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1A. Wprowadzenie



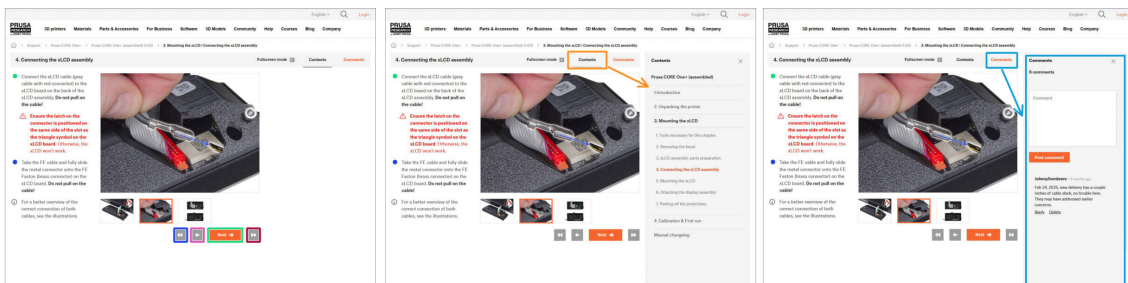
KROK 1 Informacje o instrukcji



- Witaj w przewodniku konwersji Twojej Original Prusa MK4S do CORE One+.
- Please prepare the upgrade kit received from Prusa Research.
- W pierwszej części instrukcji sprawdzimy kluczowe komponenty drukarki MK4S, a następnie zajmiemy się jej demontażem.

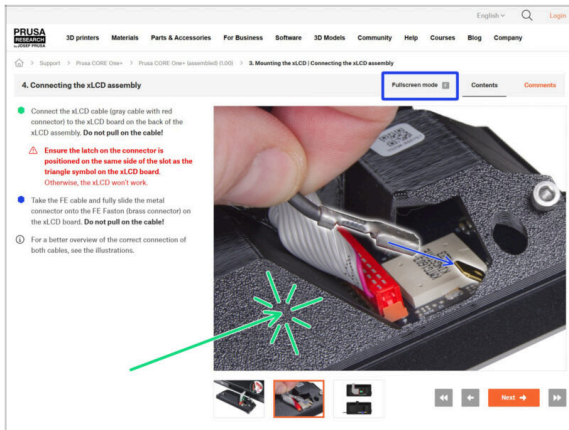
Następnie zmodyfikujemy kilka elementów, aby w końcu rozpocząć proces montażu CORE One+.

KROK 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.

KROK 3 View high resolution images



- When you browse the guide on 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.

KROK 4 Kompatybilność



⚠ Jediną opcją konwersji do CORE One+ jest konwersja z **MK4S**.

Jeśli posiadasz starszą drukarkę musisz najpierw zmodernizować ją do MK4S, a następnie przystąpić do konwersji do CORE One+.

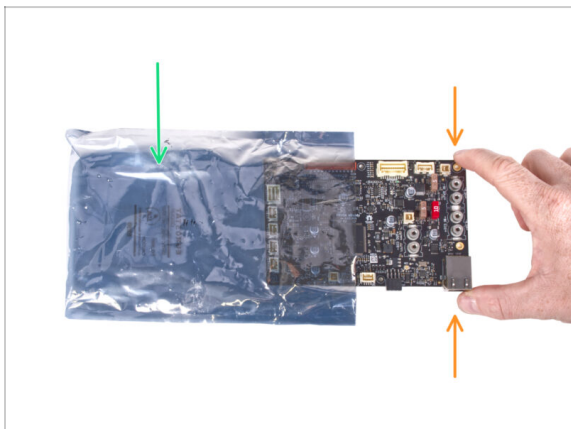
❗ There are two versions of the conversion package, depending on the xLCD version in your MK4S printer.

⚠ The silver PSU is not compatible with the conversion kit.

If you have this PSU version, you will need to purchase a compatible one.

■ Więcej informacji znajdziesz na [stronie produktu CORE One+ Conversion Kit w sklepie internetowym](#).

KROK 5 Ważne: ochrona elektroniki

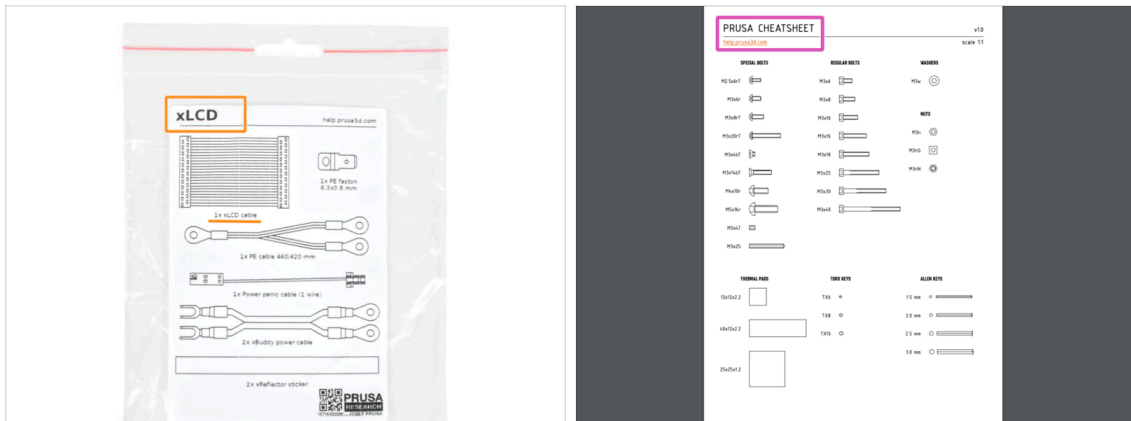


⚠ WARNING: Make sure to **protect the electronics against electrostatic discharge (ESD)**. When possible, always unpack the electronics right before you need them.

Here are some tips to prevent damage to the electronics:

- **Keep the electronics inside an ESD-safe bag** right until you are asked to install them.
- **Always touch the sides of the board only** while handling it. Avoid touching the components on the surface.
- **Before you touch the electronics** use any grounded conductive (metal) structure nearby to neutralize the possible static charge from your hands.
- Be extra cautious **in rooms with carpets**, which are often a source of electrostatic energy.
- Clothes made of wool or certain synthetic fabrics can easily gather static electricity too. It is safer to wear cotton clothing for the assembly.

KROK 6 Przewodnik po etykietach



- All the boxes and bags including parts for the build are labeled.
- The labels include the list of contents and part count.
- You can download a **Cheatsheet** with 1:1 fastener drawings from our site prusa.io/cheatsheet-mk4. Print it at 100 %, don't rescale it, otherwise, it won't work.
- ❗ For PRUSA veterans: Fasteners are divided into individual bags according to its type. Not into packages for individual chapters, as it was with previous printers.

KROK 7 Woreczek z częściami zapasowymi



- There is a bag with spare parts like thermal pads, springs, etc.
- Spare fasteners are included in each bag of fasteners. The numbers in parentheses below the fastener picture indicate the number of extra pieces added to the SPARE package.

KROK 8 We are here for you!

PRUSA 3D

3D printers Materials Parts & Accessories Software 3D Models Applications Community Help Academy Blog Company

Support > Prusa CORE One > Prusa CORE One (assembly) 0.001 > 3. Mounting the xLCD / Connecting the xLCD assembly

4. Connecting the xLCD assembly

Fullscreen mode Contents Comments

5 comments

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 into the FE Fasten (brass connector) on the xLCD board. **Do not pull on the cable.**

For a better overview of the correct connection of both cables, see the illustrations.

Oh look at the detail!

Post comment

JohnnyBambers · 7 days ago
Feb 24, 2025, new delivery has a couple inches of cable slack, no trouble here. They may have addressed earlier concerns.
Reply Delete

Apurkine1982 · 10 days ago

Secure both parts with grub screw 3x2.0. Do not overtighten the screw! The grub screw protrudes from the PG-ring after tightening.

Apply a small amount of Prusa Lubricant all around the PG-ring and PG-assembly teeth.

Tip: apply a small amount of lubricant to the tip of the zip tie and then spread the lubricant over the gears.

Using a paper towel, wipe off any excess lubricant on the front surfaces.

2 comments

POWERED BY TRY

SUBMIT

Chat now

- Lost in the instructions, missing screw or cracked printed part? **Let us know!**
- You can contact us using the following channels:
 - Using comments under each step.
 - Using our 24/7 live chat here at help.prusa3d.com
 - Writing an email to info@prusa3d.com

KROK 9 Pro tip: inserting the nuts



- 3D printed parts are very precise, however, there still might be a tolerance in the printed part and the same goes for the size of the nut.
- Therefore it might happen, that the nut won't fit easily in or might be falling out. Let's see, how to fix it:
 - **Nut won't fit in:** use a screw with a thread along its entire length (typically: M3x10, M3x18) and screw it from the opposite side of the opening. While tightening the screw, the nut will be pulled in. Remove the screw afterwards.
 - **Nut keeps falling out:** Use a piece of tape to fix the nut temporarily in place, as soon as you insert the screw in, you can remove the tape. *Using glue isn't recommended as it can partly reach into the thread and you won't be able to tighten the screw properly.*
- Every time we recommend using the "screw pulling technique", you will be reminded with Joe's avatar ;)
- ① Parts in the pictures are used as an example.

KROK 10 Adapter do smarowania łożysk



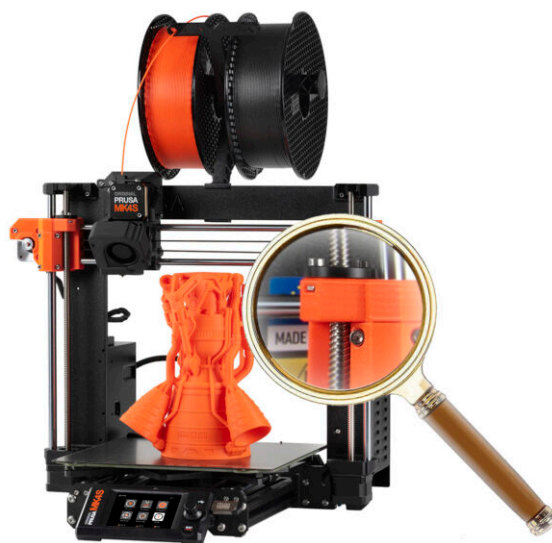
- We will reuse two LM8UU bearings from your MK4S. It is a good practice to re-lubricate them before re-using.
- For this purpose, we suggest printing the **Bearing Lubrication Pacifier from Printables**, Before disassembling the printer
- ⓘ It is a quick print, just under 20 minutes.
- The lube tube is included in the package.

KROK 11 Przygotuj obszar roboczy



- Tidy up your desk! Tidying up decreases the probability of losing small parts.
- **Clear your workspace.** Make sure you have enough room. A nice clear flat workbench will get you the results you are aiming for.
- **Let there be light!** Make sure you are in a well-lit environment. Another lamp or even an extra flashlight will probably come in handy.
- Prepare something to contain the plastic bags and the removed packing materials so you can recycle them afterwards. Make sure there are no important parts being discarded.
- ⚠ **It's highly recommended to place a soft pad on your workbench. Some sheet metal parts have sharp edges that could scratch the surface.**
- OK, we are ready. Let's start! Go to the next chapter.

1B. Przegląd MK4S



KROK 1 Wprowadzenie



- Some parts of your printer can be reused for upgrading, so it's essential to check their condition before starting.

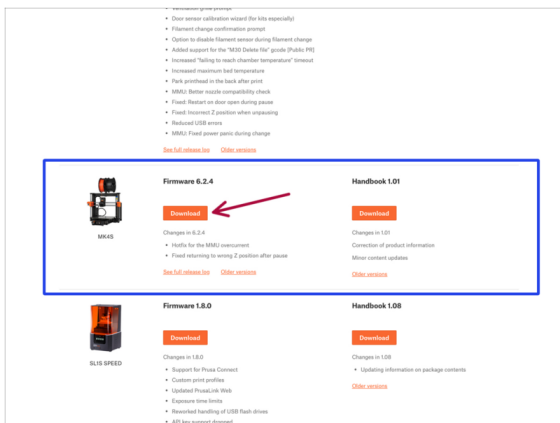
This chapter will guide you through a visual inspection of these parts. If you find any in poor condition, you'll have enough time to order replacements while still using the printer.

⚠ Do not disassemble or disconnect anything until prompted.

- Any parts that are found to be in poor condition during the inspection can be replaced with new parts. Everything is available in our [eshop](#).

i Please note that you have to be logged in to access all parts.

KROK 2 Firmware Update



- On the printer, visit the menu **Info > Version Info** to check the firmware version.

⚠ Ensure your MK4S printer has **firmware 6.2.4 or newer before continuing. Otherwise, your newly converted CORE One will not work, and will resist updating.**

- The latest firmware can be downloaded at:
[Help.Prusa3D.com/Downloads](https://help.prusa3d.com/downloads)
- For more info, visit the [Firmware Update Article](#).

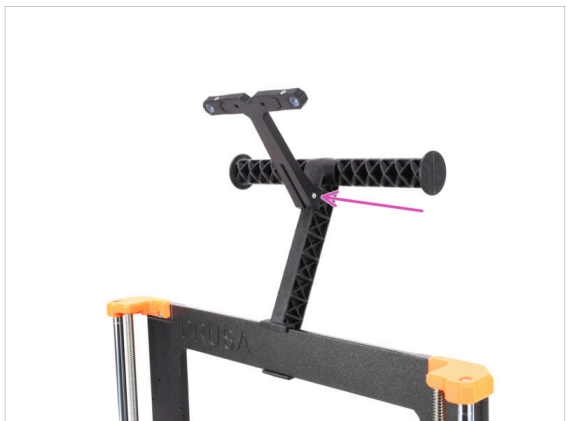
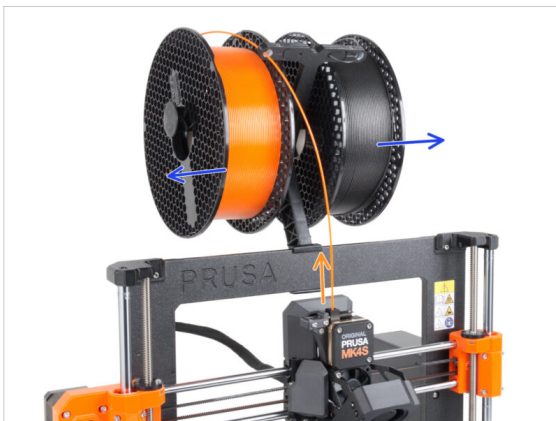
KROK 3 Printer Preparation 2



Before you start, do the following:

- Move the X-axis assembly approximately to the 2/3 height, so that:
 - i** Pro Tip: Long press the knob and use the "Z Axis Move" option.
- The rear of the extruder is accessible.
- The PSU screws are accessible.
- All the screws on the electronics box are accessible.

KROK 4 Printer Preparation 2



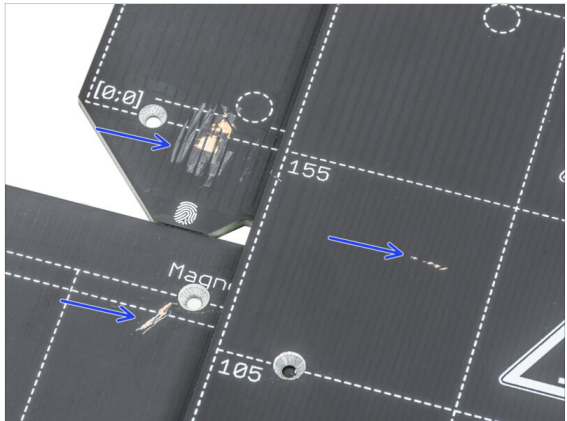
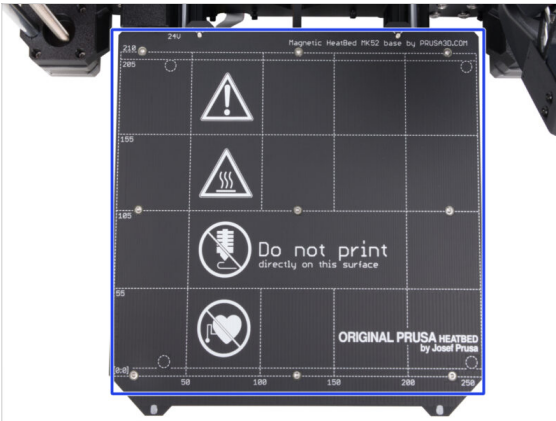
- Unload a filament, if it is loaded.
 - i** Menu Filament > Unload filament
- Remove the filament spools.
- Remove the spool holder.

KROK 5 Printer Preparation 3



- Turn off your printer and disconnect it from the power.
- Remove the print sheet and save it for later use.

KROK 6 Kontrola stołu grzewczego



- Carefully inspect the surface of the heated bed. If you find any major scratches (up to the copper layer) consider replacing it with a new piece.

KROK 7 Kontrola prętów osi Y



- Wipe the entire length of the Y-axis smooth rods with a paper towel to remove any dirt.

i Carefully inspect the surface of the smooth rods up close, as we are going to reuse them.

- The surface must be clean and smooth.
- If you find very deep scratches, corrosion, or a rough surface, it is highly recommended to replace the rods.

You can purchase a new Smooth Rod Y-axis (8×330 mm) in our [eshop](#)

- Similarly, if the smooth rods are scratched or the bearings do not move smoothly (stuttering occurs), we recommend ordering new LM8UU bearings as well.

You can purchase new LM8UU bearings in our [eshop](#).

KROK 8 Haribo?



! Keep the Haribo bag closed for now!

- This dose of energy is primarily for the printer assembly. **Wait until you are prompted to open it.**

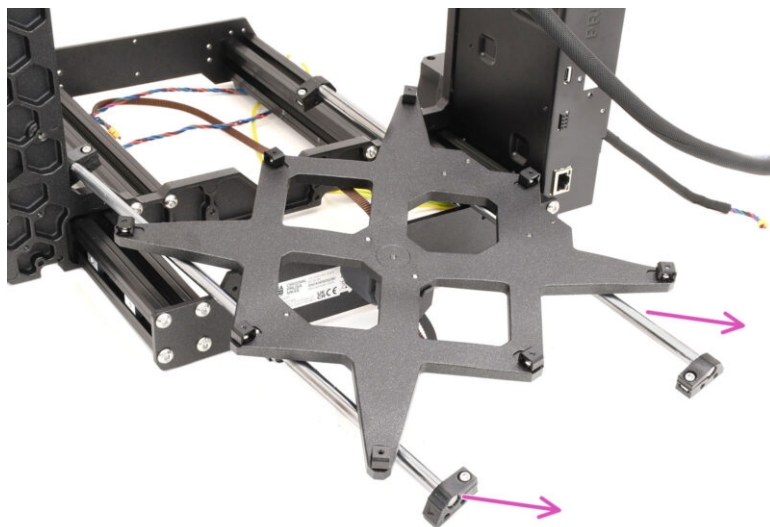
KROK 9 Get Started



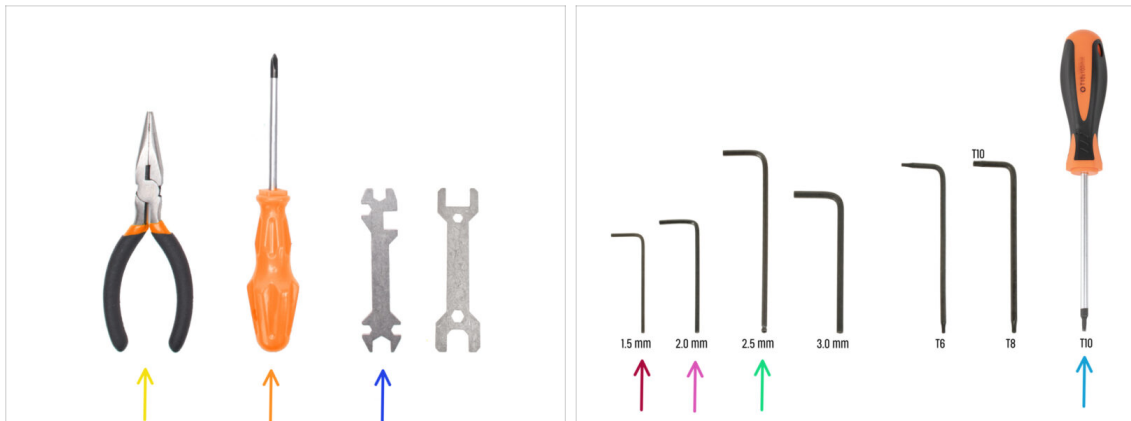
- Got everything checked? Great! Let's begin disassembling the printer.

Proceed to the next chapter.

1C. Demontaż drukarki



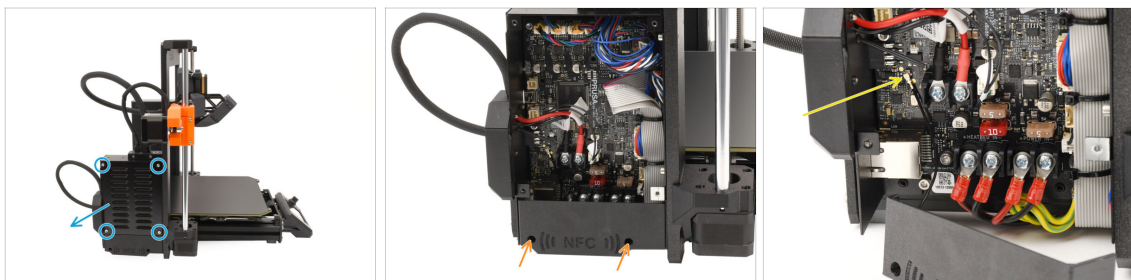
KROK 1 Tools Required



For this chapter, please prepare:

- Needle-Nose Pliers
- Phillips Screwdriver
- Universal wrench
- 1.5mm Allen key
- 2mm Allen key
- 2.5mm Allen key
- T10 Screwdriver

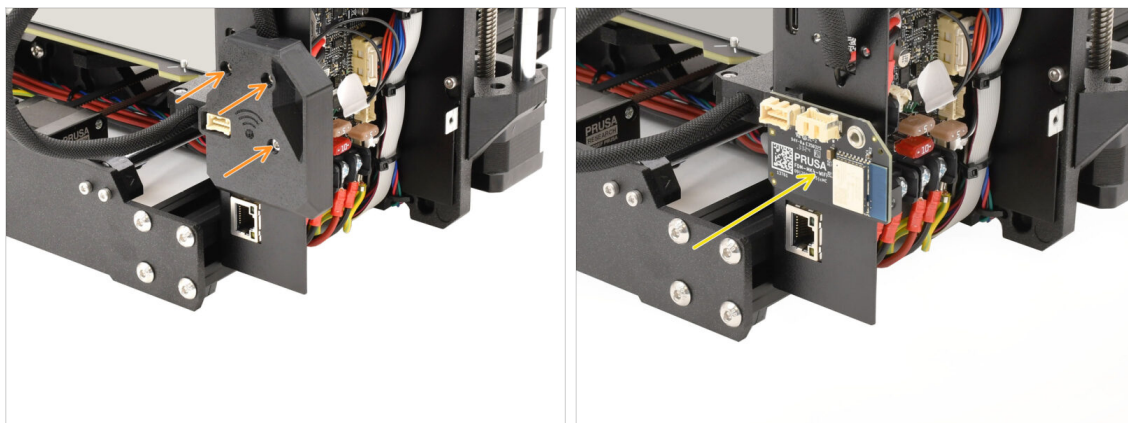
KROK 2 Electronics Disassembly



- Let's move onto the **left** side of the printer.
- Remove the four screws holding the xBuddy box cover and remove the cover.
- Using the 2.5mm Allen key, remove the two screws holding the NFC cover.
- Disconnect the NFC antenna from the xBuddy board by gently lifting the tiny connector.

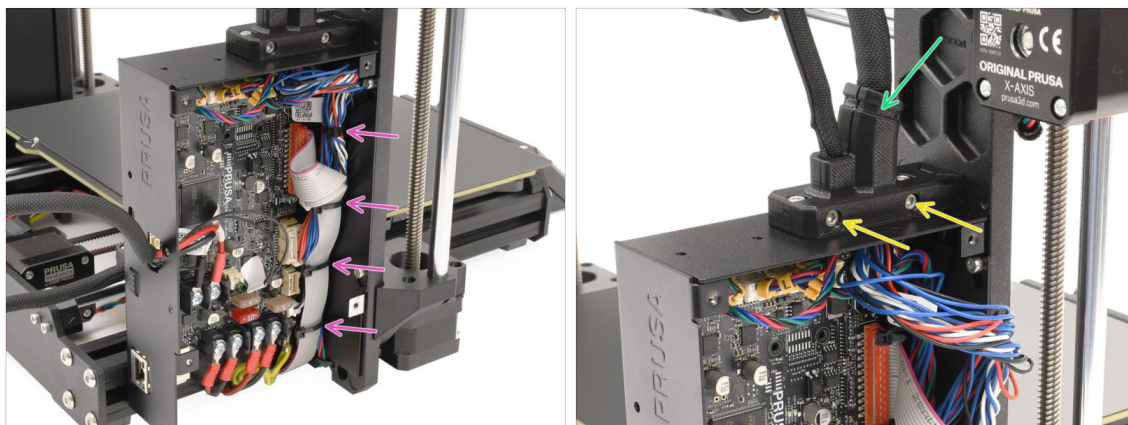
Then, remove the antenna along with the cover.

KROK 3 Wi-Fi Disassembly



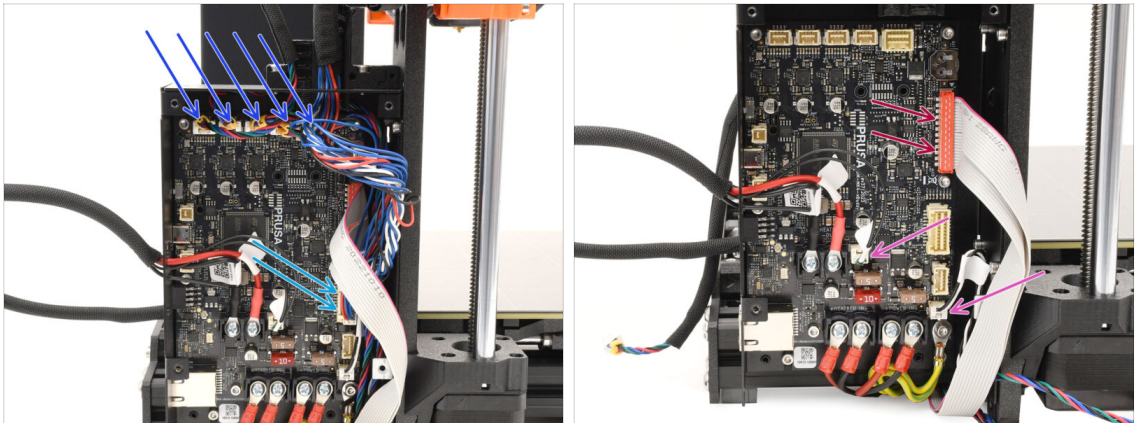
- ✚ On the back of the electronics box, remove the three screws holding the Wi-Fi cover and remove the cover.
- ✚ Remove the Wi-Fi module and **save it for later use**.
 - ⚠ Ensure you store the module and all electronic components in an ESD-safe environment to prevent damage!

KROK 4 Cable Bundle Disassembly



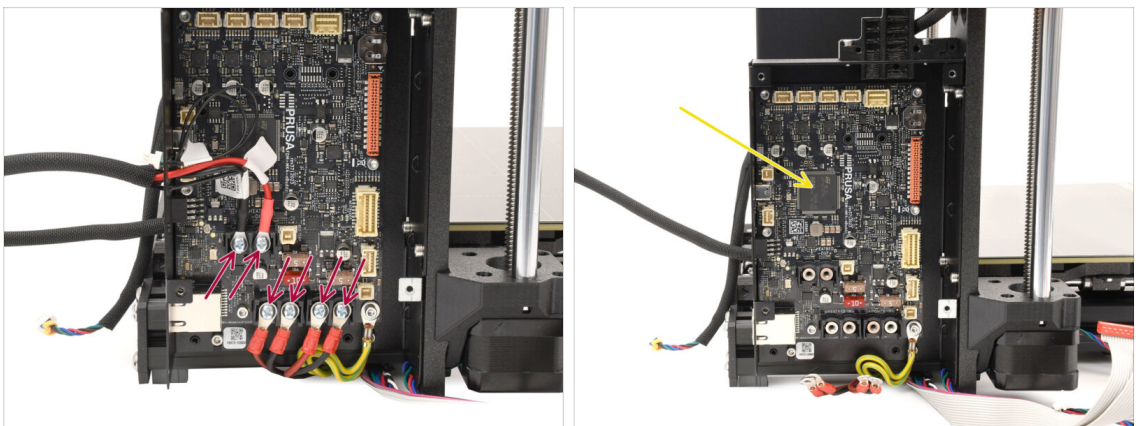
- ✚ Remove all the zip-ties securing the cable bundle inside the xBuddy box.
 - ⚠ When cutting the zip-ties, proceed carefully to prevent any damage to the cables or the electronics!
- ✚ Remove the two screws on the main cable holder.
- ✚ Odetnij opaskę zaciskową mocującą pokrywę, a następnie zdejmij zewnętrzną część uchwytu.

KROK 5 Cables Disconnecting 1



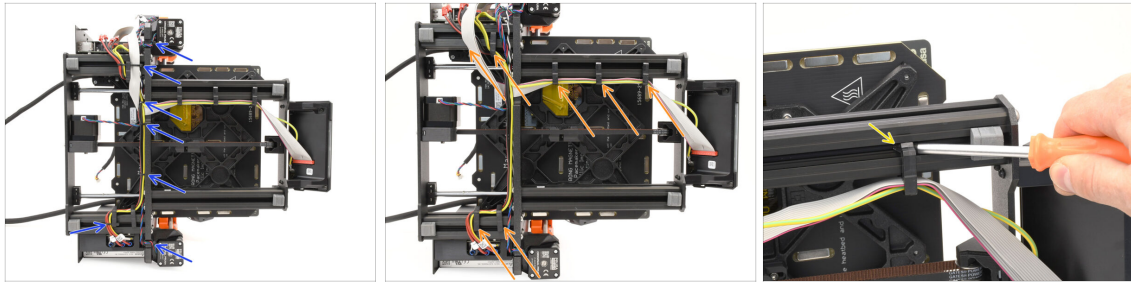
- ◆ Disconnect all the connectors on the top of the xBuddy board.
 - ⚠ There is a safety latch on each of these connectors, which must be pressed in order to disconnect it.
- ◆ Disconnect the extruder main cable connector.
- ◆ Odłącz przewody termistora stołu grzewczego i Power Panic.
- ◆ Odłącz złącze xLCD, ostrożnie podnosząc je do góry.

KROK 6 Cables Disconnecting 2



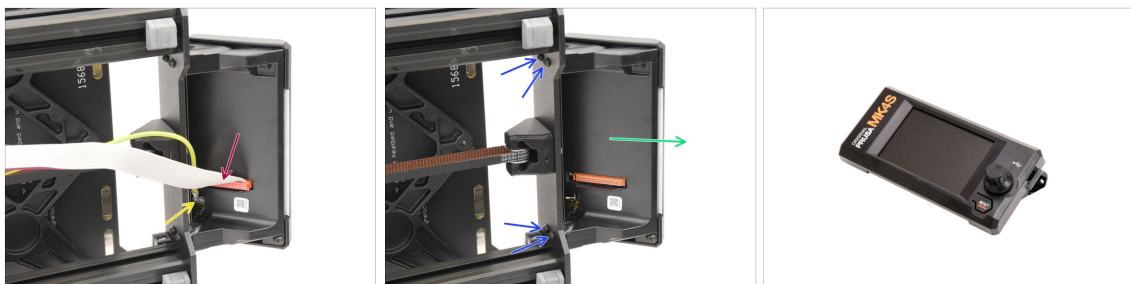
- ◆ Using the Phillips screwdriver, remove all the terminal screws holding the heatbed and power cable connectors.
- ◆ Leave the xBuddy board in the electronics box for now, as this way, it is well protected from damage.

KROK 7 Cable Budle Release



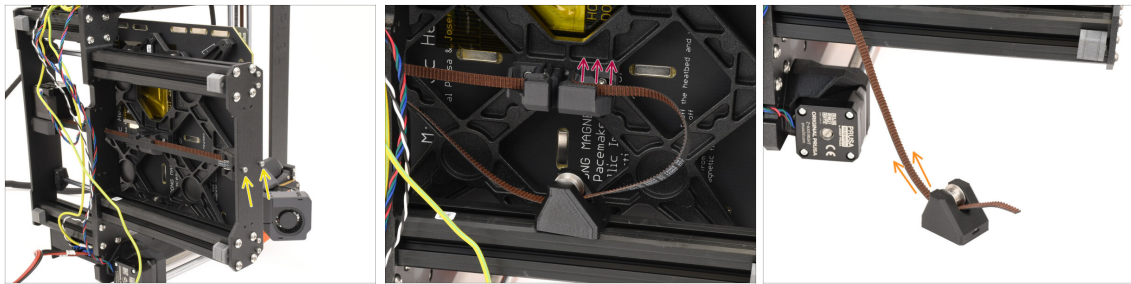
- Lay the printer onto the PSU side to access the bottom part.
- Carefully remove all the zip-ties holding the cable bundle
- Remove all the cable holders from the frame and detach them from the cables.
- Protip: możesz użyć wkrętaka do podważenia ich.

KROK 8 xLCD Removal



- Disconnect the main cable from the xLCD by gently lifting the connector up.
- Disconnect the grounding cable.
- Using the T10 screwdriver, remove the four screws holding the xLCD assembly.
- Zdemontuj zespół xLCD i **zachowaj do późniejszego użycia!**

KROK 9 Y Idler Removal



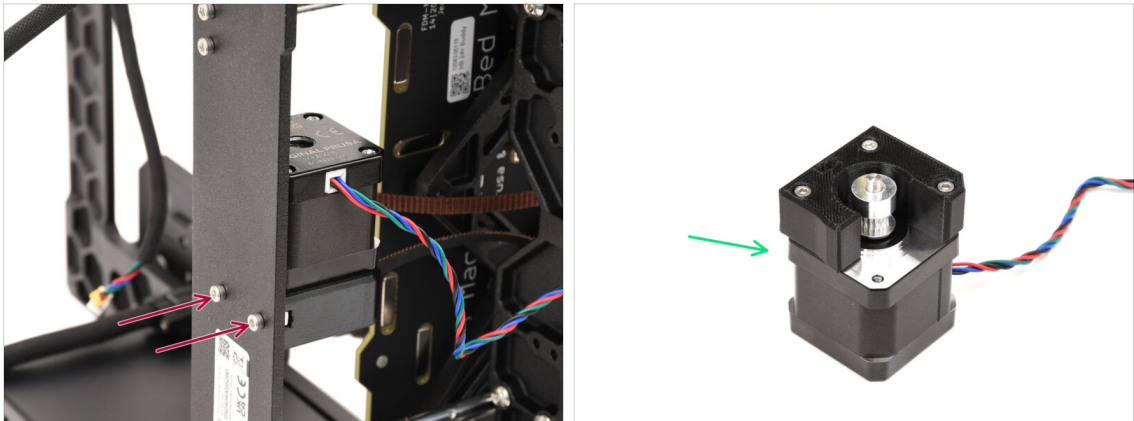
- ✦ Using the 2.5mm Allen key, remove the two screws holding the Y-Axis Idler on the front plate.
- ✦ Pull the end of the Y-axis belt out of the holder at the bottom of the heatbed to disengage it.
- ✦ Remove the belt from the idler by pulling it out.

KROK 10 Idler Pulley Removal



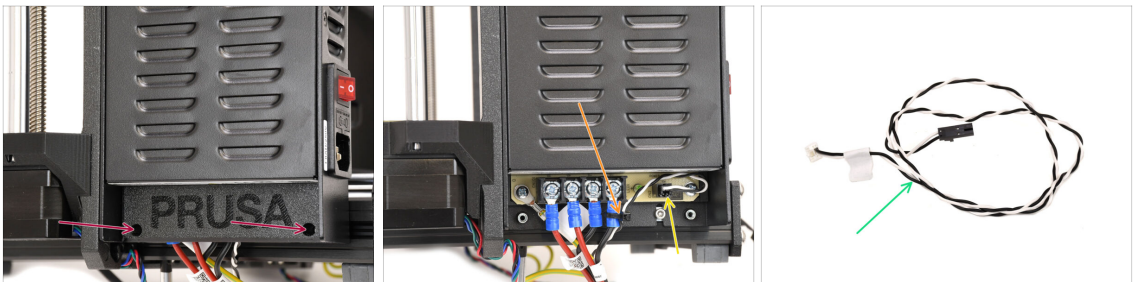
- ✦ Orient the Y-Idler as shown in the picture.
- Remove the pulley by first moving it inward, then pulling it out to the side.
- Refer to the groove pattern in the picture for the correct trajectory.
- ✦ Remove the center shaft from the pulley.
 - ✦ **Save the pulley for later use.**

KROK 11 Y Motor Removal



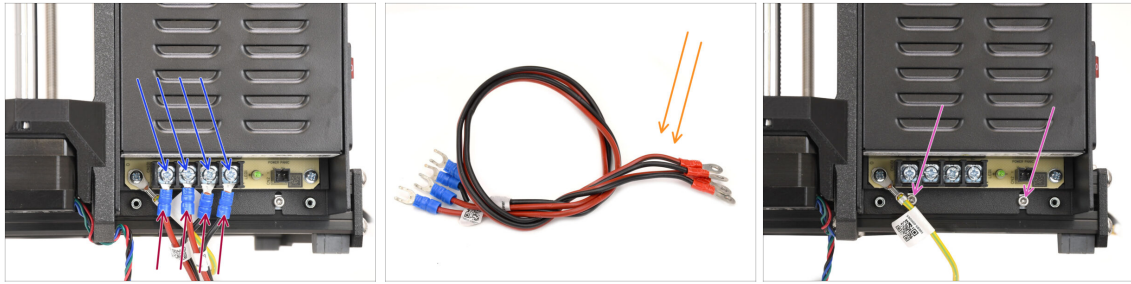
- Remove the two screws on the back of the printer, holding the Y-axis motor in place.
- Remove the Y-axis motor assembly and **save it for later use**.

KROK 12 Power Panic Cable Removal



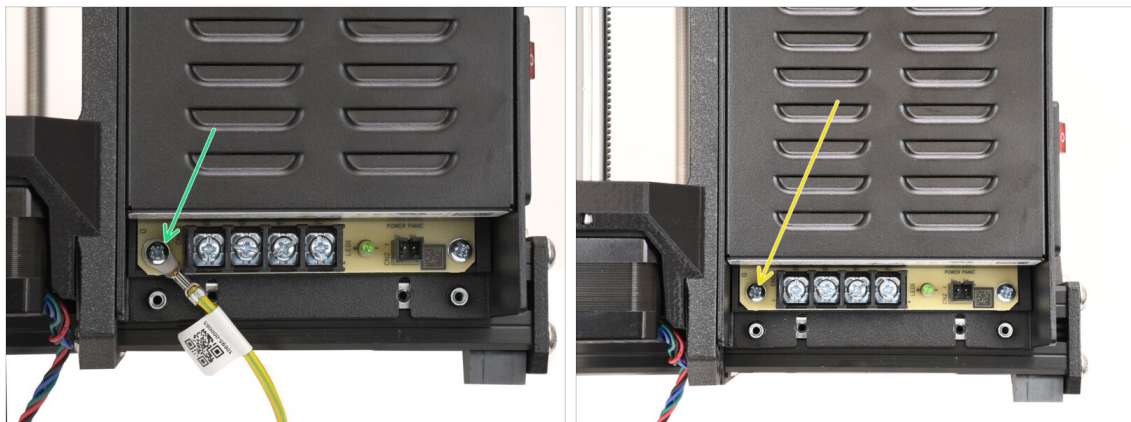
- Let's move onto the right side of the printer carcass, where the PSU lives.
 - Remove the two screws securing the cover, then take off the cover.
 - Carefully cut off the zip-tie holding the power panic cable.
 - Zachowaj przewód Power Panic do późniejszego użycia.**
- i** Twój przewód Power Panic może wyglądać nieco inaczej, w zależności od wersji płyty xBuddy.

KROK 13 Power Cable Removal



- ◆ Using the Phillips screwdriver, loosen the four power terminal screws. Do not remove them entirely.
- ◆ Remove the four power cable connectors by pulling them downward.
- ◆ Remove the power cables and **save them for later use**.
- ◆ Używając klucza imbusowego 2,5 mm, odkręć dwie śruby mocujące zasilacz do ramy drukarki.

KROK 14 PSU Removal 1



- ◆ Remove the screw holding the grounding cable to the PSU.
- ◆ Disconnect the grounding cable—it will no longer be needed.
- ◆ Re-install the screw you previously removed.

KROK 15 PSU Removal 2

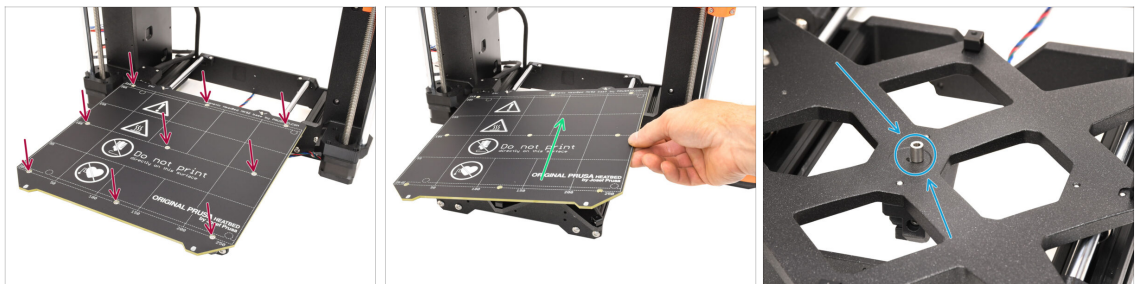


- On the front of the frame, remove the two screws holding the PSU.

⚠ The PSU might fall off to the side!

- Remove the PSU and **save it for later use**.

KROK 16 Heatbed Removal



- Let's move onto the heatbed.

- Using the T10 Torx screwdriver, remove all 9 screws holding the heatbed.

- Remove the heatbed by lifting it up. **Save it for later use**.

- Pod stołem, na środku znajduje się tulejka dystansowa. Zachowaj ją również do późniejszego użycia!

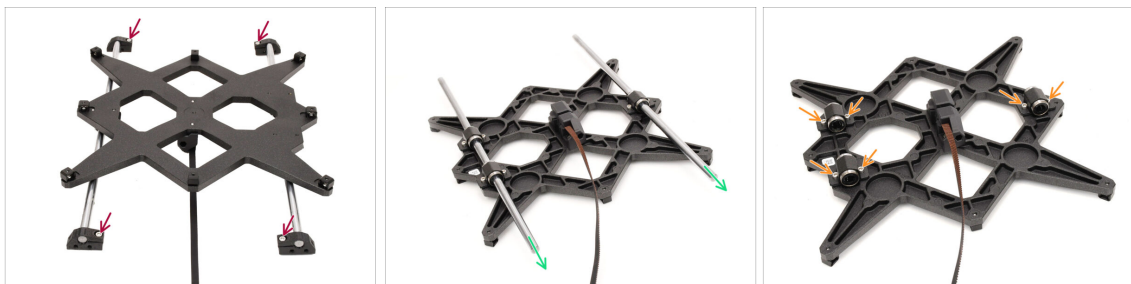
📌 Zachowaj ostrożność i przechowuj stół grzewczy na miękkiej powierzchni, aby go nie zarysować.

KROK 17 Y-Axis Removal



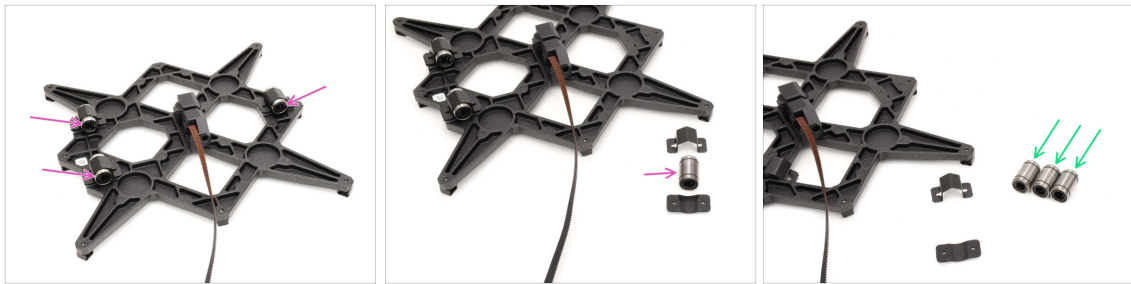
- Using the 2.5mm Allen key, remove the four screws holding the Y-axis rods to the front of the frame.
- Remove the four screws holding the Y-axis rods to the back of the frame.
- Remove the whole Y-axis assembly from the printer's frame.

KROK 18 Y-Axis Disassembly



- Remove the four screws fixing the rods to the Y-rod holders. Then, remove the plastic rod holders.
- Turn the assembly around.
- Pull out both the Y-axis rods. Clean them up and **save them for later use**.
- Odkręć wszystkie śruby mocujące łożyska do wózka.

KROK 19 Bearings Removal



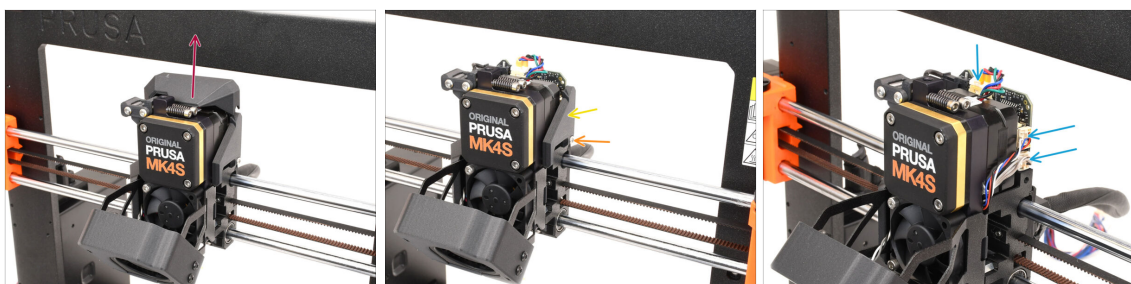
- ◆ Remove all three bearings from the bearing holders.
- ◆ Clean the bearings from any excess grease or dirt, and **save them for later use**.
- ❗ Two of this type of bearings will be used to build the CORE One+.

KROK 20 Expansion Joint Removal



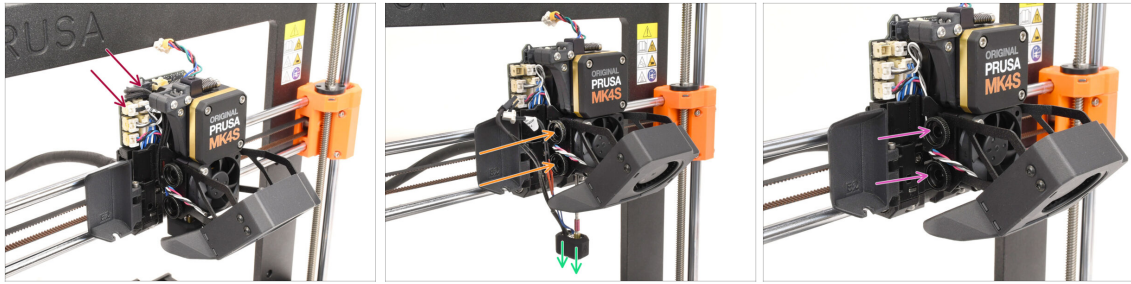
- ◆ Using the 2mm Allen key, remove all 8 expansion joints from the Y-Carriage.
- ◆ **Save the expansion joints for later use.**

KROK 21 Extruder Cover Removal



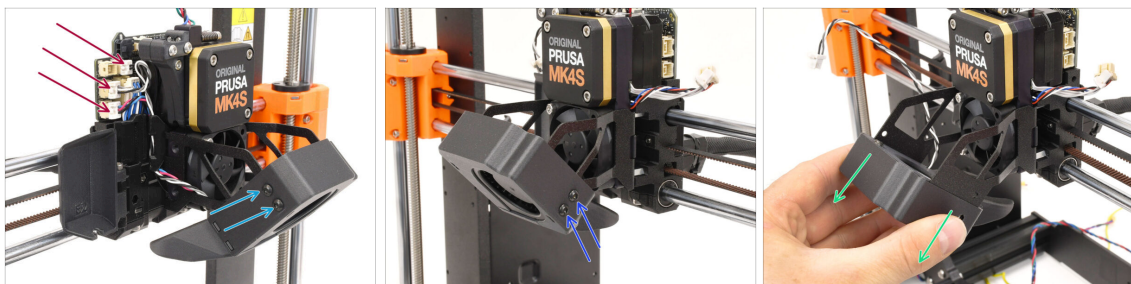
- ◆ Let's move onto the extruder.
- ◆ Remove the top cover on the extruder by lifting it up.
- ◆ Remove the screw holding the cover on the right side.
- ◆ Zdejmij pokrywę boczną.
- ◆ Odłącz przewody silnika, czujnika filamentu i czujnika tensometrycznego.

KROK 22 Hotend Assembly Removal



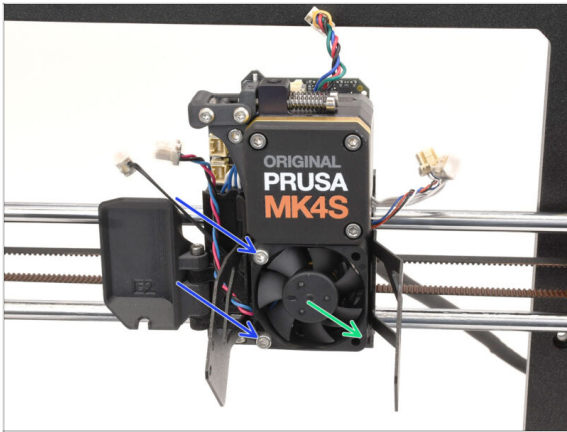
- 🔴 On the opposite side, disconnect the nozzle thermistor and nozzle heater cables.
- 🟠 Release the two thumb screws, until the hotend assembly drops.
- 🟢 Remove the hotend assembly and **save it for later use**.
- 🟡 Wykręć dwie śruby radełkowane i zachowaj je do późniejszego użycia.

