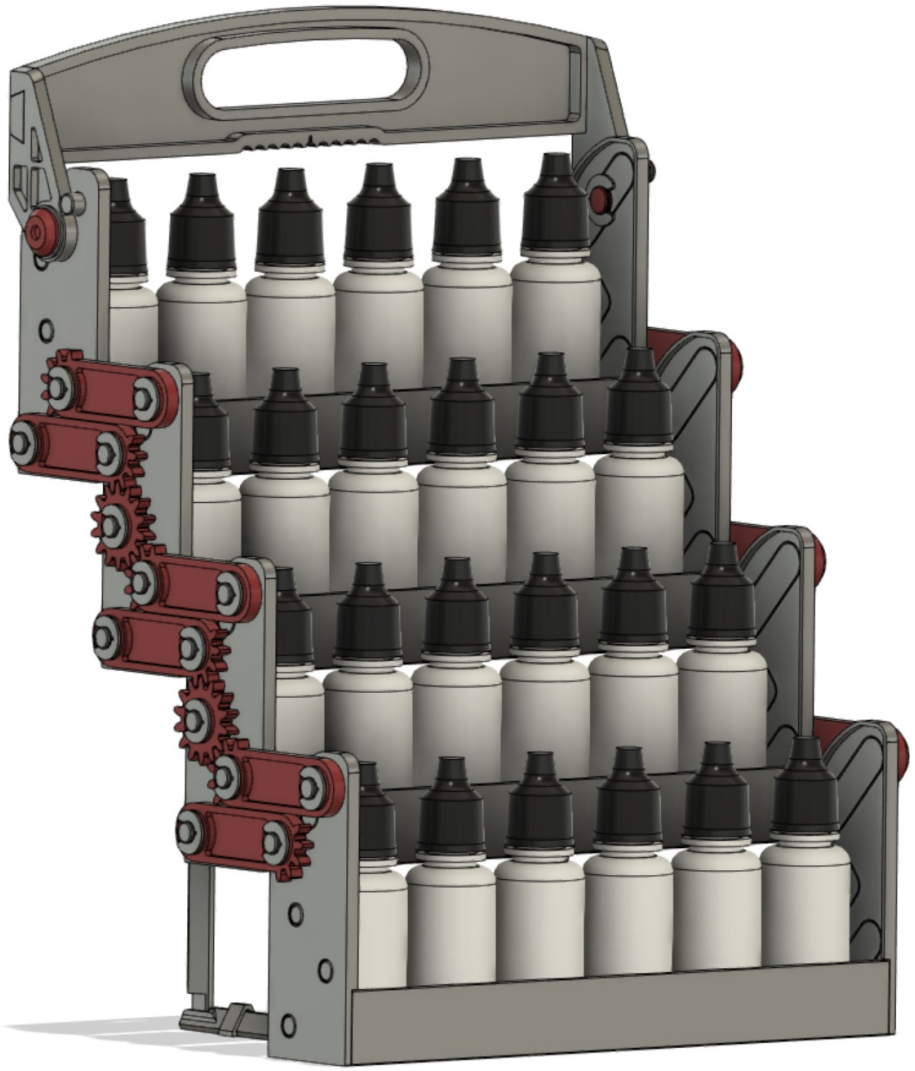
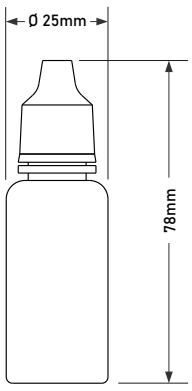
Scissor Paint Rack

