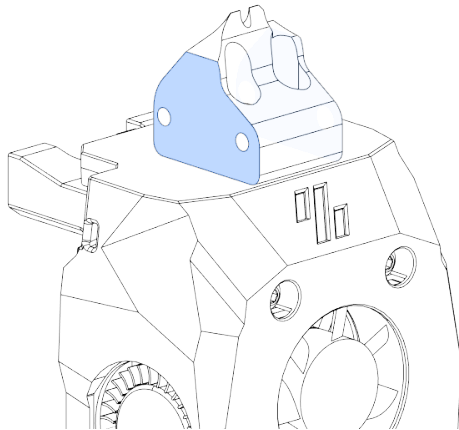
If you don't have any M3x20 on hand a M3x25 BHCS plus a M3 Washer will also work.



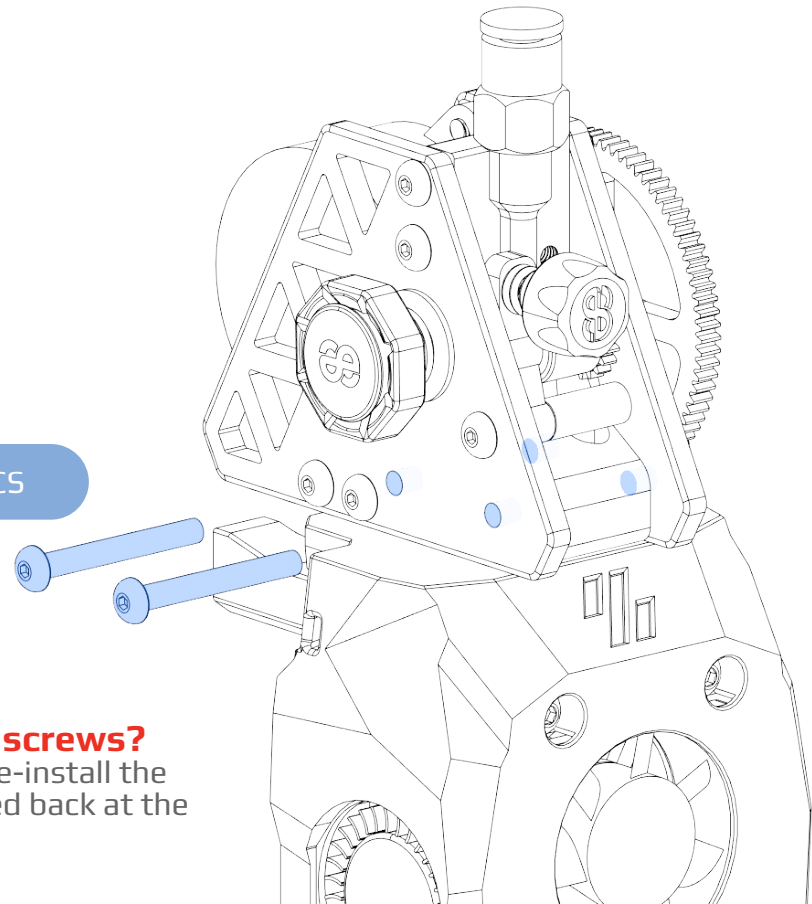
Slip and slide?

Slide on the Apus Extruder onto the adapter.

Make sure the screw holes align.