KROK 23 Print Fan Removal



- 🔴 Disconnect the cables on the left side of the Nextruder.
- 🟢 Using the T10 screwdriver, remove the two screws holding the print fan on the left side.
- 🟠 Remove the two screws on the right.
- 🟢 Wysuń zespół wentylatora wydruku. Postępuj ostrożnie, aby nie uszkodzić przewodu przechodzącego przez metalowy uchwyt. **Zachowaj zespół wentylatora do późniejszego użycia!**

KROK 24 Heatsink Fan Removal



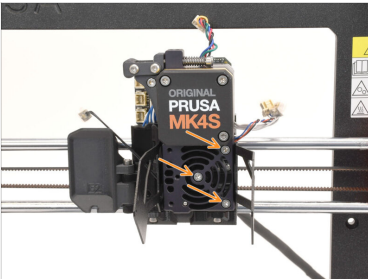
Remove the two screws holding the hotend fan to the heatsink.

Remove the fan and **save it for later use.**



Proceed carefully to prevent damaging the cable.

KROK 25 Demontaż Nextrudera



Remove the three screws holding the Nextruder to the X-carriage.

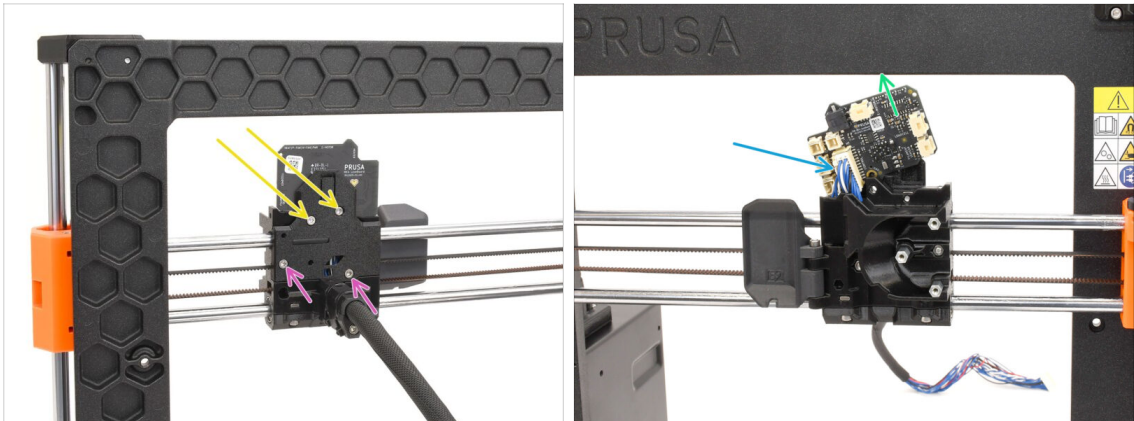
⚠ Watch out! The Nextruder might fall out!

Remove the Nextruder from the printer.

Zdejmij wspornik wentylatora wydruku i plastikową przekładkę (jeśli występuje). Postępuj ostrożnie, aby nie uszkodzić przewodu termistora radiatora.

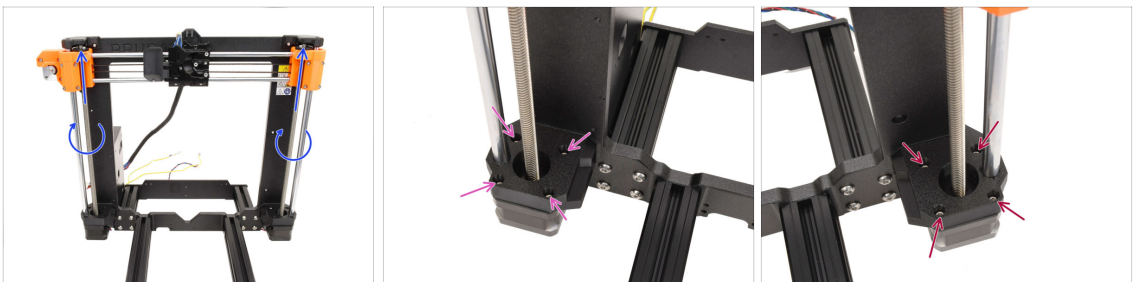
Zachowaj Nextruder do późniejszego użycia.

KROK 26 Wyciągnięcie płytki Loveboard



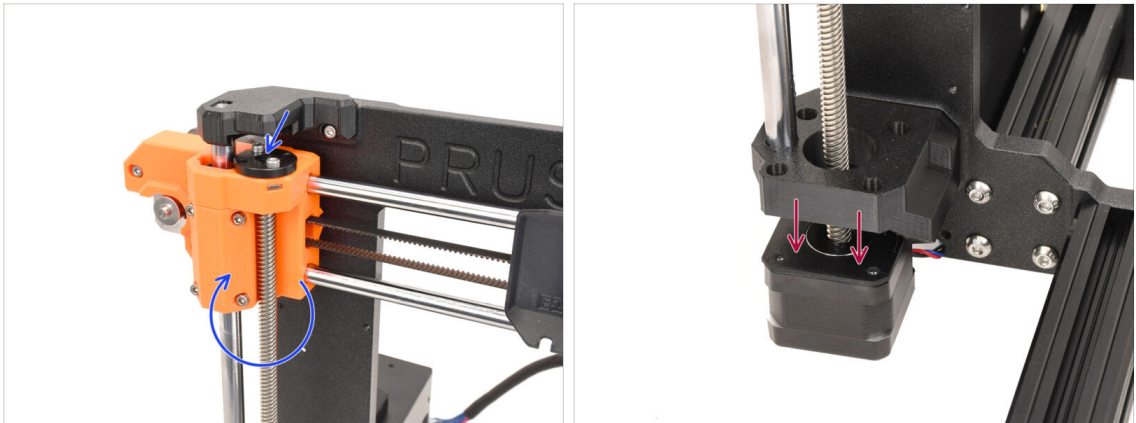
- Move onto the back of the X-carriage.
- Remove the two marked screws on top of the backing plate.
- Loosen the two remaining screws, but do not remove them entirely yet.
- Lekko unieś płytkę LoveBoard i odłącz główną wiązkę.
Zachowaj ostrożność, aby nie uszkodzić płytki LoveBoard.
- Wyciągnij płytkę LoveBoard i zachowaj ją do późniejszego użycia.

KROK 27 Z Motors Removal



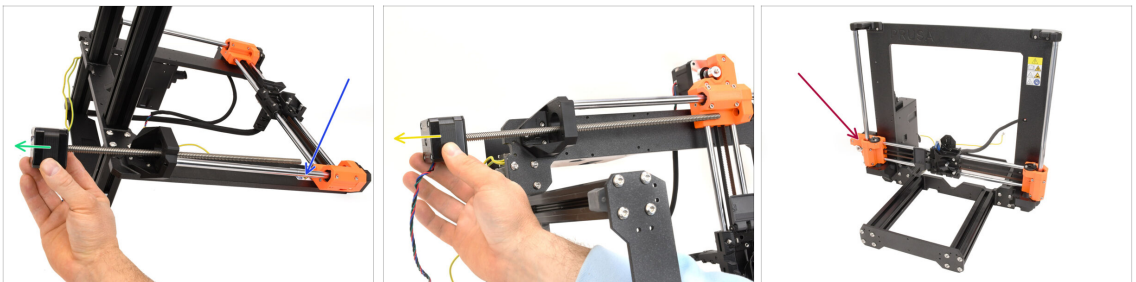
- Rotate both threaded rods by hand to move the X-axis assembly all the way to the top.
- Using a ball-end 2.5mm Allen key, remove all 4 screws securing the left Z motor.
- Remove the 4 screws holding the right Z motor as well.

KROK 28 Z Motors Removal 2



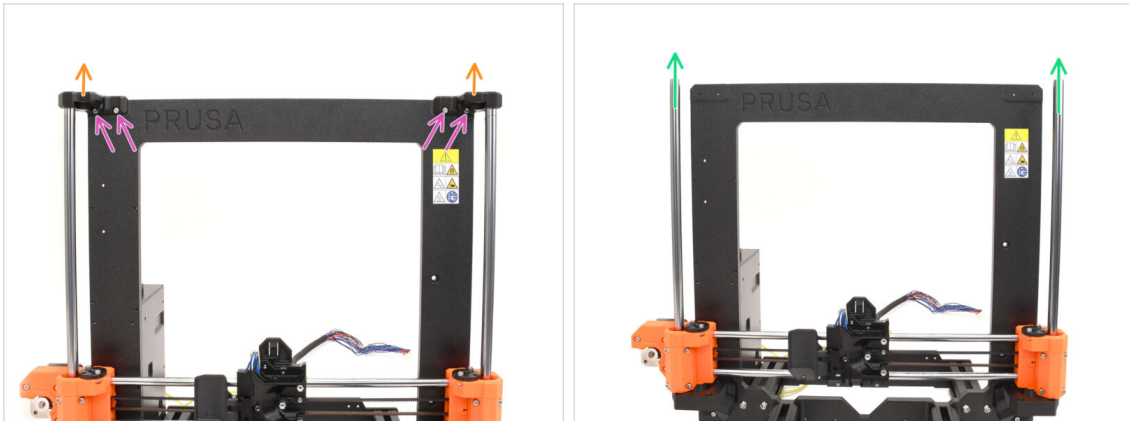
- Rotate the threaded rods on both sides to disengage both the motors from the trapezoid nuts on the X-End parts.
- Disengage the motors on both sides from the holders. The X-axis will drop slightly.

KROK 29 Z Motors Removal 3



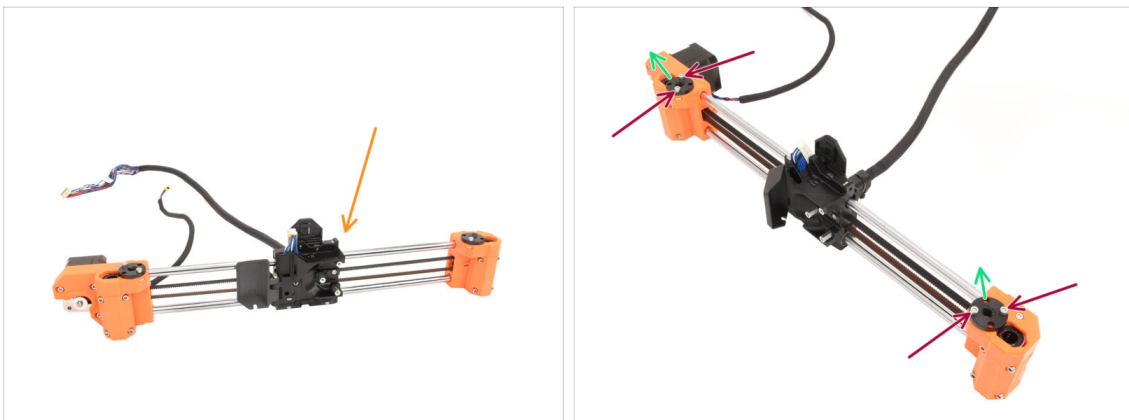
- Lay the frame onto its back part.
- Remove the right Z motor by sliding it out. **Save it for later use.**
- Remove the left Z motor. **Save it for later use.**
- Ustaw ramę z powrotem w pierwotnej pozycji. **Pamiętaj, że oś X będzie się teraz swobodnie poruszać i może gwałtownie opaść.**

KROK 30 Z Rods Removal



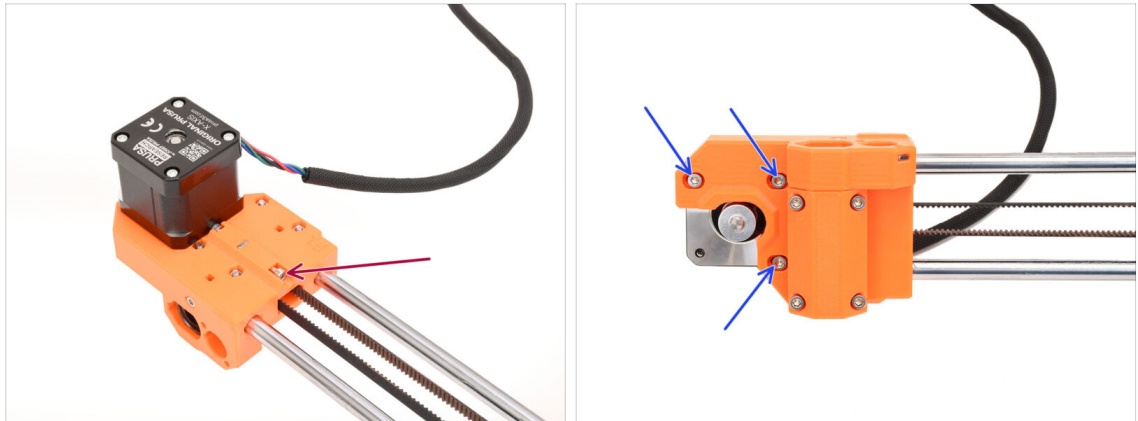
- ✿ Remove the four screws holding the Z-top parts on both sides.
- 🟠 Remove both Z-tops by pulling them up and disengaging from the rods.
- 🟢 Pull up both Z rods and remove them from the printer.
Save both rods for later use.
- 📌 Delikatne obracanie ich może pomóc w wyciągnięciu z plastikowych mocowań.

KROK 31 Trapeze Nut Removal



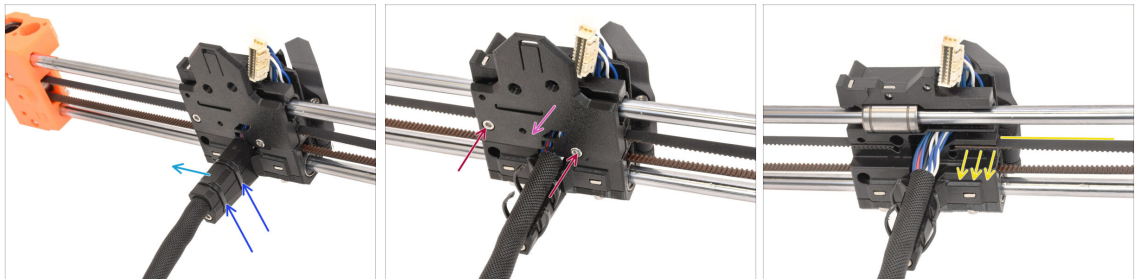
- 🟠 Remove the X-axis assembly from the printer's frame.
- 🔴 Remove the four screws holding the trapezoid nuts on top of both sides of the assembly.
- 🟢 Remove both the trapezoid nuts and **save them for later use.**
- 📌 Jeśli nakrętki stawiają opór przy wyciąganiu, spróbuj je obracać, jednocześnie pociągając do góry.
Jeśli to nie pomaga, ostrożnie użyj pręta gwintowanego silnika osi Z, aby je wybić.

KROK 32 X Motor Release



- On the back of the assembly, remove the belt tensioning screw
- Loosen the three screws holding the motor on the front.
- ⓘ We need to release the belt tension, in order to release the belt in the upcoming step.

KROK 33 X Belt Release



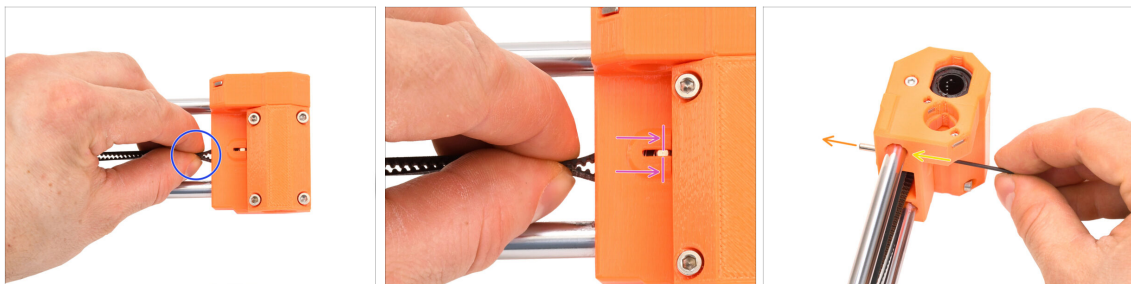
- On the back of the assembly, cut both the zip-ties holding the cable cover.
- Remove the cable cover.
- Remove both screws on the back of the X-carriage.
- Zdejmij pokrywę z tyłu wózka osi X.
- Wyciągnij koniec paska po stronie silnika, aby go zwolnić.

KROK 34 X Motor Removal



- Remove the three screws holding the X-motor at the front of the assembly.
- Remove the X-Axis motor and **save it for later use**.

KROK 35 X Idler Shaft Removal



- Let's move onto the right X-end part.
- Use the belt as a handle for the Idler pulley inside the plastic part.
- Move the Idler **all the way inward**.

On the front, there is a small window where you can observe the idler shaft movement.

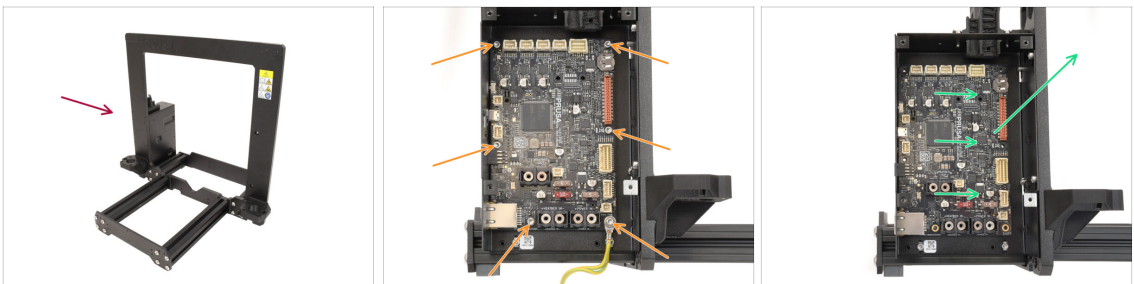
- Trzymając koło pasowe dociśnięte do końca, użyj najcieńszego klucza imbusowego 1,5 mm, aby wypchnąć trzpień z części.
- Trzpień koła pasowego powinien wyjść z plastikowej części po drugiej stronie. Wyciągnij go.

KROK 36 X Idler Removal



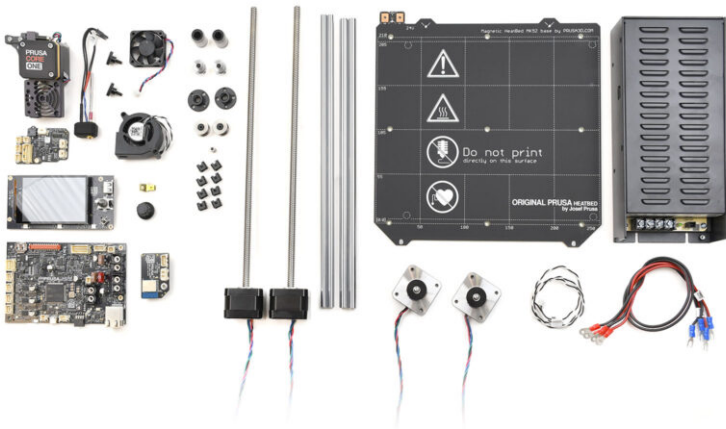
- Pull out the Idler pulley.
- Save the pulley for later use.

KROK 37 xBuddy Removal

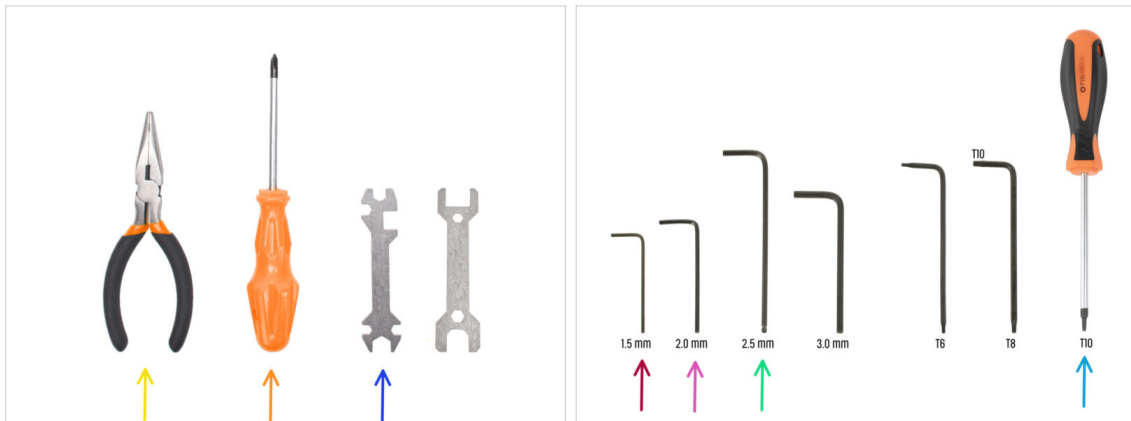


- Let's move back to the printer's frame.
- Remove the six screws holding the xBuddy board in place.
- Release the xBuddy by sliding it towards the frame, then lifting it. **Save it for later use.**

1D. Przygotowanie komponentów



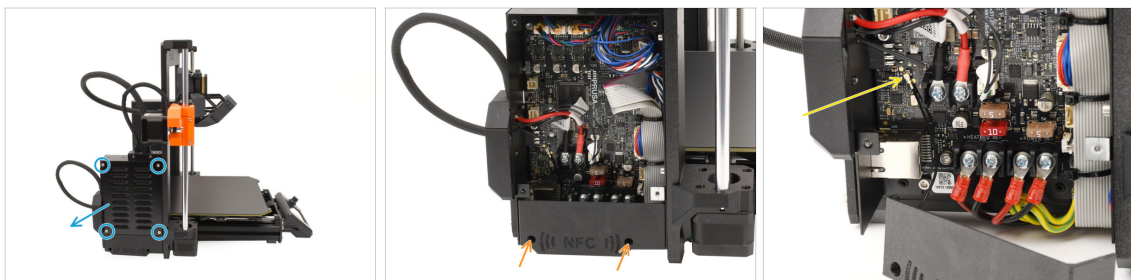
KROK 1 Tools Required



For this chapter, please prepare:

- Needle-Nose Pliers
- Phillips Screwdriver
- Universal wrench
- 1.5mm Allen key
- 2mm Allen key
- 2.5mm Allen key
- T10 Screwdriver

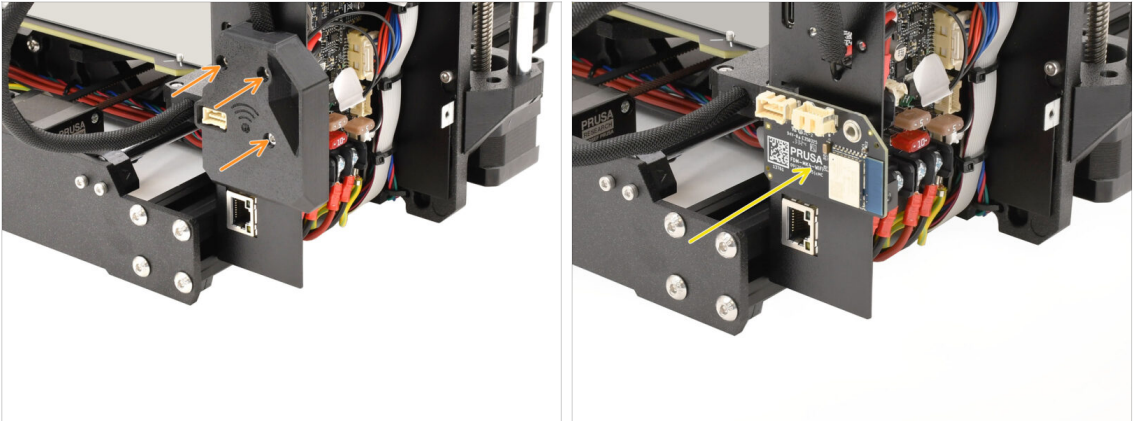
KROK 2 Electronics Disassembly



- Let's move onto the **left** side of the printer.
- Remove the four screws holding the xBuddy box cover and remove the cover.
- Using the 2.5mm Allen key, remove the two screws holding the NFC cover.
- Disconnect the NFC antenna from the xBuddy board by gently lifting the tiny connector.

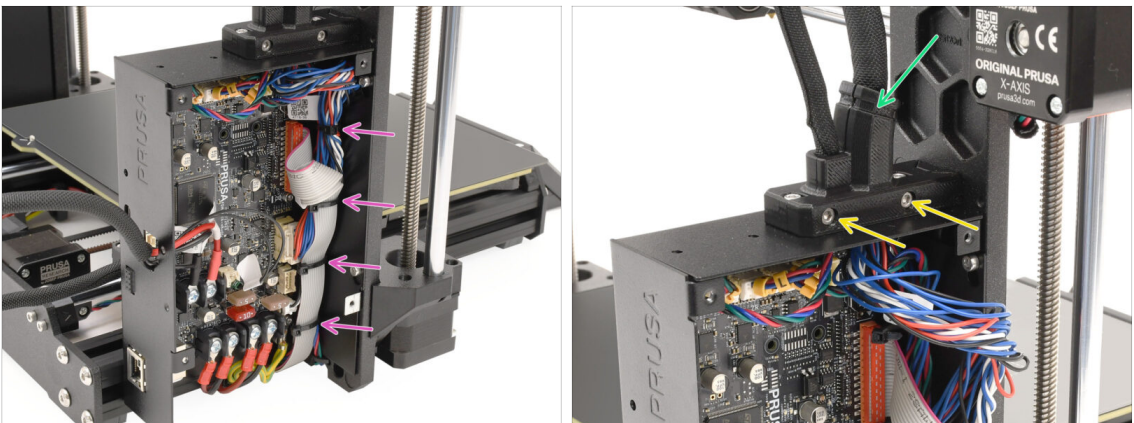
Then, remove the antenna along with the cover.

KROK 3 Wi-Fi Disassembly



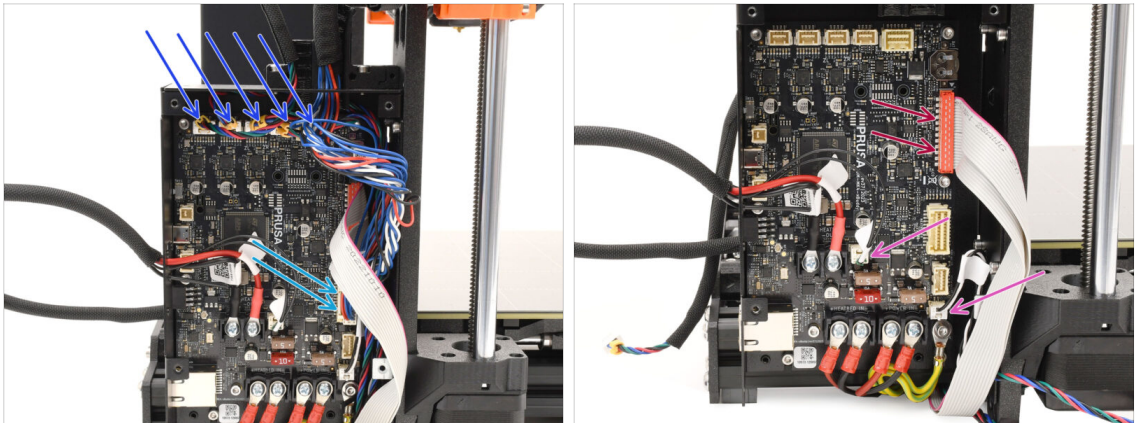
- ✚ On the back of the electronics box, remove the three screws holding the Wi-Fi cover and remove the cover.
- ✚ Remove the Wi-Fi module and **save it for later use**.
 - ⚠ Ensure you store the module and all electronic components in an ESD-safe environment to prevent damage!

KROK 4 Cable Bundle Disassembly



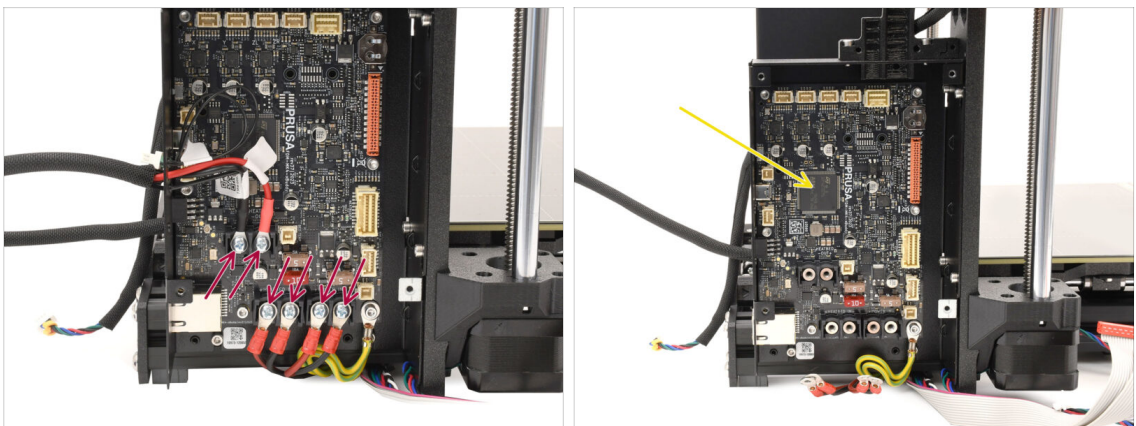
- ✚ Remove all the zip-ties securing the cable bundle inside the xBuddy box.
 - ⚠ When cutting the zip-ties, proceed carefully to prevent any damage to the cables or the electronics!
- ✚ Remove the two screws on the main cable holder.
- ✚ Cut the zip-tie holding the cover together, then remove the outer part of the holder.

KROK 5 Cables Disconnecting 1



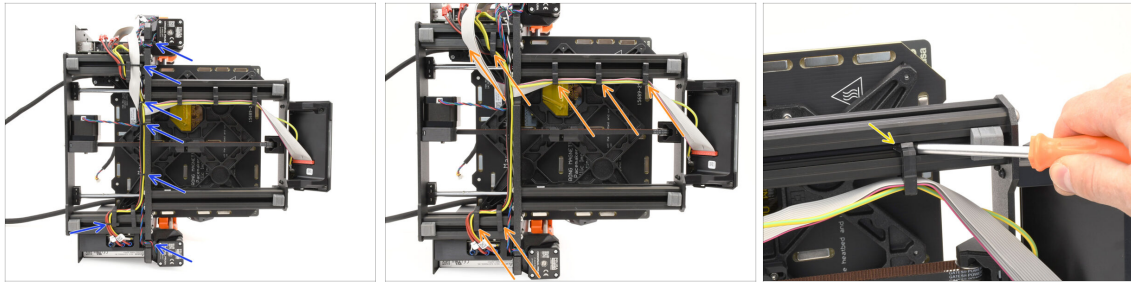
- ◆ Disconnect all the connectors on the top of the xBuddy board.
 - ⚠ There is a safety latch on each of these connectors, which must be pressed in order to disconnect it.
- ◆ Disconnect the extruder main cable connector.
- ◆ Disconnect the heatbed thermistor and power panic cables.
- ◆ Disconnect the xLCD connector by lifting it carefully up.

KROK 6 Cables Disconnecting 2



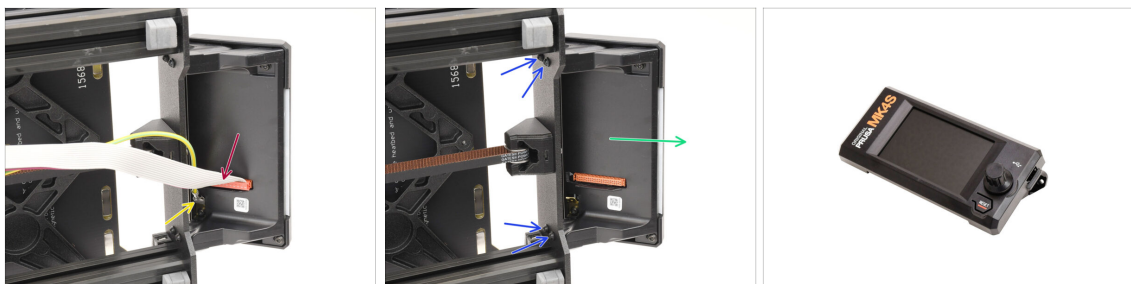
- ◆ Using the Phillips screwdriver, remove all the terminal screws holding the heatbed and power cable connectors.
- ◆ Leave the xBuddy board in the electronics box for now, as this way, it is well protected from damage.

KROK 7 Cable Budle Release



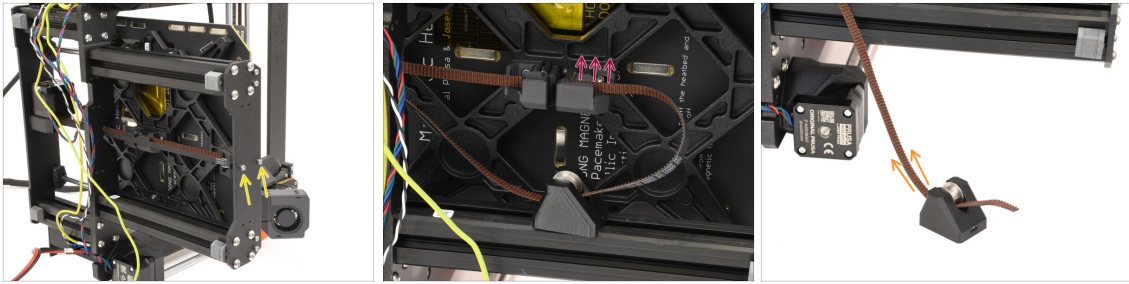
- Lay the printer onto the PSU side to access the bottom part.
- Carefully remove all the zip-ties holding the cable bundle
- Remove all the cable holders from the frame and detach them from the cables.
 - Pro tip: You can pry them off the metal profiles using the screwdriver.

KROK 8 xLCD Removal



- Disconnect the main cable from the xLCD by gently lifting the connector up.
- Disconnect the grounding cable.
- Using the T10 screwdriver, remove the four screws holding the xLCD assembly.
- Remove the xLCD assembly and **save it for later use!**

KROK 9 Y Idler Removal



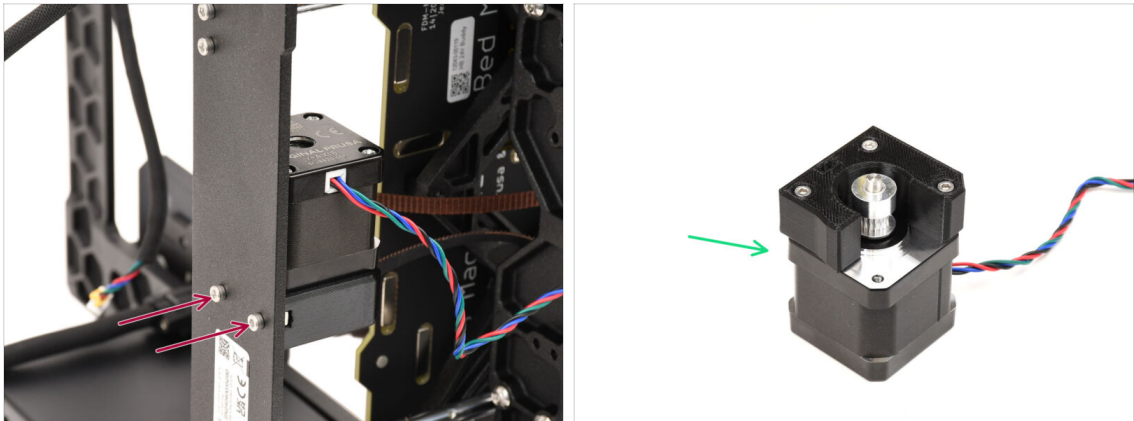
- ✦ Using the 2.5mm Allen key, remove the two screws holding the Y-Axis Idler on the front plate.
- ✦ Pull the end of the Y-axis belt out of the holder at the bottom of the heatbed to disengage it.
- ✦ Remove the belt from the idler by pulling it out.

KROK 10 Idler Pulley Removal



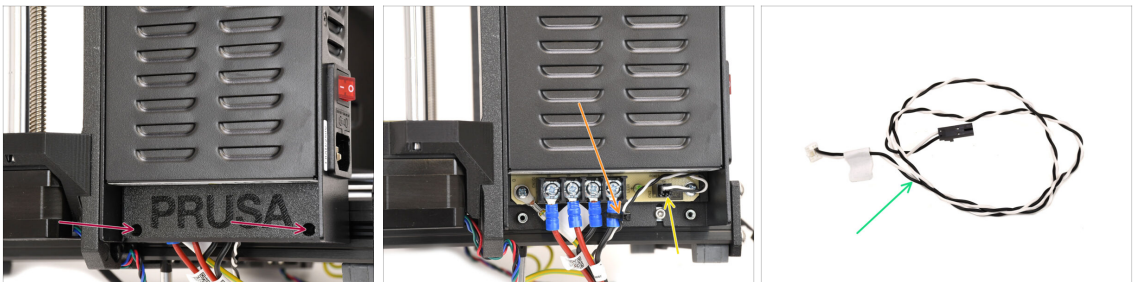
- ✦ Orient the Y-Idler as shown in the picture.
Remove the pulley by first moving it inward, then pulling it out to the side.
Refer to the groove pattern in the picture for the correct trajectory.
- ✦ Remove the center shaft from the pulley.
- ✦ **Save the pulley for later use.**

KROK 11 Y Motor Removal



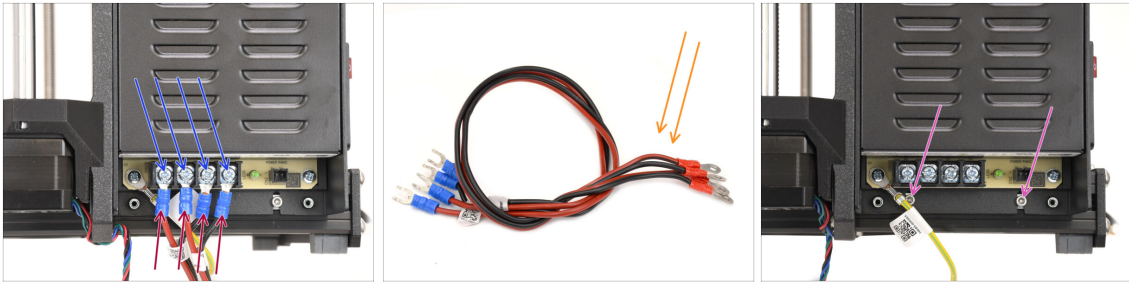
- Remove the two screws on the back of the printer, holding the Y-axis motor in place.
- Remove the Y-axis motor assembly and **save it for later use**.

KROK 12 Power Panic Cable Removal



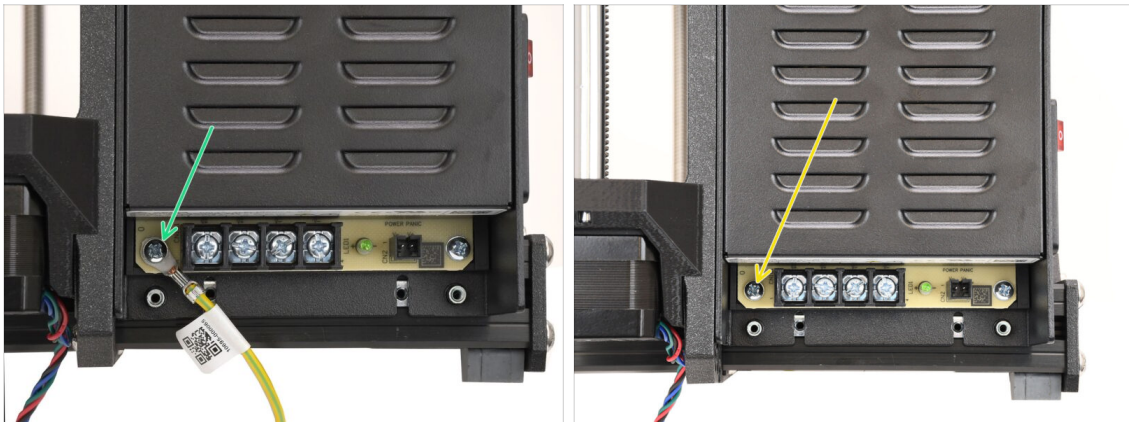
- Let's move onto the right side of the printer carcass, where the PSU lives.
- Remove the two screws securing the cover, then take off the cover.
- Carefully cut off the zip-tie holding the power panic cable.
- Save the power panic cable for later use.**
- i** The power panic cable may look different, depending on your xBuddy board version.

KROK 13 Power Cable Removal



- Using the Phillips screwdriver, loosen the four power terminal screws. Do not remove them entirely.
- Remove the four power cable connectors by pulling them downward.
- Remove the power cables and **save them for later use**.
- Using the 2.5mm Allen key, remove the two screws holding the PSU to the printer's frame.

KROK 14 PSU Removal 1



- Remove the screw holding the grounding cable to the PSU.
- Disconnect the grounding cable—it will no longer be needed.
- Re-install the screw you previously removed.

KROK 15 PSU Removal 2

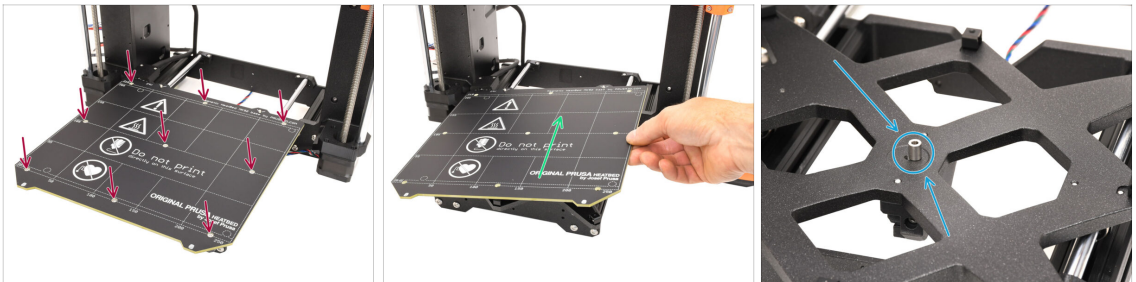


- On the front of the frame, remove the two screws holding the PSU.

⚠ The PSU might fall off to the side!

- Remove the PSU and **save it for later use.**

KROK 16 Heatbed Removal



- Let's move onto the heatbed.

- Using the T10 Torx screwdriver, remove all 9 screws holding the heatbed.

- Remove the heatbed by lifting it up. **Save it for later use.**

- There is a spacer in the middle of the heatbed. Make sure to save it for later use too!

📌 Be careful and store the heatbed on a soft surface to prevent scratching it.

KROK 17 Y-Axis Removal



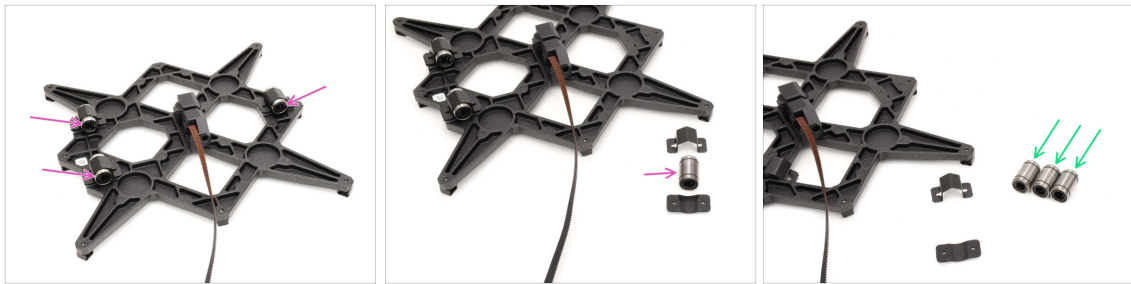
- Using the 2.5mm Allen key, remove the four screws holding the Y-axis rods to the front of the frame.
- Remove the four screws holding the Y-axis rods to the back of the frame.
- Remove the whole Y-axis assembly from the printer's frame.

KROK 18 Y-Axis Disassembly



- Remove the four screws fixing the rods to the Y-rod holders. Then, remove the plastic rod holders.
- Turn the assembly around.
- Pull out both the Y-axis rods. Clean them up and **save them for later use**.
- Remove all the screws holding the bearings to the carriage.

KROK 19 Bearings Removal



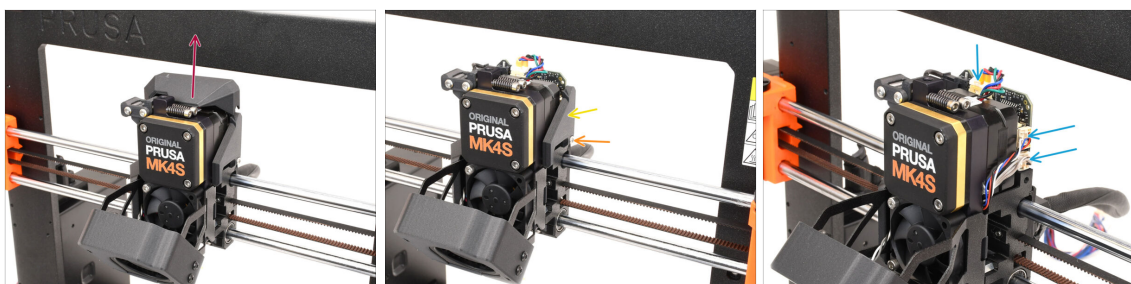
- ◆ Remove all three bearings from the bearing holders.
- ◆ Clean the bearings from any excess grease or dirt, and **save them for later use**.
- ❗ Two of this type of bearings will be used to build the CORE One.

KROK 20 Expansion Joint Removal



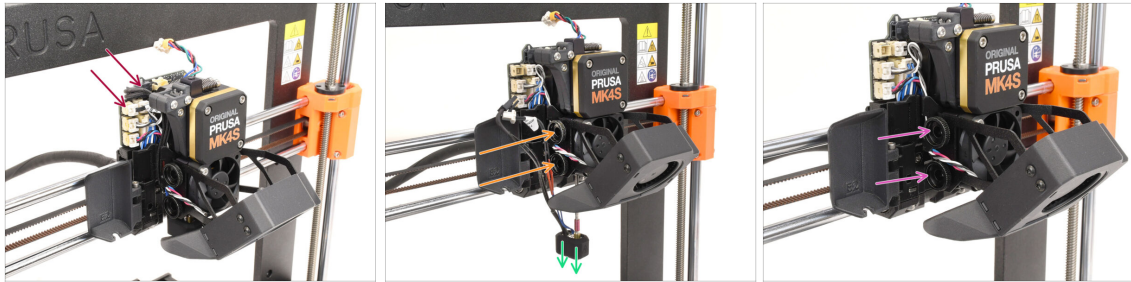
- ◆ Using the 2mm Allen key, remove all 8 expansion joints from the Y-Carriage.
- ◆ **Save the expansion joints for later use.**

KROK 21 Extruder Cover Removal



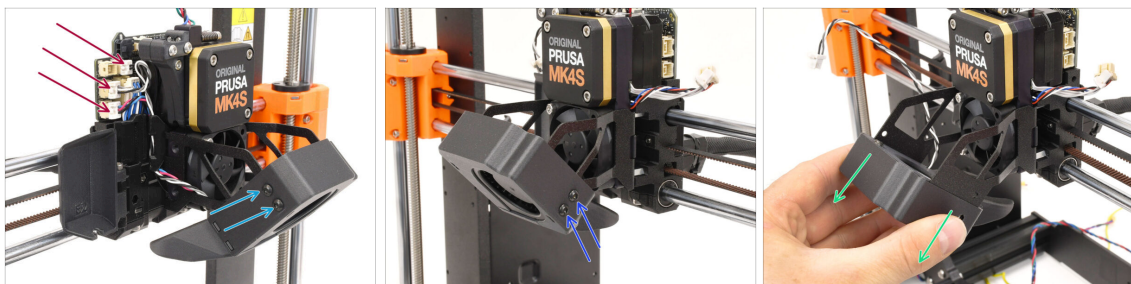
- ◆ Let's move onto the extruder.
- ◆ Remove the top cover on the extruder by lifting it up.
- ◆ Remove the screw holding the cover on the right side.
- ◆ Remove the side cover.
- ◆ Disconnect the motor, filament sensor and loadcell cables.

KROK 22 Hotend Assembly Removal



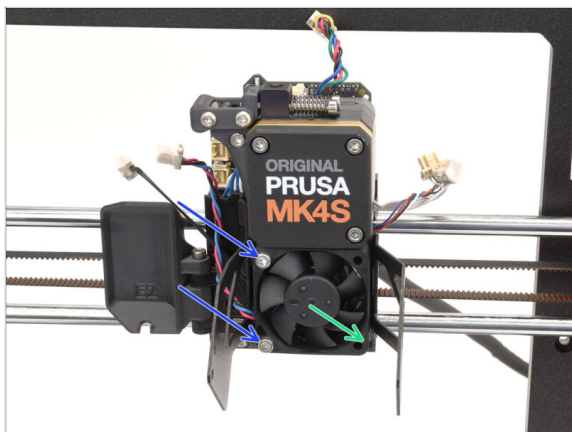
- ◆ On the opposite side, disconnect the nozzle thermistor and nozzle heater cables.
- ◆ Release the two thumb screws, until the hotend assembly drops.
- ◆ Remove the hotend assembly and **save it for later use**.
- ◆ Remove the two thumb screws and save them for later use.

