

# Table of Contents

|                                                 |    |
|-------------------------------------------------|----|
| <b>1. Introduction</b>                          | 3  |
| Step 1 - Introduction                           | 4  |
| Step 2 - How to navigate through the manual     | 5  |
| Step 3 - View high resolution images            | 5  |
| Step 4 - Tools included in the package          | 6  |
| Step 5 - Prusa Cheatsheet                       | 7  |
| Step 6 - Let's get everything set up!           | 7  |
| <b>2. Unpacking the printer</b>                 | 8  |
| Step 1 - Preparing the package                  | 9  |
| Step 2 - Removing the box                       | 9  |
| Step 3 - Removing the cardboard layer           | 10 |
| Step 4 - Anti-vibration feet: parts preparation | 10 |
| Step 5 - Sticking the anti-vibration feet       | 11 |
| Step 6 - Removing the inside protections        | 11 |
| Step 7 - Preparing the Tool pack                | 12 |
| <b>3. Mounting the xLCD</b>                     | 13 |
| Step 1 - Tools necessary for this chapter       | 14 |
| Step 2 - Removing the bezel                     | 14 |
| Step 3 - xLCD assembly: parts preparation       | 15 |
| Step 4 - Connecting the xLCD assembly           | 15 |
| Step 5 - Mounting the xLCD                      | 16 |
| Step 6 - Attaching the display assembly         | 17 |
| Step 7 - Peeling off the protectives            | 17 |
| <b>4. Calibration &amp; First run</b>           | 18 |
| Step 1 - Print sheet and spool holder           | 19 |
| Step 2 - Firmware update                        | 19 |
| Step 3 - Turning it ON                          | 20 |
| Step 4 - Setting up the printer: Intro          | 20 |
| Step 5 - Setting up the printer: Network setup  | 21 |
| Step 6 - Wizard: Intro                          | 22 |
| Step 7 - Wizard: Loadcell Test                  | 23 |
| Step 8 - Wizard: Gearbox Alignment              | 23 |
| Step 9 - Wizard - Filament Sensor Calibration   | 24 |
| Step 10 - Wizard complete                       | 24 |
| Step 11 - Handbook                              | 25 |
| Step 12 - Give us feedback                      | 25 |
| Step 13 - Prusa knowledge base                  | 26 |
| Step 14 - Join Printables!                      | 26 |
| <b>Manual changelog</b>                         | 27 |
| Step 1 - Version history                        | 28 |



