

BETA



# STEALTHBURNER

WE BUILD SPACE SHUTTLES WITH GARDENING TOOLS

V1.05-BETA

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

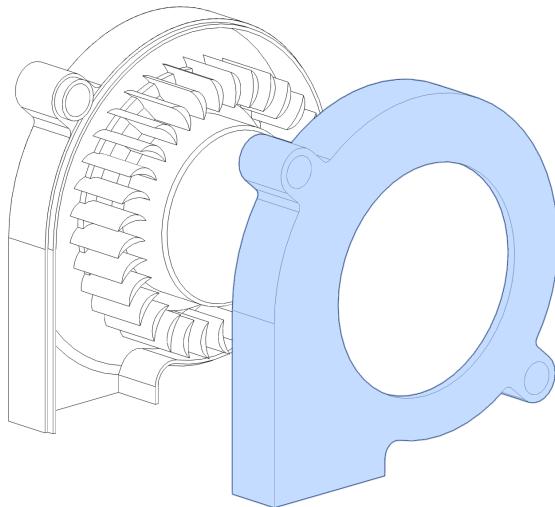
Be aware these steps may differ from the final release version.

Good luck! 

Out of Date. For Reference Only

4	COOLING FAN PREP
5	X CARRIAGE FRAME
8	CLOCKWORK2
18	FAN MODULE
23	HOT END HOUSING
25	FINAL ASSEMBLY
29	CW2 EXPLODED DIAGRAM

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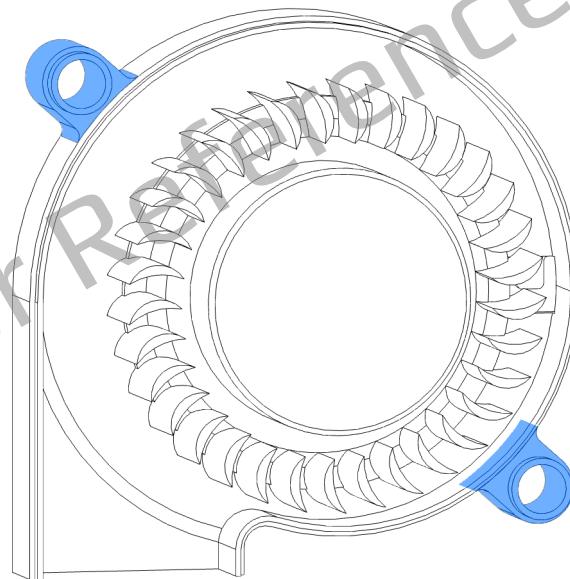
**NOTE**

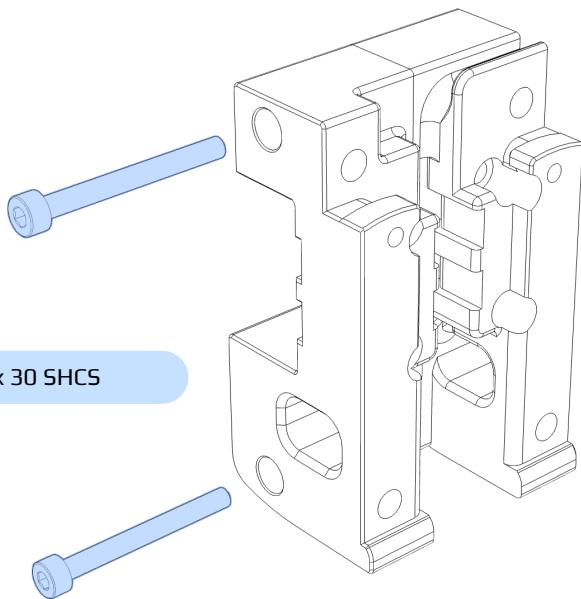
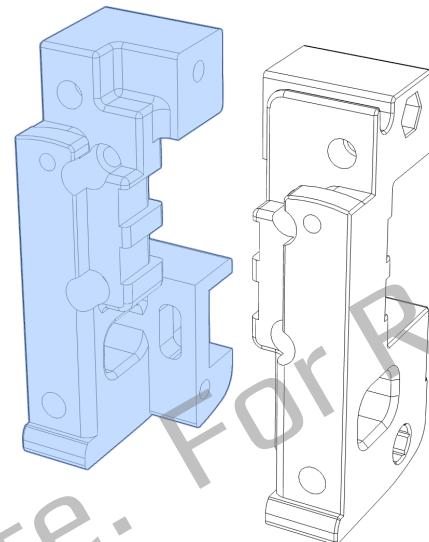
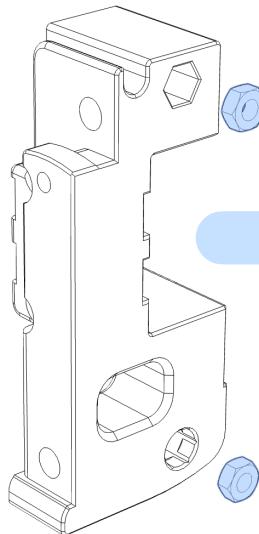
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Remove the front of the 5015 fan. Clip off and file down the stock mounting ears.

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

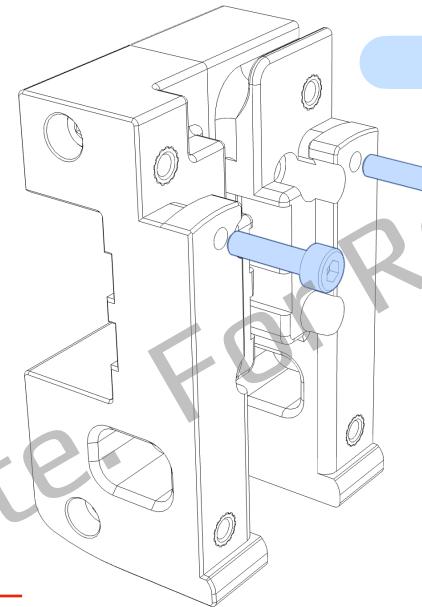
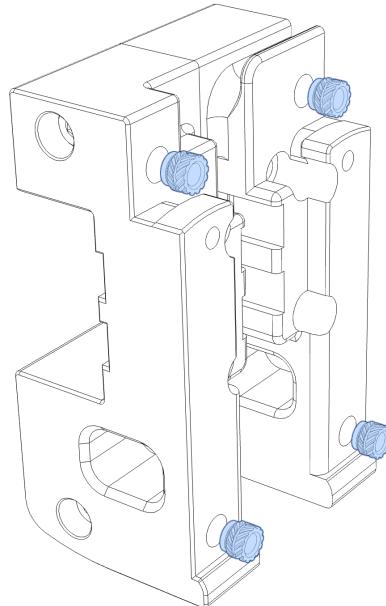
Do not damage the rear housing in the process.