KROK 23 Print Fan Removal



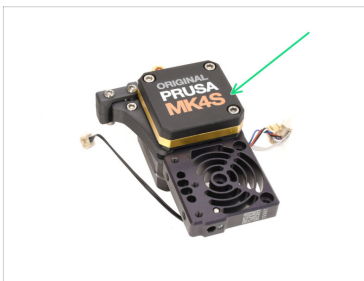
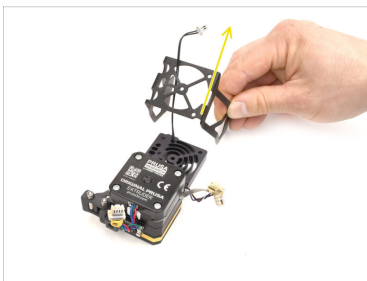
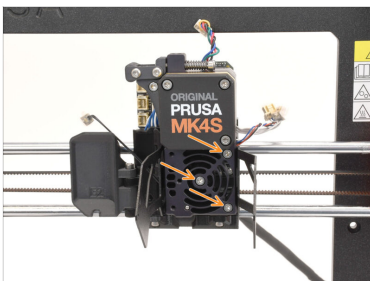
- ◆ Disconnect the cables on the left side of the Nextruder.
- ◆ Using the T10 screwdriver, remove the two screws holding the print fan on the left side.
- ◆ Remove the two screws on the right.
- ◆ Remove the print fan assembly by sliding it out. Proceed carefully to prevent damaging the cable going through the metal holder. **Save the fan assembly for later use!**

KROK 24 Heatsink Fan Removal



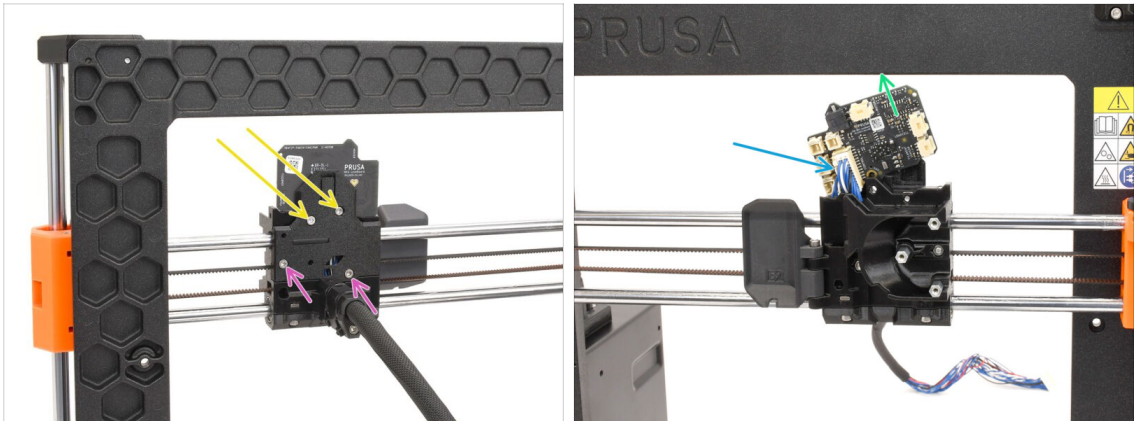
- Remove the two screws holding the hotend fan to the heatsink.
- Wyciągnij wentylator i **zachowaj go do późniejszego użycia.**
- 📌 Proceed carefully to prevent damaging the cable.

KROK 25 Nextruder Removal



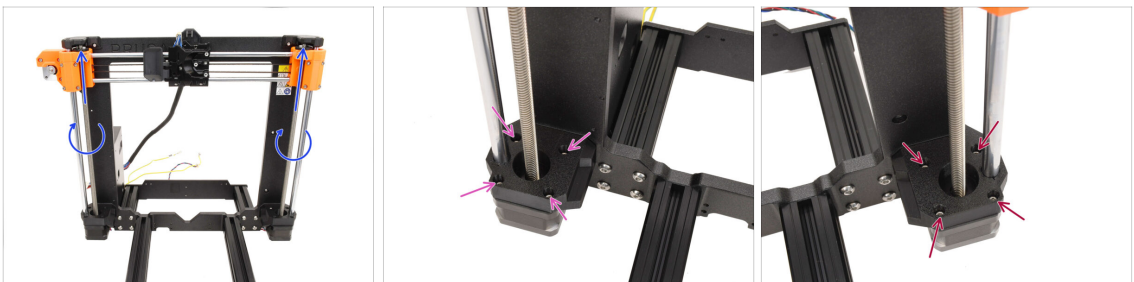
- Remove the three screws holding the Nextruder to the X-carriage.
- ⚠️ **Uważaj! Nextruder może wypaść!**
- Remove the Nextruder from the printer.
- Remove the Print fan support and a plastic spacer (if present). Proceed carefully to prevent damaging the heatsink thermistor cable.
- **Save the Nextruder for later use.**

KROK 26 LoveBoard Removal



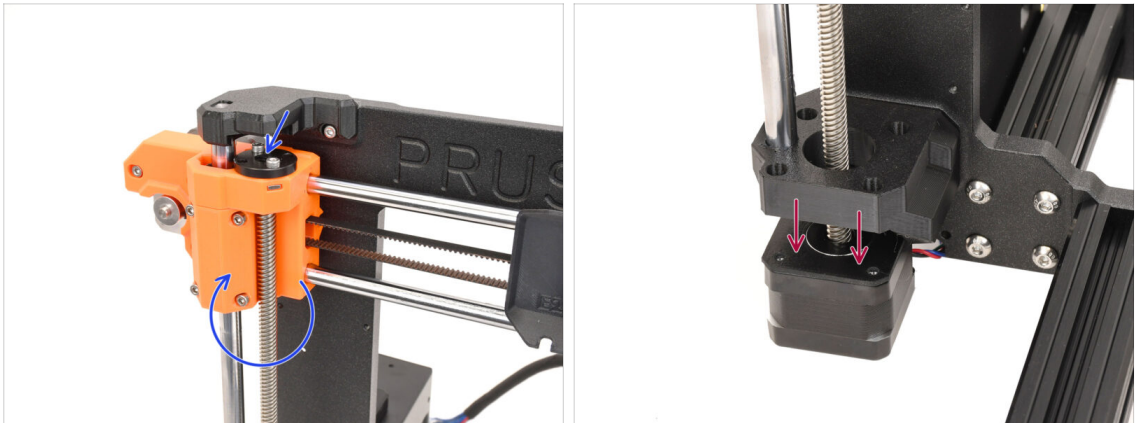
- Move onto the back of the X-carriage.
- Odkręć dwie zaznaczone śruby na górze mocowania.
- Loosen the two remaining screws, but do not remove them entirely yet.
- Lift the Loveboard slightly to disconnect it from the main cable. Proceed carefully to prevent any damage to the Loveboard.
- Remove the Loveboard and save it for later use.

KROK 27 Z Motors Removal



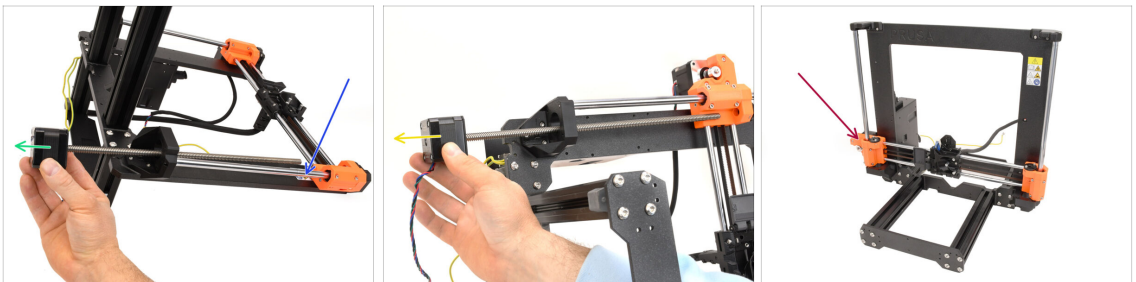
- Rotate both threaded rods by hand to move the X-axis assembly all the way to the top.
- Za pomocą klucza imbusowego 2,5 mm z końcówką kulistą, wykręć wszystkie 4 śruby mocujące lewy silnik osi Z.
- Remove the 4 screws holding the right Z motor as well.

KROK 28 Z Motors Removal 2



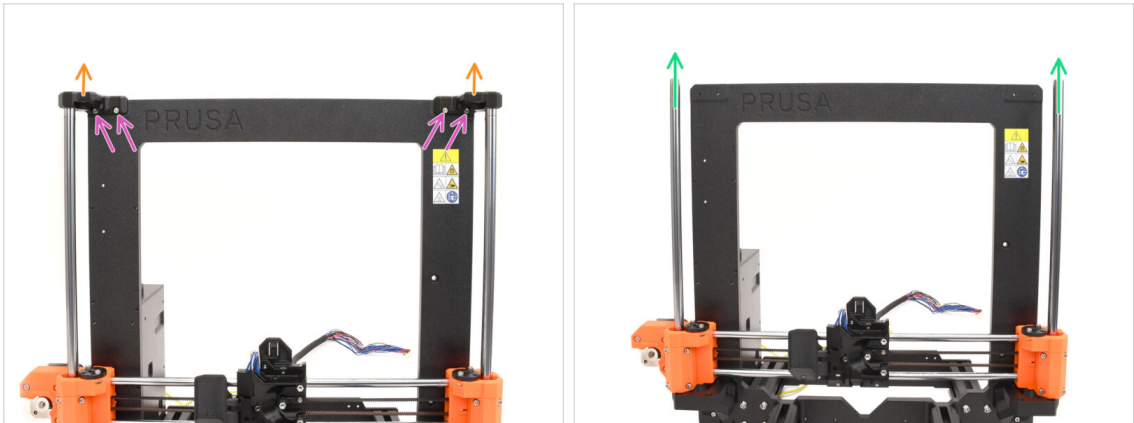
- Rotate the threaded rods on both sides to disengage both the motors from the trapezoid nuts on the X-End parts.
- Disengage the motors on both sides from the holders. The X-axis will drop slightly.

KROK 29 Z Motors Removal 3



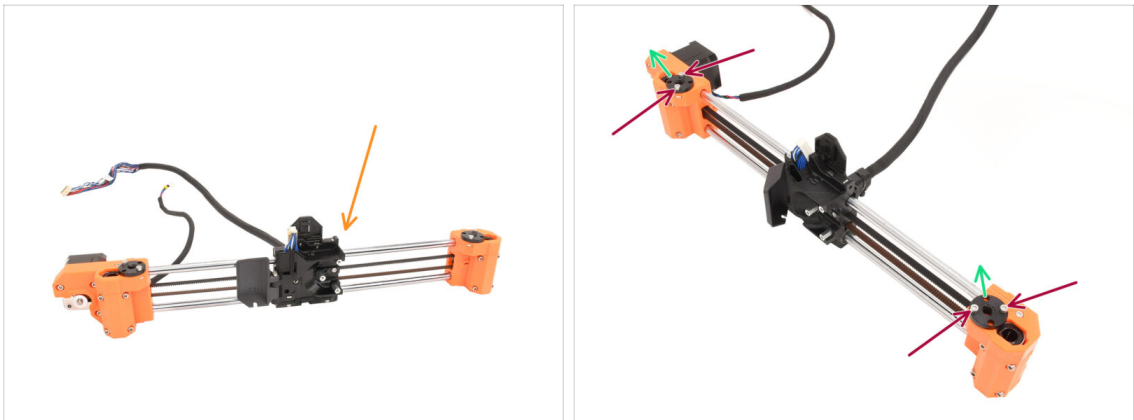
- Lay the frame onto its back part.
- Remove the right Z motor by sliding it out. **Save it for later use.**
- Remove the left Z motor. **Save it for later use.**
- Move the frame back to the original position. **Expect that the X-axis now moves freely and may fall rapidly.**

KROK 30 Z Rods Removal



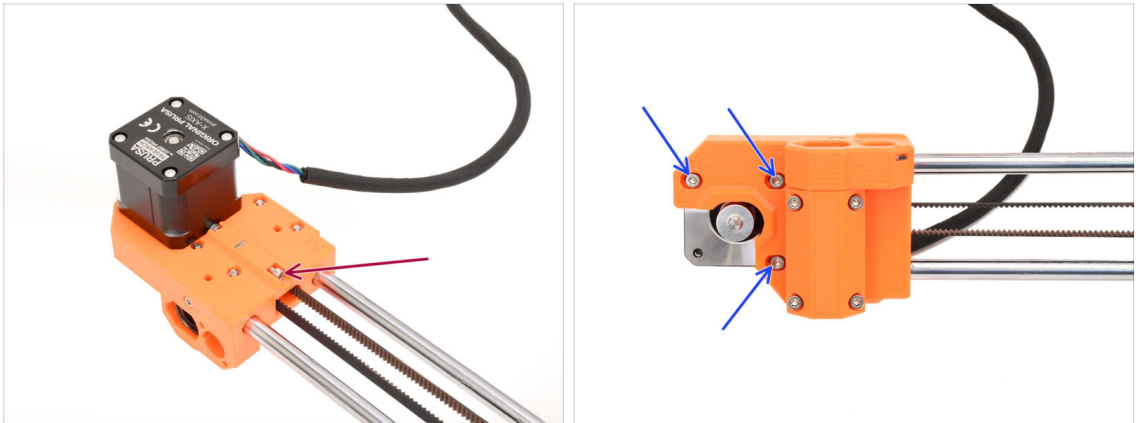
- ✿ Remove the four screws holding the Z-top parts on both sides.
 - 🟠 Remove both Z-tops by pulling them up and disengaging from the rods.
 - 🟢 Pull up both Z rods and remove them from the printer.
Save both rods for later use.
- ❗ A slight wiggling motion may help to disengage them from the plastic part.

KROK 31 Trapeze Nut Removal



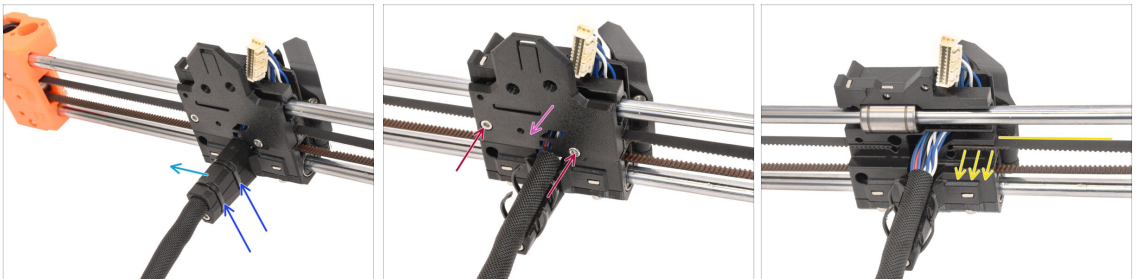
- 🟠 Remove the X-axis assembly from the printer's frame.
 - 🔴 Remove the four screws holding the trapezoid nuts on top of both sides of the assembly.
 - 🟢 Remove both the trapezoid nuts and **save them for later use.**
- ❗ If the nuts are hard to remove, try rotating them, while pulling them up.
If that doesn't help, carefully use the threaded rod on one of the Z-motors, to pry them out.

KROK 32 X Motor Release



- On the back of the assembly, remove the belt tensioning screw
- Loosen the three screws holding the motor on the front.
- ⓘ We need to release the belt tension, in order to release the belt in the upcoming step.

KROK 33 X Belt Release



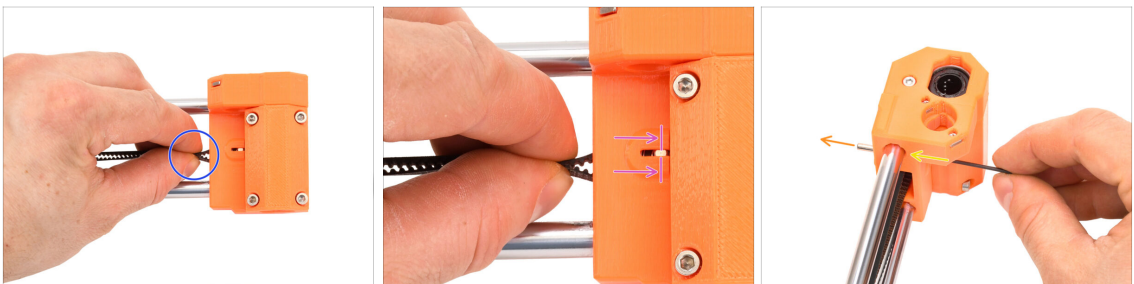
- On the back of the assembly, cut both the zip-ties holding the cable cover.
- Remove the cable cover.
- Remove both screws on the back of the X-carriage.
- Remove the cover on the back of the X-carriage.
- Pull out the end of the belt on the motor side, to disengage it.

KROK 34 X Motor Removal



- Remove the three screws holding the X-motor at the front of the assembly.
- Remove the X-Axis motor and **save it for later use**.

KROK 35 X Idler Shaft Removal



- Let's move onto the right X-end part.
- Use the belt as a handle for the Idler pulley inside the plastic part.
- Move the Idler **all the way inward**.

On the front, there is a small window where you can observe the idler shaft movement.

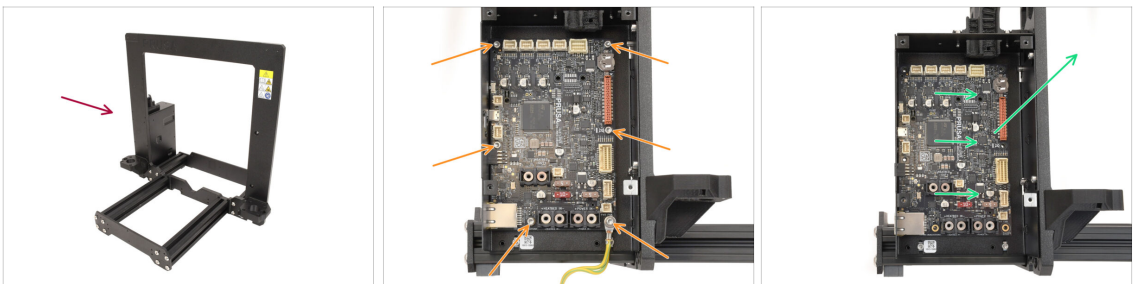
- While keeping the idler pushed all the way in, use the thinnest 1.5mm Allen key to push the shaft out of the part.
- The Idler shaft should exit the plastic part at the back. Remove it.

KROK 36 X Idler Removal



- Pull out the Idler pulley.
- Save the pulley for later use.

KROK 37 xBuddy Removal

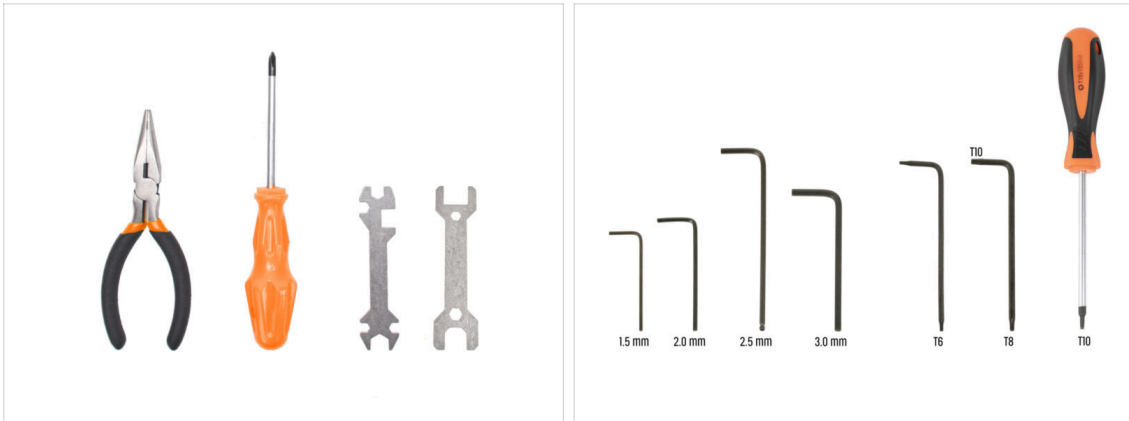


- Let's move back to the printer's frame.
- Remove the six screws holding the xBuddy board in place.
- Release the xBuddy by sliding it towards the frame, then lifting it. **Save it for later use.**

2. Montaż podstawy

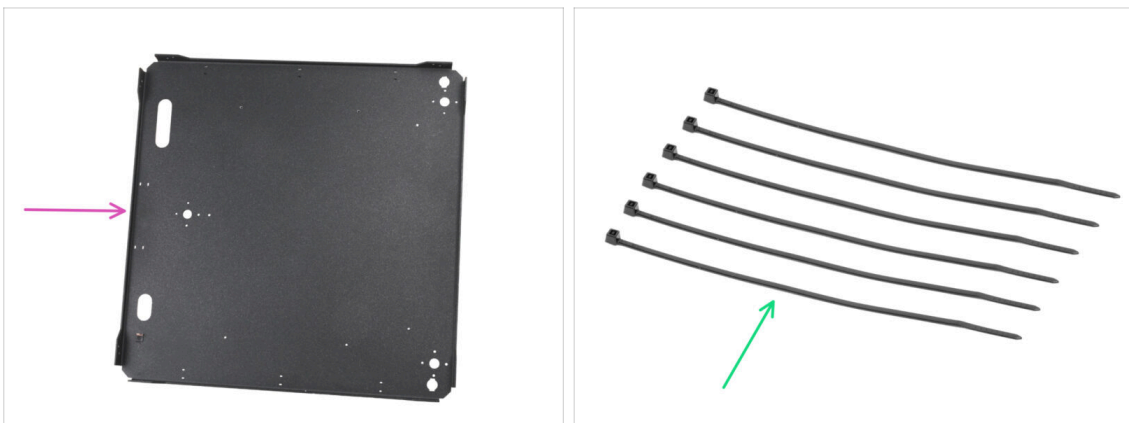


KROK 1 Tools necessary for this chapter



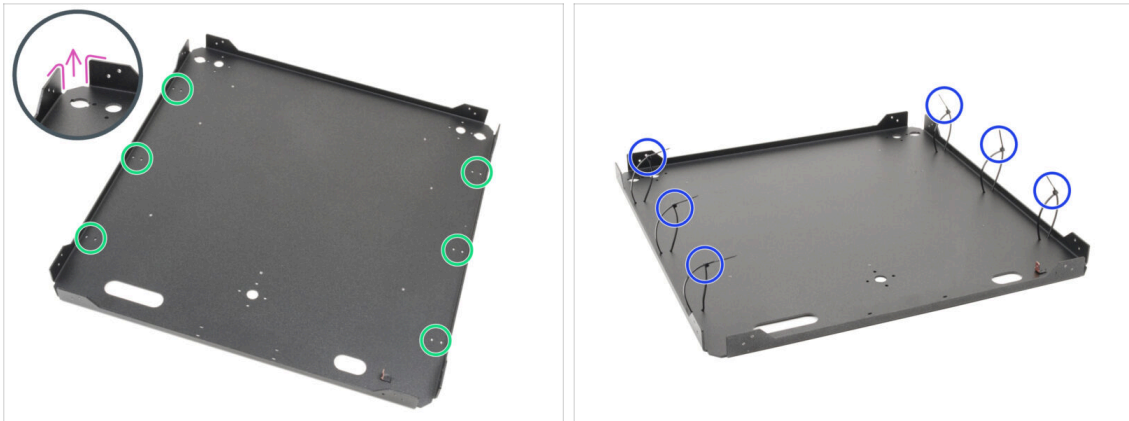
- Do tego rozdziału przygotuj:
- Wrench 13-16
- 2.5mm Allen key
- T10 torx key / T10 torx screwdriver

KROK 2 Base assembly: parts preparation



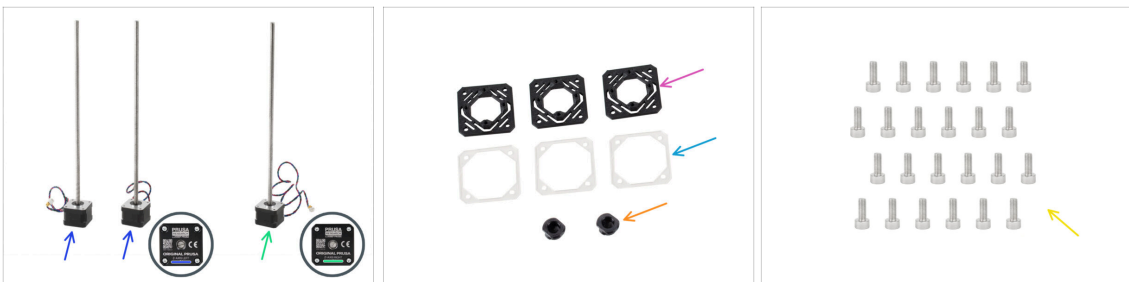
- Do kolejnych etapów przygotuj:
- Bottom panel [panel dolny] (1x) znajduje się w pakiecie *Metal parts 1/3*
- Opaska zaciskowa (6x) znajdują się w pakiecie *Electronics & Fasteners*

KROK 3 Inserting the zip ties



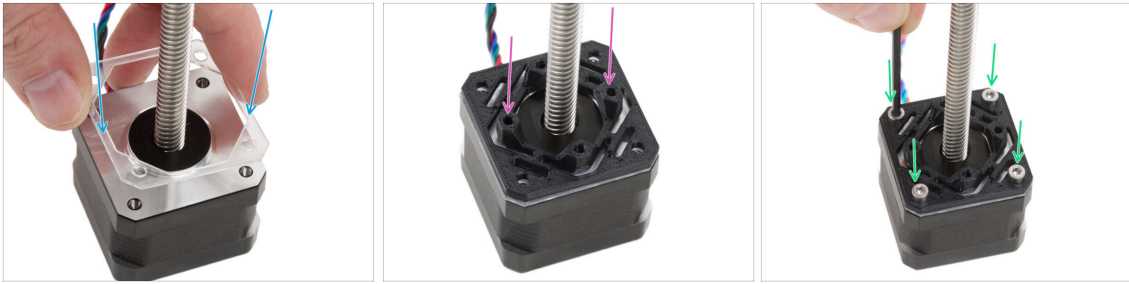
- ✿ Obróć dolny panel tak, aby zagięcia były skierowane do góry.
- ✿ Zwróć uwagę na podwójne otwory na opaski zaciskowe na obwodzie panelu.
- ✿ Przełóż sześć opasek zaciskowych przez otwory po obu stronach i częściowo zaciśnij, zaczepiając tylko kilka pierwszych ząbków.
- ⚠ **Do not fully secure them yet, as we will route cables through them later.**
- ℹ Note: The orientation of the zip tie heads (inside or outside the metal sheet) doesn't matter.

KROK 4 Base assembly: parts preparation



- ✿ **Do kolejnych etapów przygotuj:**
- ✿ Lewy silnik osi Z (2x)
 - 📌 One of these motors is in the electronics & chamber parts box.
- ✿ Z-axis right motor (1x)
- ✿ Z-motor-mount (3x) *found in the Printed parts package*
- ✿ Motor washer (3x) *found in the Electronics & Chamber parts package*
- ✿ Z-rod-mount (2x) *found in the Printed parts package*
- ✿ M3x8 screw (24x) *found in the Electronics & Fasteners package.*

KROK 5 Installing the motor mounts



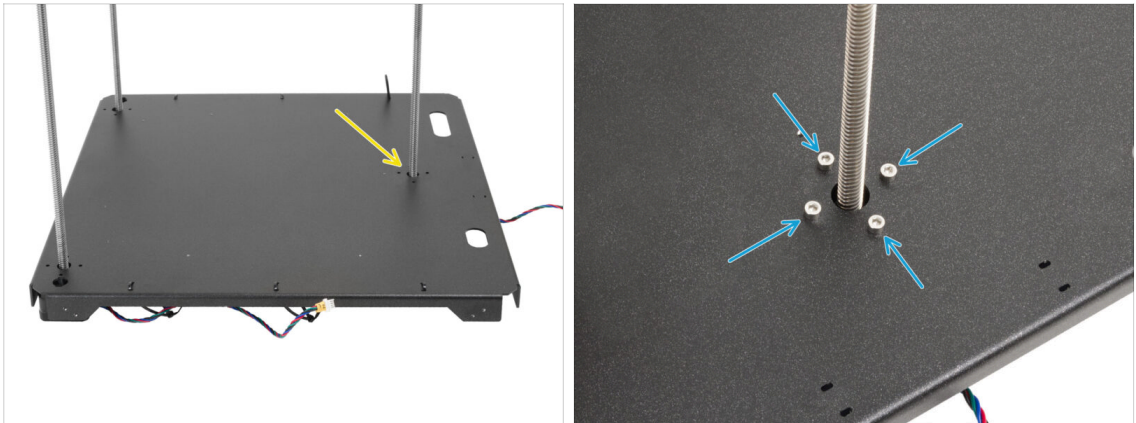
- Załóż po jednej przezroczystej podkładce silnika na każdy silnik Z.
- Umieść jedno mocowanie silnika Z na każdej podkładce silnika. **Wystające części muszą być skierowane do góry.**
- Align holes with all the parts.
- Join all parts together with four M3x8 screws.
- Follow the same procedure for all motors.

KROK 6 Installing the rear motor



- Odwróć dolny panel.
- Zlokalizuj okrągły otwór na środku tylnej strony panelu.
- Take the **Z motor right** - the motor with the longest cable. Labeled ZR on the cable.
- Push the motor threaded rod through the panel and align the holes in the panel with the holes in the motor assembly.
- ⚠ **The motor cable must point outwards (towards you).**
- Push both Z-axis motor left through the bottom panel.
- **The motor cables must point to the rear motor side.**
- ❗ In the following instructions, we will refer to the **front** and **rear** sides of the assembly. The **front side has TWO motors**, while the **rear side has ONE motor**. We will remind you along the way, but it's good to keep this in mind :).

KROK 7 Securing the rear motor



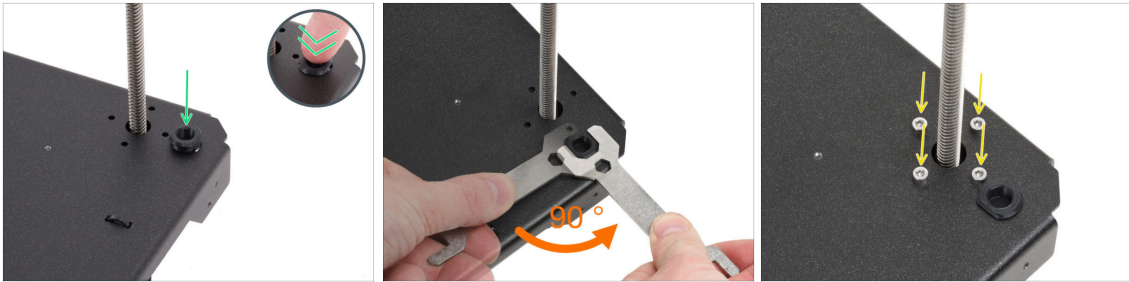
- 🟡 Rozpocznij przykręcanie silników, zaczynając od tylnego.
- 🔵 Wsuń i całkowicie dokręć cztery śruby M3x8 do **tylnego silnika**.
 - ⚠️ Make sure the screws stay straight and do not tilt as you tighten them.
 - ⚠️ Do not overtighten the screws, as they thread directly into the plastic part. For a final tightening, use the shorter part of the key as a handle to apply the correct amount of torque.

KROK 8 Installing the front motor right



- 🟡 Najpierw umieść mocowanie pręta osi Z [Z-rod-mount] w otworze obok przedniego prawego silnika Z.
- 🟠 Za pomocą klucza 13-16 obróć mocowanie o 90 stopni, blokując je na miejscu.
- 🟢 Secure the motor using four M3x8 screws. Tighten them completely.
 - ⚠️ Make sure the screws stay straight and do not tilt as you tighten them.

KROK 9 Installing the front motor left



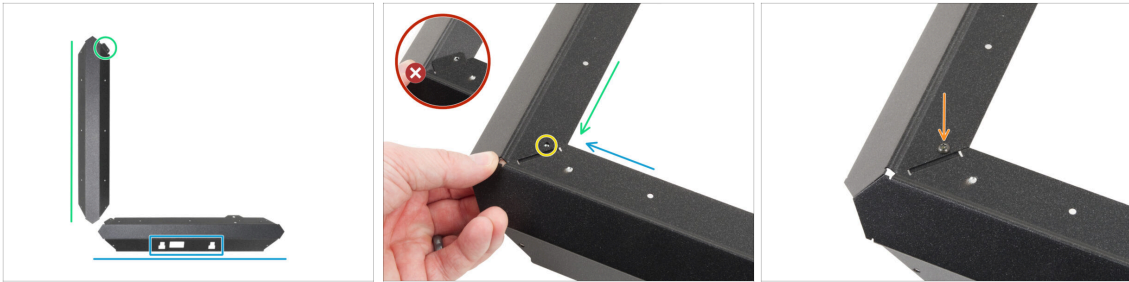
- Przejdźmy teraz do przedniego lewego silnika (patrząc od przodu).
- ⚠ **Upewnij się, że przewód silnika jest nadal skierowany do tyłu.**
- Insert the rod-mount into the opening next to the front right Z motor.
- Use the 13-16 wrench to rotate the rod mount 90 degrees, locking it into place.
- Secure the motor using four M3x8 screws. Tighten them completely.
- ⚠ **Make sure the screws stay straight and do not tilt as you tighten them.**
- Place the whole assembly aside for a while.

KROK 10 Bottom frame: parts preparation



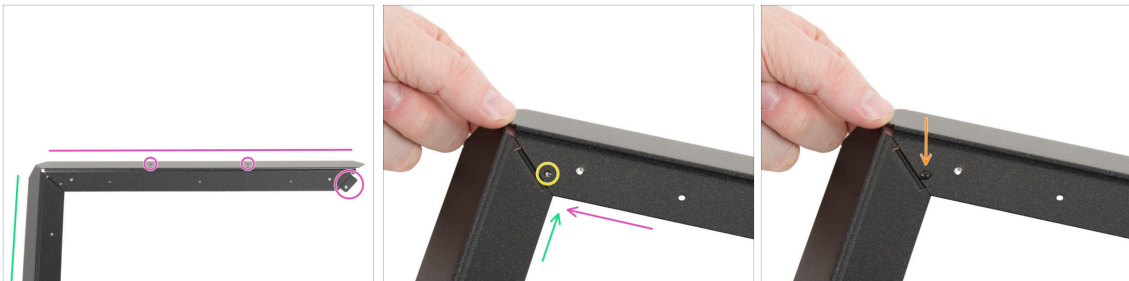
- Do kolejnych etapów przygotuj:
- ⚠ **Zachowaj szczególną ostrożność podczas obchodzenia się z ostrymi częściami blaszanymi, aby uniknąć obrażeń lub uszkodzeń.**
- ⚠ **Metal sheet profiles may look identical at first glance, but there are some differences. DOUBLE-CHECK to pick the correct ones.**
- Front profile (1x) **notice the cutouts** - found in the Metal parts 1/3 package
- Rear profile (1x) **with two holes on the flat side** - found in the Metal parts 1/3 package
- Universal profile (2x) **no holes on the flat side** - found in the Metal parts 1/3 package
- Spacer pin (2x) found in the Electronics & Fasteners package
- M3x4rT screw (4x)

KROK 11 Assembling the bottom profile: front + left



- ⚠️ Zachowaj szczególną ostrożność podczas obchodzenia się z ostrymi częściami blaszanymi, aby uniknąć obrażeń lub uszkodzeń.
- 🔵 Połóż przedni profil tak, jak na ilustracji. Wycięcia muszą być skierowane w Twoją stronę.
- 🟢 Place one of the universal profiles on the left side. Orient the part according to the picture. **Use the flange as a guide.**
- ⬛ Attach the two profiles together.
 - ⚠️ The flange of the front plate (blue arrow) must be inserted **under** the left universal profile (green arrow), not on top of it.
- 🟡 Align the holes in both parts.
- 🟠 Join both parts together with the M3x4rT screw.

KROK 12 Assembling the bottom profile: left + rear



- 🟡 Umieść tylny profil (z dwoma otworami po płaskiej stronie) na uniwersalnym lewym profilu zgodnie z ilustracją. **Użyj zakładki jako odniesienia.**
- ⬛ Połącz profil tylny z lewym profilem uniwersalnym.
 - ⚠️ Make sure the flange is under the rear profile, not on top.
- 🟡 Align the holes in both parts.
- 🟠 Join both parts together with the M3x4rT screw.

KROK 13 Assembling the bottom profile: right



- Zamocuj prawy profil uniwersalny między profilem tylnym i przednim. **Upewnij się, że:**
 - **Końcówka** jest **nad** zakładką tylnego profilu.
 - The **front** flange is inserted **under** the front profile.
- Secure the left profile with M3x4rT on both ends.

KROK 14 Inserting the spacer pins



- Umieść kołek dystansowy w otworze w przednim występie profilu.
- Dobrze dociśnij kołek dystansowy, aby wpasował się w otwór.
- Use the same procedure for the second spacer pin.

KROK 15 Anti-vibration feet: parts preparation



Do kolejnych etapów przygotuj:

- Stopy antywibracyjne (4x) znajdują się w pakiecie *Electronics & Chamber*
- M3x4rT screw (8x)

KROK 16 Installing the anti-vibration feet



- Połóż dolną ramę tak, jak na ilustracji. Przedni profil musi być skierowany w Twoją stronę.



Przed zamontowaniem nóżek antywibracyjnych **przetrzyj profile alkoholem izopropylowym** i pozostaw je do wyschnięcia. Zapewni to odpowiednią przyczepność.

- Peel off the protective layer from all anti-vibration feet.

⚠ Carefully peel off **only the protective film** from each anti-vibration foot. If the adhesive layer starts to come off with the film, stop and peel from a different corner.

- Stick one anti-vibration foot in each corner of the frame. Align it with the outer edge of the flat side of the profile.

KROK 17 Installing the bottom frame



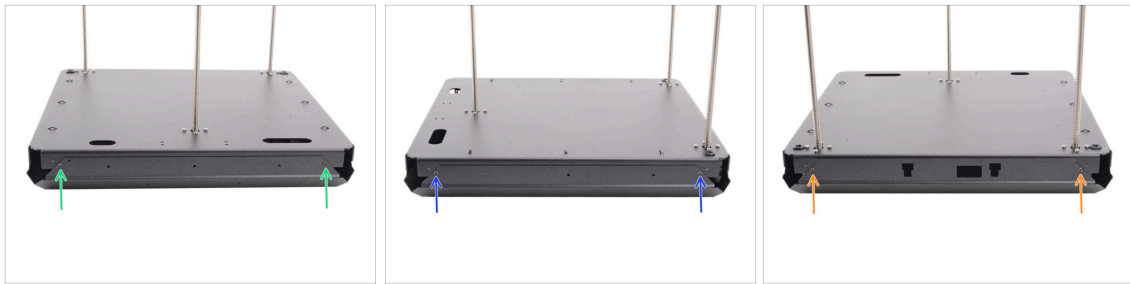
- Odwróć dolną ramę do góry nogami. **Przedni profil musi być skierowany w Twoją stronę.**
- Połóż tylną część zespołu panelu dolnego na tylnej części ramy dolnej.
 - Ensure that the front side of the bottom panel assembly (with two motors) aligns with the front profile of the bottom frame (with cutouts).
- Place all the motor cables inside the center area of the bottom frame to prevent pinching.
- Slowly and carefully lower the bottom panel assembly into the bottom profile.
 - Ensure the assembly fits completely **inside the bottom profile**.
 - Make sure no part of the bottom panel assembly extends outside the bottom frame
- ⚠ **Double-check that no cables are pinched.**

KROK 18 Mounting the bottom frame: right side



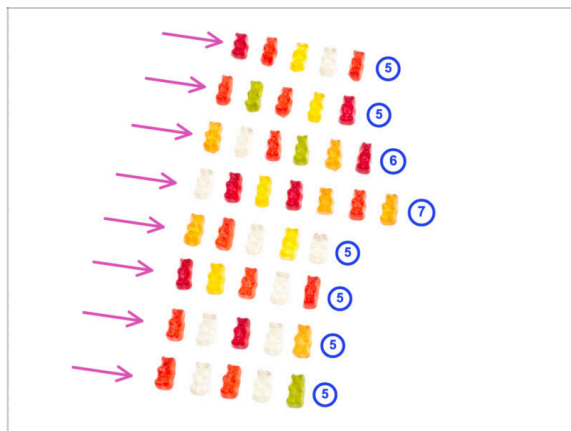
- Skoncentruj się na prawym przednim rogu i prawym boku.
- Lekko unieś jeden z rogów zespołu dolnego panelu.
- Align the threaded hole in the bottom panel with the hole in the profile.
- Join both parts together with the M3x4rT screw.
- Move to the rear corner of the right side.
- Align the holes in the base and the profile and secure it with the M3x4rT screw.

KROK 19 Mounting the bottom frame: rear + left + front



- Przejdź do tylnej części zespołu (strona z jednym silnikiem Z).
- Wyrównaj otwory w zespole podstawy z otworami w profilu, a następnie przykręć je dwiema śrubami M3x4rT.
- Focus on the left side of the assembly.
- Align holes in the base assembly and the profile and secure it with two M3x4rT screws.
- Turn the assembly with the front profile facing you (profile with cutouts).
- Align holes in the base assembly with the profile and secure them using two M3x4rT screws.

KROK 20 Haribo time



- Poczęstuj się!
- Ułóż żelki w ośmiu rzędach.
- Arrange the number of gummy bears in each row as shown in the picture.
- ① If you don't get the exact number in the last row, we recommend finding the nearest candy store and buying the missing ones.
- Eat the first row.

KROK 21 Gotowe



- **Gratulacje!** Udało Ci się właśnie złożyć **podstawę**.
- Odłożmy na razie zmontowane części na bok i przejdźmy do następnego rozdziału.

3. Montaż tylnej części

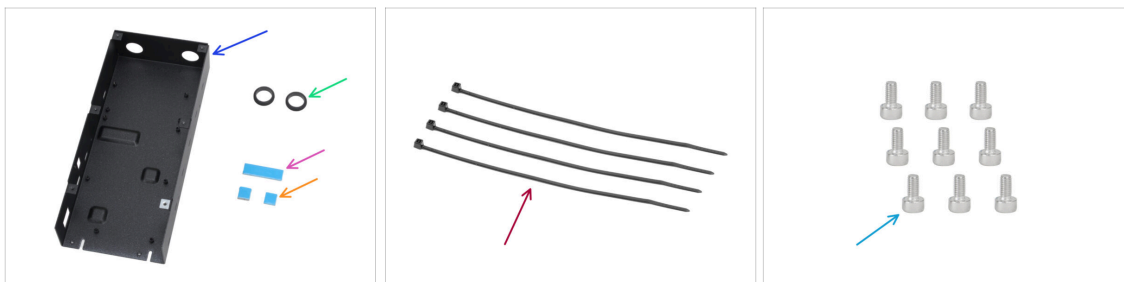


KROK 1 Tools necessary for this chapter



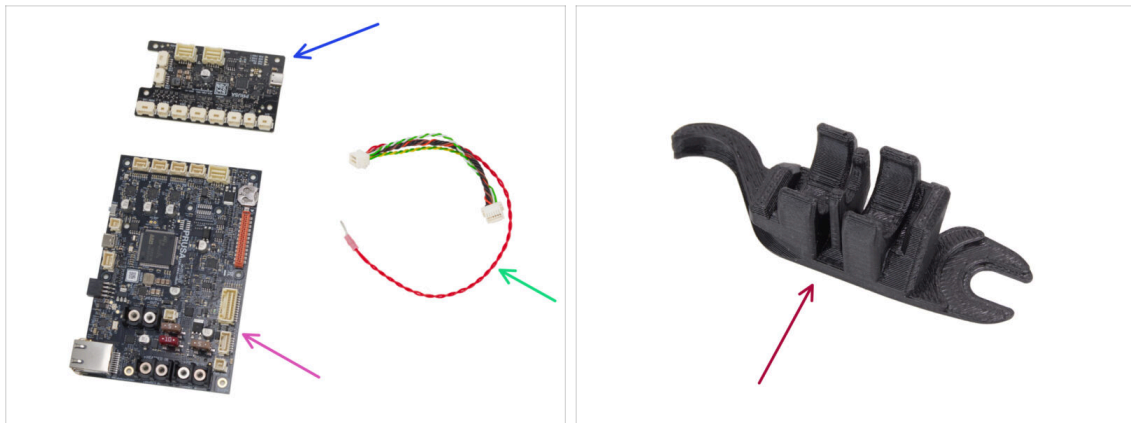
- **For this chapter, please prepare:**
- Philips (PH2) screwdriver
- Needle-nose pliers
- 2.5mm Allen key
- T10 torx key / T10 torx screwdriver

KROK 2 xBuddy: parts preparation I.



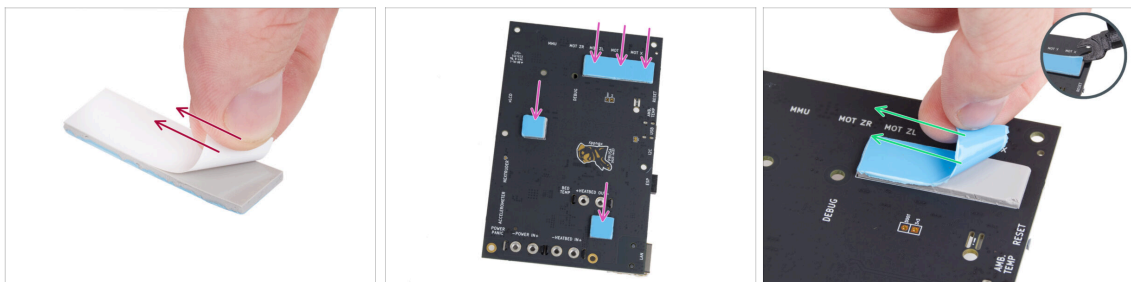
- **For the following steps, please prepare:**
- CORE One xBuddy box (1x) *found in the Metal parts 3/3 package*
- Grommet 19/16 mm (2x) *found in the Electronics & Fasteners package*
- Thermal pad 40x12x2.2 mm (1x) *found in the Electronics & Fasteners package*
- Thermal pad 12x12x2.2 mm (2x) *found in the Electronics & Fasteners package*
- Zip tie (4x)
- M3x6 screw (9x)
- **i** The list continues in the next step...

KROK 3 xBuddy: parts preparation II.



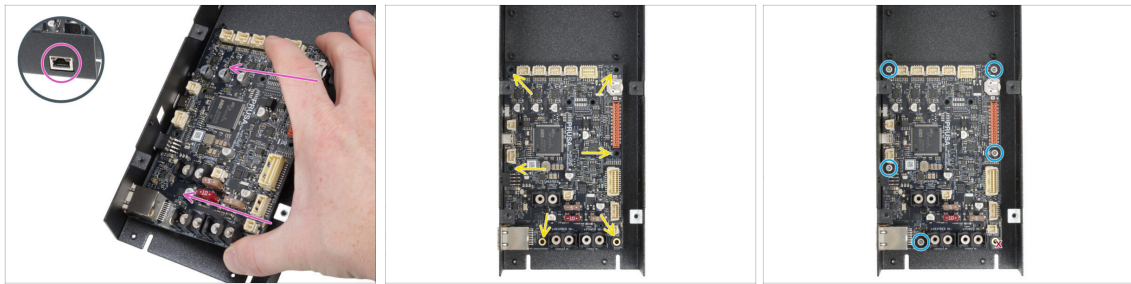
- xBuddy extension board (1x) *found in the Electronics & chamber package*
- xBuddy board (1x)
- xBuddy extension cable (1x) *found in the Electronics & Fasteners package*
- Assembly-multi-tool (1x) *found in the Printed parts package*

KROK 4 Applying the thermal pads



- Peel off the white protective layer from all thermal pads.
 - ⚠ **Always touch the sides of the electronics board while manipulating it. Avoid touching the chips, capacitors and other parts of the electronics.**
- Attach the pads onto the back of the xBuddy board. There are markings that indicate the correct size and positions.
 - ⓘ Ensure the pad attachment surface is clean and degreased.
- ⚠ **For the protection of the board's electronic components, we strongly recommend placing the xBuddy board on the soft pad. You can use the original xBuddy bubble wrap package.**
- Peel off the blue protective layer from all thermal pads.
 - ⓘ Pro tip: If the edge of the layer is difficult to lift, you can use the thin side of the Assembly-multi-tool to help separate the protective layer.

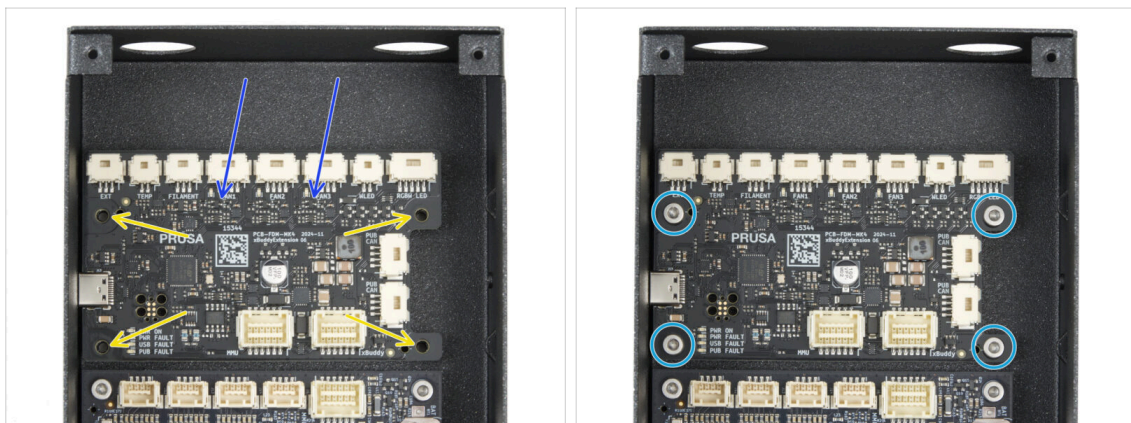
KROK 5 Installing the xBuddy



⚠ Always touch the sides of the electronics board while manipulating it. Avoid touching the chips, capacitors and other parts of the electronics.

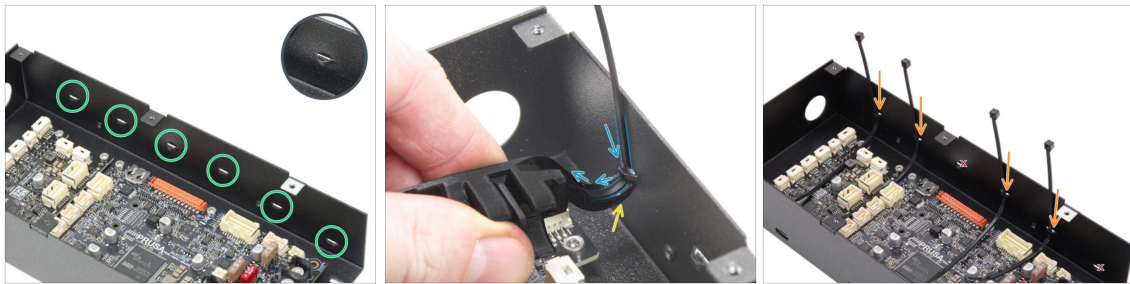
- ✿ Insert the xBuddy board to the xBuddy box.
 - Make sure the Ethernet connector is properly inserted into the hole in the xBuddy box.
- ✿ **Before fully securing**, align the board's holes with the xBuddy box's threaded standoffs.
- ✿ Fix the position of the xBuddy board by inserting five M3x6 screws. Do not fully tighten the screws. A few turns are enough for now.
- ⚠ **Put aside your instinct and leave the hole on the bottom right empty.**
- **Fully tighten all five screws. But very carefully**, otherwise you can damage the electronics board.

