

## Elegoo Neptune 4/ Pro/Max/Plus Fan Shroud V5



OrzOrzOrz

[VIEW IN BROWSER](#)

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### Summary

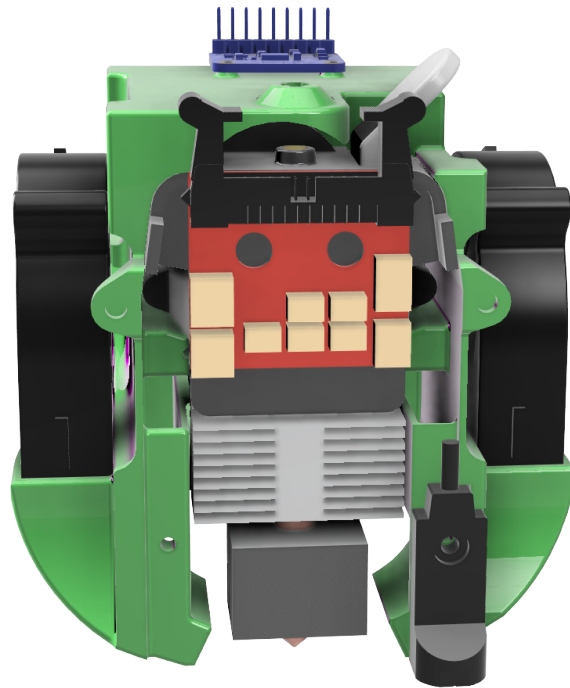
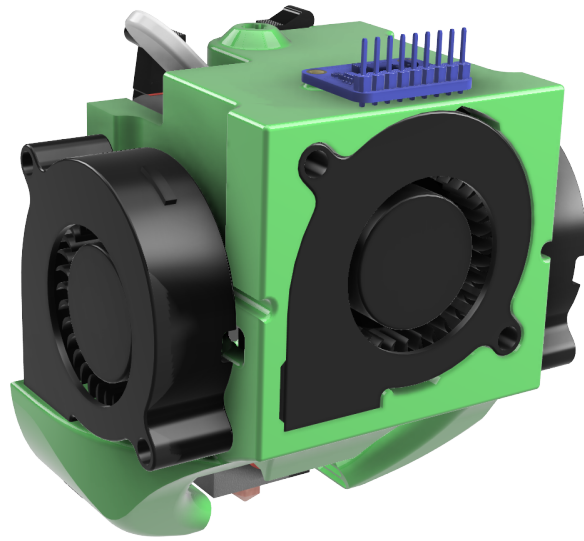
Version 5 of my Fanshroud for the Neptune 4/Pro. <https://www.buymeacoffee.com/orzorzorz>

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Tags: [fan](#) [fanduct](#) [fanshroud](#) [neptune](#) [elegoo](#)  
[neptune4pro](#) [neptune4](#)

### V6 Prototype Update:

As I'm currently not really motivated to further redesign the fan shroud, I thought to add the last prototype I made. I think I'll finish it in the future, but not right now. So maybe one of you can play around with it and make something great out of it.



### **V5 Design:**

V5 is designed for two 5015 radial fans, and it utilizes one of the original Elegoo 4015 radial fans as the heatsink fan. To make the 4015 work as the heatsink fan, I had to reverse the positive and negative pins, as the pins on the PCB were incorrect, at least on my machine.

I also have adjusted the fan speed of the 4015 fan to 0.4 in my printer.cfg.

```

346
347 #####
348
349
350 #fan for printed model FAN0
    View 'fan' documentation
351 [fan]
352 pin: PC9
353
354 #fan for hotend FAN1
    View 'heater_fan' documentation
355 [heater_fan fan1]
356 pin: PA8
357 fan_speed: 0.4
358 shutdown_speed: 1
359
360 # [controller_fan controller_fan1]
361 # pin: PA8
362 # fan_speed: 1.0
363 # idle_timeout: 900
364
365

```

During printing, I positioned the model with the front side facing down on the build plate, supporting only the connecting points for the 4015 blower fan.

To attach the shroud to the hotend, use the original four M2 screws (add M2 washers if available) and the two M3x8 screws. The 5015 blowers require two M3x20 screws, and the heatsink cooler needs three M3x20 screws.

**Screw the 5015 blower on last; otherwise, you won't have access to the two M3x8 screws to mount on the backplate.**

For now, I've directly tapped the screw holes into the PLA, which has worked great so far. Mount the LED with two M3x8 screws.