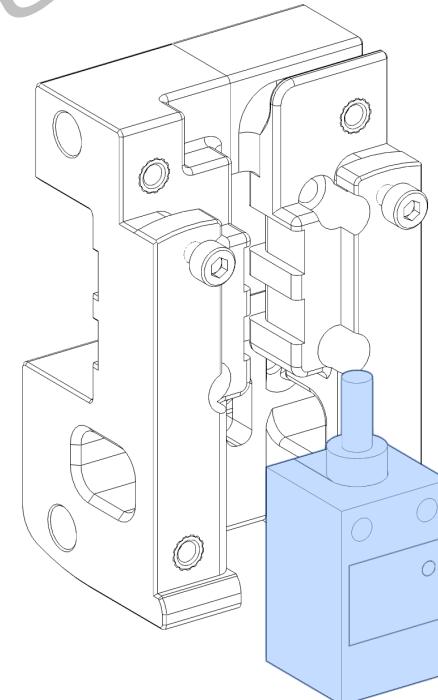


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M3 Threaded Inserts



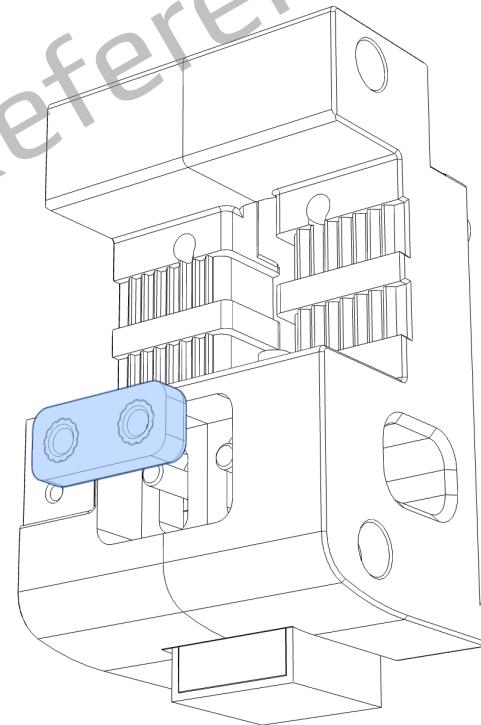
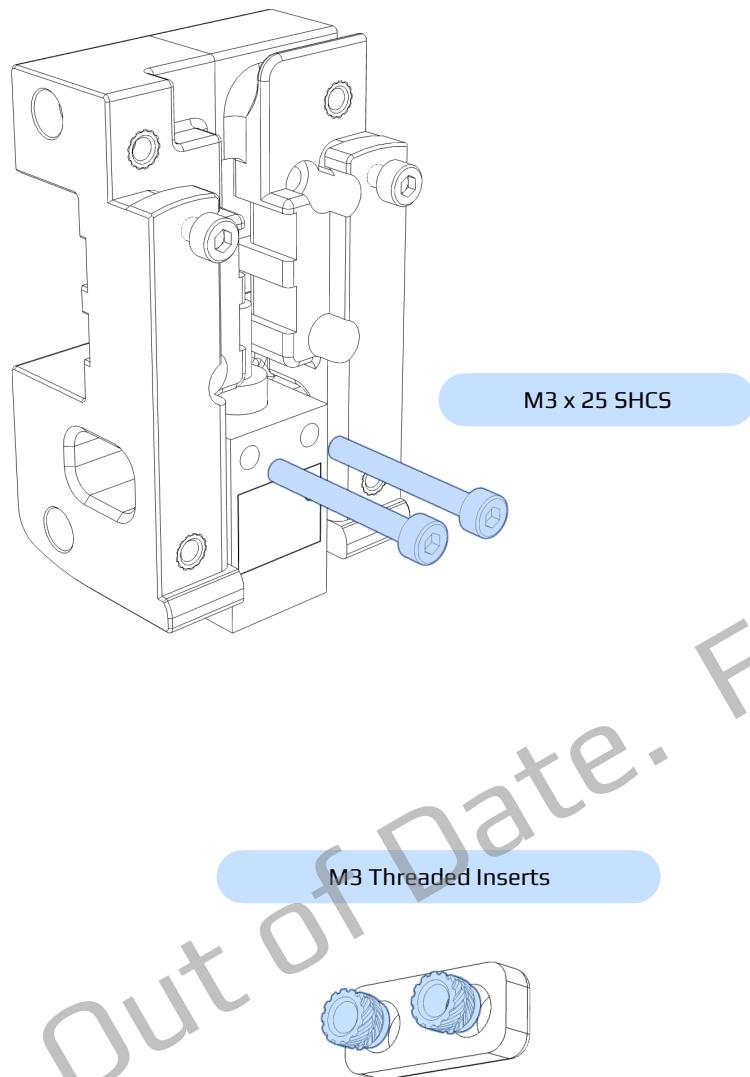
M3 x 12 SHCS

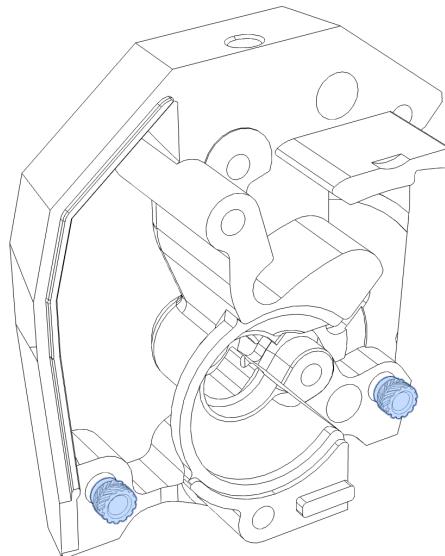


**NOTE**

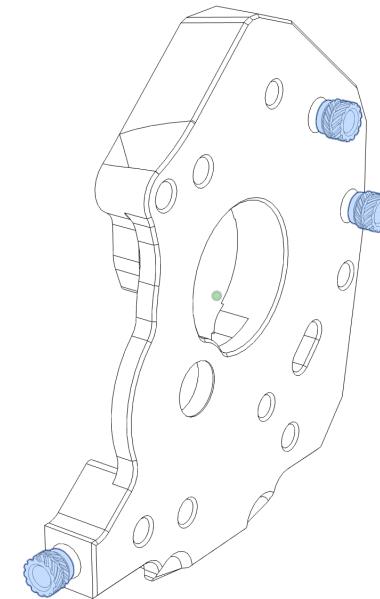
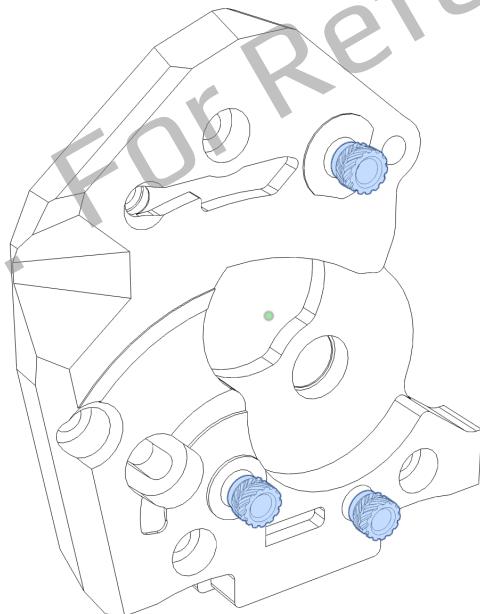
Screws thread directly into plastic and serve as indexing pins for the hot end housing.

Leave an approximately 2mm gap when installing.

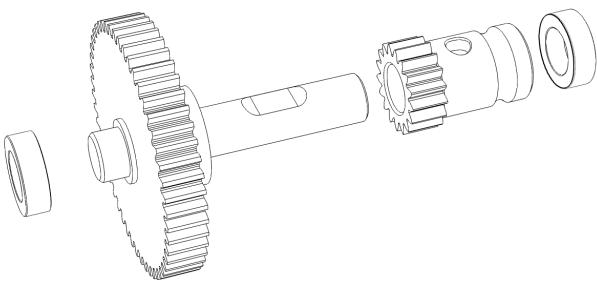




M3 Threaded Inserts



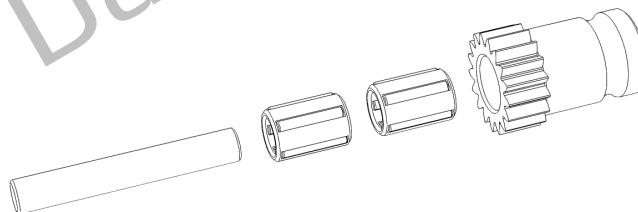
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BMG Driveshaft Assembly

**NOTE**

Use thread locker when installing the drive gear set screw

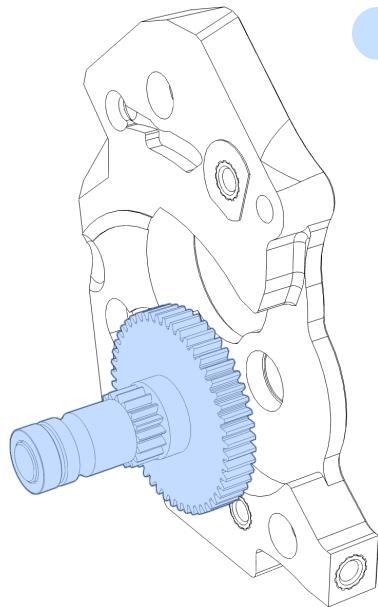


BMG Idler Gear Assembly

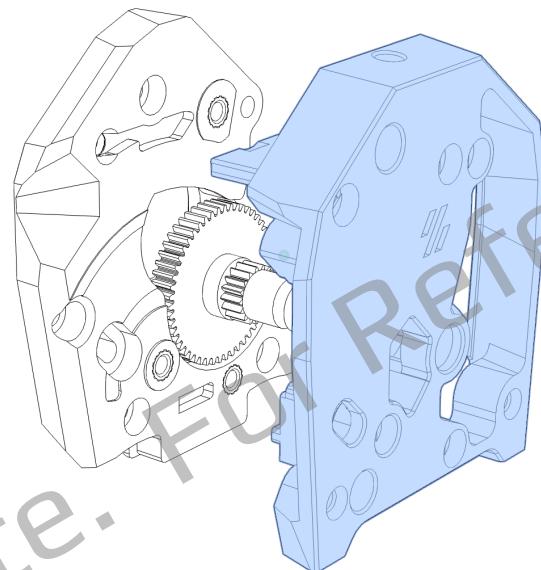
**NOTE**

Lubricate the needle bearings with grease before installation.

Use just enough for a thin coat.

