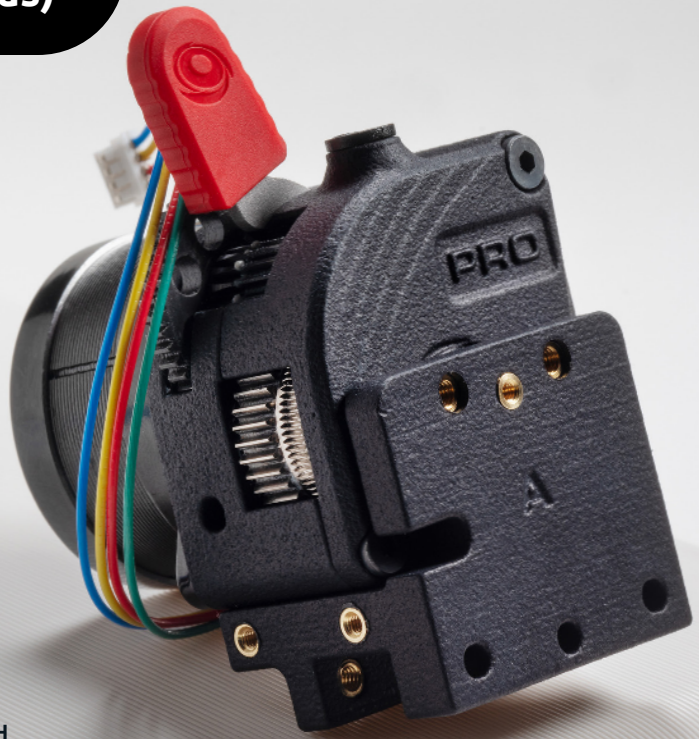
HOW TO

Install an LGX Lite PRO Upgrade Kit for Elegoo Neptune 4 (Pro, Max and Plus)

Difficulty	***Easy***
Steps	***95***
Time Required	***20 min***
Required Tools	***Small Phillips Screwdriver*** ***2mm hex key***



BONDTECH

INSTRUCTIONS GUIDE

This guide is designed to be a reference manual for the installation of an LGX Lite PRO Upgrade Kit for Elegoo Neptune 4 (Pro, Max and Plus). Follow the instructions below or, if you prefer to watch a YouTube video with the same instructions, use the provided link or the YouTube icon to the right:
https://youtu.be/AFBNoV-RcyM

Pre-heat the printer so you can remove the filament.

Remove the filament.

Cool down your printer.

Turn off your printer.

Remove the power cord.

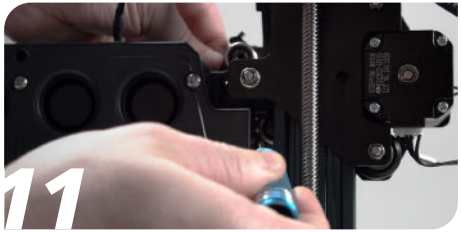
Open to release the ribbon cable.

Remove the ribbon cable.

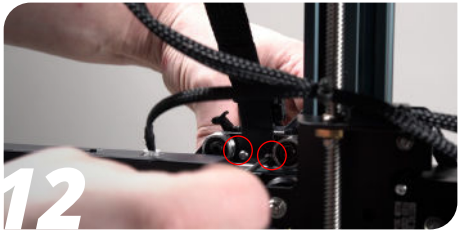
Unscrew the M3x8 for the cowling on one side.

Repeat the process for the other side and remove the cover.

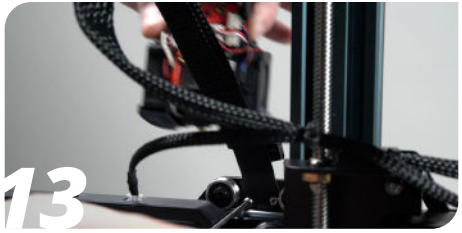
Loosen the two M3x8 on the print head from behind. (For easier access, remove rear cooling fan).



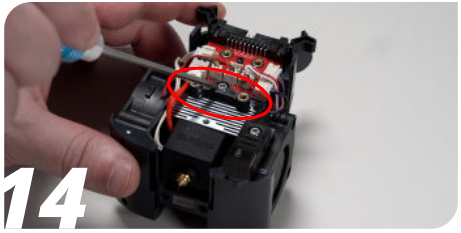
Move the extruder over to access the second screw on the back and unscrew it.



Unscrew the two M3x16 for the cable fastener.

