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# 1. Introduction

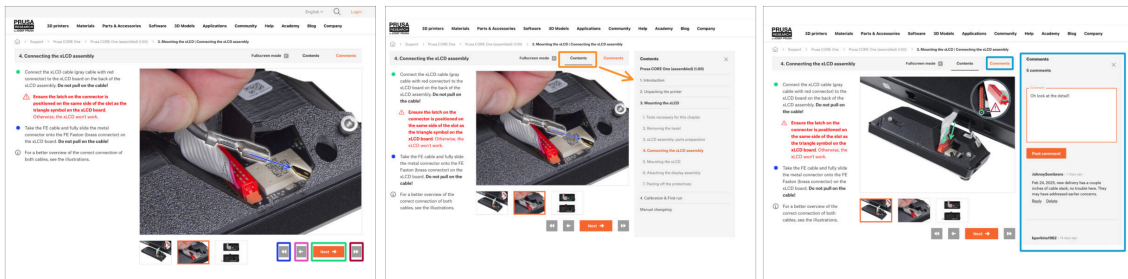









## STEP 1 Introduction



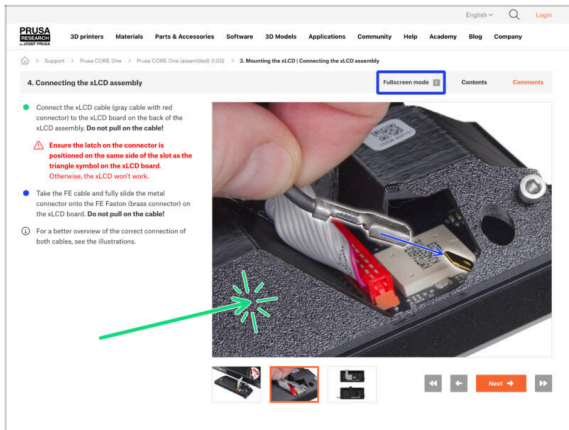
-  Welcome to the guide for unboxing, calibrating, and setting up your **Prusa CORE One**. Follow these steps to ensure your printer is ready for its first print.
-  Although the Prusa CORE One comes pre-assembled, the LCD must be installed before printing, as it is removed for transport protection.
-  **Do not install the LCD at this moment; wait for the appropriate instructions later in the guide.**
-  We recommend keeping all the packaging material in case you decide to send the printer for service.

## STEP 2 How to navigate through the manual



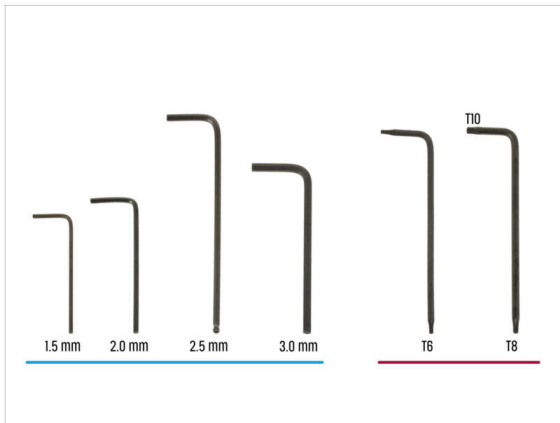
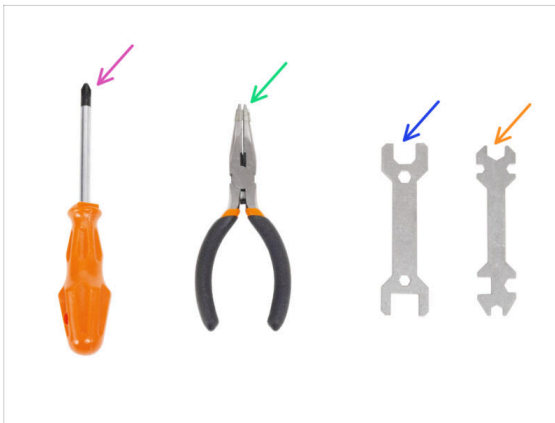
-  Use the graphical navigation buttons in the bottom right corner or the arrow keys on your keyboard:
  -  **Next button / Right arrow key** - Moves to the next image, or to the next step if it's the last image in the step.
  -  **Left arrow button / Left arrow key** - Moves to the previous image, or to the previous step if it's the first image in the step.
  -  **Play backward button / Up arrow key** - Moves to the previous step.
  -  **Play forward (Next) button / Down arrow key** - Moves to the next step.
-  Click on **Contents** to expand the full list of steps in this guide. This allows you to jump to any step regardless of the sequence.
-  Click on **Comments** to open the discussion for a specific step and leave your feedback.

