





ORBITER CLOCKWORK ASSEMBLY MANUAL

We build space shuttles with gardening tools so anyone can have a space shuttle of their own.

HARDWARE



SOCKET HEAD CAP SCREW (SHCS)

Metric fastener with a cylindrical headand hex drive.

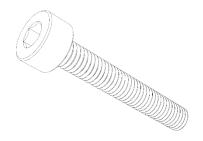
M3x8 Quantity 1



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:

Pheatus Dragon Hot end 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



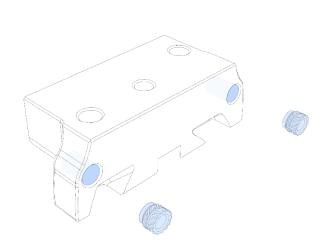
Connector Cover

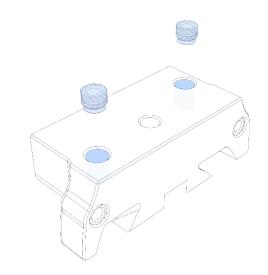


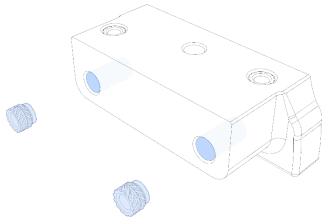
ASSEMBLY GUIDE

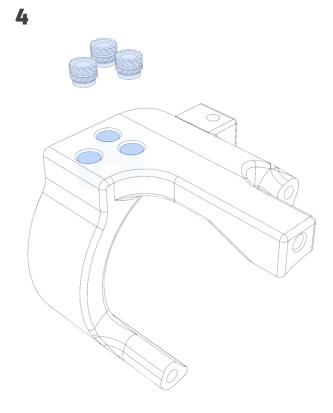
Assembly A. Heat-Set Inserts

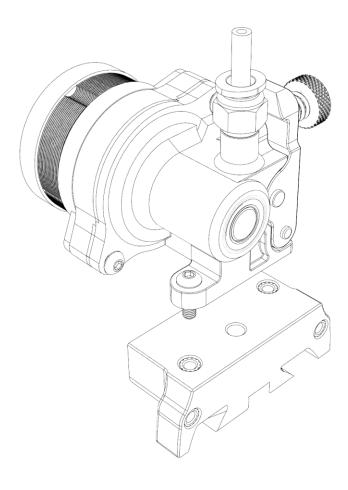
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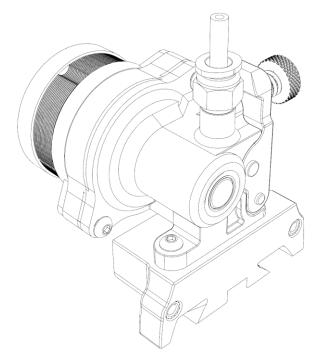