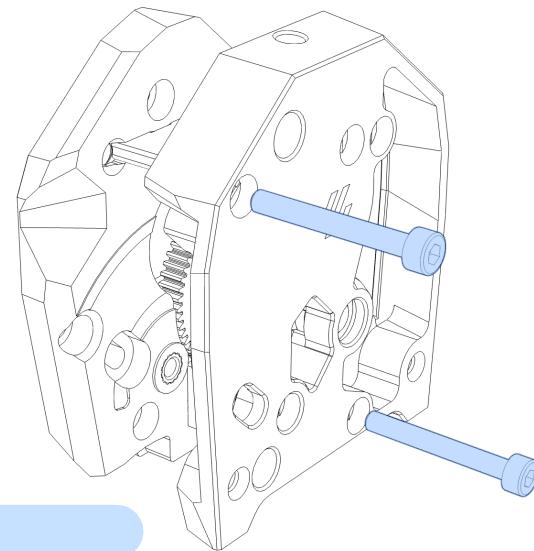


BMG Driveshaft Assembly

**NOTE**

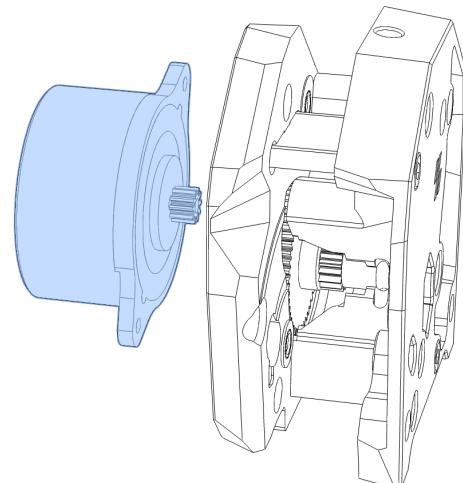
Do not over tighten the screws to avoid binding.

Be sure the gear with the grub screw is installed on the driveshaft.



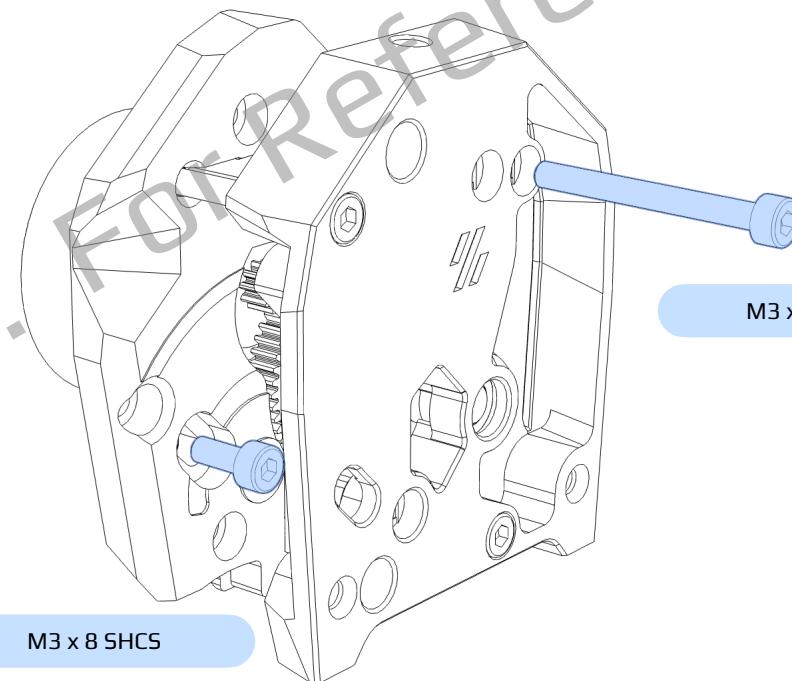
M3 x 25 SHCS

NEMA14 Pinion Stepper Motor



## NOTE

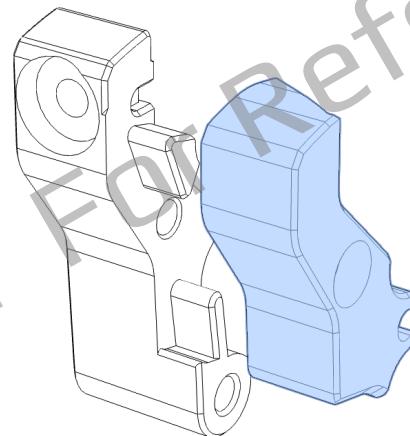
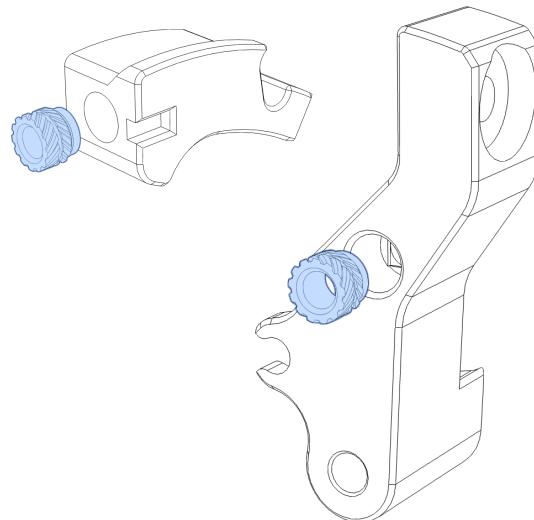
Pivot the motor to find the correct gear mesh position. There should be very slight backlash in the main drive gear.



M3 x 8 SHCS

M3 x 30 SHCS

M3 Threaded Insert

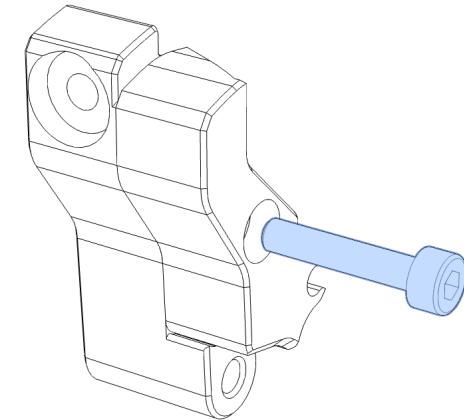


**NOTE**

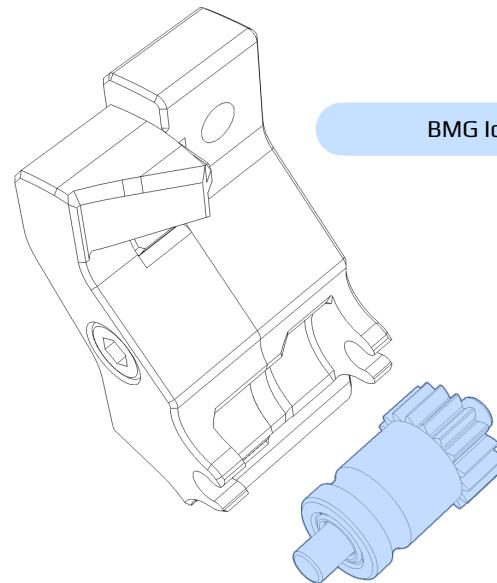
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Screw hole clearances in the guidler are intentionally tight to ensure correct alignment.

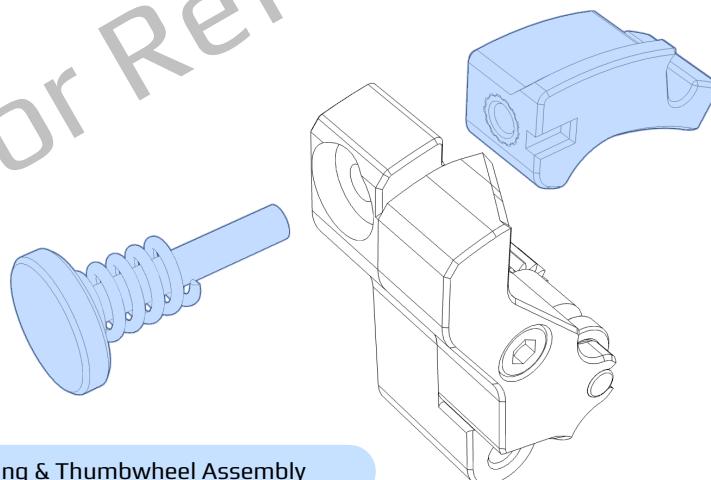
M3 x 16 SHCS



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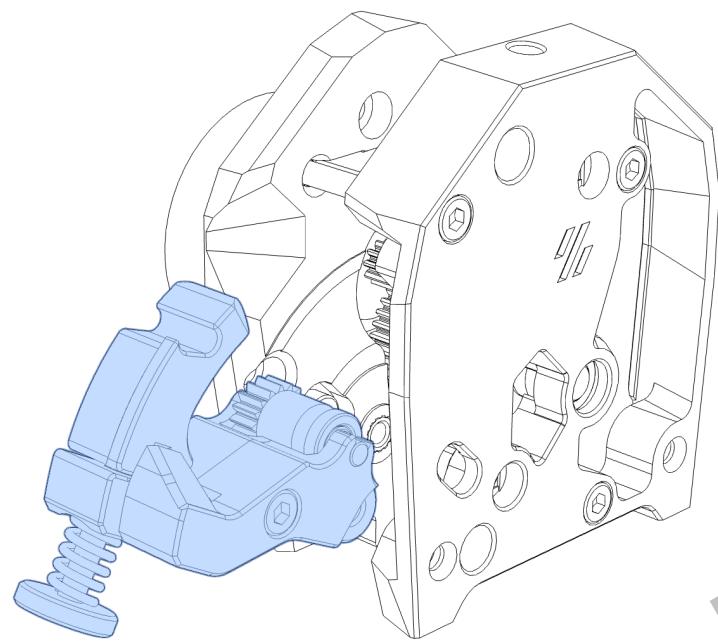
BMG Idler Gear Assembly