## STEP 3 View high resolution images



- When you browse the guide on [help.prusa3d.com](https://help.prusa3d.com), you can view the original images in high resolution for clarity.
- Just click on the image to open it in high resolution for a detailed view.
- Click on **Fullscreen mode** or press the F key to maximize your screen space and focus entirely on the instructions.

## STEP 4 Tools included in the package



- Your Prusa CORE One package includes all the tools for printer operation and maintenance:
  - Phillips (PH2) screwdriver (1x)
  - Needle-nose pliers (1x)
  - Wrench size 13 mm (1x)
  - Universal wrench (1x)
  - Allen key set 1.5 mm - 3.0 mm
  - Torx key set T6 - T10
- You will come across the tool pack during unpacking the printer, we will let you know.
- i For this guide, you will only need the 2.5 mm Allen key.

## STEP 5 Prusa Cheatsheet



- If you're unsure whether you're using the correct screw type or size, our cheatsheet will help you. Print it at a 1:1 scale and place the fastener on the corresponding drawing to compare its type and size.

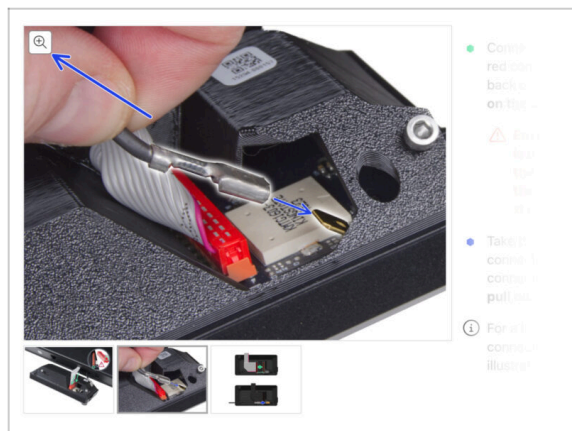


You can download the cheatsheet on [prusa.io/core-one-cheatsheet](https://prusa.io/core-one-cheatsheet).



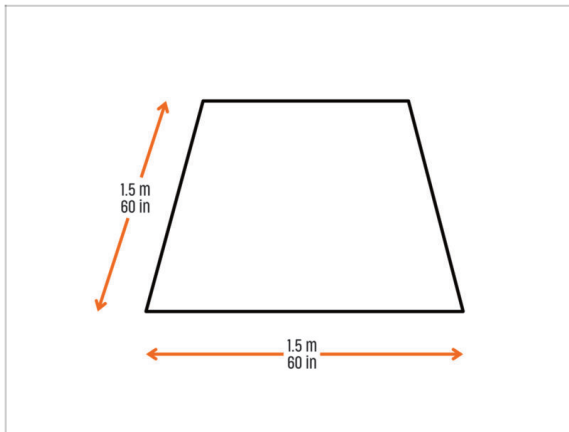
This guide doesn't involve screws or nuts, but this option may be useful for future maintenance.

## STEP 6 View high-resolution images



- When you browse the guide on [help.prusa3d.com](https://help.prusa3d.com), you can view the original images in high-resolution for clarity.
- Just hover your cursor over the image and click the Magnifier button ("View original") in the top left corner.

## STEP 7 Let's get everything set up!



**CAUTION: The package is heavy—handle it with care!**

- Make sure you have enough space to prepare the printer. **A clean space is essential.**
- ① A minimum of 1.5 x 1.5 meters (60 x 60 inches) is recommended.
- Bring your family, friends, or pets—this will be engaging!
- Continue to the next chapter: **2. Unpacking the printer.**

## 2. Unpacking the printer












### STEP 1 Preparing the package





 **CAUTION: The package is heavy—handle it with care!**

 **The package fixations and foam inserts may vary.**

- Open the package. On the top layer, you will find:
  -  Print sheet
  -  USB drive
  -  Power cord
  -  Anti-vibration bars
- Remove these items from the package and place them in a safe spot for later use.
-  Remove the cardboard protection layer.
-  Take out the Prusament cardboard box and set it aside.


### STEP 2 Removing the box




-  Remove top foam fixation.
-  Notice the two cutouts (handles) on both sides of the cardboard layer. Bend them downward.

 **CAUTION: The printer is heavy—handle it with care!**

-  Grasp both handles and **CAREFULLY** lift the printer out of the box.

