

BETA



STEALTHBURNER

WE BUILD SPACE SHUTTLES WITH GARDENING TOOLS

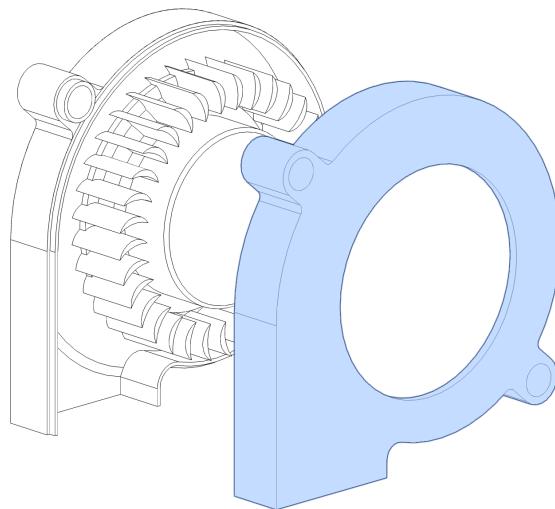
V1.02-BETA

This document is intended to help you assemble BETA version of StealthBurner toolhead system.

Be aware these steps may differ from the final release version.

Good luck! 

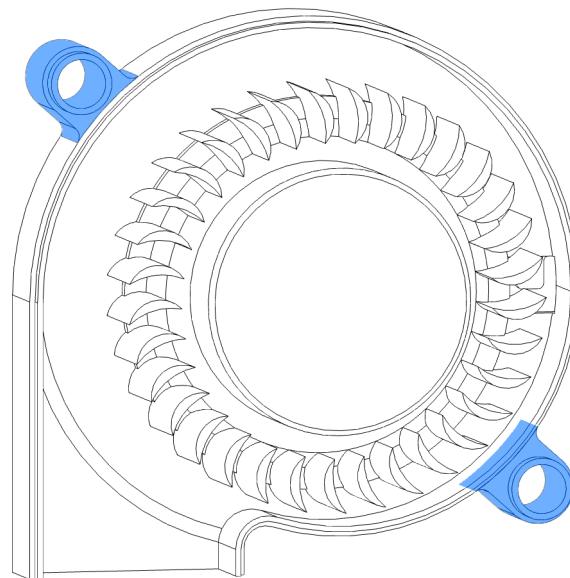
4	COOLING FAN PREP
5	X CARRIAGE FRAME
8	CLOCKWORK2
17	FAN MODULE
22	HOT END HOUSING
24	FINAL ASSEMBLY
28	CW2 EXPLODED DIAGRAM

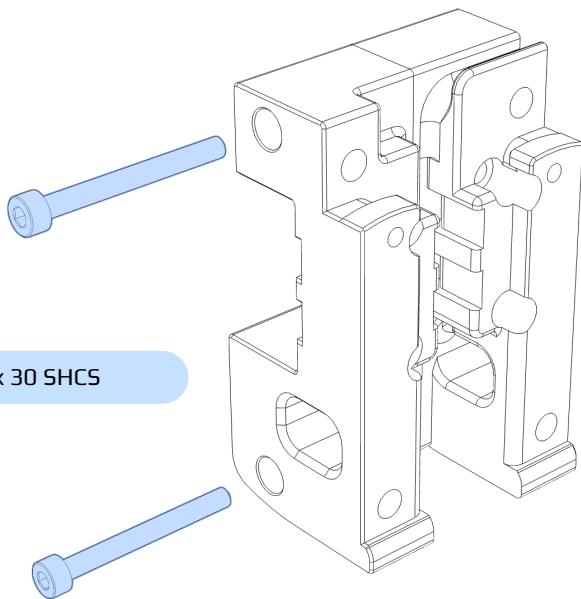
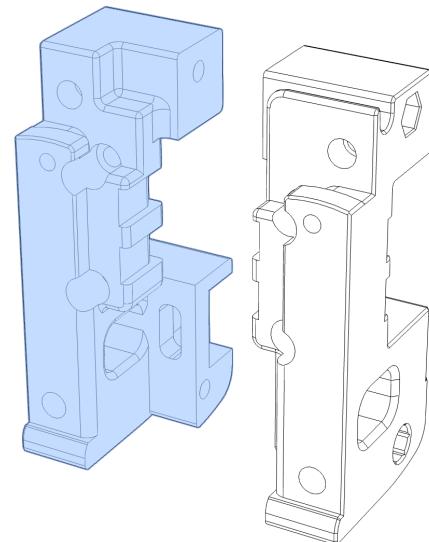
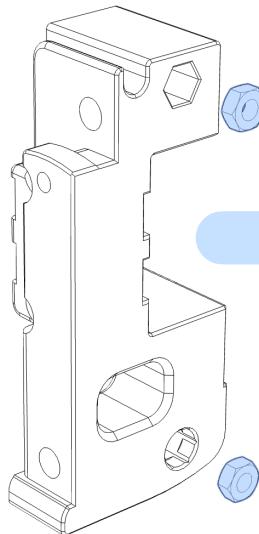
**NOTE**

Remove the front of the 5015 fan. Clip off and file down the stock mounting ears.

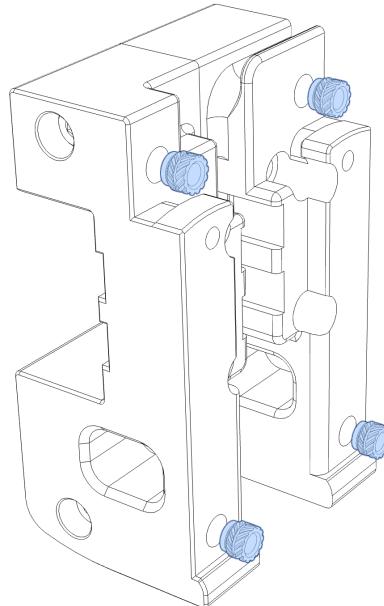
There's a trimming jig STL included in the release to make this task easier.

Do not damage the rear housing in the process.

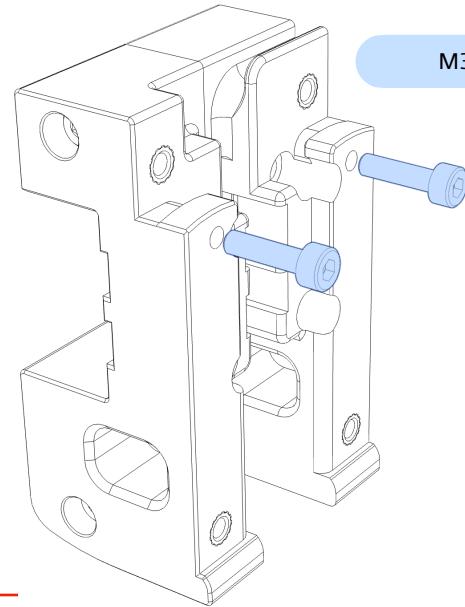




M3 Threaded Inserts



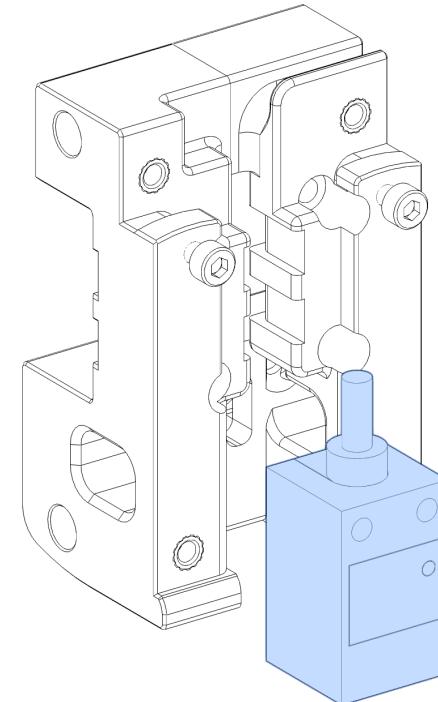
M3 x 12 SHCS

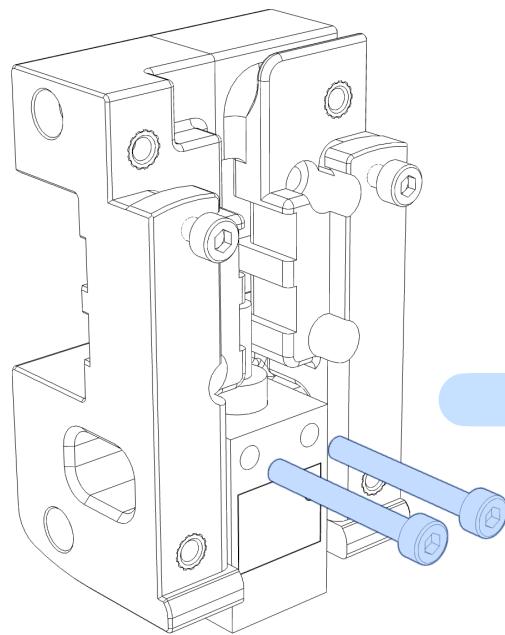


NOTE

Screws thread directly into plastic and serve as indexing pins for the hot end housing.

