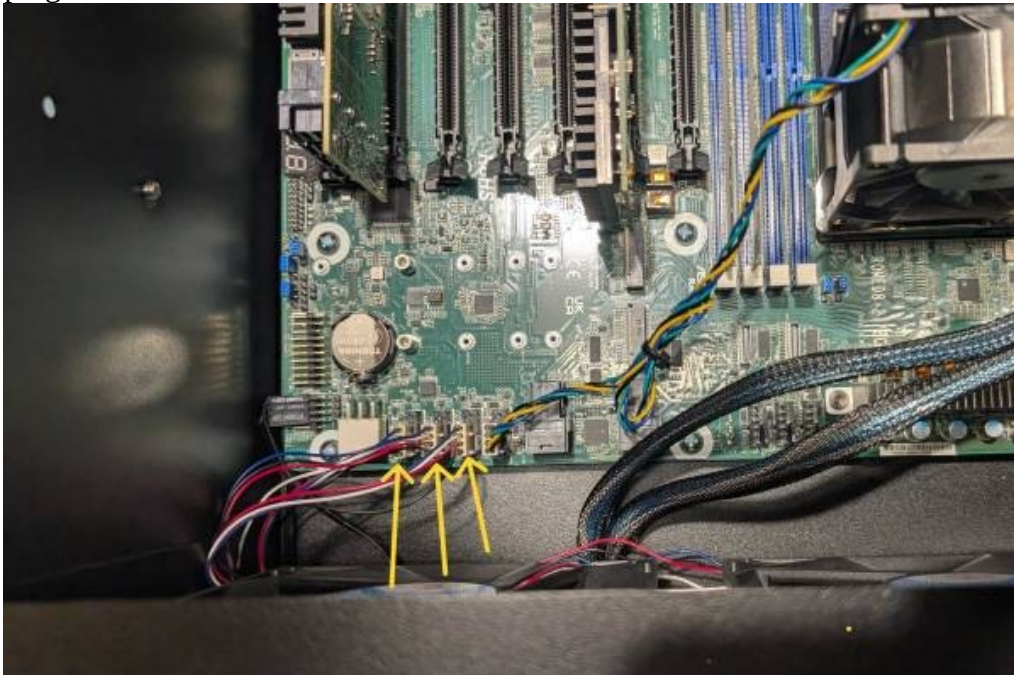
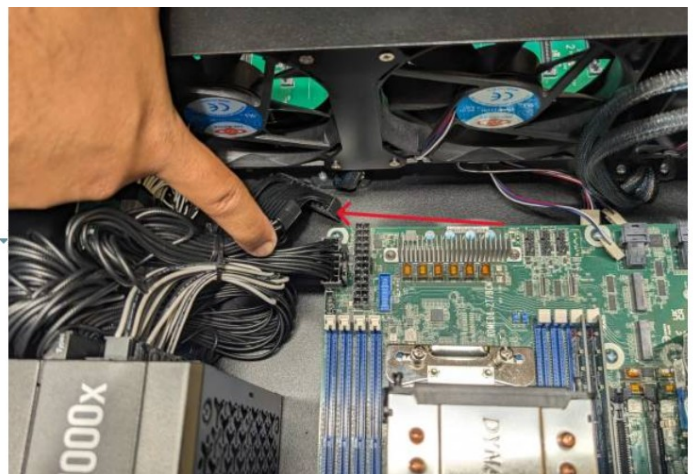
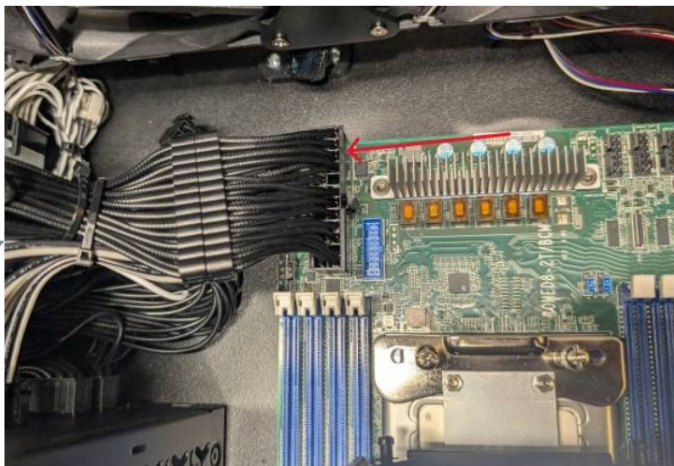


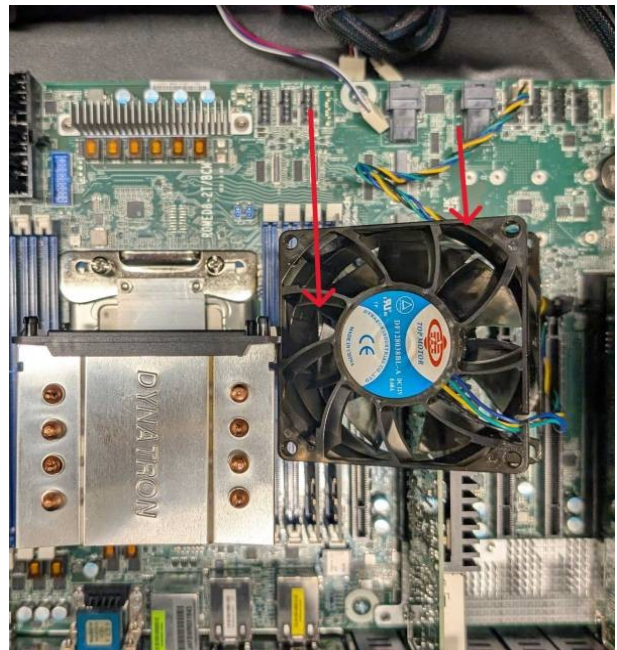
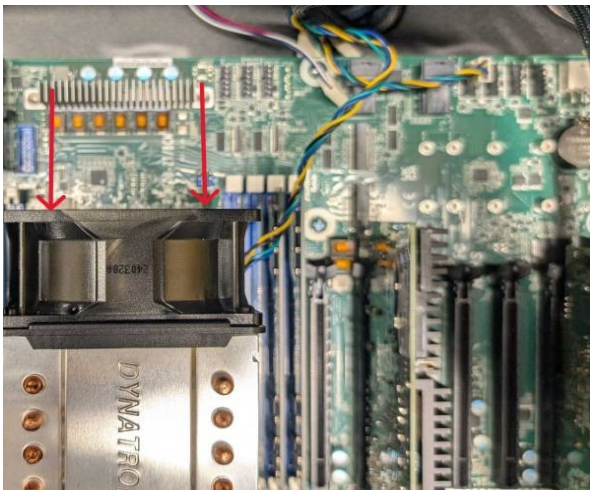
Disassembly.