KROK 6 Installing the xBuddy extension



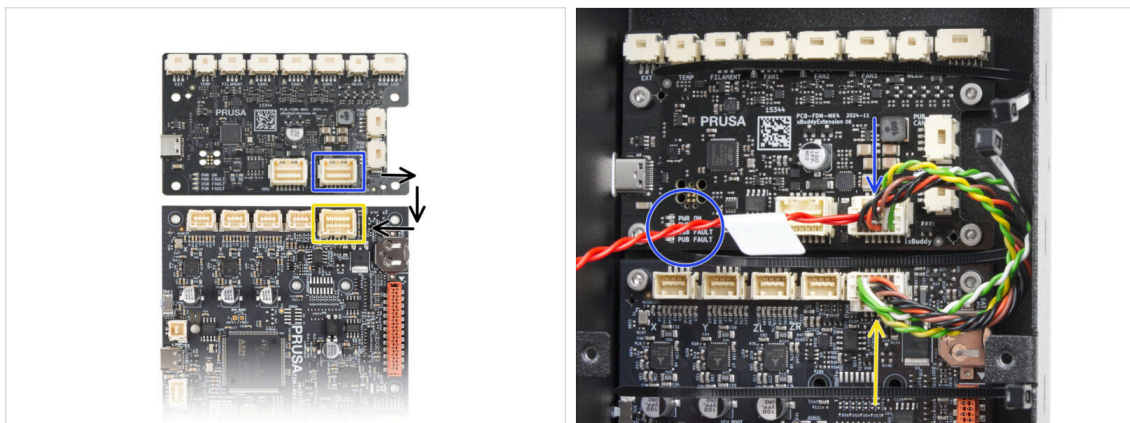
- ✿ Insert the xBuddy extension board to the xBuddy box above the xBuddy board. Notice the part orientation.
- ✿ Before fully attaching it completely, center the holes in the board with the holes (columns) in the xBuddy box.
- ✿ Fix the position of the xBuddy extension board by inserting four M3x6 screws. Tighten them completely.

KROK 7 Installing zip ties



- Take a closer look at the xBuddy box. There are six perforations on the metal case.
- ⚠ Proceed very carefully. Be careful not to damage the connectors or capacitors on the xBuddy board.**
- Attach the hook on the Assembly-multi-tool below the first perforation on the left.
- Push the zip tie through the perforation and into the Assembly-multi-tool. It will guide the zip tie into the electronics box.
- ⚠ Note the correct orientation of the zip tie. The teeth on the zip tie must be on the visible side.**
- Repeat the process at the indicated perforations.
- ⬛ Skip the third and sixth perforations.

KROK 8 Connecting the xBuddy extension board



- Plug the xBuddy extension connector with the free red cable to the xBuddy extension board.
- ⬛ Leave the red cable free for now.
- Plug the other end of the xBuddy extension cable to the xBuddy board.

KROK 9 Inserting grommets: xBuddy box



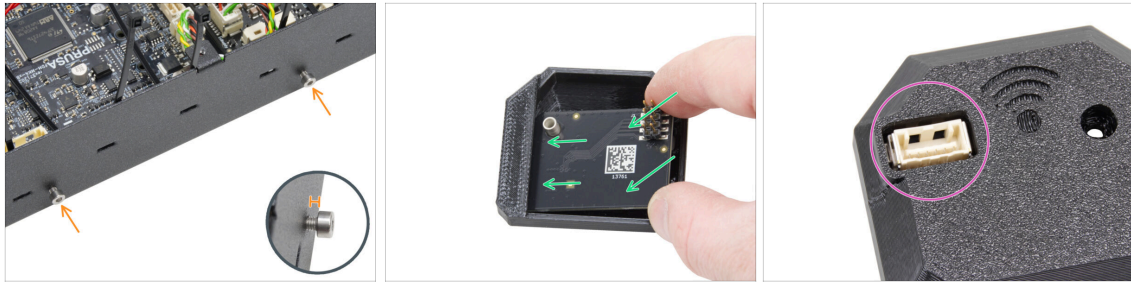
- Insert both grommets into both circle holes in the xBuddy box.
- Gently compress the grommet and fit it into the metal sheet, ensuring the groove locks into place

KROK 10 Wi-Fi: parts preparation



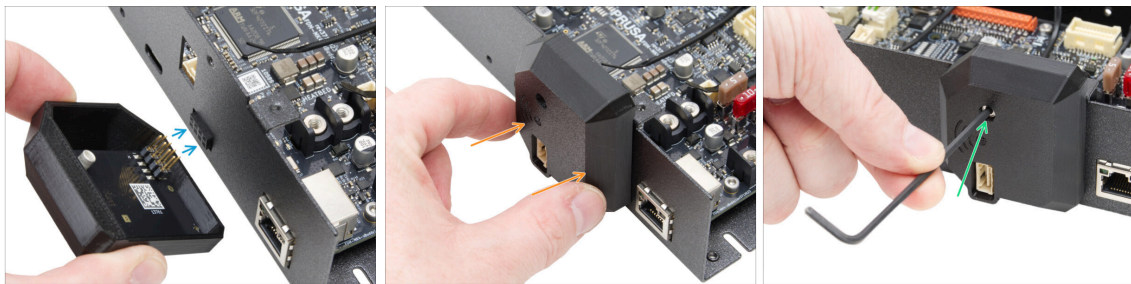
- For the following steps, please prepare:
- ESP-WiFi (1x) *reused from the MK4S*
- CORE-One-Wifi-cover (1x) *found in the Printed parts package*
- M3x12 screw (1x)
- M3x6 screw (2x)

KROK 11 Assembling the Wi-Fi



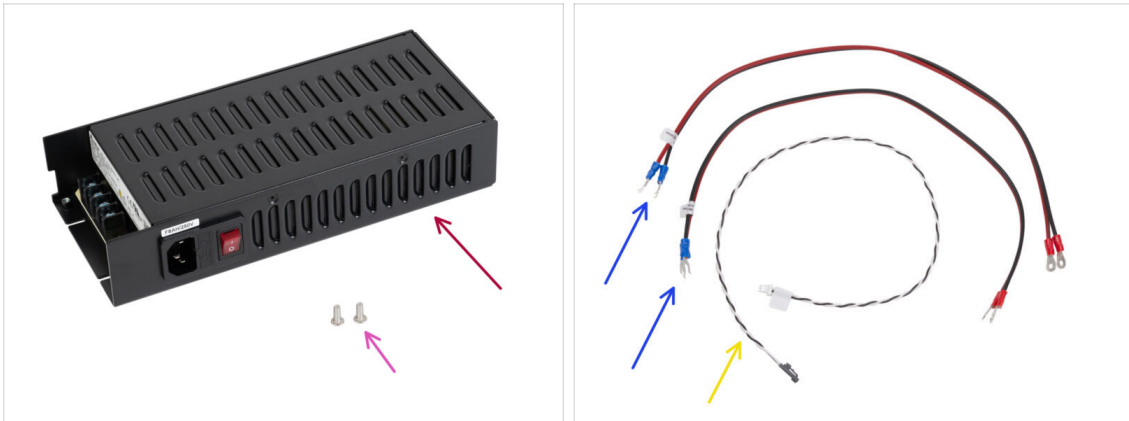
- ✚ Insert two M3x6 screw to the xBuddy box assembly from the right side. **Do not tighten them completely.** Leave at least a 4 mm (0.16 in) gap.
- ✚ Insert the ESP-WiFi module into the WiFi-cover, positioning it just below the bridge on the left side.
- ✚ On the other side, ensure the connector fits correctly into the hole in the cover.

KROK 12 Installing the Wi-Fi assembly



- ⚠ **Be very careful when handling and connecting the ESP module to avoid bending and damaging the pins.**
- ✚ Take the WiFi cover assembly and connect the ESP module pins to the connector in the xBuddy.
- ✚ Close the WiFi cover carefully, ensuring the pins of the ESP module are properly engaged in the connector on the xBuddy.
- ✚ Secure the cover with the M3x12 screw.
- ⬛ Put the assembly aside for a while.

KROK 13 PSU assembly: parts preparation



For the following steps, please prepare:

Delta PSU 240 W 24 V (1x) power supply

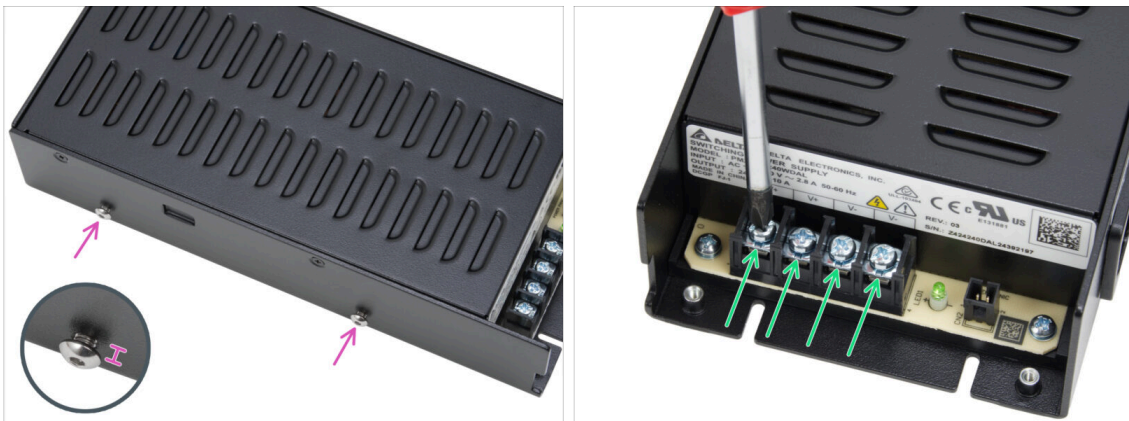
M4x6r screw (2x)

xBuddy power cables (2x)

Power panic cable (1x)

i The power panic cable may look different, depending on your MK4S printer / xBuddy board version.

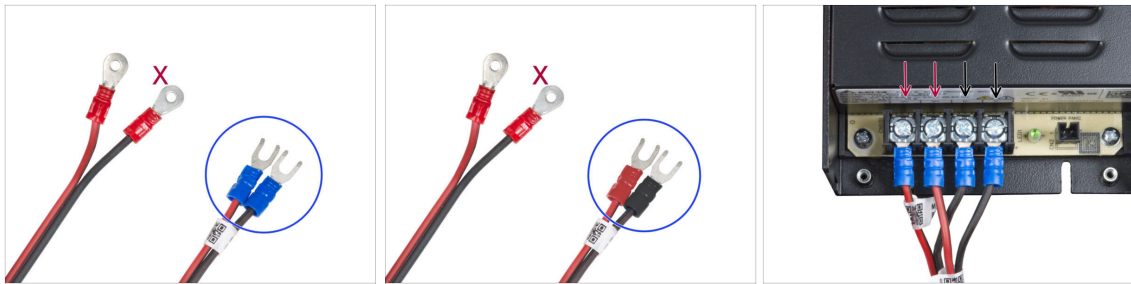
KROK 14 Preparing the PSU



Insert two M4x6r screws into the left side of the PSU. **Do not tighten them completely.** Leave at least a 4 mm (0.16 in) gap between the screw head and the PSU.

Slightly loosen all four power terminal screws on the PSU. **Do not remove them.** 3-4 turns are enough.

KROK 15 Power cables info

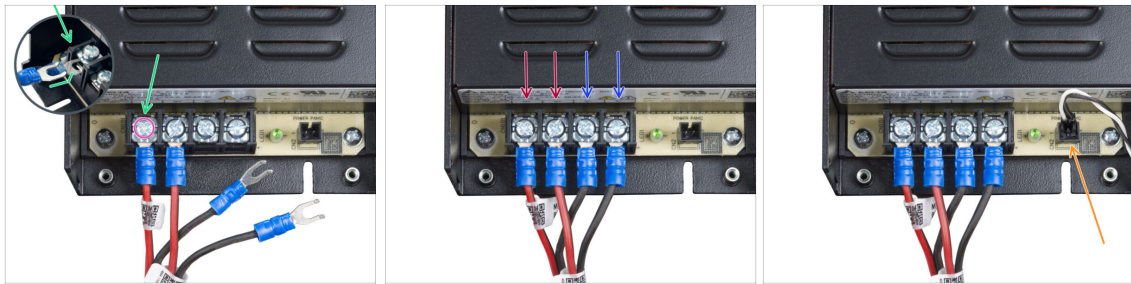


- ⓘ In the following steps, we will be connecting the power cables one by one. The terminal screws are installed on the PSU already. Loosen them but **don't remove them completely** so they don't get mixed up with the other type of screws used on the xBuddy board side of the cable. Each of the two power cables has two leads. One has a prevailing **red color = positive / +**
One has a prevailing **black color = negative / -**
- 🔵 Note that the power cables have different connectors on each end. For now, prepare the U-shaped connectors (crimping tube color may vary).
- ⬛ **Note that the polarity of the terminals on the PSU is:**
- 🔴 Positive (V+)
 - 🔴 Dodatni (V+)
 - ⬛ Negative (V-)
 - ⬛ Negativ (V-)
- ⓘ The red cable (positive) may have a black stripe on it. Similarly, the black cable (negative) can have a red stripe on it.



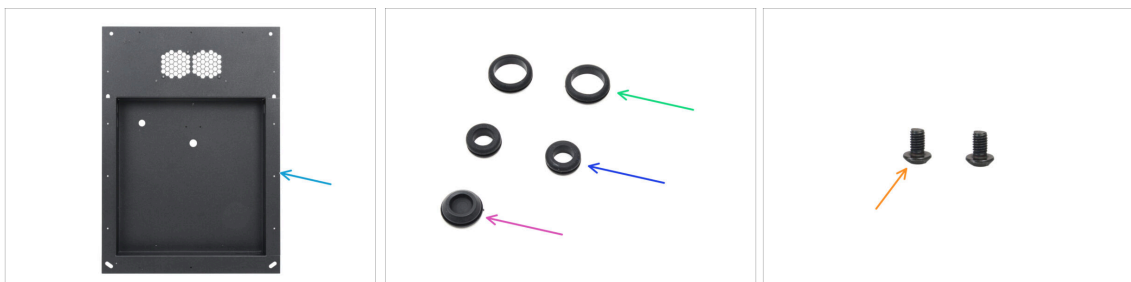
Do not connect any cables yet, wait until you have been prompted.

KROK 16 Connecting the PSU



- Take the RED wire and slide the fork connector all the way into the first (positive) terminal from the left on the bottom of the PSU. Make sure the steel washer is above the "fork" connector.
- Tighten the terminal screw firmly.
- Use the same procedure to connect the second red wire to the second terminal slot from the left.
- Connect two black wires to the third and fourth terminal slots using the same procedure.
- Plug the black connector of the power panic cable to the right most connector.
- Put the assembly aside for a while.

KROK 17 Back panel: parts preparation



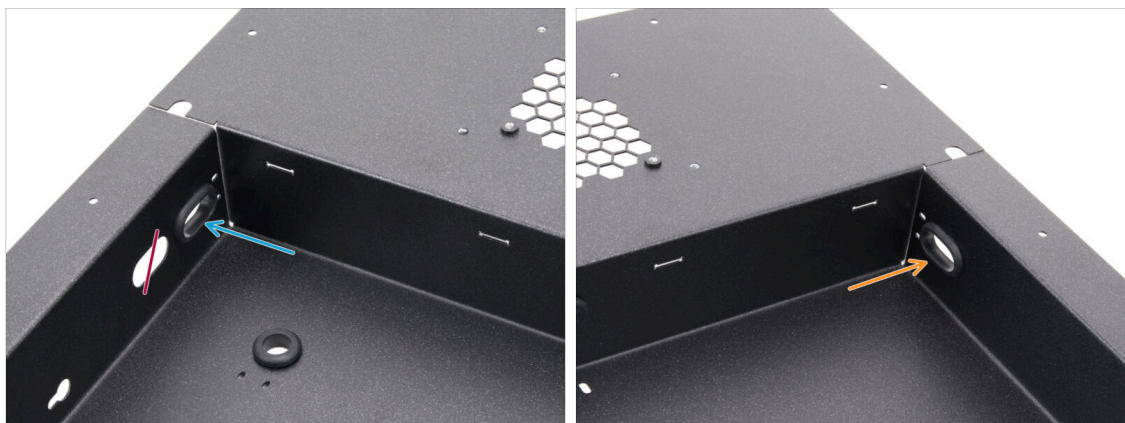
- For the following steps, please prepare:**
- Back panel (1x) found in the Metal parts 1/3 package
- Grommet 19/16 mm (2x) large one - found in the Electronics & Fasteners package
- Grommet 13.5/10 mm (2x) small one - found in the Electronics & Fasteners package
- Sealing plug 15.5 mm (1x) found in the Electronics & Fasteners package
- M3x4T screw (2x)

KROK 18 Installing grommets: back panel top



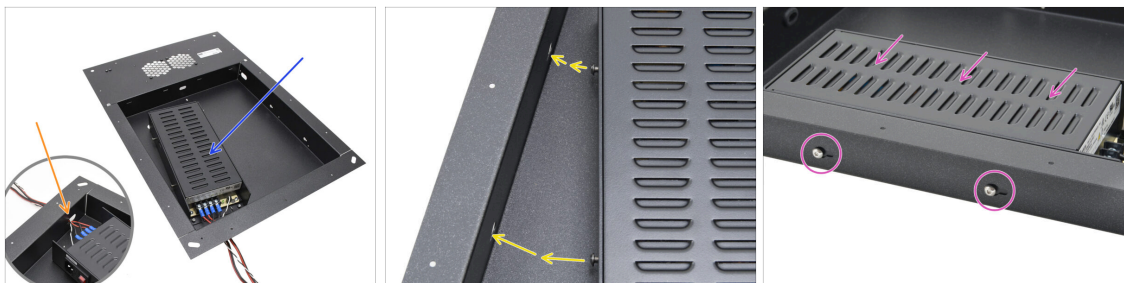
- Position the back panel as shown in the first image. Use the two oval holes as a reference.
- Insert the sealing plug into the center hole.
 - The sealing plug is not symmetrical.** Insert the side with the smaller diameter facing downward.
- Insert one small grommet to the left circle hole.
- Insert one small grommet into the oval hole.

KROK 19 Installing grommets: sides



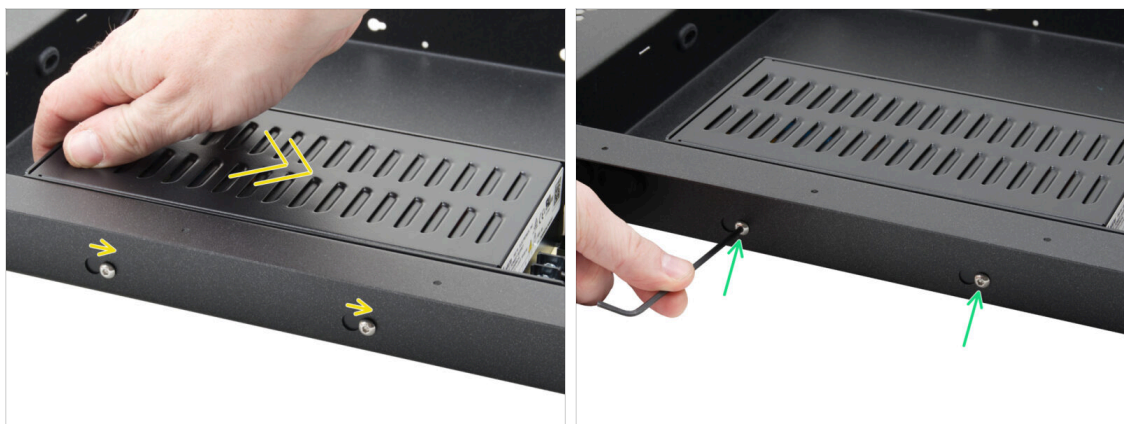
- Focus on the left top side of the back panel and locate two oval holes.
- Insert one large grommet into the oval hole closest to the corner.
- Move to the right top side of the back panel and insert one large grommet to the oval hole.

KROK 20 Aligning the PSU



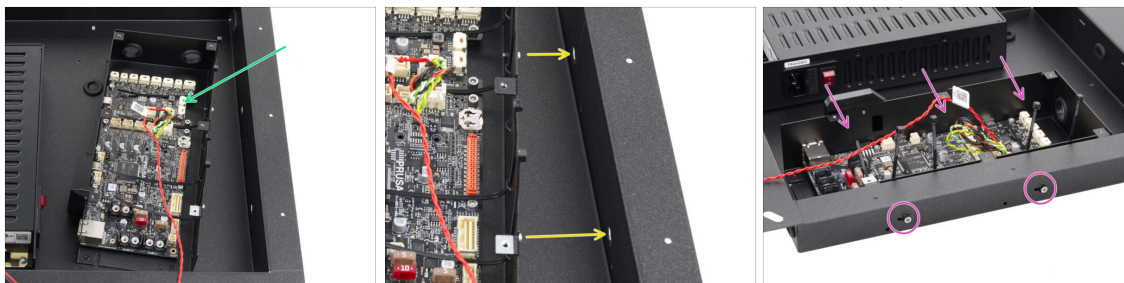
- Carefully insert the PSU into the rear panel pocket.
- Push the cable bundle through the opening on the bottom of the panel.
- Align the screws on the PSU to the holes on the left side of the back panel.
- Slide the PSU so that the screws go through the holes.

KROK 21 Mounting the PSU



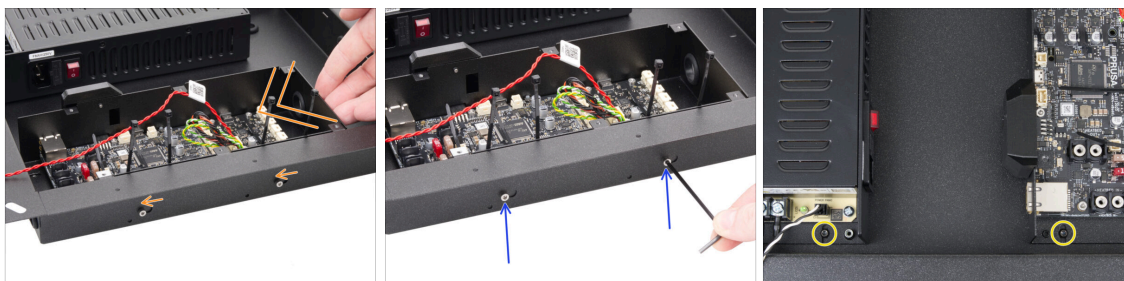
- Gently slide the PSU so that the position of the screws moves to the end position of the keyhole-shaped holes.
- Maintain the PSU position and fully tighten both screws.

KROK 22 Aligning the xBuddy box assembly



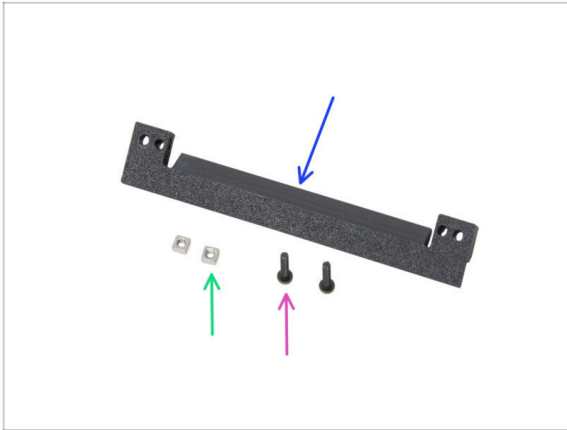
- Carefully insert the xBuddy box assembly into the rear panel pocket.
- Align the screws on the xBuddy box to the holes on the right side of the back panel.
- Slide the xBuddy box so that the screws go through the holes.

KROK 23 Mounting the xBuddy box



- Gently slide the xBuddy box assembly so that the position of the screws moves to the end position of the keyhole-shaped holes.
- Maintain the xBuddy box position and fully tighten both screws.
- Fix the PSU and xBuddy box assembly to the back panel by tightening the two M3x4rT screws.

KROK 24 PSU-cable-cover: parts preparation



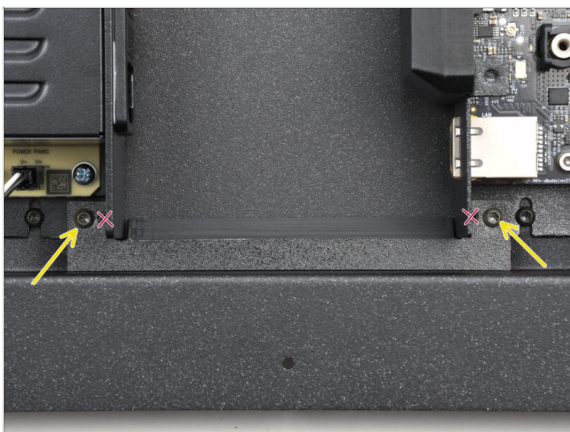
- **For the following steps, please prepare:**
- PSU-cable-cover (1x) *found in the Printed parts package*
- M3nS nut (2x)
- M3x10rT screw (2x)

KROK 25 Preparing the PSU-cable-cover



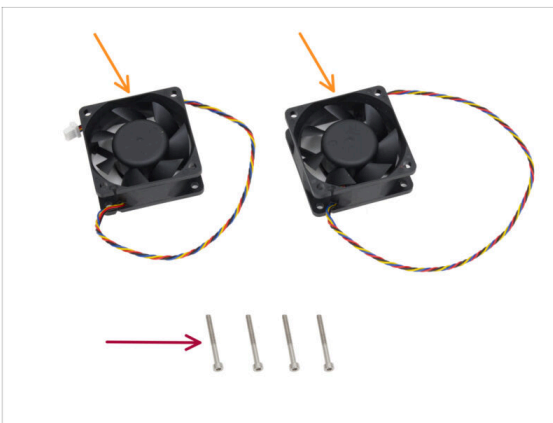
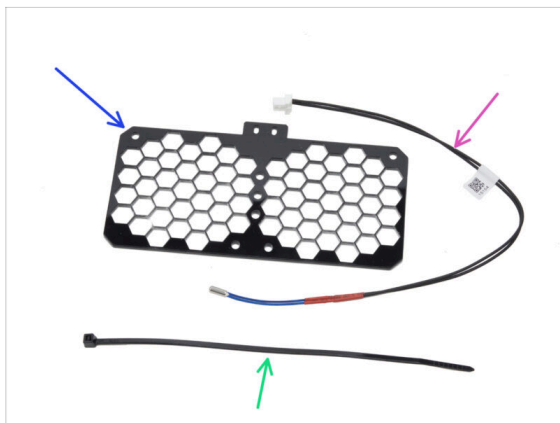
- Insert one M3nS nut into the hole on each end of the PSU-cable-cover.
- Ensure the holes are aligned.

KROK 26 Pokrywka przewodów zasilacza: montaż



- Attach the PSU-cable-cover inbetween the PSU and the xBuddy box.
- Secure the cover with two M3x10rT screws in the outermost holes of the part.

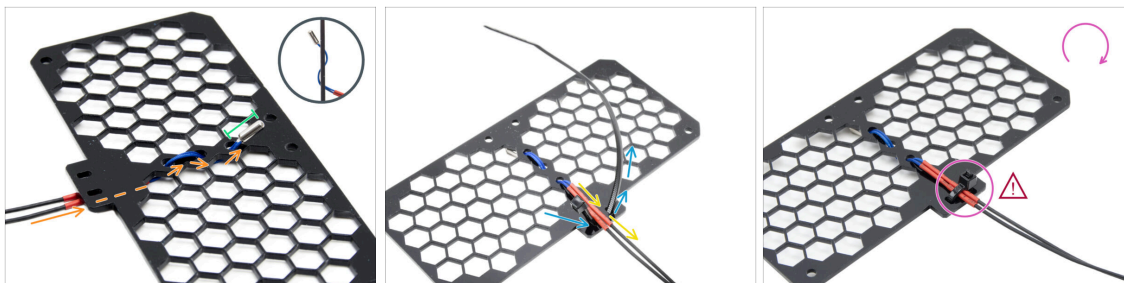
KROK 27 Chamber fans: parts preparation



For the following steps, please prepare:

- Fan grid (1x) found in the Electronics & Chamber parts package
- Chamber thermistor 260 mm (1x) found in the Electronics & Chamber parts package
- Zip tie (1x)
- Cooling fan (2x) found in the Electronics & Chamber parts package
- M3x30 screw (4x)

KROK 28 Assembling the fan grid

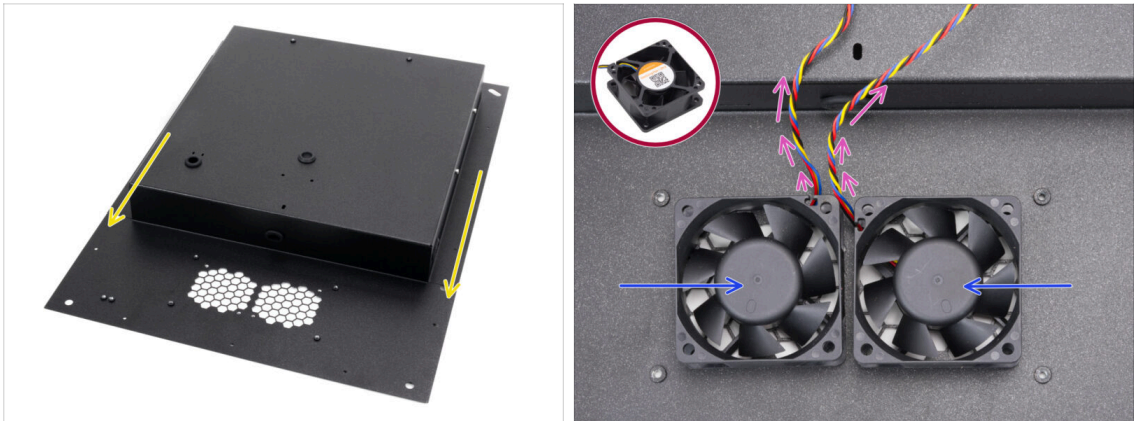


- Guide the thermistor cable under the grid. Thread it in the direction shown in the picture.

i The grid has both sides the same.

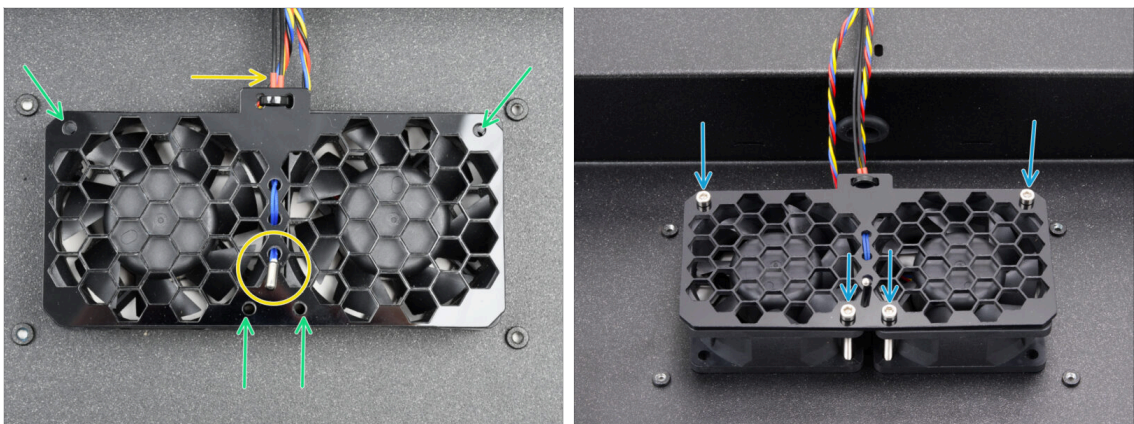
- Leave the whole thermistor part sticking out.
- Turn the grid over and push the zip tie through the pair of holes on the grid's protrusion.
- Route the thermistor cable in between the zip tie parts.
- Carefully secure the thermistor cable by tightening the zip tie. **Do not overtighten it, it may damage the cable.**
- ⚠ **Make sure that the header of the zip tie is facing the same way as in the picture. It must be on the same side as where the cable starts.**
- Put the assembly aside for a while.

KROK 29 Attaching the fans



- ✦ Place and orient the back panel according to the picture. The grid cutouts must be facing you.
- ✦ Attach both fans to the grid in the back panel.
 - ⚠ **The side of the fan without the sticker must be facing up.**
 - ✦ Orient the fans so that the cables run from the corners in the centre.
 - ✦ Let the cables hang freely for now, ensuring they are not pinched during handling.

KROK 30 Covering the cooling fans



- ✦ Place the fan grid assembly on the cooling fans.
 - ⚠ **Make sure that the thermistor is pointing up and its cable runs under the grid.**
- ✦ Align holes in the fans, fan grid and the back panel.
- ✦ Secure the fan assembly to the back panel with four M3x30 screws.
 - ⚠ **Do not overtighten the screws to avoid damaging the grid.**

KROK 31 Rear profiles: parts preparation



● For the following steps, please prepare:

- Rear profile (2x) found in the Metal parts 1/3 package

① Take two of the longer ones.

Note that the other two longer ones differ by having cutouts.

- Nylon rivet (11x)
- M3x4rT screw (4x)
- 2.9x6.5sT self-tapping screw (1x)

KROK 32 Installing the rear profiles



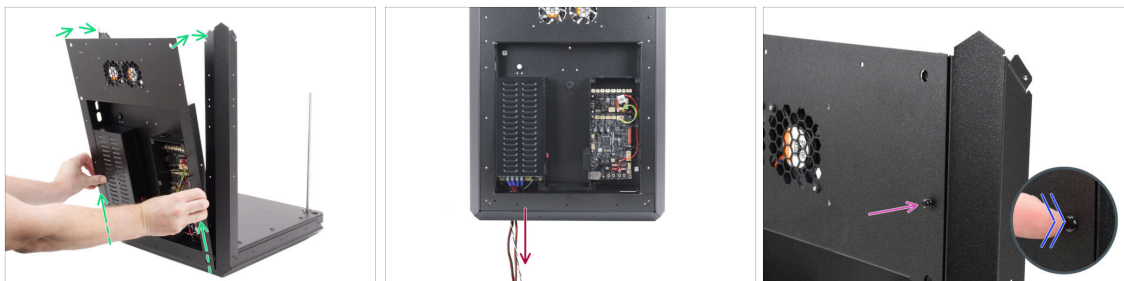
- Take the bottom assembly and turn it so the rear side (with one motor in the center) faces you.



Focus on the right rear corner—the side with the longest oval opening in the bottom panel.

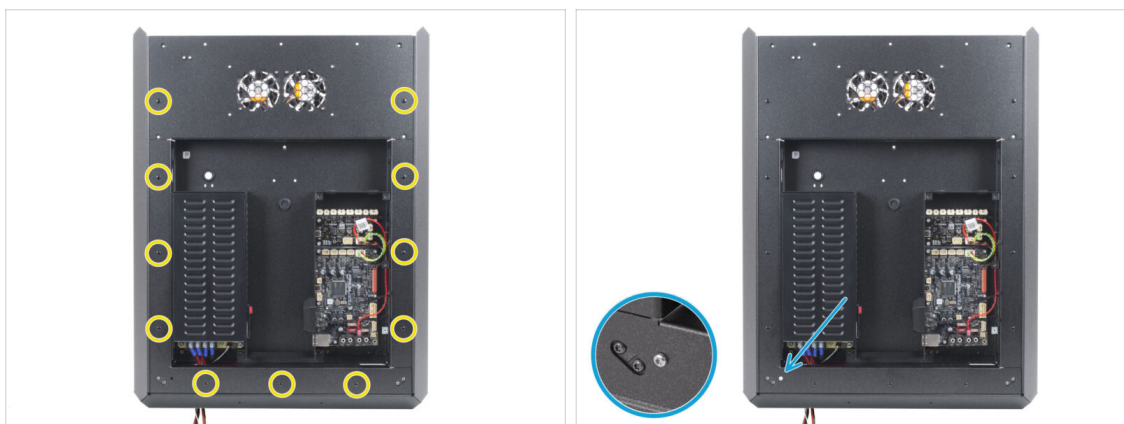
- Attach the rear profile to the right corner, using the **end without flanges**.
- Align the hole on the rear side and secure it with the M3x4rT screw.
- Secure the corner on the other side with a second M3x4rT screw - each corner will be secured with two M3x4rT screws.
- Proceed the same with the second rear profile on the rear left corner.

KROK 33 Mounting the back panel



- 🟢 Slightly lift the back assembly and gently place it on the base assembly and rear profiles.
- 🔴 Pull the power cables through the opening in the bottom assembly.
- 🟡 Insert one nylon rivet through the rear panel and rear profile on the top right side.
- 🟢 Push the rivet head with your finger until it is fully seated.

KROK 34 Securing the Back panel



- 🟡 Install all eleven nylon rivets around the back panel assembly to secure it.
- 🔵 Install the 2.9x6.5 self-tapping screw into the bottom left opening on the back panel.



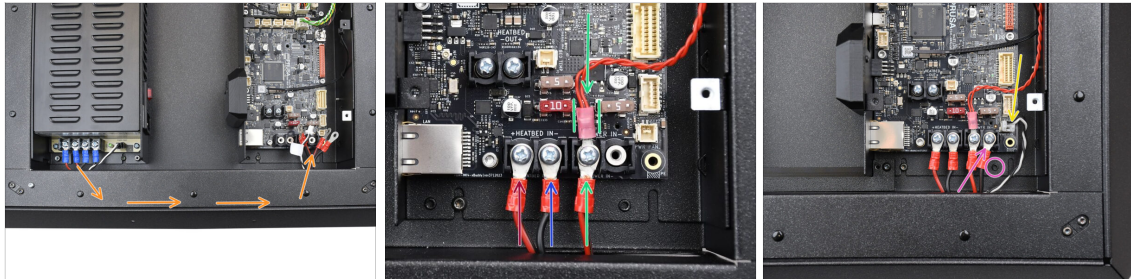
Don't overtighten to avoid stripping the self-tapping thread.

KROK 35 Power Terminal Screws Preparation



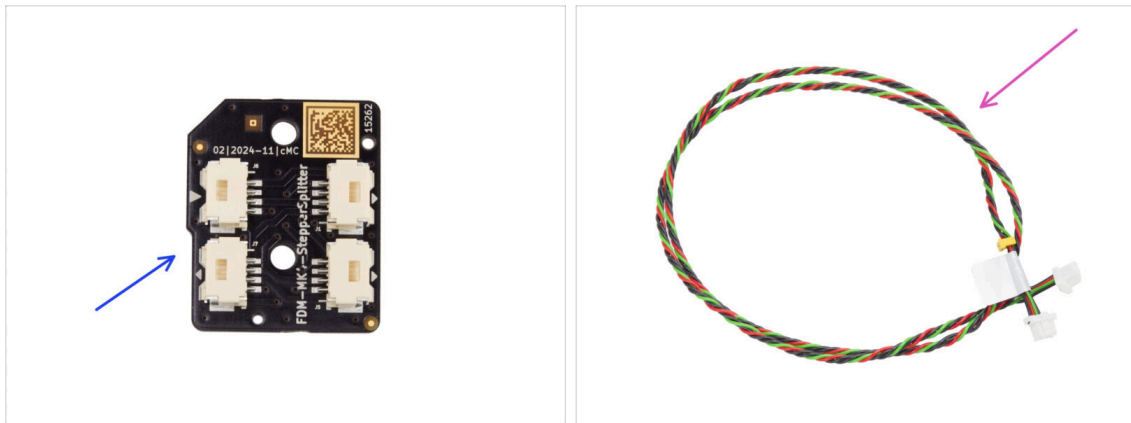
- For the following steps, prepare:
- 6-32 Power Terminal Screw (4x)

KROK 36 Connecting the power cables



- Guide the power cable bundle through the rear panel, towards the xBuddy board.
- Take one red cable from the PSU and connect it to the leftmost terminal on the xBuddy board using the 6-32 terminal screw. Tighten it firmly but do not overtighten.
- Attach the black PSU cable to the second terminal. Tighten it firmly, but avoid overtightening.
- Take the second red cable from the PSU and stack it with the red cable from the extension board. Secure **both cables together** in the third terminal using the terminal screw.
-  Carefully guide the xBuddy extension cable between the fuses, ensuring it does not press against any of them.
- Attach the last black PSU cable to the xBuddy, **making sure it does not obstruct the threaded hole underneath**.
- Connect the power panic cable to the bottom right connector on the xBuddy board.

KROK 37 Stepper splitter: parts preparation



● For the following steps, please prepare:

- Stepper splitter (1x) found in the *Electronics & Chamber parts package*
- Stepper splitter cable (1x) found in the *Electronics & Fasteners package*

KROK 38 Guiding the Stepper splitter cable



● Very carefully turn the assembly on its back (back panel).

● **It is recommended to support the rear of the assembly** with a soft, raised pad to prevent it from resting on the protruding Wi-Fi module.

① Tip: Use the foam padding from the sheet metal parts package or an empty cardboard box.

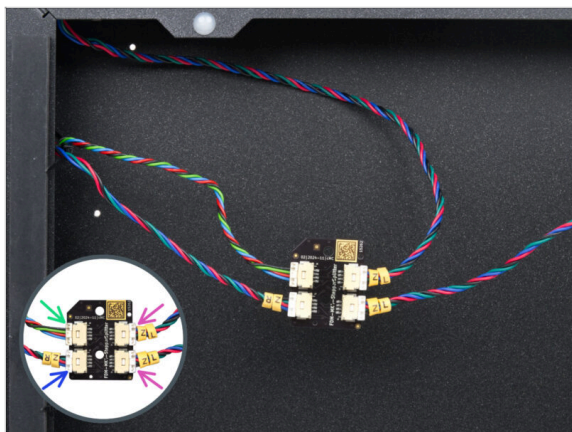
● Guide the Stepper splitter cable through the three zip ties on the left side.

● For now, leave the side with the label hanging freely outside.

● Guide the Z-axis motor R cable through the three zip ties on the left side.

⚠ **Do not tighten the zip ties at this moment.**

KROK 39 Connecting the Stepper splitter



● Connect the Z motor cables to the stepper splitter:

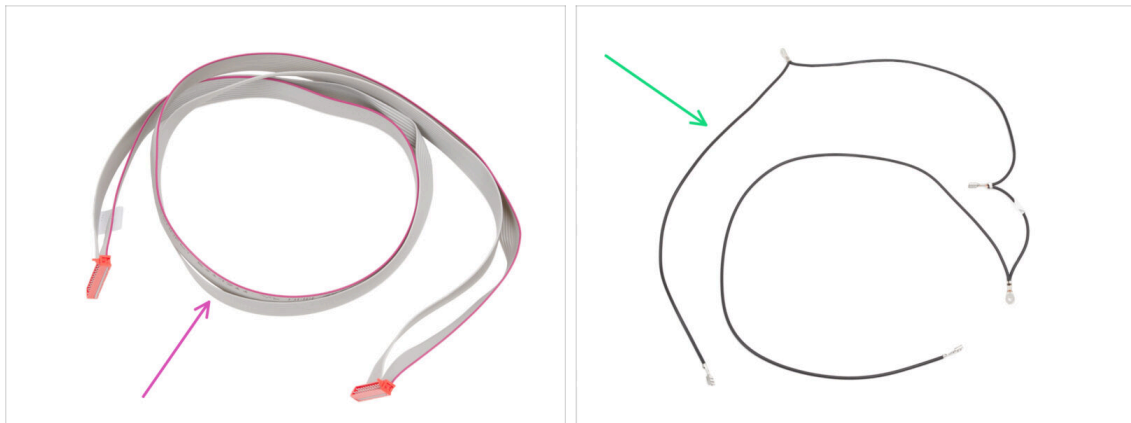
- Stepper splitter cable
- Z-axis motor R
- Z-axis motor L
- Z-axis motor L

KROK 40 Mounting the Stepper Splitter



- Locate two spacer pins in the bottom frame.
- From the inside of the frame, prepare the Stepper splitter and attach its holes opposite the pins.
 - Check the correct orientation of the part by the logo on the board. **The logo is upside down.**
- Push the aligned Stepper Splitter onto the pins until you feel a click - this secures the Stepper Splitter. Push in the center of the board.
- ⓘ It is necessary to apply a significant pressure to seat the part in. Yet, be very careful not to damage the components.

KROK 41 LCD cable: parts preparation



● For the following steps, please prepare:

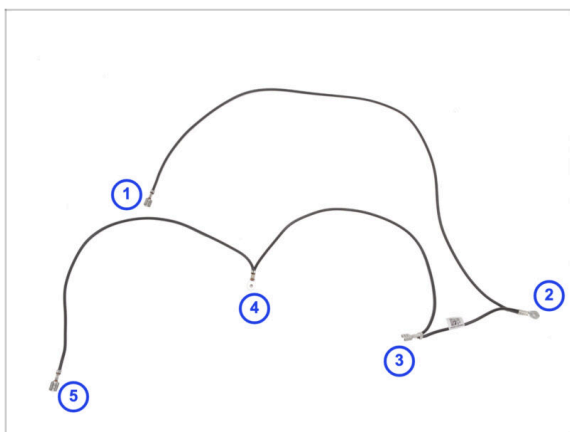
- xLCD cable (1x) found in the *Electronics & Fasteners* package
- Main FE cable (1x) found in the *Electronics & Fasteners* package

KROK 42 Guiding the LCD cable



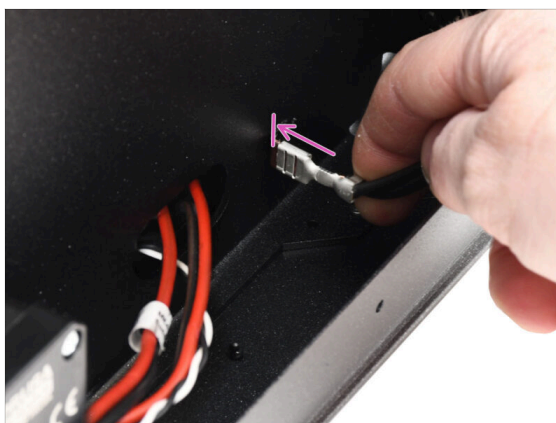
- Guide the Stepper splitter cable through the oval hole to the electronics.
- Take the end of the xLCD cable with the QR code label.
- Push a few centimeters of the xLCD cable (the end with the QR code label) through the oval hole in the bottom panel.
 - ⓘ The cable must be slightly folded to pass through the hole.
- Guide the xLCD cable through the zip ties on the left side of the frame.
- Guide the xLCD cable through the rectangular opening in the front profile. Keep protruding approximately 6 cm (2.36 in).
- Leave the cable hang freely for now.

KROK 43 Main FE cable INFO



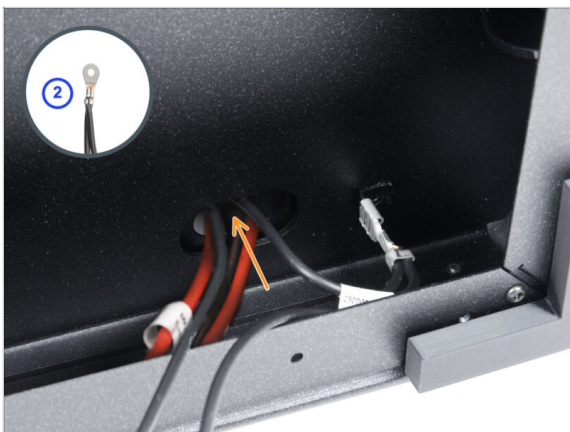
- Lay out the Main FE cable as shown in the picture, ensuring each connector is positioned accordingly.
- The connectors are numbered in the picture for reference only. This numbering will be used in the following steps to help with proper connections.
- ⓘ Note: We will always indicate which connector to use in the following steps. However, it's a good idea to remember this overview for easier assembly.

KROK 44 Connecting the FE cable (no 3.)



- Prepare the connector number 3.
- ⓘ That's the female faston connector in the middle of the cable.
- Locate the male Faston connector in the bottom right corner.
- Slide the FE cable connector completely onto the Faston connector.

KROK 45 Guiding the FE cable (no. 2)



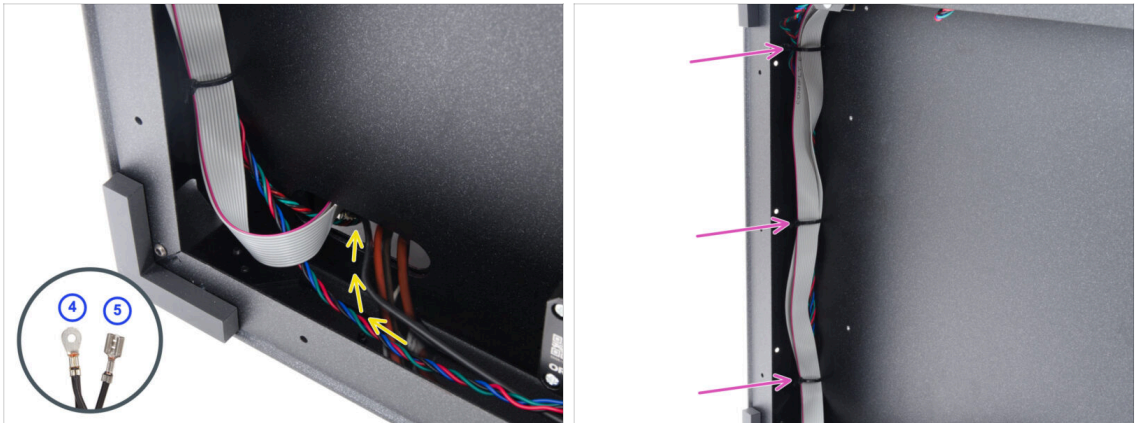
- Take the FE cable connector number 2.
- ⓘ The round connector nearby.
- Insert the connector loosely into the hole in the bottom panel.

KROK 46 Guiding the FE cable (no. 1)



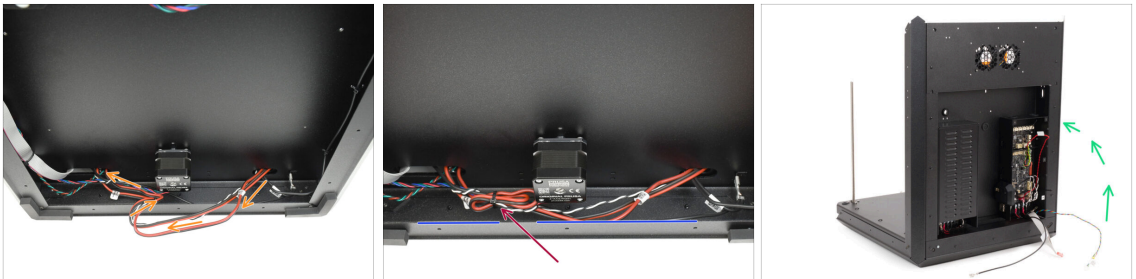
- Take the connector number 1 and guide it through the zip ties on the right side of the frame.
- ⓘ That is the long part with just one faston connector at the end.
- Push the connector through the rectangular opening in the front profile. Keep protruding approximately 6 cm (2.36 in).
- Leave the cable hang freely for now.
- Tighten all three zip ties. Cut off the excess.

