CPU Fan

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INTRODUCTION

Follow this guide to remove and replace the CPU fan in your Framework Desktop.

The Framework Desktop supports a 120mm CPU fan with a standard 4-pin connector and a single 4-pin ARGB connector for compatible fans. **For detailed fan requirements, click here.**

If you're using your own fan, you'll need the Fan Mounting Kit, which includes the fan duct and fasteners.

This guide shows replacing a Cooler Master - Mobius 120p ARGB fan.

TOOLS:

- Framework Desktop Screwdriver (1)

Step 1 — Power down your Desktop





- Before you begin repairs, shut down your Desktop from the operating system and unplug it.
- Make sure your Framework Desktop Screwdriver has the T5 Torx bit (labeled as T5) facing outwards. If it's not, pull the bit out and flip it.

Step 2 — Remove the Handle





ⓘ If you installed the Handle on your Desktop, follow this step. Otherwise, skip it.

- Rotate the Handle's screw threads counterclockwise on both sides until it comes free.
- Remove the Handle.

Step 3 — Remove the Top Panel screws





- Use your finger to lift up the two D-rings on the Top Panel screws.

Step 4





- Use your fingers to twist the screw counter-clockwise and loosen it.
- Remove the Top Panel screw.

Step 5





- Repeat the same procedure for the other Top Panel screw.

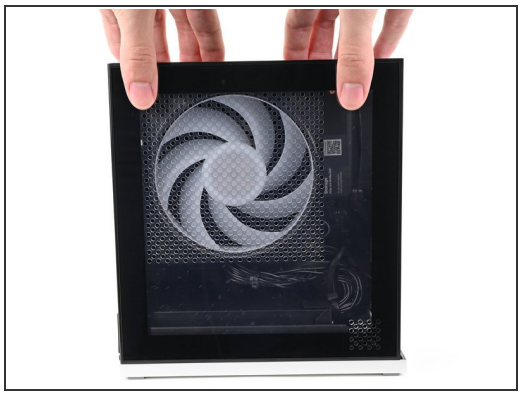
Step 6 — Remove the Top Panel





- Slide the Top Panel towards the rear of the computer to release the clips securing it to the chassis.
  - ⓘ If you're having a hard time gripping the Top Panel, use the screw holes to get a better handhold.
- Lift the Top Panel off the chassis and remove it.

Step 7 — Remove the Left Panel





- Use your fingers to grip the top of the Left Panel and slide it upward to release its clips.
- Remove the Left Panel.

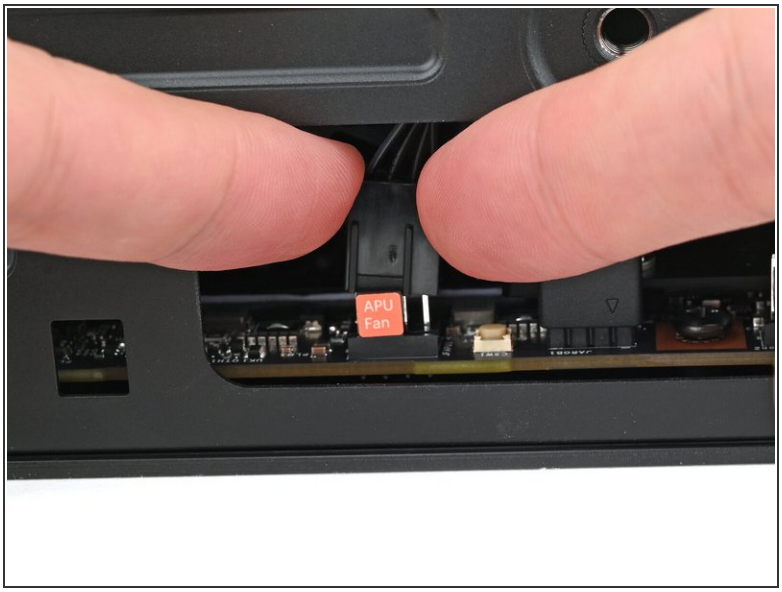
Step 8 — Lay down the Desktop




- Lay down the Desktop on its side so the fan is facing upward.

Step 9 — Disconnect the fan





- Use your fingers to lift the APU fan cable connector off its four-pronged socket on the Mainboard.

Step 10





ⓘ If you aren't using an RGB fan, then skip this step.

- Use your fingers to lift the fan RGB cable connector off its three-pronged socket on the Mainboard.

Step 11 — Remove the CPU fan screws





- Use your Framework Desktop Screwdriver to remove the four 27.3 mm-long Phillips screws securing the CPU fan and fan duct.

Step 12 — Remove the fan duct





- Lift the fan duct off the fan and remove it.