1. Unplug the fan wires from the motherboard.



2. Disconnect the motherboard cables and remove heatsink fan, this will make it easier to remove the 3D-printed part or skip to step 3.

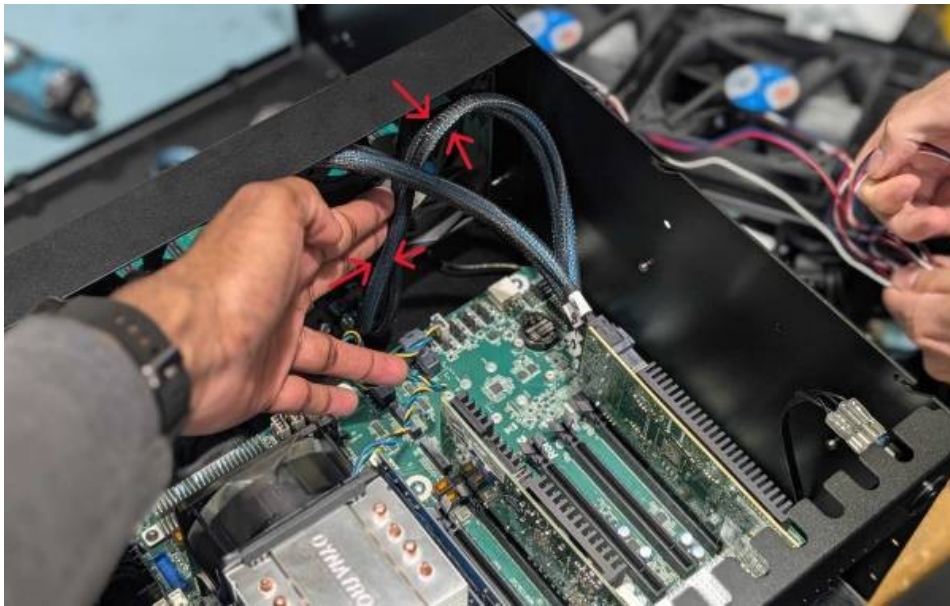




3. Unscrew the 3d printed parts from rear fan bracket.



4. Pull out the SATA cables form the rear fan bracket.



5. Carefully cut out the zip ties, fan wires are tied to.



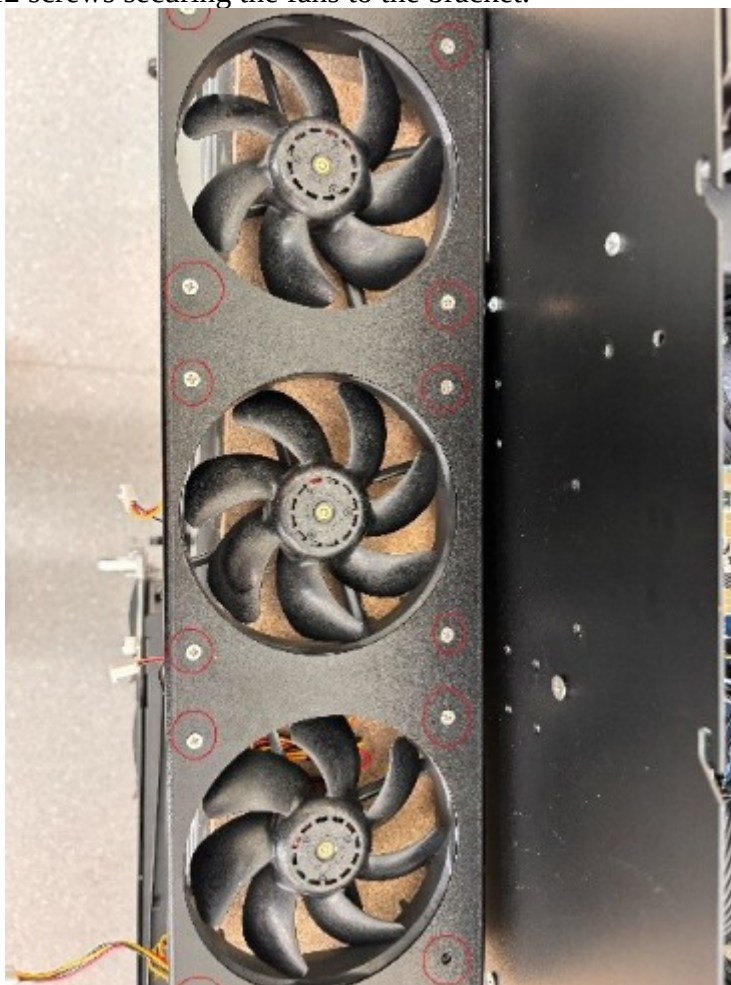
6. Unscrew the center fan bracket from either side of the Homelab chassis.



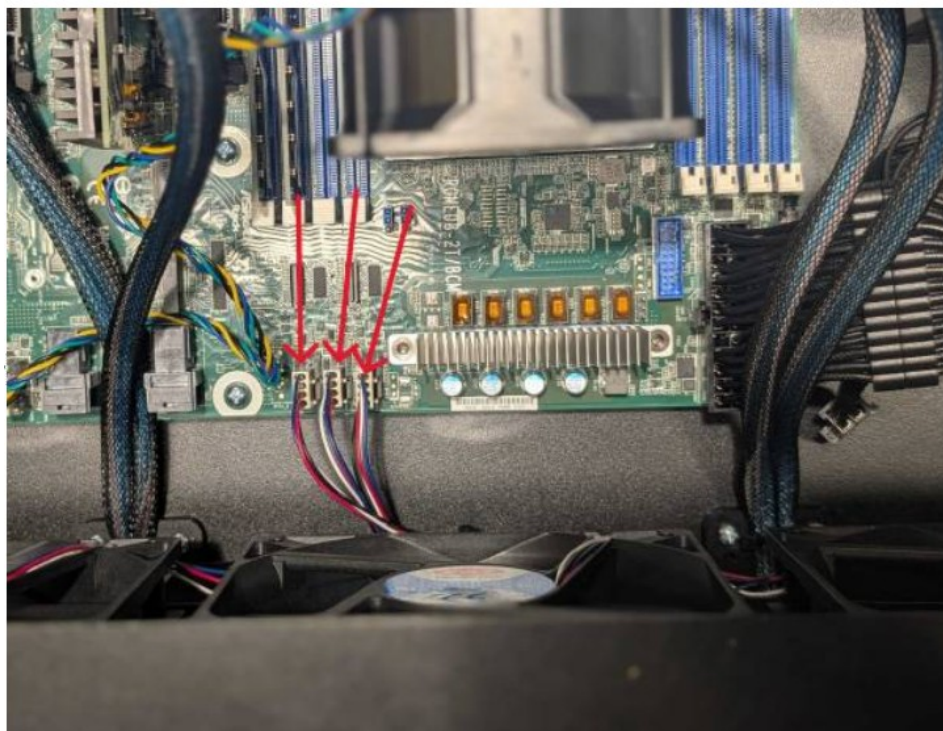
7. Slide the center bracket upwards and remove it from the chassis.