Assembly Instructions





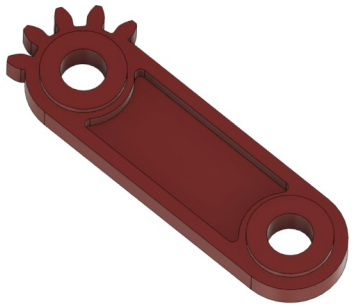
For Vallejo-style 17ml bottles

fhuable

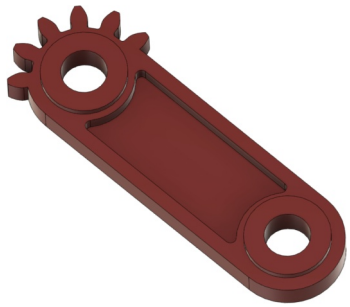
Parts list

x4 Tray

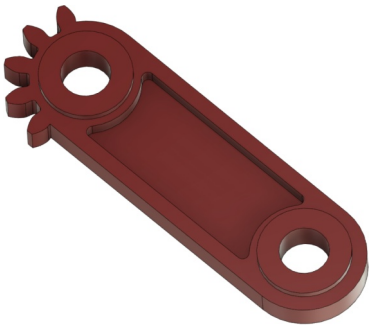
x3 Arm LB



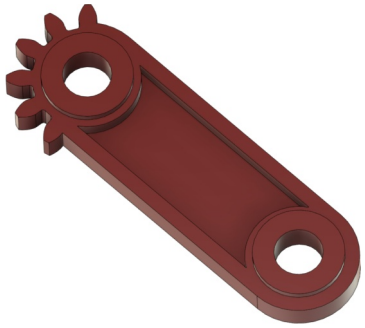
x3 Arm LF



x3 Arm RB



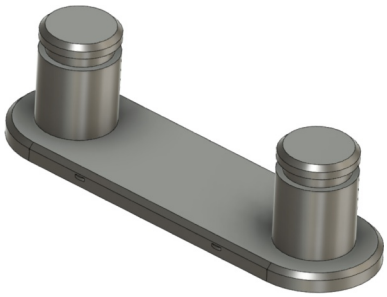
x3 Arm RF



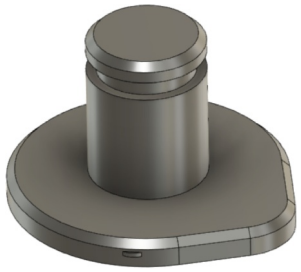
x4 Center Gear

x6 Hinge A

x6 Hinge B

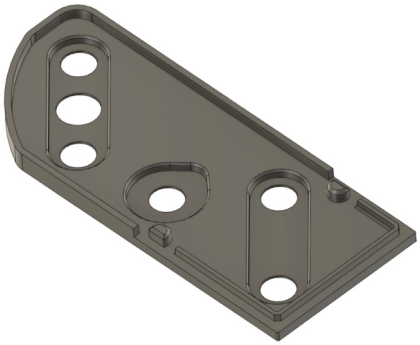


x4 Hinge C



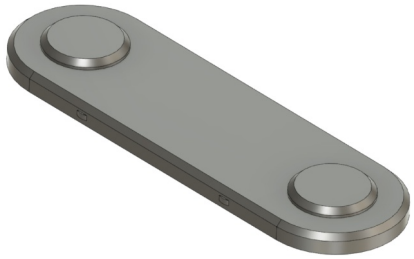
x4 Side L

x4 Side R

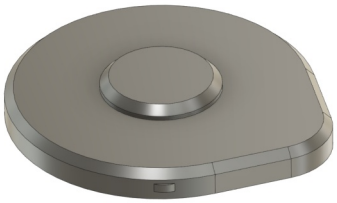


x2 Stand Leg

x2 Stub A



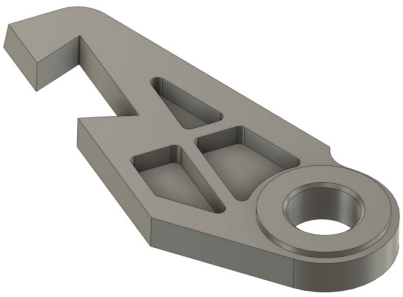
x4 Stub B



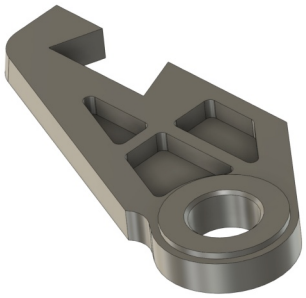
x2 Stub C

x1 Handle

x1 Handle Arm L



