JLTXplore

Skelestruder Usage / Tips

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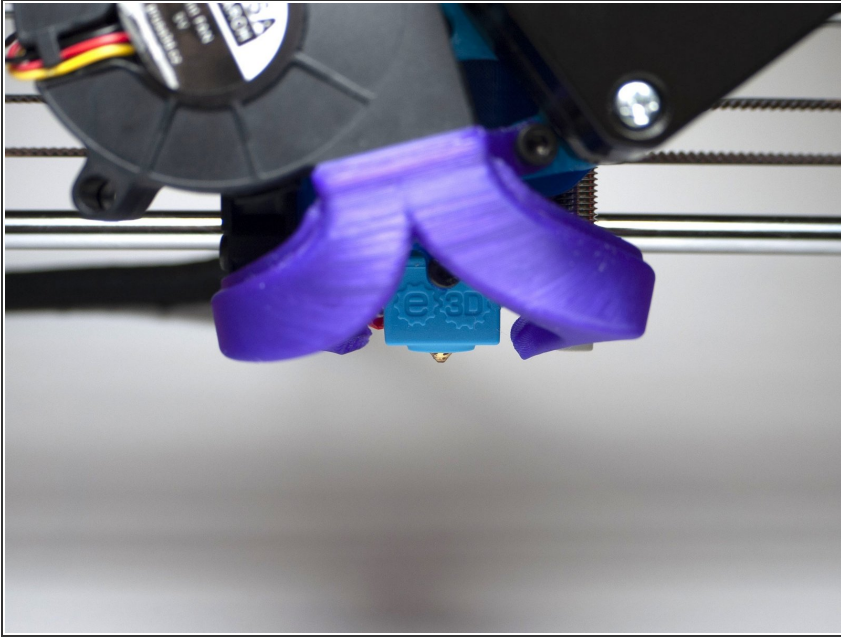
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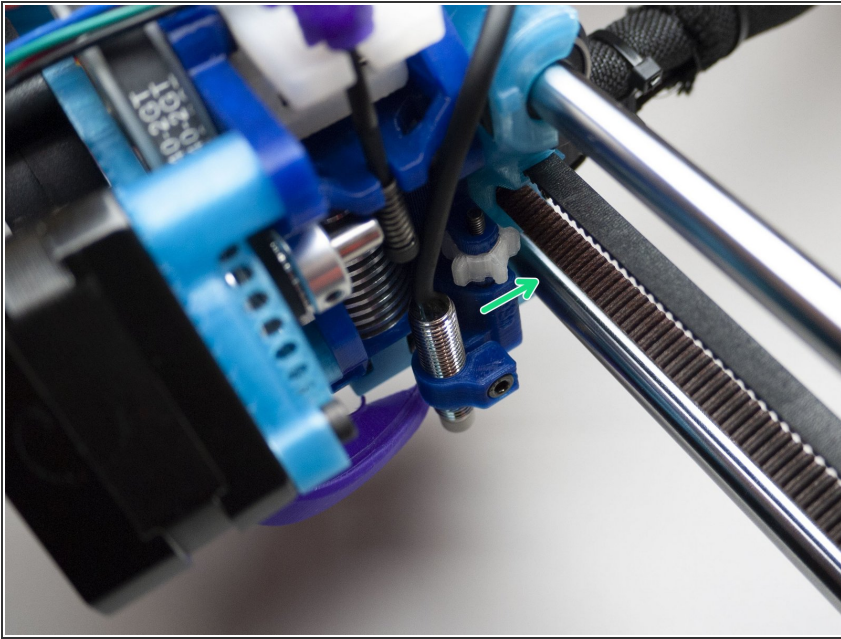
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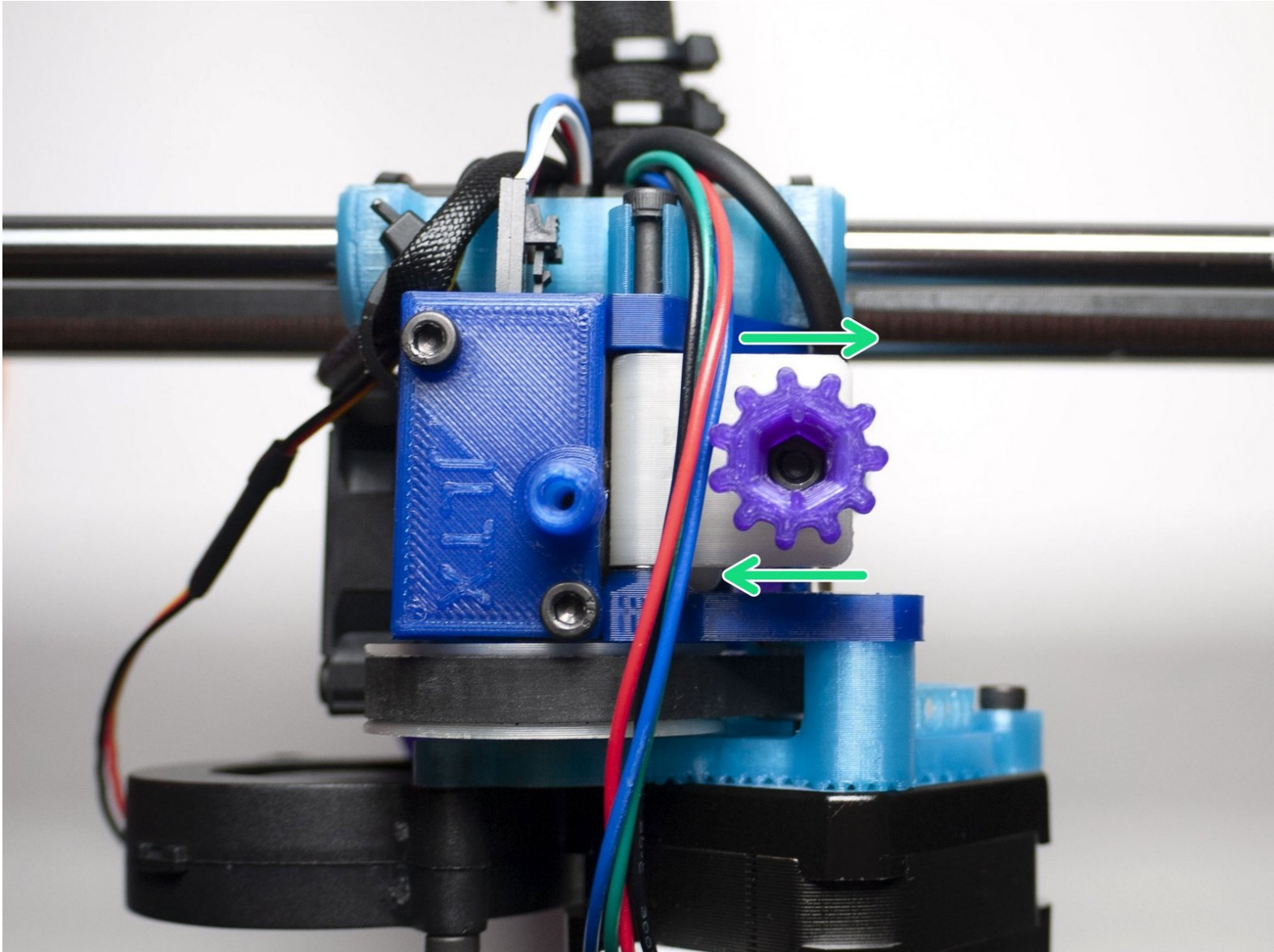
INTRODUCTION