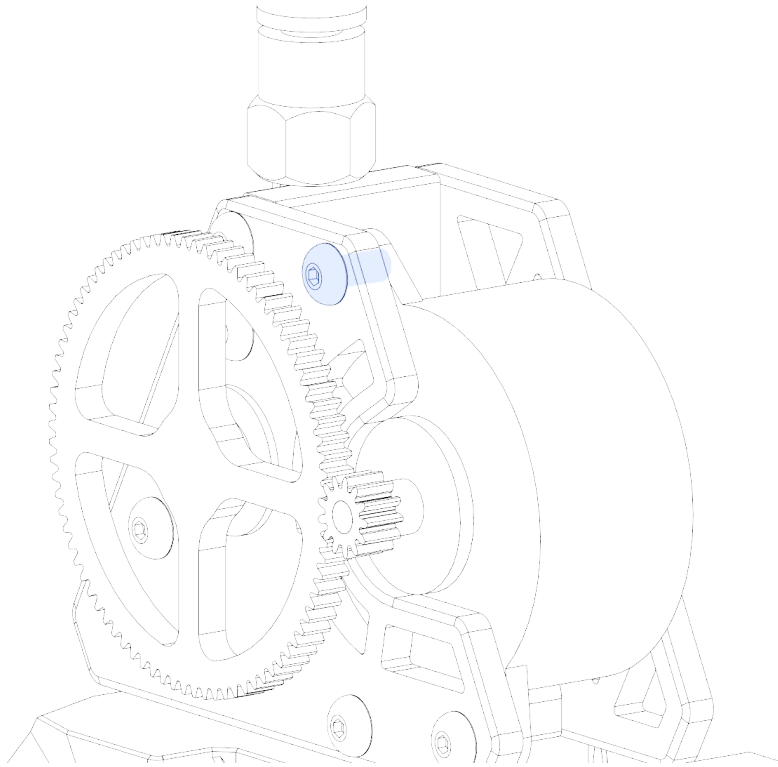


M3x25 BHCS



'Member them screws?

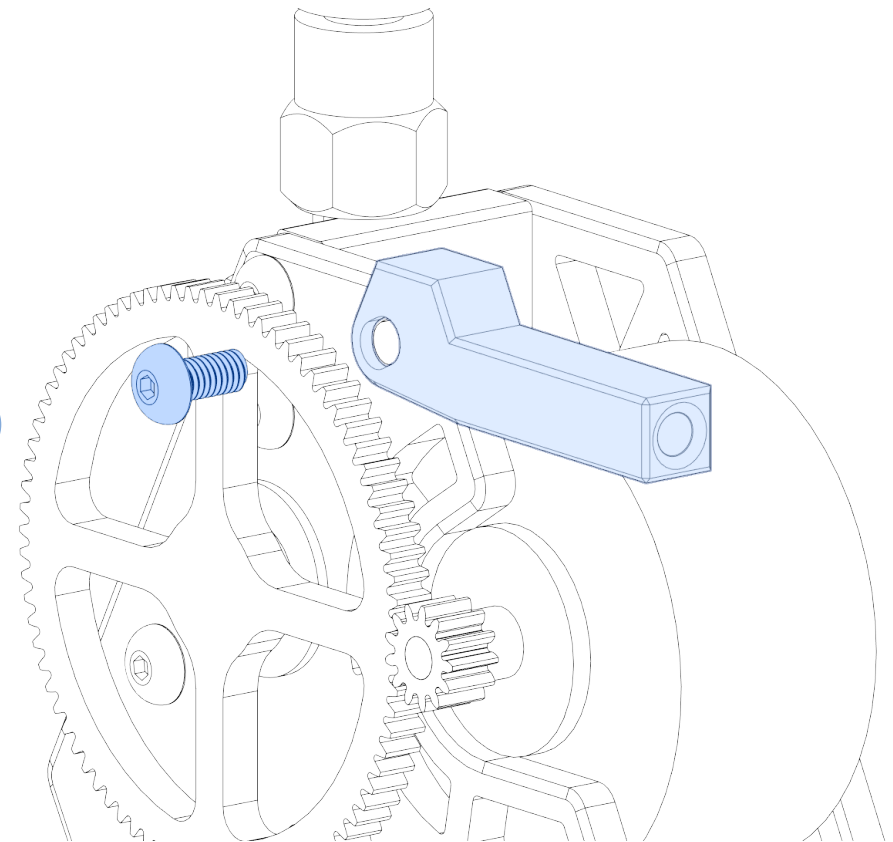
This is where we re-install the screws we removed back at the beginning.