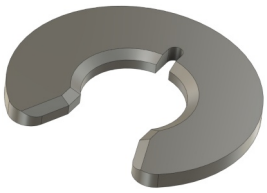
x1 Handle Arm R



x2 Handle Bolt

x2 Handle Circlip

x28 Circlip



x1 Stand Brace

Print settings

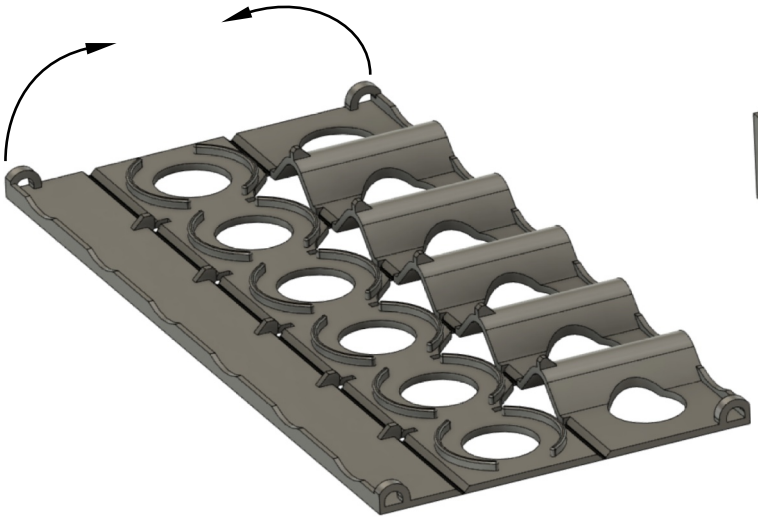
Layer height: 0.2mm or better
1st layer height: 0.2mm (works great for folding live hinges)
Everything can be printed without supports as long as you can achieve a good adhesion to the build plate.
HingeA/B/C should be printed with at least 3 lines of wall thickness for added robustness.

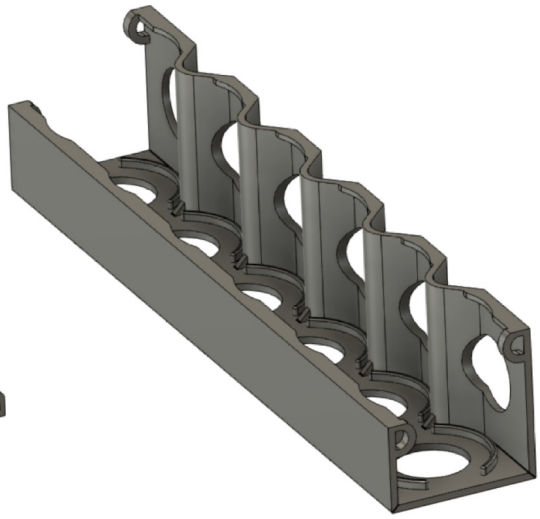
The stand utilizes a printed-in-place hinge with 0.20mm clearances. If you can't successfully print this, I included an alternate version that uses simple holes instead. You can use a small nail or wire to connect the parts.

Assembly

Step 1 (x4)