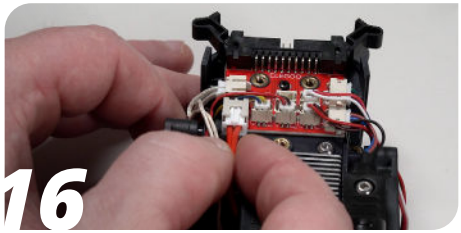


The whole toolhead comes loose.

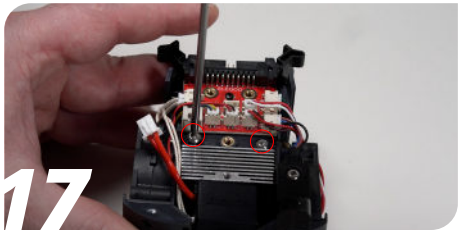


For Neptune 4 Pro printers, this bracket will be reused. You can skip if you have a Neptune 4, Neptune 4 Max or Plus.

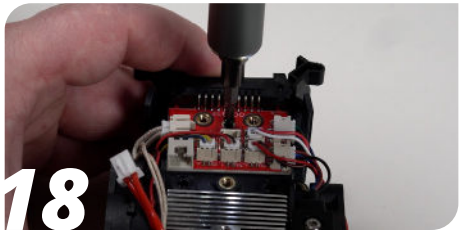
Unscrew the M3x8 from the small bracket. It will be reused on the Bondtech Print head mounting plate.



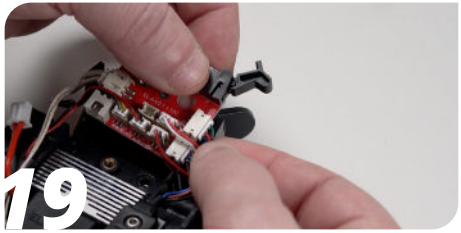
Carefully pull out the heater cable.



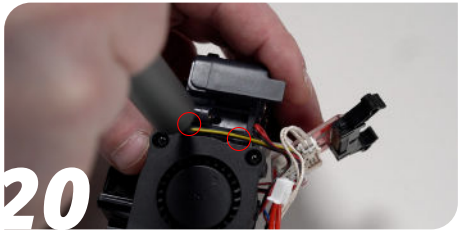
Unscrew both M3x20 screws that hold the heatsink and hotend.



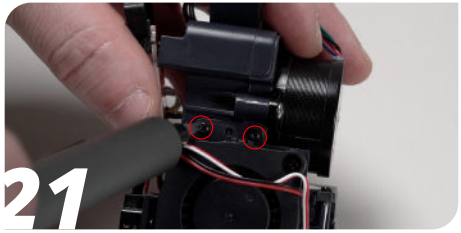
Unscrew the M2x6 that holds the PCB card.



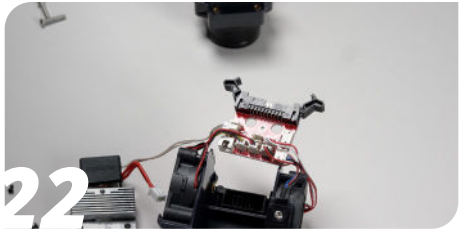
Disconnect the stepper motor cable.



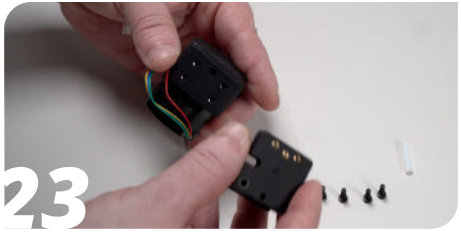
Remove the two M2x6 screws that holds the part cooling fans



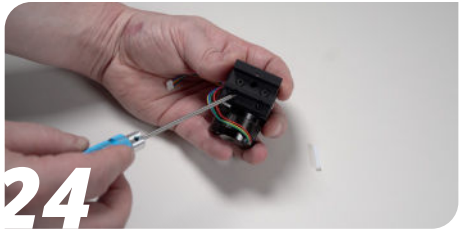
Repeat the process for the other side.



Separate the extruder from the cooling assembly.

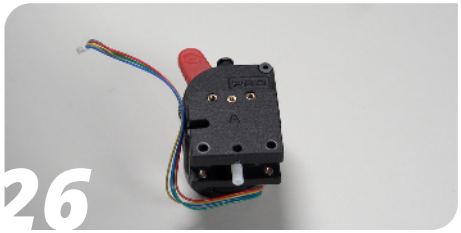


Mount the SLS printed bracket on the LGX Lite PRO extruder using four M3x8 Low Head Cap Screws.

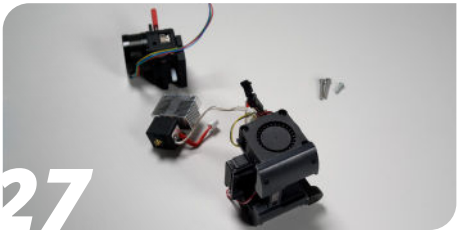


Tighten the screws lightly first, and after all screws in place, tighten fully.

