MiniSB - LGX-Lite Assembly Manual

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About this manual
This manual will guide you through the assembly of the Mini-Stealthburner LGX-Lite 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.
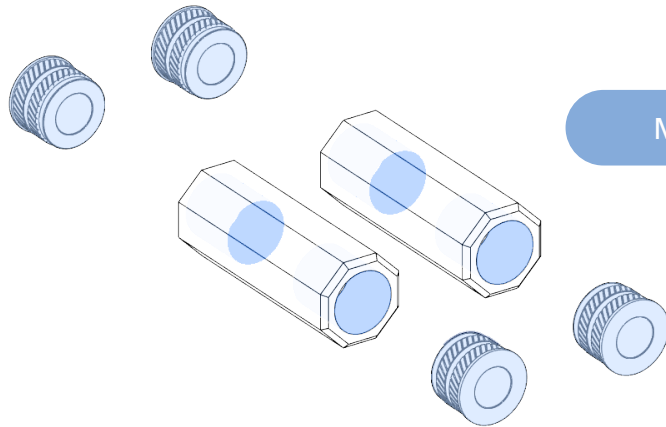
Printed Parts
The STL-Files use the same naming system as the official Voron STLs, e.g. [a] denotes a part to be printed in accent-color, _xN denotes how many copies should be printed where "N" is the quantity.

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: 18.00mm

- Moons Motor: 17.50mm

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	4	
M3x35 BHCS	2	
M3x30 BHCS	2	Optional to replace Motor Screws
M3x20 BHCS	1	
M3x8 BHCS	6	
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
Bondtech LGX-Lite Extruder	1	
Additional Parts for Umbilical PCB		
M3x6 BHCS	2	

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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.

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.

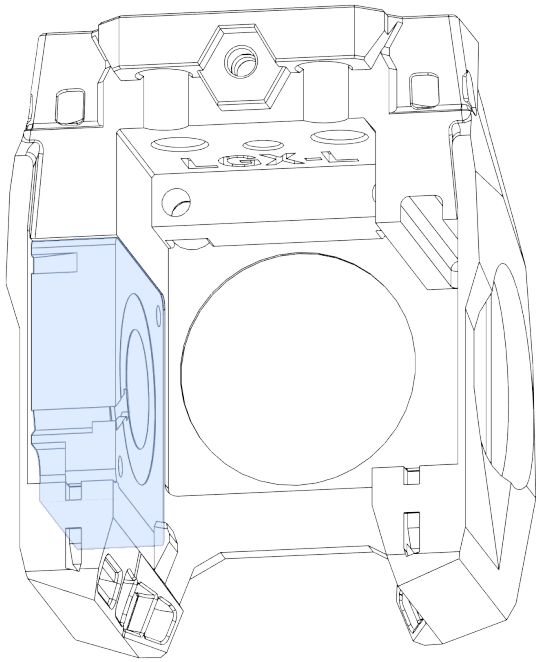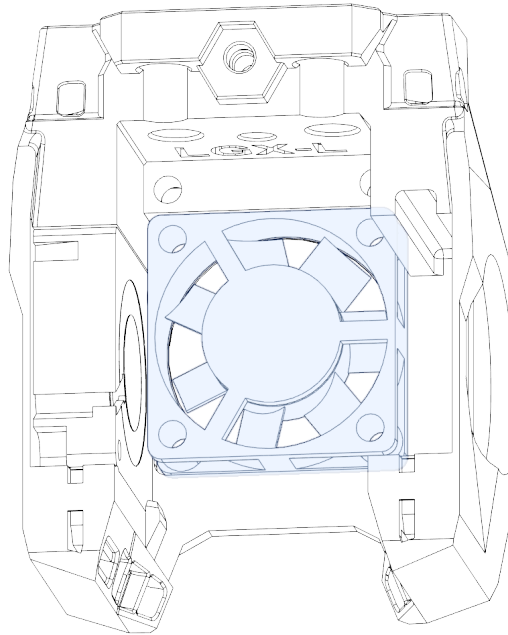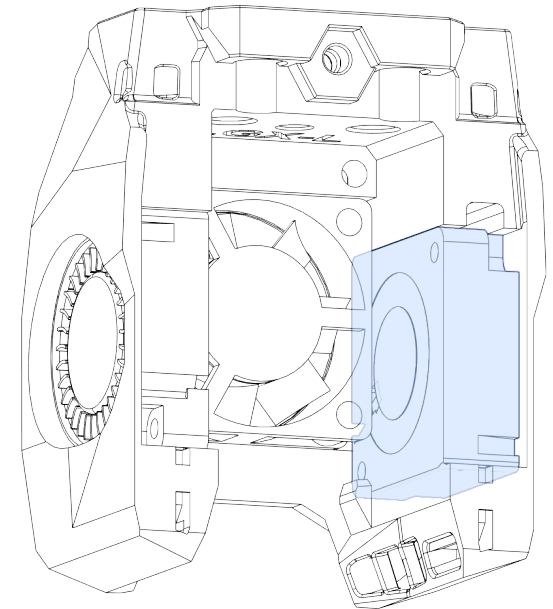The assembly process is exactly the same with either variant.

