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8. First run



help.prusa3d.com/g610740

Scan the QR code to
display the latest
version of this
chapter.



8. First run

STEP 1 Before you start with Multi-Tool



i This chapter shows a brief description of the wizard. Please note that the screenshots are illustrative and might differ from those in the firmware.

i Make sure you are running **Firmware 6.2.4 or newer**.

i You can download firmware updates in **Downloads**. The guide for updating the firmware is in **How to update firmware (MK4, XL)**

i Some parts of the wizard must be done multiple times, this depends on the number of tool-heads. For example:

- Dock Calibration
- Loadcell calibration
- Filament sensor calibration

STEP 2 Preparing the printer



⚠ Make sure that the printer is placed in a stable place where no ambient vibrations are transmitted (for example, where other printers are printing).

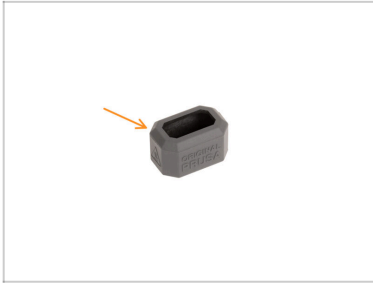
- From the rear side of the printer, plug in the PSU cable.
- Turn the power switch ON (symbol "I").

STEP 3 Factory reset



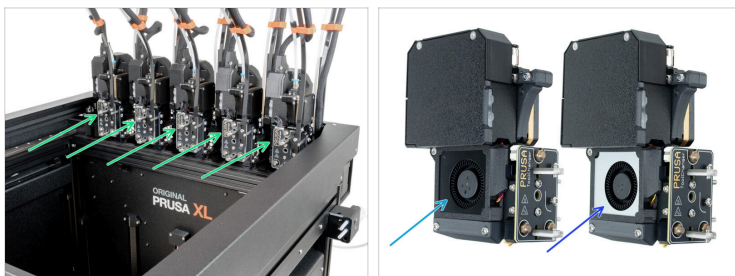
- After upgrading, the first thing we need to do is reset the printer to factory defaults.
- On the printer screen, go to **Settings -> System -> Factory reset** and select **Reset Settings & Calibrations**.
- Wait till the printer is ready.
- Restart the printer.
- Select the language you prefer.
- Good job. The printer is ready for Wizzard. Proceed to the next step.

STEP 4 Prusa Nextruder sock (Optional)



- ✦ A silicone sock is supplied with each Nextruder package.
- ✦ If you want to install the sock, **do it before the calibration.**
- ① How to install the sock - check the article.

STEP 5 Checking the print fan type



⚠ Starting January 2026, printheads are shipped with a silver print fan. Check the color of the print fan installed on the toolhead. In the following step, you will confirm the print fan type in the printer menu.

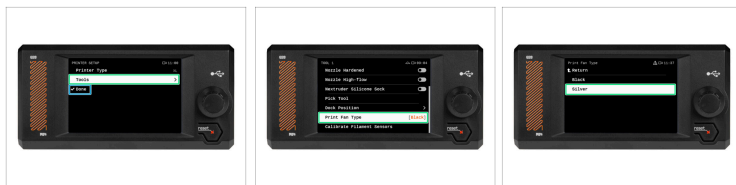
🟢 Check the color of the print fans on the left side of each toolheads.

📌 You may have a mix of black and silver print fans. We recommend to write this information down for the next step. The leftmost toolhead is Tool 1, and the second one is Tool 2, ...

🟠 Black print fan.

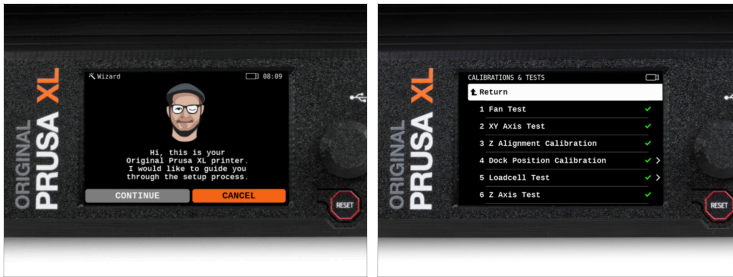
🟡 Silver print fan.