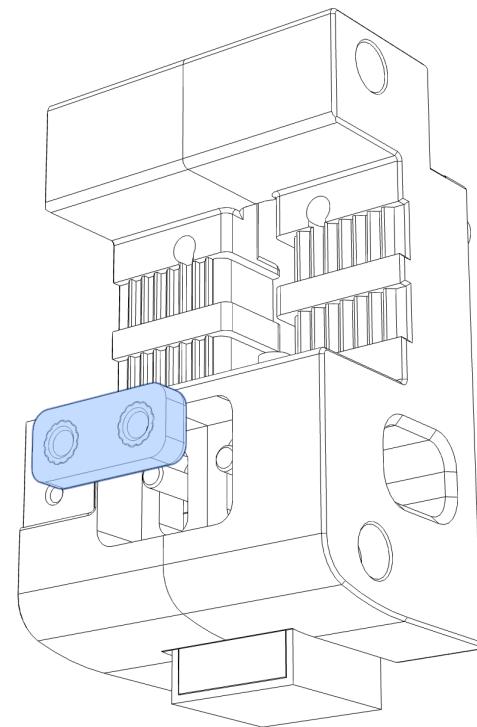
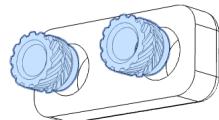
Leave an approximately 2mm gap when installing.

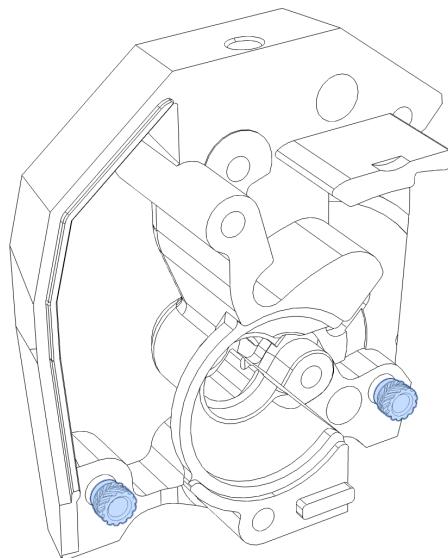




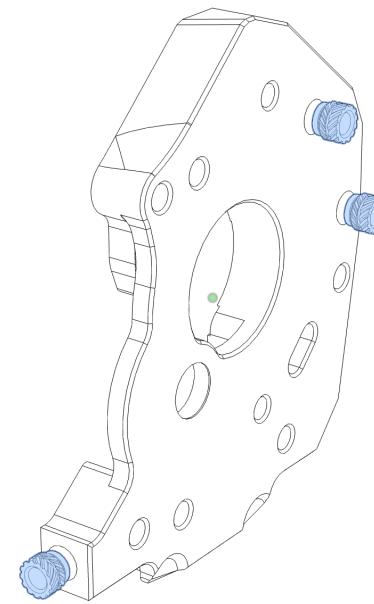
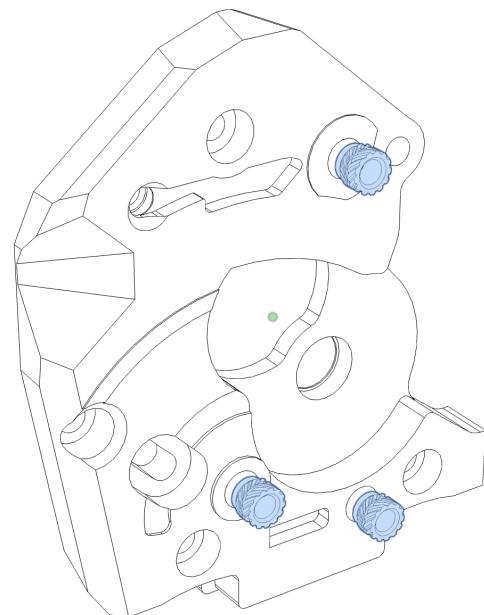
M3 x 25 SHCS

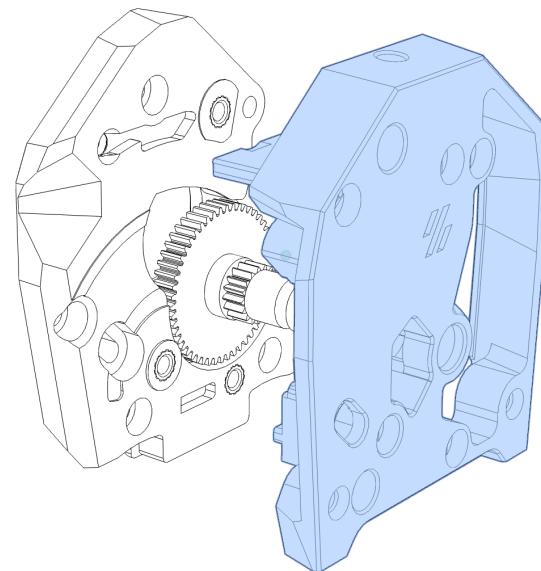
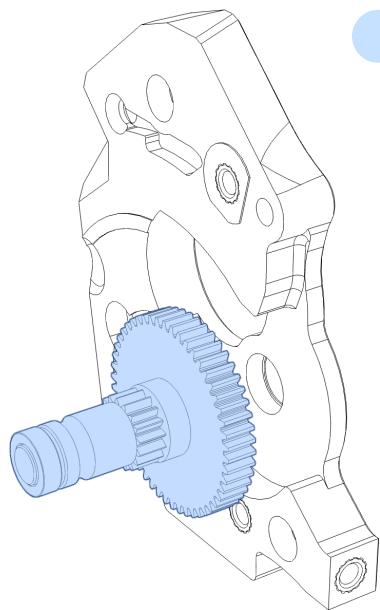
M3 Threaded Inserts



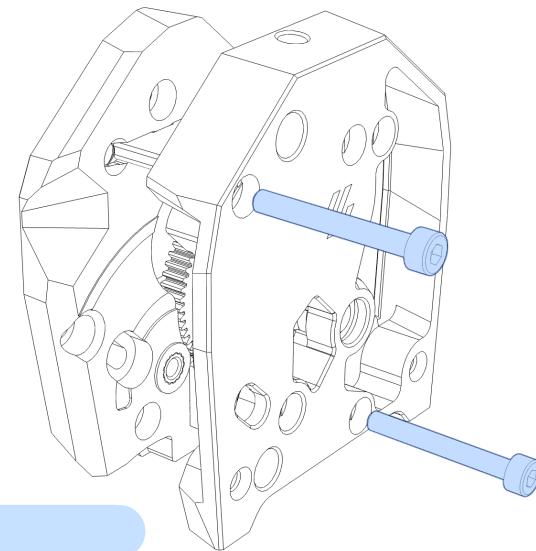


M3 Threaded Inserts

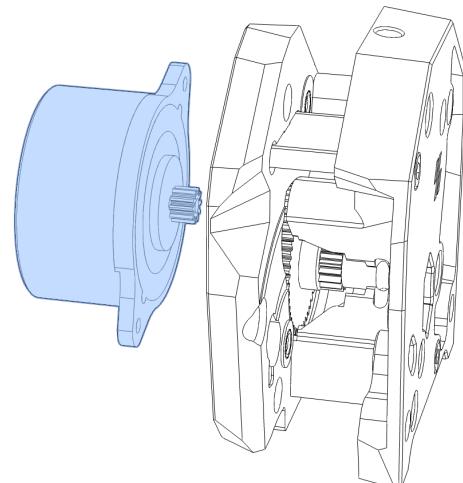


BMG Driveshaft Assembly**NOTE**

Do not over tighten the screws to avoid binding.