M3 Hexnut

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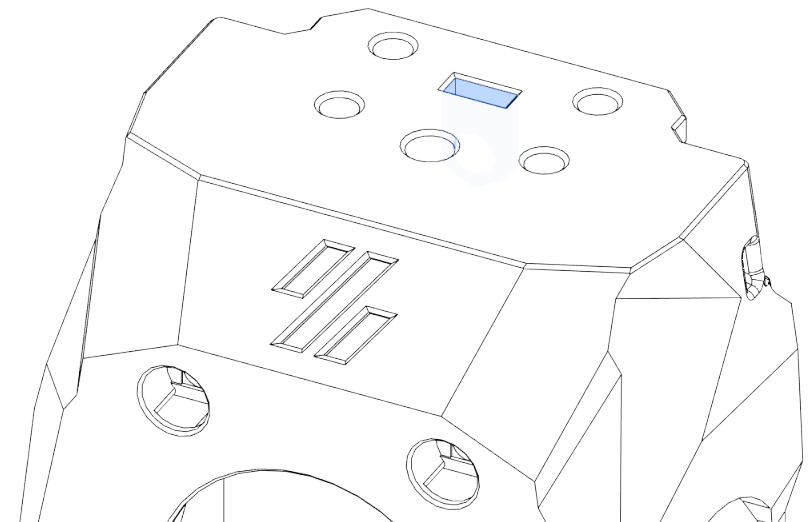
3010 Blower Fan

