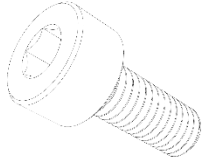




ORBITER CLOCKWORK ASSEMBLY MANUAL

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

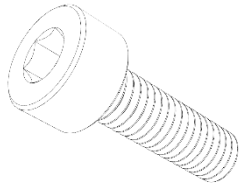
HARDWARE



SOCKET HEAD CAP SCREW (SHCS)

Metric fastener with a cylindrical head and hex drive.

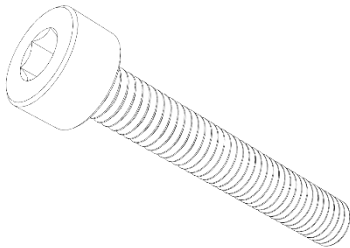
M3x8 Quantity 1



SOCKET HEAD CAP SCREW (SHCS)

Metric fastener with a cylindrical head and hex drive.

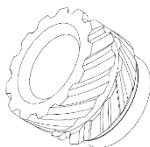
M3x10 Quantity 1



SOCKET HEAD CAP SCREW (SHCS)

Metric fastener with a cylindrical head and hex drive.

M3x20 Quantity 2



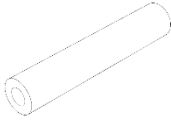
TAPERED HEAT-SET INSERTS FOR PLASTIC

