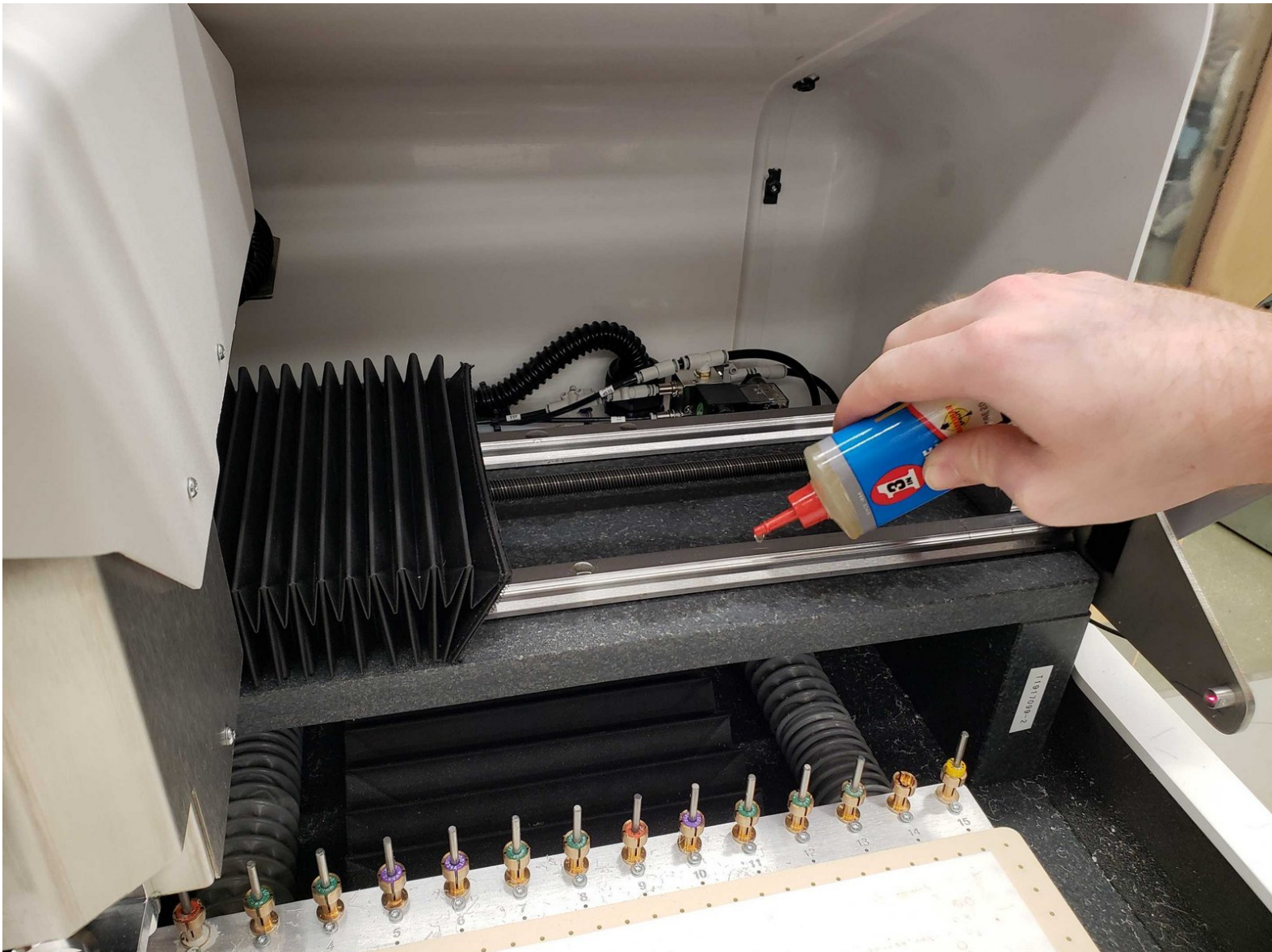




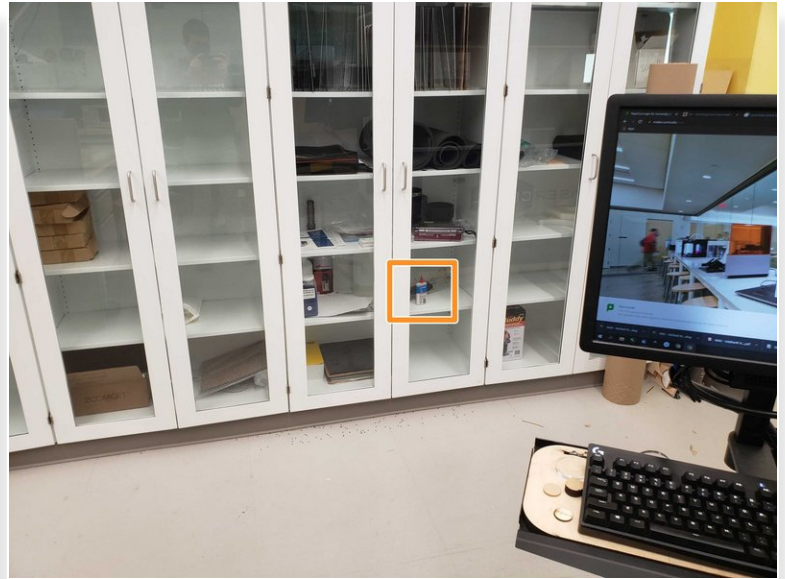
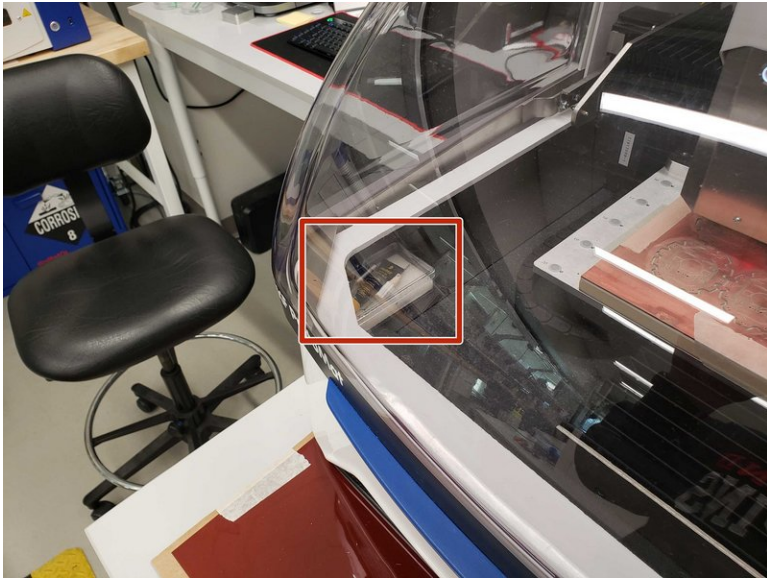
ProtoMat S64 Maintenance: Lubricating the Linear Rails and Collet

How to lubricate the moving parts on the ProtoMat S64.

Written By: Cosimos Sivan Cendo

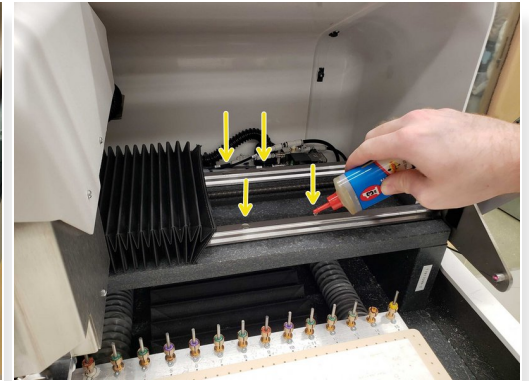
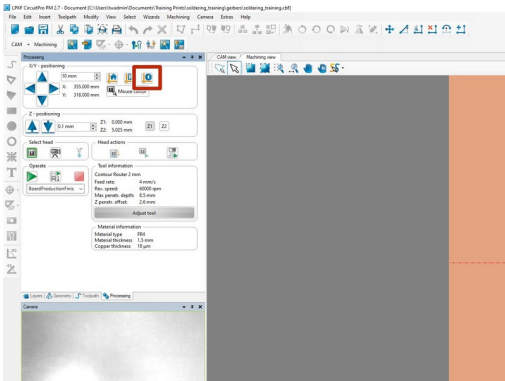


Step 1 — Materials



- Grease for the collet is located inside the ProtoMat on the left
- Oil for the linear rails is located in the cabinet next to the Kern
- ❗ This oil is also used for the Kern, so keep it in this cabinet

Step 2 — X axis rails




- Move the head to the **0** position using CircuitPro
 - Peel back the cover of the X-axis linear rails, which is held in place with velcro
 - Place two drops on each rail and pull the cover back over
- i** If the rails are exceptionally dirty, you may want to wipe them with a cloth before adding oil