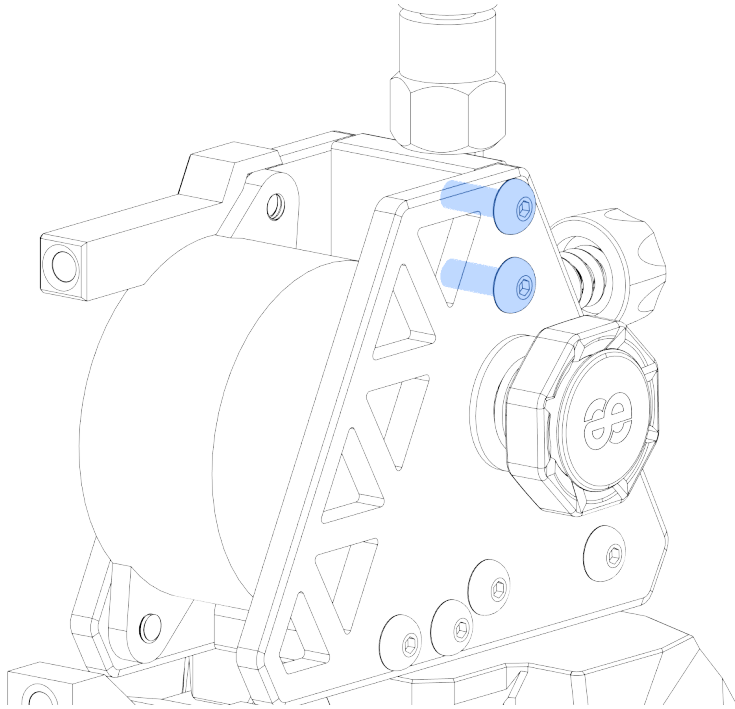


Remove and re-use

Remove the top M3x6 motor screw, put on the top left spacer and reattach the screw.