STEP 6 Setting silver print fan



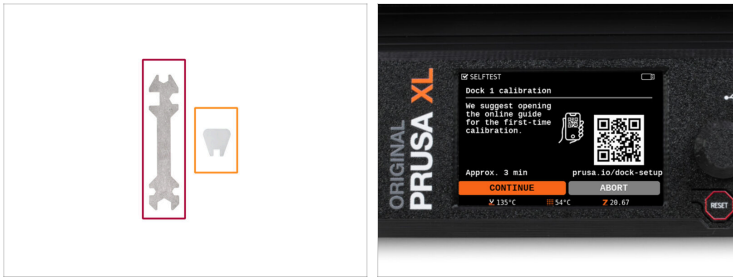
- After the printer starts up, the setup wizard will show up - Printer setup.
- If you have all black print fans, select **Done** using the knob to skip to the next step.
- If any print fans are silver, set them in this step:
Tools -> Tool 1 -> Print Fan Type -> Silver for first toolhead - if the printfan is silver,
Tools -> Tool 2 -> Print Fan Type -> Silver for second toolhead - if the printfan is silver,
Tools -> Tool 3 -> Print Fan Type -> Silver for third toolhead - if the printfan is silver,
Tools -> Tool 4 -> Print Fan Type -> Silver for fourth toolhead - if the printfan is silver,
Tools -> Tool 5 -> Print Fan Type -> Silver for fifth toolhead - if the printfan is silver.

STEP 7 Wizard



- ◆ The screen prompts you to start the printer test and setup wizard.
- ❗ The wizard will test all important components of the printer. The whole process takes a few minutes. Some parts of the wizard require direct user interaction. Follow the instruction on the screen.
- ⚠ **NOTE: While testing the axes, make sure that there is nothing in the printer that is obstructing the movement of the axes.**
- ⚠ **WARNING: Do not touch the printer during the wizard unless prompted! Some parts of the printer may be HOT and moving at high speed.**

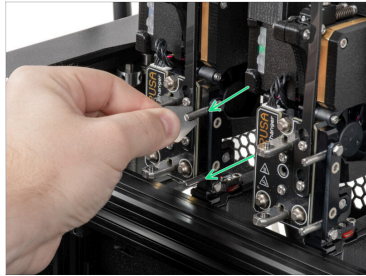
STEP 8 Wizard: Dock Position Calibration



- You will need:
 - Universal wrench (1x)
 - Mini wrench (1x)
- Dock calibration will guide you through how to properly calibrate the position of individual tool heads on the printer.
- ⚠ It is necessary to follow every step in the dock calibration properly! **Do not rush, read every step twice, then proceed with the instruction.**

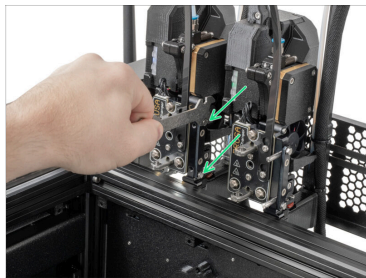
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STEP 9 Wizard: Loosen pin



- Follow the wizard instructions on the screen.
- Using a Mini wrench, unscrew and remove both dock pins on Dock 1.

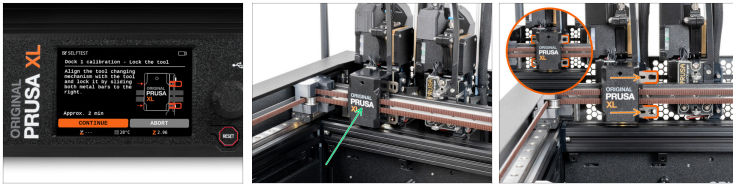
STEP 10 Wizard: Loosen screws



- Follow the wizard instructions on the screen.
- Using a Uni wrench, loosen two screws. **A few turns are enough.**

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STEP 11 Wizard: Lock the tool



- Follow the wizard instructions on the screen.
- Manually move the Tool changing mechanism to the first tool.
- Manually lock the metal bars as described in the picture.
- ⚠ **The tool has to be locked in the tool changer.**

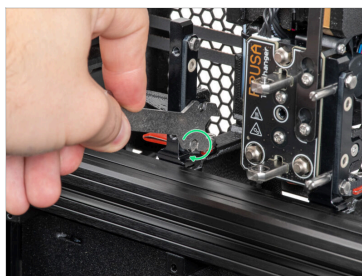
STEP 12 Wizard: Tighten the upper screw



- Follow the wizard instructions on the screen.
- Using a Uni wrench, tighten the upper screw on a side of the dock.
- ⚠ **After confirming by the *continue* button on the LCD, the XY axis will leave the dock with the tool. Clear the space.**

8. First run

STEP 13 Wizard: Tighten the lower screw



- Follow the wizard instructions on the screen.
- Using a Uni wrench, tighten the lower screw on a side of the dock.