3010 Axial Fan

Fans
Install all the fans by sliding them in, just like with a normal Mini-Stealthburner.
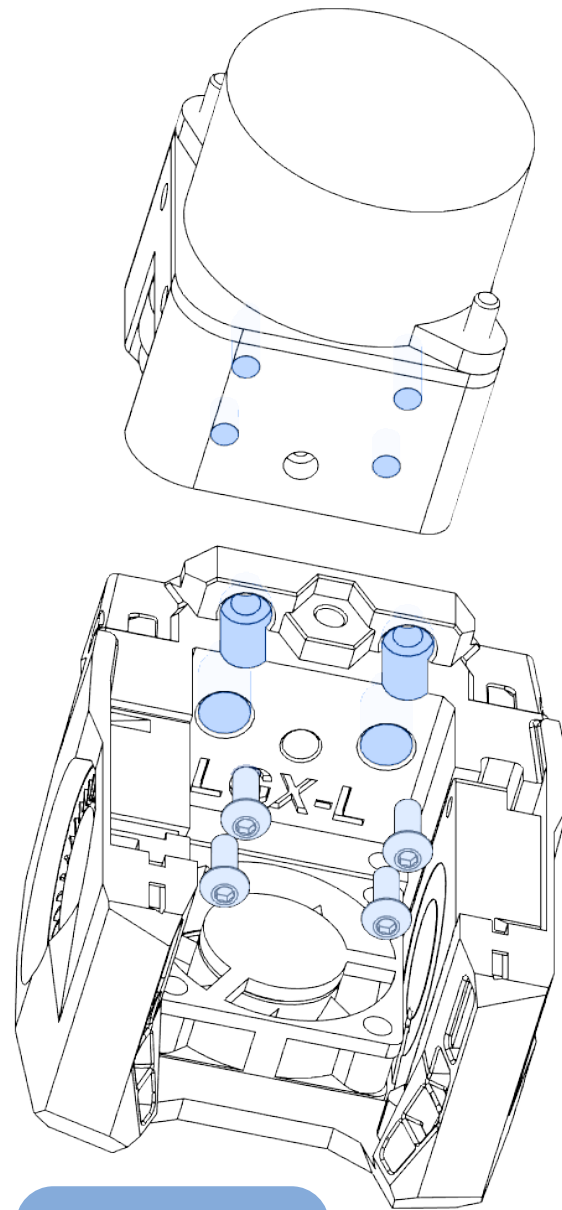
Route the wires along their intended cutout.
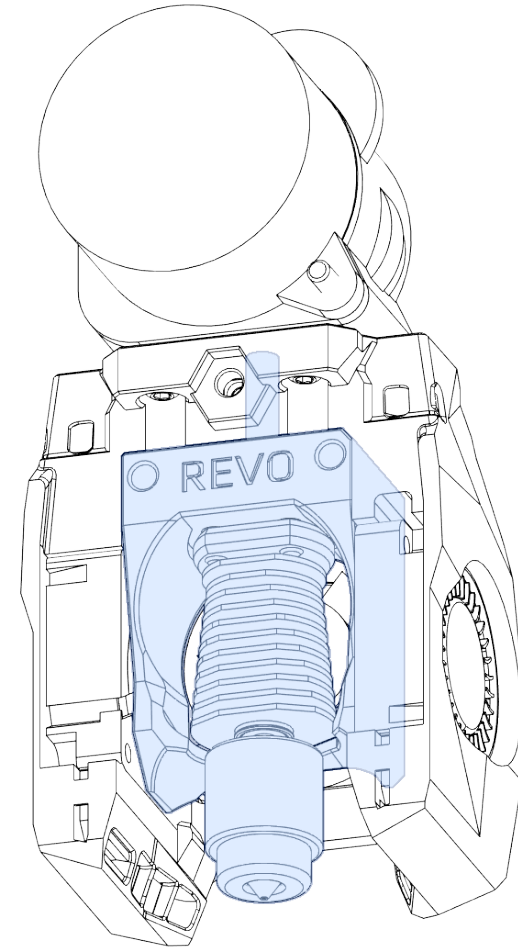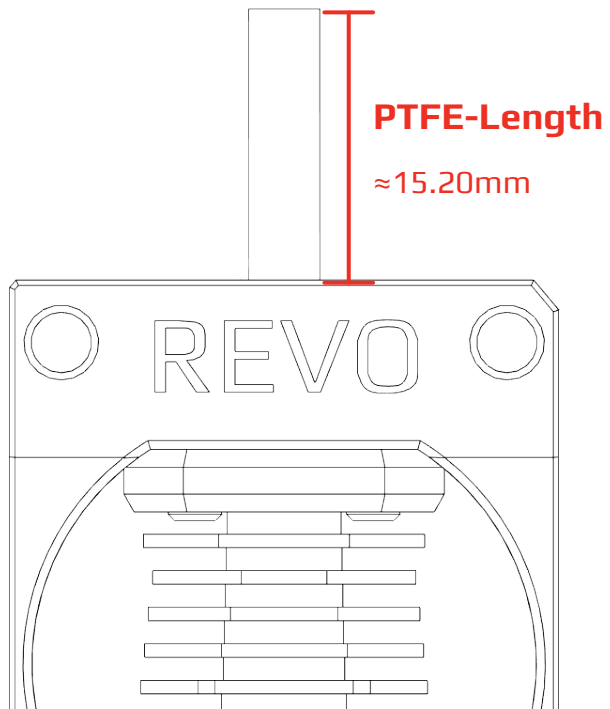
When in doubt check the Voron V0.2 Manual.