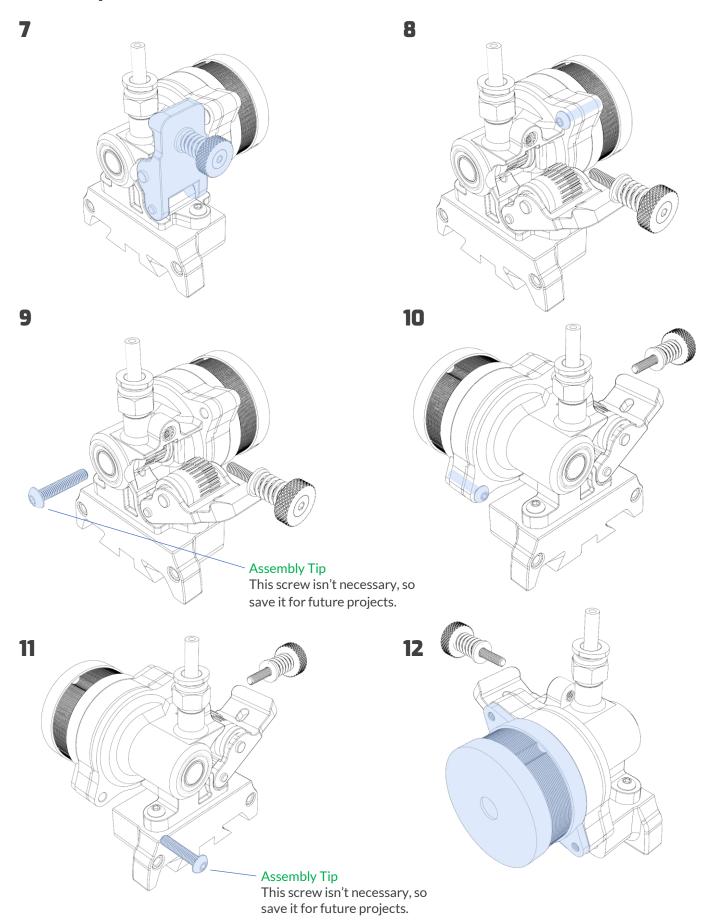


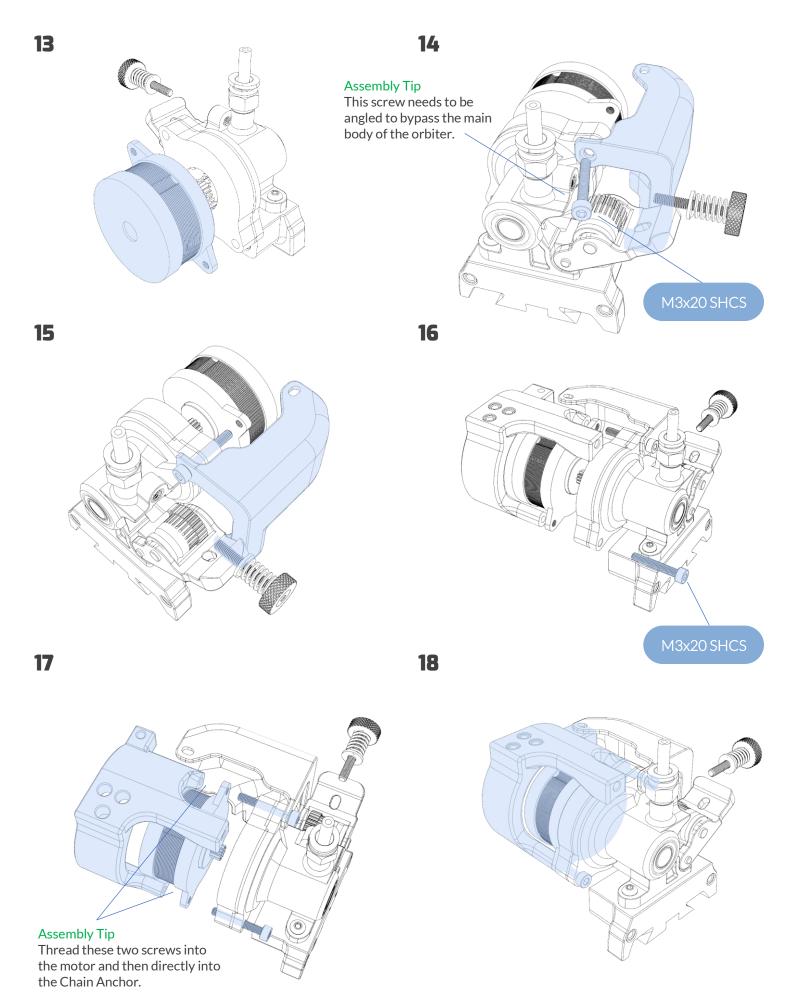


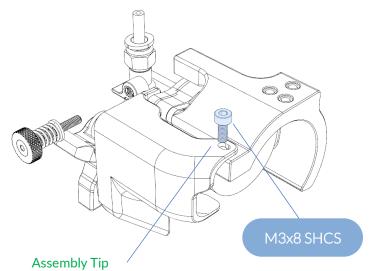




Assembly C. Connecter Cover and Chain Anchor



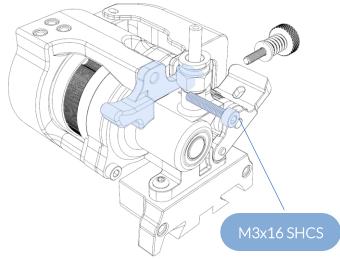




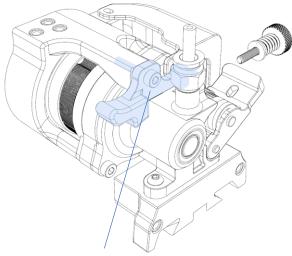
Assembly Tip
Thread this screw directly into the Chain Anchor.

Assembly D. Filament Quick Release Lever

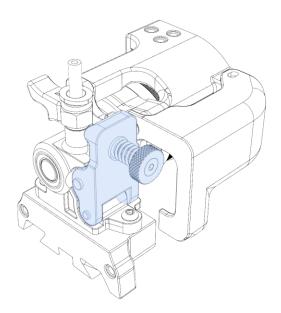