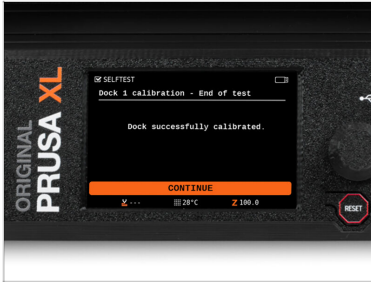
STEP 14 Wizard: Install pins



- Follow the wizard instructions on the screen.
- Insert the two metal pins and tighten them with a Mini wrench.
- After clicking on the **continue** button on the LCD, the printer will put back the tool into the dock1 and do a few calibration moves.
- After the Dock1 calibration, proceed to the Dock2 calibration and repeat the steps.

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STEP 15 Wizard: Dock successfully calibrated



- Good job! The Dock1 is calibrated.
- According to the number of print heads, the dock calibration process is repeated.

STEP 16 Wizard: Test Loadcell



- 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, you can touch the parts of the printer. Click on **Continue**.
- Do not touch the nozzle yet, wait until prompted with the message: **Tap the nozzle NOW**.
- Slightly tap the nozzle. No need to use extra force. In case the Loadcell does not detect enough touch, you will be prompted to repeat the step. Otherwise, you will see **Loadcell test passed OK** when it succeeds.

STEP 17 Wizard: Recalibrate Filament Sensors



- ◆ After the upgrade, we need to recalibrate the filament sensors.
- ① Your printer should have no filament at all.
- ◆ Please proceed through the filament sensor calibration. Follow the instructions on the display.
- ◆ Select **No**, your printer has no filament at all.
- ◆ Wait for the printer to prompt you to insert the filament into the side filament sensor.
- ◆ Proceed to the next step.

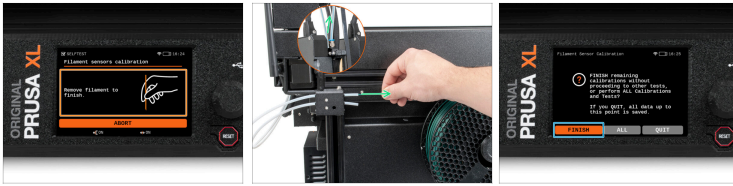
STEP 18 Wizard: Recalibrate Filament Sensors



- Now, insert the filament into the PTFE tube (the tool head you selected) in the side filament sensor and push it until it reaches the filament sensor in the extruder (you will feel a slight resistance).
- You can check the side filament sensor (left) and extruder filament sensor (right) status on the bottom bar on the screen.
- i It takes several seconds for the filament sensor to be calibrated.
- After the successful calibration, proceed on the screen by selecting ***Continue***.
- Proceed to the next step.

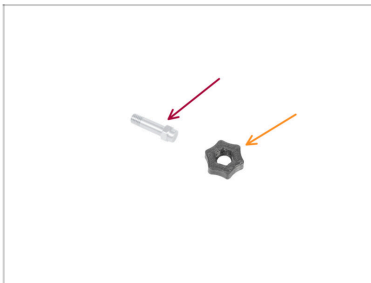
8. First run

STEP 19 Wizard: Recalibrate Filament Sensors



- You will be prompted to remove the filament from the side filament sensor.
- Remove completely the filament from the side filament sensor.
- On the screen, select **Finish** and proceed with the calibration with all tool heads on your printer.