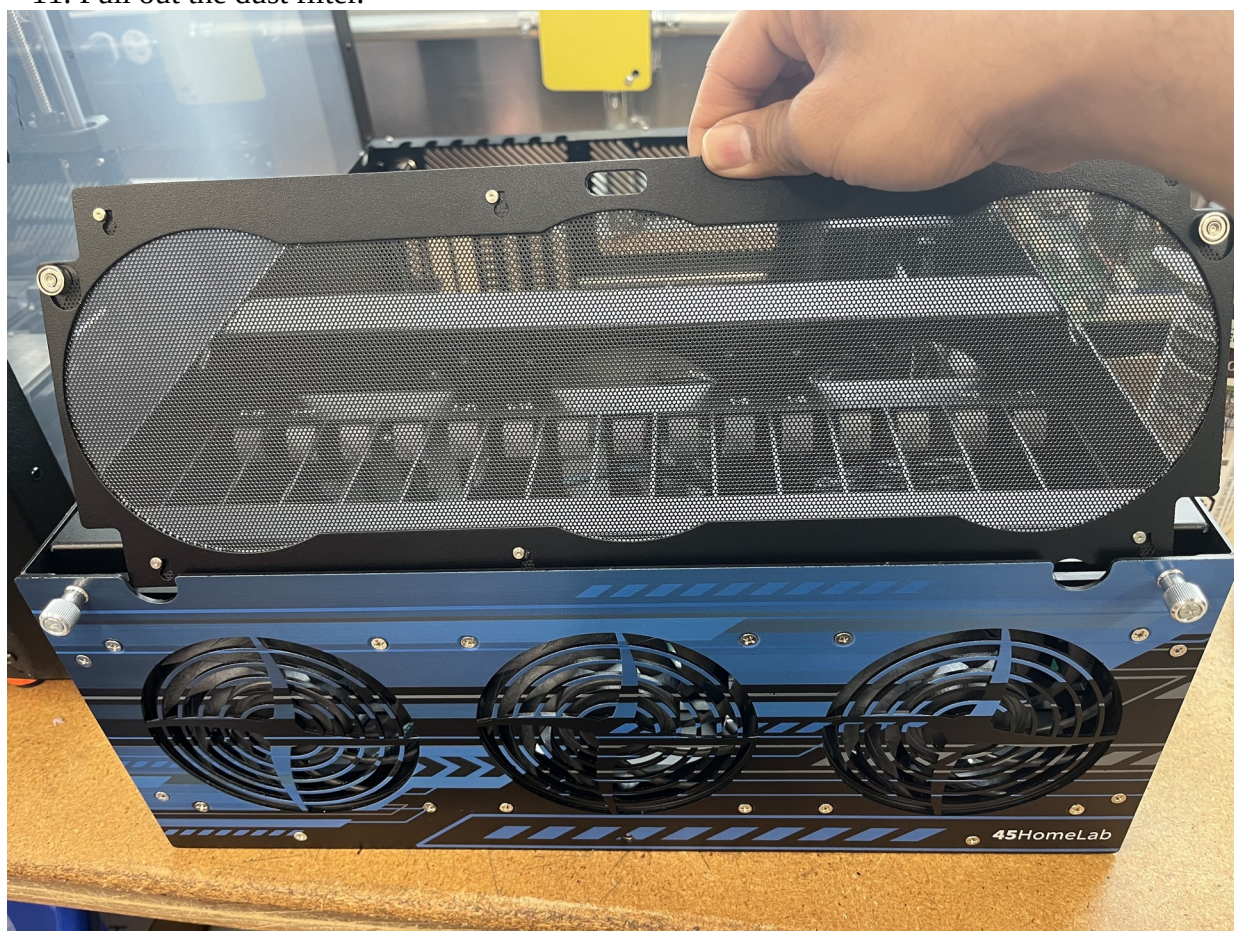
8. Remove the 12 screws securing the fans to the bracket.