# 1. Introduction

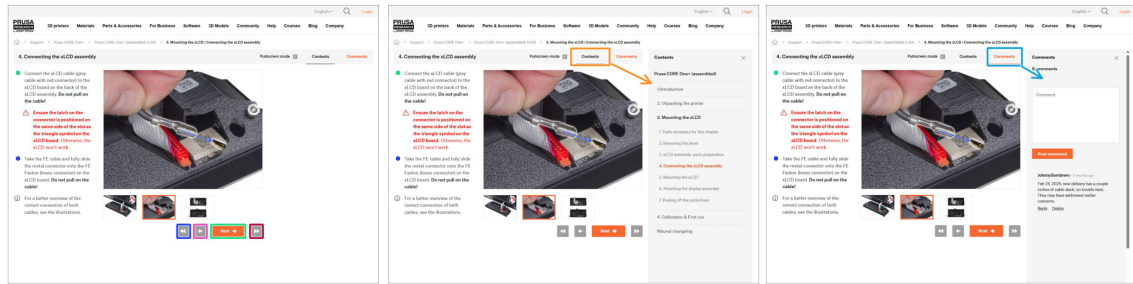


## STEP 1 Introduction



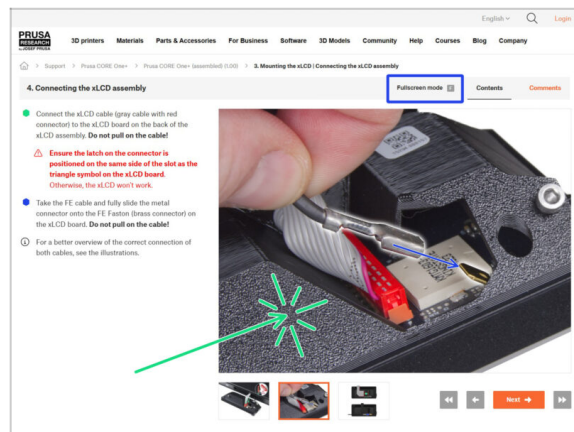
- Welcome to the guide for unboxing, calibrating, and setting up your **Prusa CORE One+**. Follow these steps to ensure your printer is ready for its first print.
- ① Although the Prusa CORE One+ comes pre-assembled, the LCD must be installed before printing, as it is removed for transport protection.
- ⚠ **Do not install the LCD at this moment;** wait for the appropriate instructions later in the guide.
- ⚠ **Do not discard the packaging!** Keep the original packaging and protective foam. The product, or any of its parts, must be packed in these for service or warranty shipping to prevent damage.

## STEP 2 How to navigate through the manual



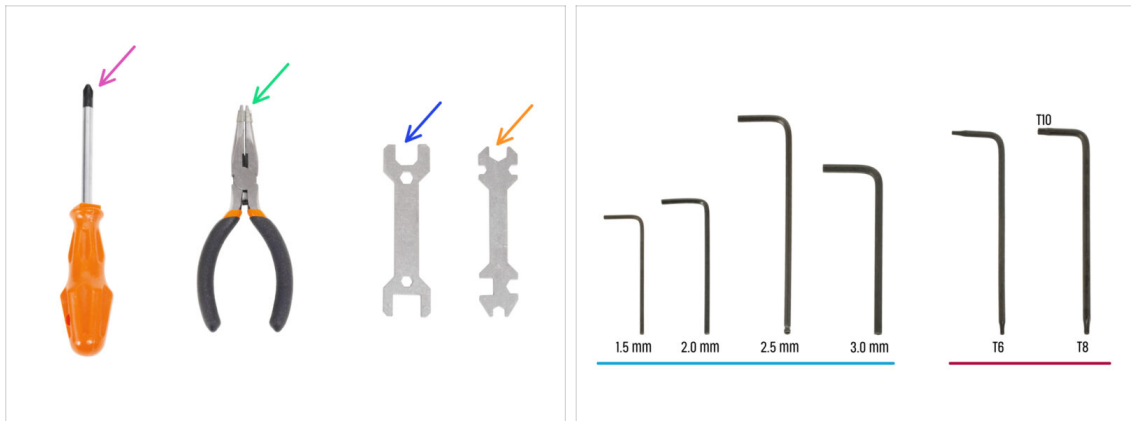
- Use the graphical navigation buttons in the bottom right corner or the arrow keys on your keyboard:
  - **Next button / Right arrow key** - Moves to the next image, or to the next step if it's the last image in the step.
  - **Left arrow button / Left arrow key** - Moves to the previous image, or to 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.

- ① 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.

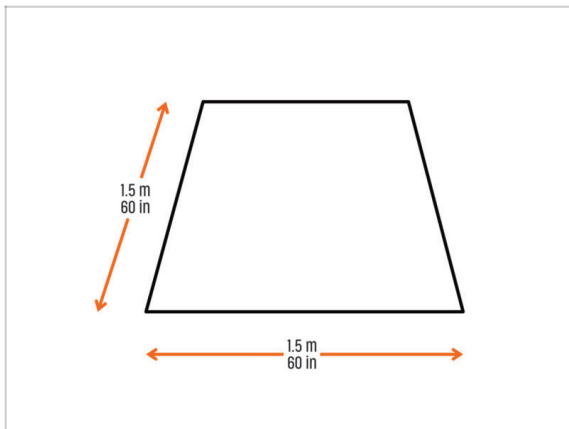


You can download the cheatsheet on [prusa.io/core-one-cheatsheet](https://prusa.io/core-one-cheatsheet).