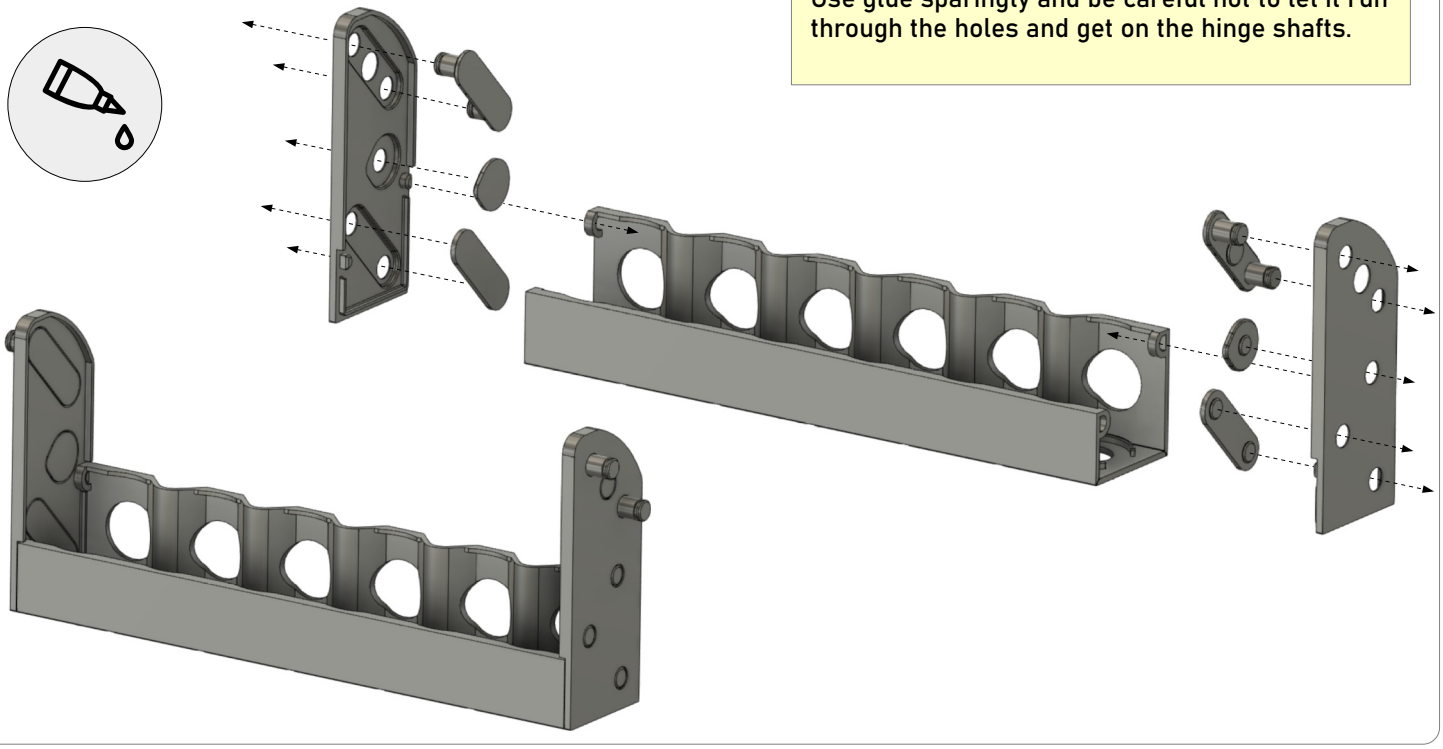
Fold the trays along the hinges until the notches click into the corresponding slots.
If your notches came out a bit bulged because of their very small cross section don't apply too much force to fit them. Instead you can squeeze them slightly with pliers or sand away the additional material. The friction notches help the tray to keep it's shape during assembly. It should be a nice friction fit but it is not essential.
Make sure the walls can bend all the way to be perpendicular to the base.





Step 2 – bottom tray

First glue the hinges and stubs into the sides, then glue the rest of the tray together.
Use glue sparingly and be careful not to let it run through the holes and get on the hinge shafts.