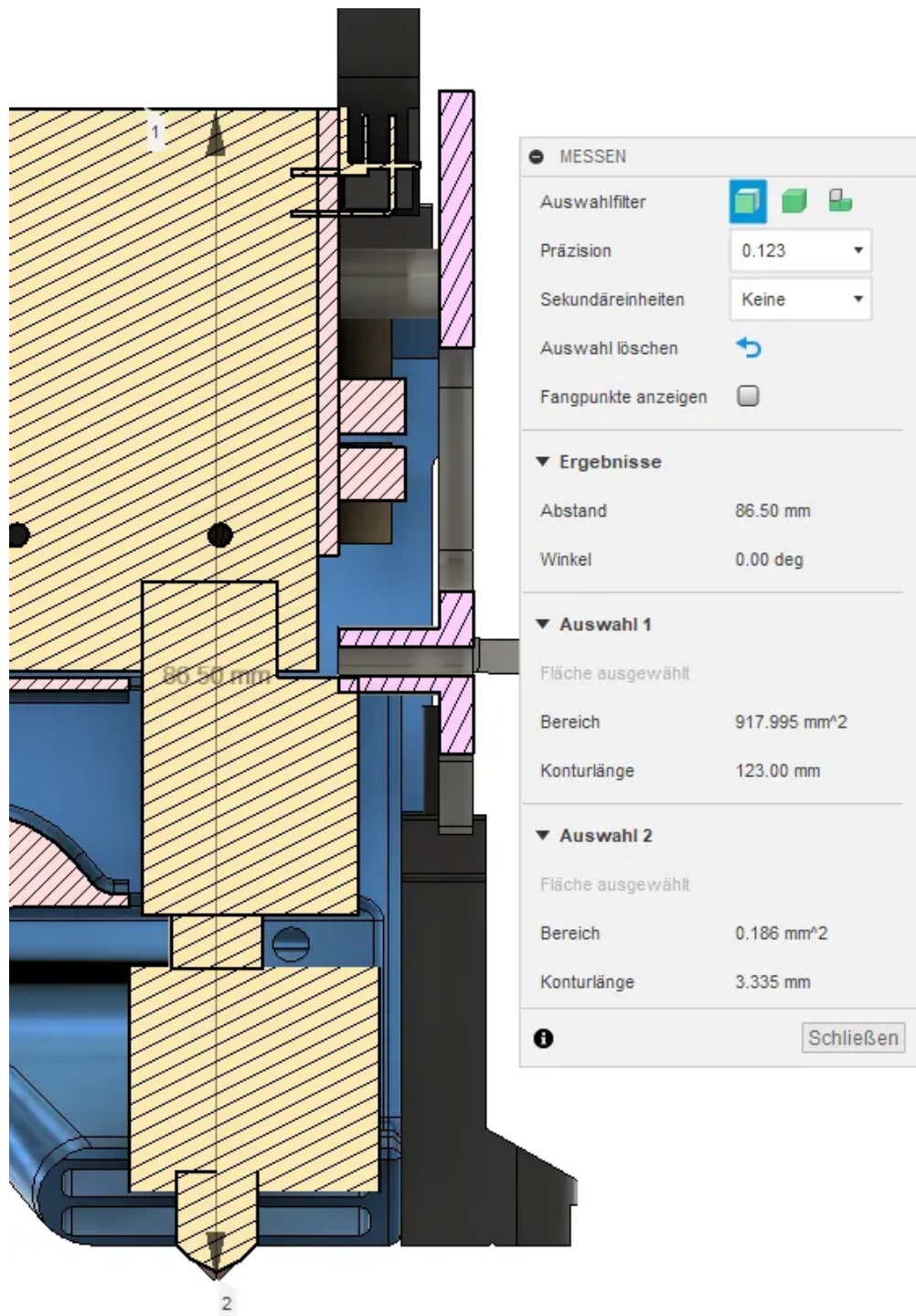
### Printsettings:

- I printed the shroud in lightweight PLA
- 0.2mm layer height
- two walls, alternating extra walls
- 10% Gyroid infill.
- Just support the 4015 blower fan mounting face.