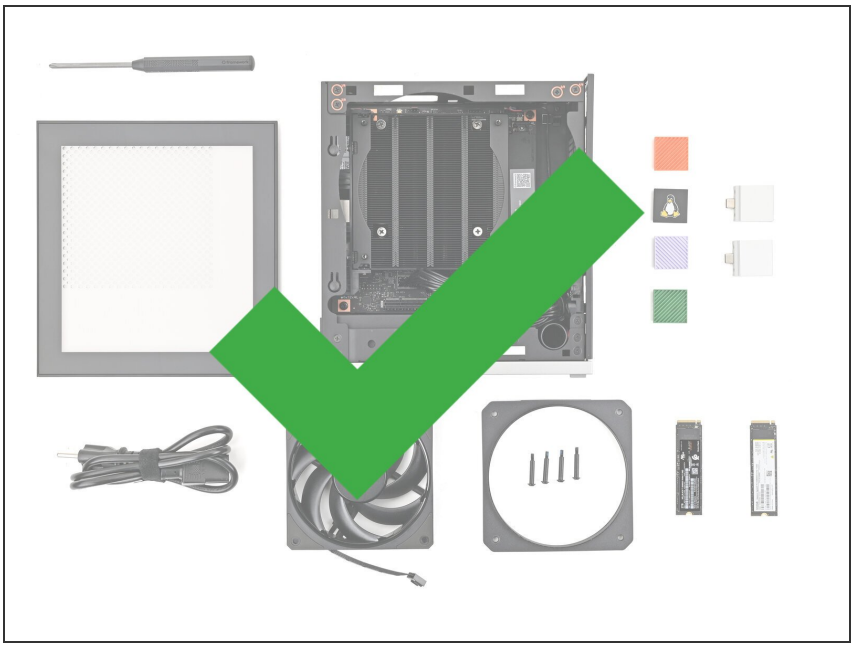
Step 13 — Remove the fan





- Lift the fan out of the chassis, making sure the cables thread through the side of the heatsink.

Step 14 — Disassembly complete



- Congratulations on completing disassembly! **The remaining steps will show how to reassemble your Framework Desktop.**

Step 15 — Insert the CPU fan





- Orient the fan so its label is facing downward and the cable(s) is pointing towards the top of the computer.
  - If your fan has an arrow indicating airflow direction, make sure it's pointed towards the heatsink.
  - If you're using a different fan, orient it such that the fan is blowing towards the heatsink, not away.
- Lay the fan on top of the heatsink, making sure the cables are routed so they poke out of the hole on the top of the computer.

Step 16





- If the cables aren't routed properly, lift the fan up slightly and use your fingers to reposition the cables over the side of the heatsink.
  - ⓘ If you're installing an RGB fan, make sure the "male" end of the RGB cable is covered and set aside in the corner of the chassis.

Step 17 — Insert the fan duct




- Lay the fan duct on top of the fan with the lip facing upward.
- Align the screw holes on the fan duct with the ones on the fan.

Step 18 — Install the fan screws





- (*if new*) Remove the fan screws from their packaging and make sure there are **four screws** total.