 **Tip:** Ask someone to hold the bottom cardboard box in place to make it easier to lift the printer out.

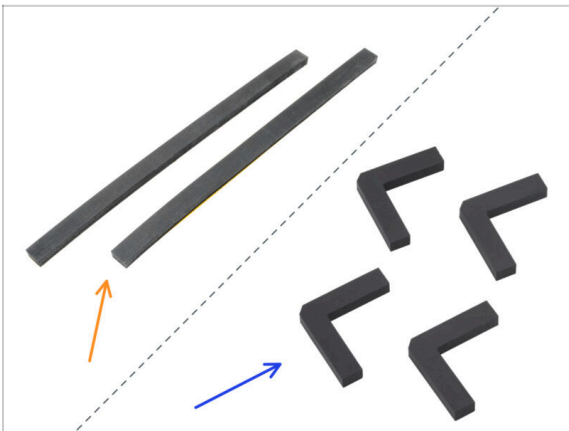
-  Place the printer on a **stable and clean surface**.

### STEP 3 Removing the cardboard layer



- Detach the two ends of the cardboard protective layer from each other by pulling the upper layer out.
- Fold down the cardboard protective layer away from the printer.

### STEP 4 Anti-vibration feet: parts preparation



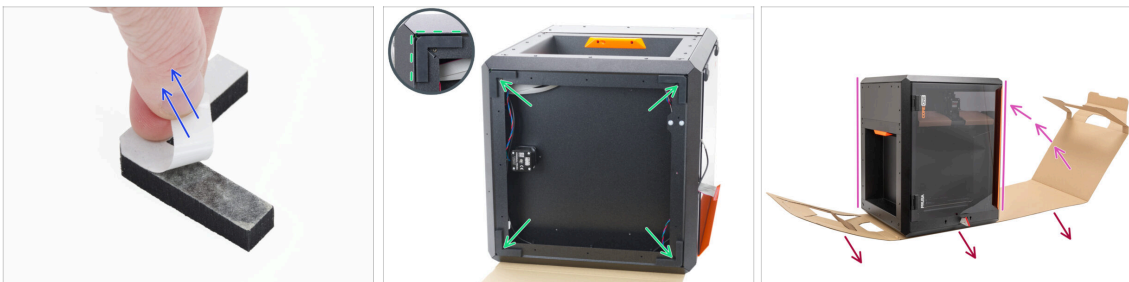
- **Note:** The Prusa CORE One ships with two different types of anti-vibration feet. **Carefully read the part name in the instructions and refer to the corresponding image for your specific type of feet:**
  - Anti-vibration bar (2x) - included in packages **until May 2025**
    - If you have this version, **proceed to the next step.**
  - Anti-vibration foot (4x) - included in packages **from June 2025** onward
    - If you have this version, **skip to [Sticking the anti-vibration feet.](#)**

## STEP 5 Sticking the anti-vibration bar



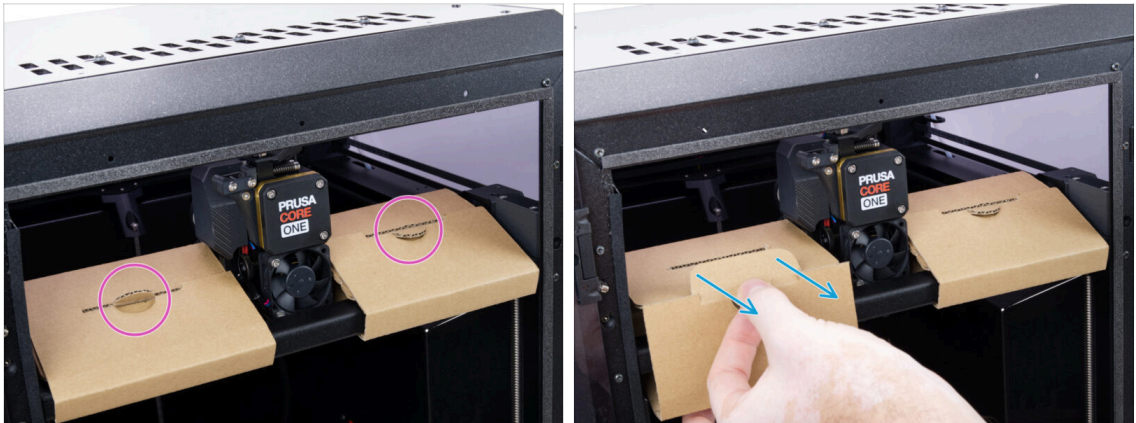
- Remove the protective film from both anti-vibration bars.
- Stick the anti-vibration bars on the underside of the profiles.
- Carefully turn the printer to its "natural standing position" with the orange door handle on the right side.
- Now, you can completely remove the cardboard layer from the printer.
- Now, skip to **Removing the inside protections**.