9. Remove the fans from the bracket.
10. Unplug the other 3 fans from motherboard.



11. Pull out the dust filter.



12. Remove the 7 screws from the front plate.

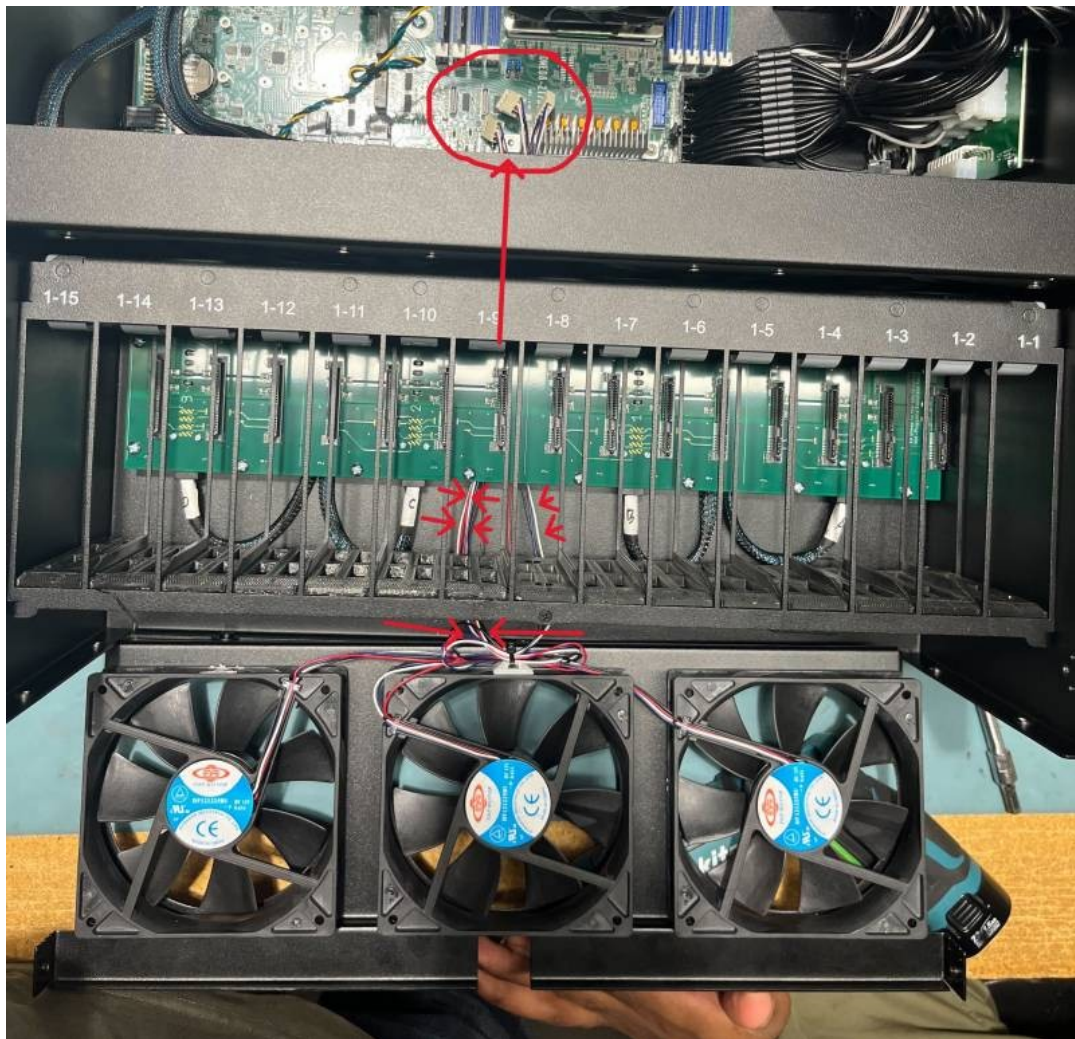


13. Unscrew the front fan bracket from either side of the Homelab chassis.

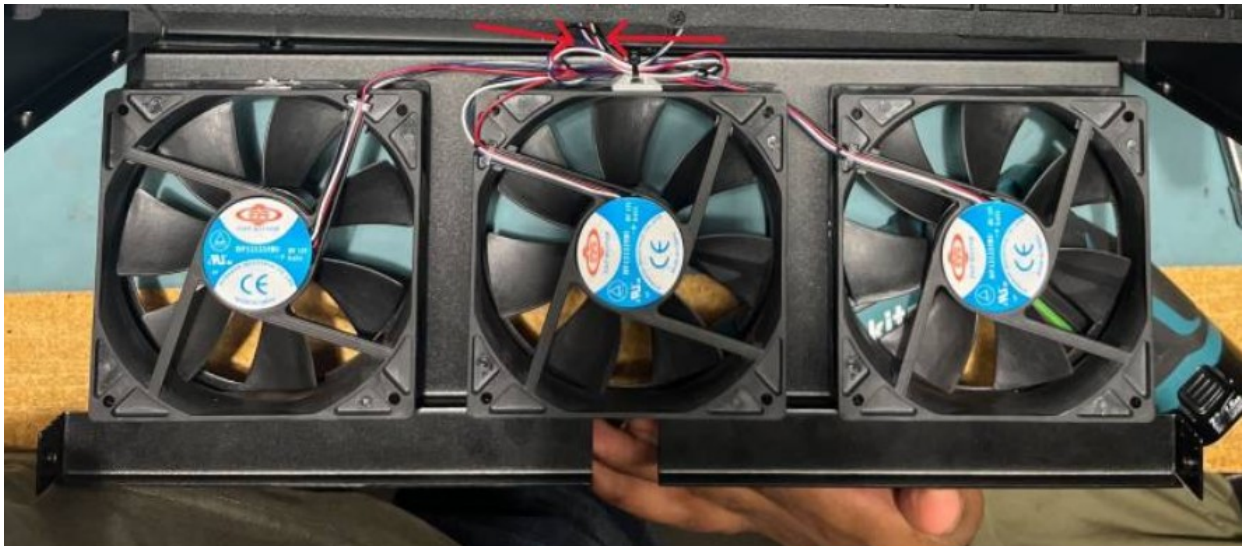


14. Slide out the front fan bracket and lay the front plate down flat.

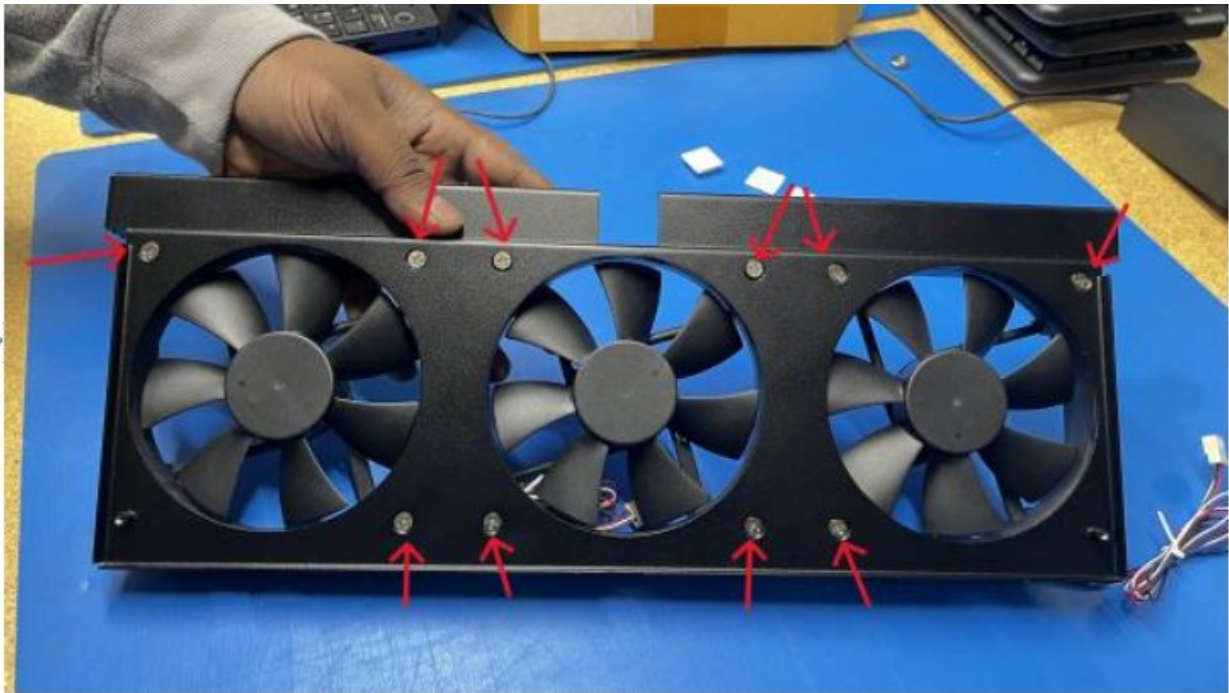
15. Pull out the three Fan wires underneath the drive cage & PCB backplane as shown