KROK 47 Guiding the FE cable (no. 4 and 5)



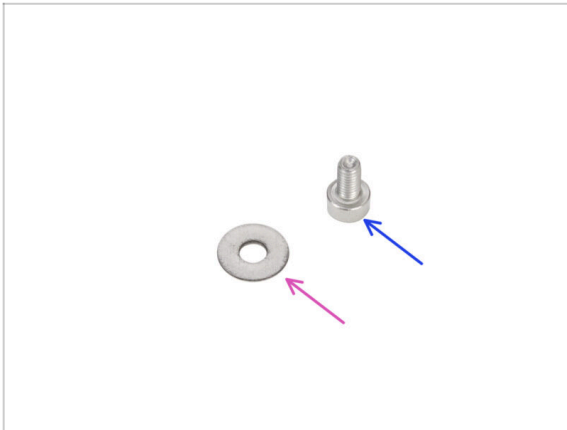
- Take the FE cable connectors number 4 and 5.
- Push both connectors through the leftmost hole in the bottom. Leave them free for now.
- Tighten all three zip ties on the left side of the frame. Cut off the excess.
 - There's no need to fully tighten the zip ties. However, the cables must still be easy to move for any necessary length adjustment during connection.

KROK 48 Cable Bundle Cleanup



- On the bottom, loop the power cable bundle around the Z-motor cable to shorten it.
- Secure the loop to the Z-motor cable with a zip-tie.
 - Make sure the cables are kept at a reasonable distance from the metal profile, while also preventing them from being overly tight.
- ⚠ This prevents cables from hanging below the metal profiles, where they could get caught and damaged. High current flows through these cables, so damaging them might cause a serious harm to the printer and its surroundings!
- Carefully lift the printer upright.

KROK 49 FE cable - xBuddy: parts preparation



● For the following steps, please prepare:

● M3w washer (1x)

● M3x6 screw (1x)

KROK 50 Connecting the FE cable: xBuddy



● Put the printer back on its feet. And focus on the rear side.

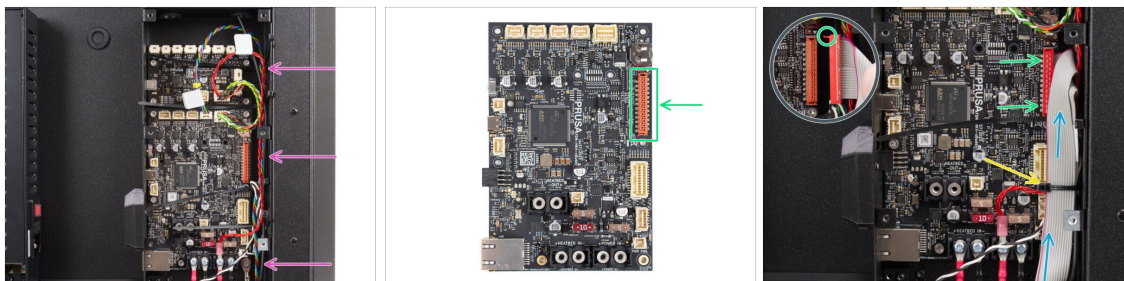
● Take the connector number 4 and connect it to the xBuddy using the M3x6 screw and M3w washer.

⚠ The M3 washer must be between the screw head and the connector.

● Guide the FE cable (number 5) alongside the xBuddy box and pass it through the right-side holes out of the box.

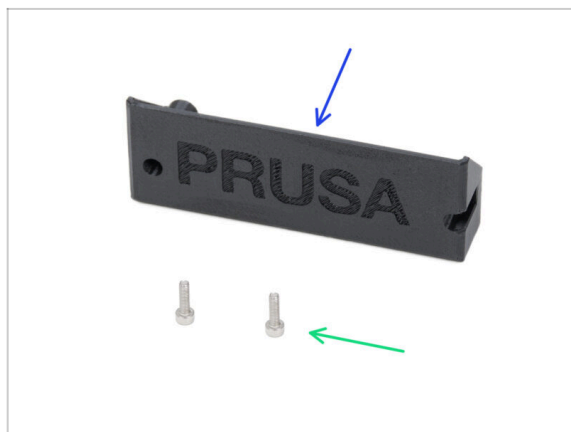
● Guide the Stepper splitter cable alongside the xBuddy box and connect it to the second slot from the right in the top row on the xBuddy board (labeled ZR).

KROK 51 Plugging the xLCD cable



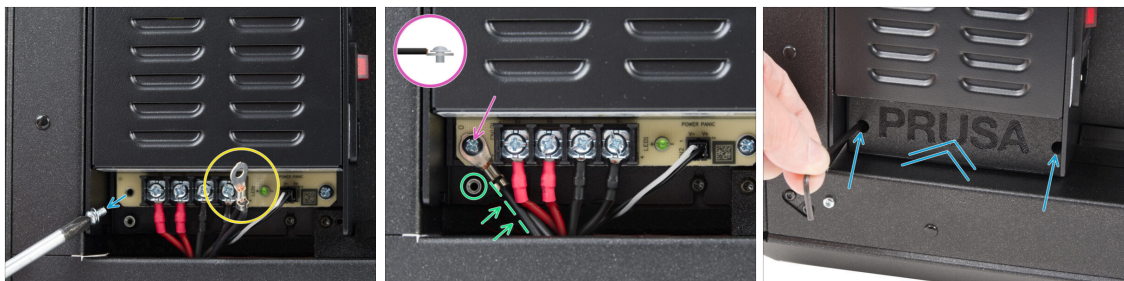
- ◆ Arrange the cables as shown - route all cables along the right side of the xBuddy box.
- ⚠ Make sure all the cables guide through the zip ties in the xBuddy box, not under them.
- ◆ Place the xLCD cable over the other cables and route it upwards.
- ◆ Connect the xLCD to the slot on the right side of the xBuddy. **Note the safety latch on the xLCD cable connector. The latch must fit into the upper side of the connector.**
- ◆ Secure the cable arrangement by tightening the bottom zip tie.
- ⚠ Do not overtighten the zip tie, as it may damage the wires.
- ◆ Carefully cut off the excess length of the zip tie. **Avoid cutting cables!**

KROK 52 PSU-cover: parts preparation



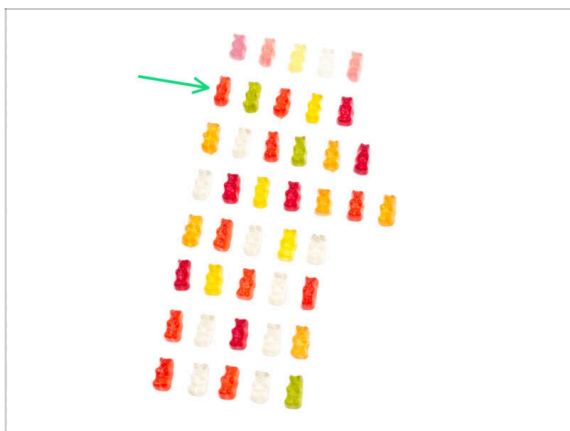
- ◆ For the following steps, please prepare:
- ◆ CORE-One-PSU-cover (1x) found in the Printed parts package
- ◆ M3x10 screw (2x)

KROK 53 Podłączenie zasilacza: przewód PE



- ◆ Remove the screw from the PSU board. **Do not discard it!**
- ◆ Ensure the FE connector (number 2) is routed into the PSU compartment.
- ◆ Insert the removed screw through the FE cable connector and screw it back to the PSU board.
- ◆ Note the correct orientation of the connector.
- ◆ Rotate the connector counter-clockwise, positioning it so it doesn't block the threaded hole underneath.
- ◆ Attach the PSU-cover over the PSU connectors and secure with two M3x10 screws.

KROK 54 Haribo time



- ◆ Time to recharge for the next chapter!
- ◆ Eat the second row.
- ⚠ **No cheating**—eat only the number shown!

KROK 55 Gotowe

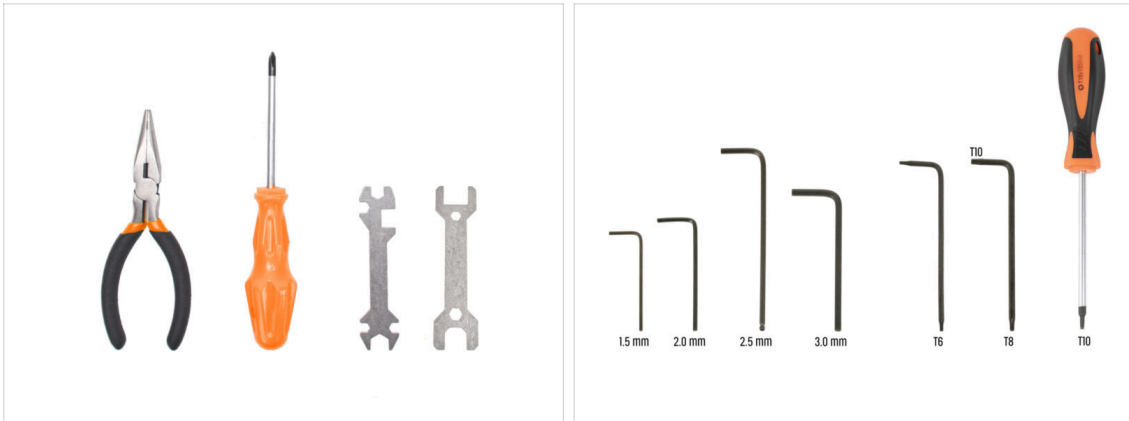


- Congratulations! The back assembly is installed.
- Now continue to the next chapter.

4. Montaż stołu grzewczego



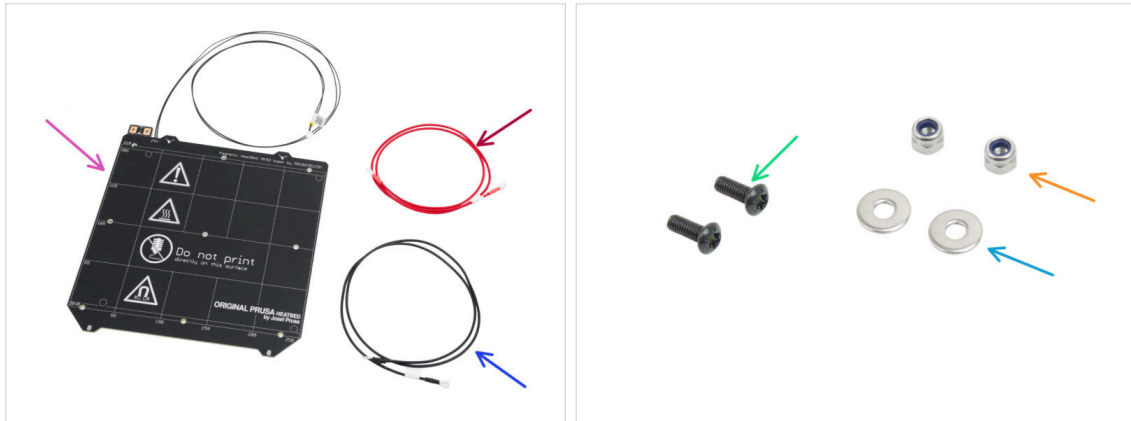
KROK 1 Tools necessary for this chapter



● **For this chapter, please prepare:**

- Needle-nose pliers
- Klucz uniwersalny
- Wrench 13-16
- Philips (PH2) screwdriver
- 2.5mm Allen key
- 2.0mm Allen key
- T10 torx key / T10 torx screwdriver

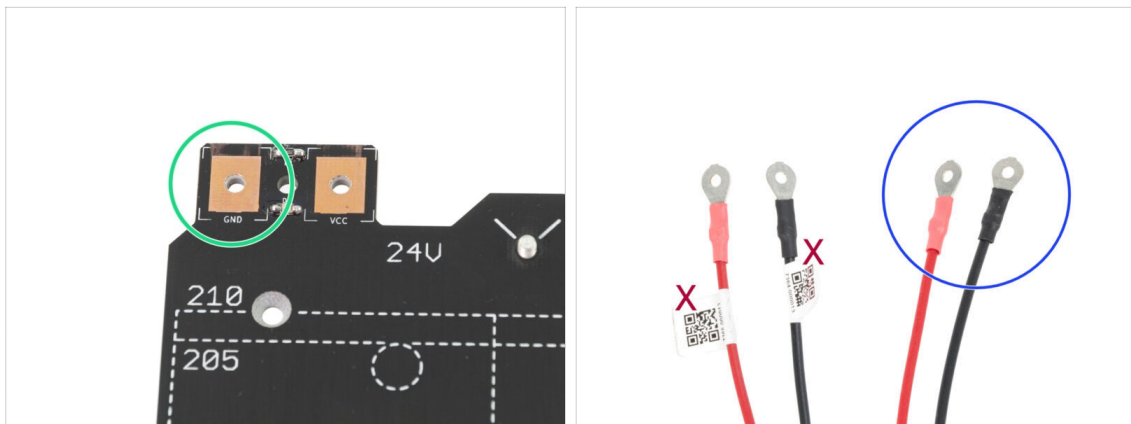
KROK 2 Heatbed: parts preparation



For the following step please prepare:

- Heatbed MK52 24V (1x)
- Heatbed cable red (1x) *found in the Electronics & Fasteners package*
- Heatbed cable black (1x) *found in the Electronics & Fasteners package*
- M3x10rT screw (2x)
- M3nN nut (2x)
- M3w washer (2x)

KROK 3 Heatbed Cable Assembly 1

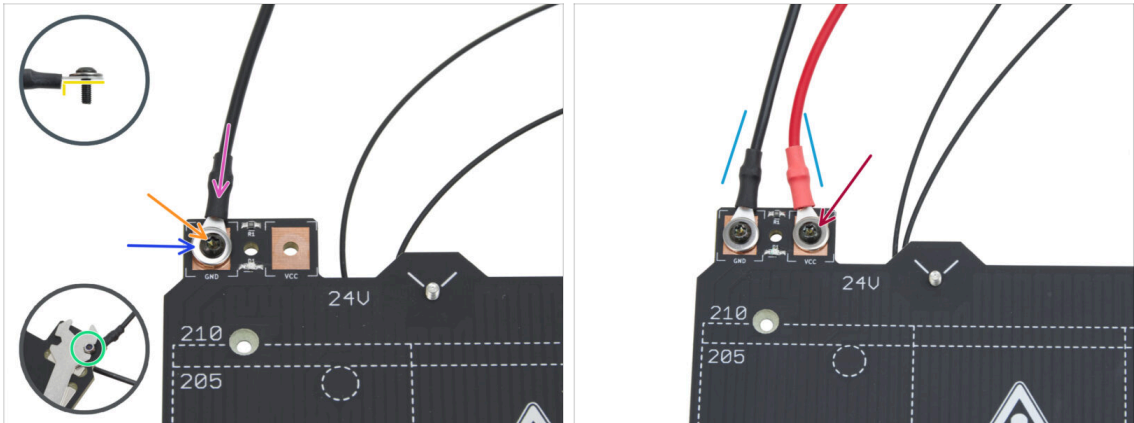


Follow the polarity markings on the heatbed:

The pad labeled **GND** should be coupled with the **BLACK WIRE**.

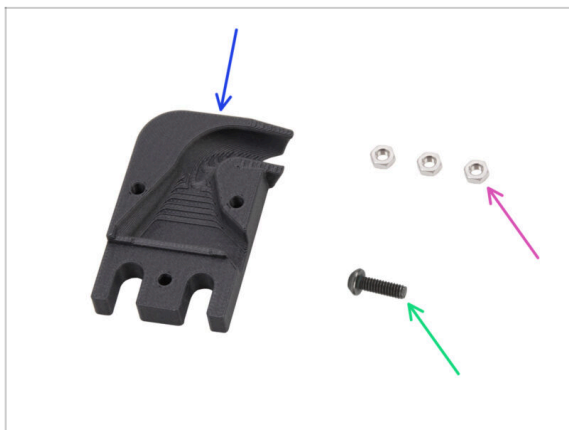
- Take both power cables. Note the labels on each. Use the unlabeled ends for the heatbed connection.

KROK 4 Heatbed Cable Assembly 2



- ◆ Place the black cable onto the "GND" pad.
- ◆ Orient the lug connector with the thicker part facing downward.
- ◆ Place the M3w washer on top of the connector.
- ◆ Insert the M3x10rT screw through all the components.
- ◆ Attach the M3nN nut onto the M3x10rT screw from below and tighten it slightly.
- ◆ Using the same technique, attach the red cable to the "VCC" pad.
- ◆ Guide the heatbed cables slightly inward in a "V" shape, **then fully tighten the nuts from below.**

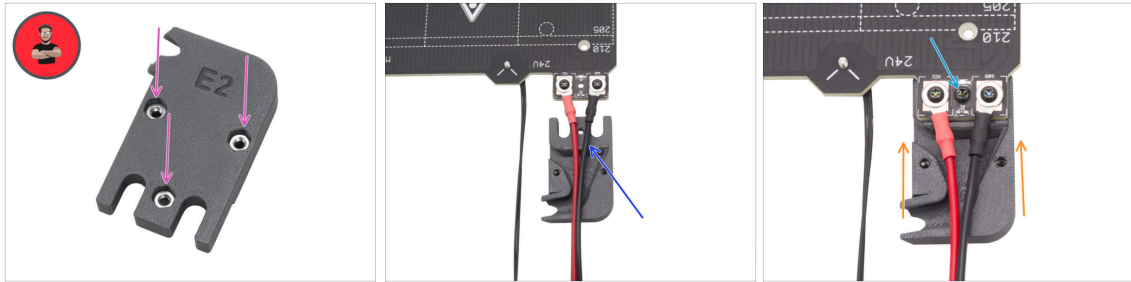
KROK 5 Bed-cable-cover-bottom: parts preparation



◆ For the following steps, please prepare:

- ◆ Bed-cable-cover-bottom (1x)
- ◆ M3n nut (3x)
- ◆ M3x10rT screw (1x)

KROK 6 Attaching the cable cover



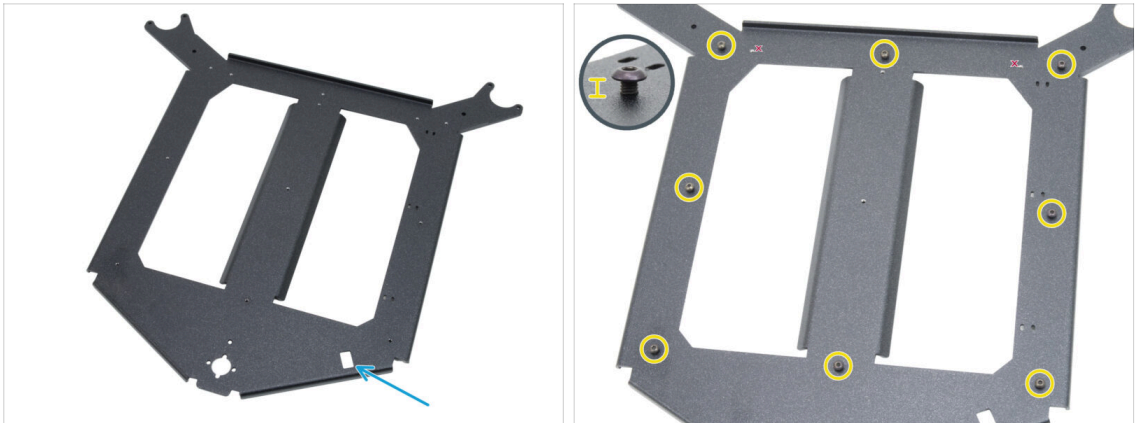
- ✦ Insert three M3n nuts into the Bed-cable-cover-bottom part.
- ❗ Pro tip: Use the screw-pulling technique.
- ⬛ Make sure the nuts are fully inserted and held in place.
- ✦ Insert the Bed-cable-cover-bottom under the heatbed cables. Note the orientation of the part.
- ✦ Slide the Bed-cable-cover-bottom under the cable joint of the heatbed.
- ✦ Line up the hole in the heatbed with the cable cover and secure it with the M3x10rT screw.

KROK 7 Heatbed carriage: parts preparation



- ⬛ **For the following steps, please prepare:**
- ✦ Heatbed carriage (1x) *found in the Metal parts 1/3 package*
- ✦ Expansion joint (8x)
- ✦ M3x4r screw (8x)
- 🔧 The Fasteners package includes both M3x4r and M3x4rT screws. Make sure you have the correct type prepared.

KROK 8 Preparing the heatbed carriage



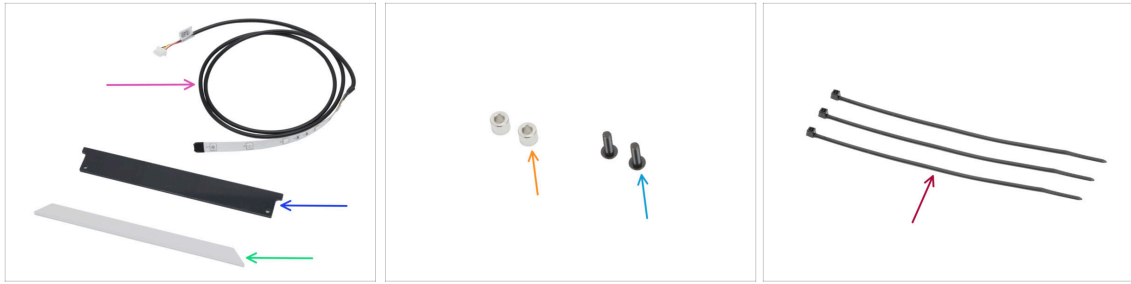
- Place the heatbed carriage in front of you in the same orientation as in the picture.
- Make sure the **rectangular cutout is facing you on the right side**.
- Insert eight M3x4r screws around the heatbed carriage.
- ⚠ **Do not tighten completely, leave a gap of approximately 3 mm (0.12 in).**

KROK 9 Installing the expansion joints



- Attach one expansion joint to any M3x4 screw in the same orientation as shown.
- Note the U-shaped "groove" for the screw inside the expansion joint - point it towards the screw.
- Slide the expansion joint onto the screw.
- Grasp the expansion joint in the rectangular cutout of the universal wrench.
- Position the key with the expansion joint in its correct orientation as shown in the illustration.
- **Maintain the expansion joint in the correct position** and firmly tighten the M3x4r screw through the expansion joint with a 2.0 mm Allen key.
- ⚠ **Repeat this procedure for all other expansion joints. Follow their correct position!**

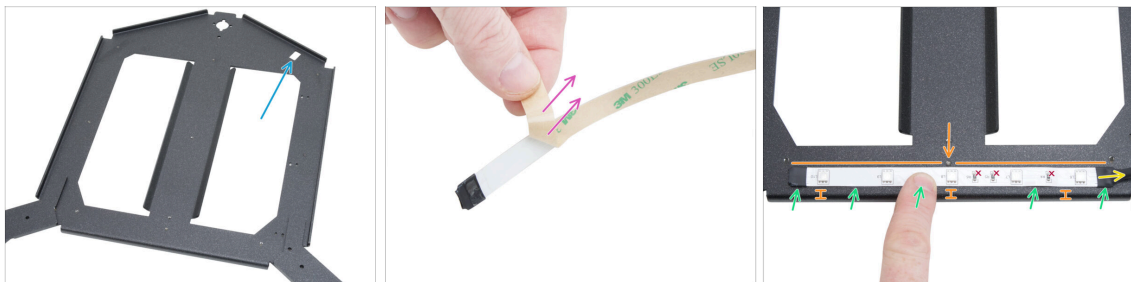
KROK 10 RGB LED strip: parts preparation



For the following steps, please prepare:

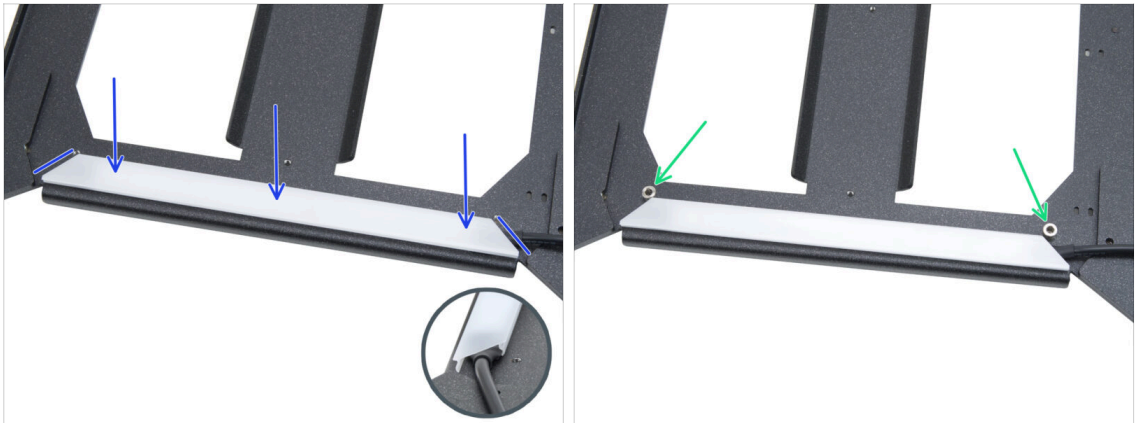
- RGB LED strip 166 mm (1x) *found in the Electronics & Fasteners package*
- ⚠️ **Avoid direct contact with the LED and resistors on the LED strip.**
- LED status cover (1x) *found in the Electronics & Chamber parts package*
- LED strip diffuser (1x) *found in the CoreXY parts + Hinges set package*
- Spacer 3.2/6x5 mm (2x) *found in the Electronics & Fasteners package*
- M3x10rT screw (2x)
- Zip tie (3x)

KROK 11 Installing the LED strip



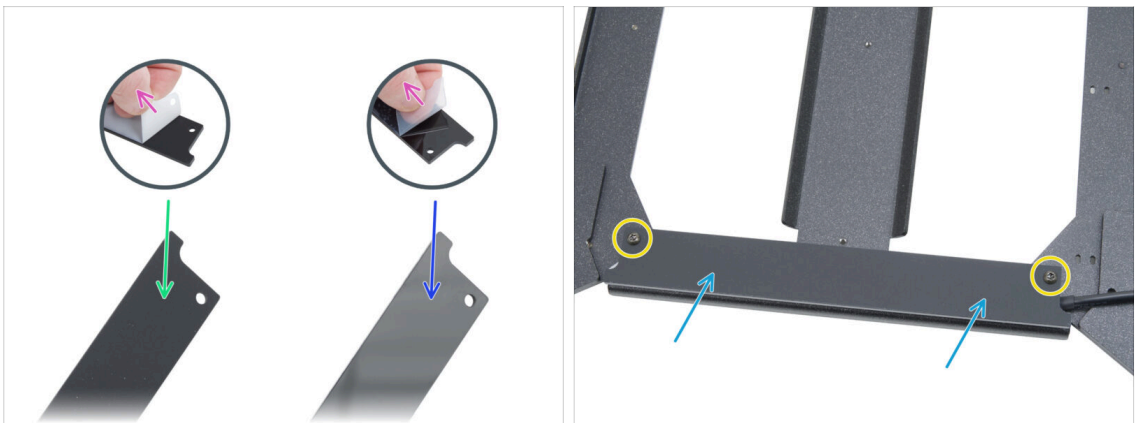
- Place the heatbed carriage in front of you in the same orientation as in the picture.
- Make sure the **rectangular cutout is far from you and on the right side**.
- Carefully peel off the protective (paper) layer from the RGB LED strip.
- ⚠️ **After removing the protective layer, the RGB LED strip is adhesive.**
- Stick the RGB LED strip evenly to the front of the heatbed carriage, approximately 3 mm (0.12 in) from the folded edge.
Align the middle LED with the screw on the carriage.
- The RGB LED strip **must point to the right**.
- After sticking, press lightly on the blank areas of the strip to ensure adhesion. **Do not touch LEDs and resistors!**

KROK 12 Attaching the LED strip diffuser



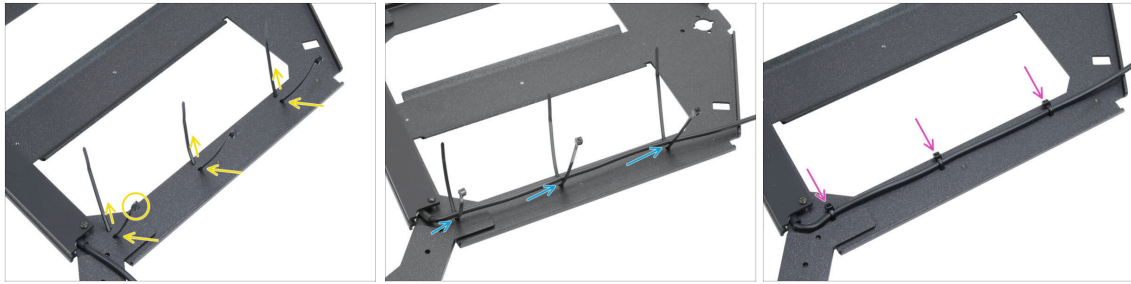
- Place the LED strip diffuser over the RGB LED strip. Note the orientation of the part - according to the beveled edges.
- Place two spacers 3.2/6x5 mm on the holes in the edges of the LED assembly.

KROK 13 Covering the RGB LED strip



- From both sides of the LED status cover, peel off the protective layers.
- Note that one side of the cover is matte.
- The other side of the cover is glossy.
- Attach the LED strip cover to the assembly, **matte side up**.
- Secure all parts together by inserting and tightening two M3x10rT screws. **Do not overtighten the screws**, as it may crack the cover.

KROK 14 Guiding the RGB LED strip cable



- ✦ Thread the three zip ties along the **RIGHT SIDE** of the heatbed carriage. Make sure the zip tie heads are facing outward.
- ✦ Guide the RGB LED strip cable through all zip ties.
- ✦ Then tighten all three zip ties. Cut off excess zip ties.

KROK 15 Bearing Lubrication Preparation



- ✦ **For the following steps, prepare:**
 - ✦ LM8UU Bearing (2x) *removed from the MK4S printer*
 - ✦ Prusa lubricant applicator 8mm (1x)
 - ✦ Prusa lubricant (1x)
 - ✦ Several paper towels to wipe oil and grease from the bearing surface.
- ⚠ **Use the lubricant wisely, less is better! Using too much of the lubricant may cause issues.**

KROK 16 Bearing Lubrication

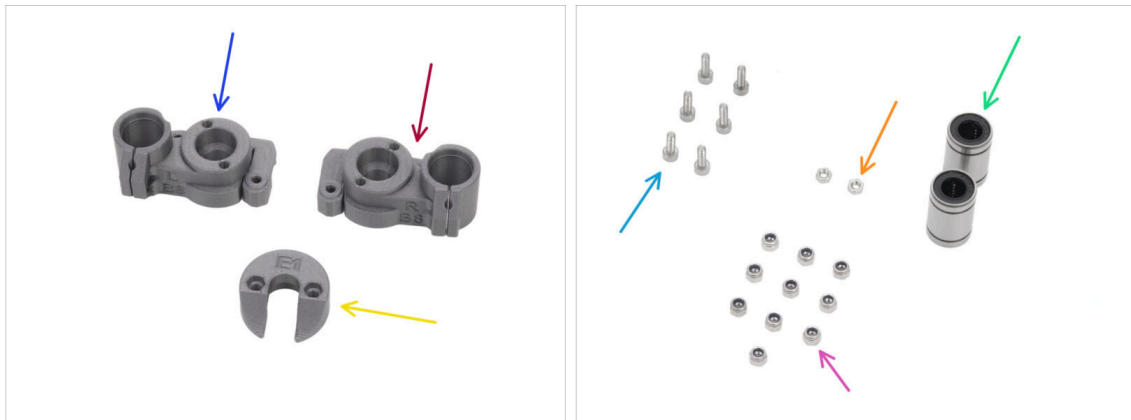


 Use any piece of fabric as a pad to protect your working surface from grease.

 **Make sure the bearing is clean inside.**

-  Wipe the preservative oil off the bearing surface with a paper towel.
-  It is necessary to lubricate all 4 rows of balls inside the bearing.
-  Screw the tube into the applicator.
-  Carefully slide the entire bearing onto the applicator.

KROK 17 Bed mounts: parts preparation



 **For the following steps, please prepare:**

-  CORE-One-bed-mount-left (1x) *found in the Printed parts package*
-  CORE-One-bed-mount-right (1x) *found in the Printed parts package*
-  CORE-One-bed-spacer-rear (1x) *found in the Printed parts package*
-  LM8UU bearing (2x) *freshly lubricated*
-  M3x10 screw (6x)
-  M3n nut (2x)
-  M3nN nut (10x)

KROK 18 Assembling the bed mounts



- Place the CORE-One-bed-mount-left onto the bearing, ensuring the correct orientation.
- Press the part onto the bearing, applying more force to ensure it moves all the way down. You will feel a click, indicating that the plastic part and bearing are correctly seated.
- ⚠ The bearing must be fully enclosed within the part and must not protrude.
- Follow the same procedure with CORE-One-bed-mount-right.

KROK 19 Securing the bed mounts



- Insert one M3n nut into the CORE-One-bed-mount-left.
- Position the CORE-One-bed-mount-left according to the picture:
 - Position the bearing so that two ball rows face the bottom of the part, not just one.
- Keep the bearing in the position and secure it by inserting and tightening one M3x10 screw.
- ⚠ Ensure that the top surface of the bearing is flush with the top surface of the plastic part.
- Follow the same procedure with CORE-One-bed-mount-right.

KROK 20 Bed mounts: inserting the nuts



- Insert four M3nN nuts into both bed mounts.
- Make sure they are inserted completely inside.

KROK 21 Assembling the CORE-One-bed-spacer-rear



- Insert two M3nN nuts into the CORE-One-bed-spacer-rear.
- Insert the nuts down as much as possible.

KROK 22 Installing the bed-mount-right



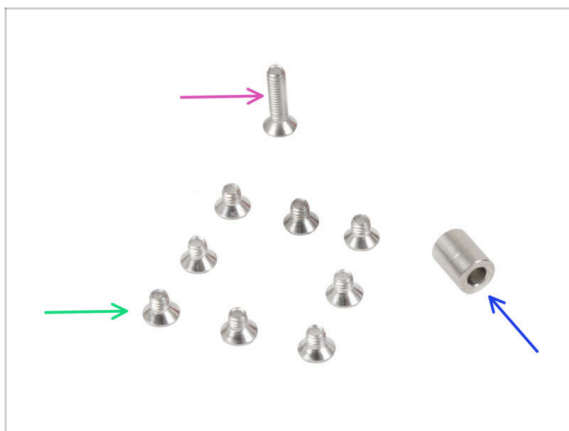
- Turn the heatbed carriage piece with the "forks" facing you and with the **expansion joints facing up**.
- Take the CORE-One-bed-mount-**right** part and slide it **under the right fork** - with the bearing on the right.
- Fix it with two M3x10 screws.

KROK 23 Installing the bed-mount-left



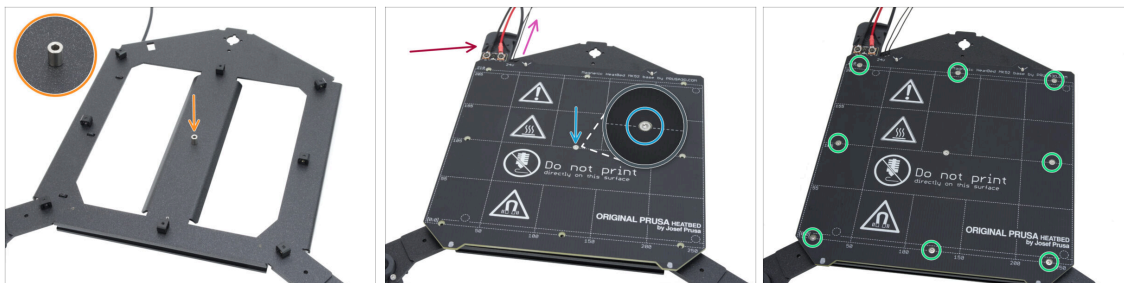
- Take the One-bed-mount-**left** part and slide it **under** the **left** fork - with the bearing on the left.
- Fix it with two M3x10 screws.

KROK 24 Mounting the heatbed: parts preparation



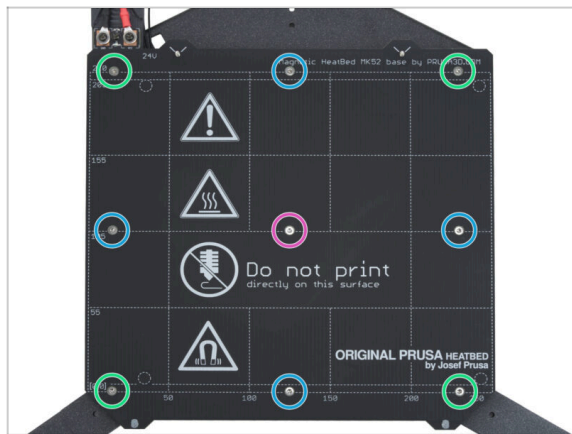
- For the following steps, please prepare:
- M3x12bT screw (1x)
 - i* The screw may also be labeled M3x12cT.
- Spacer 6x3.1x8 mm (1x) *from the disassembled printer*
- M3x4bT screw (8x)
 - i* The screw may also be labeled M3x4cT.

KROK 25 Mounting the heatbed



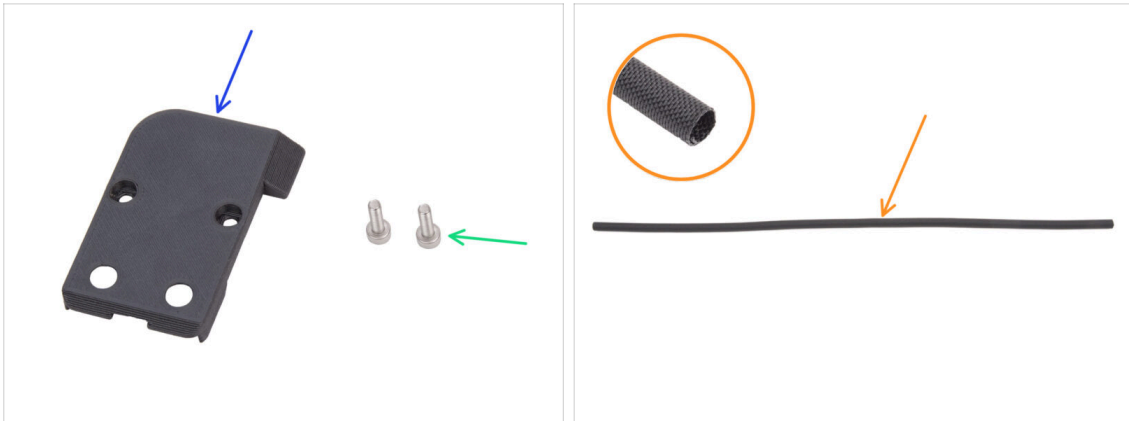
- Place the spacer onto the heatbed carriage on the side with the expansion joints and align it with the hole in the center.
- Put the heatbed on the heatbed carriage and secure it by the M3x12bT. **Do not fully tighten the screw yet.**
 - Make sure the heatbed thermistor cable (the thinnest pair) is routed alongside the heatbed power cables. Do not route it around or across any expansion joints.
- ⚠ **Ensure the correct orientation of the part. Use the heatbed cables as a guide.**
- Insert the M3x4bT screws into the remaining holes in the heatbed. **Do not fully tighten the screws yet.**

KROK 26 Tightening the heatbed



- ⚠ **IMPORTANT:** The heatbed must be tightened in a specific order. Repeat the sequence multiple times, ensuring the final tightening after at least two rounds.
- After all screws are in place, tighten them in the following sequence:
 - Center screw
 - First four screws (edges)
 - Last four screws (corners)
- ⚠ Tighten the screws gently, but firmly.

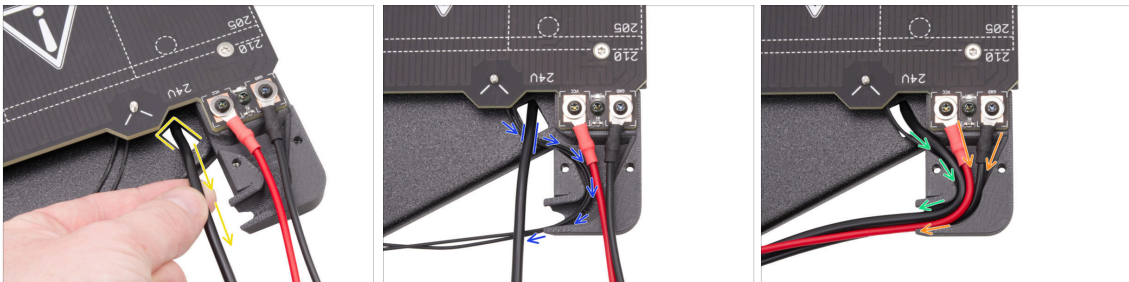
KROK 27 Covering the cables: parts preparation



■ For the following steps, please prepare:

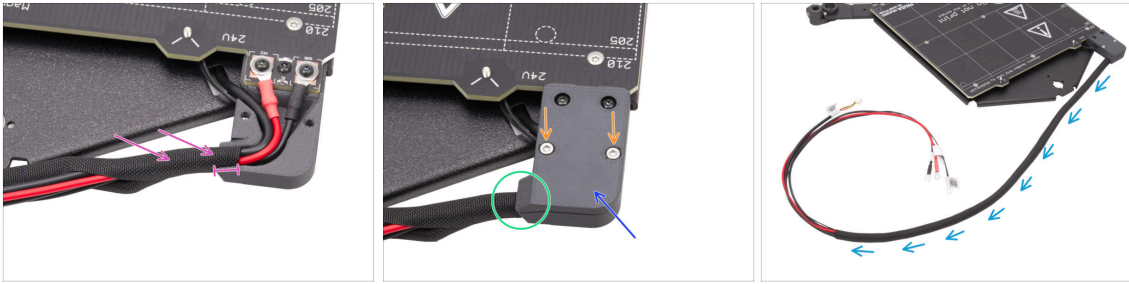
- CORE-One-bed-cable-cover-top (1x) found in the *Printed parts package*
- M3x10 screw (2x)
- Textile sleeve 520 x 8 mm (1x) found in the *Electronics & Chamber parts package*

KROK 28 Guiding the heatbed cables



- Pull the RGB LED strip cable from the bottom through the rectangular cutout to the top.
- Guide the heatbed thermistor cable under the RGB LED cable, and insert the heatbed thermistor cable into the cable channel in the cable cover.
- Route the RGB LED strip cable through the cable channel.
- Guide the heatbed power cables through the cable channel.

KROK 29 Covering the heatbed cables



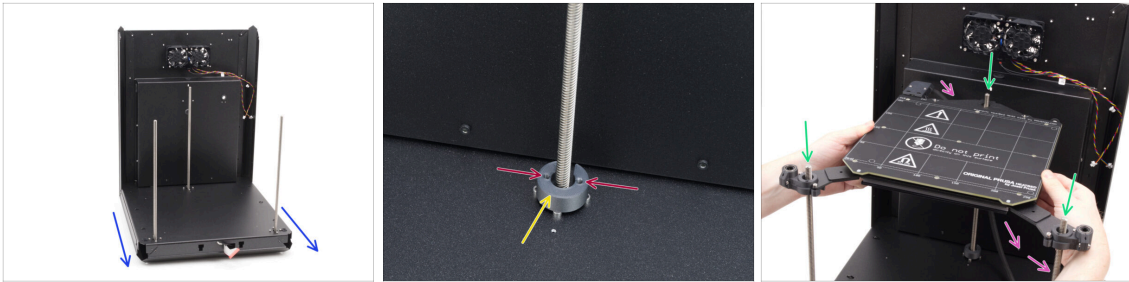
- ✦ Thread approximately 5 cm (2 in) of the textile sleeve onto the heatbed cable bundle and slide the textile sleeve 1 cm (0.39 in) into the cable channel.
- ✦ Attach the CORE-One-bed-cable-cover-top on the heatbed cables.
- ✦ Make sure the textile sleeve is still in place - inside the cable cover. **Do not pull on the textile sleeve.**
- ✦ Secure the top cover with two M3x10 screws.
- ✦ Wrap the rest of the textile sleeve around the cable bundle.

KROK 30 Mounting the heatbed: parts preparation



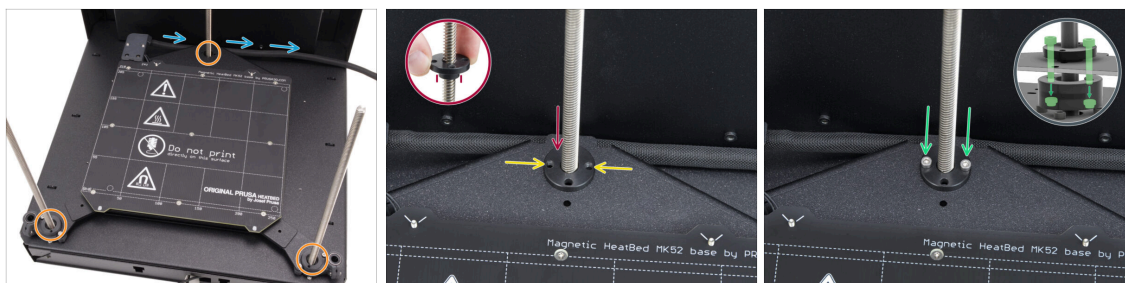
- ✦ **For the following steps, please prepare:**
 - ✦ Trapezoidal nut (3x)
 - ⓘ Two of these trapezoidal nuts are from the disassembled printer. The last one is in the Electronics and Chamber parts package.
 - ✦ M3x18 screw (6x)

KROK 31 Attaching the heatbed assembly



- Take the back and base assembly and orient the front side towards you.
- Place the CORE-One-bed-spacer-rear onto the rear motor screw heads, making sure it stays in place.
 - ⚠ Note the orientation of the part and holes as shown. The holes must be parallel to the motor screw heads.
- Very carefully thread the heatbed assembly onto the threaded rods of the Z motors, then gently lay it down onto the base.
 - ⚠ Keep in mind that there is a spacer on the rear motor. Avoid the spacer by the heatbed cable.
- The heatbed cable must run **under the heatbed** and **behind the rear motor**.

KROK 32 Mounting the heatbed assembly: rear motor



- ❖ Ensure the heatbed assembly is seated correctly—all threaded rods pass through the correct holes.
- ❖ Double-check that the heatbed cable bundle (textile sleeve) runs properly—it **must go under the heatbed assembly** and **behind the threaded rod** of the rear motor.
- ❖ Manually thread the trapezoidal nut onto the rear Z motor. Screw the nut all the way down until it seats into the heatbed carriage.
 - ⚠ Ensure the correct orientation of the part. **The protruding section must face downwards.**
- ❖ Align the holes in the trapezoidal nut, carriage and bed-spacer-rear.
 - i It doesn't matter which holes you use in the trapezoidal nut.
 - i Tip: You can push a 1.5 mm Allen key through the holes in all the parts to align them.
- ❖ Secure the trapezoidal nut, heatbed carriage and bed-spacer-rear together with two M3x18 screws.

KROK 33 Mounting the heatbed assembly: front motor left



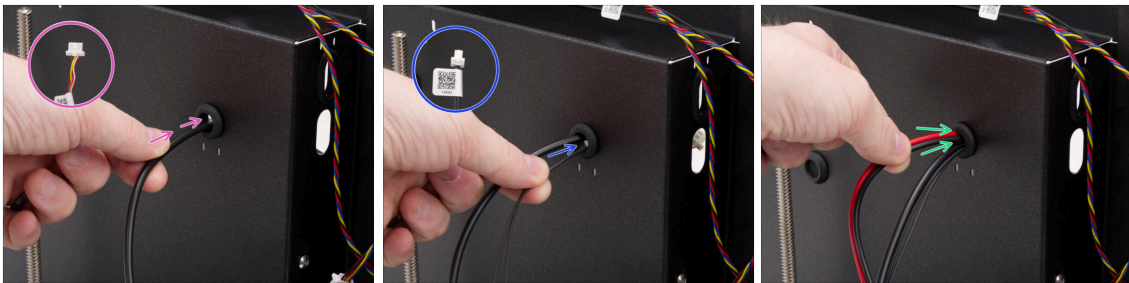
- ❖ Manually thread the trapezoidal nut onto the **left** Z motor. Screw the nut all the way down until it seats into the plastic part.
 - ⚠ Ensure the correct orientation of the part. **The protruding section must face downwards.**
- ❖ Align the holes in the trapezoidal nut with those in the plastic part. Either pair of holes can be used.
- ❖ Secure all the part together with two M3x18 screws.

KROK 34 Mounting the heatbed assembly: front motor right



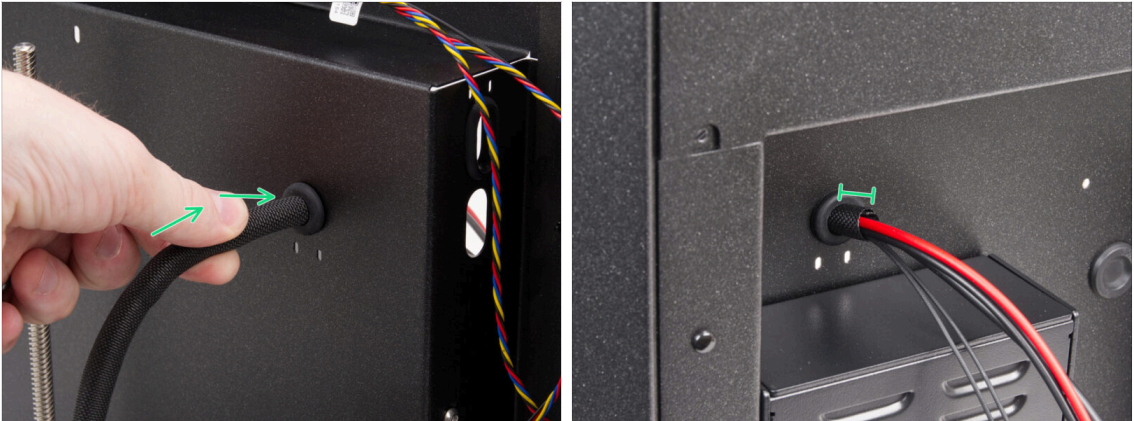
- Manually thread the trapezoidal nut onto the **right** Z motor. Screw the nut all the way down until it seats into the plastic part.
- ⚠ Ensure the correct orientation of the part. **The protruding section must face downwards.**
- Align the holes in the trapezoidal nut with those in the plastic part. Either pair of holes can be used.
- Secure all the part together with two M3x18 screws.