## STEP 6 Sticking the anti-vibration feet



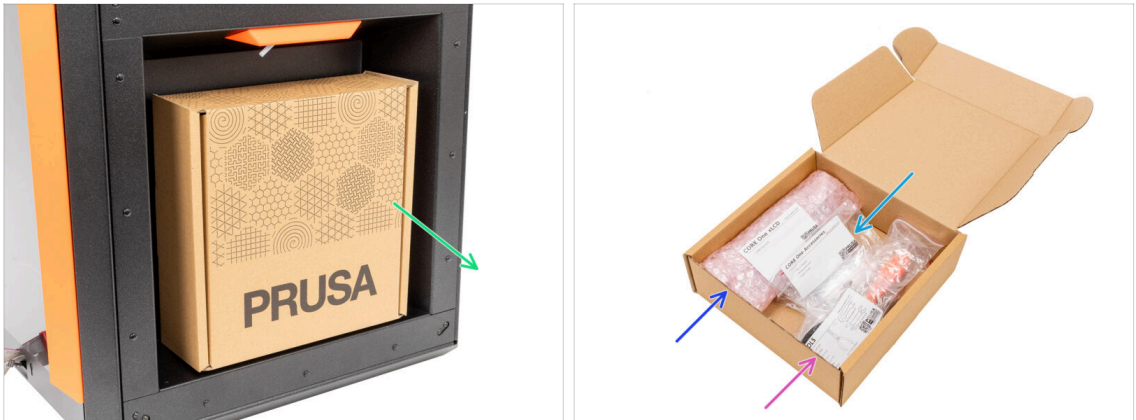
- Peel off the protective film from all anti-vibration feet.
- Stick one anti-vibration foot in each corner of the frame. Align it with the outer edge of the flat side of the profile.
- Carefully turn the printer to its "natural standing position" with the orange door handle on the right side.
- Now, you can completely remove the cardboard layer from the printer.

## STEP 7 Removing the inside protections



- Open the door.
- Locate two cardboard fixtures on the X-axis. There is a notch that releases the fixation.
- Pull the notch, release, and remove the fixture.
- Using the same method, remove the second fixture.

## STEP 8 Preparing the Tool pack

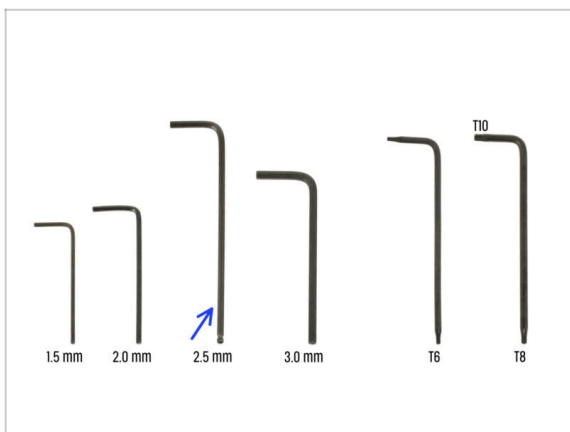


- The tool pack is located on the right side of the printer.
- Remove the cardboard tool pack from the printer.
- Open the tool pack completely. **Inside, you will find:**
  - xLCD assembly package
  - Accessories
  - Tools package - contents are described in the first chapter
- Keep the content aside for later use. Now let's go to the next chapter: **3. Mounting the xLCD**

### 3. Mounting the xLCD



#### STEP 1 Tools necessary for this chapter



- For this chapter, please prepare:
- 2.5mm Allen key

#### STEP 2 Removing the bezel



- Open the door fully.
- Lift the right end of the front bezel and unhook it from the printer frame.
- Pull the bezel out of the printer. Do not discard the part.
- ⚠ Proceed carefully to avoid scratching the parts or damaging the door.**
- i** The bezel is attached to the printer with magnets, making it easy to remove.
- Note the cables coming from the printer. We'll address them shortly. **Avoid pushing them into the printer, keep them as they are.**



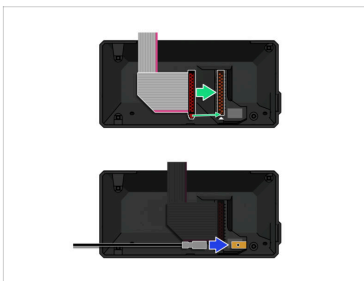
### STEP 3 xLCD assembly: parts preparation