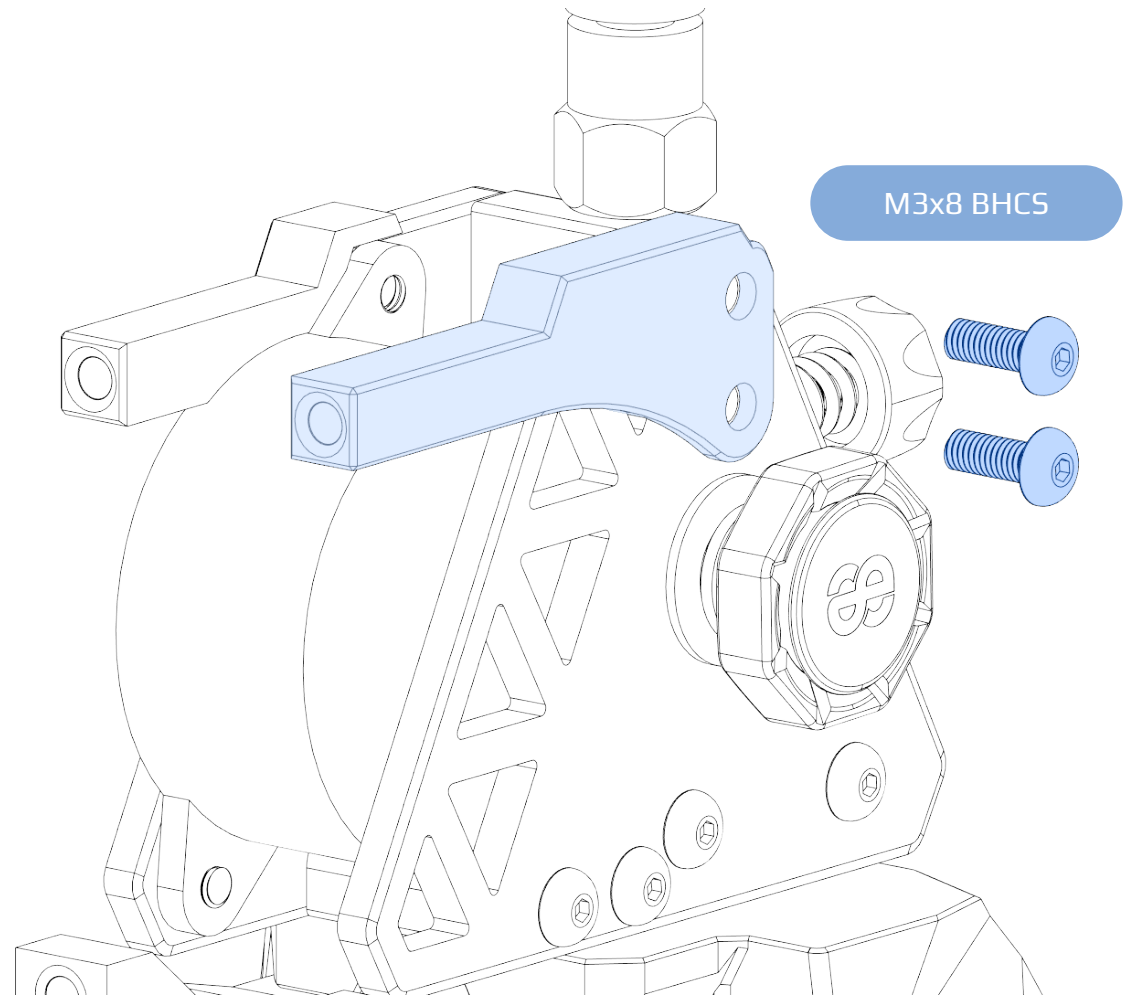
M3x6 BHCS

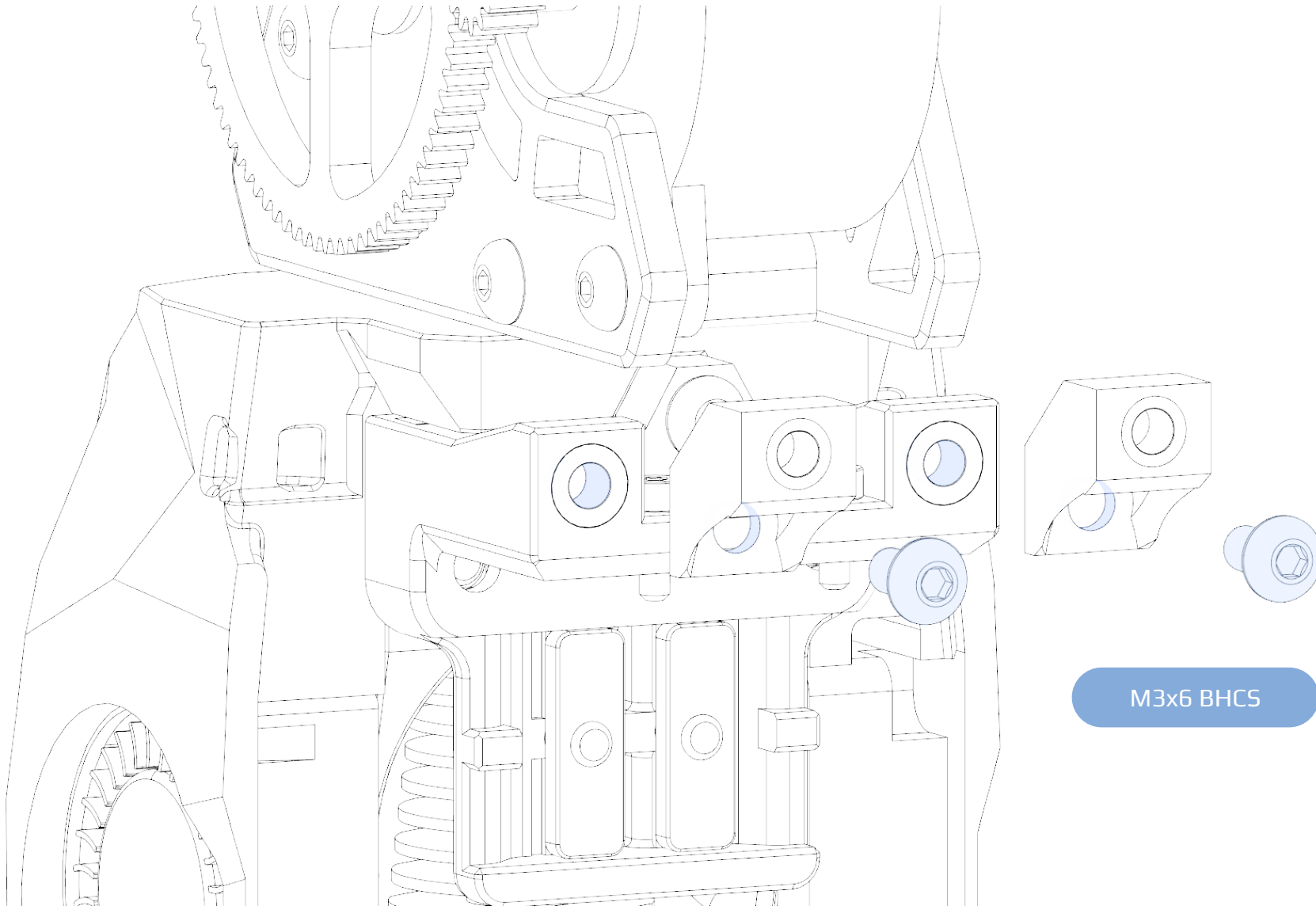


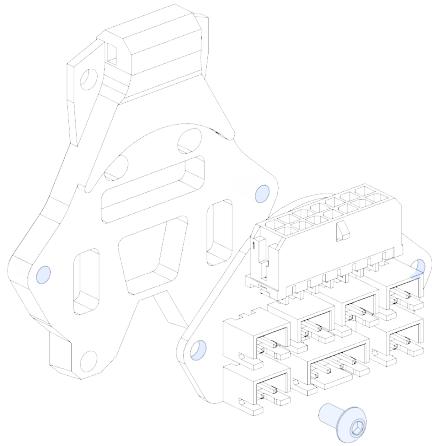


Remove and re-use, repeat

Remove the 2 M3x8 screws above the manual feeder knob, push the top right spacer on and reattach the screws.