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

## STEP 6 Let's get everything set up!



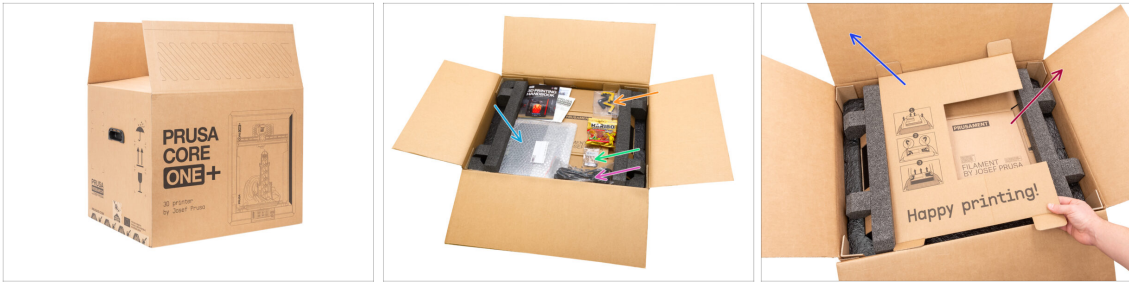
**CAUTION: The package is heavy—handle it with care!**

- 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



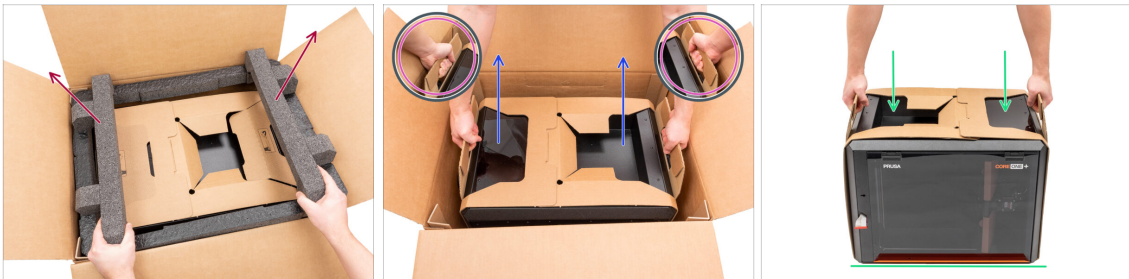
### STEP 1 Preparing the package



 The package fixations and foam inserts may vary.

- Open the package. On the top layer, you will find Haribo gummy bears, a 3D printing handbook, a welcome letter, other documentation, and these components:
  - Print sheet
  - USB drive
  - Power cord
  - Anti-vibration bars (2x) / Anti-vibration feet (4x) Products and packaging may vary.
- 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 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.

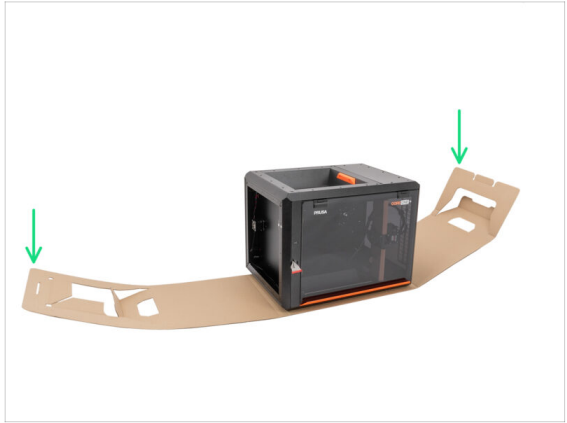
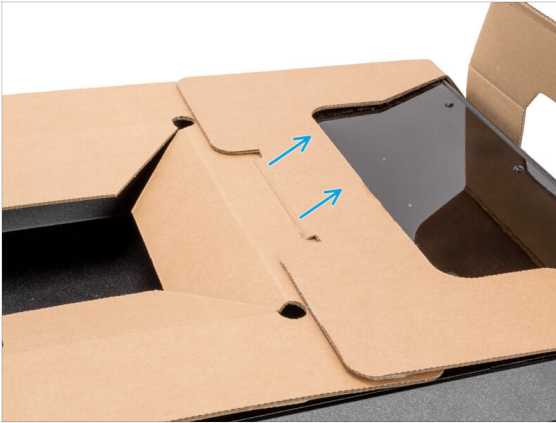
 **CAUTION: The printer is heavy—handle it with care!**