Skelestruder brings big improvements in ease of use. In addition to things like clear view of the nozzle while printing (so valuable), some more niceties listed below.
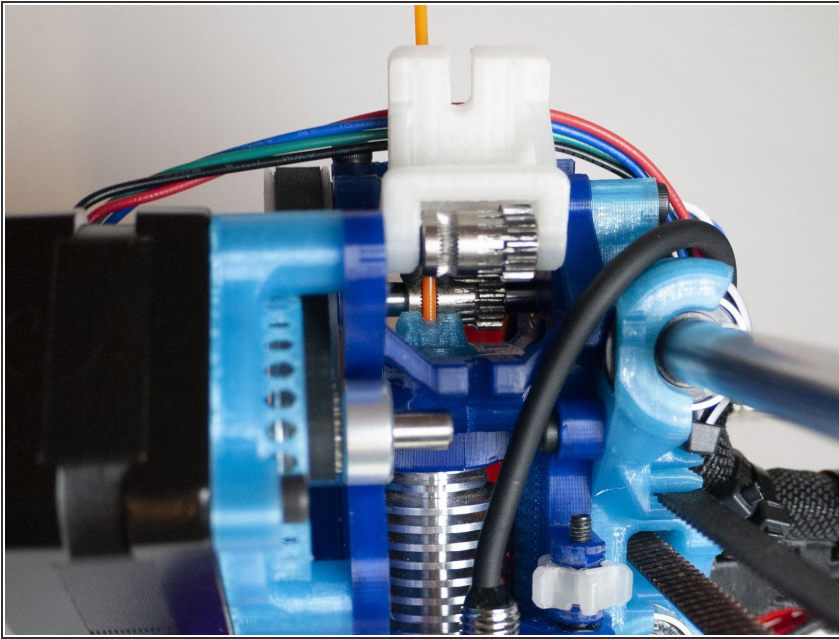
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Step 1 — Nozzle Visibility