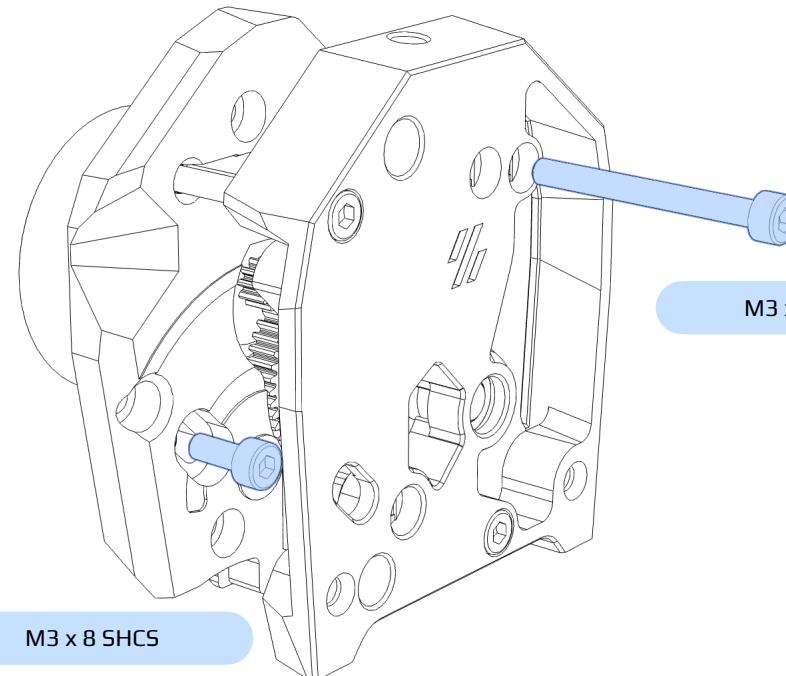
**M3 x 25 SHCS**

NEMA14 Pinion Stepper Motor



NOTE

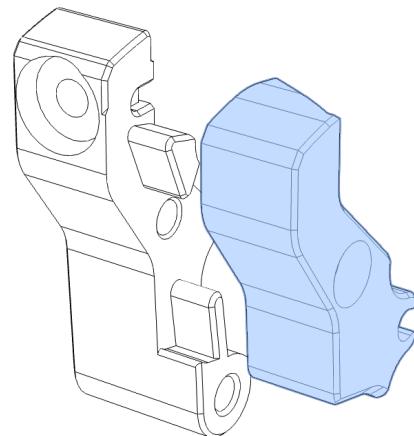
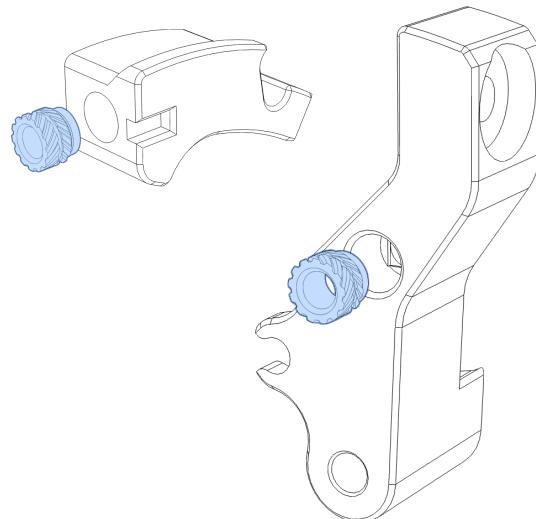
Pivot the motor to find the correct gear mesh position. There should be very slight backlash in the main drive gear.



M3 x 8 SHCS

M3 x 8 SHCS

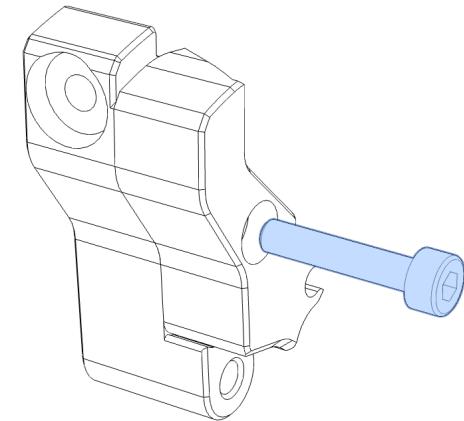
M3 Threaded Insert

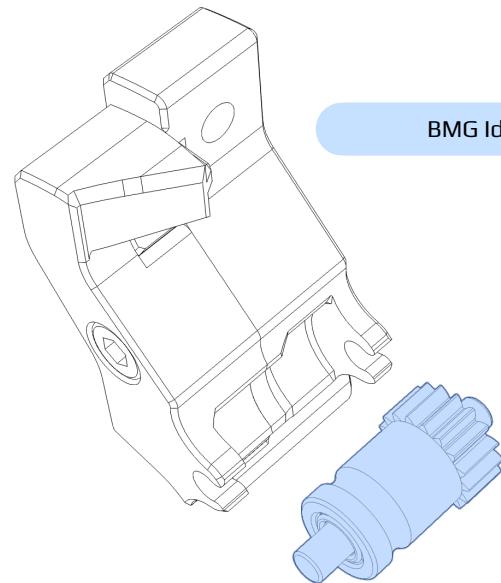


NOTE

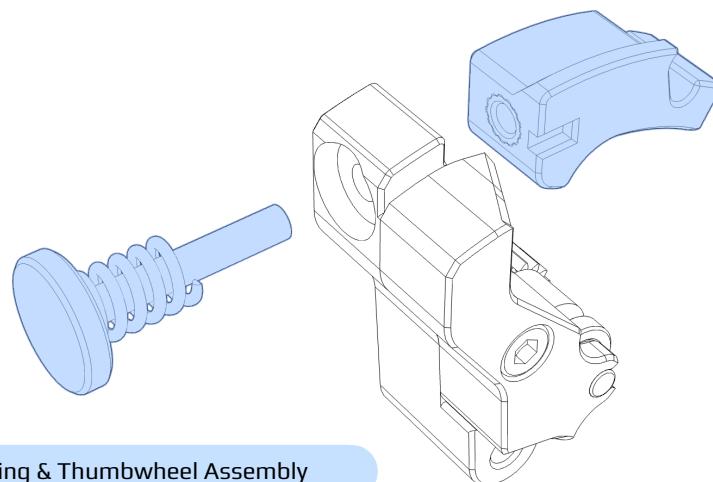
Screw hole clearances in the gilder are intentionally tight to ensure correct alignment.