- 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



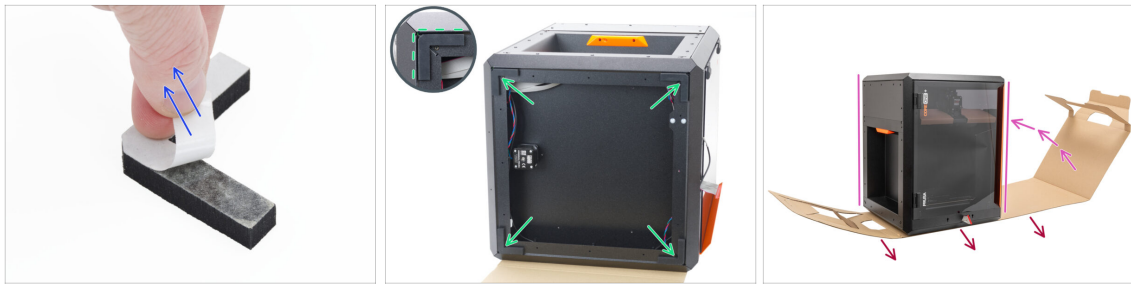
- Detach the two ends of the cardboard protective layer from each other by pulling the upper layer out.
- Fold down the cardboard protective layer away from the printer.

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



- For the following steps, prepare:
  - Anti-vibration foot (4x)

### STEP 5 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 6 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 7 Preparing the Tool pack

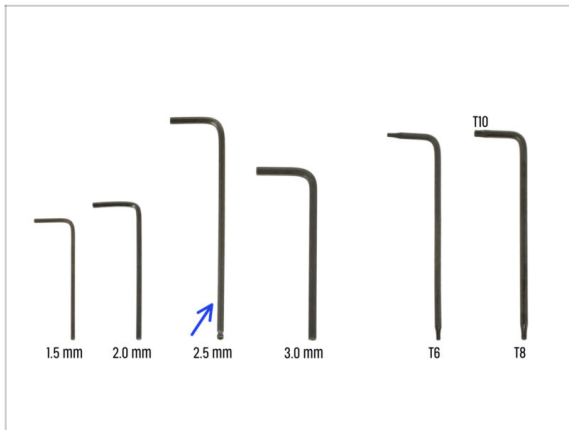


- The tool pack is located on the right side of the printer.
- Remove the cardboard tool pack from the printer.
- Open the tool pack completely. **Inside, you will find:**
  - xLCD assembly package
  - Tools package
  - Spool-holder and O-ring
  - Accessories
- Keep the content aside for later use. Now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

### 3. Mounting the xLCD

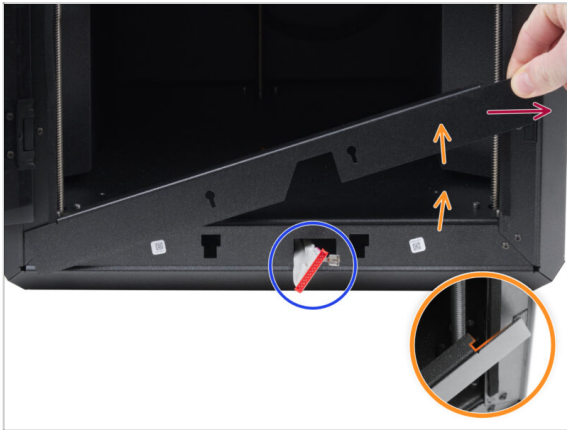


#### STEP 1 Tools necessary for this chapter



- 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.**

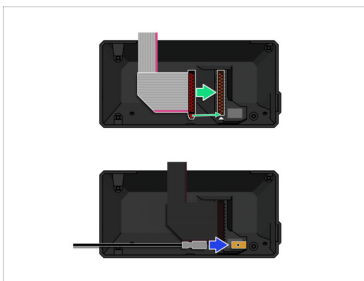
#### STEP 3 xLCD assembly: parts preparation



