

ORBITER CLOCKWORK ASSEMBLY MANUAL

MANUAL VERSION 1.0

HARDWARE



SOCKET HEAD CAP SCREW (SHCS)

Metric fastener with a cylindrical headand hex drive.

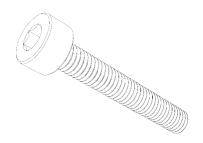
M3x8 Quantity 1



SOCKET HEAD CAP SCREW (SHCS)

Metric fastener with a cylindrical head and hex drive.

M3x16 Quantity 1



SOCKET HEAD CAP SCREW (SHCS)

Metric fastener with a cylindrical head and hex drive.

M3x20 Quantity 2



TAPERED HEAT-SET INSERTS FOR PLASTIC

The tapered shape makes it easier to guide these inserts into a hole during installation. Use a drill bit to create a straight hole, then taper the top half. Heat inserts with a soldering tip so that they melt the plastic when installed. As the plastic cools, it solidifies around the knurls and ridges on the insert for excellent resistance to both torque and pull-out.

M3 Brass Heat-Set Insert Quantity: 9

HARDWARE CONT.



PTFE Tube

The PTFE tube is used between the Orbiter extruder and the Toolhead. Specific hot end lengths are listed below:

Phaetus Dragon Hotend PTFE Tube Length 45mm

E3D V6 Hot end PTFE Tube Length ??mm (Not Tested Yet)

Slice Engineering Mosquito Hot end PTFE Tube Length ??mm (Not Tested Yet)

PRINTED PARTS

Clockwork Adaptor Front



Chain Anchor



Filament Release Lever



Clockwork Adaptor Back



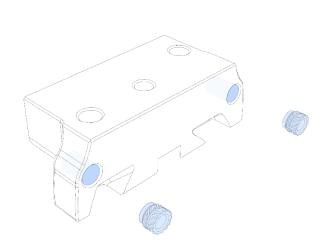
Connector Cover

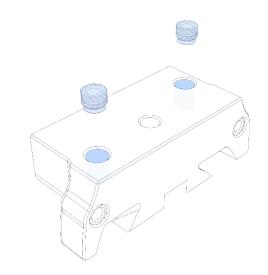


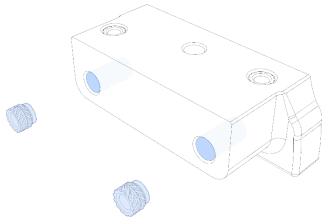
ASSEMBLY GUIDE

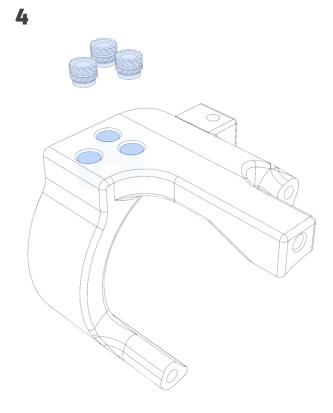
Assembly A. Heat-Set Inserts

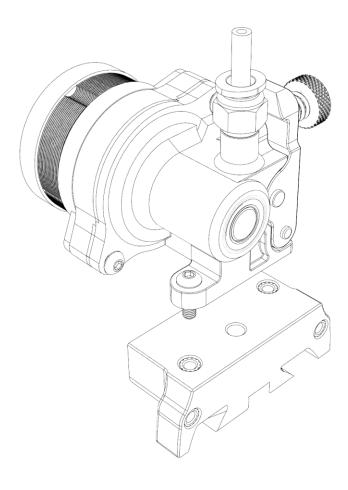
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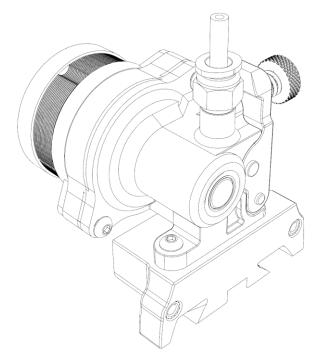