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

PTFE Tube

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



Pheatius 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.stl



Clockwork_Adaptor_Back.stl

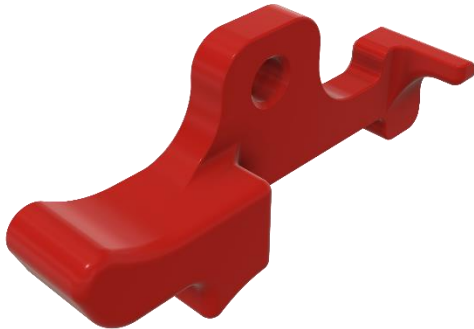


Chain_Anchor_SwitchWire.stl

Chain_Anchor_Voron_2.4.stl



[a]_Connector_Cover.stl

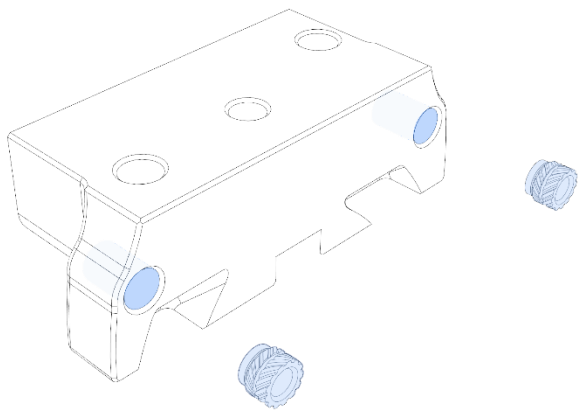


[a]_Filament_release_lever.stl

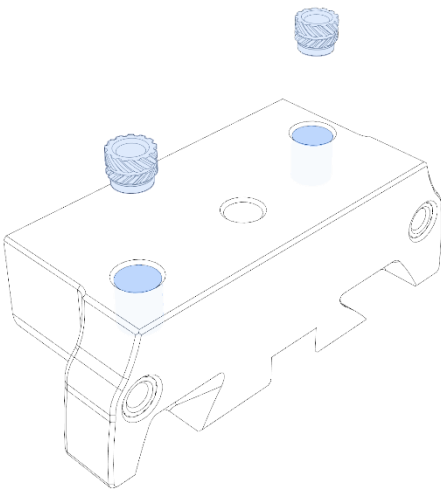
ASSEMBLY GUIDE

Assembly A. Heat-Set Inserts

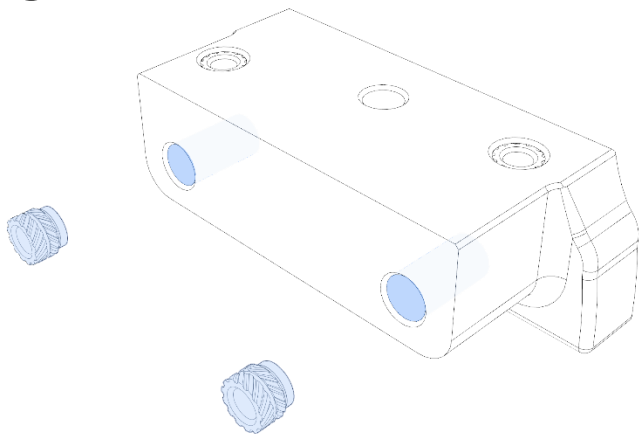
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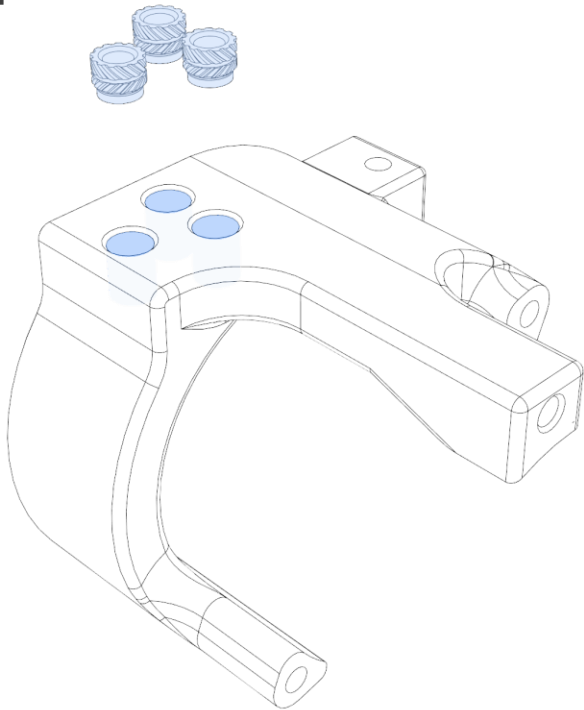
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3

