

ENDER ALUMNI WORKFLOW

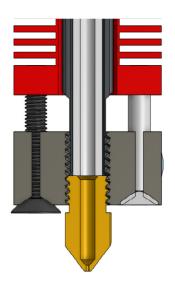
Maintenance

October 2023

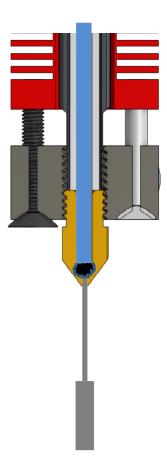
T&P list: Nozzle, Belts, Cams, Gear, IPA



Cleaning Nozzle Workflow

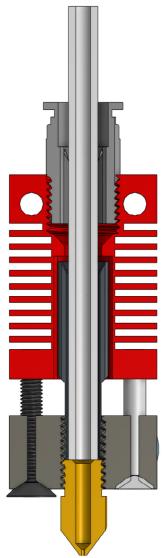


- 1. Heat Hot End (Prepare/Prepare PLA/End)
- 2. Hold 0.4 reamer to nozzle to heat
- 3. Find hole and dislodge gunk
- 4. Remove reamer
- 5. Feed out filament to purge





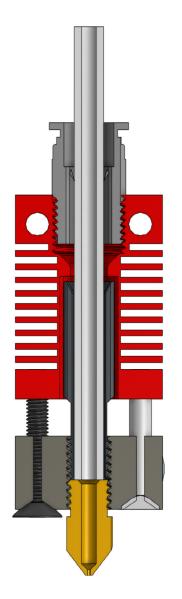
Replace Nozzle Workflow



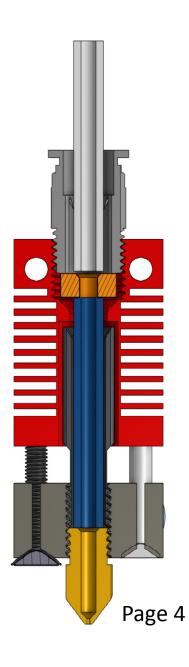
- 1. Heat Hot End (Prepare/Prepare PLA/End
- 2. Remove filament
- 3. Remove Nozzle
- 4. Unlock Pneumatic fitting collar
- 5. Push PTFE tube to release and remove
- 6. Inspect
- 7. Remove pneumatic fitting
- 8. Brush out bore
- 9. Mount nozzle
- 10. Back off 1/8 turn
- 11. Replace Pneumatic fitting
- 12. Push filament all the way down to nozzle
- 13. Tighten nozzle 1/8 turn
- 14. Insert blue clip on pneumatic fitting
- 15. Load filament
- 16. Prepare/Move Axis/Extruder/10mm (pump out filament)
- 17. Measure diameter of output should be .47 to .59 mm



Capricorn Nozzle Fix Workflow

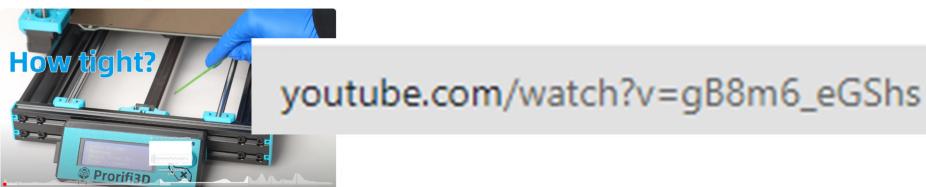


- I. Heat Hot End (Prepare/Prepare PLA/End
- 2. Remove filament
- 3. Remove Nozzle
- 4. Unlock Pneumatic fitting collar
- 5. Push PTFE tube to release and remove
- 6. Inspect
- 7. Remove pneumatic fitting
- 8. Brush out bore
- 9. Mount nozzle
- 10. Measure Depth
- 11. Determine Capricorn length & Cut (Square!)
- 12. Insert Capricorn
- 13. Insert spacer
- 14. Loosen Nozzle 1/8 turn
- 15. Insert pneumatic fitting to compress spacer and Capricorn
- 16. Tighten Nozzle 1/8 turn
- 17. Shorten original PTFE tube by Capricorn and spacer
- 18. Insert PTFE tube
- 19. Reload filament
- 20. Test Extrude





Belt Tension 3 opinions



We found the BEST belt tension for 3D printers



youtube.com/watch?v=_m9TTzEh5xM&t=3s

Conclusion

Q .

- Also bear in mind tuning to a frequency requires you to know the span length.
- You can use displacement if you have enough displace the gates guide for how.