- You can view the nozzle during the print which is great for troubleshooting and watching the first layer!

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Step 2 — Tool-free PINDA height adjust

- By turning PINDA adjust knob, it is simple to adjust PINDA height. For example when swapping between smooth and textured PEI sheet or different brand nozzles.

- Turn knob **counterclockwise** (looking down at bed) to lower PINDA which increases nozzle clearance to bed.

- Each detent click is 0.1mm height change. You can use this to easily bring down a high Live Z value. Example, 3 clicks **clockwise** subtracts 0.300 from Live Z.

- My textured PEI sheet is about 0.2 thinner than the smooth. So when I swap, I simply adjust the PINDA and don't even change the Live Z or run first layer calibration. It just works.

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## Step 3 — Tool-free quick gear access

- Unhook tensioner by lifting knob up slightly while sliding out of idler. Then drop slightly to release spring tension and pull tensioner out completely.

⚠ Watch pinda cable when removing and installing tensioner

- Now idler gate can be swung all the way up. This allows easy maintenance, clearing jams, or setting MMU load distances.

ⓘ Advanced Use: between MMU loads, I sometimes open this up and clean out debris.

Step 4 — Tool-free idler tension adjustment
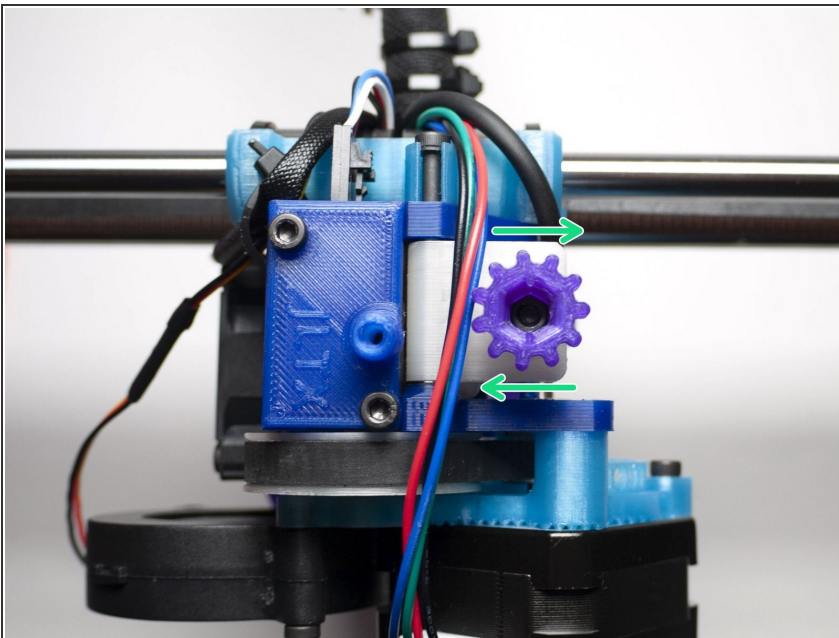
- To adjust tension on idler, turn tensioner knob clockwise (looking down) to increase tension.