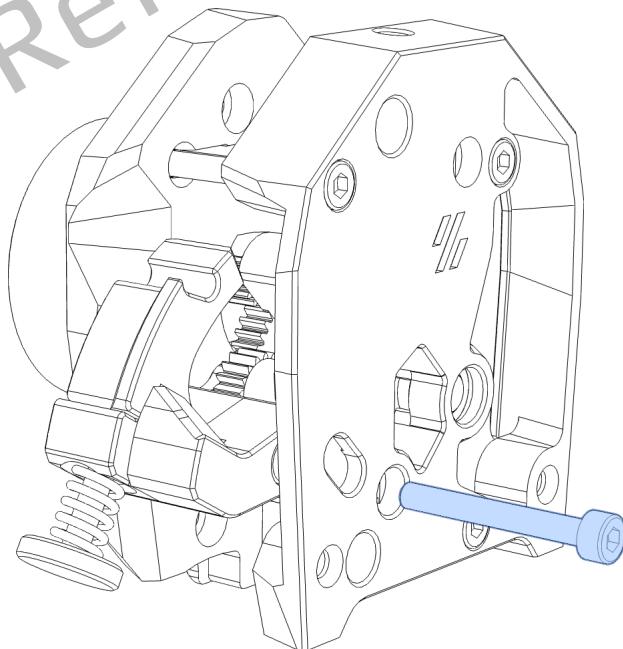
BMG Spring &amp; Thumbwheel Assembly

**NOTE**

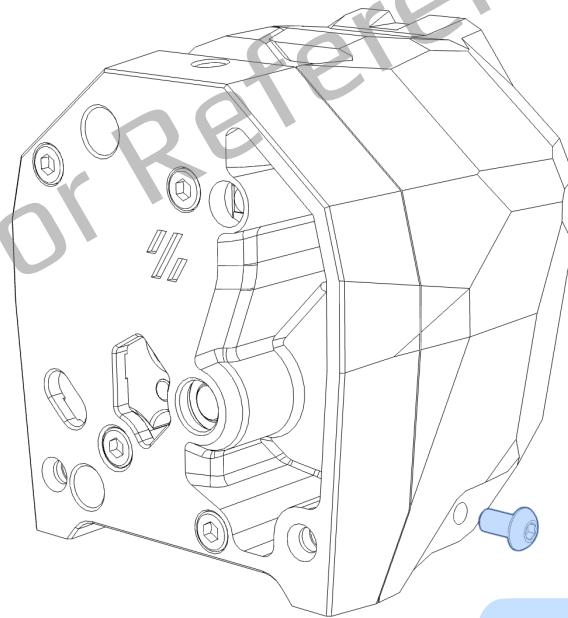
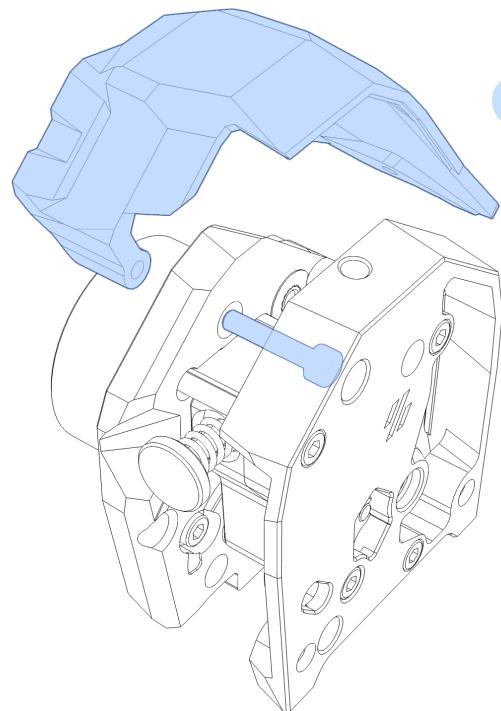
Due to variances in thumbscrews and springs, the plastic washer for the thumbscrew assembly may or may not be needed achieve proper tension on your filament.



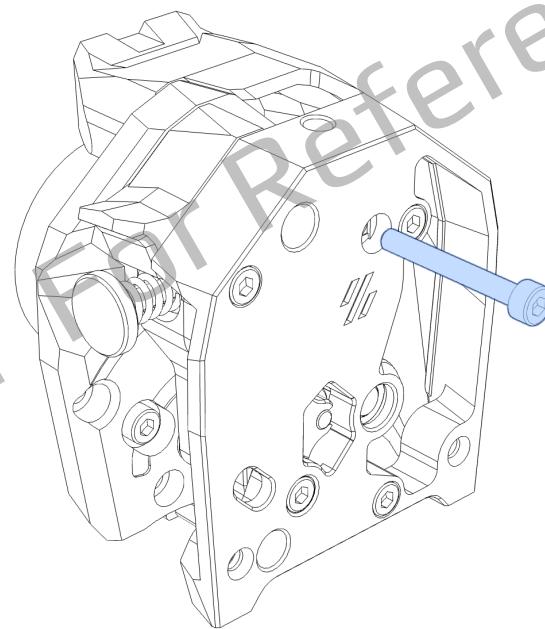
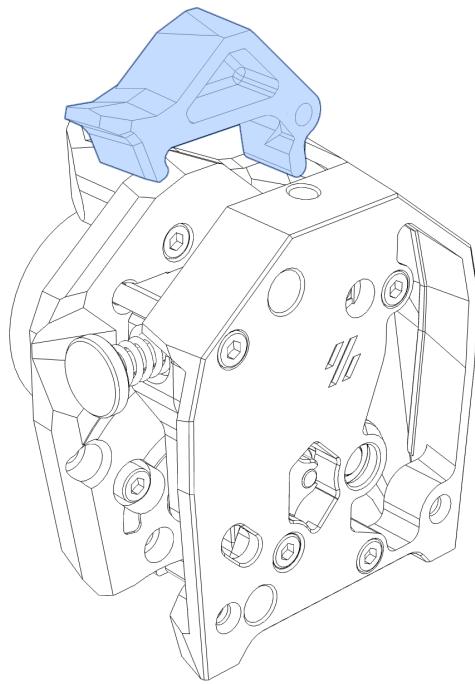
M3 x 25 SHCS



Out of Date. For Reference Only

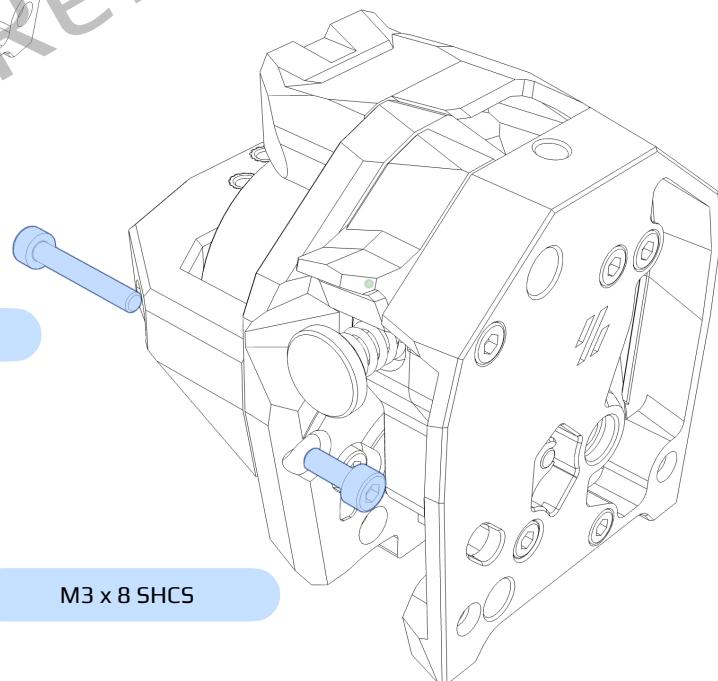
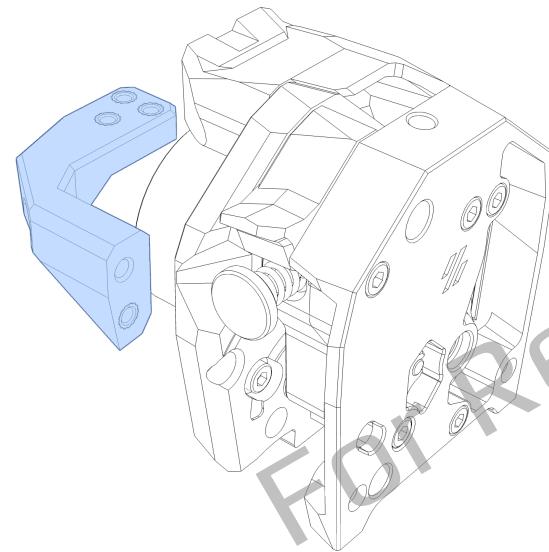
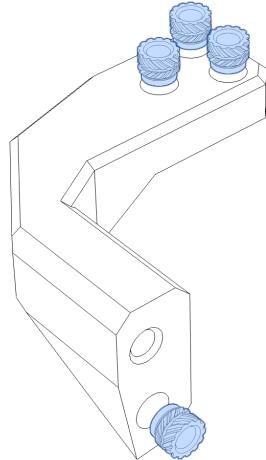