● For the following steps, please prepare:

- xLCD assembly (1x)

### STEP 4 Connecting the xLCD assembly



- Connect the xLCD cable (gray cable with red connector) to the xLCD board on the back of the xLCD assembly. **Do not pull on the cable!**
  - ⚠ **Ensure the latch on the connector is positioned on the same side of the slot as the triangle symbol on the xLCD board. Otherwise, the xLCD won't work.**
- Take the FE cable and fully slide the metal connector onto the FE Faston (brass connector) on the xLCD board. **Do not pull on the cable!**
- ① For a better overview of the correct connection of both cables, see the illustrations.

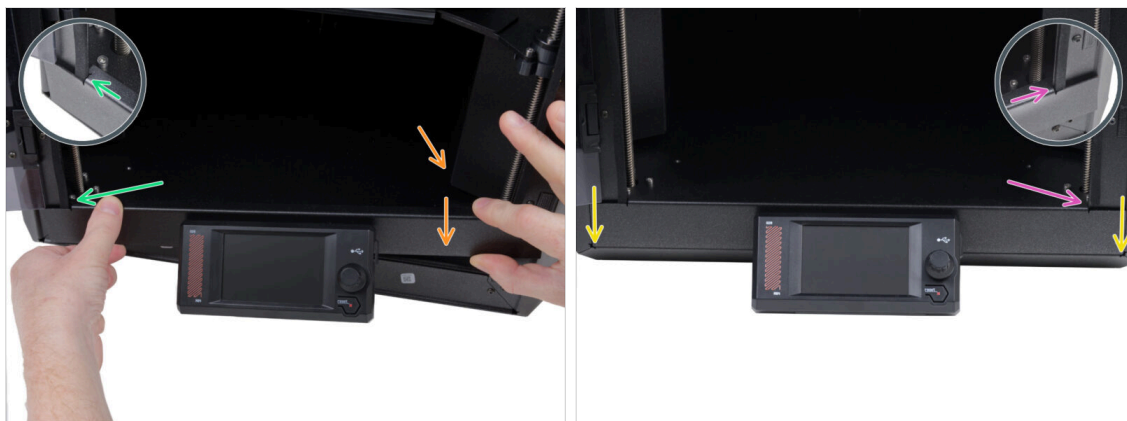
## STEP 5 Mounting the xLCD



- ✿ Install the bezel onto the screws on the back of the xLCD assembly.
- ✿ **Ensure the magnets face upward.** The bezel has four magnets, but only two are visible in the picture.
- ⬛ **Ensure both screws (M3x6) are not fully tightened,** leaving approximately a 3 mm (1/8 inch) gap between the screw head and the xLCD cover.
- ✿ Slide the bezel toward you, ensuring both screws are positioned at the end of the keyhole-shaped holes.
- ✿ Keep the bezel in position and fully tighten both screws.



## STEP 6 Attaching the display assembly



- Carefully install the display assembly (xLCD and bezel) onto the printer using the following procedure:

⚠ **Proceed carefully** to avoid scratching the parts or damaging the door.

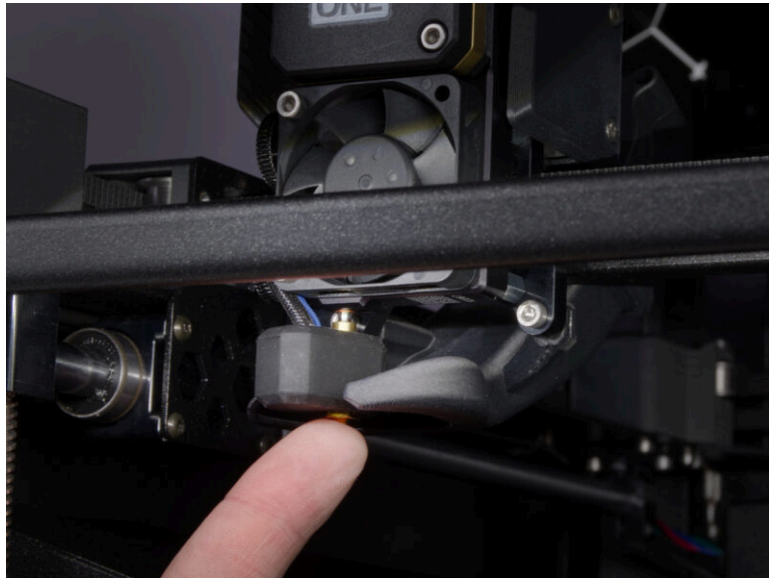
- Hook the left side of the bezel onto the left frame of the printer, ensuring the square cutout is securely attached to the frame.
- Slowly lower the right side into place as well.
- Secure the right side of the bezel onto the right frame of the printer, ensuring the square cutout is securely attached to the frame.
- Ensure the **bezel is evenly seated at both ends along the bottom edge** — test it by closing the door slowly to check if the bezel obstructs movement.