● For the following steps, please prepare:

● xLCD assembly (1x)

#### STEP 4 Connecting the xLCD assembly



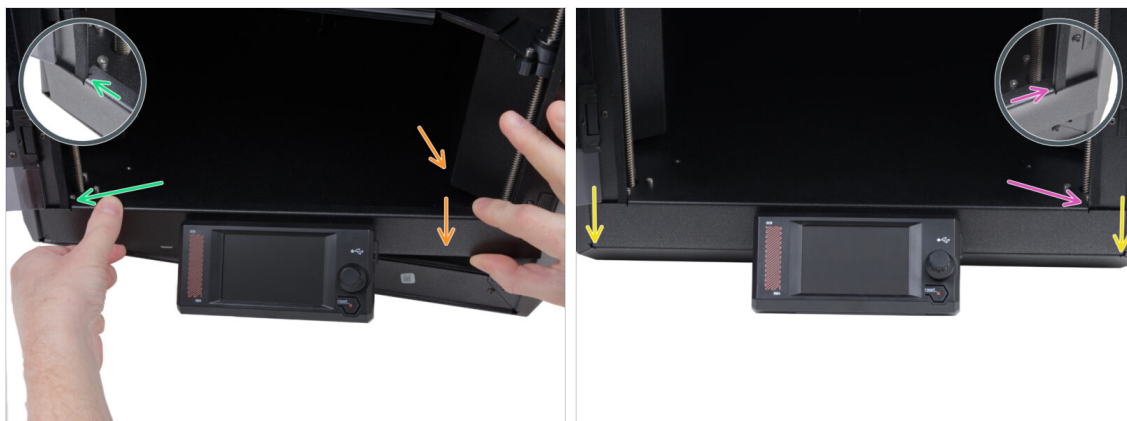
- ① The rear cover (xLCD display mount) may differ depending on the version, but the assembly procedure remains the same.
- Connect the xLCD cable (gray cable with red connector) to the xLCD board on the back of the xLCD assembly. **Do not pull on the cable!**
  - ⚠ **Ensure the latch on the connector 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.

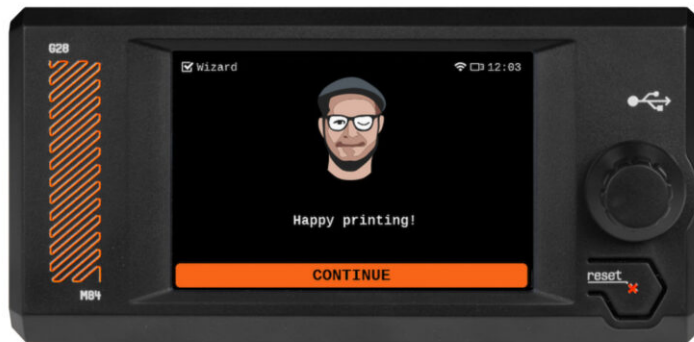
- Hook the left side of the bezel onto the left frame of the printer, ensuring the square cutout is securely attached to the frame.
- Slowly lower the right side into place as well.
- Secure the right side of the bezel onto the right frame of the printer, ensuring the square cutout is securely attached 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 Print sheet and spool holder