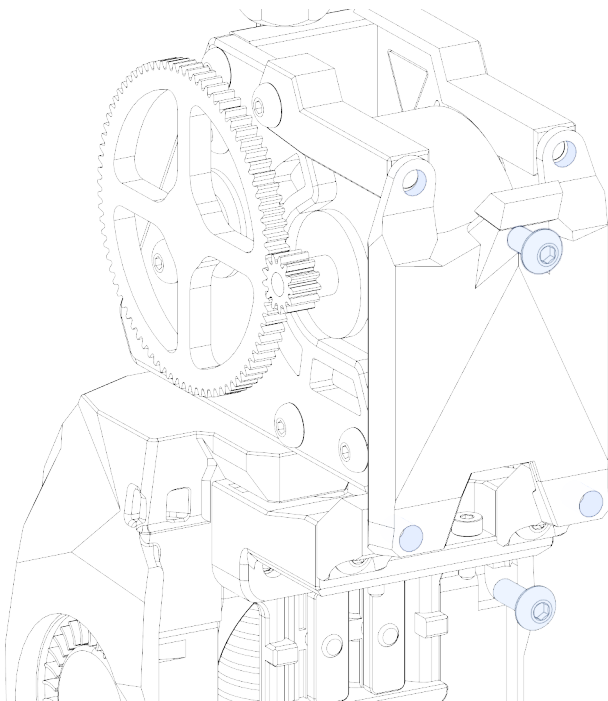
Umbilical PCB

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!