3010 Blower Fan

M3x8 BHCS

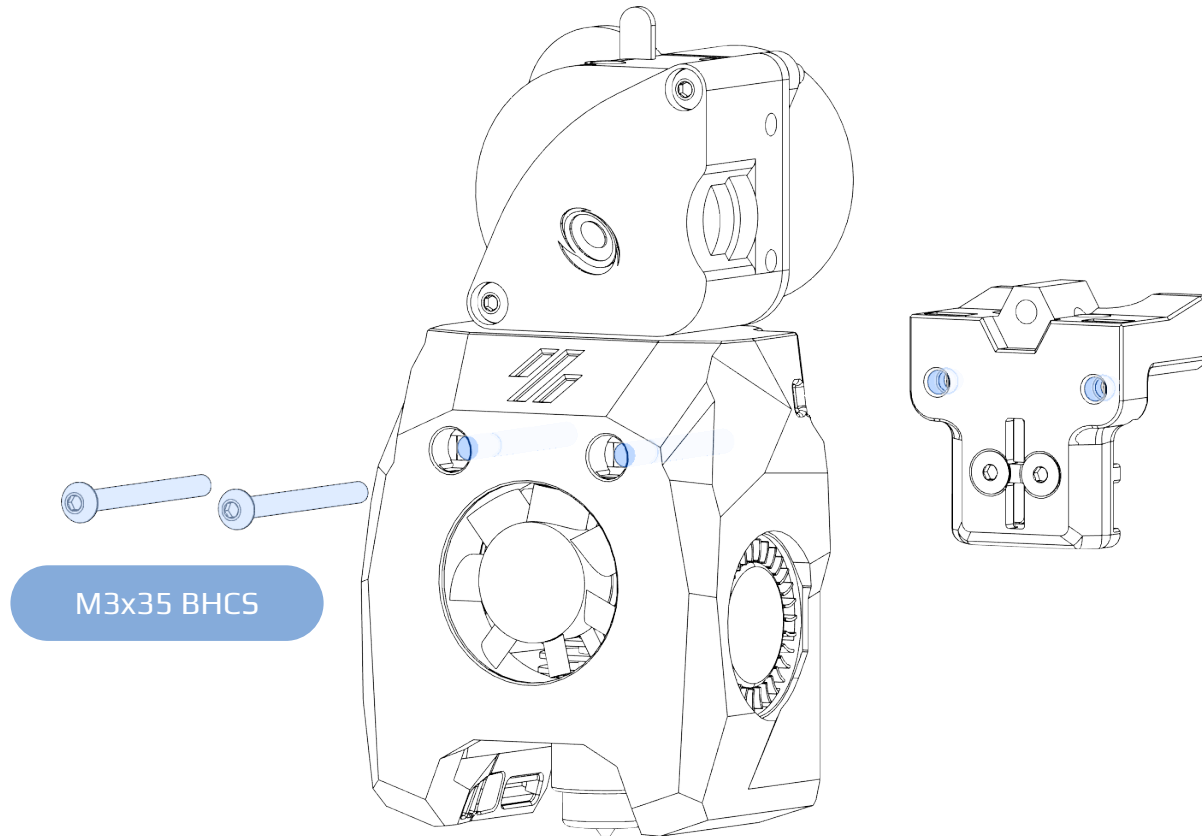# MiniSB - LGX-Lite Assembly Manual

PTFE-Length

≈15.20mm

Hotend
Install your Hotend.

Make sure your PTFE-Tube is
the right length.