**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!**

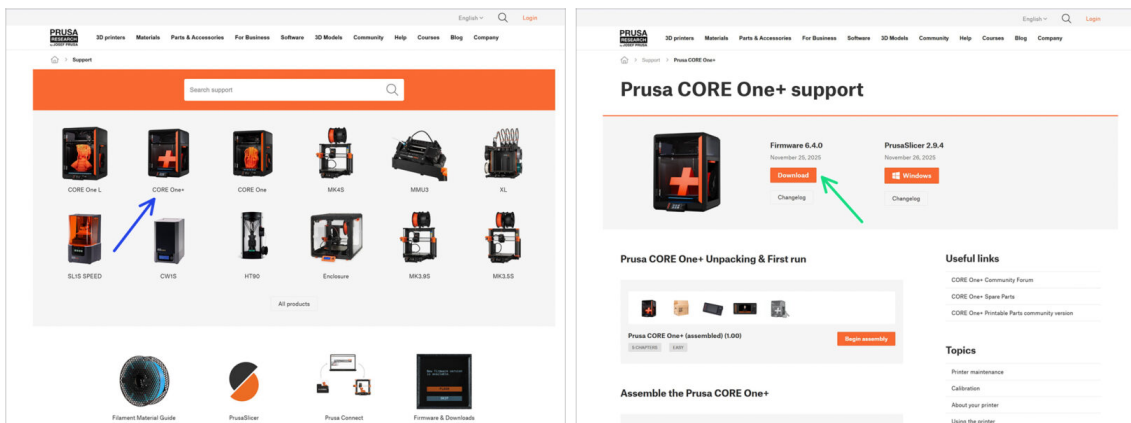
**■** Keep the **print sheet** clean for optimum performance.

**■** #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.

**■** Put the O-ring onto the spoolholder.

**■** Push the spoolholder into the Puck-universal and lock it in by turning clockwise.

### STEP 2 Firmware update



**i** 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*.

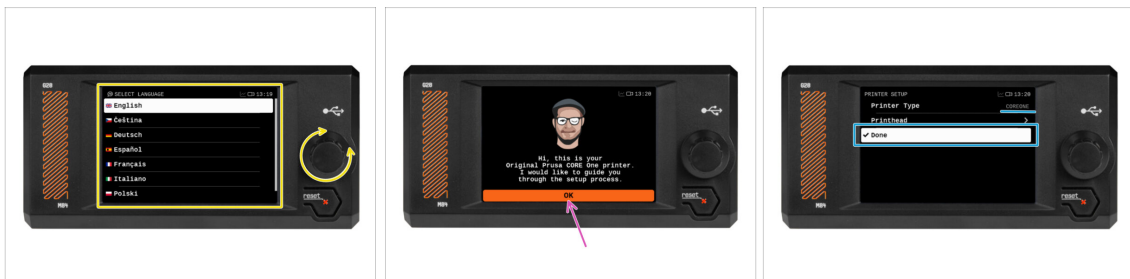
**i** Pro tip: To access Prusa CORE One+ homepage you can use the URL: [prusa.io/core-one-plus](https://prusa.io/core-one-plus)

### 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 for COREONE during these tests. Hit **Done** to continue.

## STEP 5 Setting up the printer: Network setup



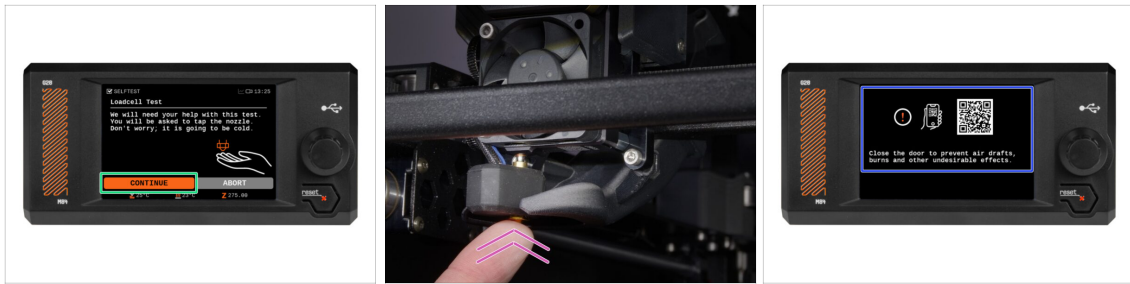
- The Network Setup screen will ask you to connect to a Wi-Fi network using our official Prusa mobile app.
  - ⓘ Read more on [prusa.io/app](https://prusa.io/app).
- If you select **No**, the printer will show alternative ways to connect to Wi-Fi. This step is optional and can be done later.
- ⓘ You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