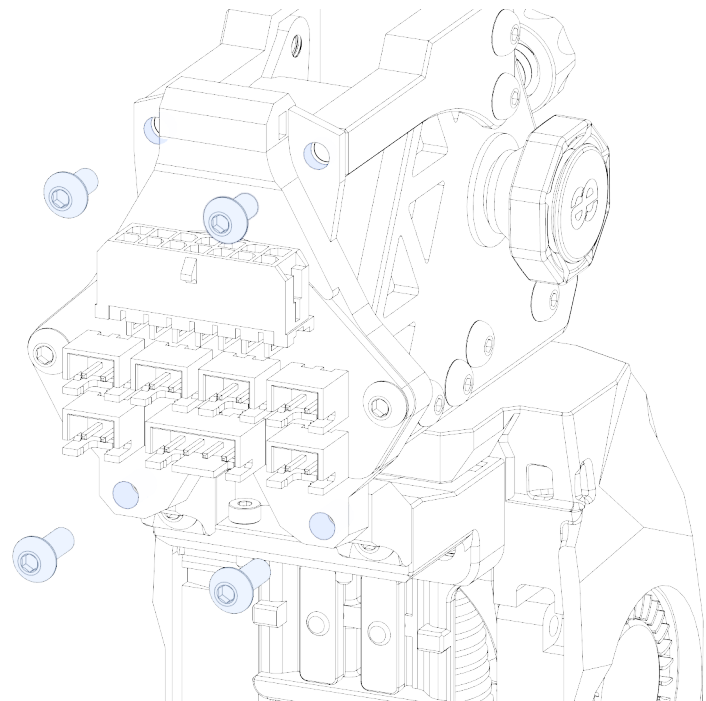
M3x6 BHCS



M3x6 BHCS



M3x8 BHCS



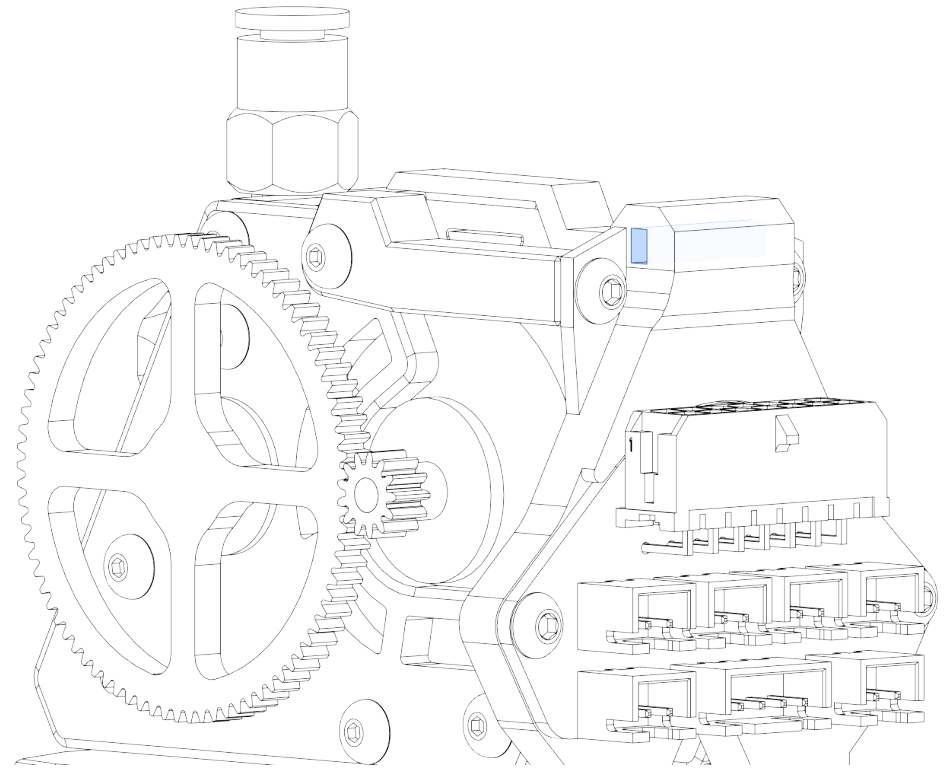
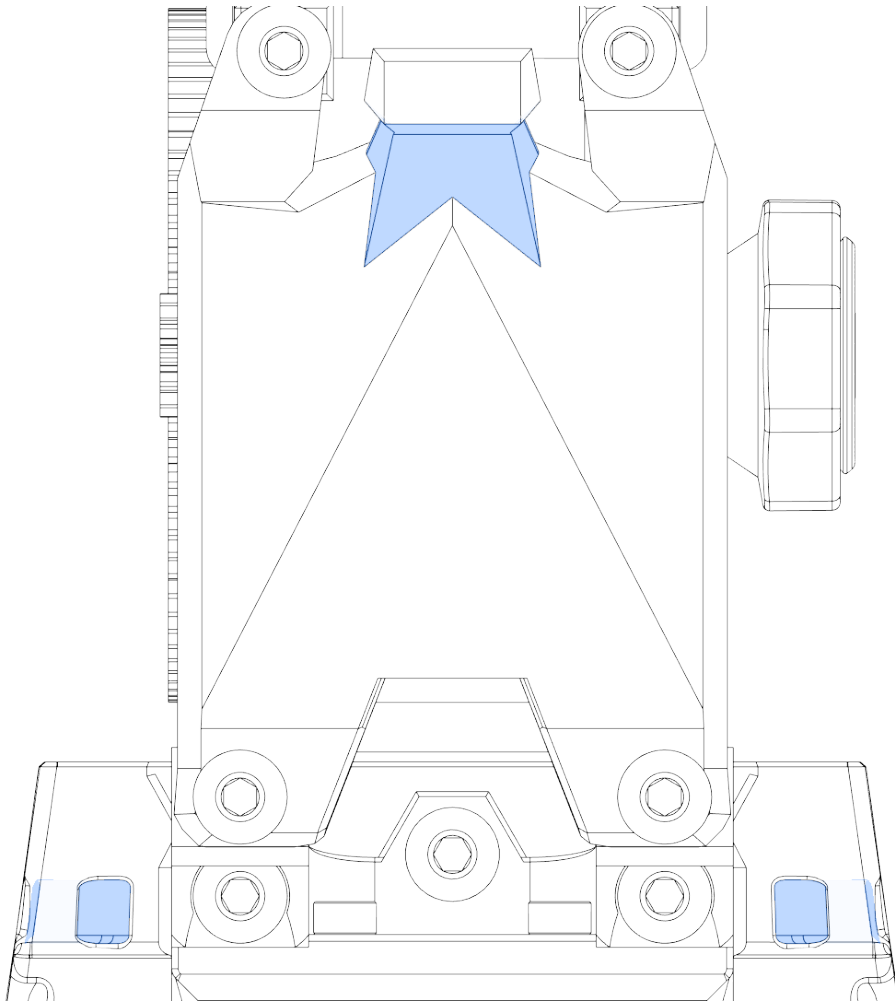
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Strain-Relief / Umbilical

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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