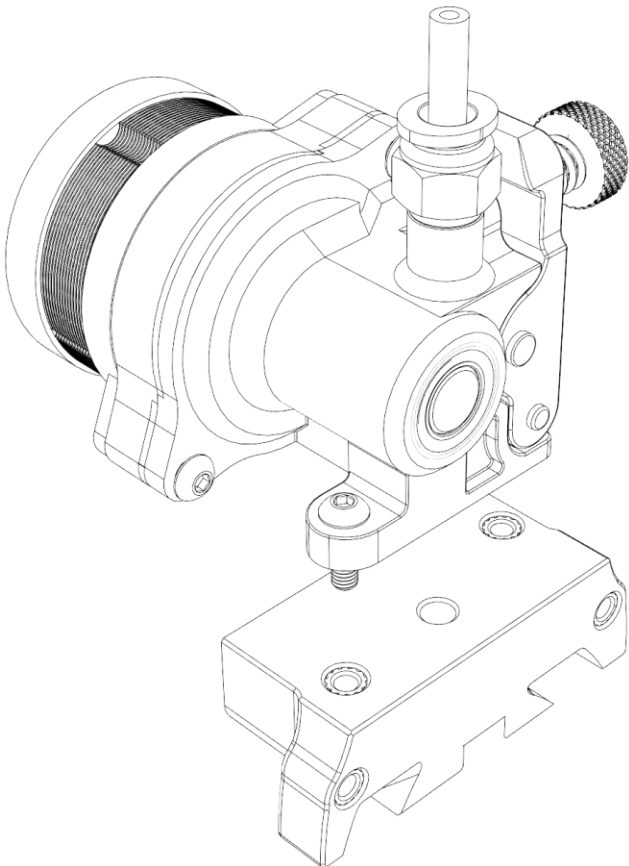


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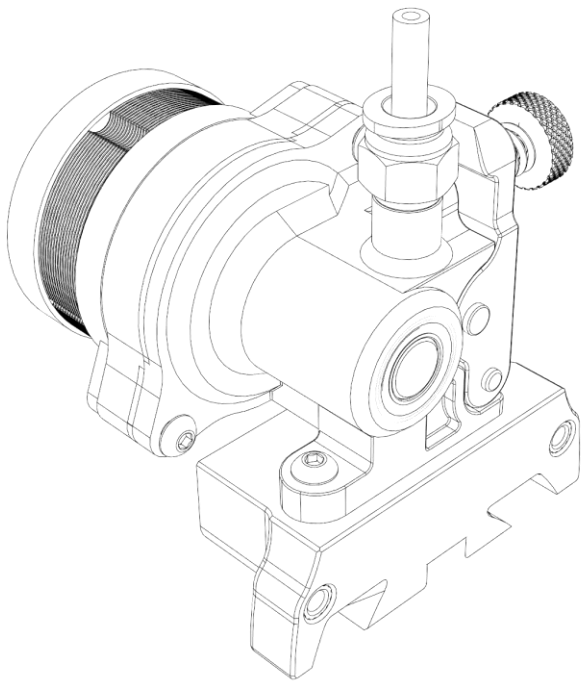


Assembly B. Orbiter Clockwork Adapter

5

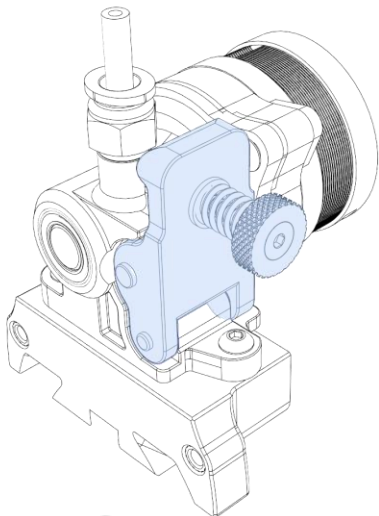


6

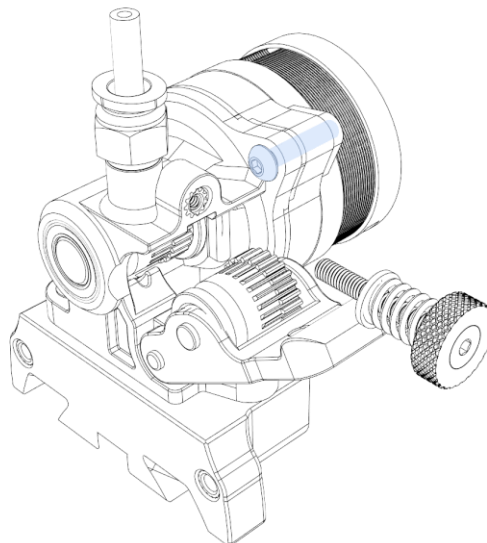


Assembly C. Connector Cover and Chain Anchor

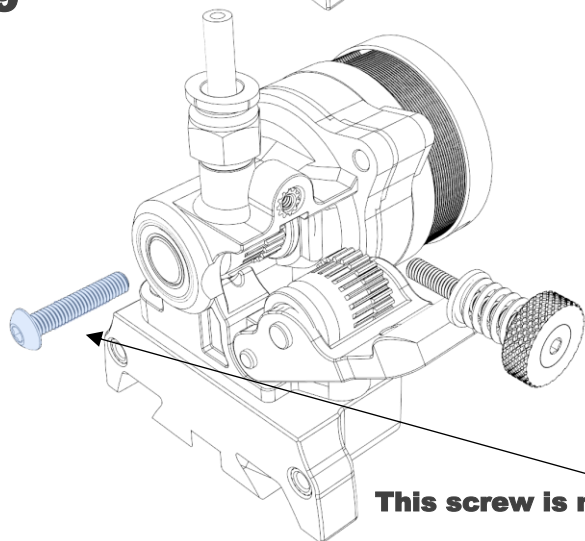
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8