## STEP 7 Peeling off the protectives



- Now, you can remove the protective films from the transparent panels on the printer.
- The protective film is located on the top, left, and right sides of the printer.
- We are almost there! Let's go to the last chapter: **4. Calibration & First run**

## 4. Calibration & First run



## STEP 1 Attaching the print sheet



**i** This chapter will guide you through calibrating and preparing the printer for its first run.

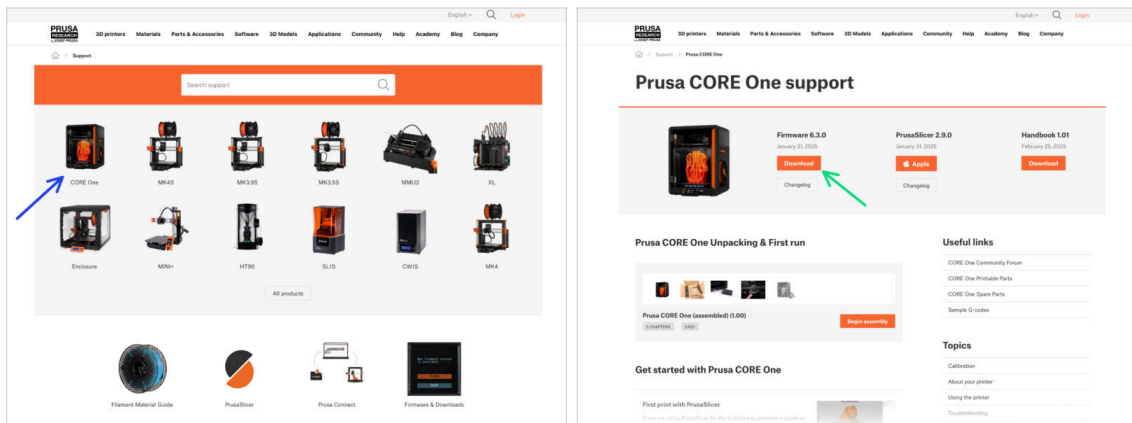
**!** **Make sure there is nothing on the heatbed.** The heatbed must be clean. Any dirt can damage the surface of both the heatbed and the print sheet.

**■** **Attach the sheet by first aligning the rear cutout with the locking pins on the back of the heated bed.** Hold the sheet by the front two corners and slowly lay it down onto the heated bed - **watch your fingers!**

**■** Keep the **print sheet** clean for optimum performance.

**■** #1 cause of prints detaching from the print surface is a greasy print sheet. **Use IPA (Isopropyl alcohol) to degrease it** if you have touched its surface before.

### STEP 2 Firmware update



- ❗ All shipped printer packages include a USB drive with the latest firmware. However, it is recommended to check and possibly upgrade the firmware version.
- 🔗 Visit the [help.prusa3d.com](https://help.prusa3d.com) page.
- 🔗 Navigate to the Prusa CORE One page.
- 📁 Save the firmware file (.bbf) onto the bundled USB drive.
- ❗ Pro tip: To access Prusa CORE One homepage you can use the URL: [prusa.io/coreone](https://prusa.io/coreone)

### STEP 3 Turning it ON



- 🔗 Insert the USB drive included in your kit into your printer.
- ❗ The included USB drive contains the latest firmware file.
- 🔗 Connect the power cable and plug the printer into a wall outlet.
- 🔗 Turn the printer on using the switch on the back.
- ❗ The printer will now detect if a new firmware file is available on the USB drive.
- 🔗 If the "New firmware available" screen appears, hit **FLASH** by pressing the rotary knob to upgrade to the latest firmware.
- 🔗 If no such message appears, the printer is running the latest firmware already. Proceed to the next step.

### STEP 4 Setting up the printer: Intro



- The printer displays on the screen a prompt to select your language. Use the control knob or touchscreen to set your preference.
- After selecting your language, the printer will display the welcome screen. Hit **OK** to continue through the setup process.
- The next screen will prompt you to select your printer model. Since the assembled Prusa CORE One is fully tested in our facility, it has been pre-selected to COREONE during these tests. Hit **Done** to continue.