M3 x 16 SHCS

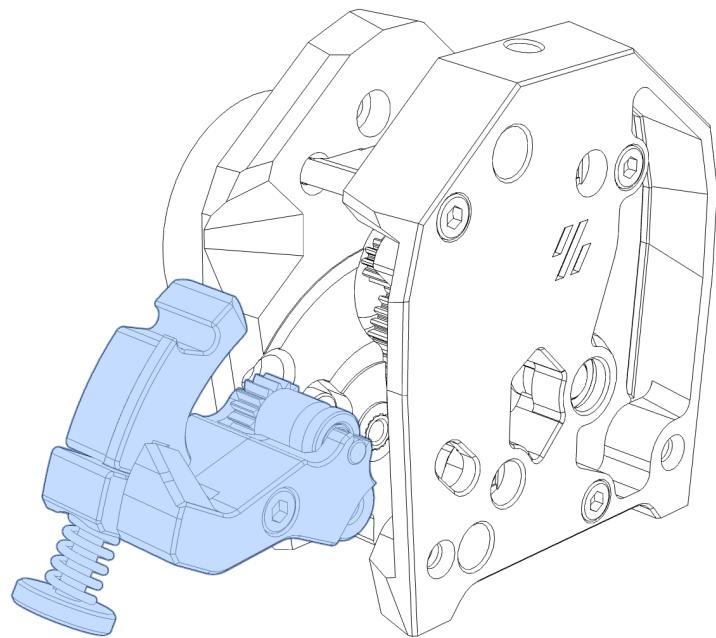




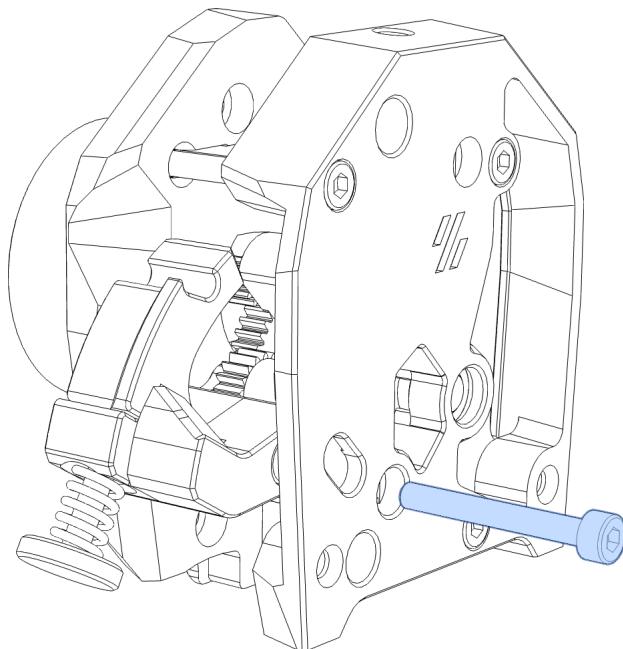
BMG Idler Gear Assembly

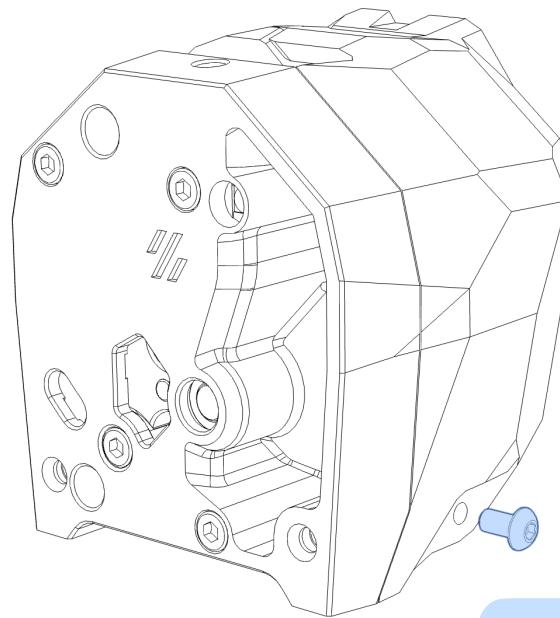
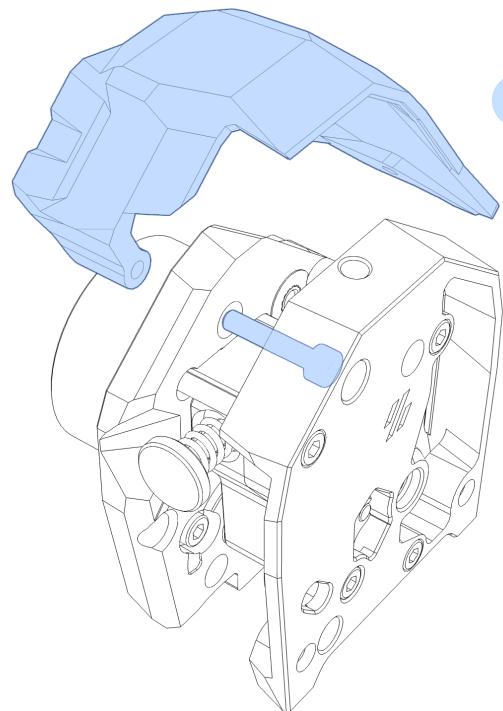


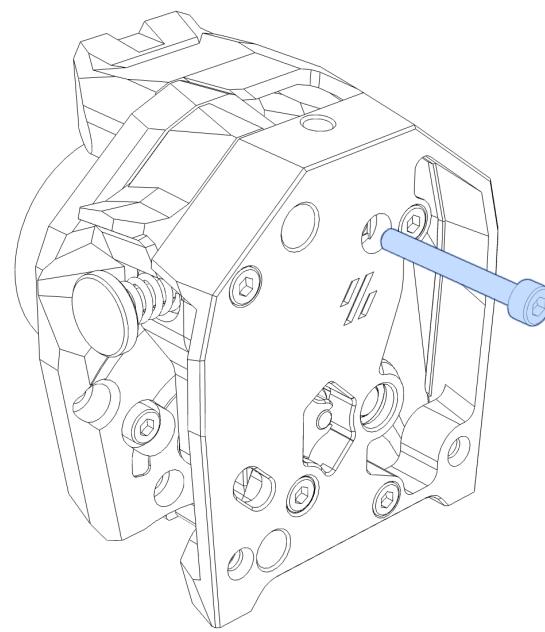
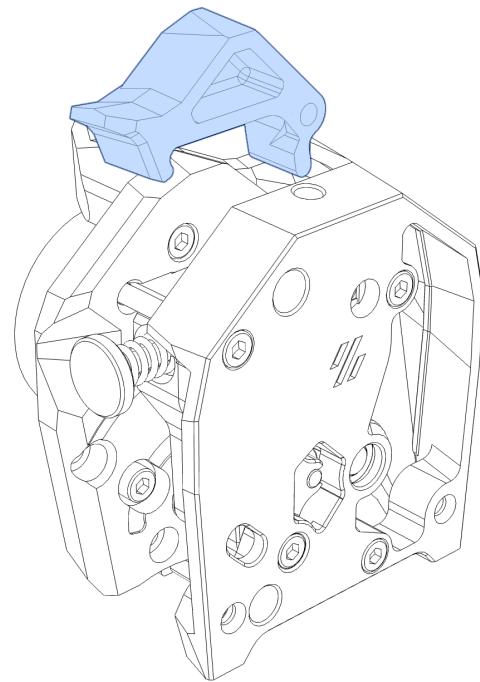
BMG Spring & Thumbwheel Assembly



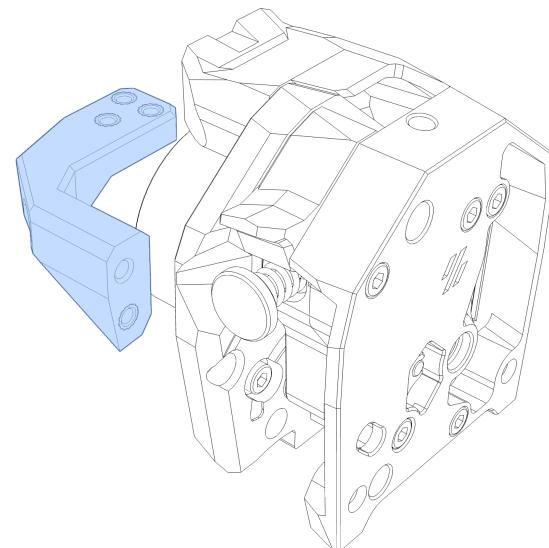
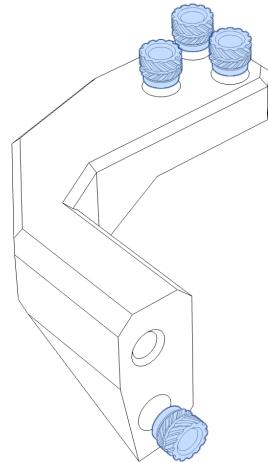
M3 x 25 SHCS