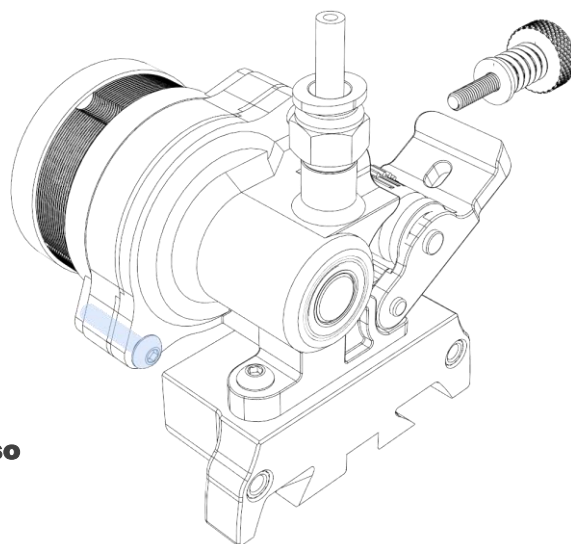


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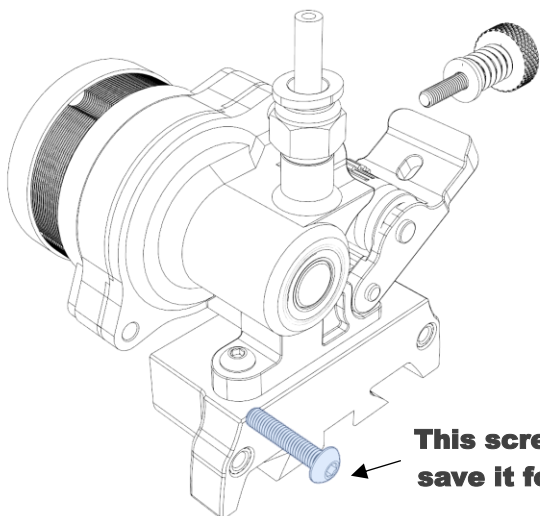