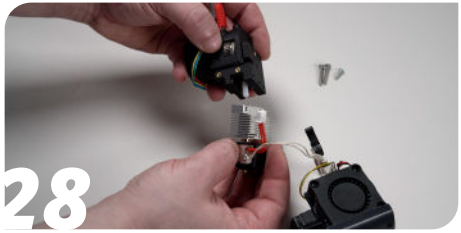
Insert 13mm PTFE tube.



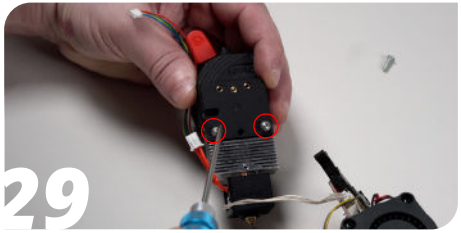
And this part is done.



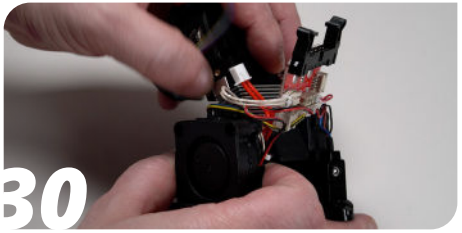
Now let's reassemble the printhead.



Attach the heatsink to the hotend. It's a snug fit so press gently but firmly so that the holes align.

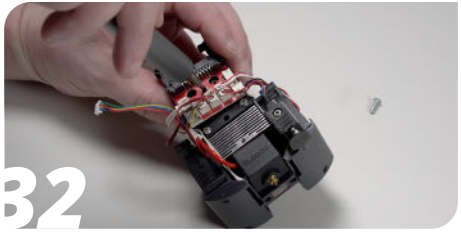


Fasten the heatsink and hotend with M3x20 Button Head screws using a 2mm hex key.

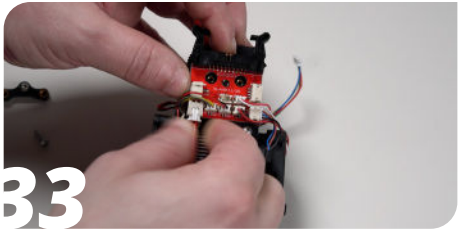


Attach the part cooling and heatsink fans to the SLS printed bracket using the same four M2x6 as on stock bracket.

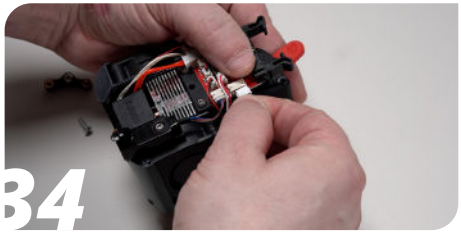
Two screws above the fan on each side.



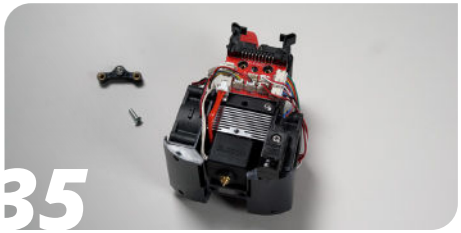
Fasten the PCB card using same screw as on stock bracket.



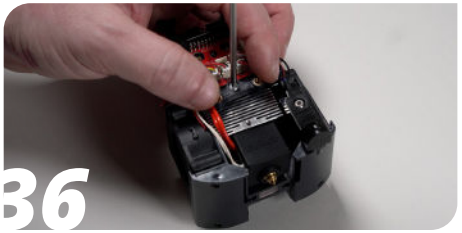
Carefully connect the cable to the heater.



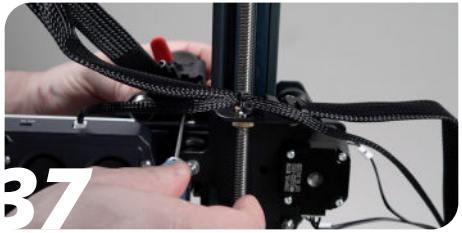
Carefully connect the cable to the LGX Lite PRO stepper motor.



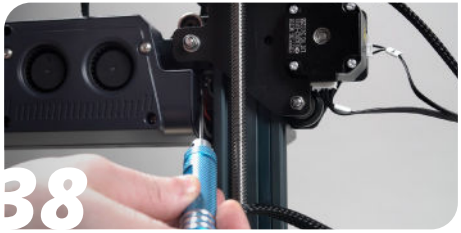
This step only applies to the Neptune 4 Pro printers.