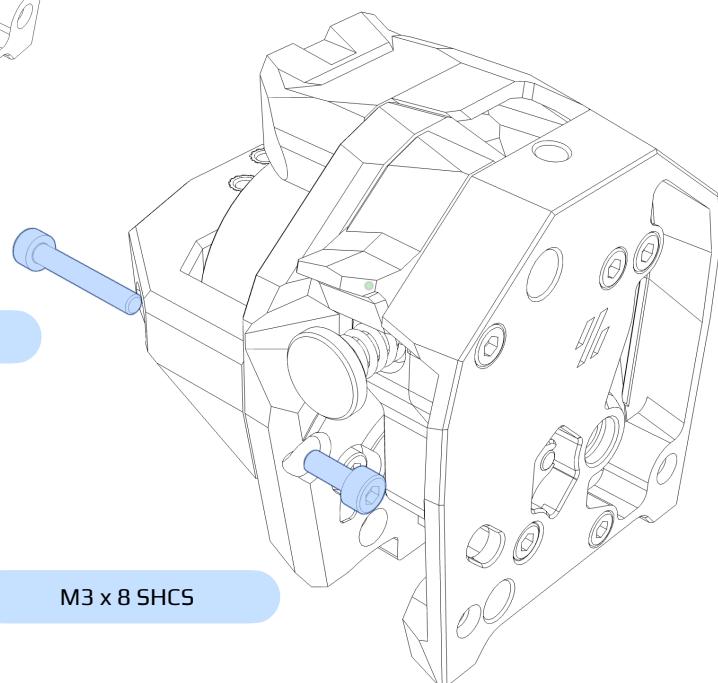




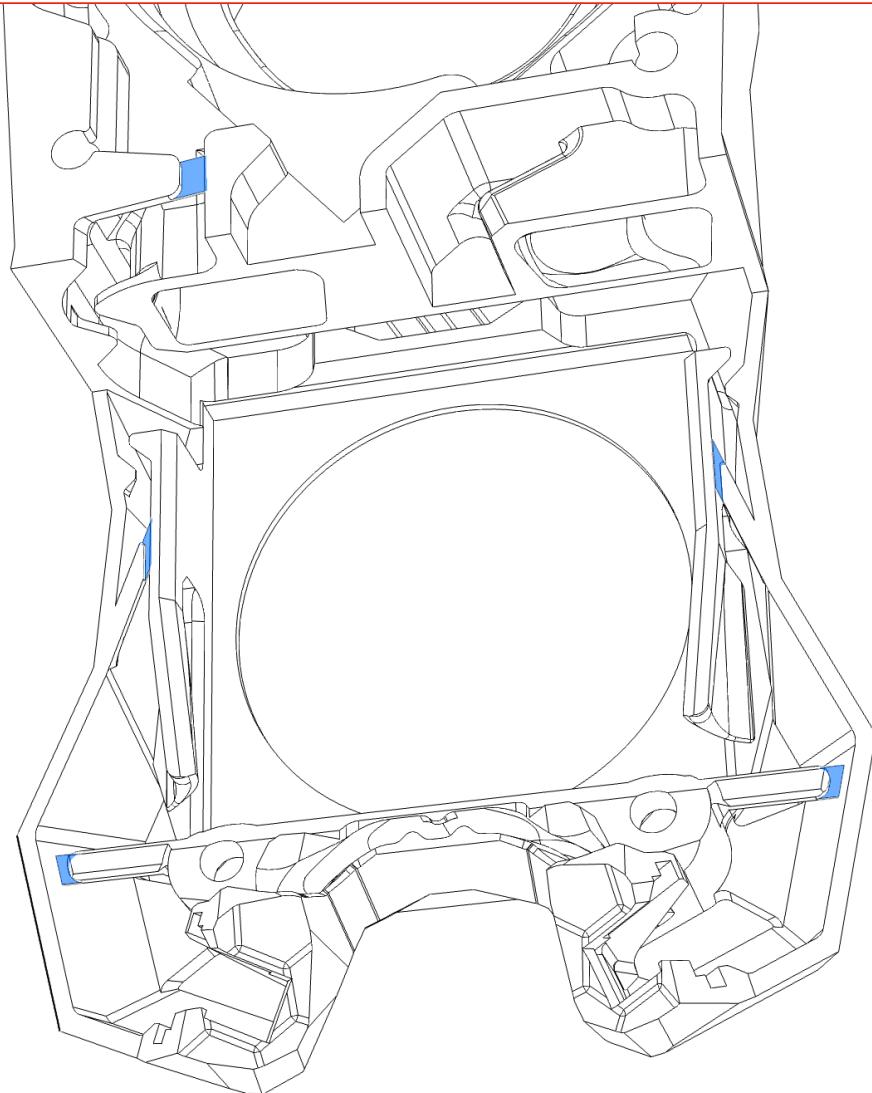
M3 Threaded Inserts



M3 x 20 SHCS

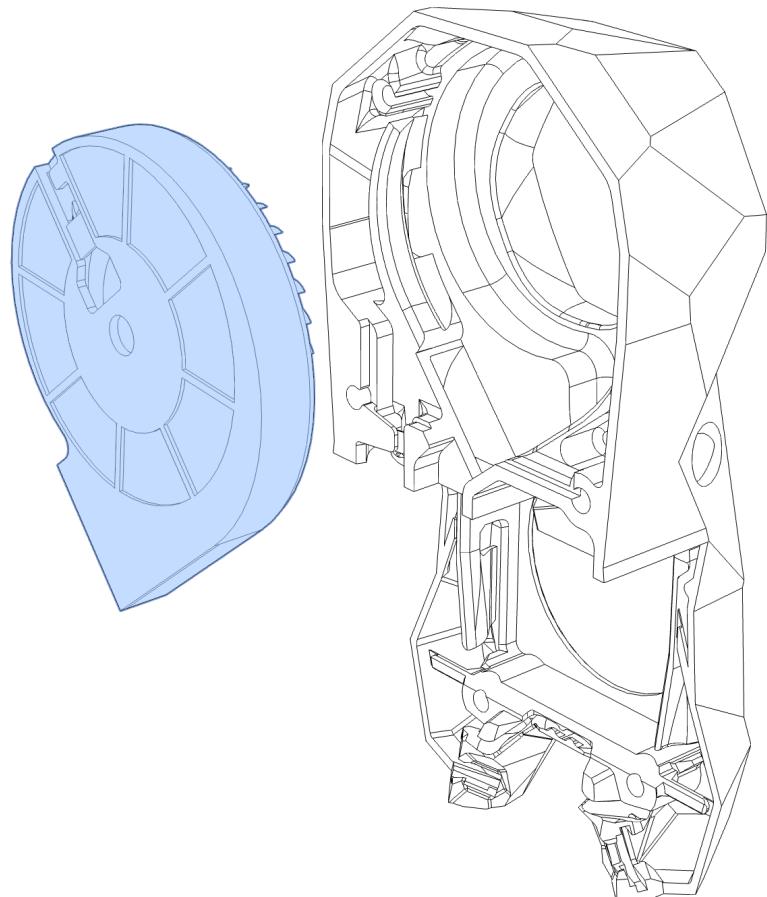


M3 x 8 SHCS

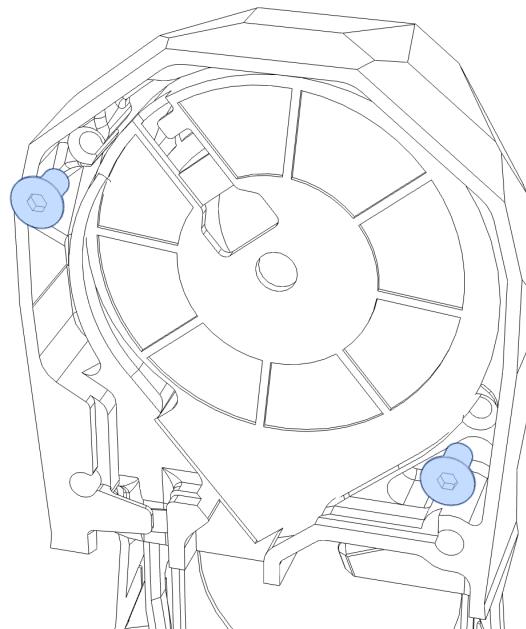
**NOTE**

Trim off bridge supports from wire management tabs.