**This screw is not needed, so
save it for future projects.**

10

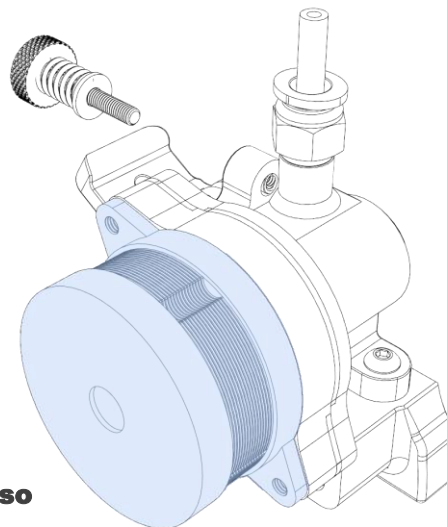


11

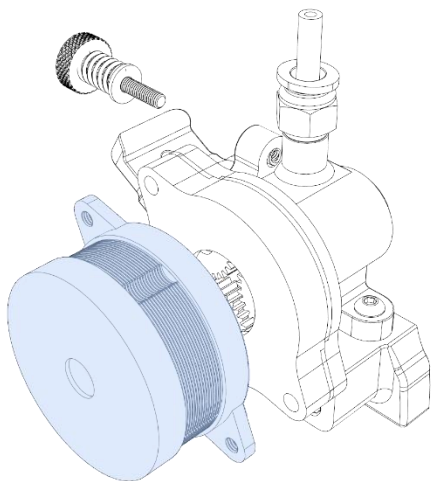


**This screw is not needed, so
save it for future projects.**

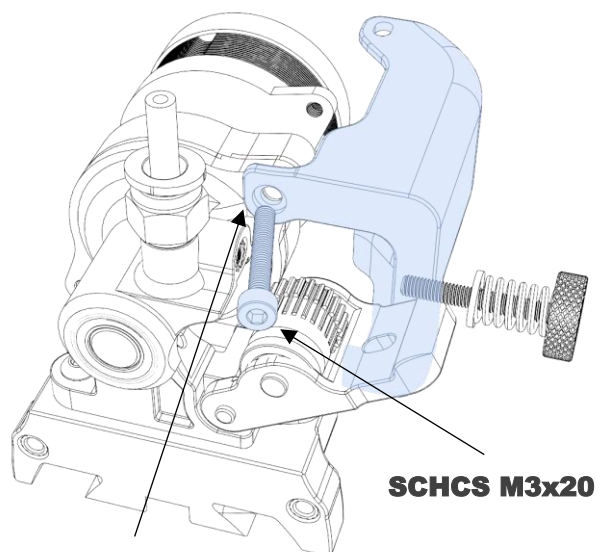
12



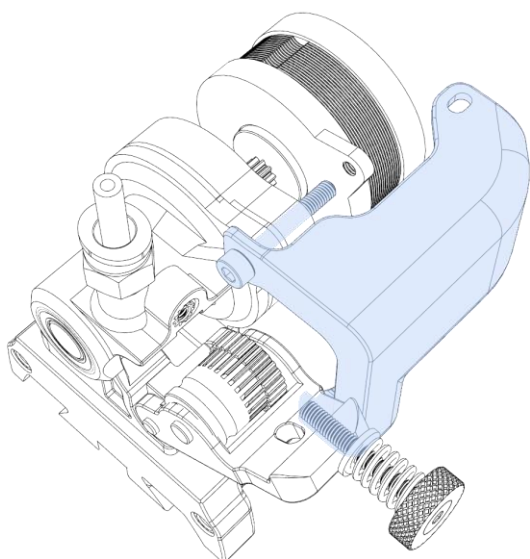