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M3 Threaded Inserts



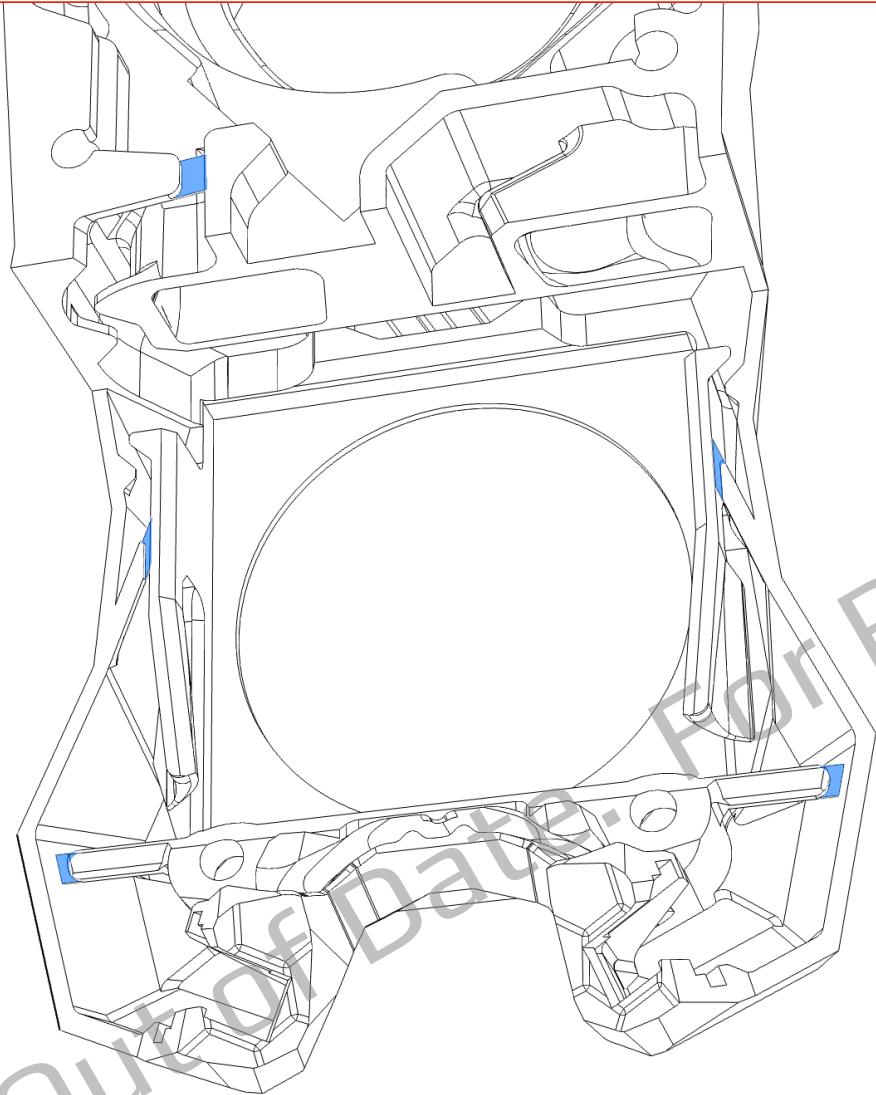
M3 x 20 SHCS

M3 x 8 SHCS

**NOTE**

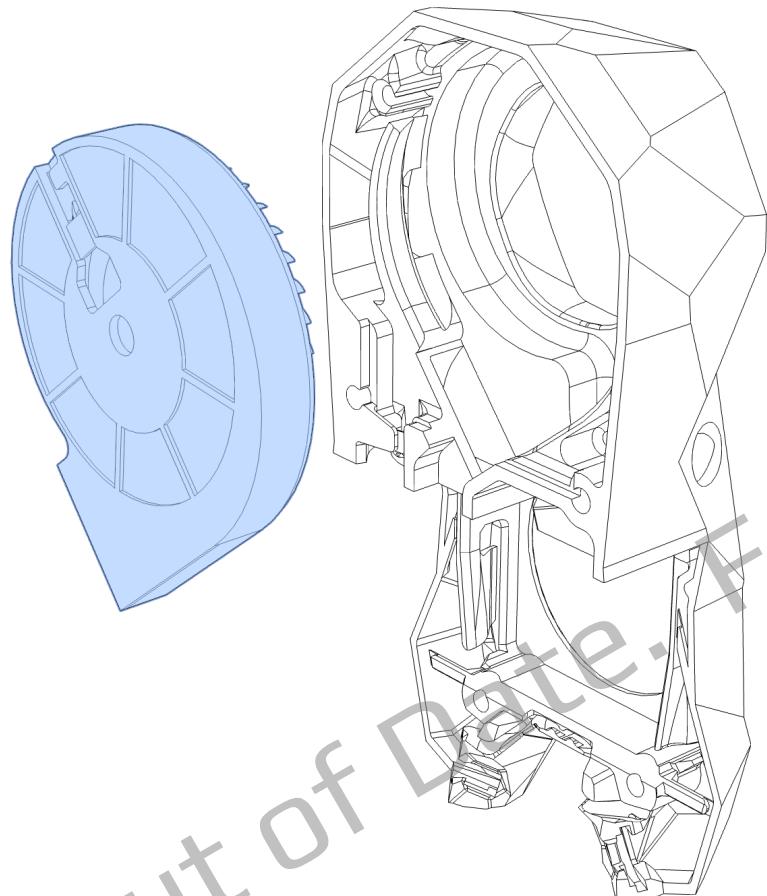
3-hole chain anchor mount shown. STLs are provided for other configurations.

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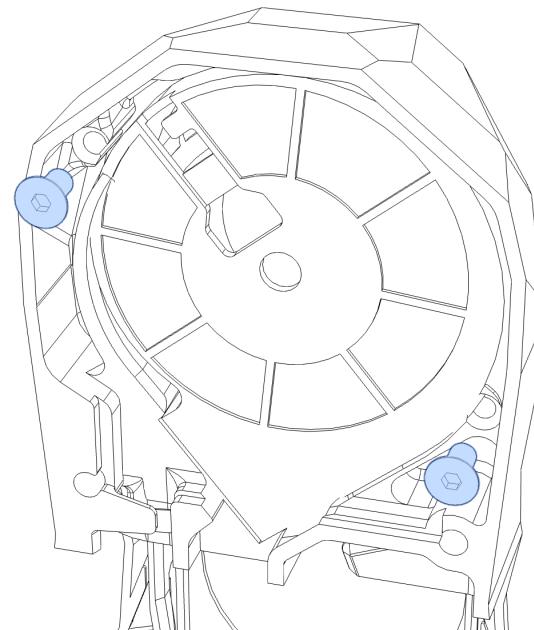
**NOTE**

Trim off bridge supports from  
wire management tabs.