STEP 20 Calibration pin: parts preparing



- For the next step, please prepare:
 - Calibration pin (1x)
 - Calibration-pin-key (1x)

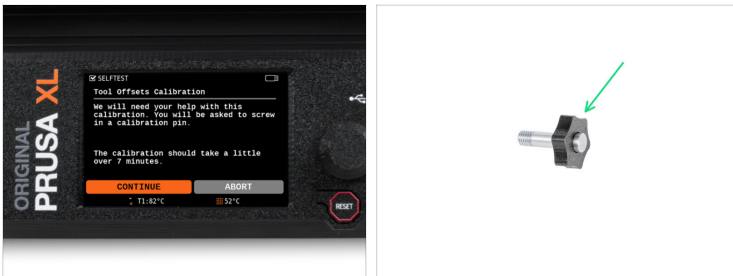
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STEP 21 Calibration pin: parts assembly



- Insert the calibration pin into the plastic part.
- Push the pin into the plastic part, so it will make a small gap on top.
- Well done, the pin is prepared.

STEP 22 Wizard: Tool Offset Calibration



- During offset calibration, you will need to screw the calibration pin into the center of the heatbed.
- Click on *Continue* to start the Tool Offsets Calibration.
- Calibration pin (1x)

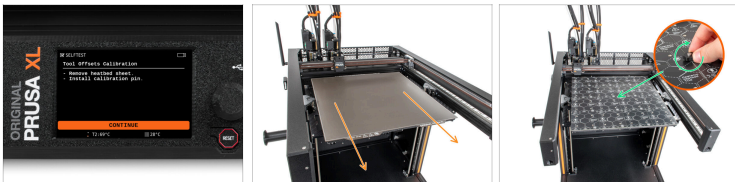
8. First run

STEP 23 Wizard: Sheet install



- Follow the wizard instructions on the screen.
- Put the print sheet on a heatbed.
-  Now, the printer starts short calibration.

STEP 24 Wizard: Calibration pin installation



- Follow the wizard instructions on the screen.
- Take off the print sheet from the heatbed.
- Install the calibration pin into the middle of the heatbed. Turn the pin clockwise.
-  Now, the printer will calibrate all five tool heads.

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STEP 25 Wizard: Offset calibration done



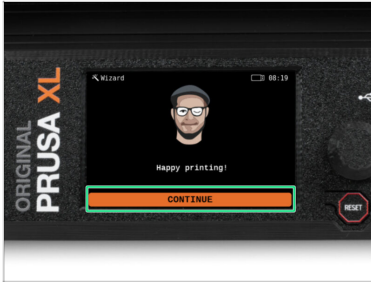
- Follow the wizard instructions on the screen.
- Untighten the calibration pin from the heatbed and take it off. Rotate counterclockwise.
- Place the print sheet onto the heatbed.
-  The printer will finish the calibration.
- Good job! The Offset calibration is done.

STEP 26 Calibration pin



- Insert the calibration pin into the side filament sensor.

STEP 27 It's done



- ◆ **That's all, the printer is ready to print.** But still, follow the instructions in this manual to the end.

STEP 28 Reward yourself!



It looks like you have successfully assembled and connected everything. No doubt ;).
Congratulations!
You deserve a big reward for that. Eat all the remaining gummy bears... and don't forget to share with those who supported you during the assembly.

i **Did you know that** Haribo gummy bears are one of the most important parts of the Original Prusa printers assembly instructions.

STEP 29 Quick guide for your first prints

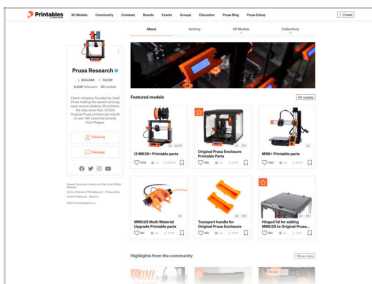


Now, please read the **3D Printing Handbook**, which is tailor-made for your printer and **follow the instructions to set up the printer properly**. The latest version is always available at **this link**.



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

STEP 30 Printable 3D models



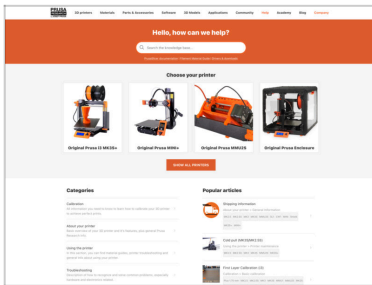
Congratulations!
You should be ready to print by now ;-)



You can start by printing some of our test objects bundled on the included USB stick - you can check them out **Printables**.

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STEP 31 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
- We're adding new topics every day!

STEP 32 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://www.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 :-)
- ① All services share one account.

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