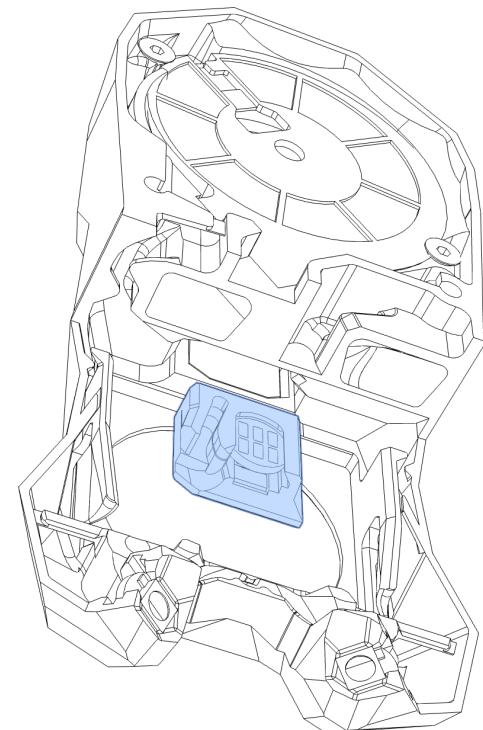
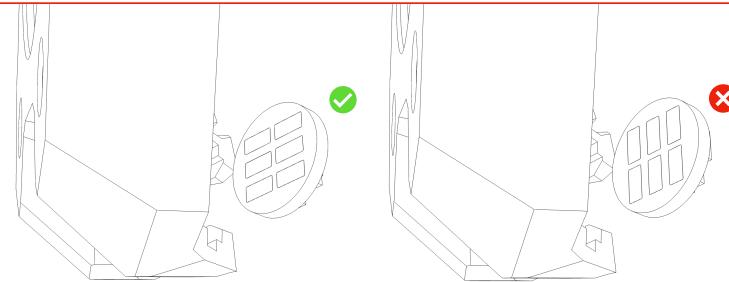
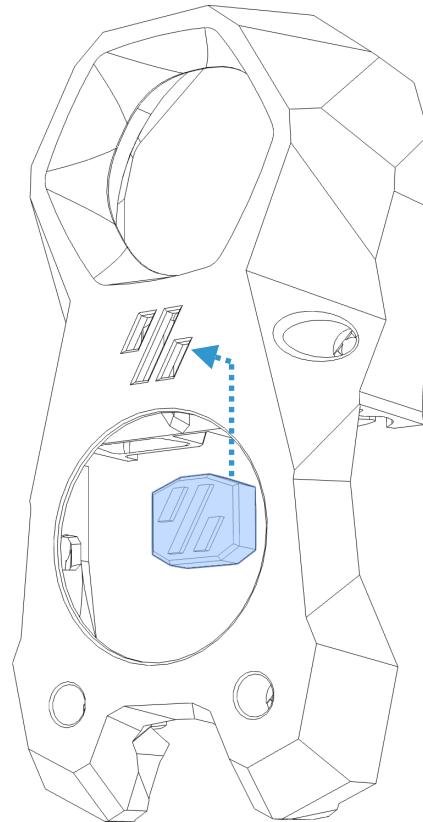
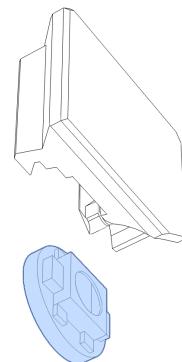
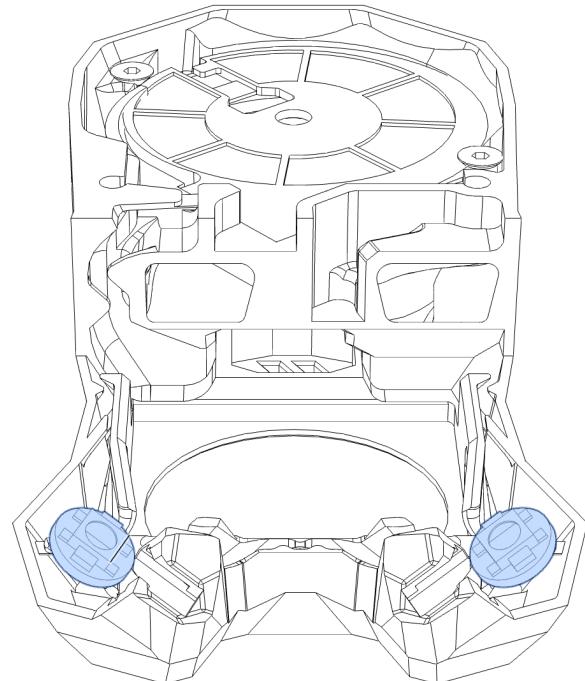
5015 Fan (Trimmed)