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No X-Axis?
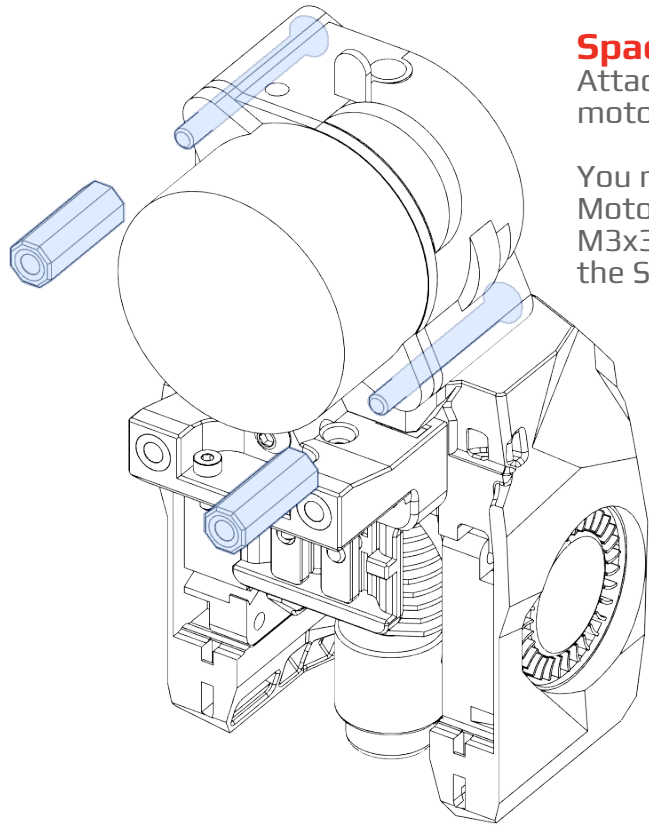For better visibility and CAD-Performance the x-Axis is not depicted in this manual.

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

M3x35 BHCS
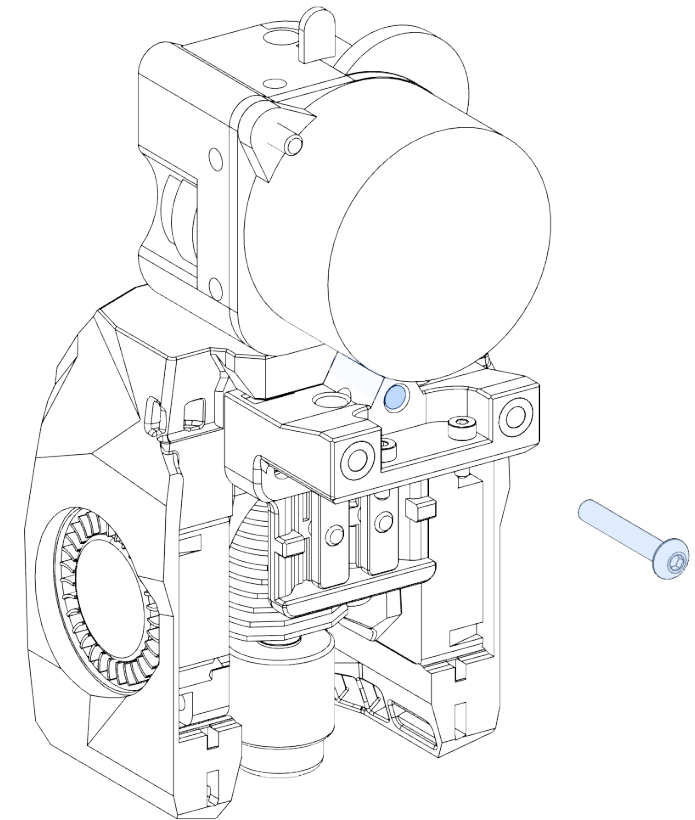
Out of M3x20 Screws?
If you don't have any M3x20 on hand a M3x25 BHCS plus a M3 Washer will also work.