## **I'll add later:**

- A vented version. Added 08.01.2024.
- A non ADXL mount version. Added 08.01.2024.
- Added support and fan spacer as separate pieces.  
I tapped my fan spacer M3 and lightly screwed it on first. Added 09.01.2024
- **A slightly longer version for the Bambu Lab hotend mod.**
- The Plus/Max versions are 1.5mm longer. **I don't know if they are strictly necessary, but some users had problems with the normal version.** Added 09.01.2024
- Added Models to mount the KUSBA accelerometer. 28.01.2024  
**Could someone please measure the overall length of the Plus/Max?**  
**For the Pro, it is around 86.5mm. The Plus/Max models are**

made for 88mm.



**I ordered the following parts:**

Wires: [Amazon Link](#)

Fans: [Amazon Link](#)

**Stay tuned for updates, and feel free to share your feedback for an enhanced 3D printing experience.**

**If you appreciate what I've designed so far, feel free to buy me a coffee!**

<https://www.paypal.me/OrzOrzOrzPP>  
<https://www.buymeacoffee.com/orzorzorz>

## Model files



### V6 Prototype

2 files



**n4-shroud-v6-prototype.stl**

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**n4-shroud-v6-prototype.step**



### Pro and Non-Pro STL

11 files



**n4-shroud-v5-pro-and-non-pro-adxl-19mm-spacing.stl**



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**n4-shroud-v5-pro-and-non-pro-fancover.stl**



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**n4-shroud-v5-support-fan-spacer.stl**



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**n4-shroud-v5-support.stl**

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**n4-shroud-v5-pro-and-non-pro-adxl-19mm-spacing-vent... .stl**



**n4-shroud-v5-pro-and-non-pro-adxl-15mm-spacing.stl**



**n4-shroud-v5-pro-and-non-pro-adxl-15mm-spacing-vent... .stl**



**n4-shroud-v5-pro-and-non-pro-no-adxl.stl**



**n4-shroud-v5-pro-and-non-pro-no-adxl-vented.stl**



**n4-shroud-v5-pro-and-non-pro-adxl-kusba-spacing.stl**



**n4-shroud-v5-pro-and-non-pro-adxl-kusba-spacing-ven... .stl**



## **Pro and Non-Pro STP**

9 files

**n4-shroud-v5-pro-and-non-pro-adxl-19mm-spacing.step**

**n4-shroud-v5-pro-and-non-pro-fancover.step**

**n4-shroud-v5-pro-and-non-pro-adxl-19mm-spacing-vent... .step**

**n4-shroud-v5-pro-and-non-pro-adxl-15mm-spacing.step**

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**n4-shroud-v5-pro-and-non-pro-adxl-15mm-spacing-vent... .step**

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**n4-shroud-v5-pro-and-non-pro-no-adxl-vented.step**

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**n4-shroud-v5-pro-and-non-pro-no-adxl.step**

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**n4-shroud-v5-pro-and-non-pro-adxl-kusba-spacing.step**

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**n4-shroud-v5-pro-and-non-pro-adxl-kusba-spacing-ven... .step**



**Max and Plus STL**

11 files



**n4-shroud-v5-max-and-plus-fancover.stl**

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**n4-shroud-v5-support-fan-spacer.stl**

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**n4-shroud-v5-support.stl**

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**n4-shroud-v5-max-and-plus-adxl-19mm-spacing.stl**

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**n4-shroud-v5-max-and-plus-adxl-19mm-spacing-vented.stl**

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**n4-shroud-v5-max-and-plus-adxl-15mm-spacing.stl**



**n4-shroud-v5-max-and-plus-adxl-15mm-spacing-vented.stl**



**n4-shroud-v5-max-and-plus-no-adxl.stl**



**n4-shroud-v5-max-and-plus-no-adxl-vented.stl**



**n4-shroud-v5-max-and-plus-adxl-kusba-spacing-vented.stl**



**n4-shroud-v5-max-and-plus-adxl-kusba-spacing.stl**



**Max and Plus STP**

9 files

**n4-shroud-v5-max-and-plus-adxl-19mm-spacing.step**

**n4-shroud-v5-max-and-plus-fancover.step**

**n4-shroud-v5-max-and-plus-adxl-19mm-spacing-vented.step**

**n4-shroud-v5-max-and-plus-adxl-15mm-spacing.step**

**n4-shroud-v5-max-and-plus-adxl-15mm-spacing-vented.step**

**n4-shroud-v5-max-and-plus-no-adxl.step**

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**n4-shroud-v5-max-and-plus-no-adxl-vented.step**

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**n4-shroud-v5-max-and-plus-adxl-kusba-spacing-vented.step**

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**n4-shroud-v5-max-and-plus-adxl-kusba-spacing.step**

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