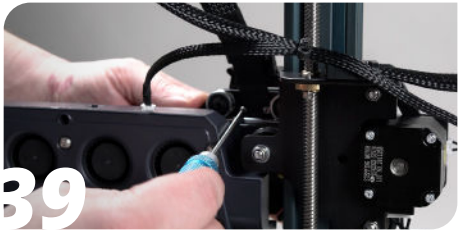
Fasten the smal bracket using M3x10 Button Head screw provided by Bondtech.



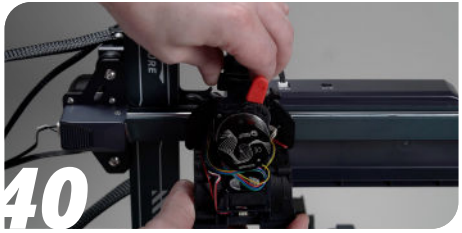
Using the 2mm hex key, lightly tighten both M3x16 screws into the cable fastener.



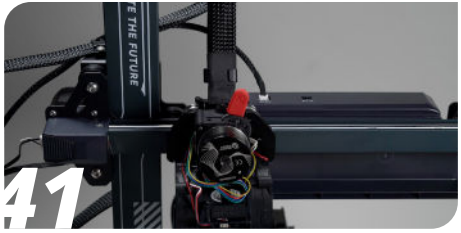
Screw back the two M3x8 on the bottom side, making sure the printhead is straight before tightening the screws fully.



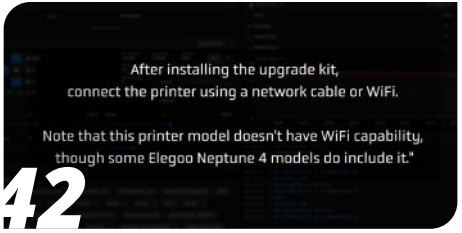
Hold the printhead straight and fully tighten the M3x16 screws.



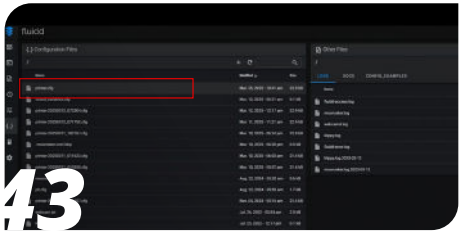
Reattach the ribbon cable and check that the printhead is straight and sits firmly in place.



And another part done.

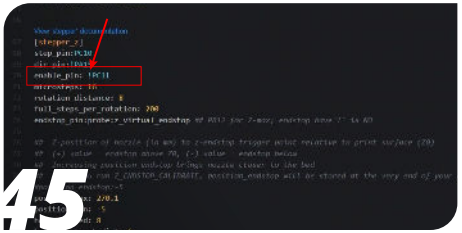


Ready to move to the next part.



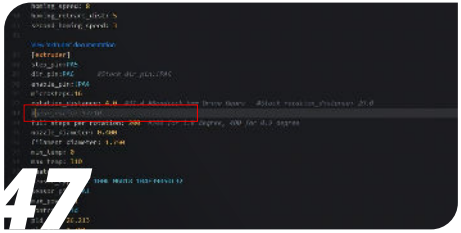
Locate the printer.cfg file.
(download your printer as a backup)

Scroll down to the extruder section.

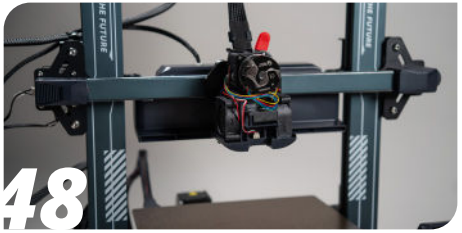


Delete the exclamation mark (!) on dir_pin:

Change rotation _distance: 29.0 to rotation_distance: 4.0



Put a hashtag sign # in front of gear_ratio



Save and exit. Restart your printer and it's done!

IT'S DONE! TAKE GOOD CARE OF IT

Every 6 months, or sooner if you have a higher than 15h per week average usage, perform the following maintenance operations:

1. With a tooth brush and alcohol:
    a. Clean the double gear and the drive gears
    b. Clean the needle bearings
2. With a fine brush and lubricant
    a. Lubricate the needle bearings
3. With compressed air
    a. Blow the housing plastic parts to remove dust and dirt particles

HOW TO GET HELP

We are available to help you with any questions or issues you may have. Simply go to our website where you can access our customer support and send us your questions or follow the provided link:

https://www.bondtech.se/contact/#tab_technical-support-requests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