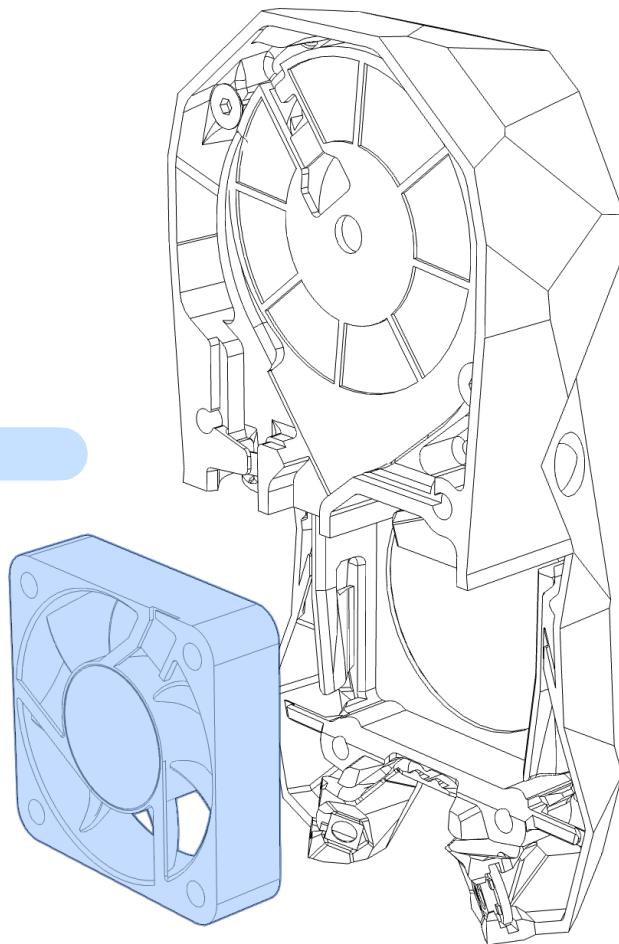


M3 x 6 FHCS



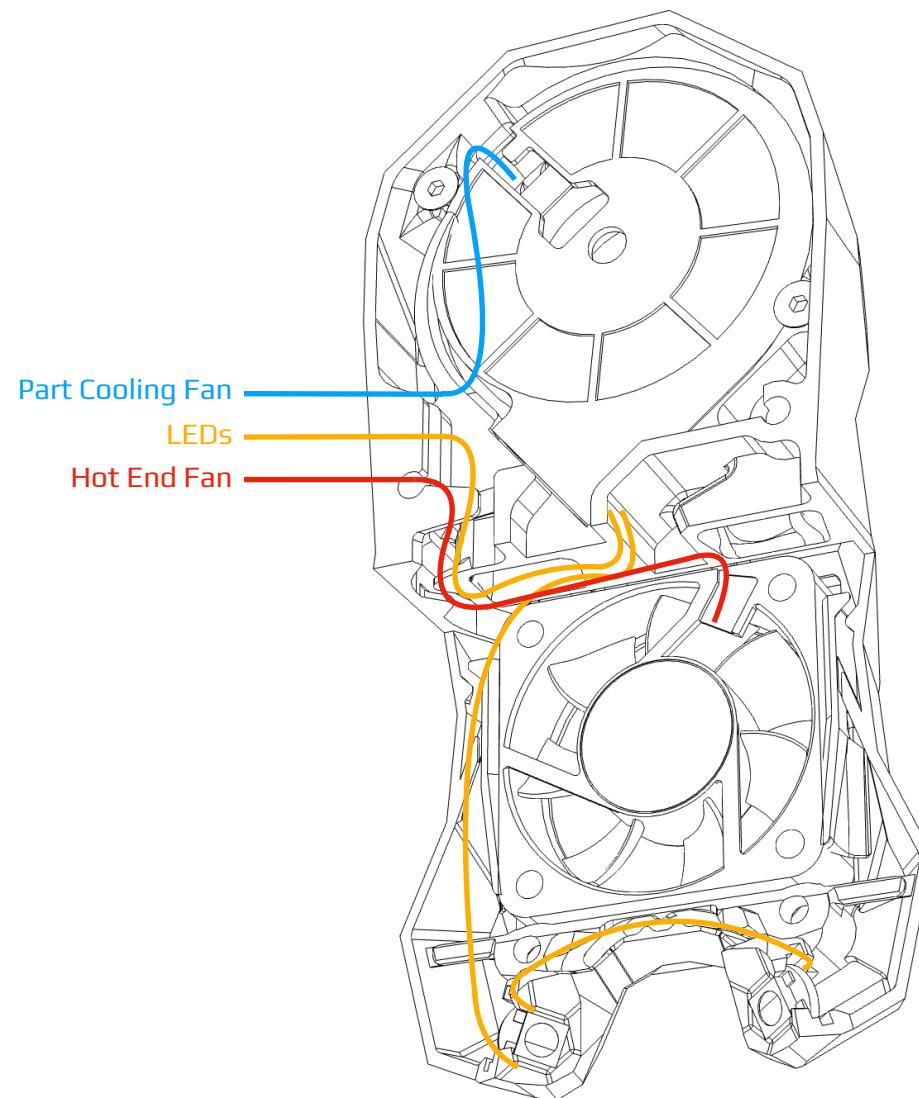
RGBW LED Module

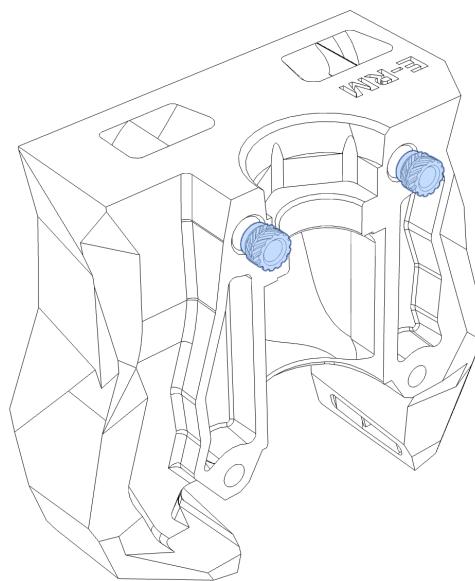


**NOTE**

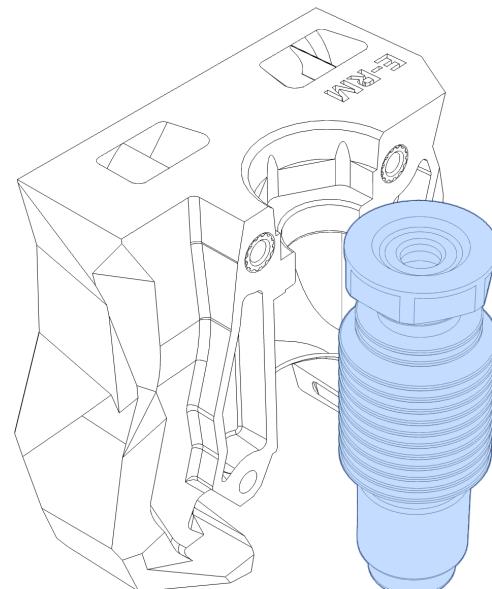
Tip the fan towards the top when inserting, then push down to fully seat.

Ensure wires are fully seated in the top channel.



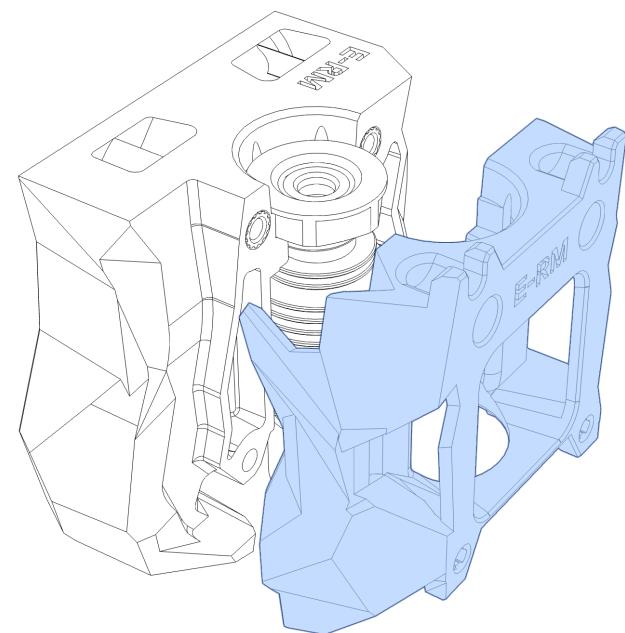


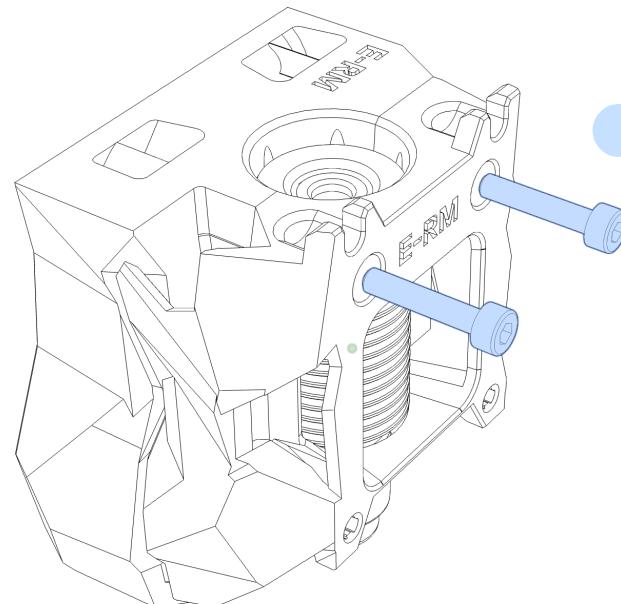
M3 Threaded Inserts



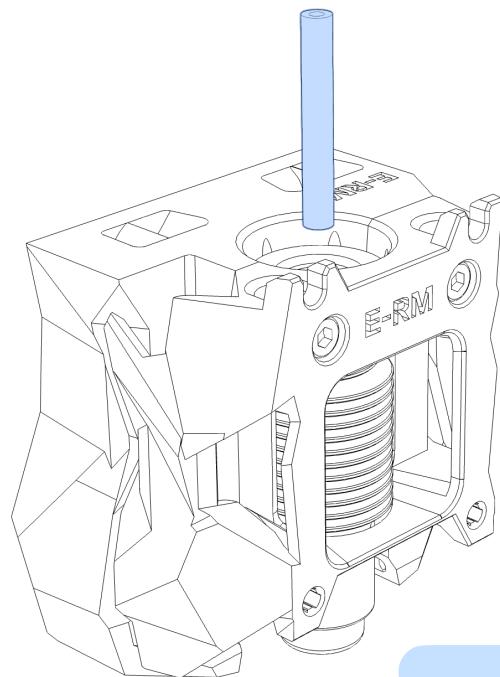
NOTE

E3D Revo Micro housing is pictured. Assembly steps for all hot end housings are identical.