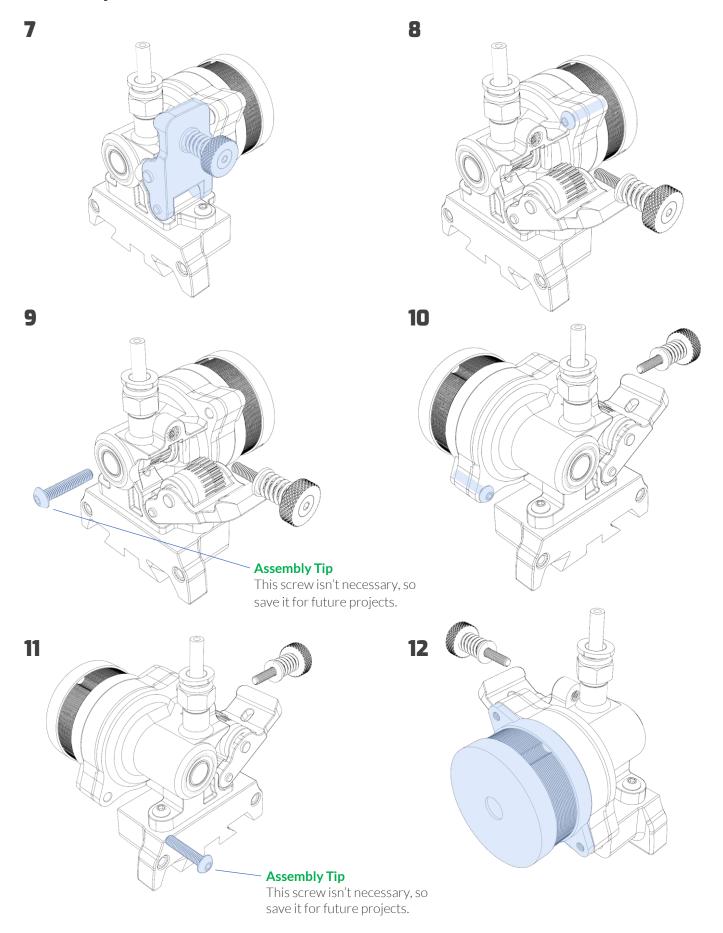


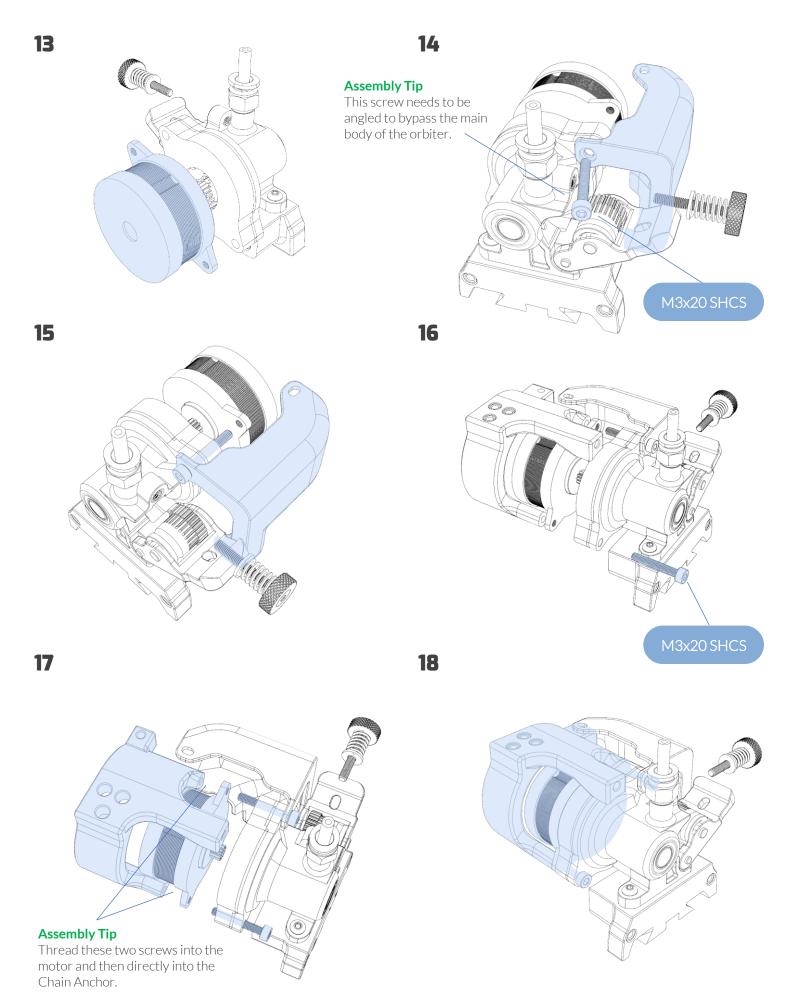


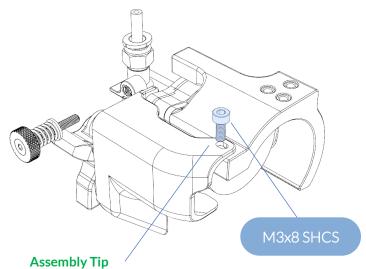




Assembly C. Connecter Cover and Chain Anchor

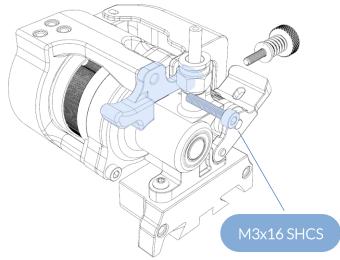




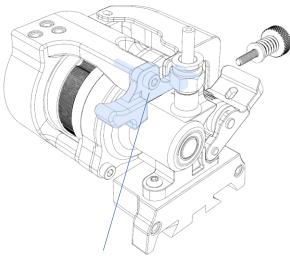


Assembly D. Filament Quick Release Lever

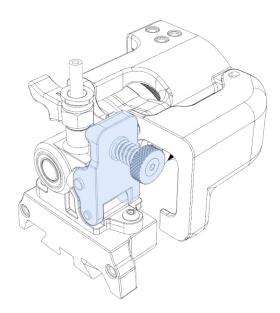