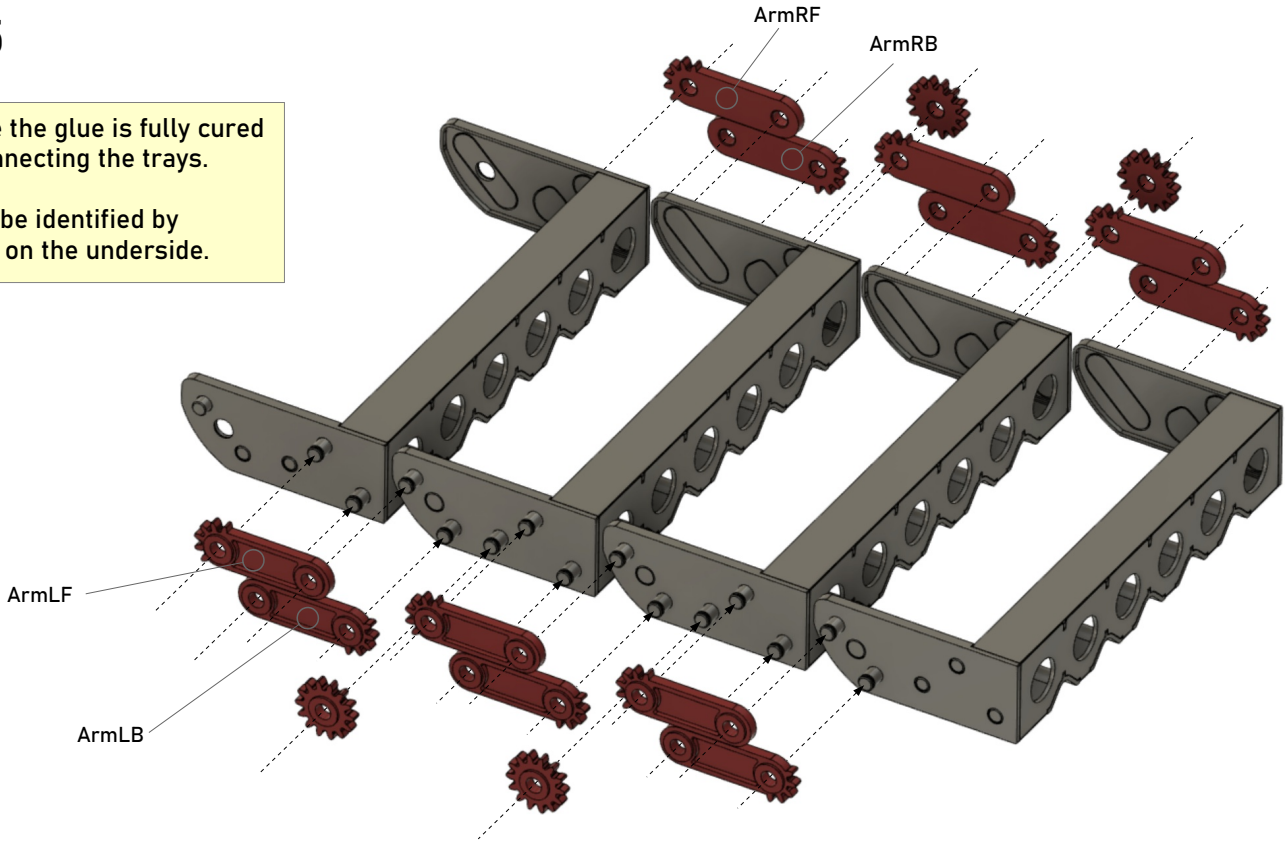
Step 3 – middle trays (x2)

Step 4 – top tray

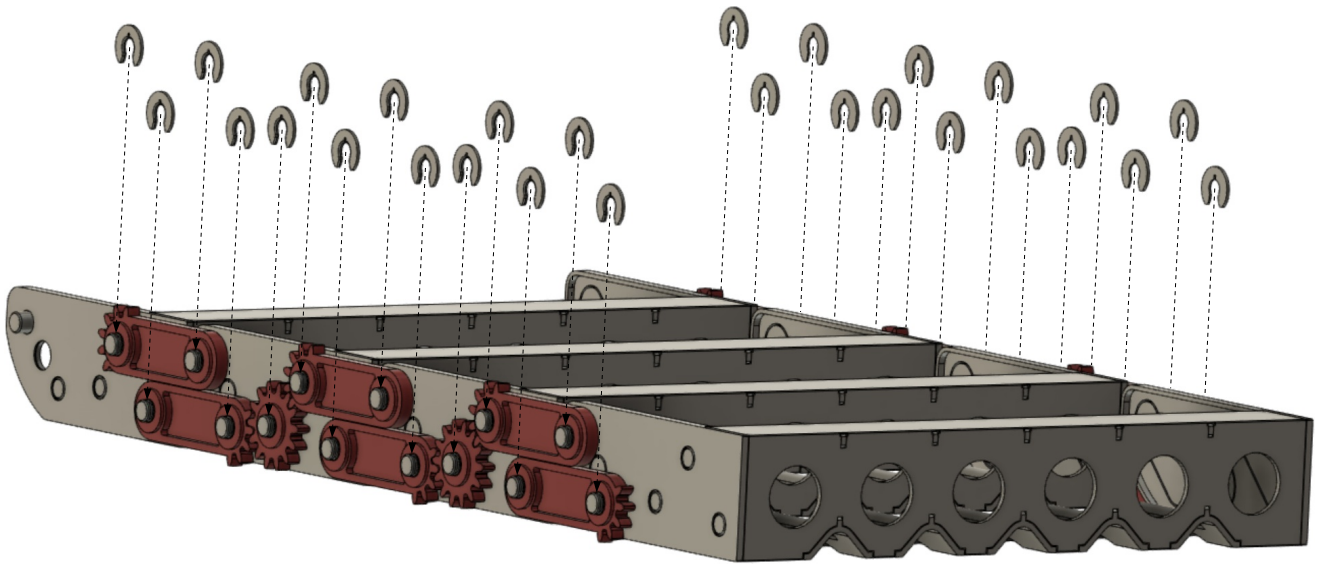
Step 5

Make sure the glue is fully cured before connecting the trays.