## STEP 6 Wizard: Intro



- ❗ 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



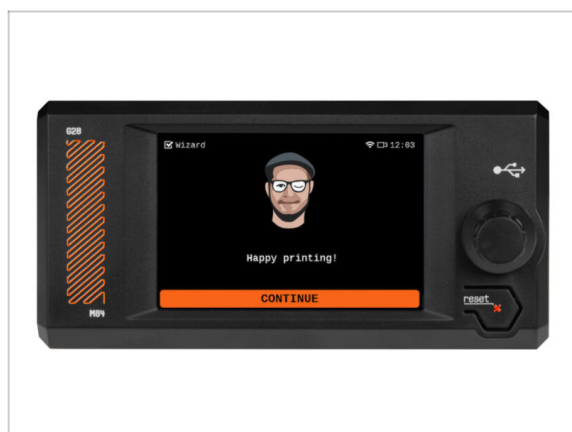
- The next screen will prompt you to perform gearbox calibration. This step is not necessary for pre-assembled printers from our company.
- Hit Skip to continue.

## 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 [prusa.io/core-one-plus](https://prusa.io/core-one-plus).



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

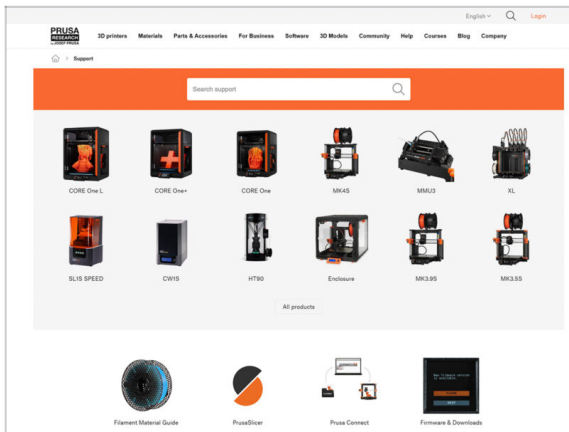
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## STEP 12 Give us feedback



- ◆ We know you're eager to start printing, but we'd really appreciate it if you could take 3–4 minutes to **share your thoughts** on this manual: how clear it was, how easy it was to follow, and any ideas to improve it.
  - ⓘ This feedback is a little different from the usual comments you might leave on individual steps.
- ◆ **Share your feedback here.**
- ◆ Thank you for helping us make our manuals even better!

### STEP 13 Prusa knowledge base

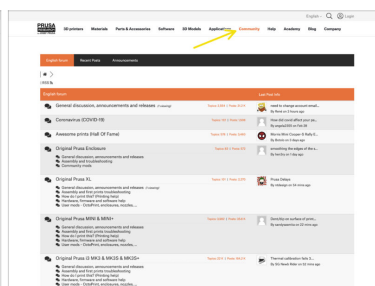
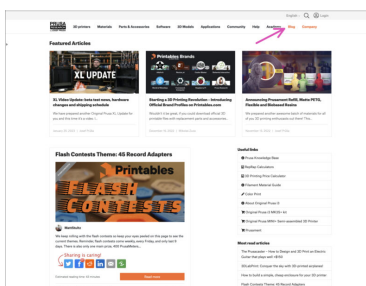
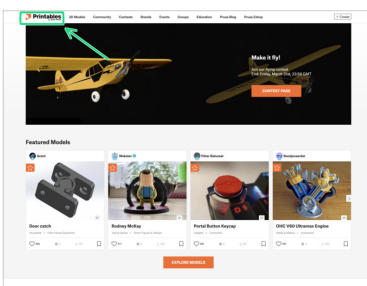


If you encounter any problems at all, don't forget you can always check out our knowledge base at [help.prusa3d.com](https://help.prusa3d.com)



We're adding new topics every day!

### STEP 14 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:**
- 11/2025 - Initial version 1.00

## 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.



## 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.



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