5015 Fan (Trimmed)

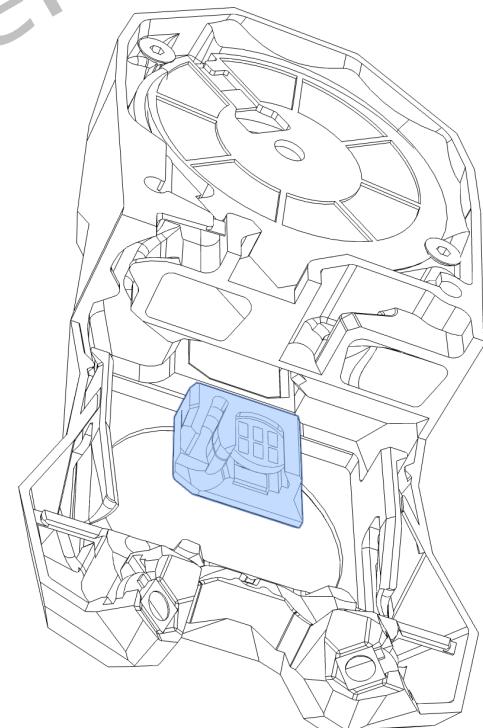
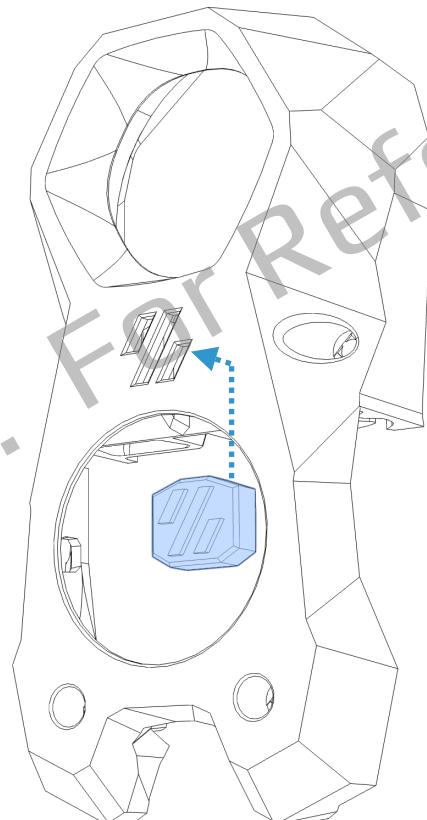
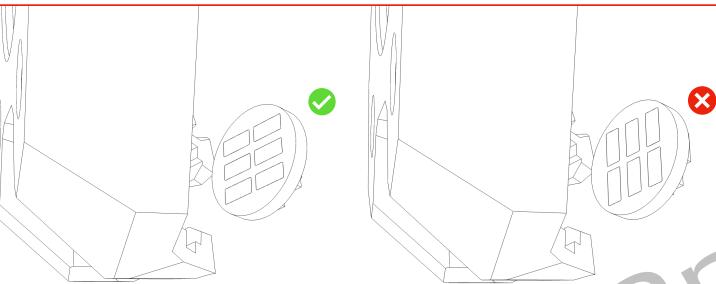
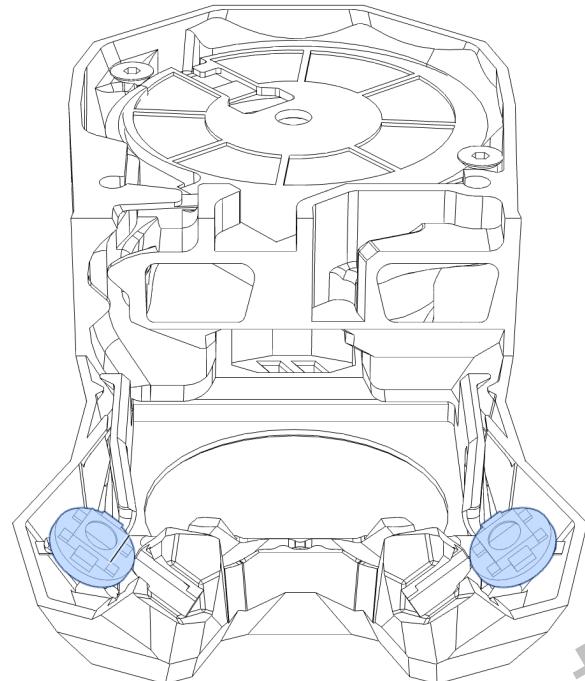