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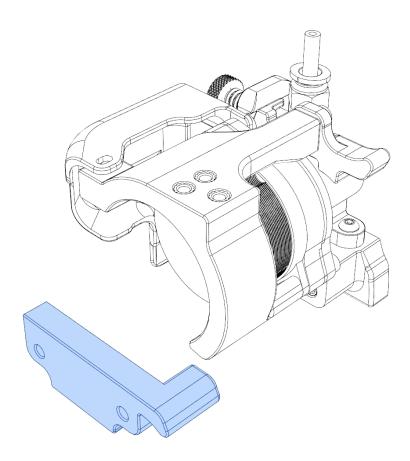


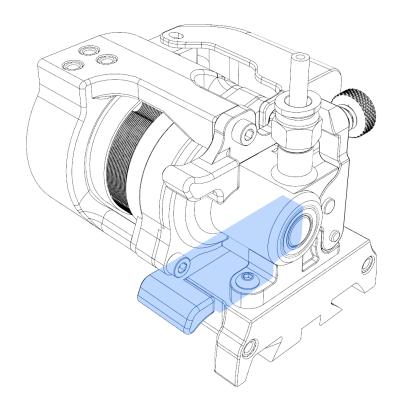
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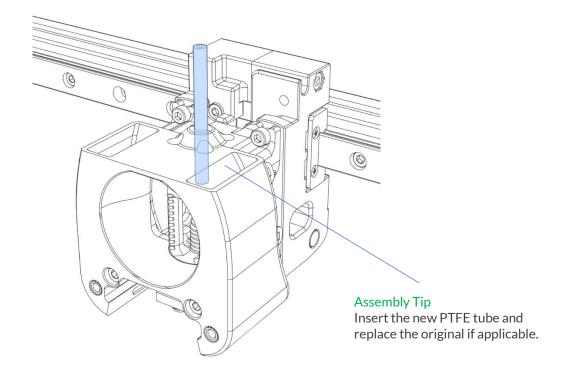


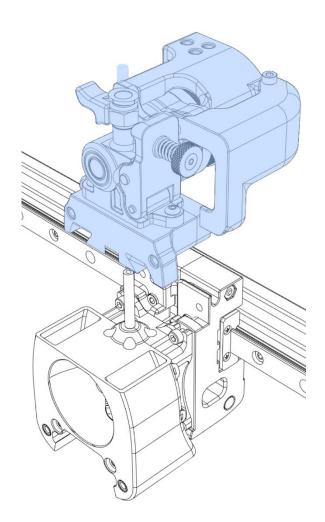
Assembly Tip
Thread this screw into the slot on the Chain Anchor until its tight then loosen by a half-turn.