### STEP 5 Setting up the printer: Network setup



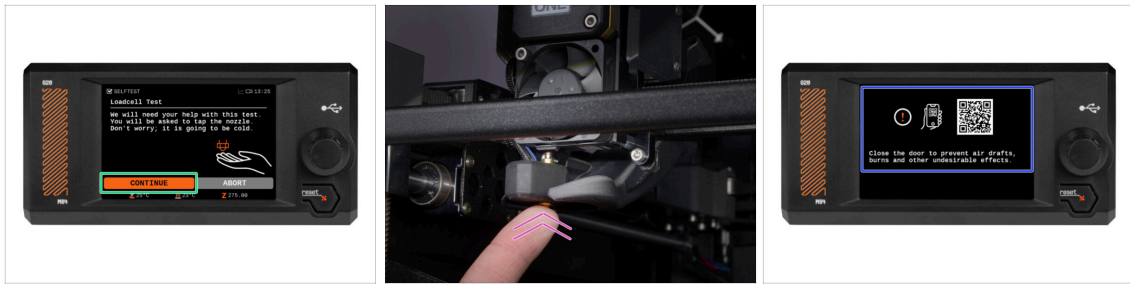
- The Network Setup screen will ask you to connect to a Wi-Fi network using our official Prusa mobile app.
  - ① Read more on [prusa.io/app](https://prusa.io/app).
- If you select **No**, the printer will show alternative ways to connect to Wi-Fi. This step is optional and can be done later.
  - ① You can skip this screen and set up the network connection later.

## STEP 6 Wizard: Intro



- i** The printer will prompt you to run self-tests and calibrations for all important components. The entire process takes a few minutes, with some parts requiring direct user interaction.
- ◆** Although the printer was thoroughly tested at our facility, we highly recommend running the self-test again. Hit **YES** to start the self-test.
- ⚠** **Warning:** During the self-test, **keep the door closed** until you are prompted. Opening the door will interrupt the process.
- There are **HOT** and moving parts inside during the self-test.
- ⚠** **Caution:** Some parts of the Wizard, such as fan testing and axis calibration, **may be loud**.
- ◆** The printer will begin by testing all the fans. **Be aware—it will be quite noisy for a while!**

## STEP 7 Wizard: Loadcell Test



- The next step of the wizard will prompt you to touch the nozzle to test and calibrate the Loadcell. During this procedure, the **parts of the printer are not heated up** so that you can touch them. Hit **Continue**.
- i Loadcell calibration requires the door to be open, as you must interact directly inside the printer.
- Do not touch the nozzle yet, wait until prompted by the **Tap nozzle NOW** message.
- Tap the nozzle from below. In case the Loadcell does not detect the touch, you will be prompted to repeat the step. Otherwise, you will see **Loadcell test passed OK** when it succeeds.
- To allow the printer to continue with the Wizard, **close the door**.

## STEP 8 Wizard: Gearbox Alignment



- The next screen will prompt you to perform gearbox calibration. This step is not necessary for pre-assembled printers from our company.
- Hit Skip to continue.

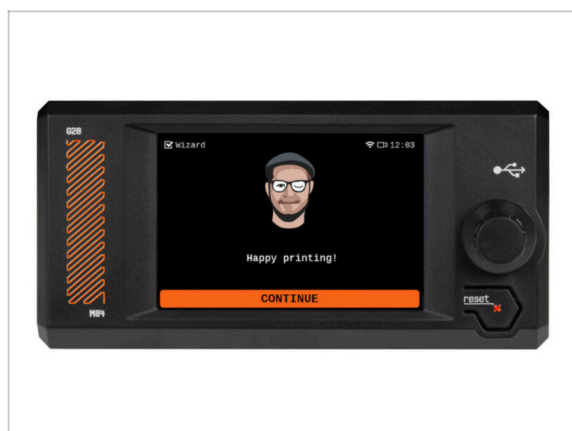


## STEP 9 Wizard - Filament Sensor Calibration



- ◆ During the filament sensor calibration, you will need to use a short piece of filament. Prepare the filament and select **Continue**.
- ❗ There should be no filament inside the extruder before the calibration process starts.
- ◆ Place a spool of filament onto the spool holder on the right side of the printer.
- ◆ When prompted, begin inserting the filament into the PTFE tube located beneath the right handle.
- ◆ Remove the filament after the calibration finishes.