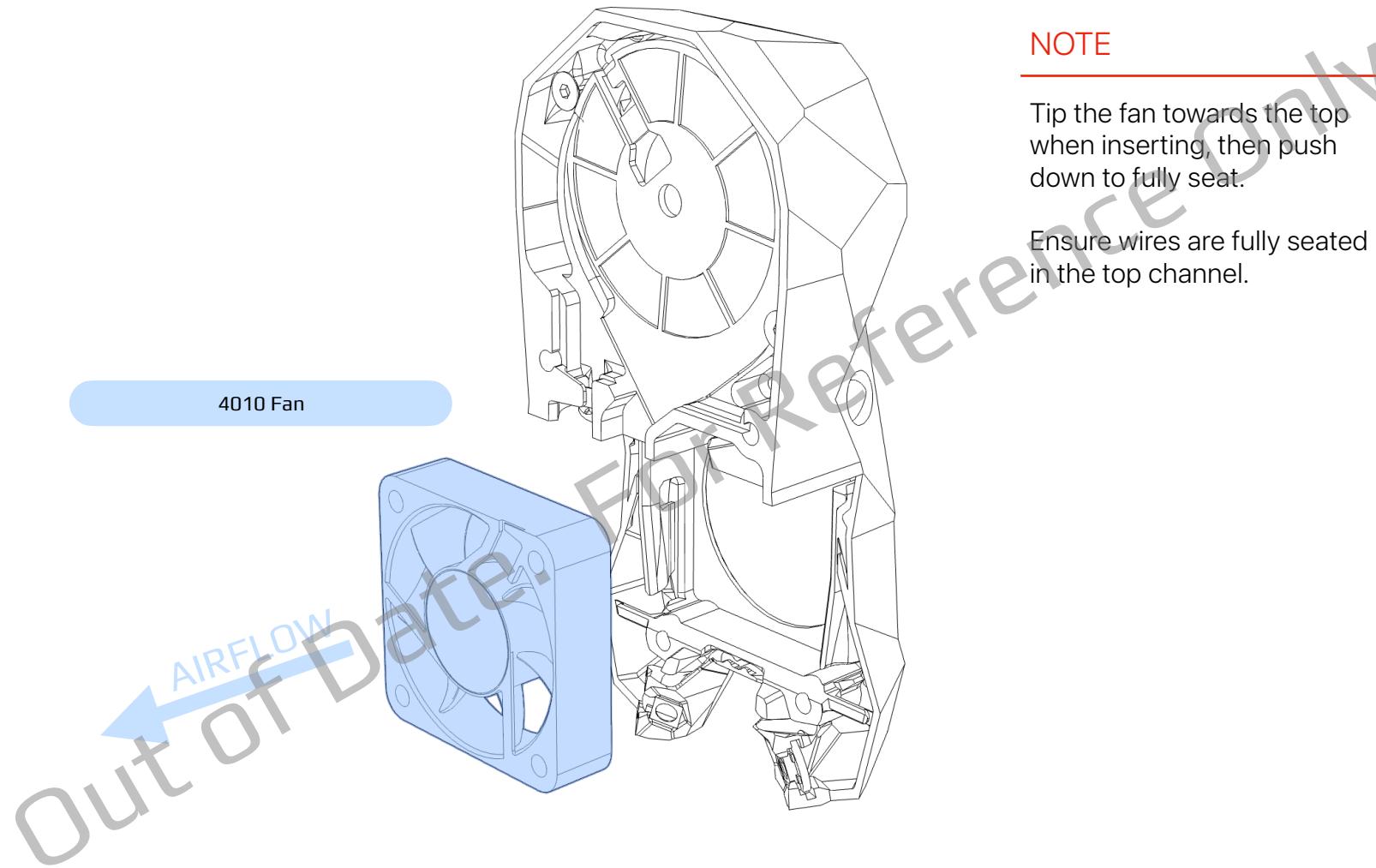
M3 x 6 FHCS

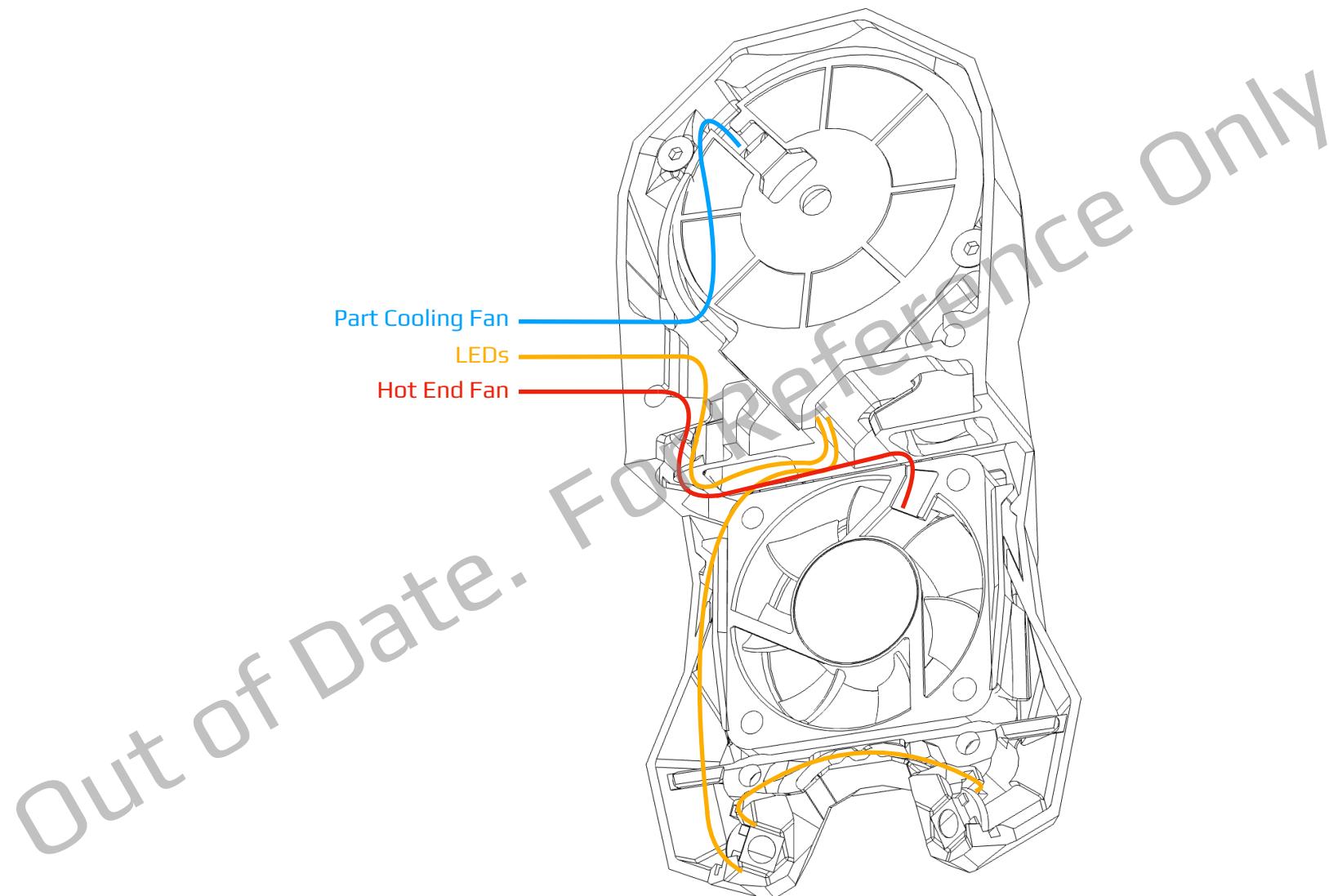


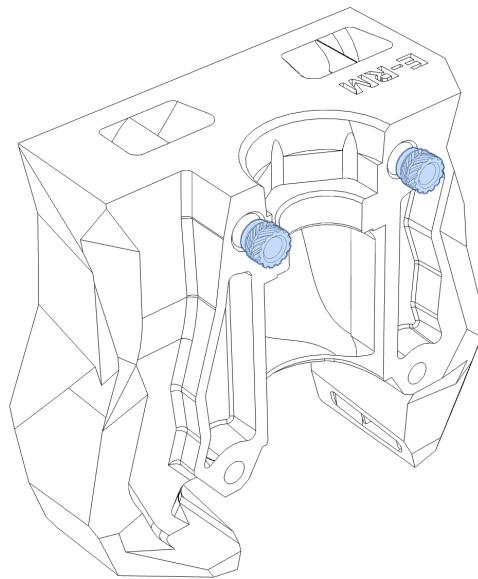
Out of Date. For Reference Only

RGBW LED Module

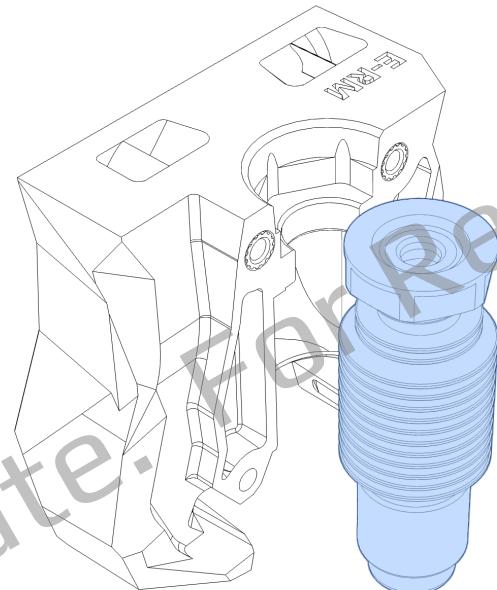








M3 Threaded Inserts



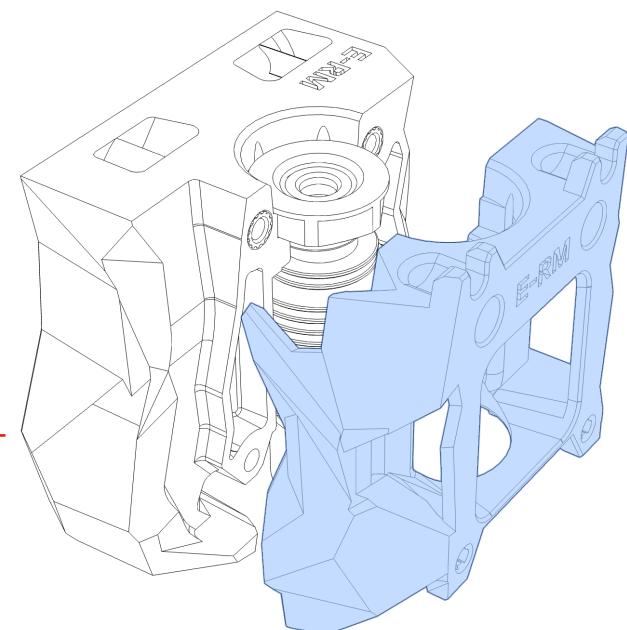
## NOTE

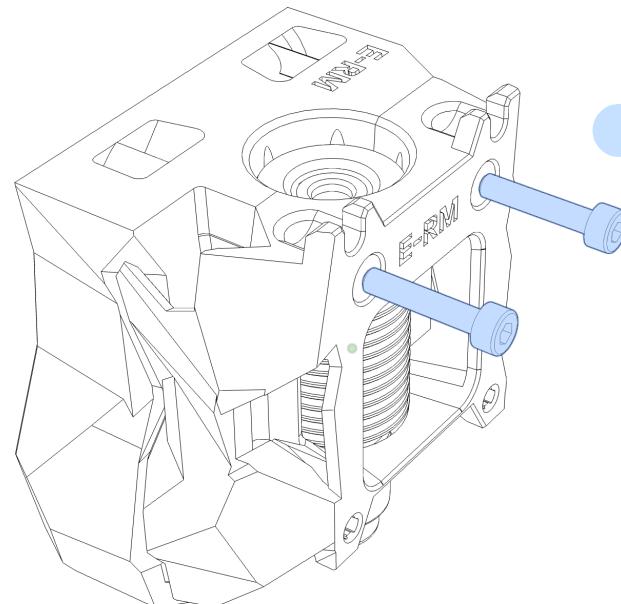
CW1 Compatibility version of the rear toolhead housing (with an extra wire cutout) is shown.

CW2 does not require this cutout.