KROK 35 Attaching the heatbed cables I.



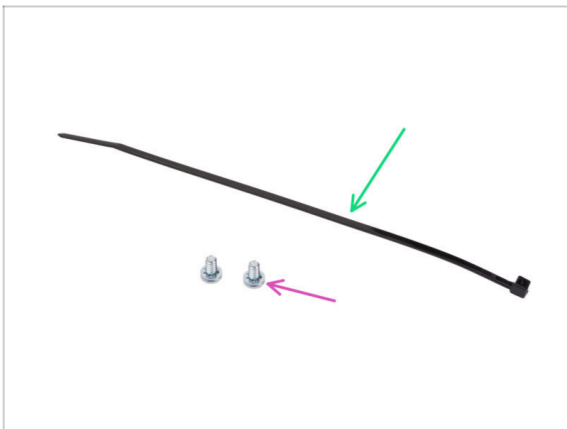
- Locate the grommet hole at the top right of the rear assembly and push the heatbed cables through in the following order:
 - Guide the RGB LED strip cable through the hole first.
 - Route the thermistor cable through.
 - Finally, insert both power cables through the hole.

KROK 36 Attaching the heatbed cables II.



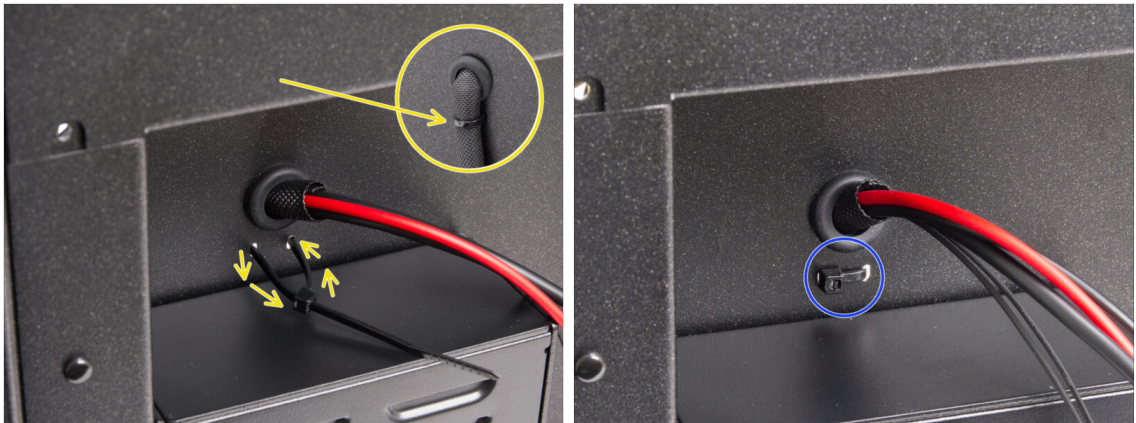
- Push the heatbed cables and the textile sleeve through the grommet hole.
- ⬛ No more than 1 cm (0.39 in) of the textile sleeve should protrude from the back side.

KROK 37 Securing the heatbed cables: parts preparation



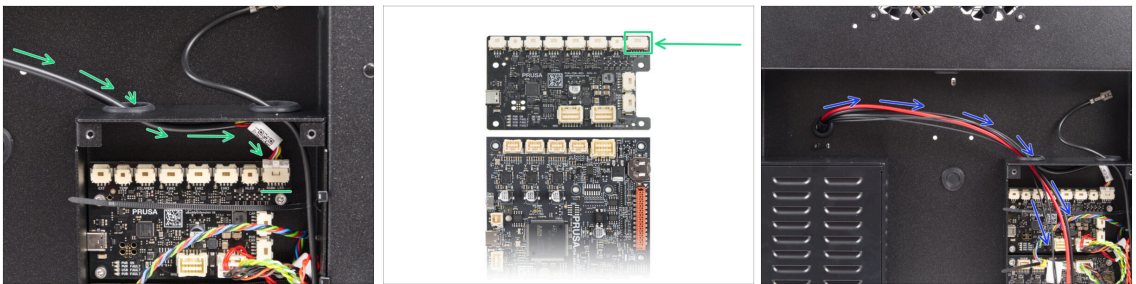
- ⬛ **For the following steps, please prepare:**
- Zip tie (1x)
- 6/32" terminal screw (2x)

KROK 38 Securing the textile sleeve



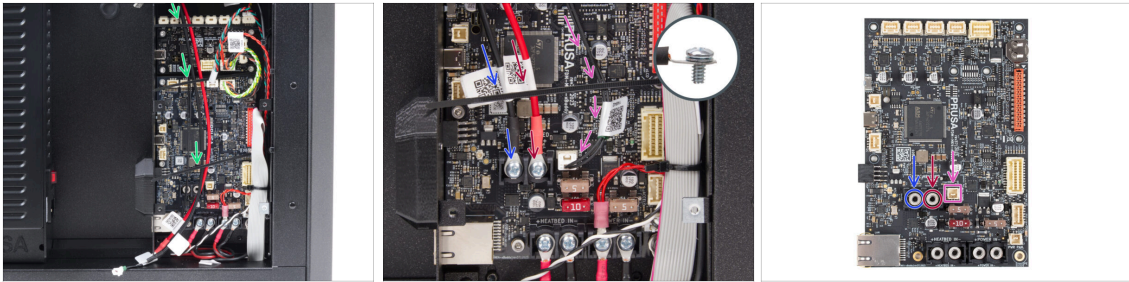
- Guide the zip tie through the two holes under the heatbed cables and make a loop around the heatbed cable bundle (textile sleeve) on the inside.
- Tighten the zip tie firmly and cut off the excess.

KROK 39 Guiding the heatbed assembly cables



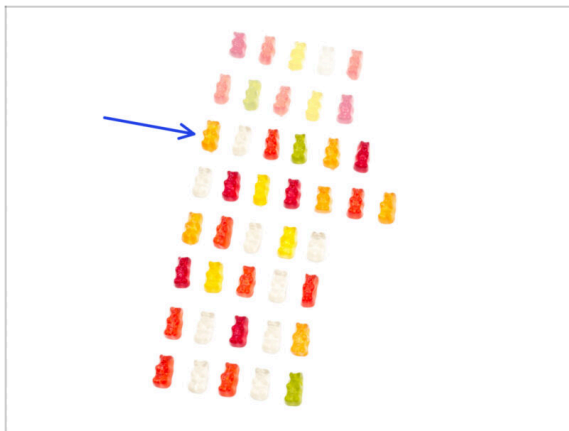
- Route the RGB LED strip cable through the left hole in the xBuddy box and connect it to the first slot on the xBuddy board labeled 'RGBW LED.'
- Connect it to the first slot from the right on the xBuddy extension board.
- Guide the heatbed power cables along with the thermistor through the left hole. Leave the cables hanging freely for now.

KROK 40 Connecting the heatbed power cables



- Ensure that none of the heatbed cables run over the zip ties—they must be guided underneath.
- Using the 6-32 terminal screw, connect the **black** power cable to the **left** terminal on the xBuddy board. Tighten firmly.
- Using the 6-32 terminal screw, connect the **red** power cable to the **right** terminal. Tighten firmly.
- Plug the heatbed thermistor connector to the connector next to the power terminals.

KROK 41 Czas na Haribo



- Time for another quick energy boost!
- Eat the third row.
 - With one extra treat. You deserve it!

5. Montaż CoreXY



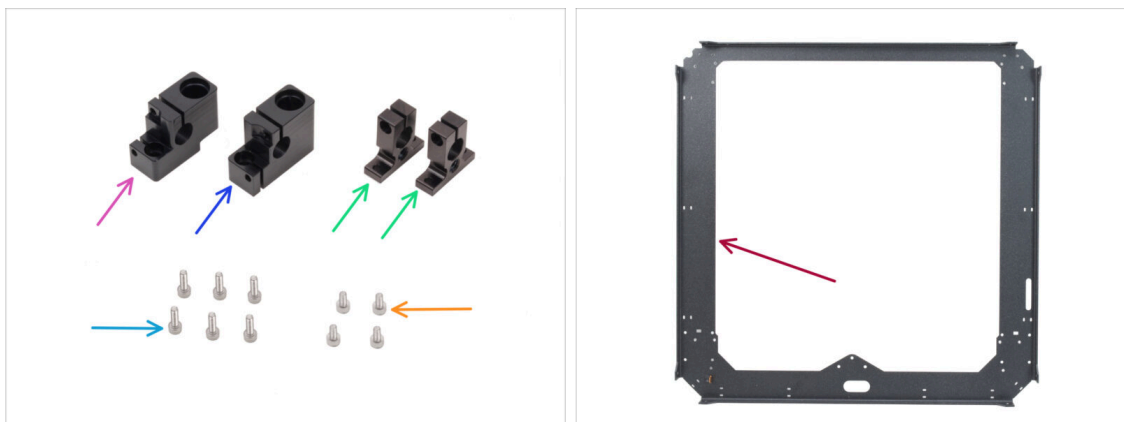
KROK 1 Tools necessary for this chapter



● **For this chapter, please prepare:**

- Needle-nose pliers
- 2.0mm Allen key
- 2.5mm Allen key
- T10 torx key / T10 torxy screwdriver

KROK 2 Rod holders: parts preparation



● **For the following steps, please prepare:**

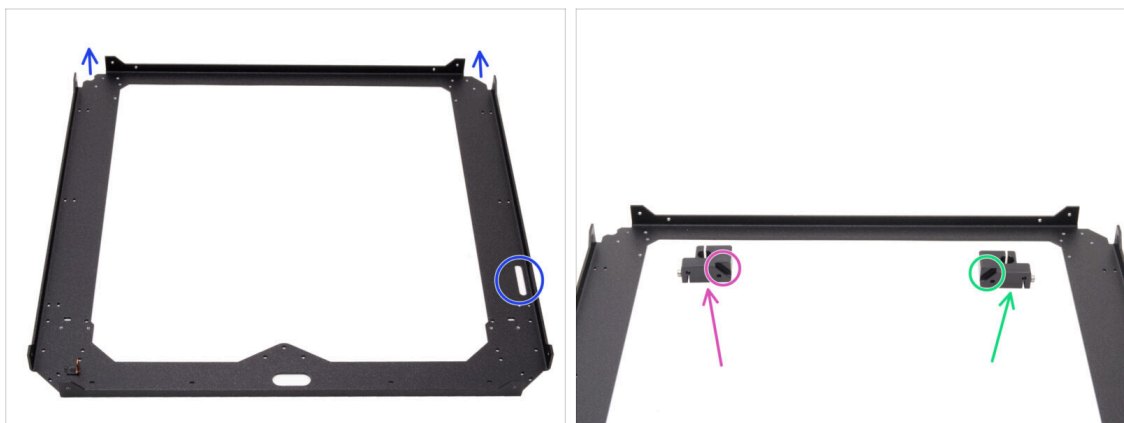
- Rod holder left (1x) *found in the CORE XY parts + hinges + HB set package*
- Rod holder right [Mocowanie pręta - prawe] (1x) *znajduje się w pakiecie CORE XY parts + hinges + HB set*
- Rod holder rear (2x) *found in the CORE XY parts + hinges + HB set package*
- M3x10 screw (6x)
- M3x6 screw (4x)
- CoreXY plate (1x) *found in the Metal parts 1/3 package*

KROK 3 Assembling the rod holders



- Insert two M3x10 screws into the Rod holder left and two into the Rod holder right.
- **Do not tighten them completely, a few turns are enough for now.**
- Wkręć po jednej śrubie M3x10 w każdy tylny uchwyt pręta od strony z pogłębieniem pod łeb śruby.
- **Do not tighten them completely, a few turns are enough for now.**

KROK 4 Preparing the front rod holders



- Place the CoreXY plate as shown - the **bent parts of the plate must point upwards**.
- Divide the Rod holder left and the Rod holder right into the sides of the front:
 - ⚠ Upewnij się, że przygotowujesz właściwą część dla właściwej strony. Spójrz na fazki na obu częściach jako odniesienie do wyrównania.
 - Rod holder left
 - Rod holder right

KROK 5 Installing the front rod holders



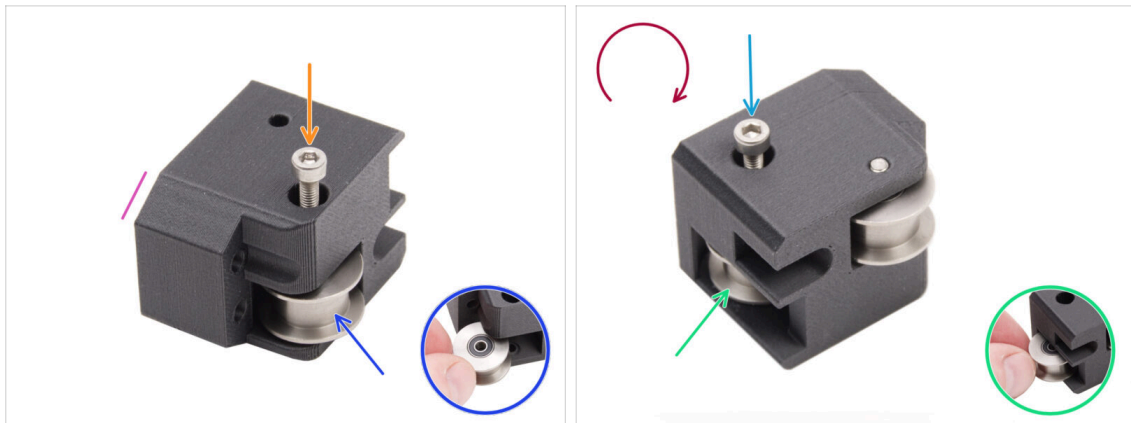
- Place the Rod holder left to the left front corner on the corresponding threaded holes.
- Secure it with two M3x6 screws.
- Umieść prawy uchwyt pręta w prawym przednim rogu na odpowiednich gwintowanych otworach.
- Secure it with two M3x6 screws.

KROK 6 XY carriage: parts preparation



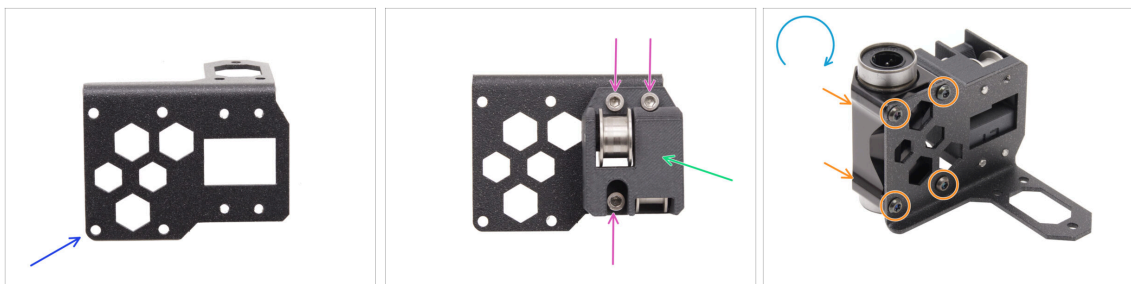
- For the following steps, please prepare:
- Linear holder left (1x) found in the Metal parts 1/3 package
 - Mocowanie liniowe - prawe [Linear holder right] (1x) znajduje się w pakiecie Metal parts 1/3
 - XY-carriage (2x) found in the Printed parts package
 - LM10LUU linear bearing (2x) found in the CORE XY parts + hinges + HB set package
 - GT2-20 Idler pulley (4x) found in the Electronics & Fasteners package
 - M3x8rT black screw (8x)
 - M3x18 screw (10x)

KROK 7 Assembling the XY-carriages



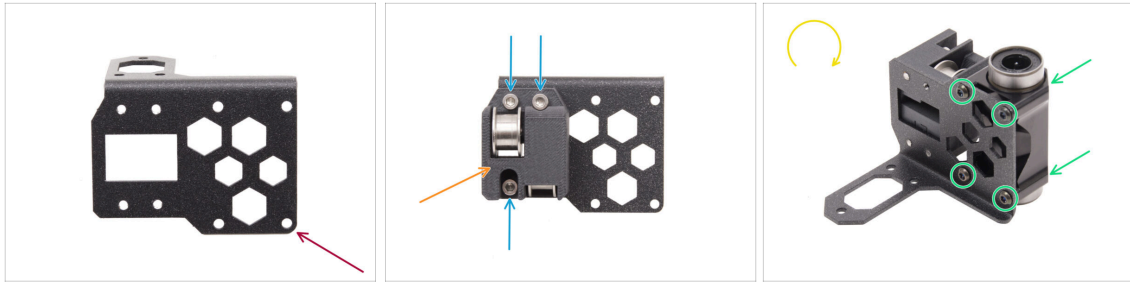
- ◆ Take one of the XY-carriage and orient it as shown. Use the beveled side as a guide.
- ◆ Insert the GT2-20 Idler pulley into the XY-carriage.
- ◆ Wsuń jedną śrubę M3x18 przez koło pasowe i dokręć ją całkowicie.
- ◆ Turn the part upside down.
- ◆ Insert another GT2-20 Idler pulley into the XY-carriage.
- ◆ Secure it with the M3x18 screw. Tighten it completely down.
- ◆ Repeat the same procedure with the second XY-carriage.

KROK 8 Assembling the linear holder left



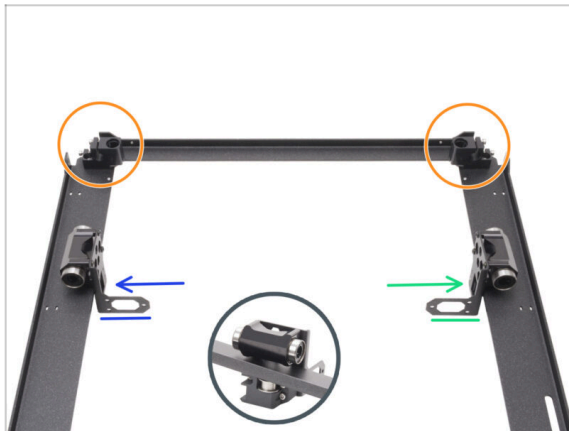
- ◆ Prepare the Linear holder **left** and position it as in the picture.
- ◆ Attach one of the XY-carriages to the Linear holder.
- ◆ Install it to the Linear holder with three M3x18 screws.
- ◆ Turn the Linear holder upside down.
- ◆ From the XY-carriage side, attach the LM10LUU linear bearing to the holder and secure it with four M3x8rT screws.

KROK 9 Assembling the linear holder right



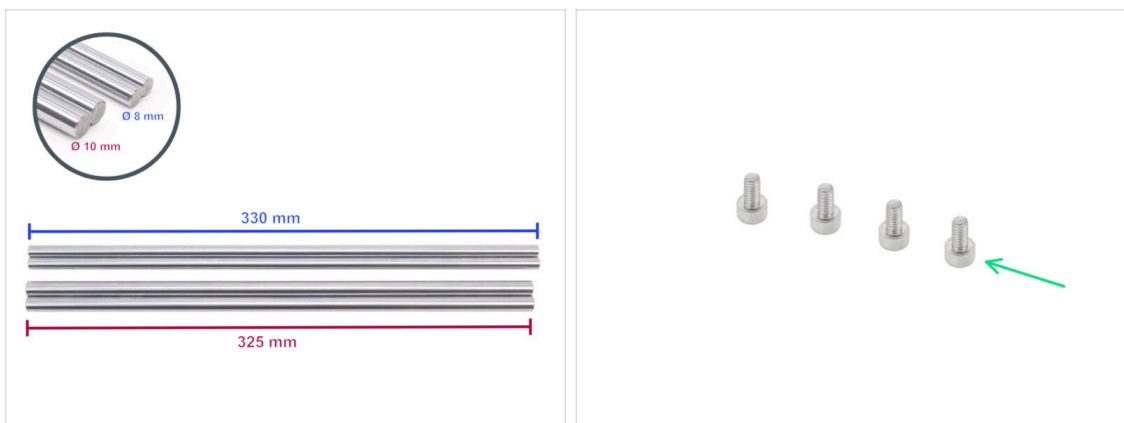
- Prepare the Linear holder **right** and position it as in the picture.
- Attach one of the XY-carriages to the Linear holder.
- Install it to the Linear holder with three M3x18 screws.
- Turn the Linear holder upside down.
- From the XY-carriage side, attach the LM10LUU linear bearing to the holder and secure it with four M3x8rT screws.

KROK 10 Attaching the linear holder assemblies



- Position the CoreXY plate as shown in the picture, ensuring the front rod holders are facing up.
- Slightly lift the CoreXY plate and from the plate's inner side loosely attach the Linear holder of the assemblies.
- **Linear holder left**
- **Linear holder right**
- ① The linear holders are now only loosely seated.

KROK 11 Smooth rods INFO



⬛ The printer requires different smooth rod sizes. Ensure you have the correct ones:

- 🔵 Smooth rod 330 x 8 mm (2x)
- 🔴 Pręt liniowy 10x325 mm (2x)
*pierwotnie z osi Z,
potrzebne do kolejnych etapów*

⬛ Also prepare:

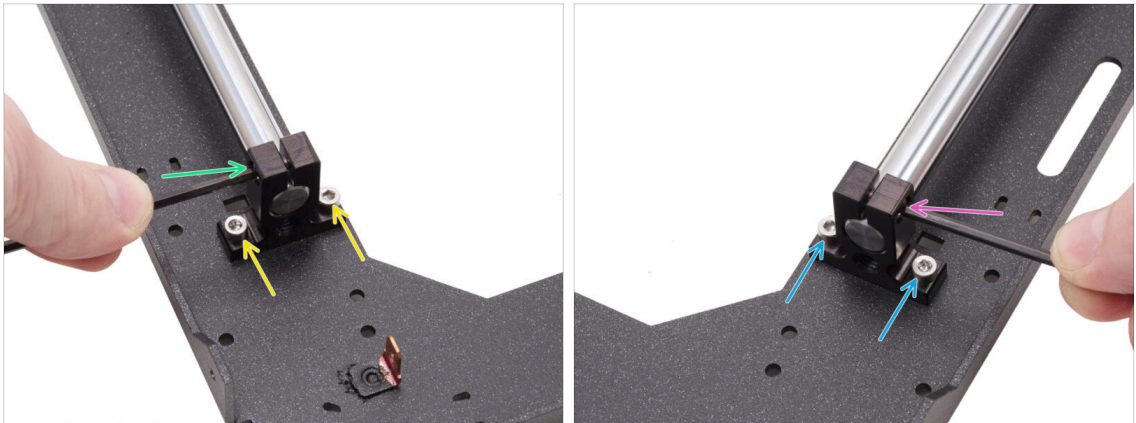
- 🟢 M3x6 screw (4x)

KROK 12 Mounting the smooth rods



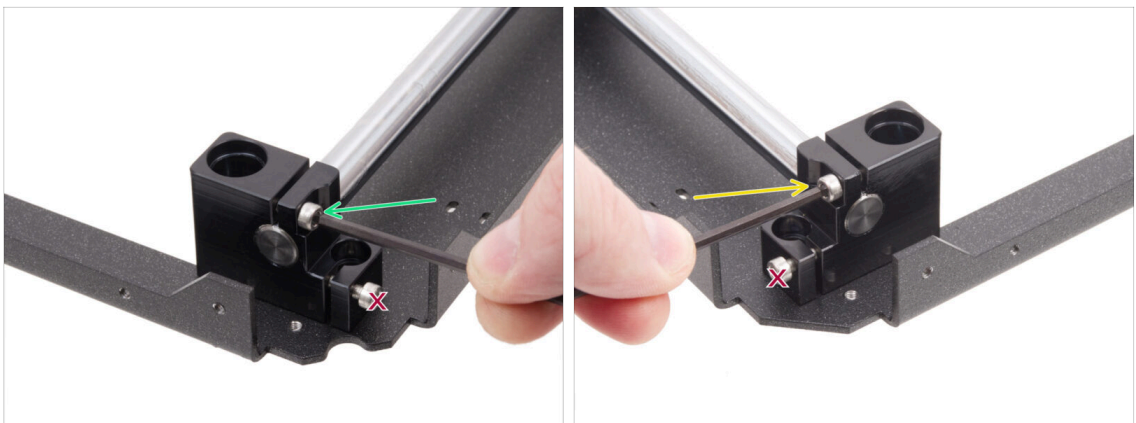
- 🔵 Slide both rear rod holders onto both 10mm smooth rods.
- 🟡 Line up the ends of the rods with the holders.
- 🟠 Push both 10mm smooth rods through the LM10LUU bearing to the front rod holders.
- ⬛ Make sure the screws on the rear rod holders are pointing out of the frame.
- 🟡 Line up the front end of the 10mm smooth rods with the front rod holders.

KROK 13 Securing the rear rod holders



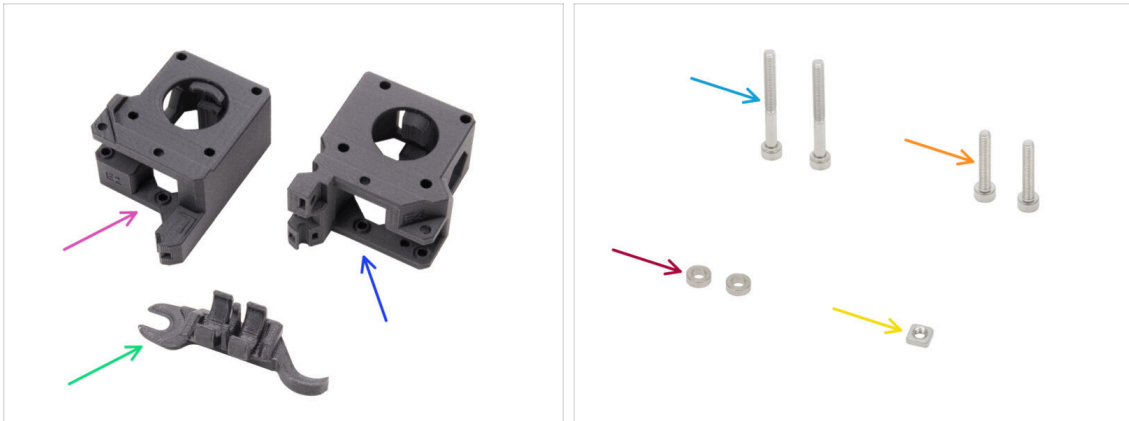
- Line up the left rear rod holder with the threaded holes in the plate.
- Fix it with two M3x6 screws.
- Firmly tighten the screw in the rod holder.
- Line up the right rear rod holder with the threaded holes in the plate.
- Fix it with two M3x6 screws.
- Firmly tighten the screw in the rod holder.

KROK 14 Securing the front rod holders



- Focus on the front left holder (now on the right) and secure the rod by tightening the screw in the holder.
- ⚠ **Do not tighten the bottom screw.**
- Focus on the front right holder (now on the left) and secure the rod by tightening the screw in the holder.
- ⚠ **Do not tighten the bottom screw.**

KROK 15 Motor mounts: parts preparation

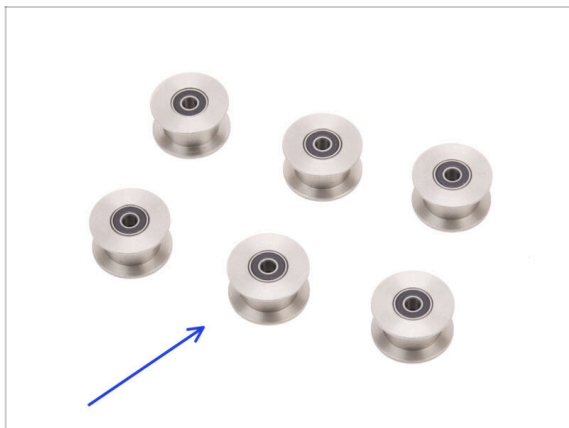


● **For the following steps, please prepare:**

- XY-motor-mount-left (1x) *found in the Printed parts package*
- XY-motor-mount-right (1x) *found in the Printed parts package*
- Assembly-multi-tool (1x) *you already used*
- M3x30 screw (2x)
- M3x18 screw (2x)
- Spacer 3.2/6x2 (2x) *found in the Electronics & Fasteners package*
- M3nS nut (1x)

❗ The list continues in the next step...

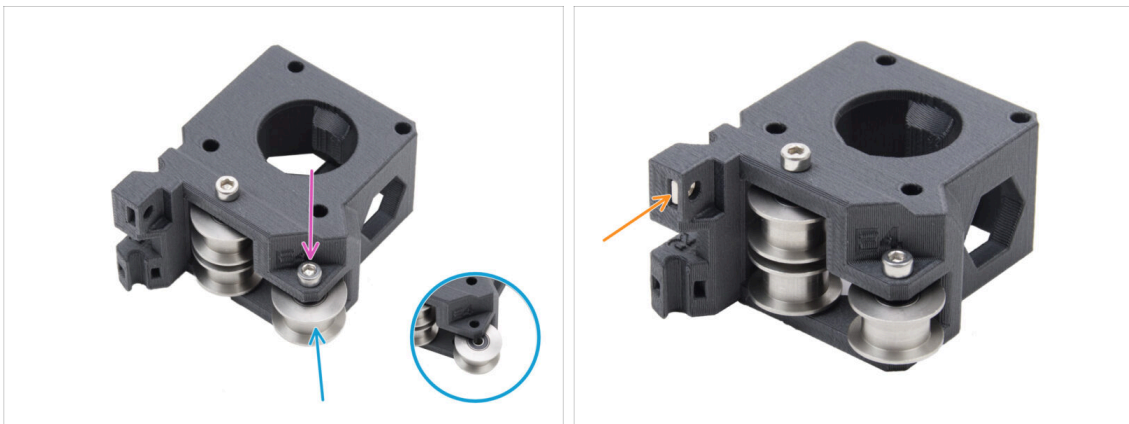
KROK 16 Motor mounts: part preparation



- GT2-20 Idler pulley (6x) *found in the Electronics & Fasteners package*

KROK 17 Assembling the XY-motor-mount-right I.

- ✦ Insert one pulley into the lower position in the Assembly-multi-tool.
- ✦ Insert the spacer 3.2 on the pulley.
- ✦ Insert the second pulley into the Assembly-multi-tool.
- ✦ Insert the whole assembly into the XY-motor-mount-right.
 - ⬛ Position the part according to the picture. Note the beveled corner.
- ✦ Align holes in both parts and secure it with the M3x30 screw.
 - 🔩 The plastic part has no pre-cut thread, so the screw will create it as you tighten. Slight resistance is expected.
- ✦ Remove the Assembly-multi-tool.

KROK 18 Assembling the XY-motor-mount-right II.

- ✦ Insert another pulley into the XY-motor-mount-right.
- ✦ Secure it with M3x18 screw.
 - ⓘ The plastic part has no pre-cut thread, so the screw will create it as you tighten. Slight resistance is expected.
- ✦ Insert the M3nS nut into the XY-motor-mount-right.

KROK 19 Assembling the XY-motor-mount-left I.



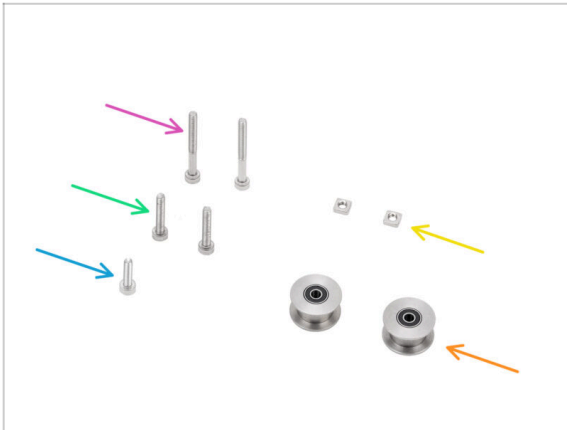
- ✦ Insert one pulley into the lower position in the Assembly-multi-tool.
- ✦ Insert the spacer 3.2 on the pulley.
- ✦ Insert the second pulley into the Assembly-multi-tool.
- ✦ Insert the whole assembly into the XY-motor-mount-left.
 - ⬛ Position the part according to the picture. Note the bevel next to the screw hole.
- ✦ Align holes in both parts and secure it with the M3x30 screw.
 - ⓘ The plastic part has no pre-cut thread, so the screw will create it as you tighten. Slight resistance is expected.
- ✦ Remove the Assembly-multi-tool.

KROK 20 Assembling the XY-motor-mount-left II.



- ✦ Insert another pulley into the part.
- ✦ Secure it with M3x18 screw. **Do not overtighten the screw.**
 - ⓘ The plastic part has no pre-cut thread, so the screw will create it as you tighten. Slight resistance is expected.

KROK 21 Belt tensioners: parts preparation I.



● For the following steps, please prepare:

● GT2-20 Idler pulley (2x) *you have removed from the MK4S*

● M3x30 screw (2x)

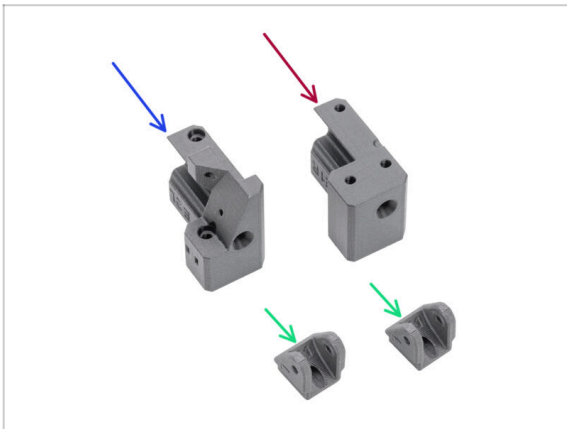
● M3x18 screw (2x)

● M3x12 screw (1x)

● M3nS nut (2x)

ⓘ The list continues in the next step...

KROK 22 Belt tensioners: parts preparation II.



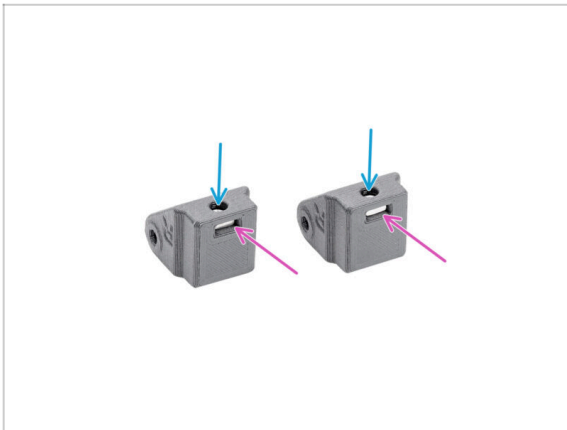
● For the following steps, please prepare:

● Belt-tensioner-left (1x) *found in the Printed parts package*

● Belt-tensioner-right (1x) *found in the Printed parts package*

● Belt-tensioner-pulley (2x) *found in the Printed parts package*

KROK 23 Preparing the tensioner pulleys



- ✦ Insert one M3nS nut into each Belt-tensioner-pulley.
- ✦ Make sure the nuts are correctly inserted into the parts. The holes in the nuts and the parts **must be aligned**.
- ✦ Keep both parts in this position.

KROK 24 Assembling the belt tensioner left I.



- ✦ Apply a small amount of Prusa lubricant to the tip of both M3x30 screws.
- ✦ Spread the lubricant evenly around the entire thread.
- ⓘ Tip: Use the tip of a zip tie to spread the lubricant.
- ✦ Slide the Belt-tensioner-left onto the Belt-tensioner-pulley.
- ✦ Ensure the parts are oriented correctly, as shown.
- ✦ Insert the M3x30 screw through the Belt-tensioner-left into the Belt-tensioner-pulley. **Do not tighten completely!** 3-4 turns are sufficient.

KROK 25 Assembling the belt tensioner left II.



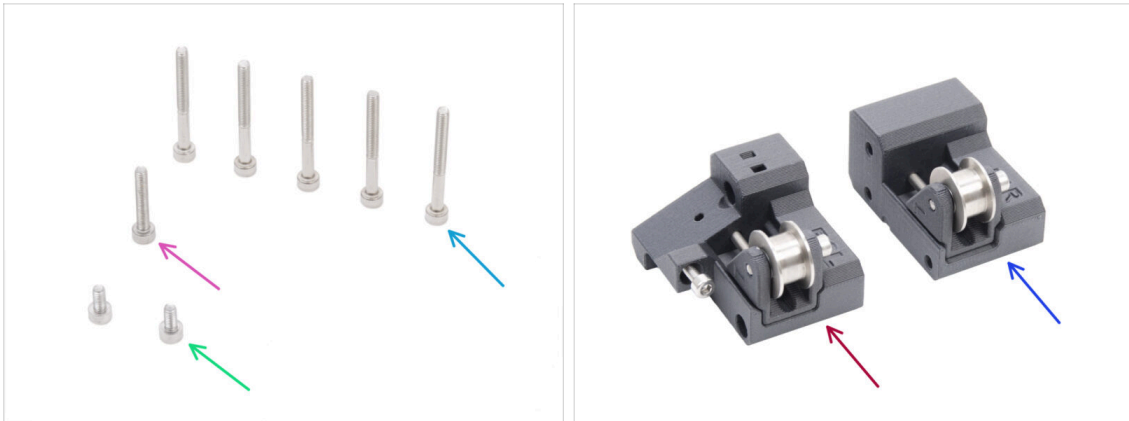
- Insert the GT2-20 Idler pulley into the Belt-tensioner-pulley.
- Secure it with the M3x18 screw.
 - ⓘ The plastic part has no pre-cut thread, so the screw will create it as you tighten. Slight resistance is expected.
- Insert the M3x12 screw into the Belt-tensioner-left. Tighten slightly—five turns are enough. It must not protrude through the other side.
 - ⓘ Note: This screw, referred to as the tensioning screw, will later be used to adjust the door sensor.

KROK 26 Assembling the belt tensioner right



- Slide the Belt-tensioner-**right** onto the Belt-tensioner-pulley.
 - **Ensure the parts are oriented correctly**, as shown.
- Insert the M3x30 screw through the Belt-tensioner-right into the Belt-tensioner-pulley. **Do not tighten completely!** 3-4 turns are sufficient.
- Insert the GT2-20 Idler pulley pulley into the Belt-tensioner-pulley-right.
- Secure it with the M3x18 screw.
 - ⓘ The plastic part has no pre-cut thread, so the screw will create it as you tighten. Slight resistance is expected.

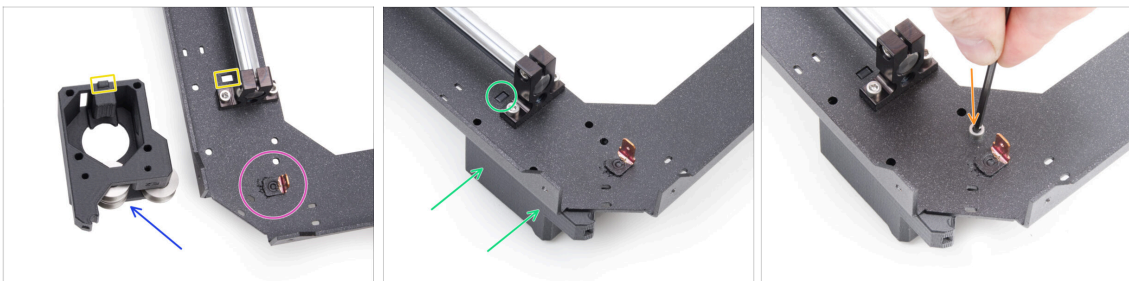
KROK 27 Installing the belt tensioners: parts preparation



● For the following steps, please prepare:

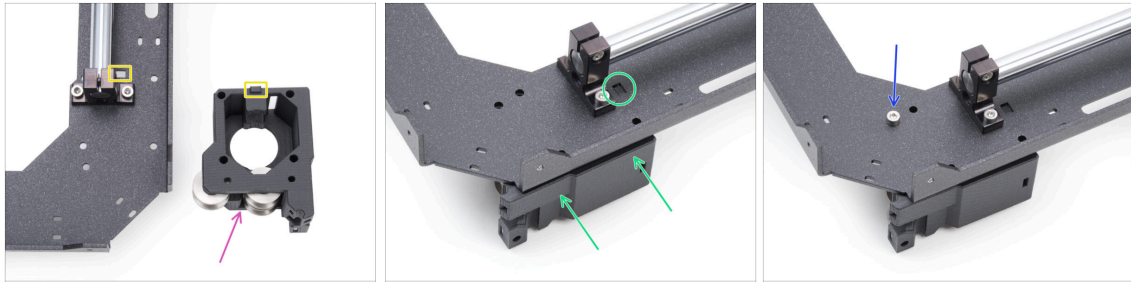
- M3x30 screw (5x)
- M3x18 screw (1x)
- M3x6 screw (2x)
- Belt tensioner left assembly (1x) *you assembled earlier*
- Belt tensioner right assembly (1x) *you assembled earlier*

KROK 28 Installing the motor mount left



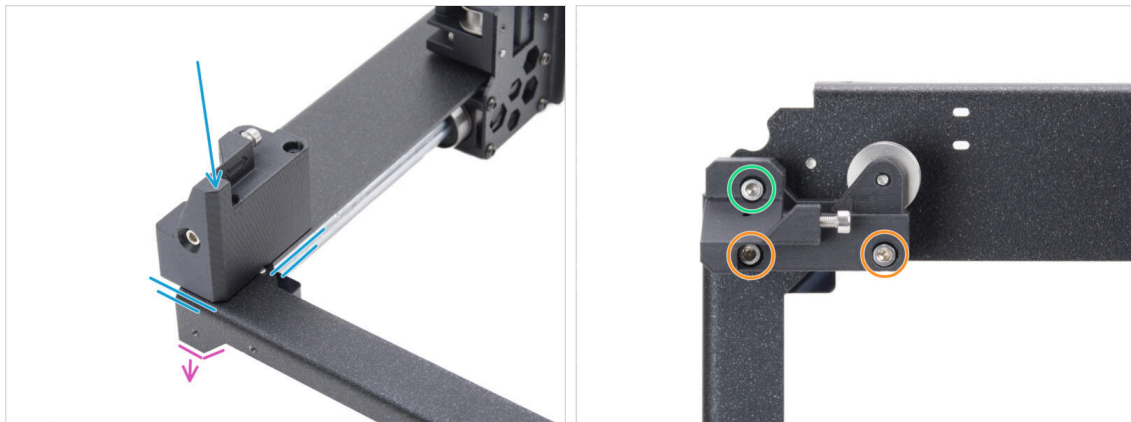
- Locate the corner of the CoreXY plate with the Faston connector on it. It is on the underside of the assembly.
- Position the motor-mount-**left** on the CoreXY plate as shown in the picture.
- Note the rectangular protrusion on the motor-mount-left and the rectangular cutout on the CoreXY plate.
- Slide the motor-mount-left under the CoreXY plate, ensuring the rectangular protrusion fits into the cutout.
- Align the holes in both parts and secure them with an M3x6 screw in the designated hole

KROK 29 Installing the motor mount right



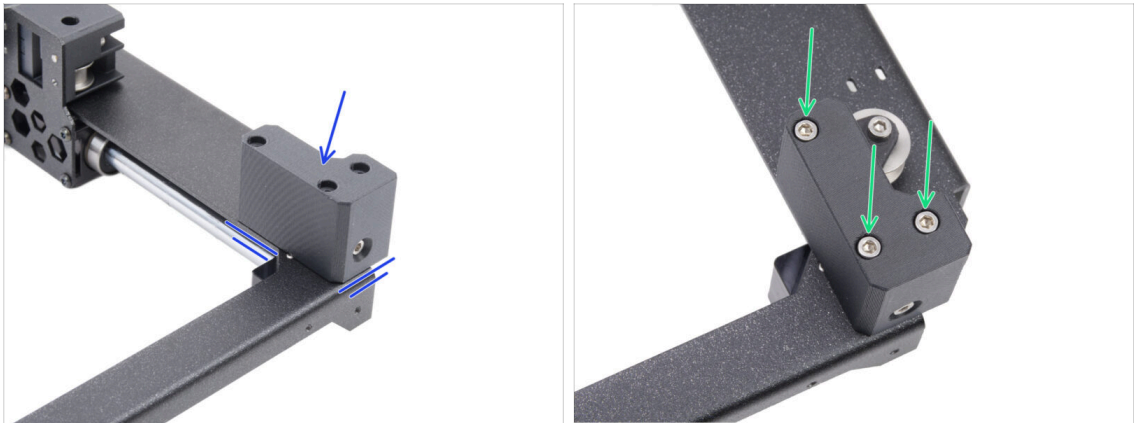
- ◆ Position the motor-mount-**right** on the CoreXY plate as shown in the picture.
- ◆ Note the rectangular protrusion on the motor-mount-right and the rectangular cutout on the CoreXY plate.
- ◆ Slide the motor-mount-right under the CoreXY plate, ensuring the rectangular protrusion fits into the cutout.
- ◆ Align the holes in both parts and secure them with an M3x6 screw in the designated hole

KROK 30 Installing the belt-tensioner-left



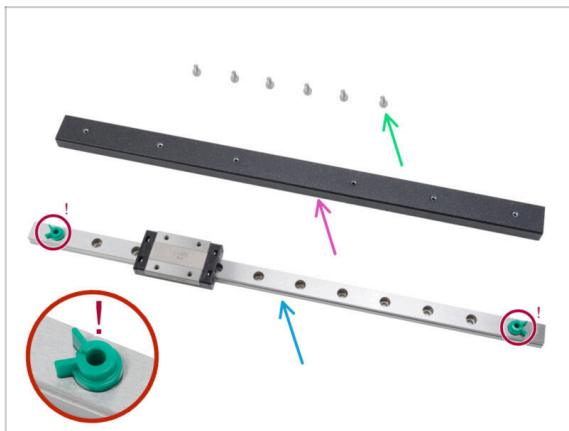
- ◆ Turn the CoreXY assembly upside down so that the bent parts face downward. Focus on the front left corner on the assembly.
- ◆ Place the belt-tensioner-**left** assembly in the front left corner of the CoreXY plate. Align it with the front and inner side edges.
- ◆ Line up the holes in both parts.
- ◆ Secure the part with two M3x30 screws.
- ◆ Insert and tighten one M3x18 screw.

KROK 31 Installing the belt-tensioner-right



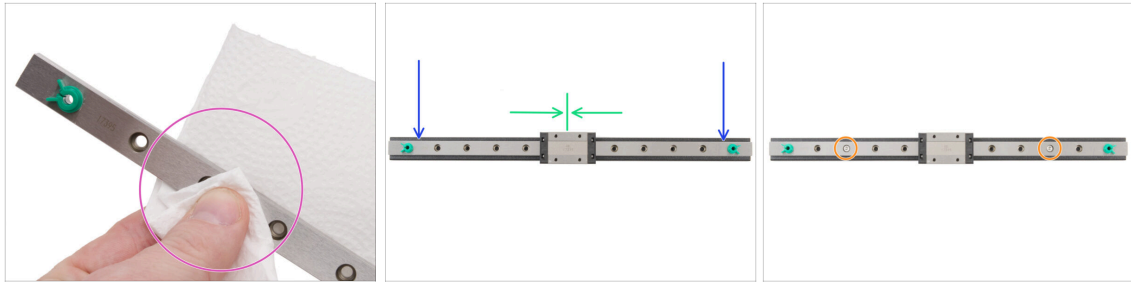
- Place the belt-tensioner-**right** assembly in the front right corner. Align it with the front and inner side edges.
- Line up the holes in both parts.
- Secure the part with three M3x30 screws.

KROK 32 Linear rail: parts preparation



- For the following steps, please prepare:
 - M3x6 screw (6x)
 - Linear rail beam (1x) *found in the Metal parts 3/3 package*
 - Linear rail (1x) *found in the Electronics & Chamber parts package*
- ⚠ **Under no circumstances remove the green anti-ejection safety pins.** Wait for the prompt in the instructions.
- Piece of cloth or a paper towels to wipe the preservative lubricant from the linear guide.

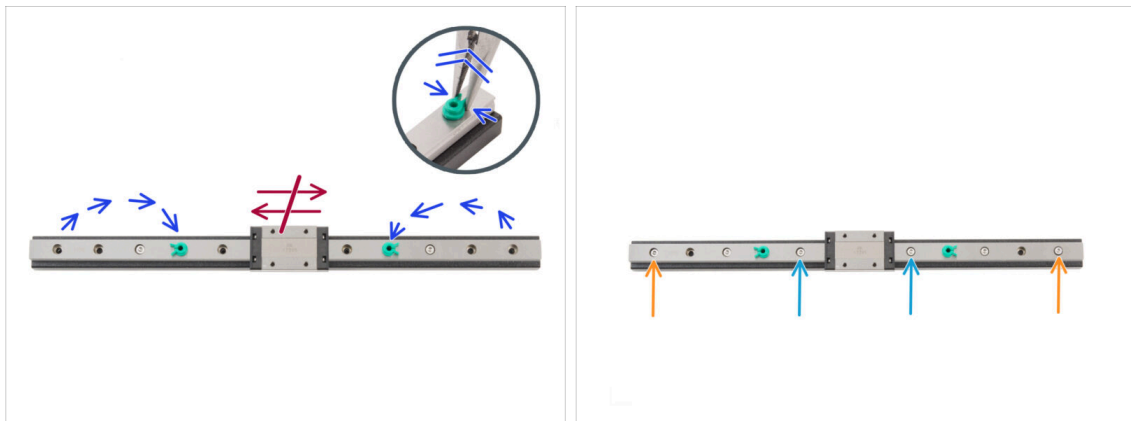
KROK 33 Attaching the linear rail



⚠ Under no circumstances remove the green anti-ejection safety pins. Wait for the prompt in the instructions.

- ✎ Immediately after removing the linear guide from the package, wipe off the preservative lubricant with a paper towel.
- ⬢ Attach the linear rail on the linear rail beam and line up the holes in both parts.
- ⬢ Insert and slightly tighten two M3x6 screws into the third holes from both ends.
- ⬢ Move the linear carriage approximately to the center of the rail.