## STEP 10 Wizard complete



- ◆ Congratulations! The Wizard is complete. Now it's time to test some prints.



### STEP 11 Handbook



- Read the **3D Printing Handbook** dedicated to your printer and follow the instructions to set up the printer and prepare it for your first print.

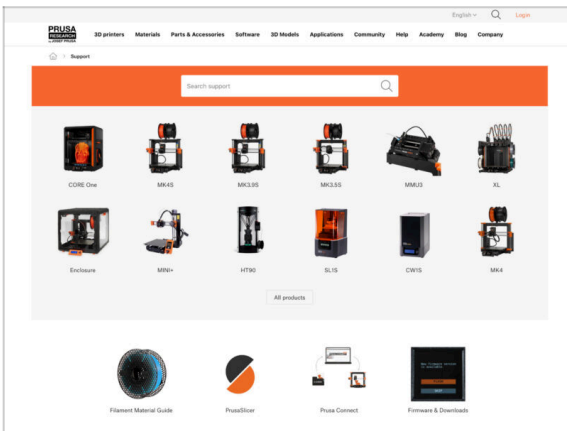


The latest version is always available at [help.prusa3d.com](https://help.prusa3d.com).



**Read the Disclaimer and Safety instructions chapters.**

### STEP 12 Prusa knowledge base

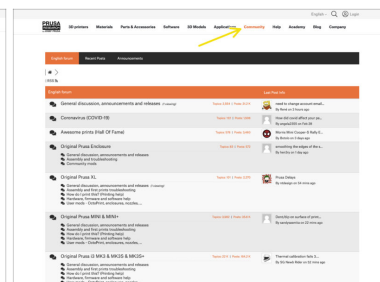
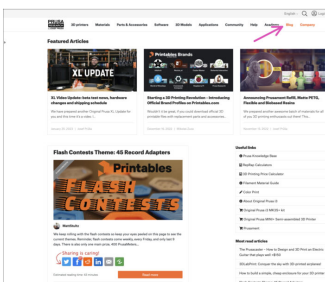
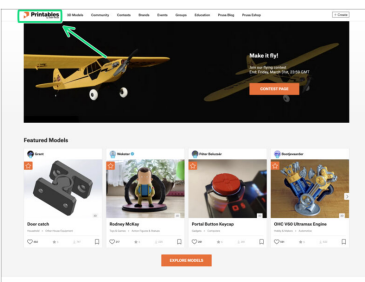


If you encounter any problems at all, don't forget you can always check out our knowledge base at [help.prusa3d.com](https://help.prusa3d.com)



We're adding new topics every day!

### STEP 13 Join Printables!



- Don't forget to join the biggest Prusa community! Download the latest models in STL or G-code tailored for your printer. Register at [Printables.com](https://printables.com)
- Looking for inspiration on new projects? Check our blog for weekly updates.
- If you need help with the build, check out our forum with a great community :-)
- All Prusa services share one user account.

# Manual changelog

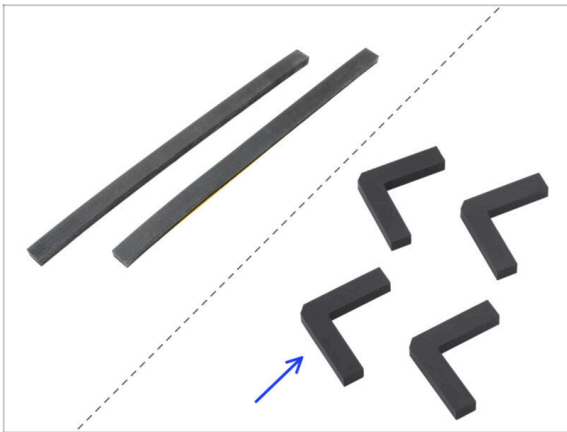


## STEP 1 Version history



- **Versions of the Prusa CORE One (assembled) manual:**
- 01/2025 - Initial version 1.00
- 06/2025 - Updated to version 1.01

## STEP 2 Changes to the manual (1)



- 06/2025 - Anti-vibration feet
  - Updated assembly steps to differentiate between two anti-vibration feet types: 2x bars (included until May 2025) and 4x feet (included from June 2025).
- ① Manual version 1.01

## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for writing. The background is a clean, solid white color. There are no margins, text, or other markings present on the sheet.

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## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for handwriting or typing. The background is a clean, solid white color.

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## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for writing. The background is a clean, solid white color. There are no margins, text, or other markings present on the sheet.