16. Cut the cable tie from tied to fan wires.



17. Unscrew the fans from the front fan bracket.

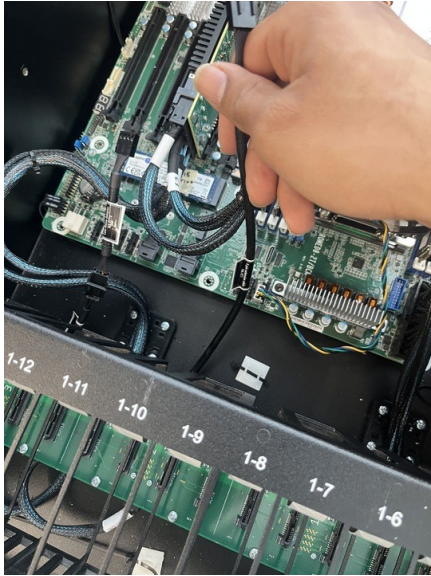


Front fan Assembly.

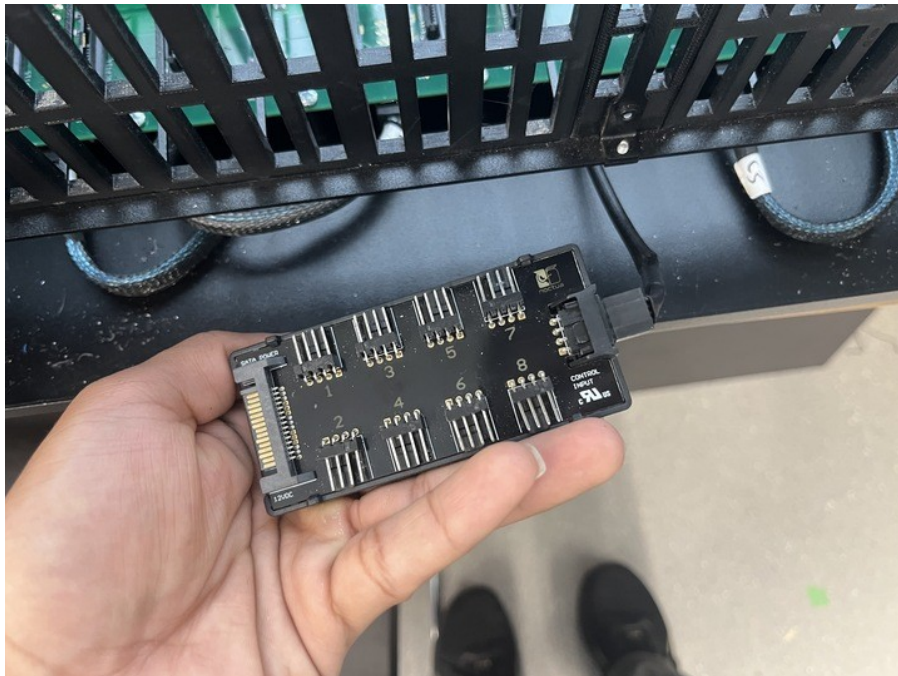
1. Retrieve Noctua Fan extension cable.



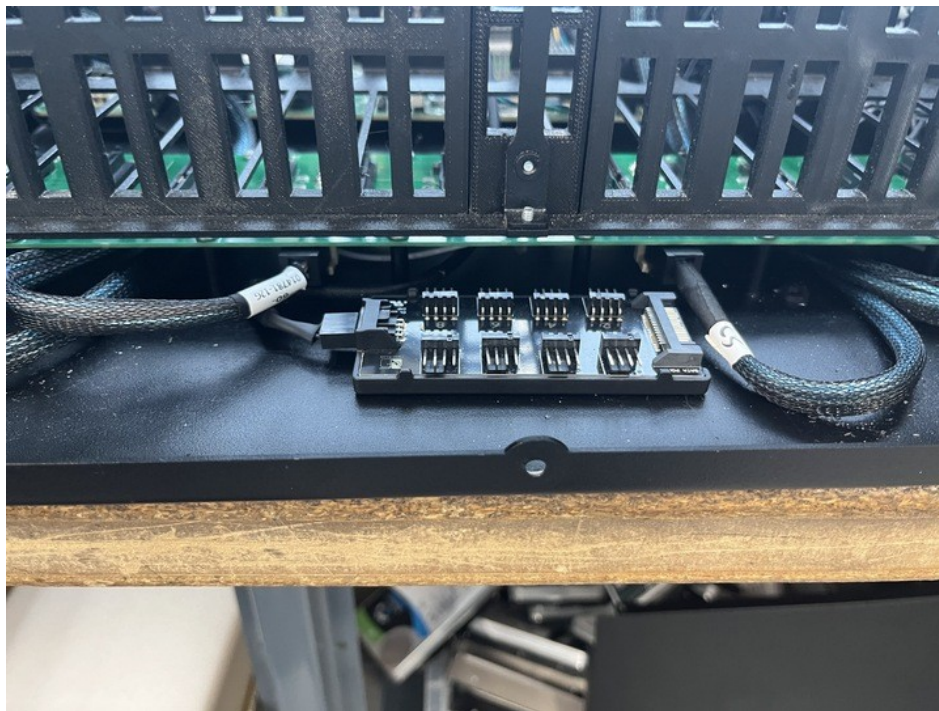
2. Slide in the cables underneath the **PCB backplane** as shown.