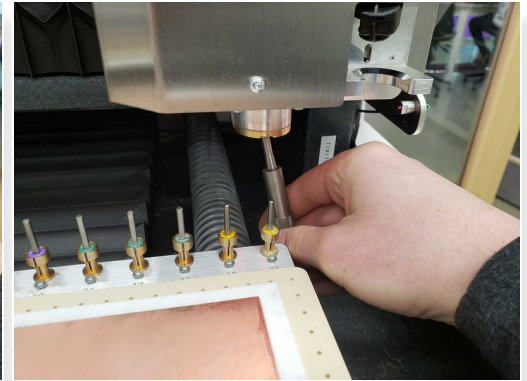
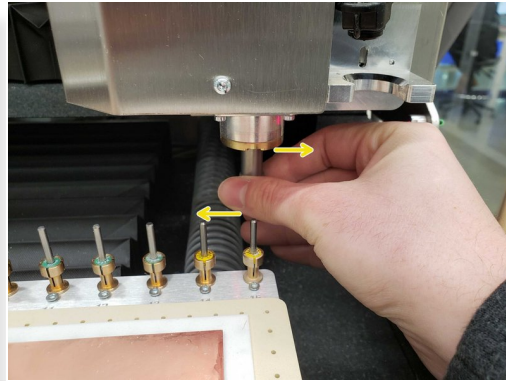
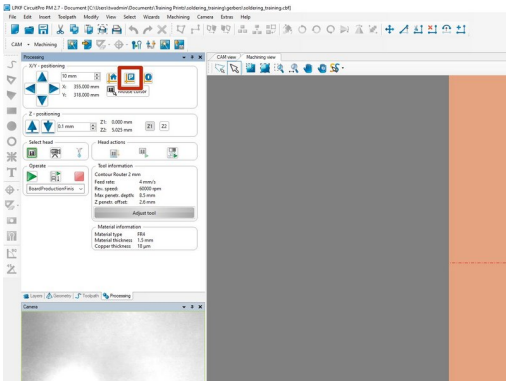
Step 3 — Y axis rails



- Do the same for the Y axis rails

 It's a good idea to vacuum beforehand so no shavings get onto the rails

Step 4 — Take out the collet



i If there is a tool in the collet, unload it

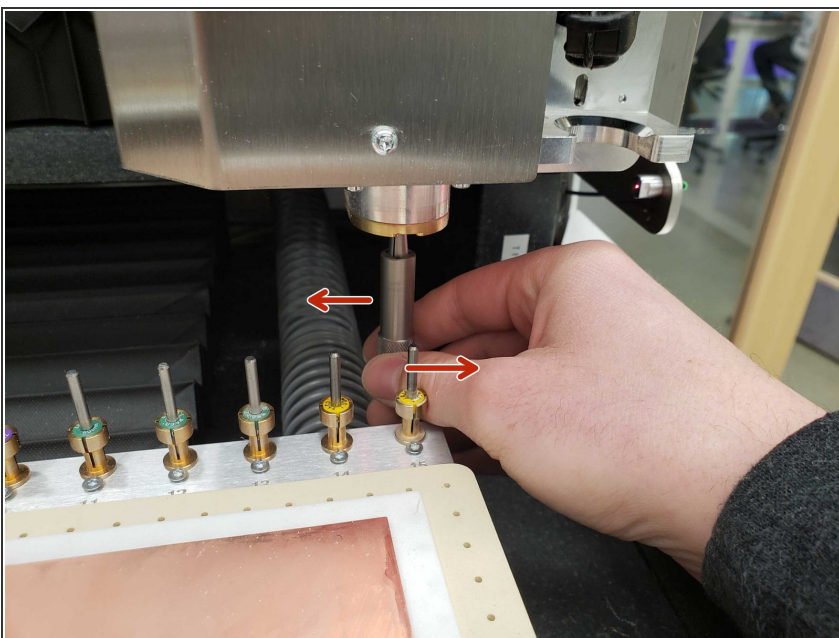
- Move the head to the **P** position using CircuitPro
- Insert the collet tool from the box into the spindle
- Twist counterclockwise (as if you were looking up into the spindle) to unscrew the collet

Step 5 — Grease the collet



- Put some grease on the foam spreader
- Spread a thin layer all around the collet

Step 6 — Place the collet back in



- Push the collet back into the spindle and twist clockwise to lock it back in place
- ① Next time CircuitPro asks you to perform these maintenance tasks, click the button confirming to did them to reset the internal timer