M3x20 BHCS

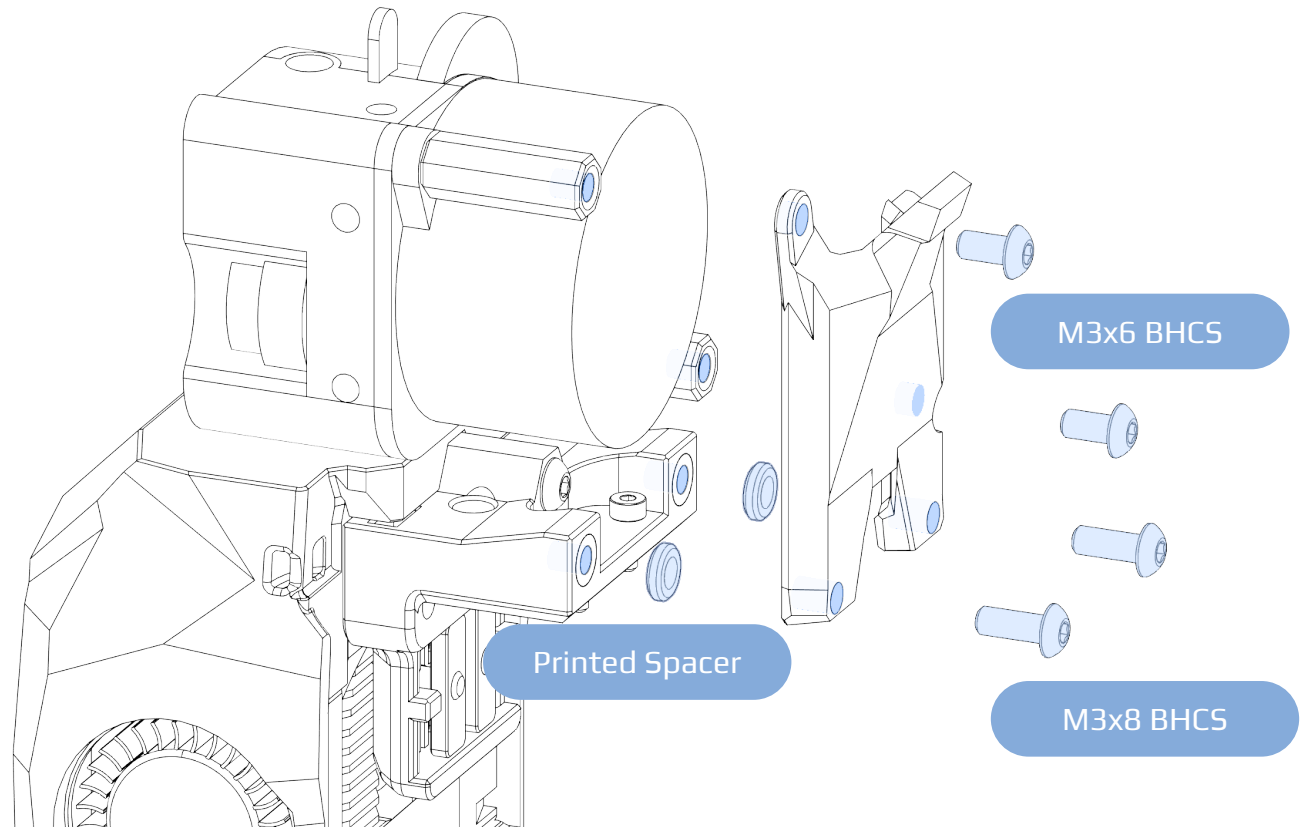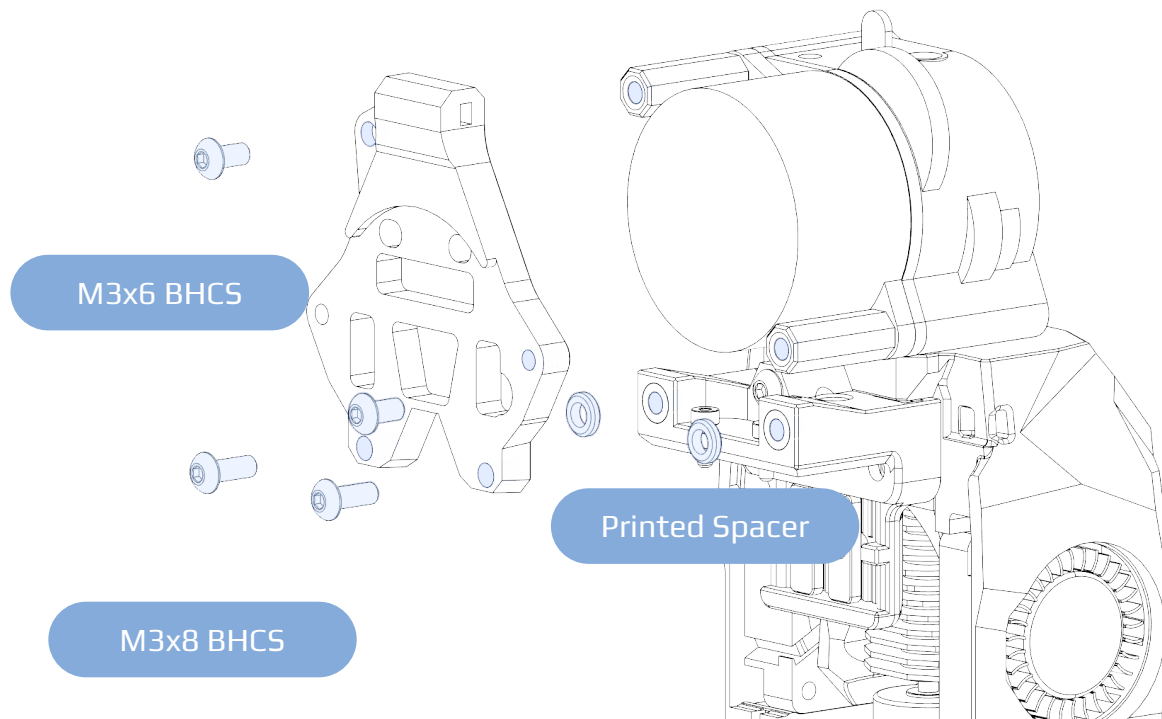# MiniSB - LGX-Lite Assembly Manual

