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How to install Advanced Filtration (CORE One)

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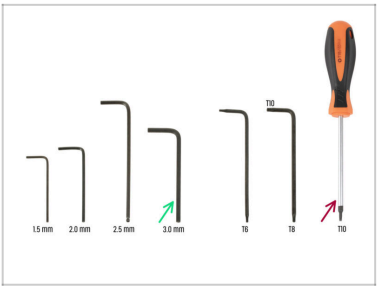
STEP 1 Introduction

- This guide will take you through the installation of the **Advanced Filtration** on your **Prusa CORE One.**
  - If you are installing the Advanced Filtration System on **Prusa CORE One L**, please follow the instructions in the corresponding manual **How to install Advanced Filtration (CORE One L)**
- All necessary parts are available in our eshop prusa3d.com.

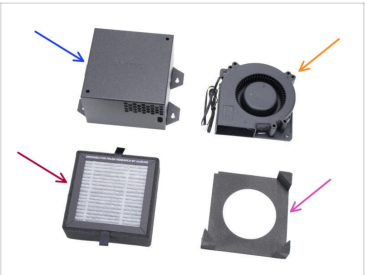
  ⓘ Note that you have to be logged in to have access to the spare parts section.

STEP 2 Tools necessary for this guide



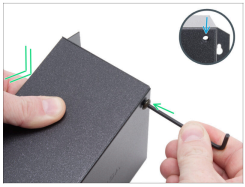
- **For this chapter, please prepare:**
- 3.0mm Allen key
- T10 torx key / T10 torx screwdriver

STEP 3 Advanced Filtration: parts preparation



- **For the following steps, please prepare:**
- Filtration case (1x)
- High Pressure Blower (1x)
- HEPA filter (1x)
- Sealing foam (1x)
- M5x6r screw (2x)
- M3x4rT screw (4x)

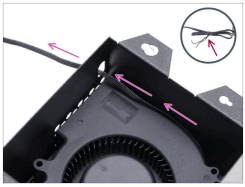
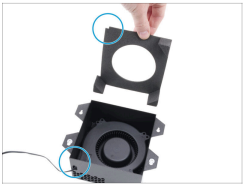
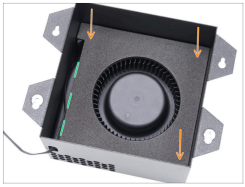
STEP 4 Installing the blower



- Insert the blower into the filtration case with the air flow opening facing the grid on the case.
- Ensure the blower cable is positioned on top and not trapped underneath.
- From underneath the filtration case, align any hole with one on the blower.
- Secure the blower with the M5x6r screw.
  - The **hole isn't threaded**, so the screw will cut its own - expect some resistance. Push on the blower from the inside to help.

  ⚠ **Do not extra overtighten**, the tapped thread may be stripped.
- Continue in the same way with the remaining hole.

STEP 5 Installing the sealing foam

- Untie the blower cable harness.

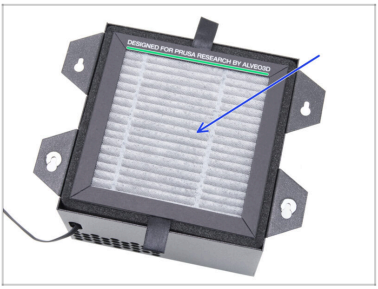
  ⓘ Don't throw away the wire tie, it will come in handy later.

- Route the blower cable next to the blower case and out through the oval hole above the grid.
- Place the sealing foam as shown, with the corner cutout aligned to the same side as the cable outlet.

  ⚠ Make sure the foam protrusions face the correct direction.

- Place the sealing foam over the blower, **ensuring the protrusions fill the corner gaps** around it.
- Check the blower cable is routed straight and fits properly inside the foam cutout.