3. Take magnetic fan hub and connect the female end of extension cable to Fan Hub as shown.



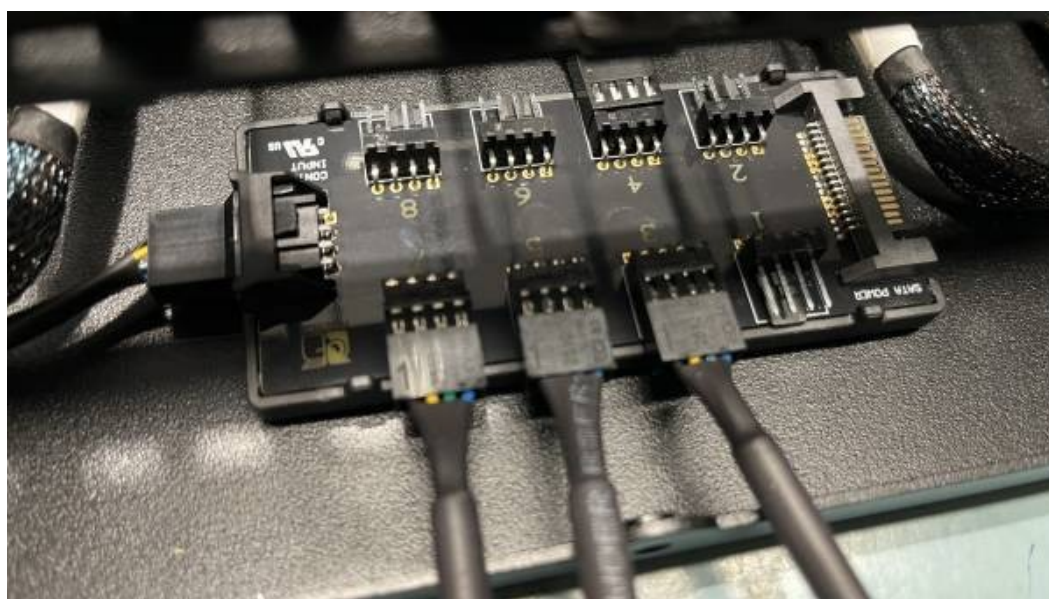
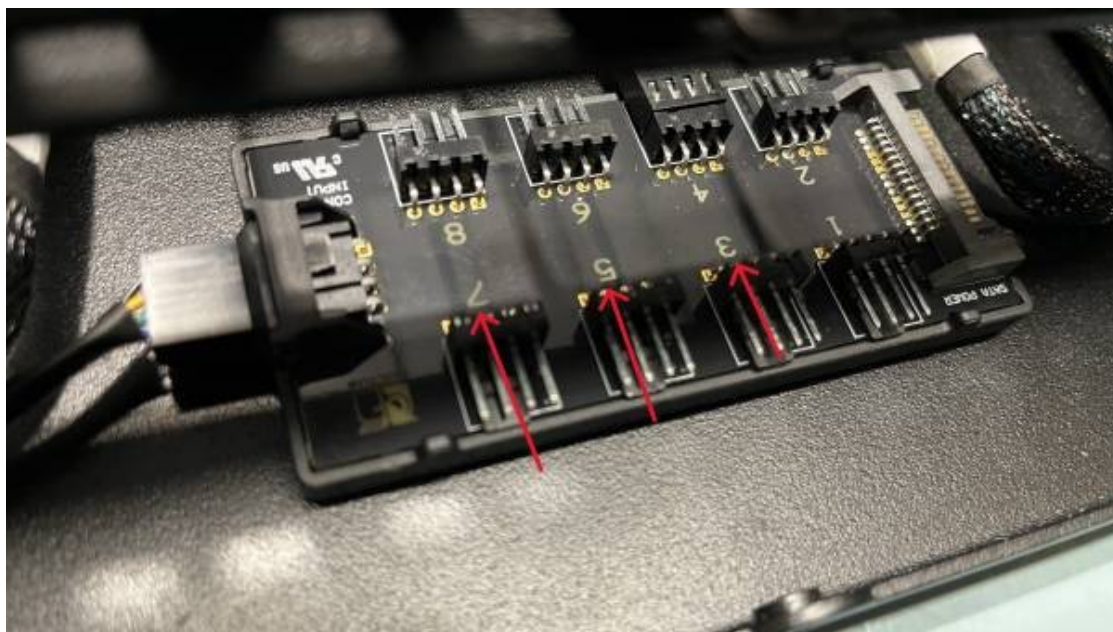
4. Place the Noctua Fan hub on the front end of the chassis back of PCB backplane as shown



5. Insert 10 x **Fan Screws** into the mounting holes from the same side as the Countersinks through the front fan bracket.
6. Get 3x Noctua 120mm Fans
7. Mount 3 fans to the front fan bracket with the vibration plates attached to the fans using screws from step two, with the wires coming from the bottom of all (3) fans.



8. Plug in 3 fan wires to **slots 3,5,7** on the **Noctua Fan Hub**.



9. Align the mounting holes on the sides of the Front Fan Bracket with the mounting holes on the sides of the Chassis



10. Insert screws in the mounting holes on the left and right side of the Chassis from the outside to fasten the Front Fan Bracket to the Chassis.

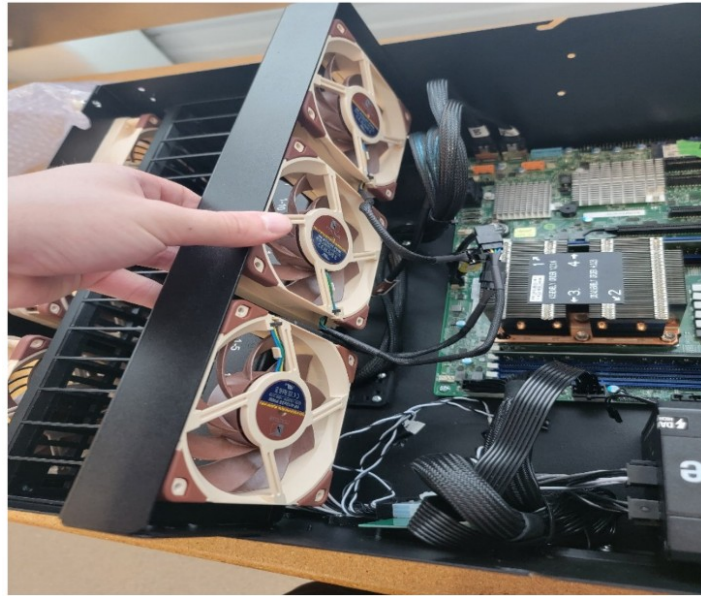


Rear fan assembly

1. Get 3x Noctua CaseFan_013 Fans.
2. Starting with the HL-15 rear fan bracket, place “Fan Screws” into all 12 mounting holes and secure all with AP-1003W-B (rubber grommet) on the red side