Spaceman
Attach the spacers to the motor screws.

You might want to replace the Motor-Screws for longer M3x30 BHCS, if you can't get the Spacers tight

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

M3x6 BHCS

Printed Spacer

M3x8 BHCS

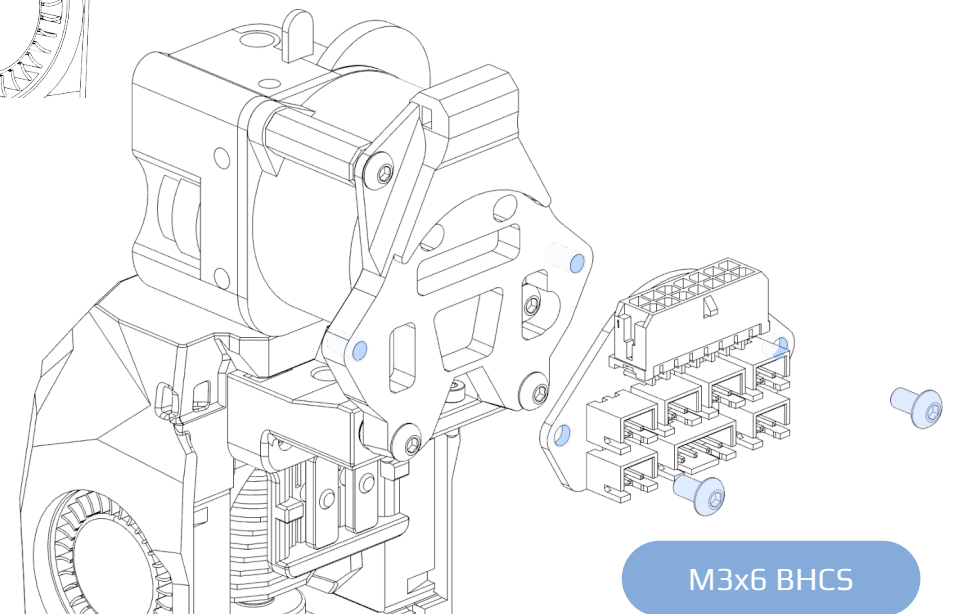M3x6 BHCS

M3x8 BHCS

Printed Spacer