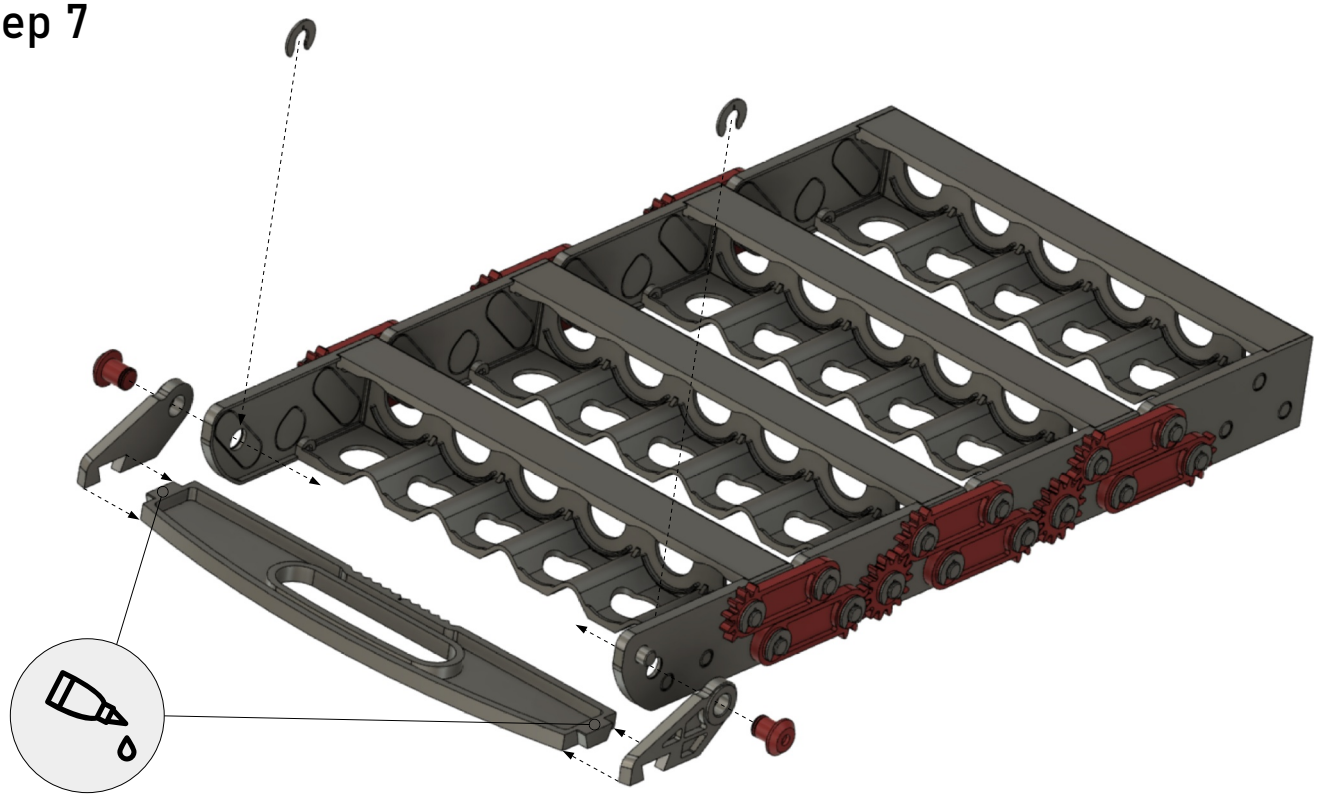
Arms can be identified by a marking on the underside.