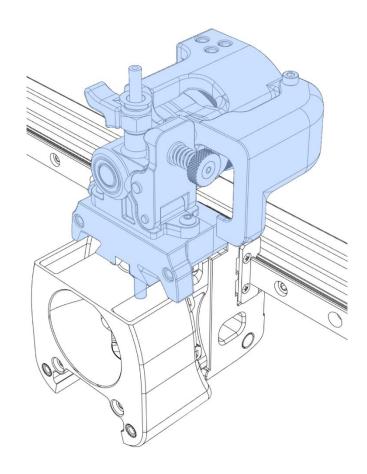


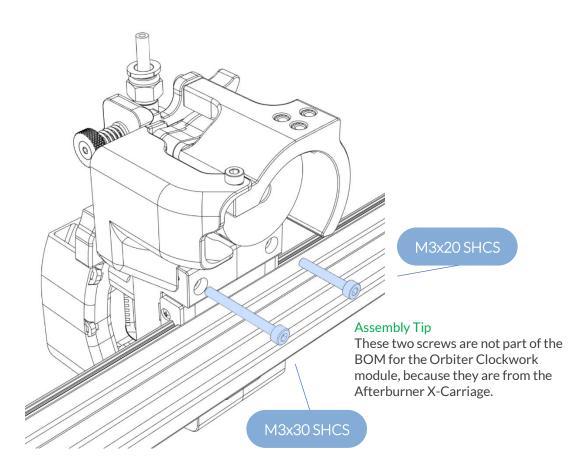


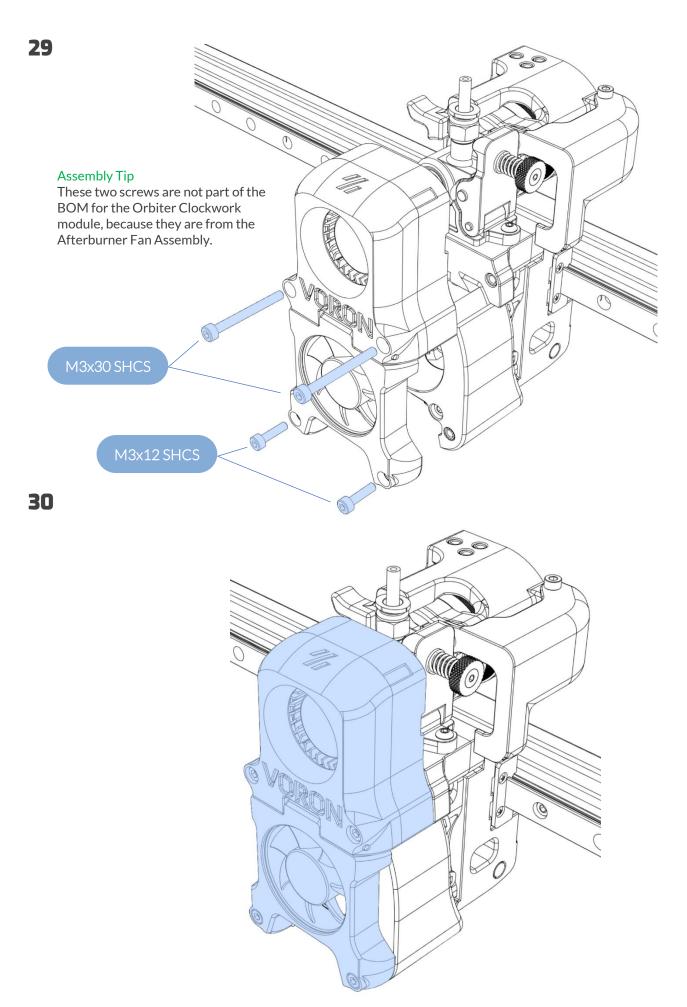












Assembly Complete



Get the Latest Version of this document:

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

Version: OC-1001