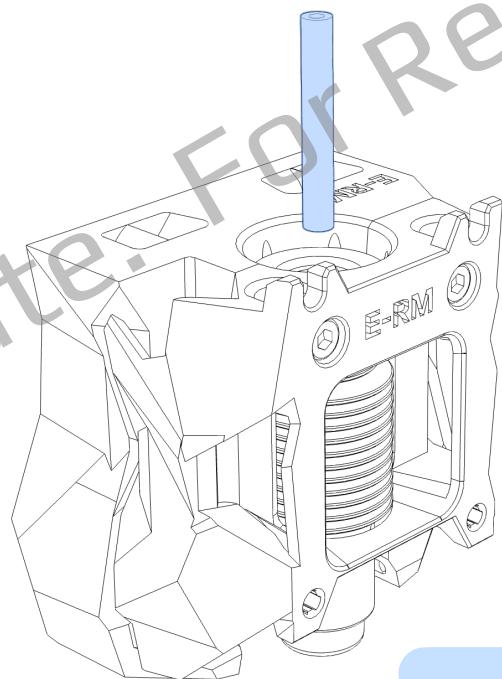
## NOTE

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





M3 x 16 SHCS

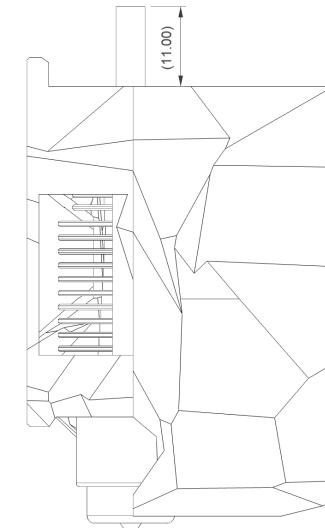


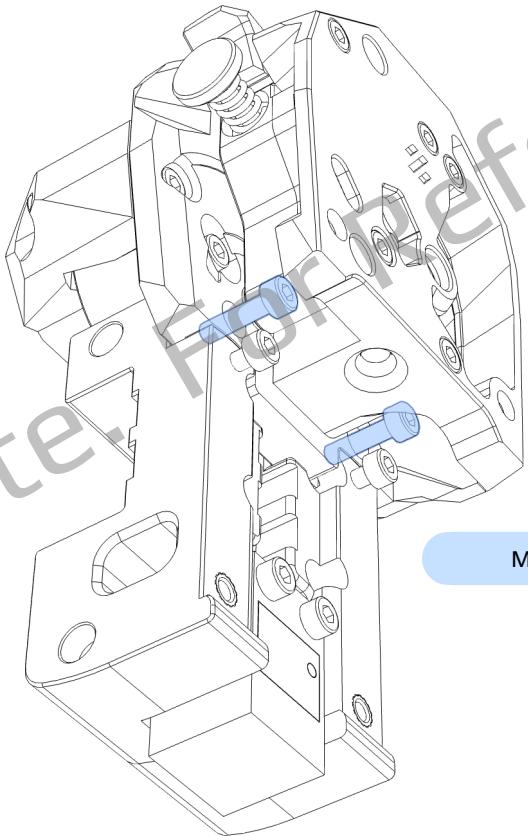
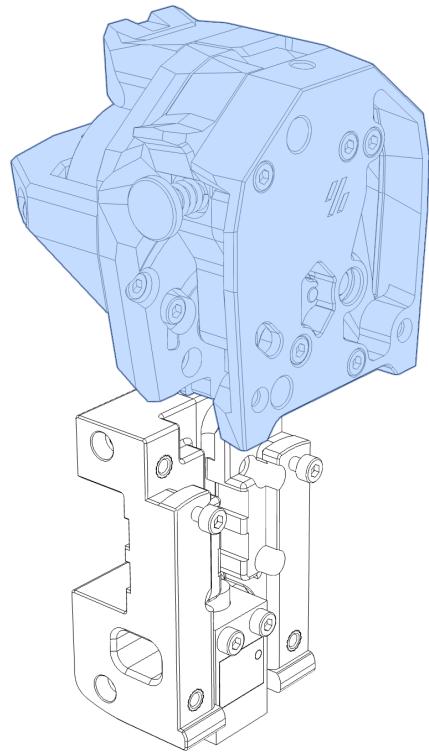
PTFE Tube (4mm OD 2mm ID)

### NOTE

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

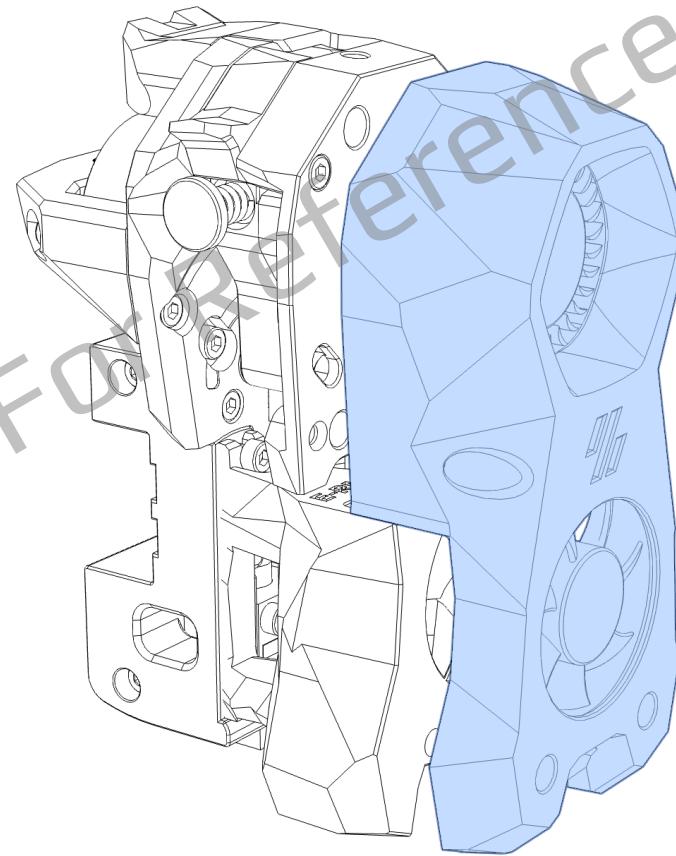
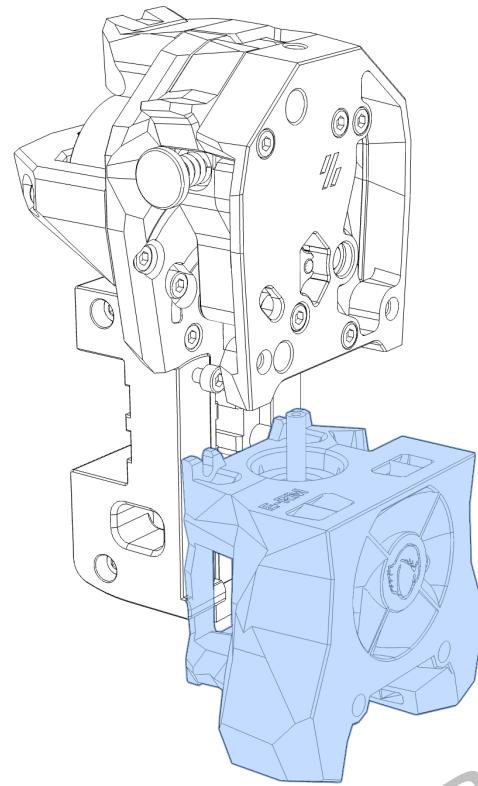
PTFE tube length varies and is dependent on the hot end used.



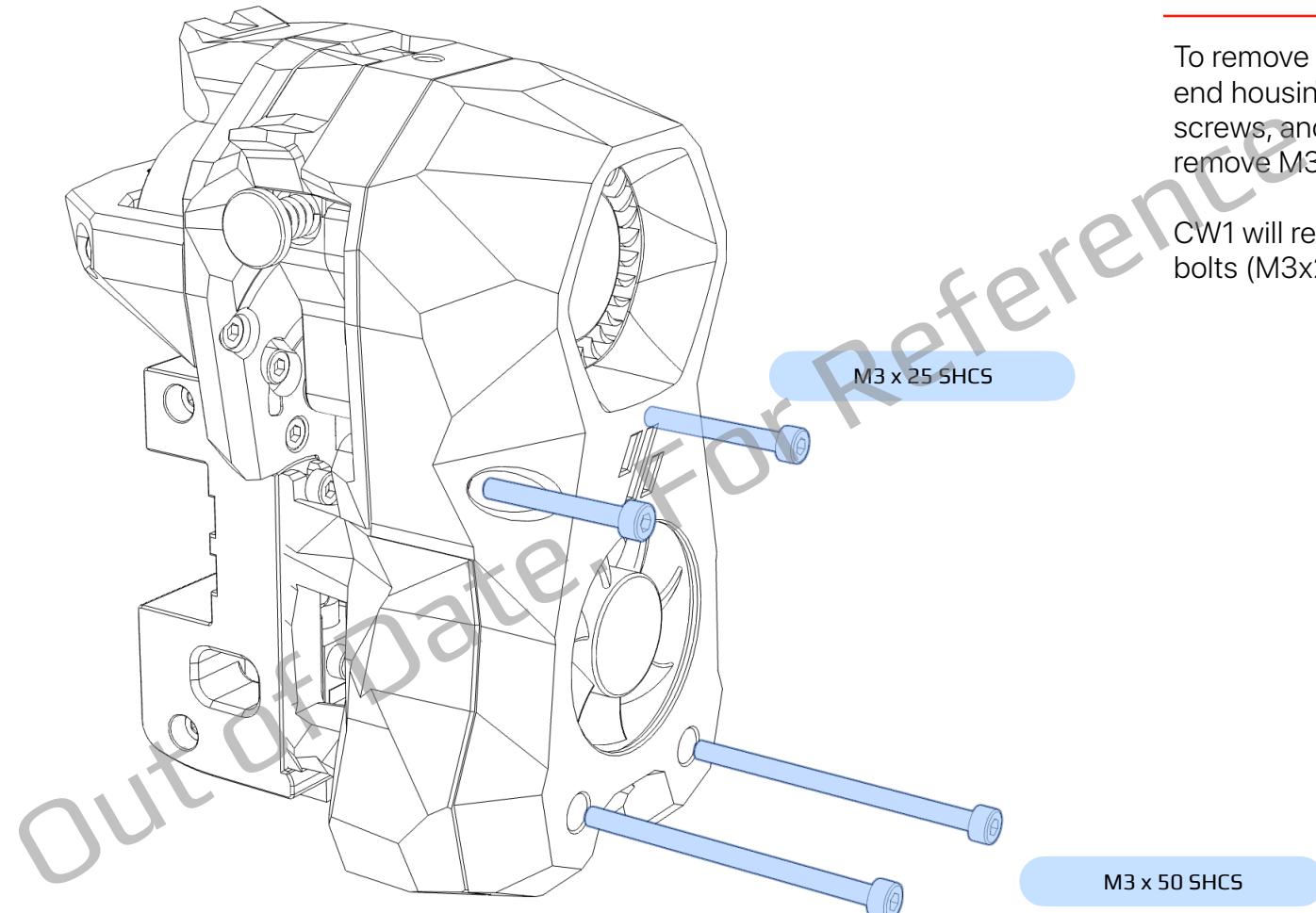
**NOTE**

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

Out of Date. For preference only



Out of Date. Fox Reference Only



### NOTE

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

CW1 will require shorter upper bolts (M3x20).

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!

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