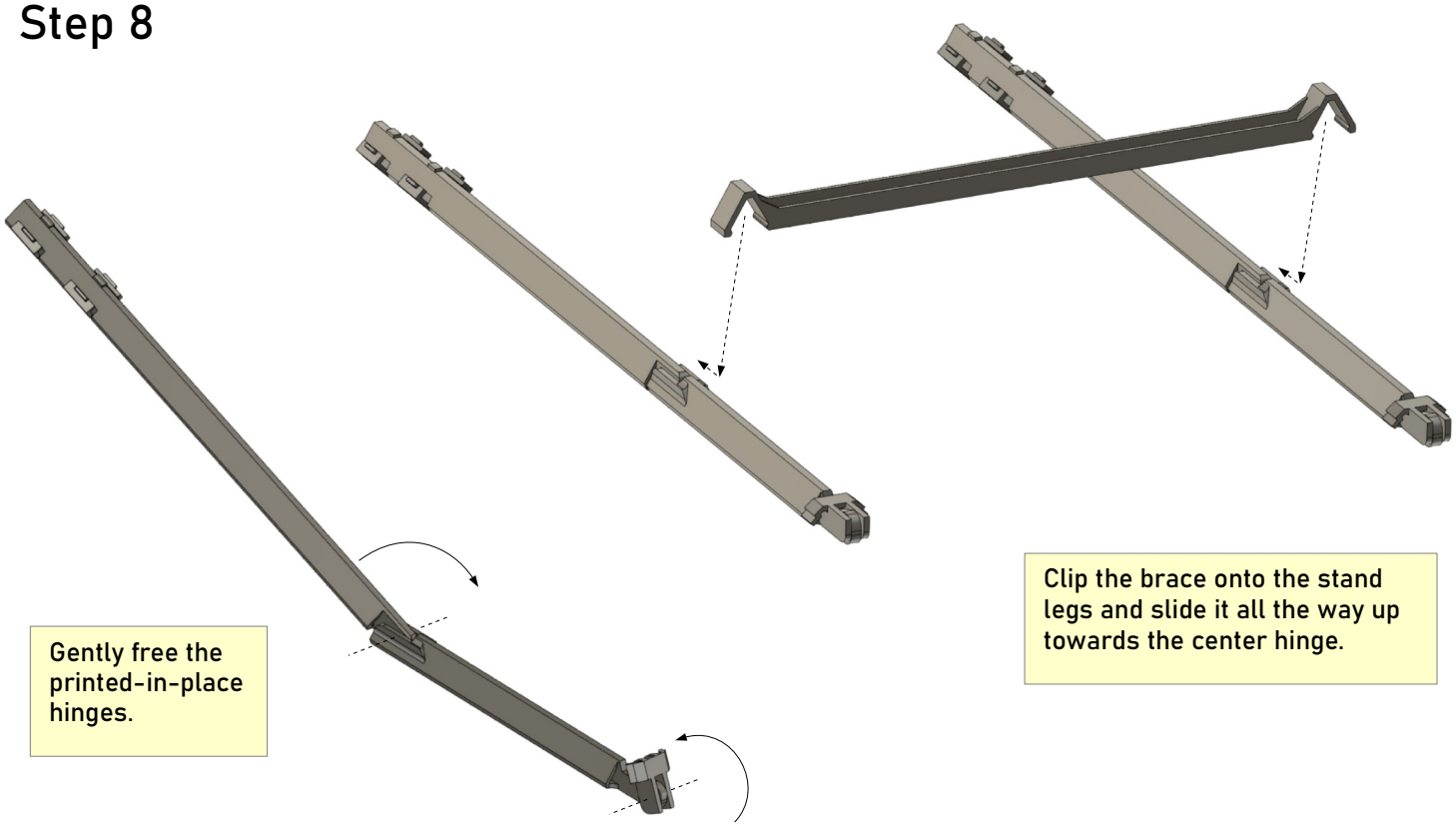
Step 6



Step 7



Step 8

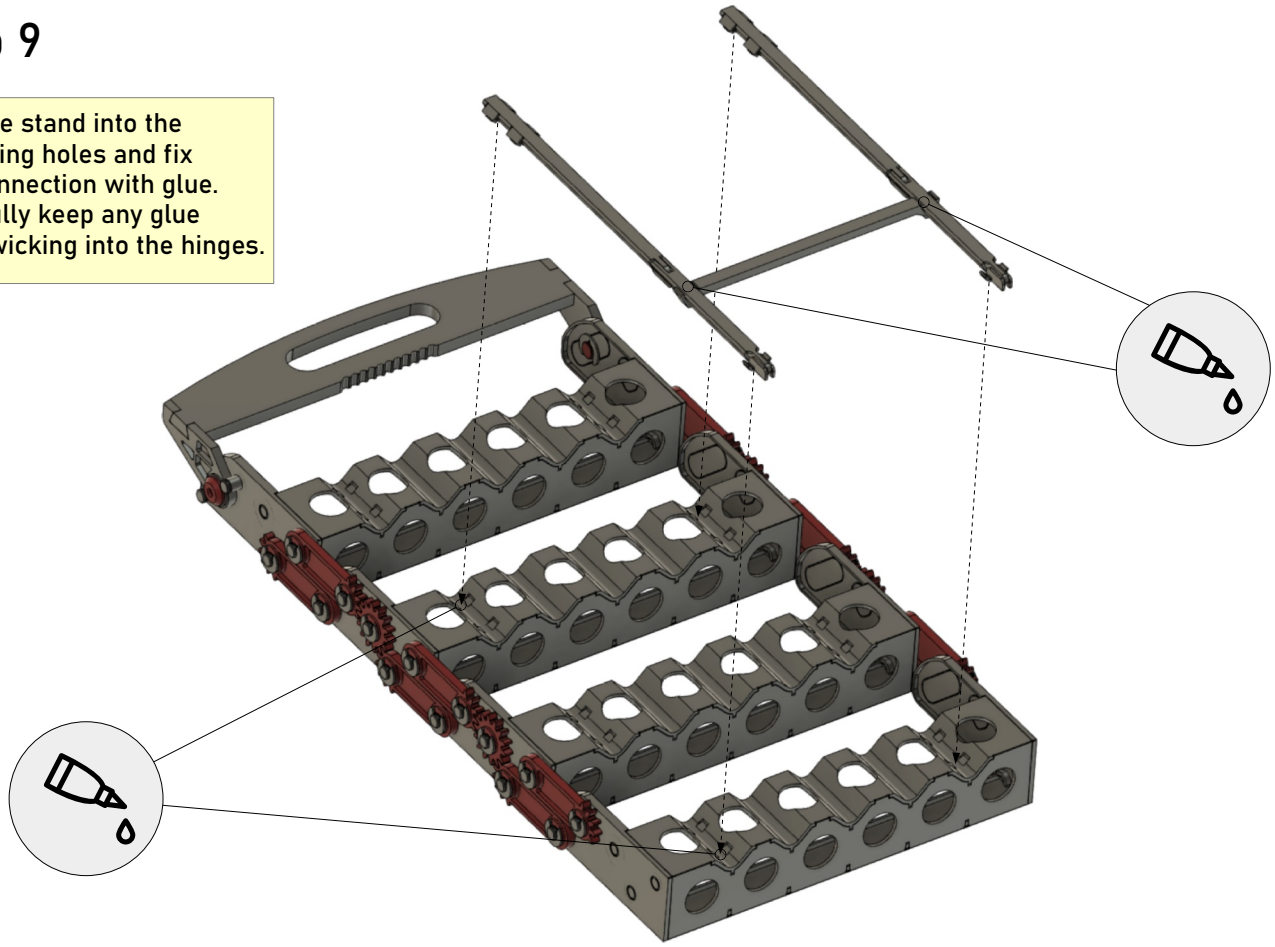


Gently free the printed-in-place hinges.

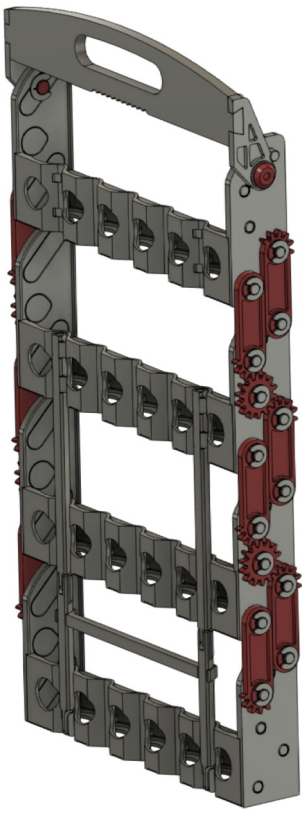
Clip the brace onto the stand legs and slide it all the way up towards the center hinge.

Step 9

Clip the stand into the mounting holes and fix the connection with glue. Carefully keep any glue from wicking into the hinges.



Step 10



I hope you enjoyed this build !