13



14

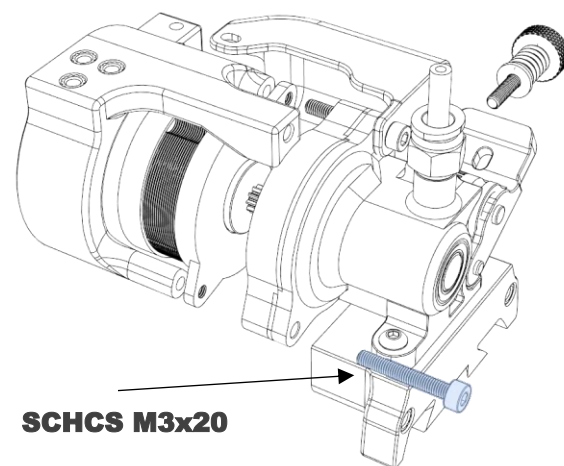


15

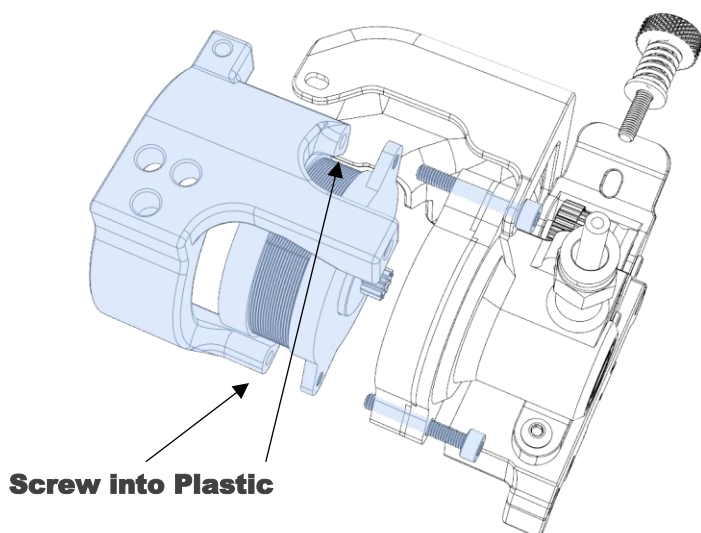


16

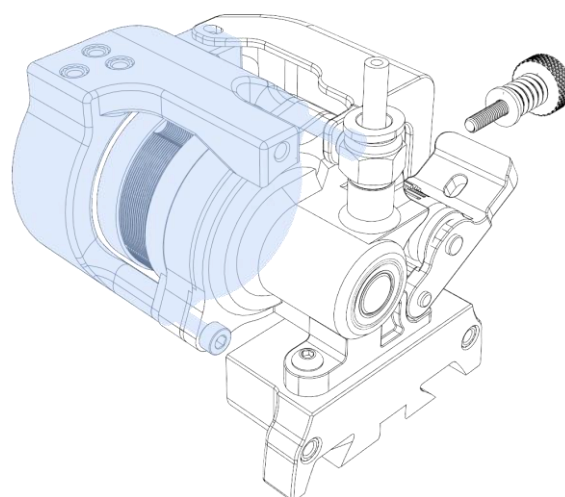
Screw in at an angle



17

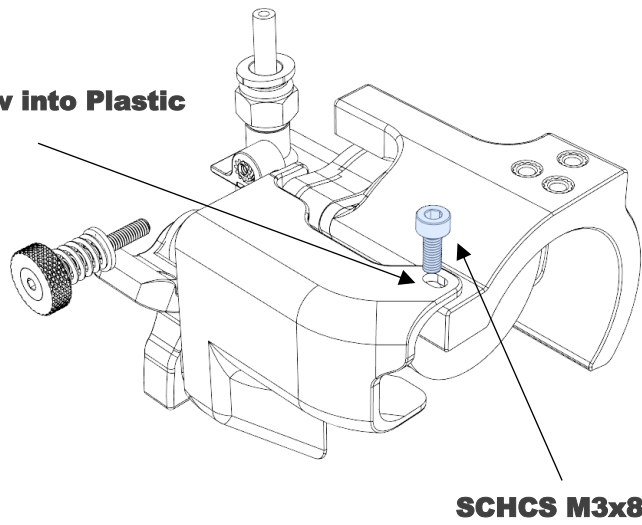


18



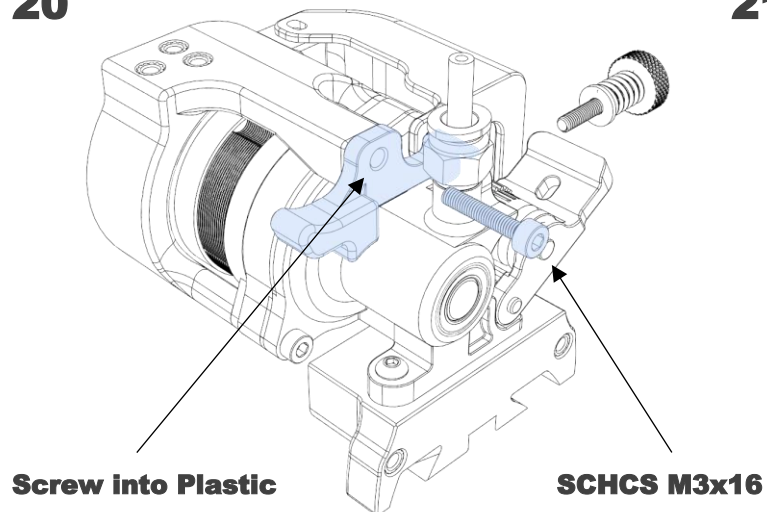
19

Screw into Plastic