- Turn 1/2 turns only and make sure pivots are set in idler detents. There are indicators on the top of the knob aligned with the pivots.

ⓘ May need to hold screw head to keep it from turning.

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Step 5 — Manual load / unload
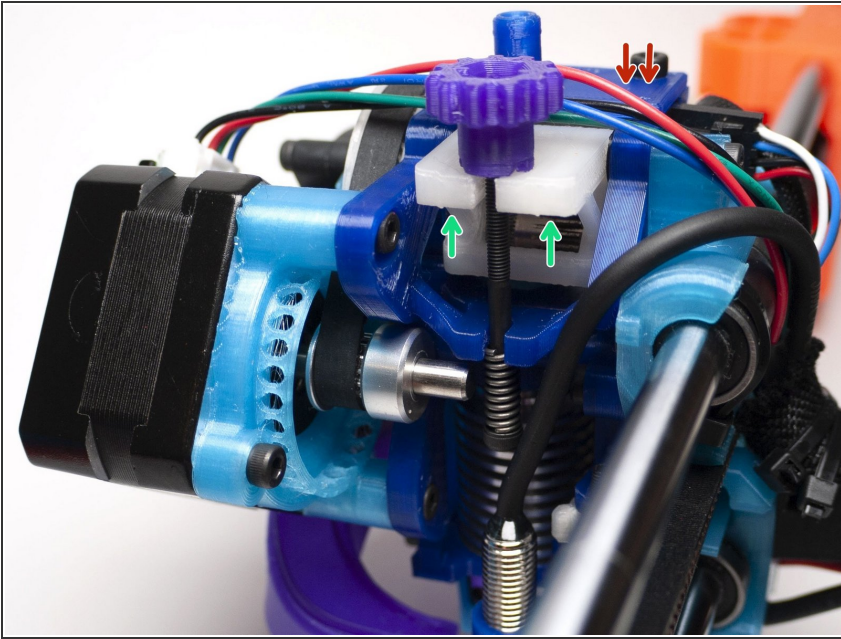
- To briefly disengage Bondtech gears for manual load / unload, just pull up from under idler edge (not the knob!) slightly until you can free filament.

- You can brace your thumb on the filament cover.

- Use this to catch/hold the filament while waiting for nozzle to heat before fully loading.

Step 6 — TIP: Filament loading confirmation
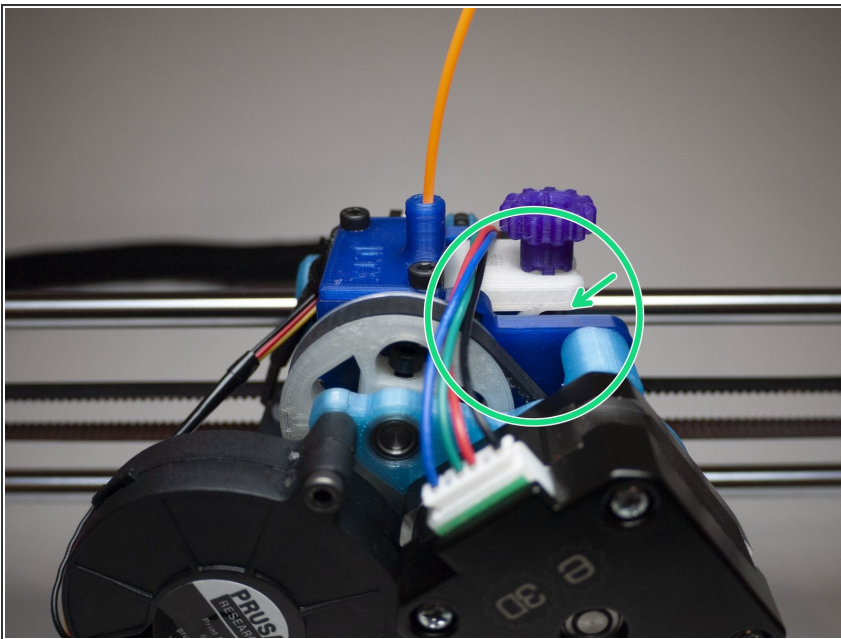
- There is a sight line between the horizontal lever of idler and top edge of Ecage F.