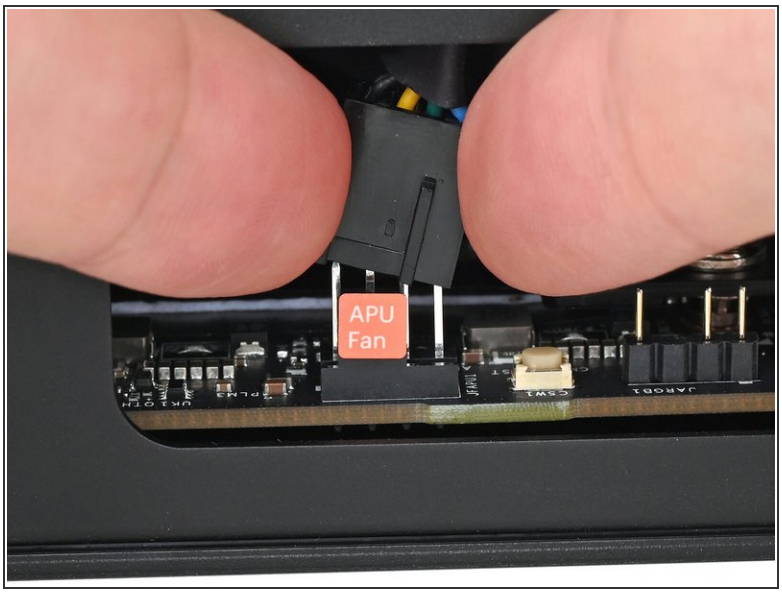
Step 19

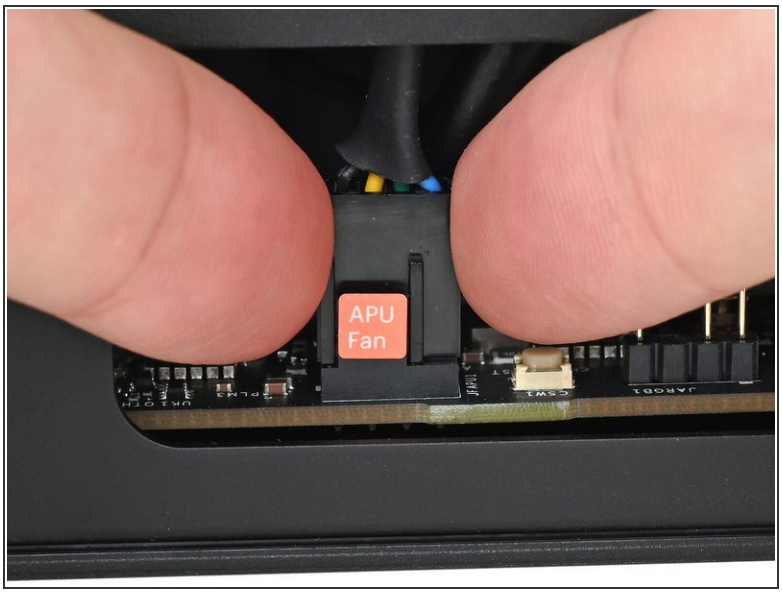




- Use your Framework Desktop Screwdriver to install the four 27.3 mm-long Phillips screws securing the CPU fan and fan duct.

Step 20 — Connect the fan





- Orient the main fan cable so its two vertical lines are facing you.
- Slide the main fan cable over the four-pronged connector labeled "APU Fan," making sure the orange label slots between the vertical lines.

Step 21 — Connect the RGB cable







ⓘ If you aren't using an RGB fan, then skip this step.

- Orient the RGB cable so the arrow is facing you.
- Use your fingers to slide the RGB cable over the three pronged connector located to the right of the "APU Fan" connector.

Step 22 — Install the Left Panel



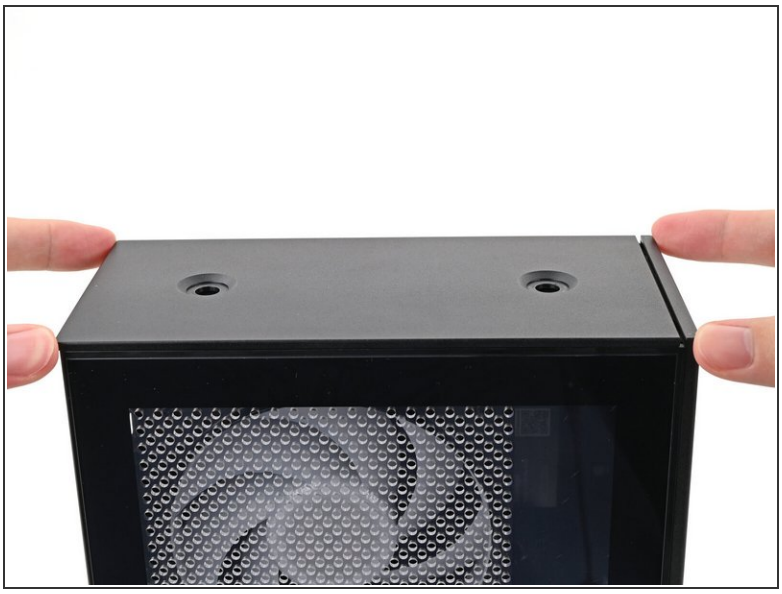
- Slide the Left Panel onto the left edge of the chassis and press it flat to ensure its clips are slotted into place.
  - ⓘ There should be a small gap between the bottom of the Left Panel and the silver base.
- Push the Left Panel towards the base of the computer to close the gap and engage the clips.

Step 23 — Install the Top Panel



- Orient the Top Panel so its arrow is pointing towards the rear of the computer.
- While holding the Top Panel at a slight downward angle, slide it across the top of the chassis (from rear to front) until you feel its clips catch.
  - ⓘ There should be a small gap between the Top Panel and the front of the Desktop.
- Lay the Top Panel flat on the chassis to align the remaining clips.

Step 24





- While securing the computer with one hand, use the other hand to slide the Top Panel towards the front of the computer to close the gap and engage the clips.

Step 25 — Install the Handle




ⓘ If you're installing the Handle on your Desktop, follow this step. Otherwise, skip it.

- Place the Handle over the Top Panel screw holes.
- While holding the Handle in place, twist the screw threads on both sides clockwise until they're snug on the Top Panel.

Step 26 — Install the top panel screws





- Insert the top panel screw into its hole and twist clockwise until it feels snug.

Step 27





- Repeat the same procedure for the other top panel screw.

Step 28





- Use your finger to close the two D-rings on the top panel screws.

You finished fixing your Framework Desktop!

Take your e-waste to an R2 or e-Stewards certified recycler.

If you need help, contact Framework support.