I know what the correct 3D printer belt tension is! Let me explain what it is and how to set it!

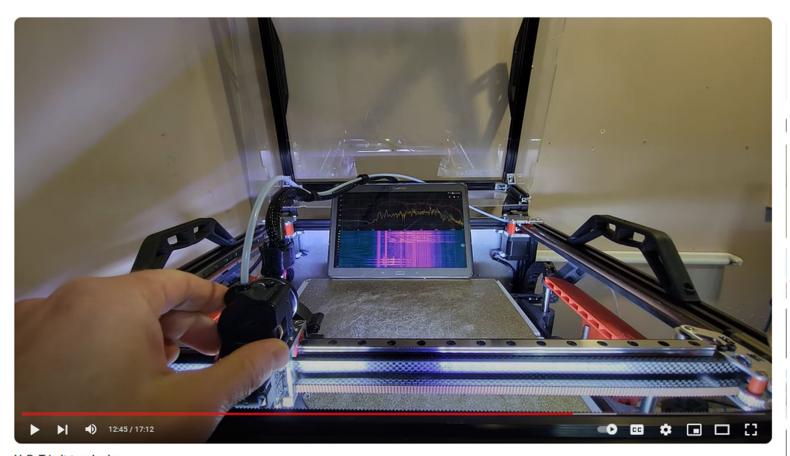
youtube.com/watch?v=zoKmmT0a7jk

This is *not a peer reviewed study*. Check the description for errors, corrections, etc.
 So that's my advice. Get a cheap luggage
 Like and subsc scale, and tighten to the stepper spec. (*)



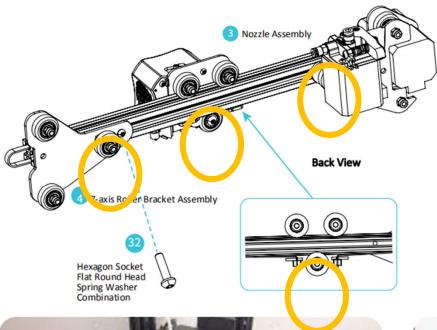
Belt Tension "Tuning"

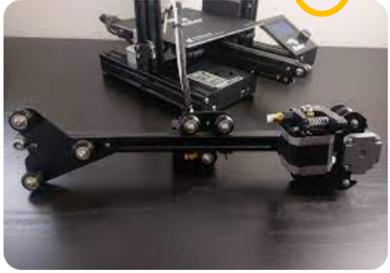
youtube.com/watch?app=desktop&v=qNMXW6MUV5E





Cam Roller



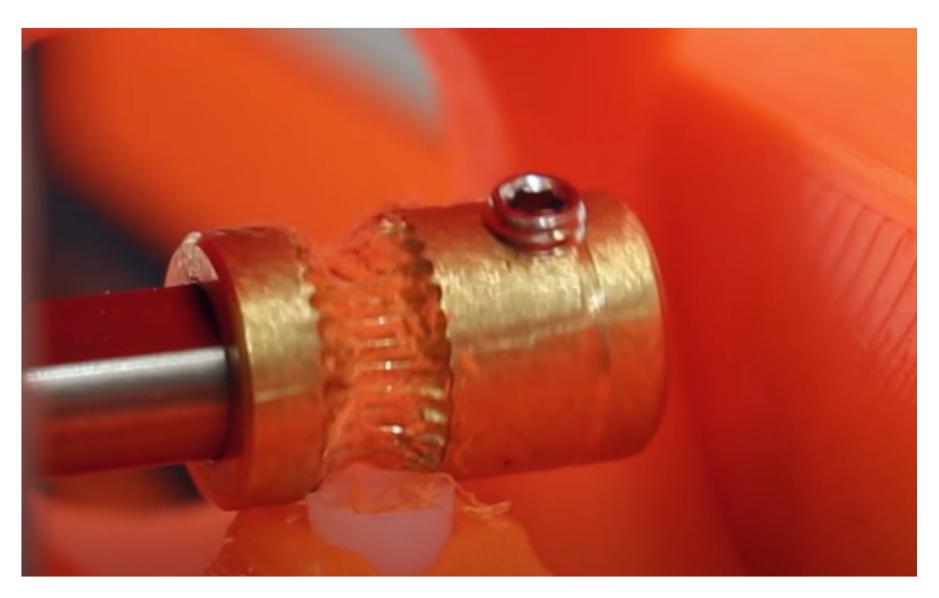




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Hobbed Gear chewing





Paul's RoT: Every print

Wear resistant and scratch resistant, easy to clean

After using for several times, the platform will be clean by using alcohol or acetone