KROK 34 Securing the linear rail

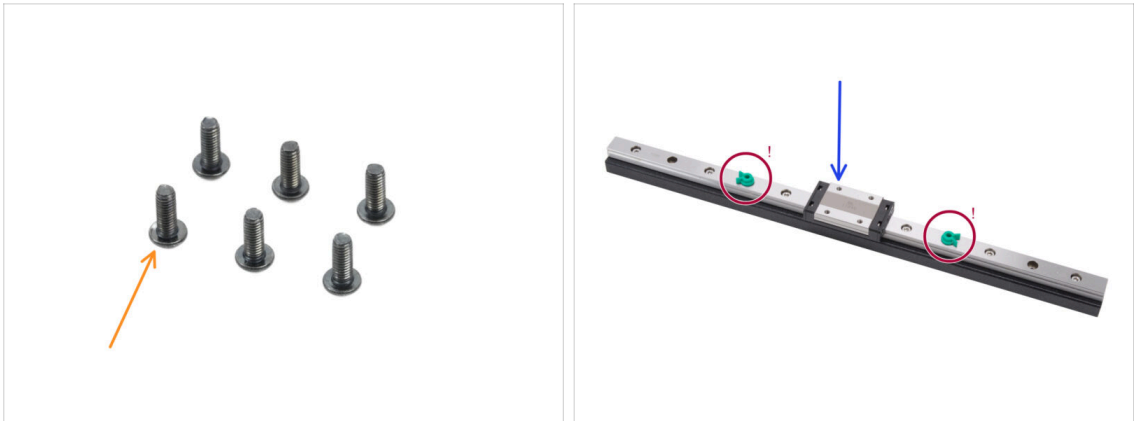


⚠ Do not move the linear carriage in any way in this step.

- ⬢ Relocate the safety pins from each end to the fourth holes from the ends of the linear rail.
- ⬢ Gently squeeze the safety pin with needle-nose pliers and pull it out.
- ⬢ Insert two M3x6 screws into the fifth holes from the ends of the rail. **Tighten just slightly.**
- ⬢ Insert two M3x6 screws into the first holes in the rail. **Tighten just slightly.**

⚠ Do not remove the safety pins from the rail.

KROK 35 Montaż prowadnicy liniowej: przygotowanie części



For the following steps, please prepare:

M3x8rT screw (6x)

i There are both M3x8rT and M3x8 screws in the kit. Make sure you have prepared the correct ones.

Linear rail assembly (1x) *you assembled earlier*

! Do not remove the safety pins.

KROK 36 Montaż zespołu prowadnicy liniowej



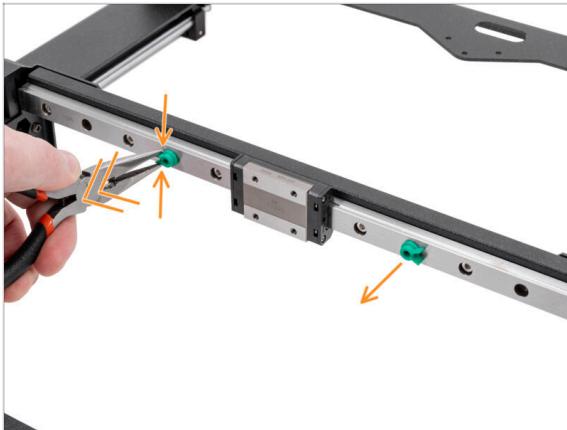
Position the assembly with the motor mounts facing you.

Move both linear holders approximately to the center of the Y-axis.

Attach the linear rail assembly to the holders from the front side of the assembly.

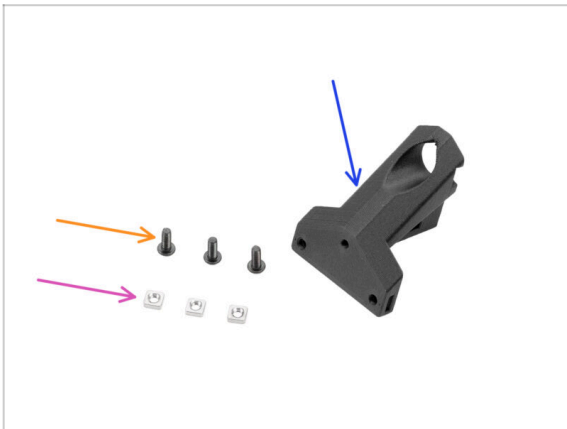
Secure it with three M3x8rT screws from the back side on both the left and right sides.

KROK 37 Prowadnica liniowa: demontaż kołków



- Gently squeeze both safety pins with needle-nose pliers and pull them out of the linear rail.
- i You can discard the safety pins as they are no longer needed.

KROK 38 Bed-stop: parts preparation



- **For the following steps, please prepare:**
- Bed-stop-rear [tylny ogranicznik stołu] (1x) *znajduje się w pakiecie Printed parts*
- M3nS nut (3x)
- M3x8rT screw (3x)

KROK 39 Assembling the bed-stop



- ✚ Insert two M3nS nuts into the bed-stop from one side.
- ✚ Wsuń jedną nakrętkę M3nS w tylny ogranicznik stołu [Bed-stop-rear] z drugiej strony.

KROK 40 Mounting the bed-stop



- ✚ Position the CoreXY assembly as shown, ensuring the motor mounts face upwards.
- ✚ Zwróć uwagę na trójkątny występ na płycie.
- ✚ Insert the bed-stop-rear **under** the protrusion at the back of the CoreXY plate.
- ✚ Align all three holes in both parts.
- ✚ Secure both parts together with three M3x8rT screws.
- ⓘ The upper screw is screwed into plastic with no pre-cut thread. It cuts the thread as it's tightened. Slight resistance is expected.

KROK 41 Silniki X i Y: przygotowanie części



● For the following steps, please prepare:

● Y-axis motor (1x)

● X-axis motor (1x)

ⓘ Note that the motors are marked as X and Y-axes in order to distinguish between them. We will continue to follow this marking.

● Pulley T16-2GT (2x)

● Assembly-multi-tool (1x) *you already used*

KROK 42 Montaż kółek pasowych osi X



⬛ Prepare the **X-axis** motor.

🟢 Zwróć uwagę na spłaszczenie wałka silnika.

⚠️ Slide the Pulley on, **note the CORRECT orientation.**

⬛ Rotate the motor shaft with the flat part facing you.

🟡 Using the fork on the Assembly-multi-tool set a gap between the pulley and the motor.

🟠 Push the pulley on the tool and firmly tighten the screw against the flat part on the shaft.

🟣 Rotate the pulley and firmly tighten the second grub screw.

⚠️ Double-check the pulley orientation. **The toothed side of the pulley must be on the motor side.**

KROK 43 Montaż kółek pasowych osi Y



- Prepare the **Y-axis** motor.

- Zwróć uwagę na spłaszczenie czopu wałka silnika. Obróć wałek silnika spłaszczeniem do siebie.

- ⚠ Slide the Pulley on, and **note the CORRECT orientation. The Y-axis pulley orientation is DIFFERENT from the X-axis.** Make sure the pulley teeth face away from the motor. Use the wider hook on the assembly tool.

- Using the hook on the Assembly-multi-tool, place the thicker curved part between the pulley and the motor.

- ⚠ **Do not try to hook it around the shaft.** Just rest the tool against the motor and make sure the hook tip slides between the motor and the pulley.

- Push the pulley on the tool and firmly tighten the screw against the flat part on the shaft.

- Rotate the pulley and firmly tighten the second grub screw.

- ⚠ Double-check the pulley orientation. The **teeth must face away from the motor.**

KROK 44 Paski XY: przygotowanie części



■ **For the following steps, please prepare:**

- Zespół silnika osi X (1x) zmontowany wcześniej
- Y-axis motor assembly (1x) you assembled earlier
- XY belt (2x) found in the CORE XY parts + hinges + HB set package
- Nextruder holder (1x) found in the CORE XY parts + hinges + HB set package
- M3x35 screw (8x)

KROK 45 XY belts INFO

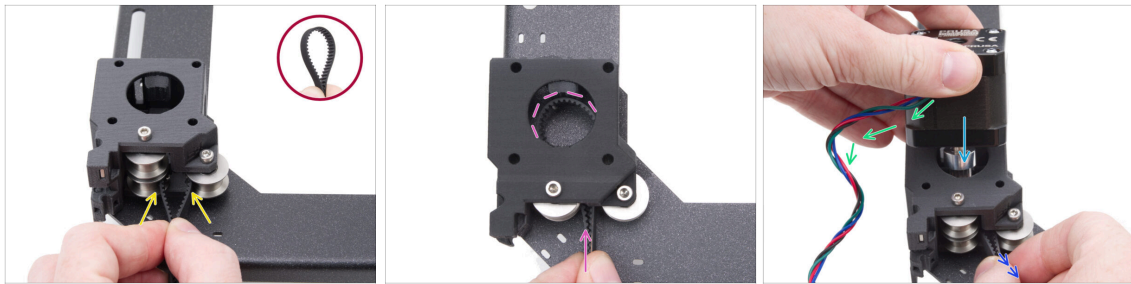


❗ The next steps cover belt installation and guiding on the core XY assembly. Before starting, refer to the illustration for an overview and better understanding of each belt's path.

- Pasek osi X - znajduje się **na górze**
- Y-axis belt - at the **bottom position**

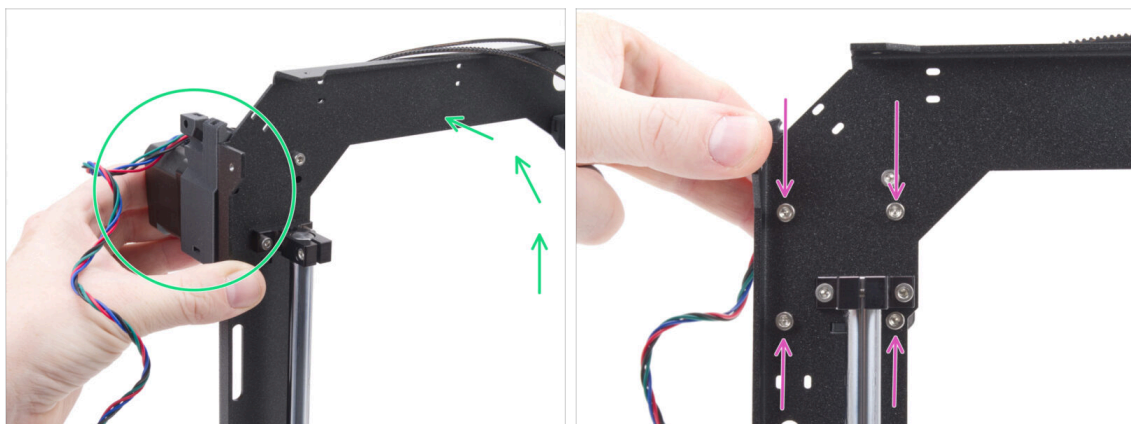
■ Let's guide the belts step by step...

KROK 46 Prowadzenie paska osi Y: kółko pasowe



- From the back of the CoreXY, focus on the motor-mount on the **left** side.
- Utwórz pętlę w dowolnym miejscu paska, tak aby **zęby były skierowane do wewnątrz** pętli.
- Push this loop through the space between the lower pulleys inside the motor mount.
- Push through enough to make the loop follow the top round hole of the motor-mount as closely as possible.
- Insert the **Y** motor into the motor holder, the pulley must be in the middle of the belt loop.
- Insert the Y motor pulley into the motor mount, ensuring the pulley is centered within the belt loop.
Fully attach the motor to the motor-mount with the motor cable facing you.
- Pull lightly on the belt loop to encircle the pulley.

KROK 47 Przymocowanie silnika osi Y



- Firmly grasp the Y-axis motor assembly and position the CoreXY assembly vertically. **Do not drop the motor!**
- ⚠ **Zachowaj ostrożność, aby nie wyciągnąć całego paska z silnika.**
- Keep holding the motor with one hand. With the other hand, secure the motor using four M3x35 screws on the underside of the frame. **Tighten firmly.**
- Place the CoreXY assembly back into the horizontal position.

KROK 48 Prowadzenie paska osi Y: mocowanie silnika Y



- 🟡 Guide the left end of the belt around the lower left pulley.
- 🟣 Przepchnij pasek przez część i poprowadź go do przodu płyty CoreXY.
- ⚠️ **Don't pull too long so you don't pull the whole belt out.** Remember that the other end is loose. The whole process would then have to be repeated.

KROK 49 Prowadzenie paska osi Y: napinacz



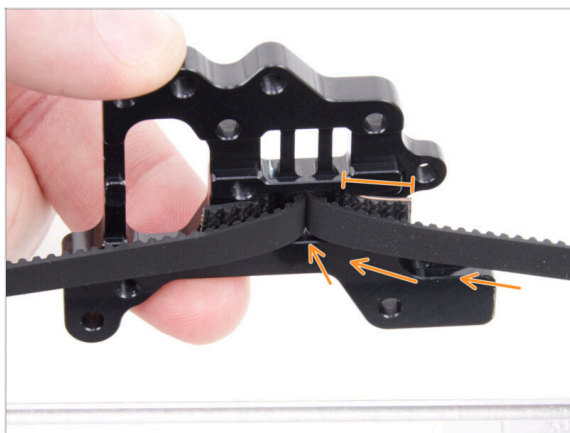
- 🟡 Guide the belt around the pulley in the belt tensioner.
- 🟣 Przepchnij pasek wokół przedniego koła pasowego w uchwycie liniowym.
- 🟢 Prepare the Nextruder holder in the same orientation as in the picture. Note the holes for securing the belts.
- 🔵 Push the end of the belt through the middle hole into the left hole in the bottom row - leave 4-5 teeth sticking out.
- 📄 The belt is secured on this end. You can leave it free for now.

KROK 50 Prowadzenie paska osi Y: mocowanie silnika X



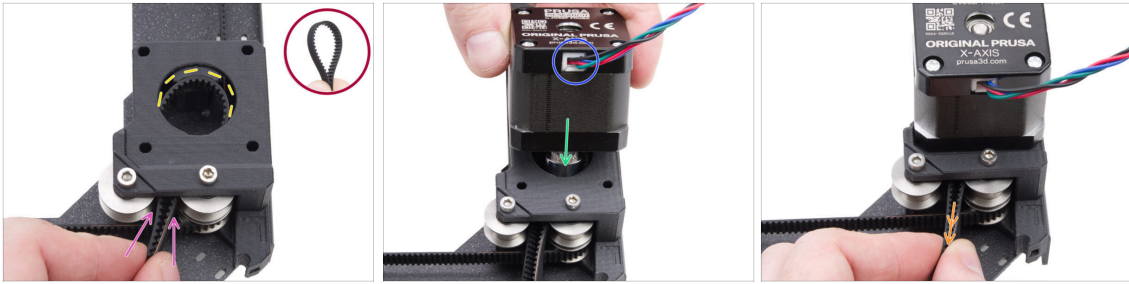
- Back to the other end of the Y belt.
- Weź drugi koniec paska i poprowadź go wokół dolnego koła pasowego w uchwycie silnika osi X.
- Push it through the motor mount to the front.
- Route the belt around the lower right pulley in the linear rail holder.

KROK 51 Prowadzenie paska osi Y: mocowanie



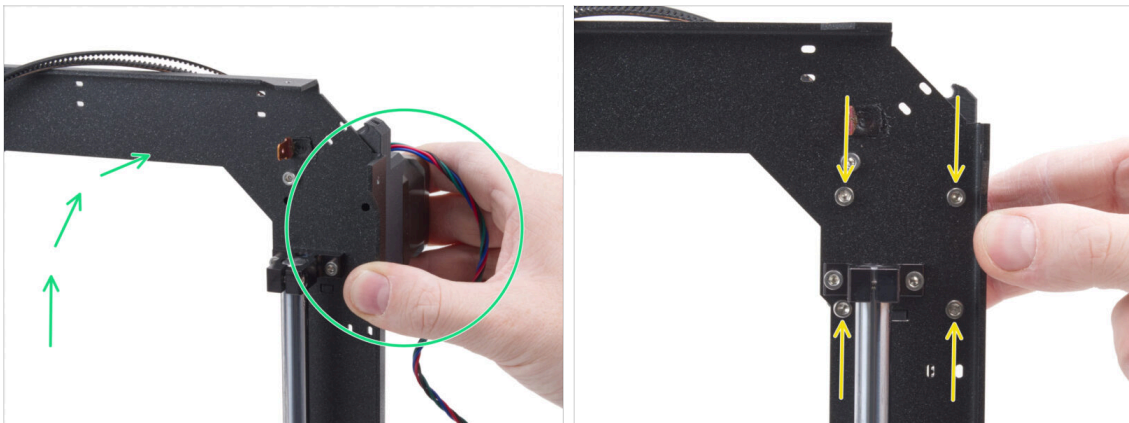
- Push the end of the belt through the middle hole to the right hole in the bottom row of the Nextruder holder - leave 4-5 teeth sticking out.
- ⓘ Jeśli masz trudności z dotarciem do mocowania Nextrudera przez pasek, możesz poluzować śrubę napinacza z przodu zespołu.
- 📌 Don't forget to adjust it back after securing the belt.

KROK 52 Prowadzenie paska osi X: kółko pasowe silnika X



- From the back of the CoreXY, focus on the motor-mount on the **right** side.
- Utwórz pętlę w dowolnym miejscu drugiego paska, tak aby zęby były skierowane do wewnątrz pętli.
- Push this loop through the space between the upper pulleys inside the motor mount.
- Push through enough to make the loop follow the top round hole of the motor-mount as closely as possible.
- Insert the **X** motor pulley into the motor mount, ensuring the pulley is centered within the belt loop.
- Ensure the motor cable is facing you (rear).
- Pull lightly on the belt loop to encircle the pulley.

KROK 53 Przymocowanie silnika osi X



- Firmly grasp the X-axis motor assembly and position the CoreXY assembly vertically. **Do not drop the motor!**
- ⚠ **Zachowaj ostrożność, aby nie wyciągnąć całego paska z silnika.**
- Keep holding the motor with one hand. With the other hand, secure the motor using four M3x35 screws on the underside of the frame. **Tighten firmly.**
- Place the CoreXY assembly back into the horizontal position.

KROK 54 Prowadzenie paska osi Y: mocowanie silnika X



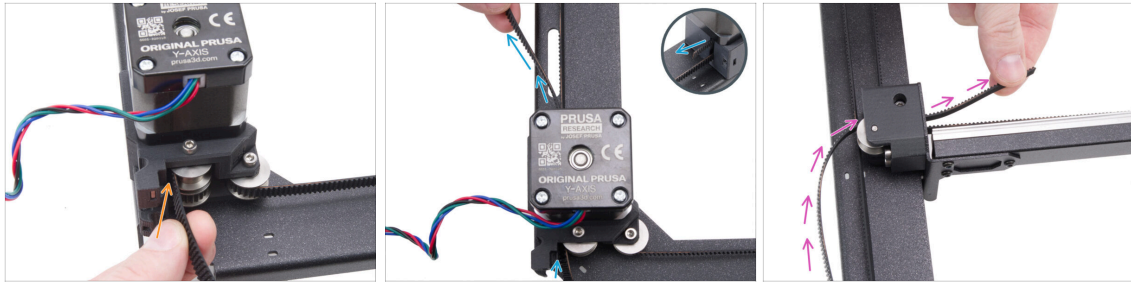
- Guide the right end of the belt around the upper right pulley.
- Przepchnij pasek przez część i poprowadź go do przodu płyty CoreXY.
- ⚠ **Don't pull too long so you don't pull the whole belt out.** Remember that the other end is loose. The whole process would then have to be repeated.

KROK 55 Prowadzenie paska osi X: napinacz



- Guide the belt around the pulley in the belt tensioner.
- Przepchnij pasek wokół przedniego górnego koła pasowego w uchwycie liniowym.
- Route the end of the belt through the middle hole into the right hole - leave 4-5 teeth sticking out.
- ⓘ The belt is secured on this end. You can leave it free for now.

KROK 56 Prowadzenie paska osi X: mocowanie silnika Y



- ✶ Weź drugi koniec paska i poprowadź go wokół górnego koła pasowego w uchwycie silnika osi Y.
- ✶ Push the belt through the motor mount.
- ✶ Route the belt around the upper front pulley in the linear rail holder.

KROK 57 Prowadzenie paska osi X: mocowanie



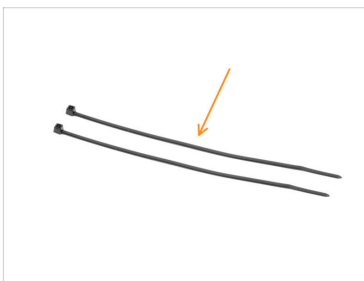
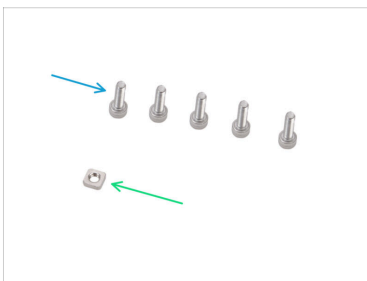
- ✶ Push the end of the belt through the middle hole to the left hole in the upper row of the Extruder holder - leave 4-5 teeth sticking out.

KROK 58 Weryfikacja prowadzenia paska



Before proceeding, recheck the belt routing according to the illustration.

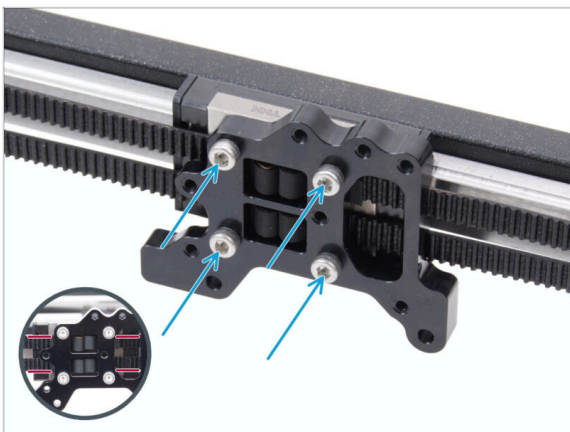
KROK 59 Prowadnica Bowdena: przygotowanie części



● For the following steps, please prepare:

- Bowden-guide [Prowadnica Bowdena] (1x) *znajduje się w pakiecie Printed parts*
- M3x10 screw (5x)
- M3nS nut (1x)
- Zip tie (2x)

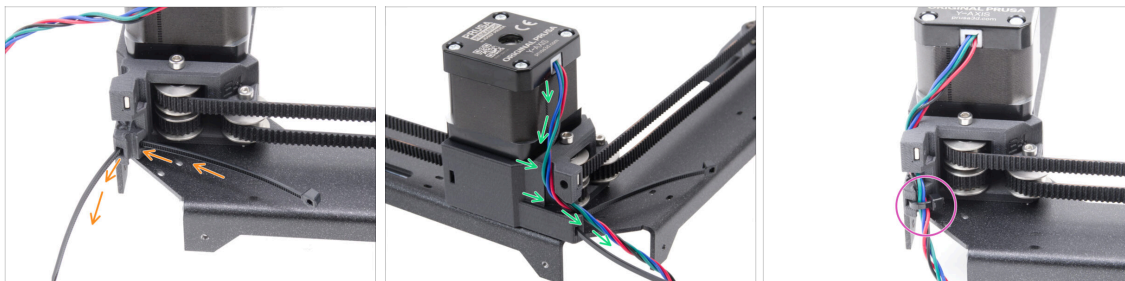
KROK 60 Montaż uchwytu Nextrudera



- Attach the Nextruder holder to the linear rail carriage and secure it using four M3x10 screws.

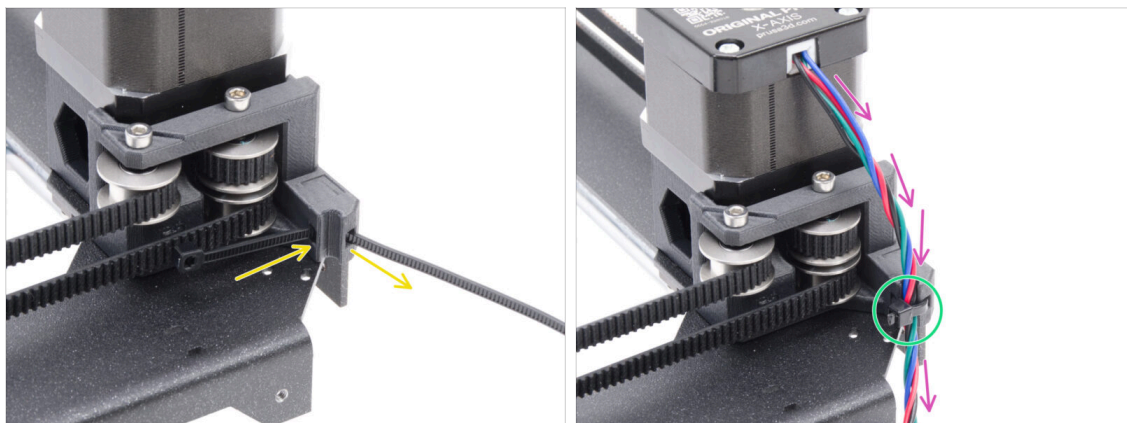
UWAGA: Upewnij się, że żaden pasek nie przebiega pod żadną śrubą. Nie dopuść do wkręcenia śruby przez pasek!

KROK 61 Przymocowanie przewodu silnika Y



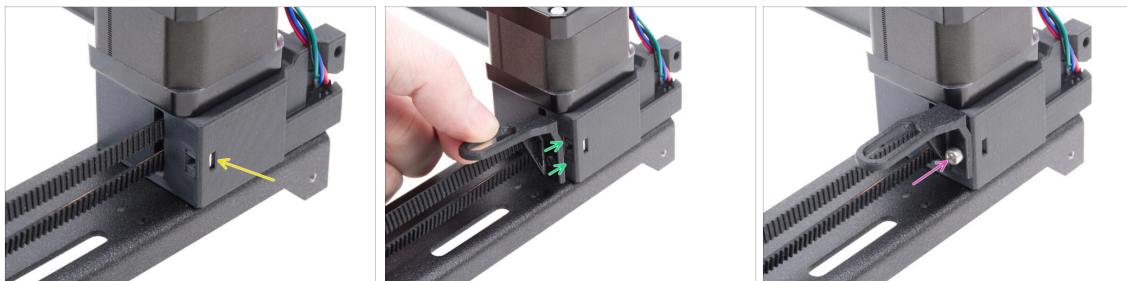
- Push the zip tie through the motor-mount-right (Y-axis motor).
- Poprowadź przewód silnika osi Y przez kanał kablowy w prawym mocowaniu silnika i przez opaskę zaciskową.
- Secure the cable with a zip tie and trim the excess.

KROK 62 Przymocowanie przewodu silnika X



- ✚ Push the zip tie through the motor-mount-left (X-axis motor).
- ✚ Poprowadź przewód silnika osi X przez kanał kablowy w prawym mocowaniu silnika i przez opaskę zaciskową.
- ✚ Secure the cable with a zip tie and trim the excess.

KROK 63 Montaż prowadnicy Bowdena



- ✚ Insert the M3nS nut into the motor-mount-right (Y-axis motor).
- ✚ Przymocuj prowadnicę Bowdena [bowden-guide] do prawego mocowania silnika [motor-mount-right].
- ⚠ Note the correct orientation of the part.
- ✚ Fix the bowden-guide in place using the M3x10 screw.

KROK 64 White LED strip: parts preparation



● For the following steps, please prepare:

● Taśma LED (white) (1x) *znajduje się w pakiecie Electronics & Fasteners*

● CoreXY strut (1x) *found in the Metal parts 1/3 package*

ⓘ The part is inserted in a foam cutout and may not be immediately visible at first glance.

● M3x4rT screw (2x)

KROK 65 Sticking the White LED strip



● Carefully peel off the protective (paper) layer from the White LED strip.

⚠ Po odklejeniu warstwy ochronnej, taśma LED jest samoprzylepna.

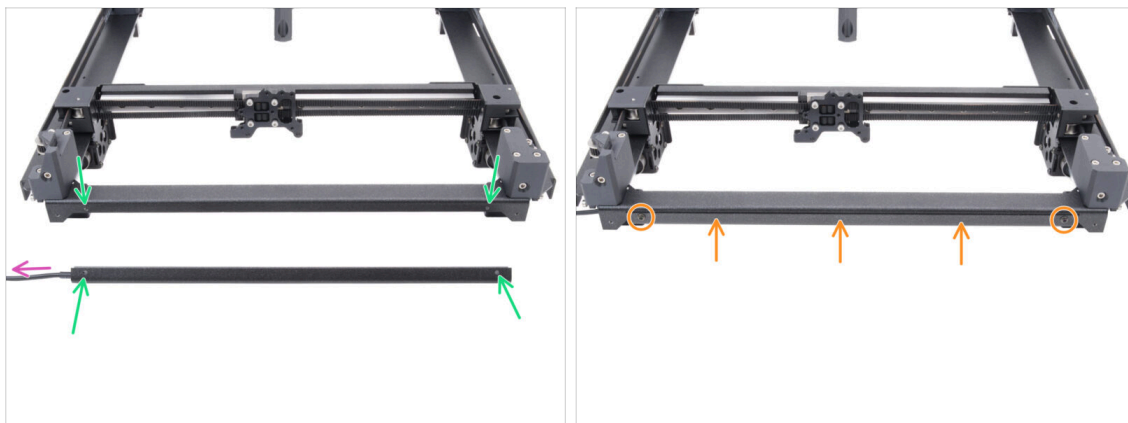
● Position the White LED strip near the CoreXY strut to check alignment, but **do not attach it yet**.

⚠ Note the rectangular cutout on the strut, orient the strip cable to the same side.

● Stick the White LED strip evenly to the strut - on the side with the rectangular cutout.

● After sticking, press lightly on the blank areas of the strip to ensure adhesion. **Do not touch LEDs and resistors!**

KROK 66 Installing the white LED assembly



- Take the white LED assembly and attach it to the front of the CoreXY assembly. Align the holes of both parts.
- **Przewód białej taśmy LED musi być skierowany w lewo.**
- Attach the LED assembly to the CoreXY plate and secure it with two M3x4rT screws.

KROK 67 Door sensor & White LED strip: parts preparation



- **For the following steps, please prepare:**
- Czujnik drzwi (1x) znajduje się w pakiecie CORE XY parts + hinges + HB set
- M2.5x10 screw (1x) silver
- Zip tie (4x)

KROK 68 Inserting the zip ties



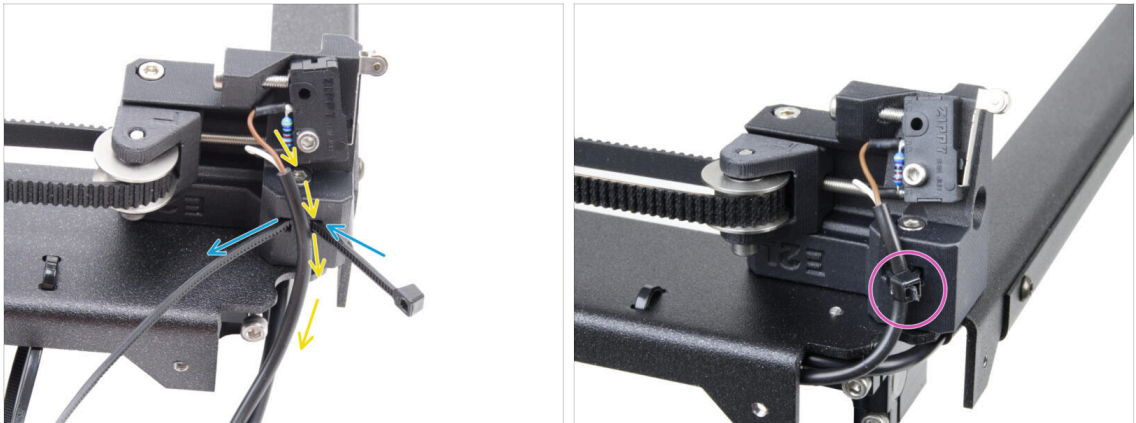
- ◆ Flip the CoreXY assembly upside down and rest it on the motors.
- ◆ Ustaw go tak, aby przewód białej taśmy LED był skierowany w Twoją stronę.
- ◆ Thread three zip ties through the CoreXY plate, ensuring the zip tie heads point inward.
- ◆ Partially tighten the zip ties—just enough to catch the first few teeth.
- ⚠ **Do not fully secure them yet, as we will route cables through them later.**
- ◆ Flip the assembly back with the motors facing upwards.

KROK 69 Installing the door sensor



- ◆ Place the door sensor on the left belt tensioner. The lever of the door sensor must face forward.
- ◆ Przymocuj czujnik drzwi śrubą M2,5x10.
- ◆ Tighten the bolt fully and then loosen 1/4 turn. The sensor must be allowed to move.
- ◆ From the rear of the belt tensioner, tighten the M3x12 screw so that it touches the door sensor.

KROK 70 Securing the door sensor cable



- ◆ Push the zip tie through the hole in the left belt tensioner.
- ◆ Przeprowadź przewód czujnika drzwi przez opaskę zaciskową.
- ◆ Tighten the zip tie to secure the door sensor cable. Cut off the excess.

KROK 71 Guiding the cables: LED and door sensor



- ◆ Prepare a cardboard box. You can use any box from the kit. *The box used in the picture is for illustrative purposes only.*
- ◆ Odwróć zespół CoreXY do góry nogami, aby pręty liniowe znalazły się na górze.
- ◆ Slightly lift and support the front side of the CoreXY assembly with the cardboard box.
- ⚠ **Be careful not to damage the door sensor.**
- ◆ Route the white LED strip cable and the door sensor cable through the zip ties.
- ◆ Tighten all the zip ties to secure the cables. Cut off the excess zip ties.
- ◆ **Cables must be slightly taut and straight.** Excess slack or bends may cause collisions with the Y-axis and lead to damage.

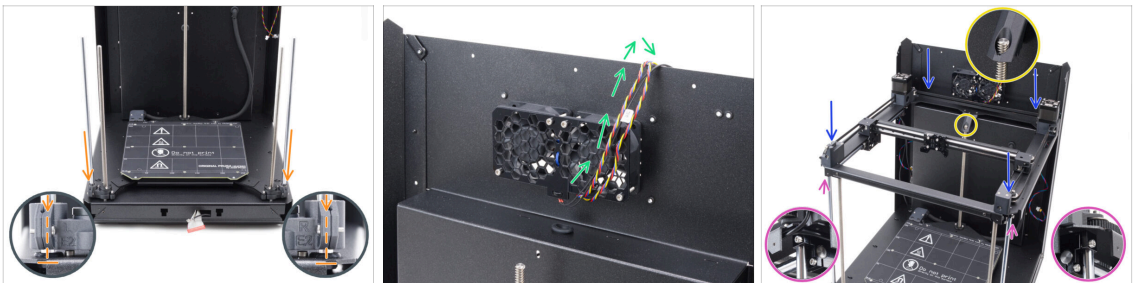
KROK 72 Smooth rods: parts preparation



For the following steps, please prepare:

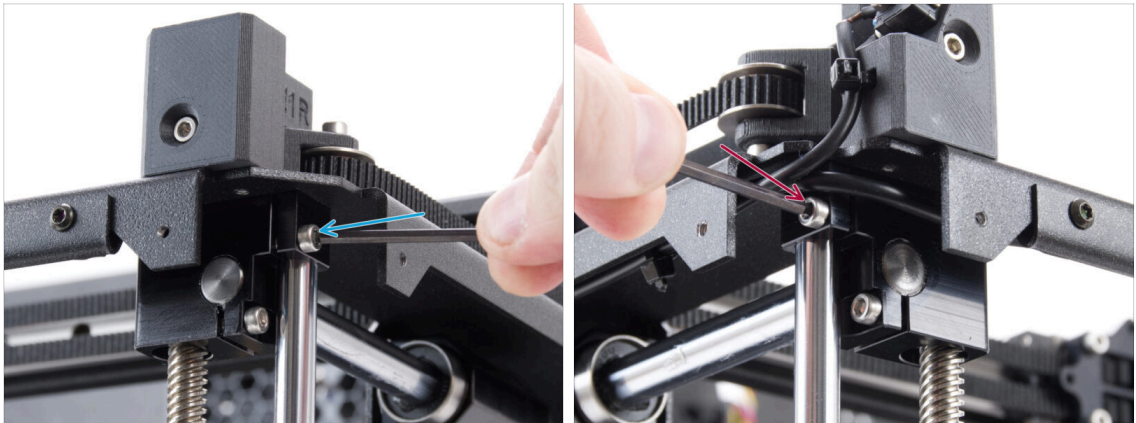
- Pręt liniowy 8x330 mm (2x) *pierwotnie z osi Y*
- M3x8rT screw (1x)

KROK 73 Installing the CoreXY assembly



- Carefully insert both smooth rods through the heatbed assembly bearings and into the rod mount part in the base assembly.
- Wymagane jest bardzo powolne wsuwanie gładkich prętów w łożyska, aby zapobiec wypchnięciu z niego kulek.**
- Temporarily hang the cables from the cooling fans over the rear panel. **There must be a space between the cables and the back panel pocket.**
- Exercise extreme caution when placing the assembly on the smooth rods and back panel assembly.
- Ensure that no cables are pinched.**
- Ensure both smooth rods are properly seated in the rod holders.
- The threaded rod of the rear Z motor must pass through the bed-stop-rear part.
- WARNING: When handling the printer, DO NOT lift it by the CoreXY assembly. Always lift it by the base of the entire assembly.**

KROK 74 Securing the smooth rods

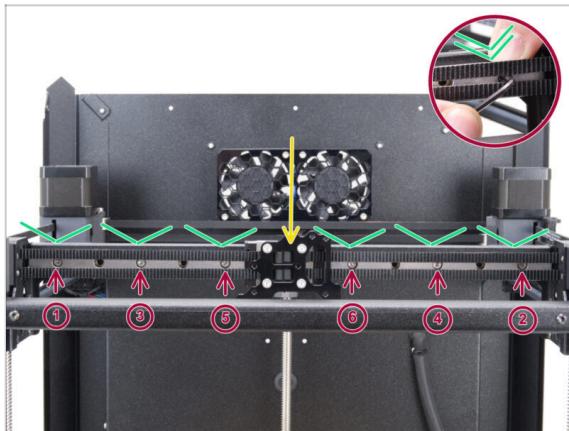


⚠ Check that both smooth rods are seated correctly in the holders.

🔵 Mocno dokręć śrubę M3x10 z prawej strony, aby zamocować pręt liniowy.

🔴 Firmly tighten the left M3x10 screw to secure the smooth rod.

KROK 75 Aligning the linear rail

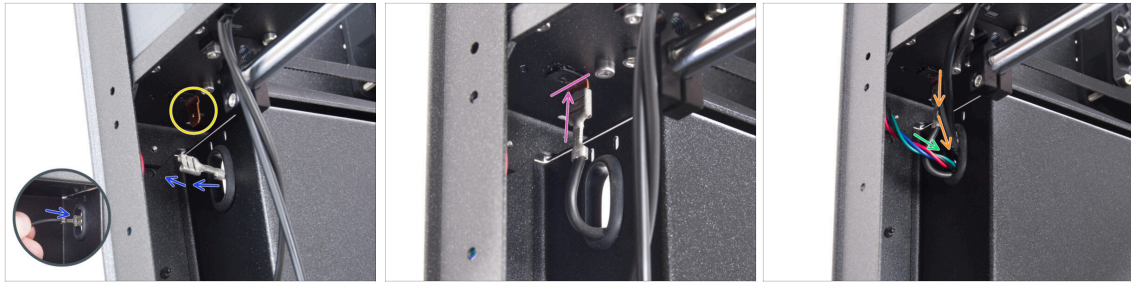


🟡 Move the linear rail carriage to the center.

⚠ **Mocno dokręć wszystkie śruby w kolejności pokazanej na ilustracji.**

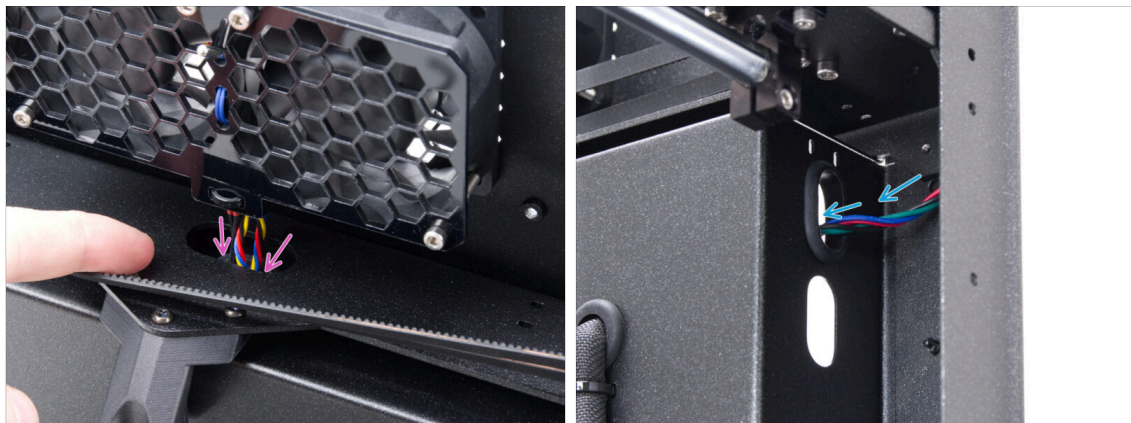
🟢 Push the linear rail down while tightening.

KROK 76 Guiding the corexy cables



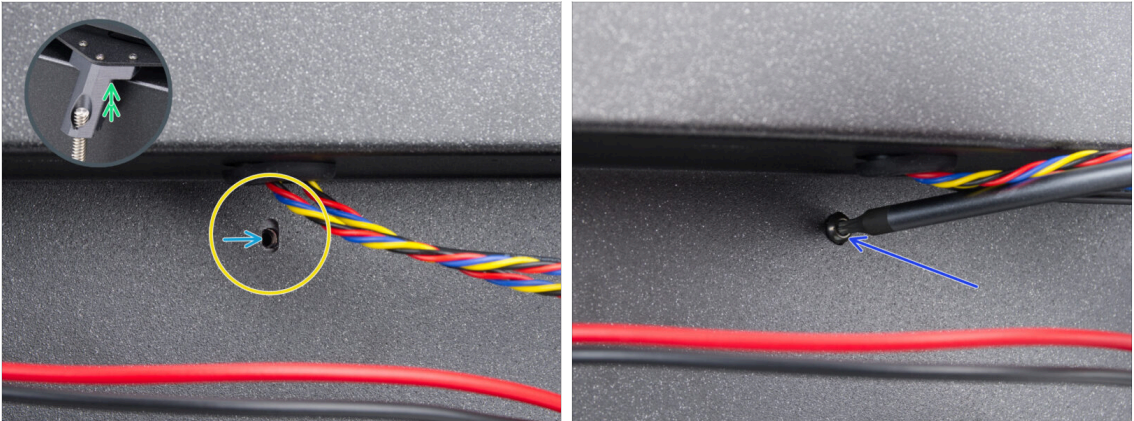
- From the back of the printer, push the FE connector through the oval hole.
- Zlokalizuj złącze przewodu PE (numer 5) w lewym tylnym rogu - pod zespołem CoreXY.
- Plug the FE connector onto the Faston on the underside of the CoreXY plate.
- On the same side, push the X motor cable through the oval hole in the back panel.
- Push the White LED strip and Door sensor cables through the oval hole in the back panel.

KROK 77 Guiding the cooling fan cables



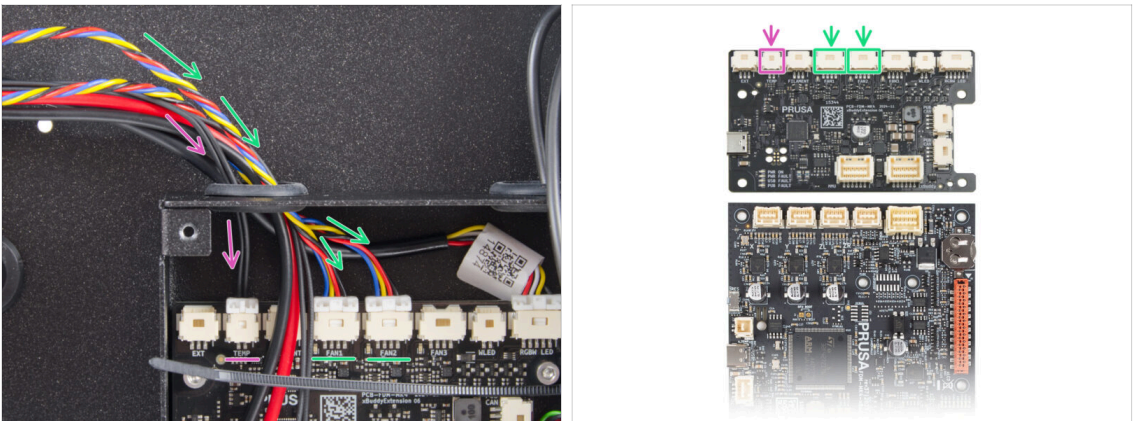
- Push the cooling fan and thermistor cables through the oval hole in the back panel.
- Zlokalizuj przewód silnika Y w prawym tylnym rogu i przełoż go przez górny owalny otwór w tylnym panelu.

KROK 78 Fixing the bed-stop



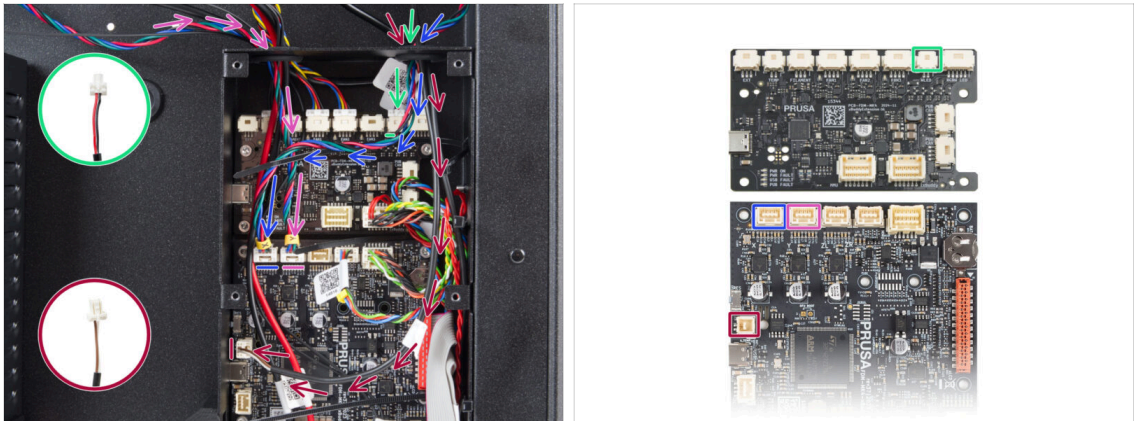
- ✦ From the back side, locate the oval screw hole under the cooling fans.
- ✦ Owalny otwór musi znajdować się w jednej płaszczyźnie z otworem w ograniczniku stołu po przeciwnej stronie.
- ✦ To compensate, slightly raise the rear of the CoreXY assembly - just a few millimeters.
- ✦ After aligning the holes, secure them with an M3x8rT screw.

KROK 79 Connecting the cooling fans cables



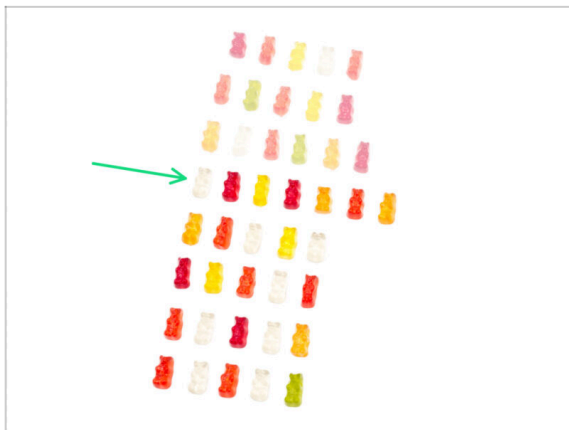
- ✦ Route the cooling fan cables through the left hole in the xBuddy box and plug them into the fourth and fifth slots on the xBuddy extension board labeled FAN 1 and FAN 2.
- ① Kolejność podłączenia nie ma znaczenia - oba przewody są takie same.
- ✦ Guide the chamber thermistor cable together with the cooling fan cables.
- ✦ Connect it to the second slot from the left on the xBuddy extension board labeled TEMP.

KROK 80 Connecting the corexy cables



- Guide the X motor cable through the right hole in the xBuddy box. Connect it to the first slot from the left on the xBuddy board.
- Poprowadź przewód czujnika drzwi przez otwór po prawej stronie obudowy xBuddy. Podłącz go do dolnego gniazda po lewej stronie płyty xBuddy.
- Guide the white LED strip cable through the right hole in the xBuddy box. Connect it to the second slot from the right on the xBuddy extension board.
- Guide the Y motor cable through the left hole in the xBuddy box. Connect it to the second slot from the left on the xBuddy board.

KROK 81 Haribo time



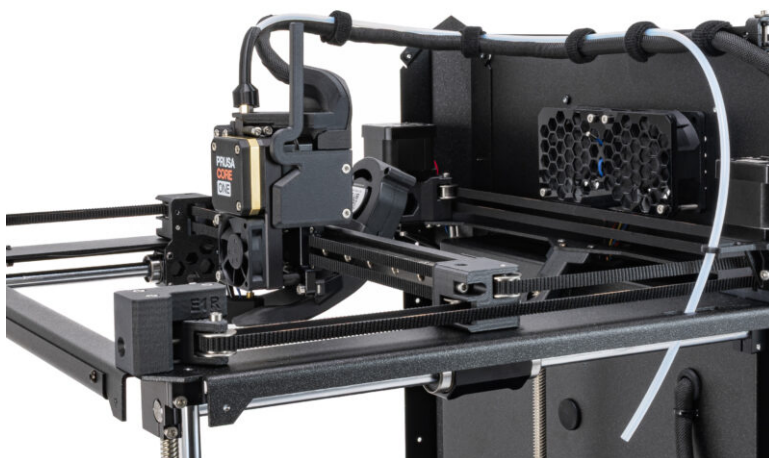
- Think it's snack o'clock again.
- Zaslugujesz na zjedzenie całej torby, ale zachowaj... Zjedz tylko czwarty rząd.