M3 x 16 SHCS

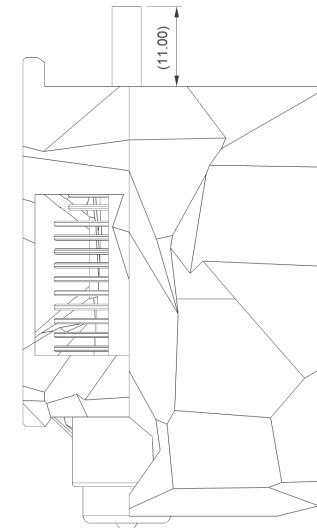


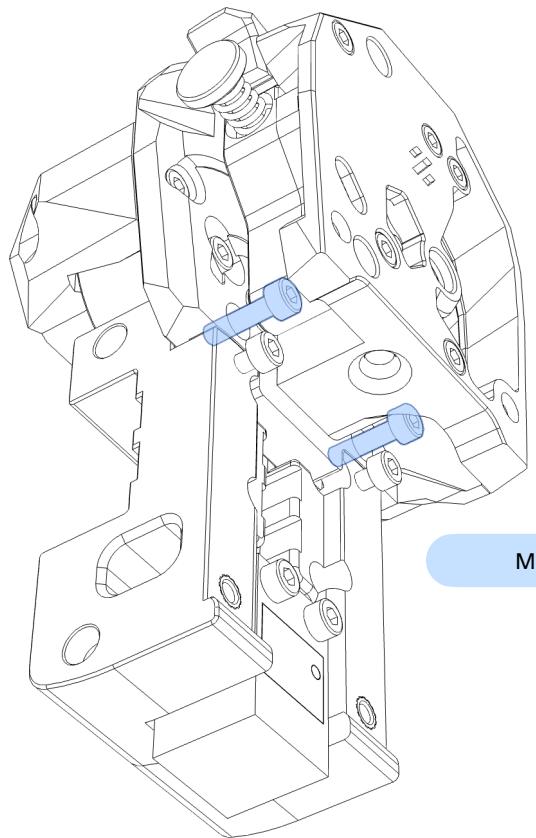
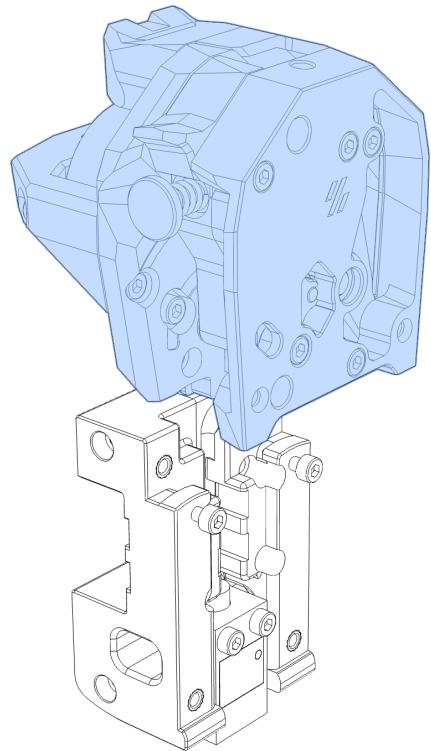
PTFE Tube (4mm OD 2mm ID)

NOTE

Use the channel on the side of the housing to route hot end cables before tightening the screws

PTFE tube length varies and is dependent on the hot end used.



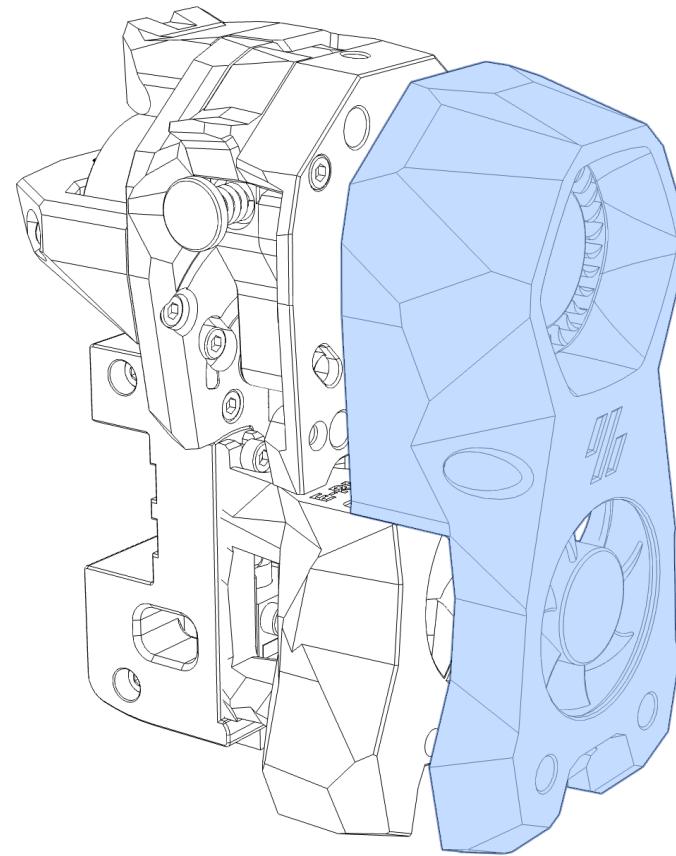
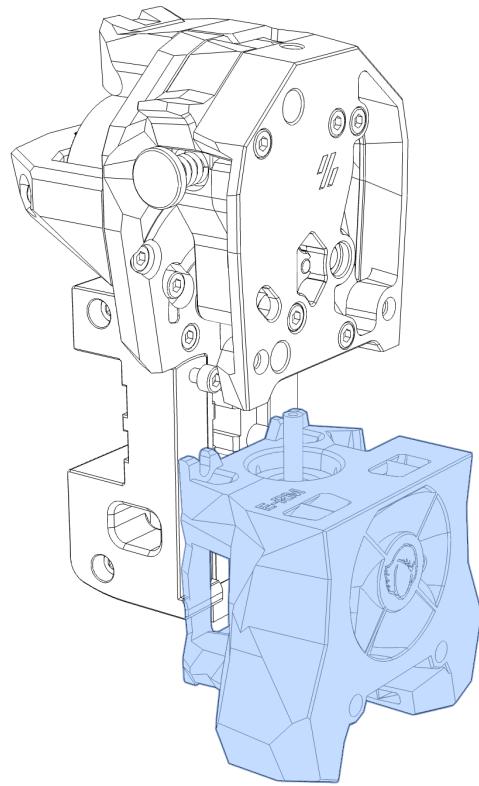


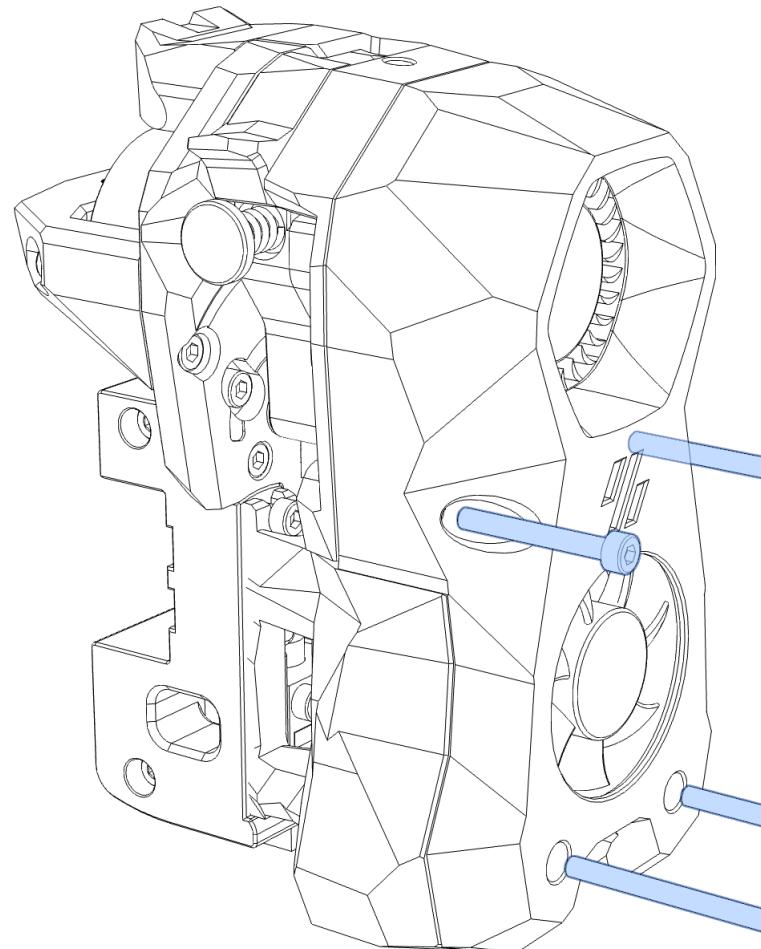
NOTE

X Carriage should already be mounted on the MGN12 rail and secured with four M3x8 SHCS

FINAL ASSEMBLY

BETA





M3 x 25 SHCS

M3 x 50 SHCS

NOTE

To remove and install the hot end housing, loosen M3x25 screws, and completely remove M3x50 screws.

Please provide any and all feedback on this BETA by filing a GitHub issue on the [Voron-Afterburner repo](#)

and / or

by voicing your experience in the [#stealthburner_beta](#) channel of our Discord server

[VORON Design Discord](#)

Enjoy!