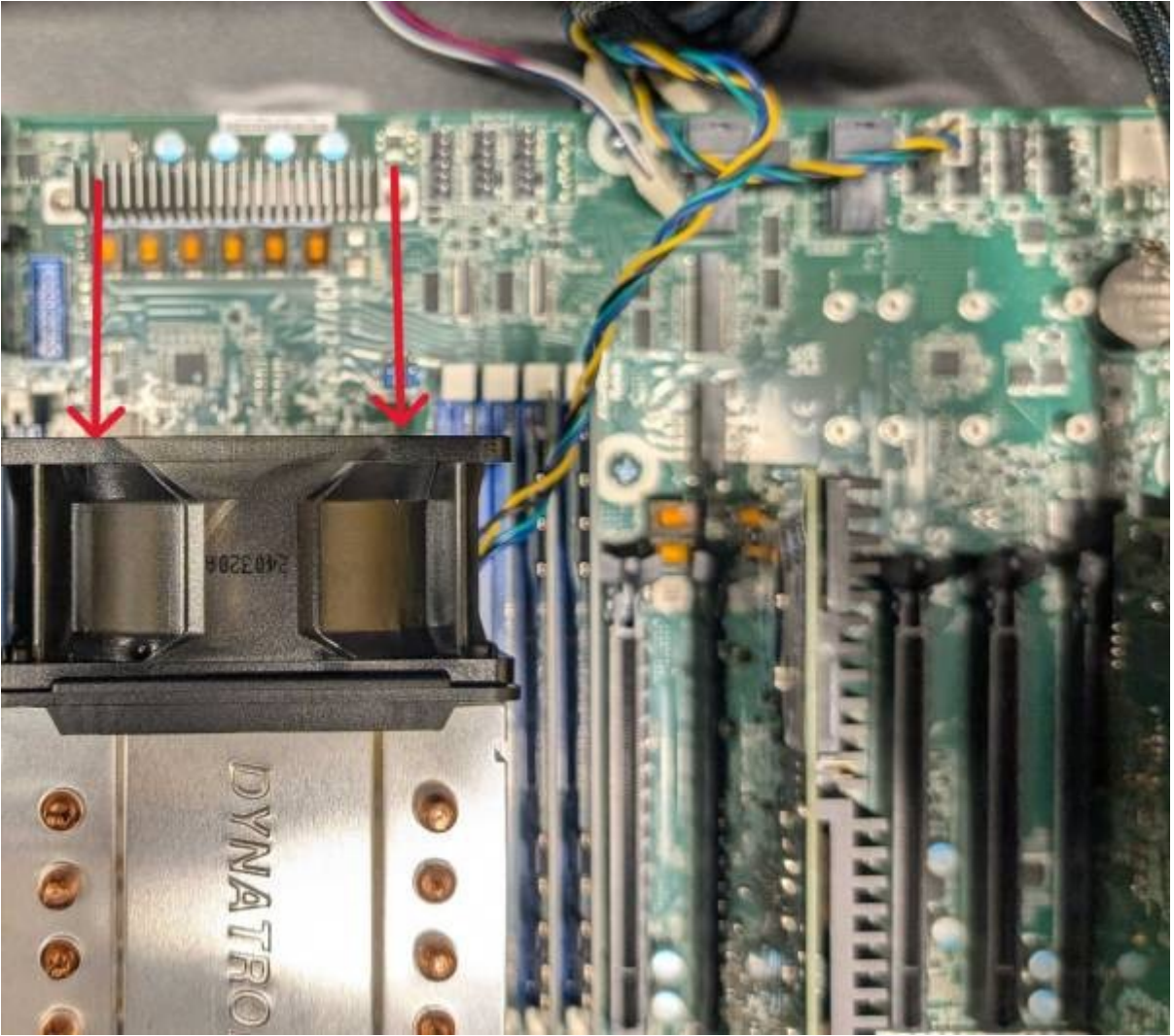
3. Slide the center bracket downwards and place it in the chassis.

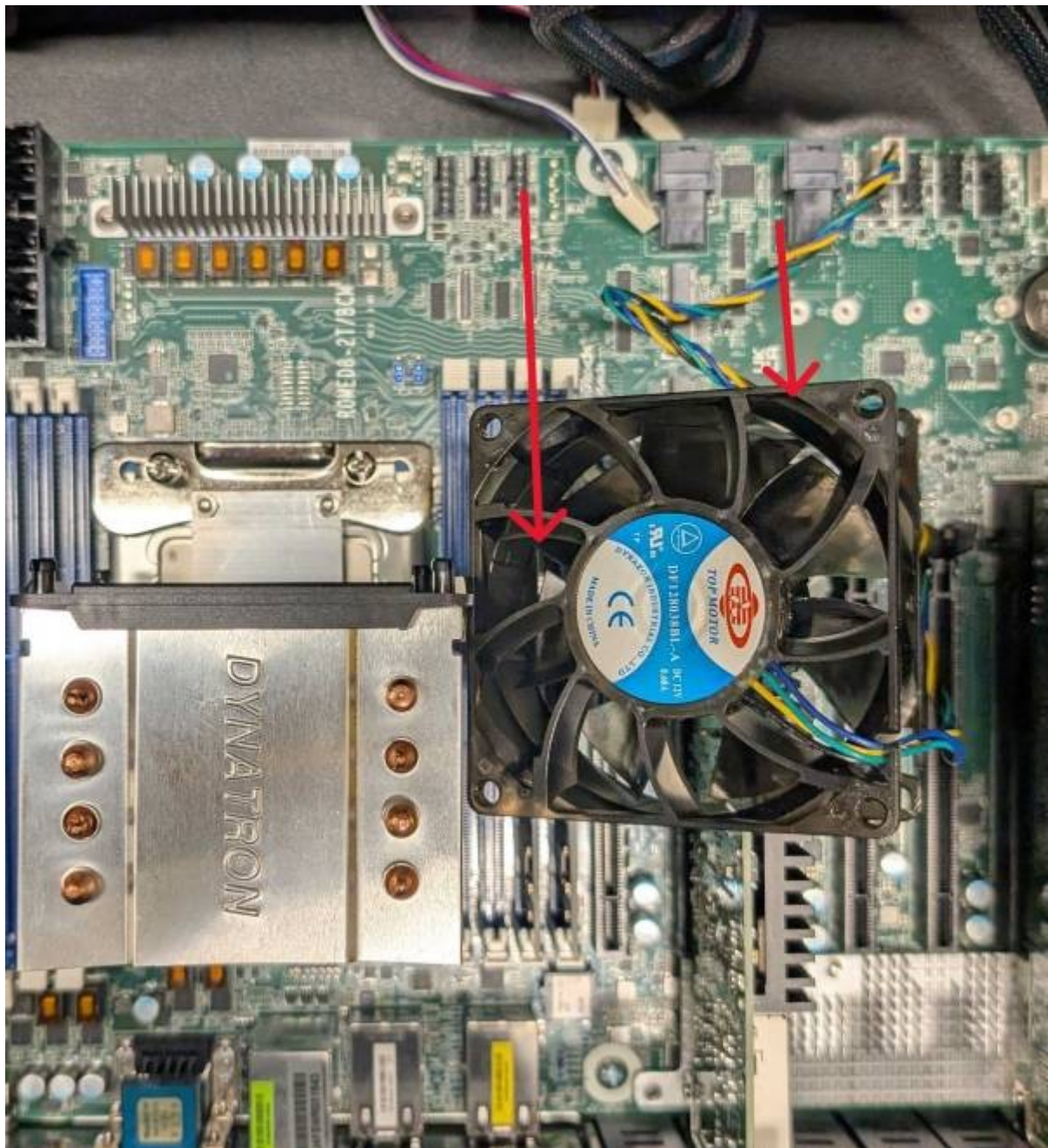


4. Once center bracket is placed into the chassis, use the 2 screws that were used previously to hold the center bracket and screw them into the chassis/center bracket to secure it into place.