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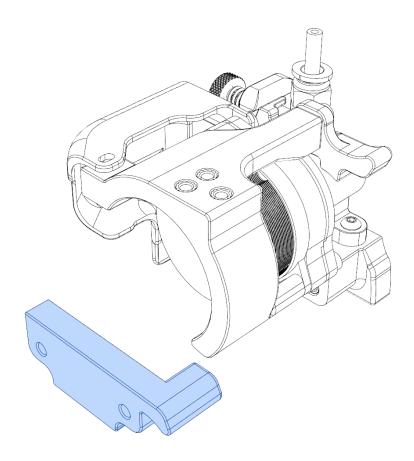


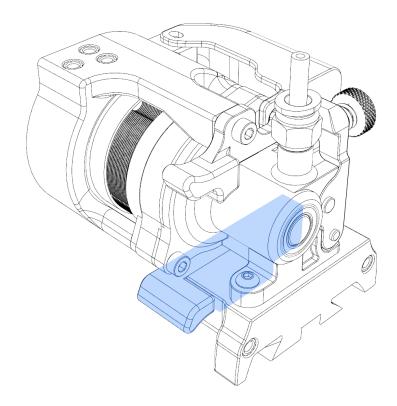
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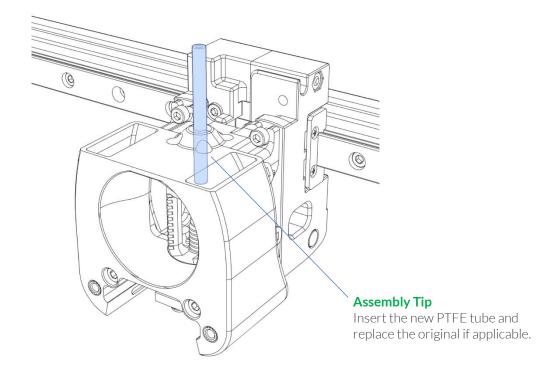


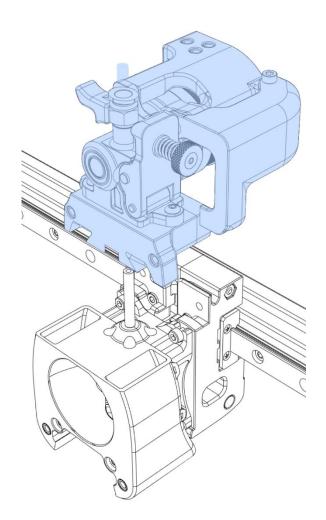
Assembly Tip
Thread this screw into the slot on the Chain Anchor until its tight then loosen by a half-turn.