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

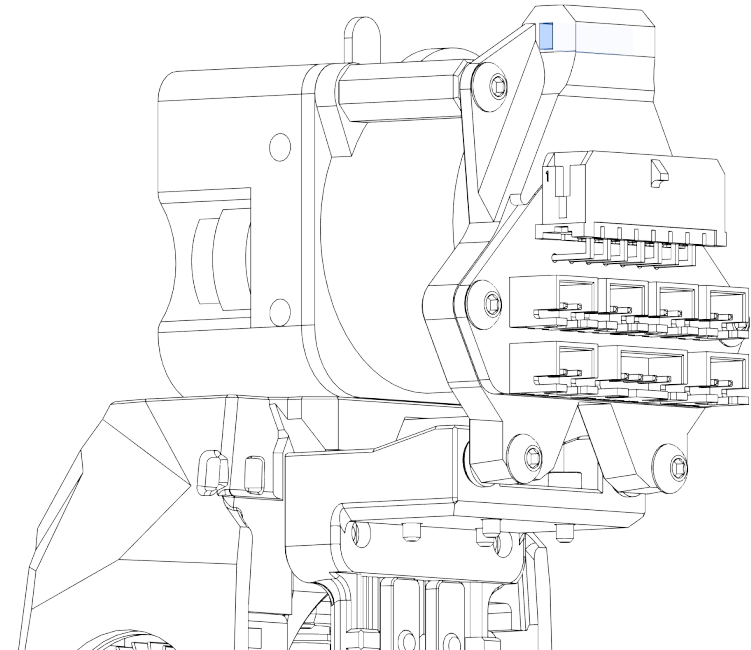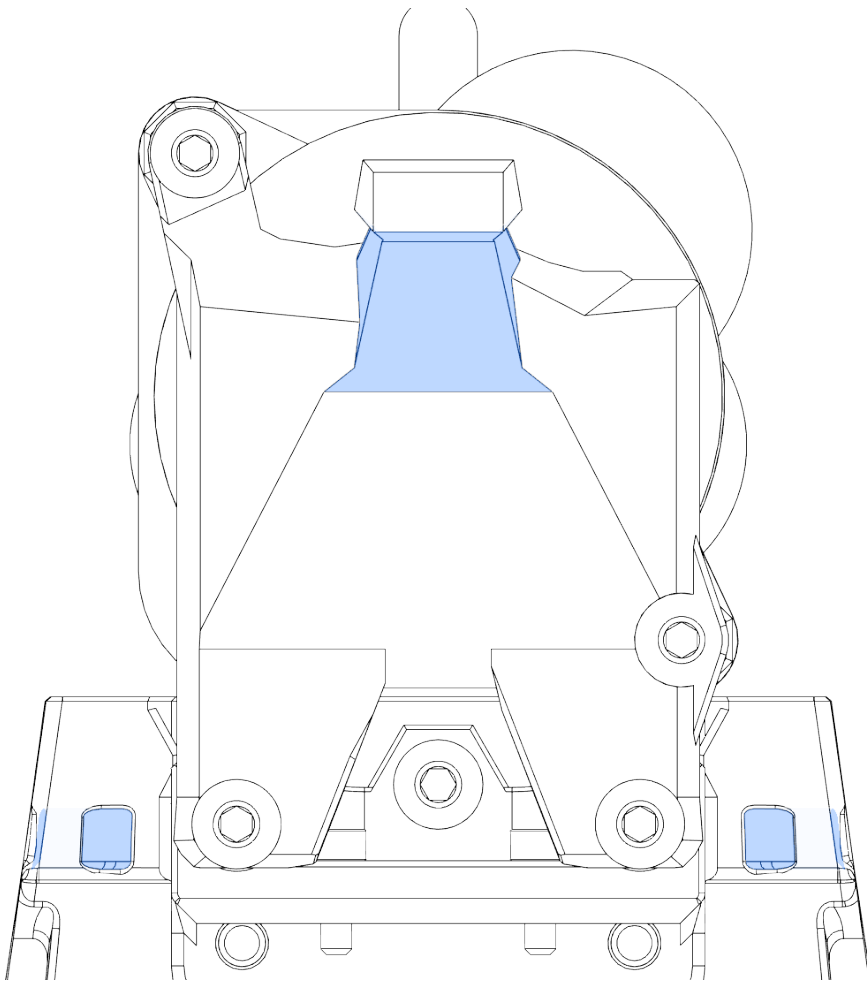These screws go directly into plastic so don't over tighten these!

M3x6 BHCS

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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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