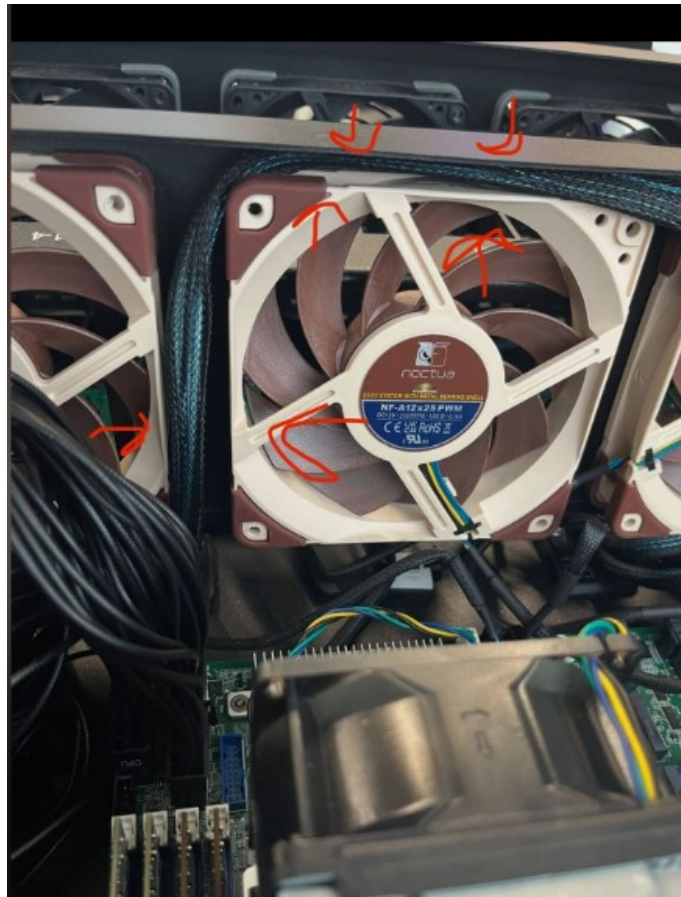


5. Disconnect the motherboard cables and move them aside as shown (disconnecting the wires and fan will make it easier to remove the 3D-printed part) or skip to step 6.

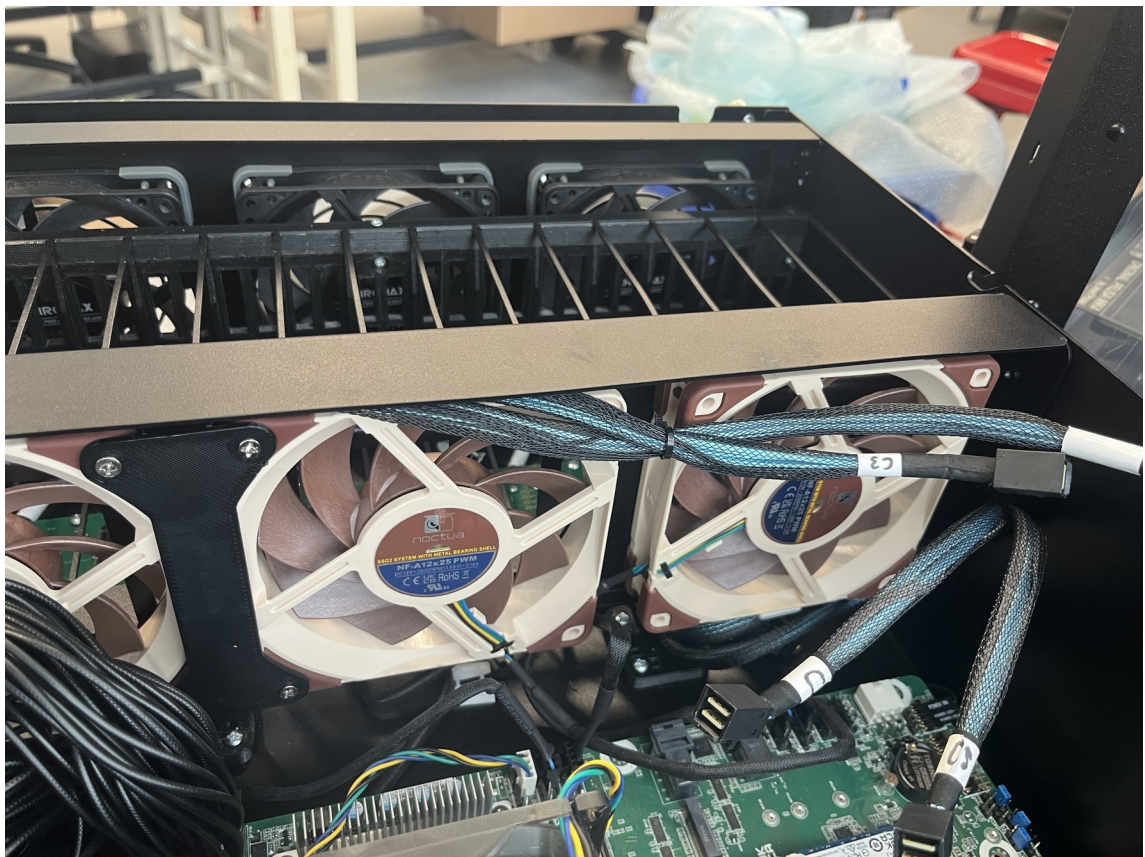




6. Route the SATA cables **A & B** through the channel in-between the fans from the other side as shown



7. Align the 3D-Printed“ part on to the holes of “Center Fan Bracket Assembly and screw it using fan screws



8. Route the other 2 cables into the **right most slot** of the center fan bracket assembly as shown.



9. The below image best represents how the all **four SATA cables** should look like.



10. Connect all the fan cables to the motherboard's fan headers.



11. Connect the Motherboards cable and Heatsink's Fan if removed.