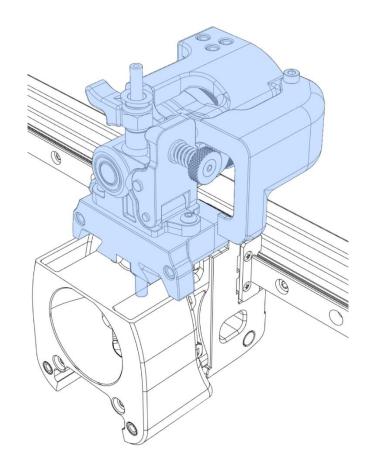


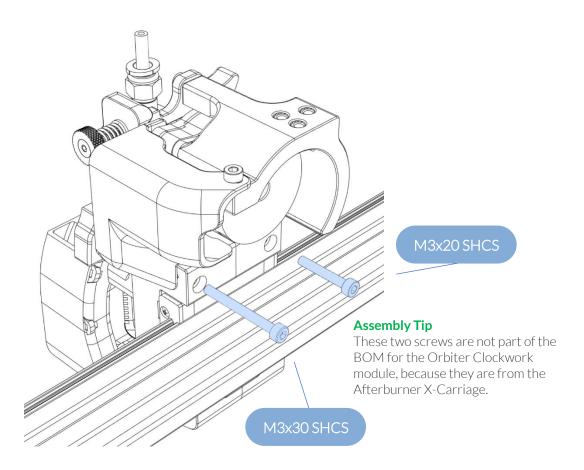


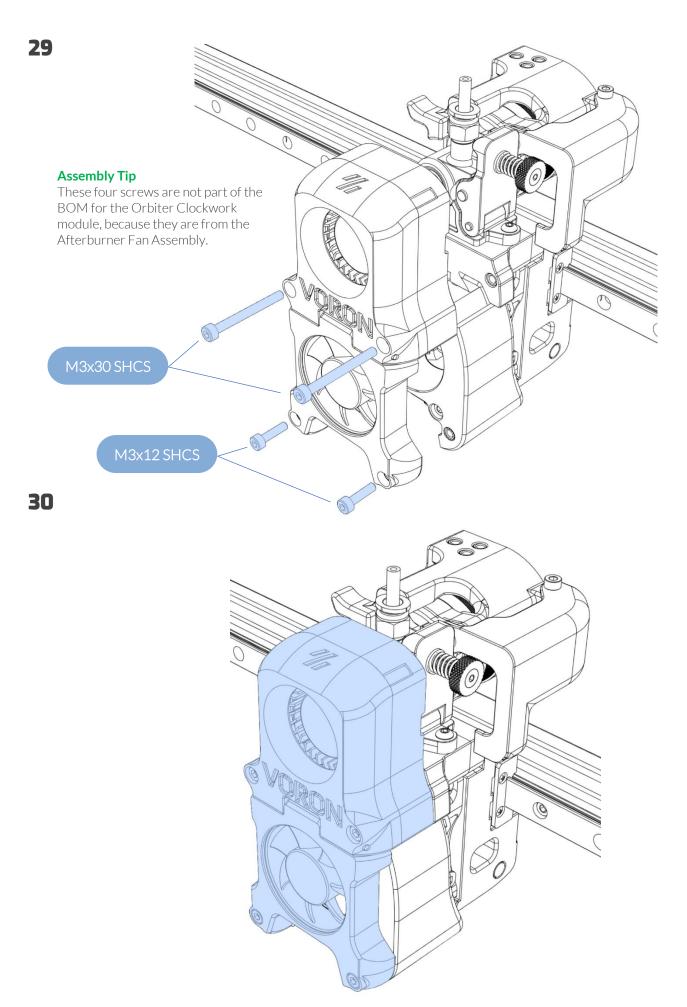












Assembly Complete



Next Steps

NEXT STEP: SETUP & CALIBRATION

This manual was designed to be a simple reference manual for the assembly process. For further details on the setup of the electronics and other initial steps of your new printer please visit the VORON documentation available on github and docs.vorondesign.com.

HOW TO GET HELP

If you need assistance with your build, we're here to help. Head on over to the VORON Discord group and post your questions. This is the primary medium to help VORON Users and we have a great community that can help you out if you get stuck.

ADDITIONAL RESOURCES

GitHub

https://github.com/VoronDesign/ https://github.com/spacelab2021/Orbiter-Clockwork-Module

Get the Latest Version of this document:

https://github.com/spacelab2021/Orbiter-Clockwork-Module/blob/main/docs/Orbiter Cockwork Manual.pdf



https://discord.gg/voron