- When unloaded, the idler will be below this edge

- When filament is successfully grabbed by gears, the idler will rise up above this edge. Useful for MMU2 debug.

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Step 7 — Advanced Tip: Checking Gears During Print
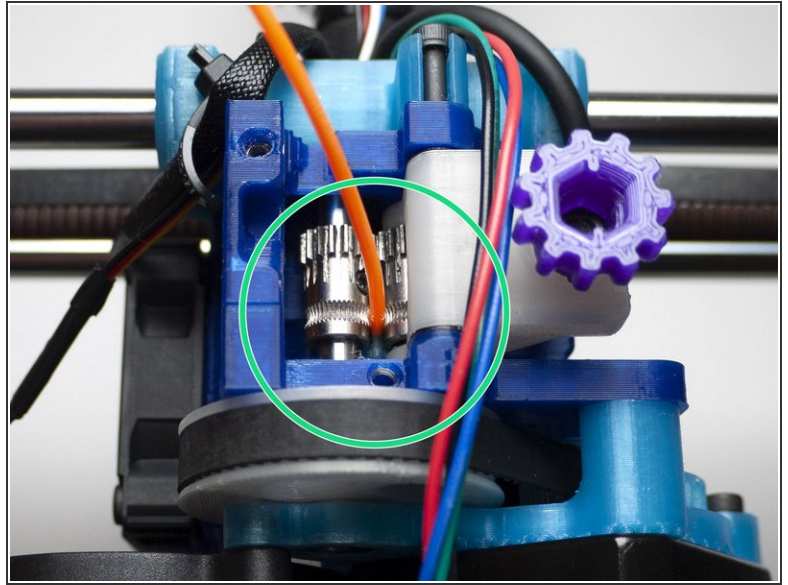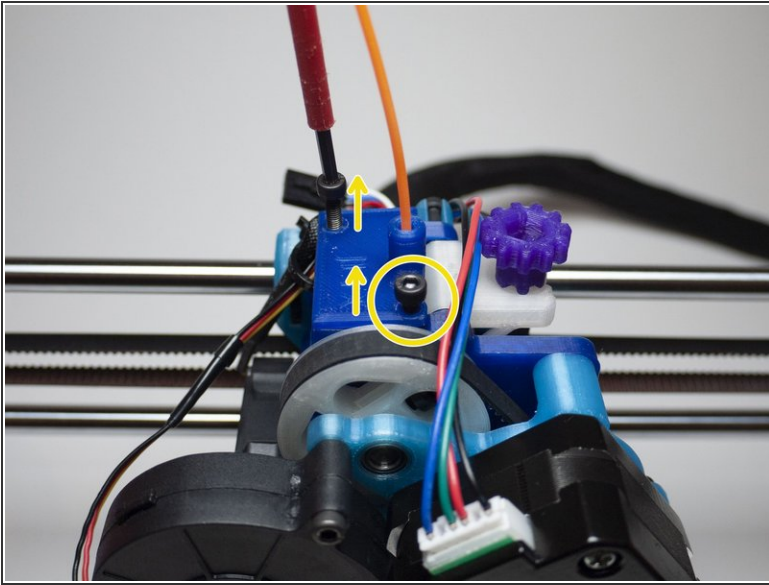
- To check if your Bondtech gears run aligned and see what effect they are having on your filament, unscrew the Cover/Cartridge during a print

- Do not fully unscrew the front screw. It holds the Cover to the Cartridge and lets you pull out both together

- Now you can watch the gears driving down the filament and adjust tension as needed

⚠ This is for advanced users and risk of damage if not careful. X-carriage will move on its own since still printing.