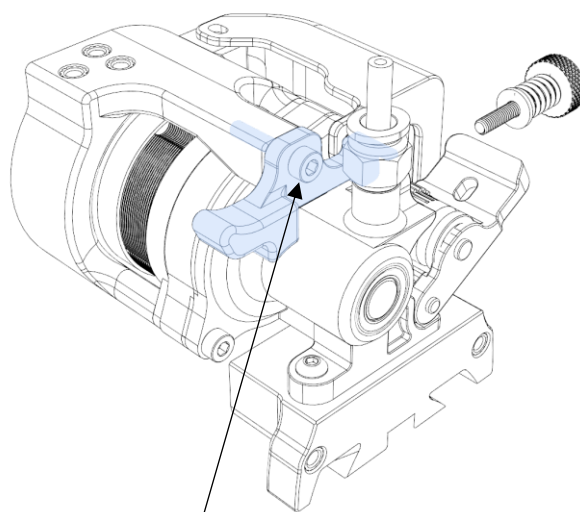
Assembly D. Filament Quick Release Lever

20

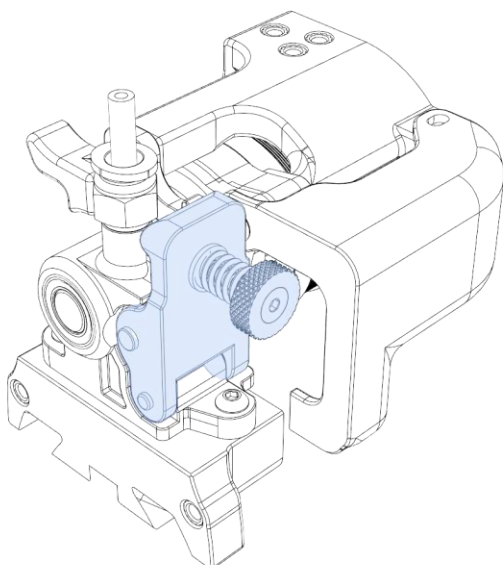


** Depending on use this may need to be replaced with a Heat-Set Insert in future iterations.*

21

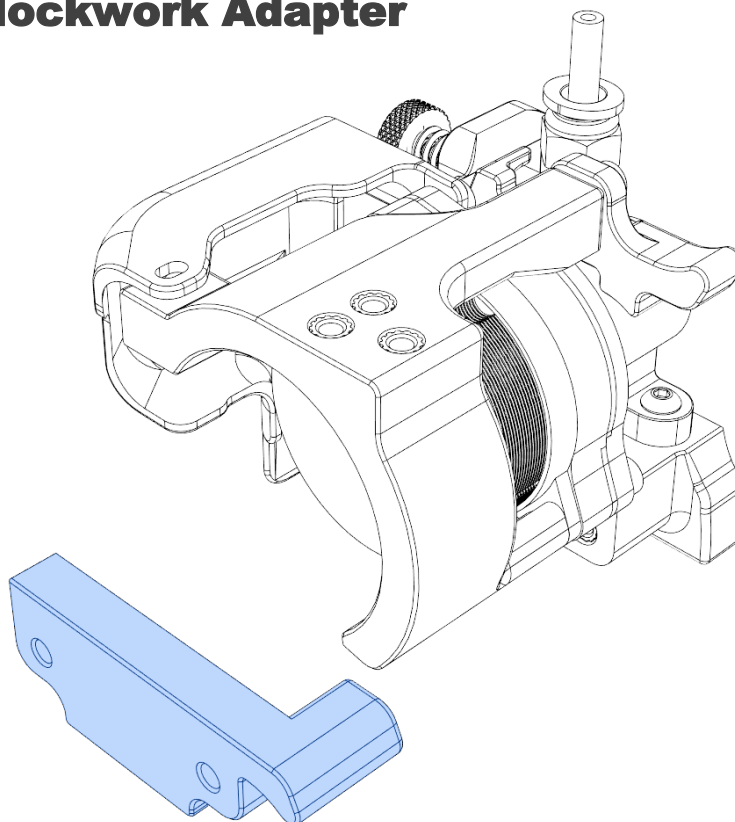


22



Assembly E. Clockwork Adapter

23



24