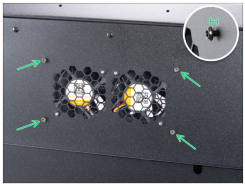
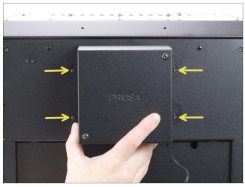
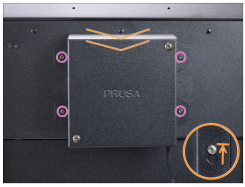
STEP 6 Inserting the HEPA filter



⚠ Remove the HEPA filter from its packaging.

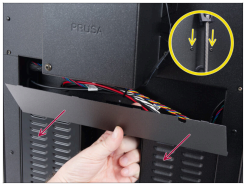
- Insert the HEPA filter into the filtration case assembly.
  - **Ensure it is oriented correctly.** Use the printed text on the filter as a guide.
- The filter must sit flush with the edges of the filtration case.

STEP 7 Mounting the filtration assembly

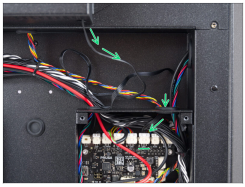
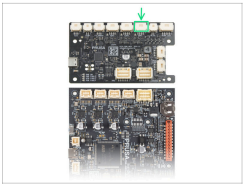
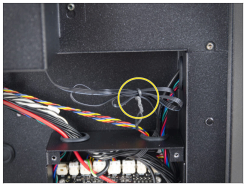
- Insert four M3x4rT screws on the back of the printer.
  - **Do not tighten the screws completely**, leave approximately a 2 mm (0.08 in) gap.
- Mount the filtration assembly onto the screws using the large holes in the assembly.
- Slide the filtration assembly downward to lock it into its final position on the screws.
- Tighten all four screws.

STEP 8 Removing the electronics covers



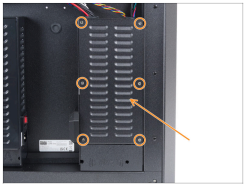
- On the inside of the printer, remove the two M3x4rT screws holding the back cover.
- On the back of the printer, remove the top cable cover from the printer.
- Release six M3x4rT screws on the xBuddy box cover.
- Slide out the xBuddy box cover and put it aside.

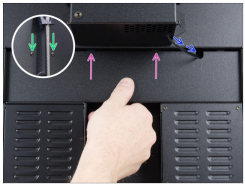
STEP 9 Connecting the blower cable

- Guide the blower cable through the right hole and connect it to the slot labeled *FAN3* on the xBuddy extension board.
- It's recommended to create a loop with the excess cable and secure it using the wire tie that came on the blower cable.

STEP 10 Covering the electronics





- Attach the xBuddy box cover to the electronics box and secure it using the six M3x4rT screws you previously removed.
- Align the rear sheet metal cover so that the cables can run through the "tray".
- Guide the blower cable through the U-shaped cutout in the cover. **Avoid pinch the cable**.
- Place the rear sheet metal cover into the recess. Push it toward the printer, then move it upward to engage it.
  - There are four tabs that should engage into the printer's chassis.

  ⚠ Ensure the blower cable is still in U-shaped cutout.

  - Secure the rear cover in place using two M3x4rT screws from inside the printer.

STEP 11 Firmware INFO

- Starting with firmware version 6.3.1, a new menu option for the *Filtration Fan* is available.

To update the firmware, please follow the dedicated instructions available at How to update firmware.

- Navigate to your printer settings: *Settings -> Chamber Filtration* and select *Chamber Filtration [none].*
- Enable *Advanced Filtration* mode or *DIY* mode if you have a custom filtration setup.
- The *Filtration Fan* option can be found in the menu:
  - **Idle mode** - *Control -> Temperature -> Filtration Fan*
  - **Printing** - *Tune -> Filtration Fan*

The *Filtration Fan* is set to *Auto* by default. This means it will automatically activate depending on the material in use.

STEP 12 Done

- **Congratulations!** You've successfully installed the Advanced Filtration on your Prusa CORE One.

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