KROK 82 Gotowe

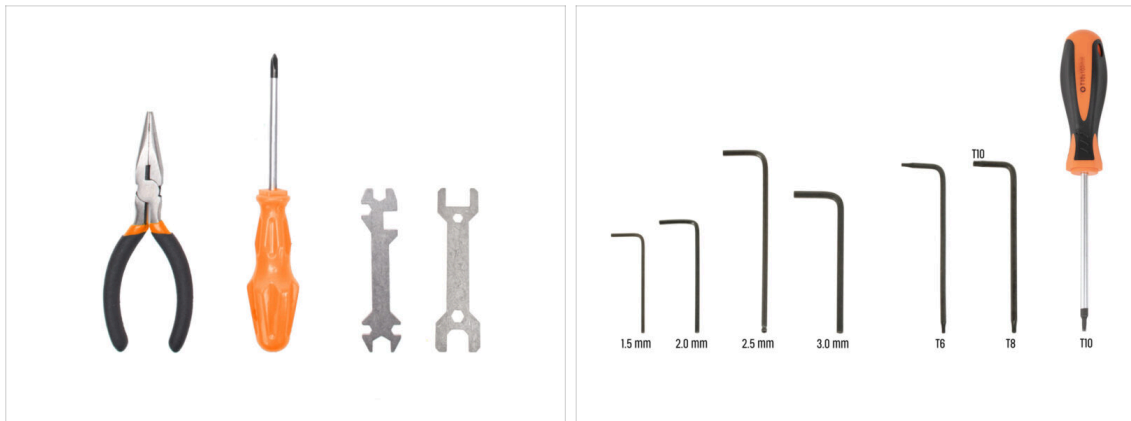


- ◆ Congratulations! You have just assembled and installed the CoreXY assembly.
- ◆ Przejdźmy do kolejnego rozdziału.

6. Montaż Nextrudera



KROK 1 Tool necessary for this chapter



● **For this chapter, please prepare:**

- Klucz uniwersalny
- 1.5mm Allen key
- 2.5mm Allen key
- T6 torx key
- T10 torx key / T10 torx screwdriver

KROK 2 Nextruder idler assembly: parts preparation



● **For the following steps, please prepare:**

- Idler-lever-a (1x) *found in the Electronics package*
- Idler-lever-b (1x) *found in the Electronics package*
- Bearing 693 2RS (2x) *found in the Electronics package*
- Sworzeń 2,9x8,5 (2x) *znajdują się w pakiecie Electronics*
- M3x6 screw (1x)
- Tubular spacer 13.2x3.8x0.35 (1x) *found in the Electronics package*

KROK 3 Assembling the extruder idler



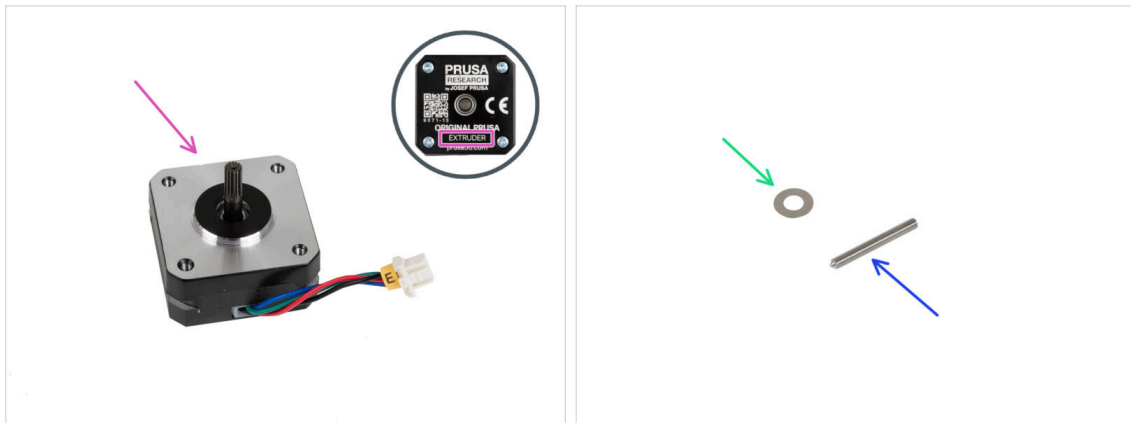
- Place both bearings into the Idler-lever-a.
- Insert the pin 2.9x8.5 into each bearing 693 2RS, as seen in the picture.
- Close it up with the Idler-lever-b part and secure it with the M3x6 screw. **Do not overtighten the screw.** Both bearings must be able to rotate without significant resistance.
- From the same side, push the tubular spacer into the assembly. The "bottom" of the tubular spacer must be flush with the bottom part of the Idler assembly.

KROK 4 Assembling the extruder: parts preparation I.



- **For the following steps, please prepare:**
- PG-assembly (1x) *found in the Electronics package*
- Heatsink assembly (1x) *found in the Electronics package*
- Main-plate (1x) *found in the Electronics package*
- PG-ring [pierścień przekładni] (1x) *znajduje się w pakiecie Electronics*
- PG-assembly-adapter (1x) *found in the Electronics package*
- ① The list continues in the next step...

KROK 5 Assembling the extruder: parts preparation II.



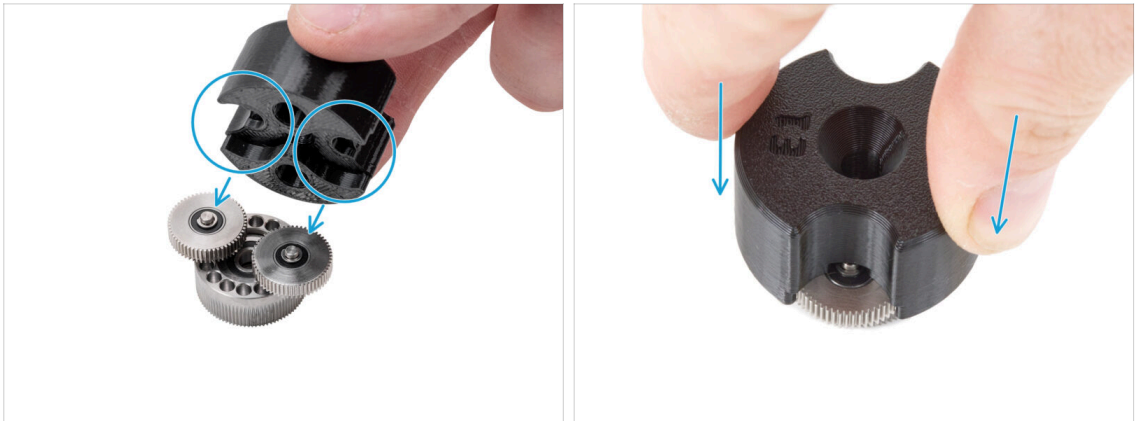
- ◆ Extruder motor (1x) *found in the Motors package*
- ◆ Spacer 5x10x0.1 mm (1x) *found in the Electronics package*
- ◆ Socket set screw M3x25 (1x) *found in the Electronics & Fasteners package*

KROK 6 Assembling the extruder



- ◆ Place the 5x10x0.1 spacer over the shaft on the extruder motor.
 - ◆ Place the heatsink on the extruder motor. Note the orientation of both parts.
 - ◆ The motor cable must be facing "up".
 - ◆ The heatsink cables must be on the right side.
 - ◆ Umieść przekładkę [main-plate] na radiatorze. Zwróć uwagę na orientację części. Użyj wycięcia jako odniesienia.
- ⚠ **Before proceeding to the next step, make sure that the 5x10x0.1 spacer is placed on the extruder motor.**

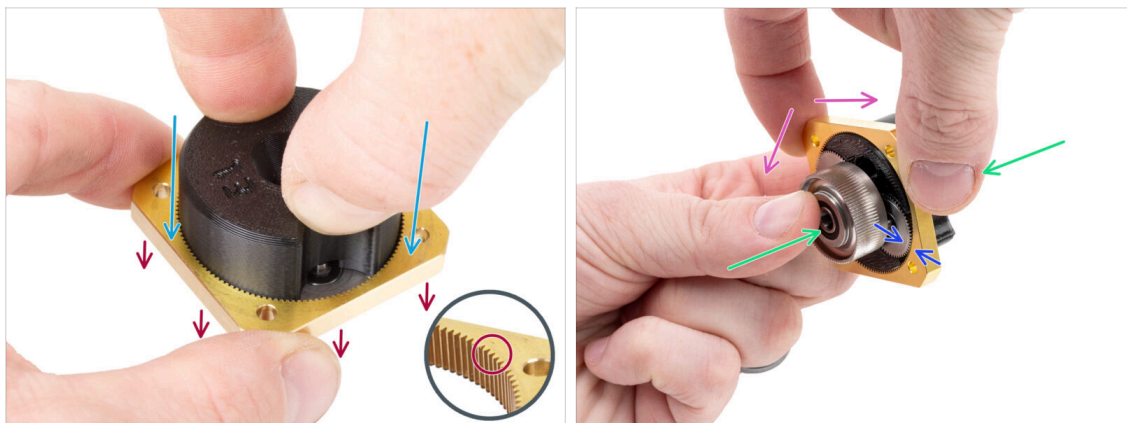
KROK 7 Assembling the gearbox



❗ **The following instructions need to be done correctly and carefully.** Achieve better understanding and successful assembly by watching the video alongside the guide: prusa.io/PG-assembly

- After watching the video, follow the steps in this guide.
- Attach the PG-assembly-adapter on the PG-assembly. Note the pockets for the gears in the adapter.

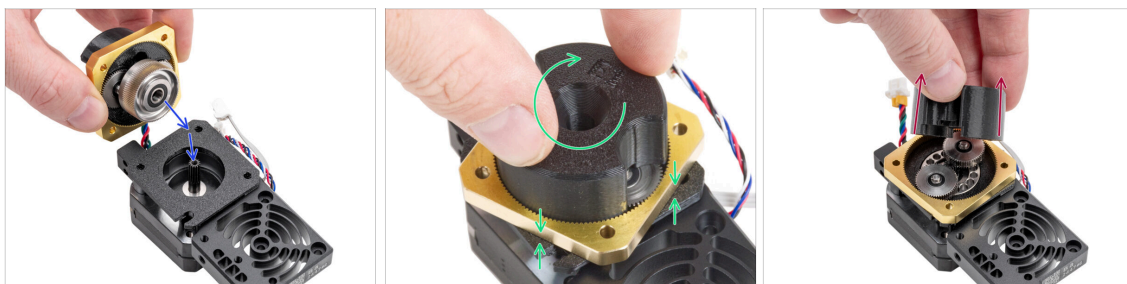
KROK 8 Assembling the PG-ring



⚠ Do not assemble the gearbox without the PG-assembly-adaptor. This tool is intended to ensure that the gears are correctly fit together.

- ➡ Slide the PG-ring onto the adaptor.
- ➡ Note there is a chamfer on one side of the PG-ring teeth. This side must be facing down (to the PG-assembly).
- ➡ Grasp the entire assembly in one hand so that it can be rotated with the PG-ring.
- ➡ Drugą ręką nasuń pierścień przekładni [PG-ring] na zespół [PG-assembly] ruchem kołyskowym (przesuwając pierścień przekładni [PG-ring] kilkukrotnie w lewo i w prawo). Wystarczy ćwierć obrotu.
- ➡ Stop when the surfaces of the gears are approximately flush with the surface of the PG ring.

KROK 9 Assembling the PG-assembly



⚠ Proceed very carefully in this step.

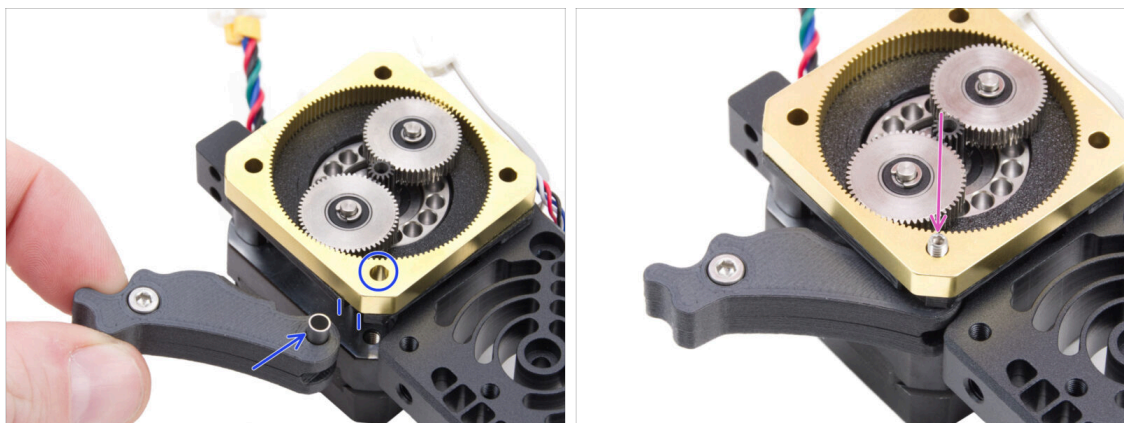
- ➡ Maintain the position of the PG-assembly and attach it on to extruder motor shaft.
- ➡ Very gently and freely rotate with the whole PG assembly (PG-assembly-adaptor, PG-assembly and PG-ring) until it drops down so that there is no gap between the assembly and the main-plate. **Do not push on the assembly.**
- ➡ Remove the PG-assembly-adaptor.

KROK 10 Checking the PG-assembly



- Attach the PG-assembly-adapter back on the PG-assembly again to verify that all parts are properly seated.
- Rotate with the PG-assembly-adapter. **The PG assembly must be easy to rotate without having to exert much force.**
- Remove the PG-adapter. You will no longer need it during assembly. We recommend keeping it for maintenance.
- Ensure that the PG-assembly is not sticking out above the PG-ring. It should be positioned lower than the level of the PG-ring's surface or at the same level as the ring.
- Upewnij się, że szczelina między pierścieniem przekładni [PG-ring] a przekładką główną [Main-plate] jest minimalna. Jeśli zauważasz większą szczelinę, zdemontuj zespół przekładni i ustaw go ponownie.

KROK 11 Assembling the Nextruder idler



- Insert the idler assembly between the PG-ring and the extruder motor. There is a cutout for the spacer in the main-plate. Line up the idler spacer with the hole in the PG-ring.
- Secure both parts with the socket set screw 3x25. **Do not overtighten the screw! The screw protrudes from the PG-ring after tightening.**

KROK 12 Gear lubrication: parts preparation



◆ For the following steps, please prepare:

◆ Front Case (1x) found in the Printed parts package

① The logo on the Nextruder front case will remain as **PRUSA CORE ONE**.

◆ M3x25 screw (3x)

◆ Smar (1x) znajduje się w pakiecie Electronics & Fasteners

◆ Several paper towels to wipe grease from your hands.

KROK 13 Lubricating the gear



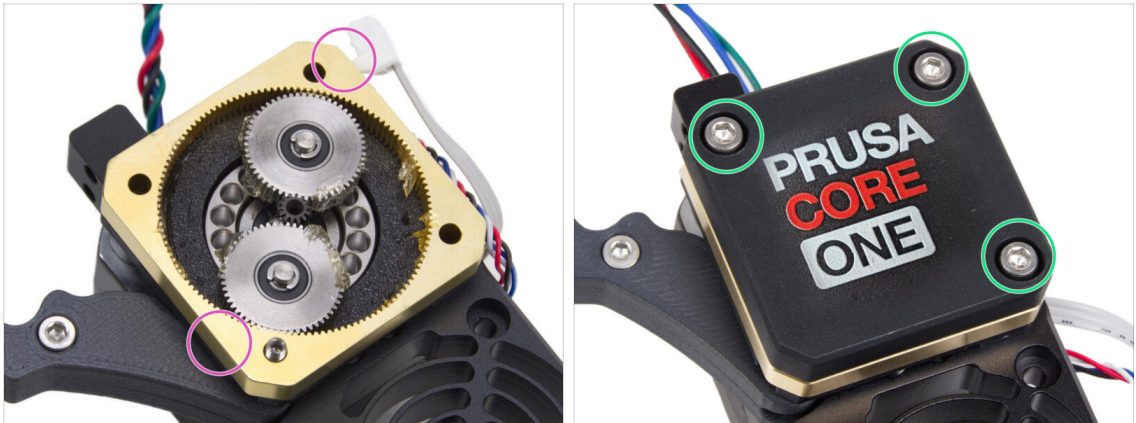
◆ Remove the cap from the lube. Use the spike on the opposite side of the cap to pierce a hole in the lube tube opening.

◆ Squeeze a small amount of lubricant onto the tip of the zip tie, then spread it over the gears.

◆ Apply a small amount of Prusa Lubricant **all around** the PG-ring and PG-assembly teeth.

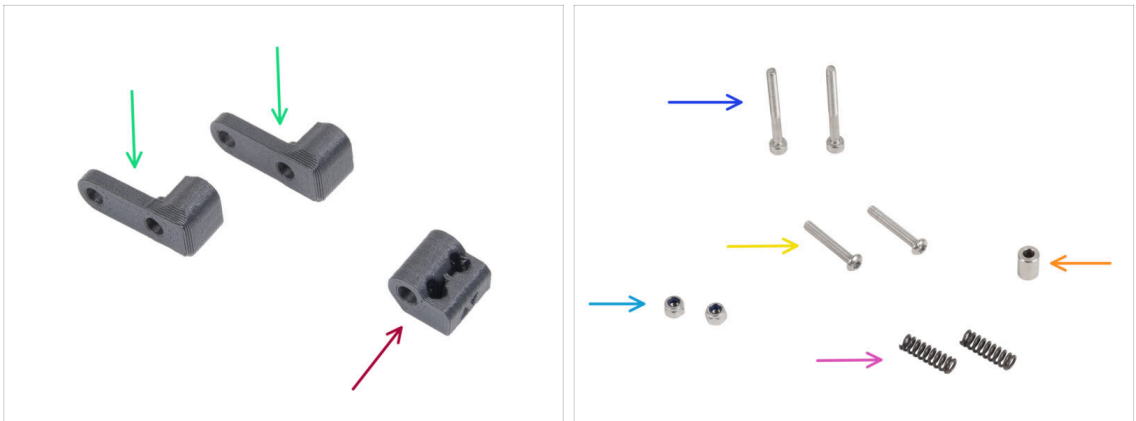
◆ Close the lubricant; it is no longer needed for the assembly.

KROK 14 Covering the planetary gear



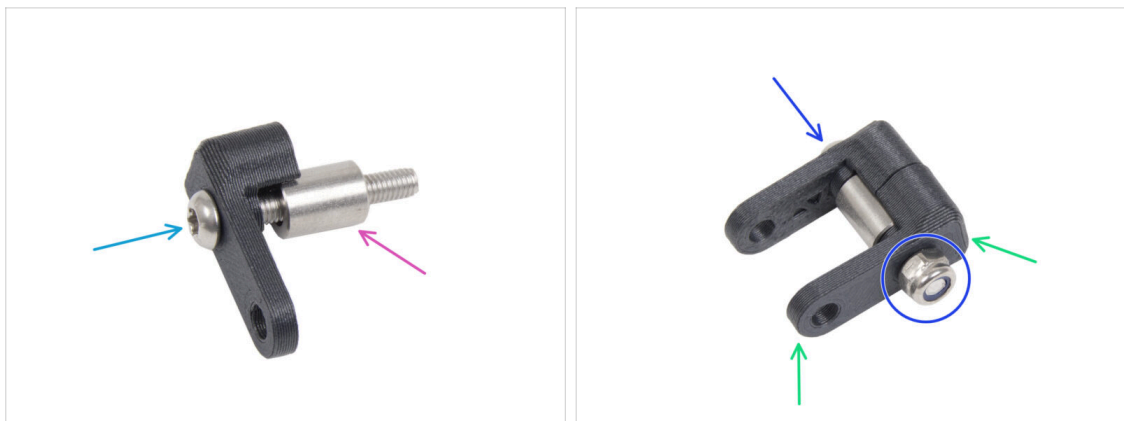
- Using the paper towel, wipe off the lubricant residue from the face surface of the PG-ring.
- Place the front case onto the gearbox and secure it with three M3x25 screws. **Do not tighten them completely** at this moment.
- i The screws on the front case will be completely tightened during the self-test in the final chapter.

KROK 15 Assembling the Idler-swivel: parts preparation



- **For the following steps, please prepare:**
- Idler-swivel (2x) *found in the Electronics package*
- Idler-nut (1x) *found in the Electronics package*
- M3x30 screw (2x)
- M3x20rT screw (2x)
- M3nN nut (2x)
- Spring 15x5 (2x) *found in the Electronics package*
- Spacer 6x3.1x8 (1x) *found in the Electronics package*

KROK 16 Assembling the Idler-swivel



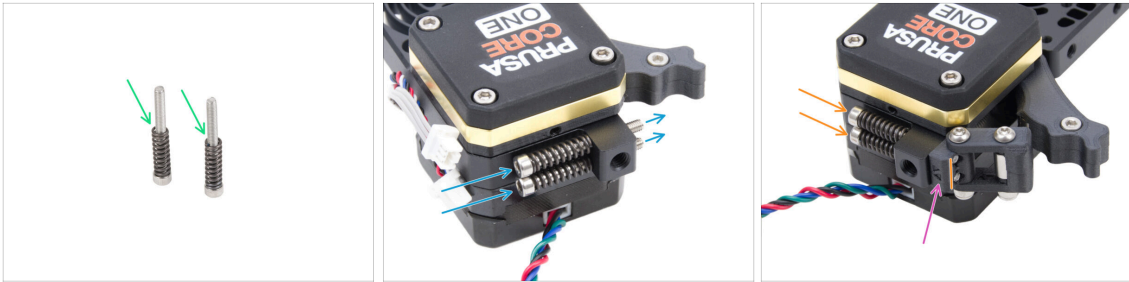
- Push the M3x20rT screw all the way through one of the idler-swivel.
- Slide the spacer onto the screw.
- Place the second idler-swivel from the opposite side on the screw.
- From the other side, attach the M3nN nut onto the screw. Hold the nut using the universal wrench and tighten the screw. **Tighten just lightly!** The spacer must rotate freely.

KROK 17 Assembling the Idler-nut



- Insert the Idler-nut into the Idler-swivel assembly. Make sure that both parts are oriented correctly according to the picture.
- Secure both parts together by inserting the M3x20rT screw from the same side, like the first screw.
- Secure the screw with M3nN nut. **Do not overtighten the nut.** It must be possible to move with the Idler-swivel on the Idler-nut.

KROK 18 Mounting the Idler-swivel assembly



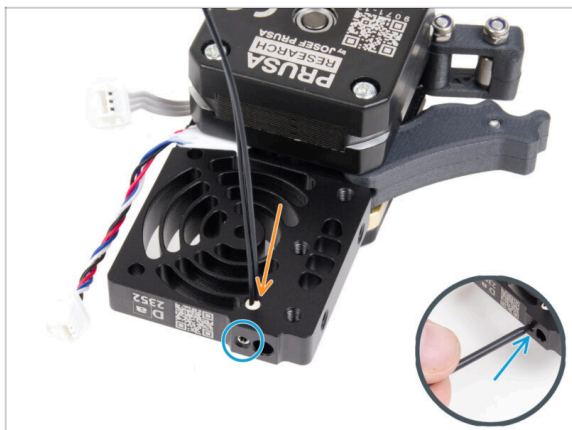
- Attach the spring 15x5 on both M3x30 screws.
- Push the two screws with the springs through the holes in the protrusion on the heatsink. There are no threads inside.
- Attach the Idler-swivel assembly on the screws. See the correct orientation of the Idler-nut. The side with version marking must be visible. See the picture.
- Tighten both screws. **Stop tightening as soon as the screw tips reach the front face of the idler nut.**

KROK 19 NTC thermistor: parts preparation



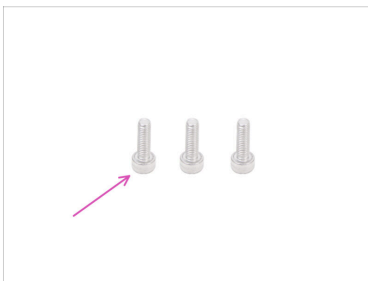
- **For the following steps, please prepare:**
- NTC thermistor 90 mm (1x) *found in the Electronics package*
- M3x4T grub screw (1x)

KROK 20 Assembling the NTC thermistor



- On the **extruder motor side**, insert the NTC thermistor into the hole in the heatsink.
- Secure it with the M3x4T grub screw. Screw it all the way in. **Tighten gently, but firmly** using two fingers and the short side of the T6 Torx key. Applying more force may cause permanent damage to the thread.

KROK 21 Mounting the Nextruder: parts preparation



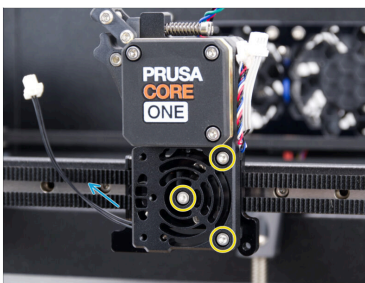
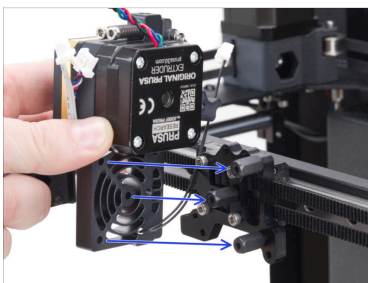
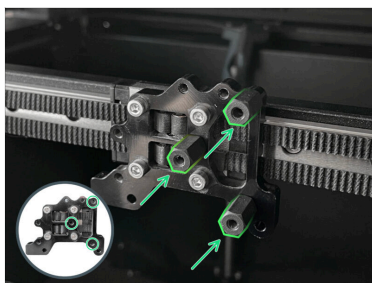
- **For the following steps, please prepare:**
- Nextruder spacer (3x) *found in the Electronics & Fasteners package*
- M3x10 screw (3x)
- Cardboard box (1x) *used as temporary heatbed protection*
- i Wskazówka: możesz użyć dowolnego kartonu z zestawu.

KROK 22 Protecting the heatbed



- Place an empty cardboard box on the heatbed, ensuring it covers as much of the surface as possible.
- i** This will protect the heatbed from falling parts.

KROK 23 Mounting the Nextruder



- Screw three Nextruder spacers to the Nextruder holder. Tighten the spacers firmly.
- Place the Nextruder assembly on the spacers.
- Align the holes in the Nextruder with the spacers and secure it with three M3x10 screws. **Do not overtighten the screws.**
- Ensure the NTC cable is pointing to the left.

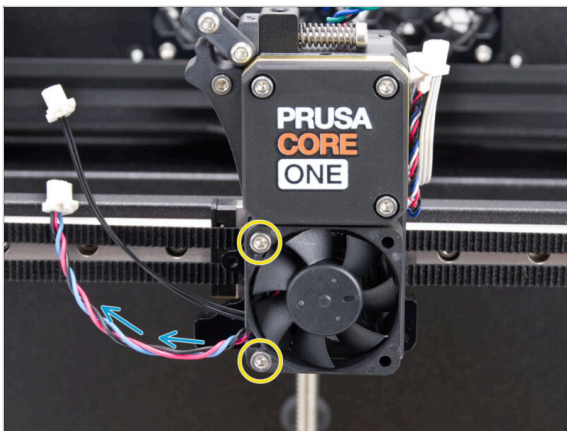
KROK 24 Hotend fan: parts preparation



For the following steps, please prepare:

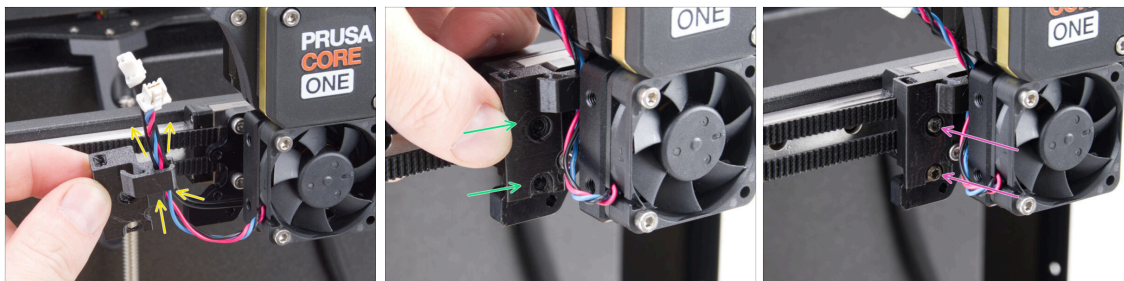
- Hotend fan (1x) *found in the Electronics package*
- Hotend-cable-clip (1x) *found in the Printed parts package*
- M3x4rT screw (2x)
- M3x18 screw (2x)

KROK 25 Installing the Hotend fan



- Attach the hotend fan onto the heatsink with two M3x18 screws on the left side. **Tighten the screw gently, but firmly, otherwise the plastic housing may crack.**
- ⚠ There is a sticker on the hotend fan, the sticker must be on the rear side of the fan - not visible.
- The cable must be pointing towards the lower-left corner.

KROK 26 Guiding the Hotend fan cables



- ✦ Take the Hotend-cable-clip in the same position as shown and guide the **heatsink fan cable** together with the **NTC thermistor cable** through the right cable hook.
- ✦ Attach the Hotend-cable-clip to the Nextruder holder.
- ✦ Secure it using two M3x4rT screws.

KROK 27 LoveBoard: parts preparation I.



✦ For the following steps, please prepare:

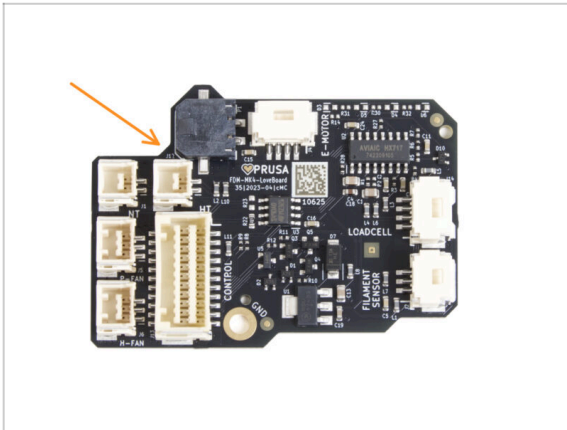
- ✦ Printhead-cover (1x) *found in the Printed parts package*
- ✦ Loveboard-mount (1x) *found in the Printed parts package*
- ✦ Main cable (1x) *found in the Electronics & Fasteners package*

ⓘ Uwaga: Kolory przewodów mogą się różnić w zależności od partii. Nie ma to wpływu na procedurę.

- ✦ M3x10 screw (4x)
- ✦ M3x8rT screw (1x)
- ✦ M3nS nut (5x)

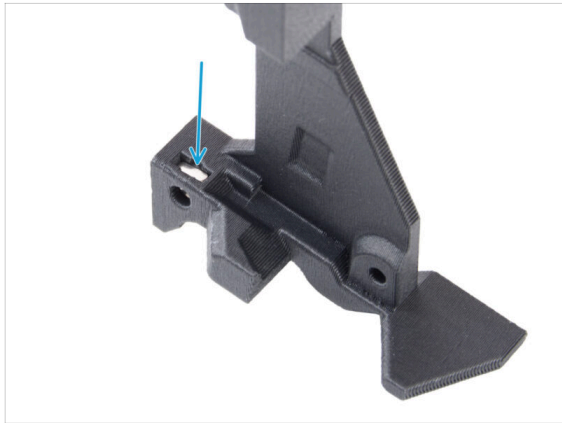
ⓘ The list continues in the next step...

KROK 28 LoveBoard: parts preparation II.



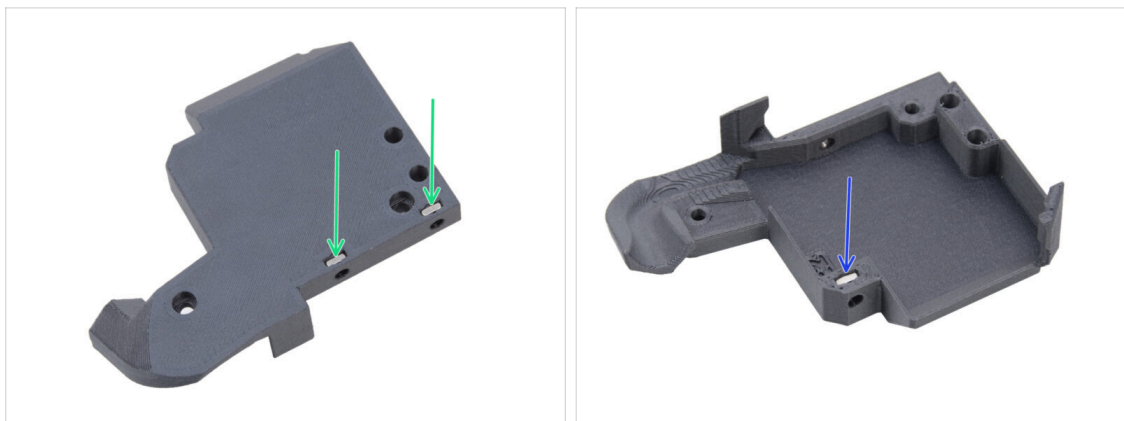
- For the following steps, please prepare:
- LoveBoard (1x) found in the Electronics package

KROK 29 Assembling the Loveboard-mount



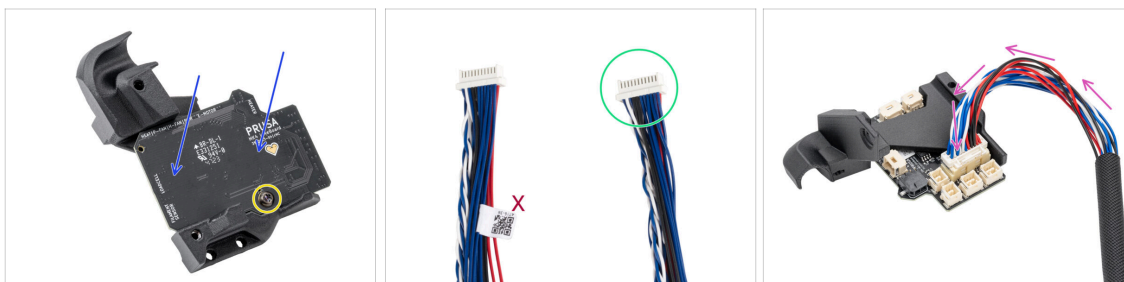
- Locate the U-shaped cable channel on the Loveboard-mount and insert an M3nS nut into the nearby hole.
- Use a 2.5mm Allen key to push the nut all the way in.
- On the opposite side of the part, insert an M3nS nut and push it into place.

KROK 30 Assembling the Printhead-cover



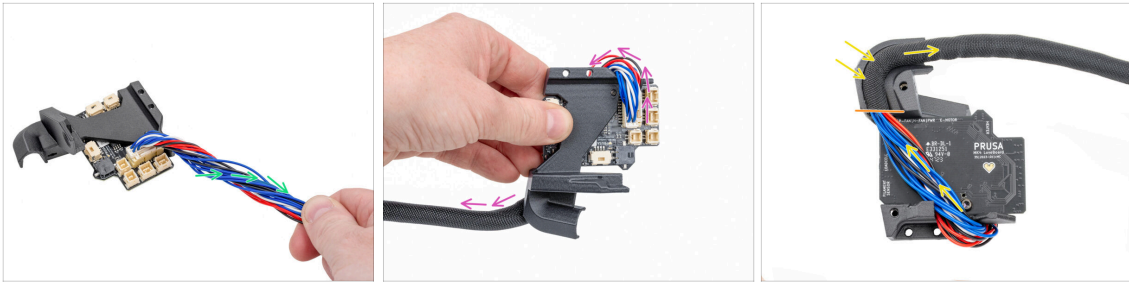
- 🟢 From the back of the printhead-cover, insert two M3nS nuts into the part.
- 🟡 From the other side of the printhead-cover, insert one M3nS nut into the part.

KROK 31 Assembling the LoveBoard



- 🟡 Place the LoveBoard to the Loveboard-mount. Note the correct orientation - the connectors must be facing downwards.
- 🟢 Align the holes with both parts and secure the board with the M3x8rT screw. **Do not overtighten it**, it might damage the part.
- 🟢 Take the end of the extruder main cable without the white label.
- 🟡 Turn the Loveboard-mount upside down and connect the Main cable to the LoveBoard.

KROK 32 Guiding the main cable



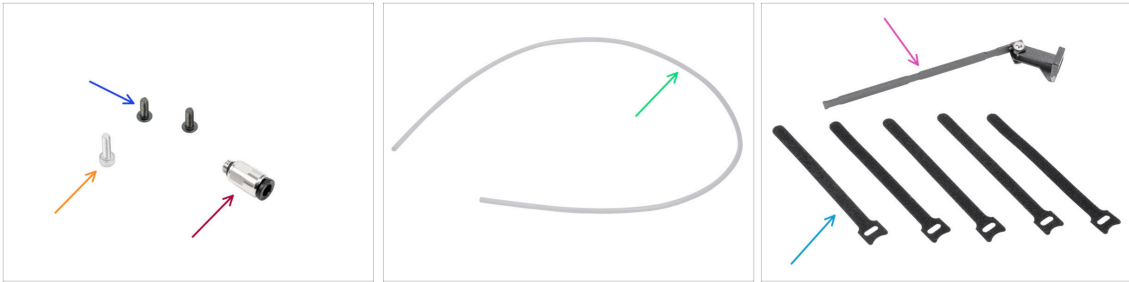
- ✚ Twist the main cable half a turn.
- ✚ Fold the main cable over the LoveBoard to its opposite side.
- ⬛ Turn the LoveBoard assembly upside down.
- ✚ Guide the main cable over the LoveBoard through the cable channel in the Loveboard-mount.
- ✚ The end of the textile sleeve must align with the edge of the plastic part.

KROK 33 Covering the LoveBoard



- ✚ Insert two M3x10 screws into the Loveboard-holder.
 - ⚠ Ensure you insert the screws from the correct side. Use the LoveBoard logo on the board as a reference.
- ✚ Cover the LoveBoard with the Printhead-cover.
 - ⚠ **Avoid pinching any wires in the main cable.**
- ✚ Przykręć części do siebie dwoma śrubami M3x10.
- ✚ Check that there is no large gap or pinched textile sleeve between the parts.

KROK 34 Swingarm: parts preparation I.



● **For the following steps, please prepare:**

- M3x8rT screw (2x)
- M3x10 screw (1x)
- Fitting M5-4 (1x) *found in the Electronics & Fasteners package*
- Rurka PTFE 710x4x2,5 (1x) *znajduje się w pakiecie CoreXY parts + Hinges set*
- Swingarm assembly (1x) *found in the Metal parts 3/3 package*
- Cable tie (5x) *found in the Electronics & Fasteners package*

ⓘ Packed in a stack and must be separated.

ⓘ The list continues in the next step...

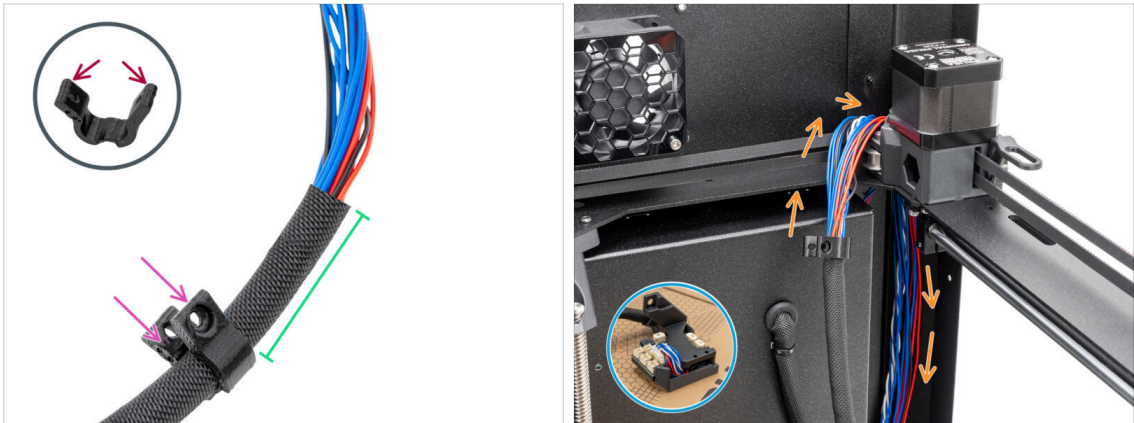
KROK 35 Swingarm: parts preparation II.



● **For the following steps, please prepare:**

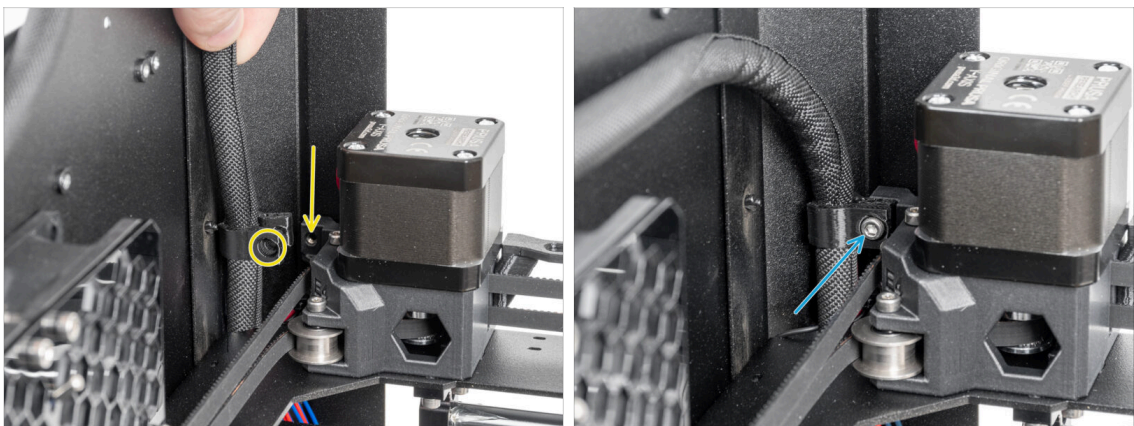
- Bowden-bend (1x) *found in the Printed parts package*
- Main-cable-clip (1x) *found in the Printed parts package*

KROK 36 Guiding the main cable



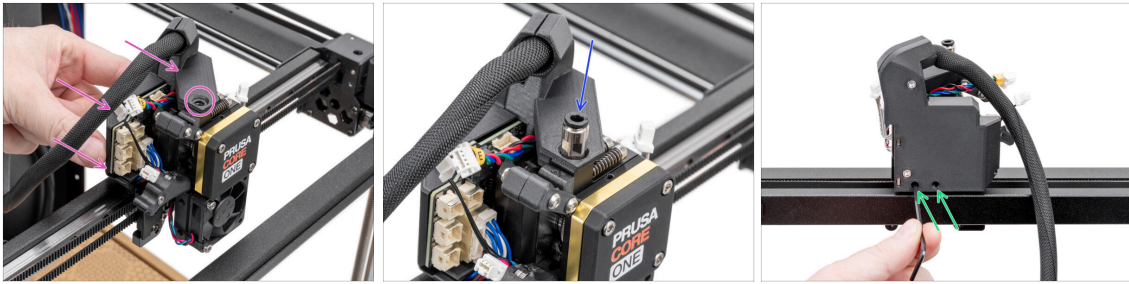
- Carefully open the Main-cable-clip. Be careful not to crack the part.
- Insert the main cable into the Main-cable-clip.
- Place the Main-cable-clip approximately 5 - 15 cm (2 - 6 in) from the end of the textile sleeve and close the clip.
- Place the LoveBoard assembly on the cardboard box on the heatbed.
- Wprowadź główną wiązkę przewodów za zespół CoreXY w prawym tylnym rogu.

KROK 37 Mounting the main cable



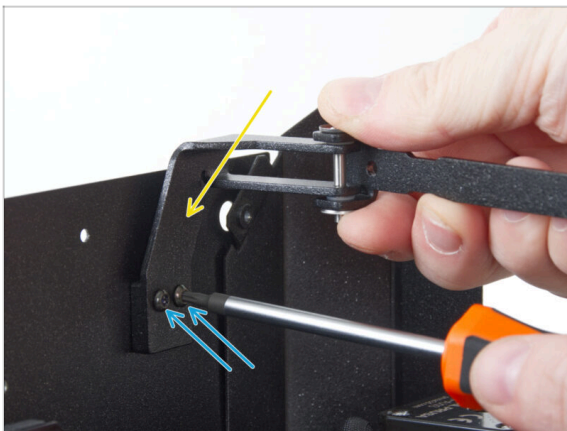
- In the right corner of the printer on the Y motor assembly, locate the hole in the plastic part and align it with the main-cable-clip.
- Fix the main-cable-clip with the cable to the hole using the M3x10 screw.

KROK 38 Attaching the LoveBoard assembly



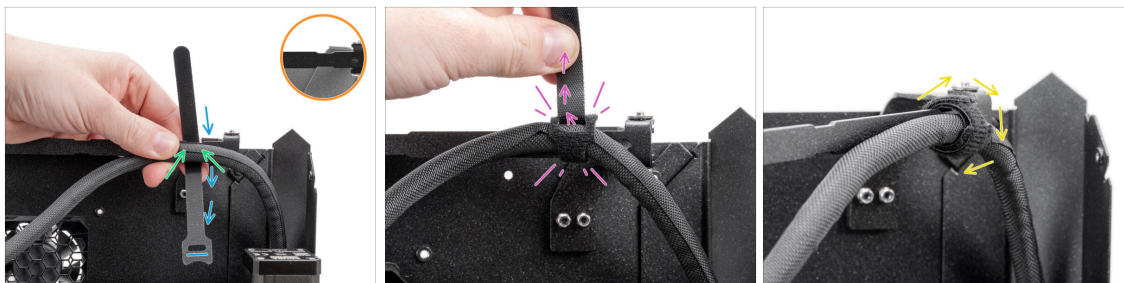
- ◆ From the back of the Nextruder, attach the LoveBoard assembly to the Nextruder.
- ◆ Align the hole in the Loveboard-mount with the threaded hole in the top of the heatsink (Nextruder).
- ◆ Insert and tighten the fitting M5-4 to the heatsink. Use the universal wrench.
- ◆ Z tyłu Nextrudera dokręć dwie śruby M3x10, aby przymocować zespół płytki Loveboard.

KROK 39 Mounting the swingarm



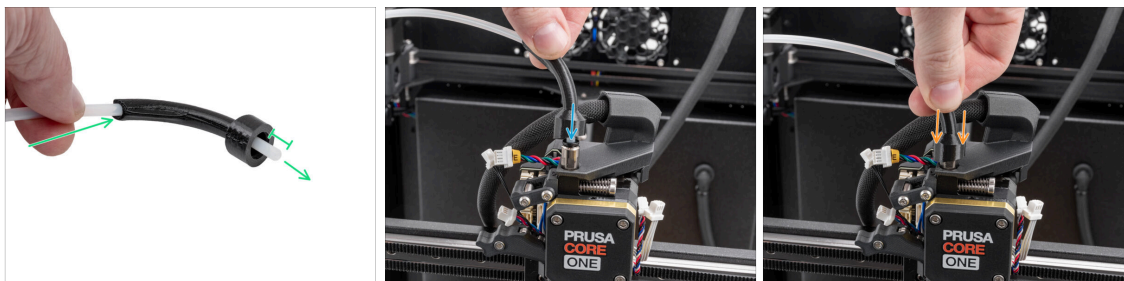
- ◆ Attach the swingarm assembly to the pair of threaded holes on the back panel near the top right corner.
- ◆ Secure it with two M3x8rT screws.
- ⚠ Do not overtighten the screws, as this may strip the threads.

KROK 40 Attaching the main cable



- 🟠 Notice the cutouts on the swingarm.
- 🟢 Position the main cable at the first cutout on the swingarm.
- 🔵 Place one cable tie behind the first cutout on the swingarm, ensuring the correct orientation of the zip strip.
- 🟡 Przełóż opaskę przez oczko, owijając ją wokół Swingarm i wiązki.
- ⬛ Zaciśnij opaskę tak mocno, jak to możliwe.
- 🟡 Wrap the cable tie around.

KROK 41 Inserting the PTFE tube



- 🟢 Push one end of the PTFE tube through the bowden-bend and keep protruding at least 1 cm (0.39 in) of the tube.
- 🔵 Insert the PTFE tube into the fitting M5-4 on the Nextruder. Push it all the way down.
- 🟠 Slide bowden-bend down to cover the fitting M5-4.

KROK 42 Securing the PTFE tube



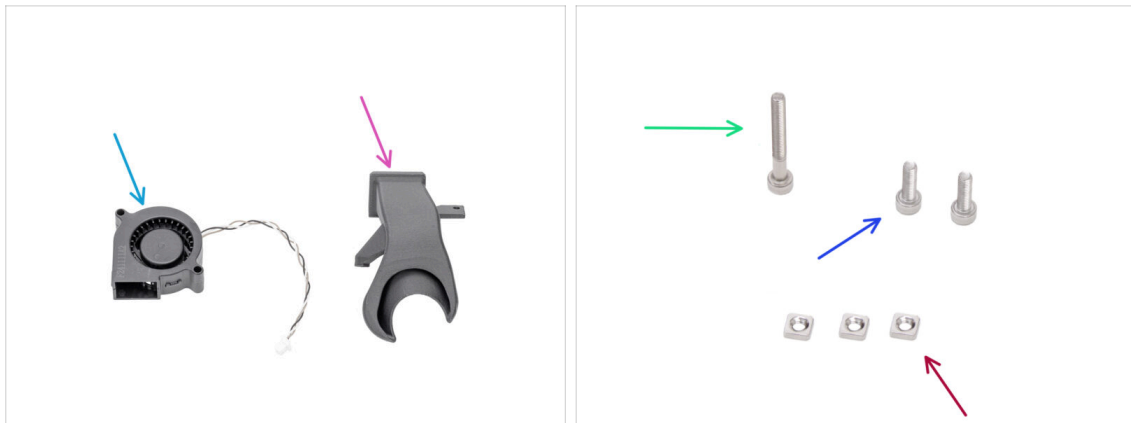
- ◆ Route the PTFE tube in parallel with the main cable, ensuring the PTFE tube stays above the main cable.
- ◆ Secure the PTFE tube and main-cable to the swingarm using two cable ties to the remaining cutouts.
- ⚠ Do not pass the PTFE tube through the first cable tie on the swingarm.
- ◆ Przepchnij wolny koniec rurki PTFE przez prowadnicę Bowdena [Bowden-guide] i płytę CoreXY w dół. Pozostaw koniec swobodnie zwisający.
- ◆ Złącz rurkę PTFE i wiązkę za pomocą pozostałych dwóch opasek kablowych, pozostawiając między nimi odstęp 10 cm (3,94 cala).

KROK 43 Checking the movement



- ◆ Manually move the XY axes to their end positions several times and ensure that:
 - ◆ The main cable is not too tight and does not pull the Nextruder backward.
 - ◆ The main cable does not form an excessively large arc.
 - ◆ If the cable is too tight or forms a large arc, slightly loosen the screw on the main cable clip and pull the cable upward or downward by a few millimeters. Then, tighten the screw and test again.

KROK 44 Print fan: parts preparation



■ For the following steps, please prepare:

- Print fan (1x) found in the Electronics package
- Fan-shroud (1x) found in the Printed parts package
- M3x25 screw (1x)
- M3x10 screw (2x)
- M3nS nut (3x)

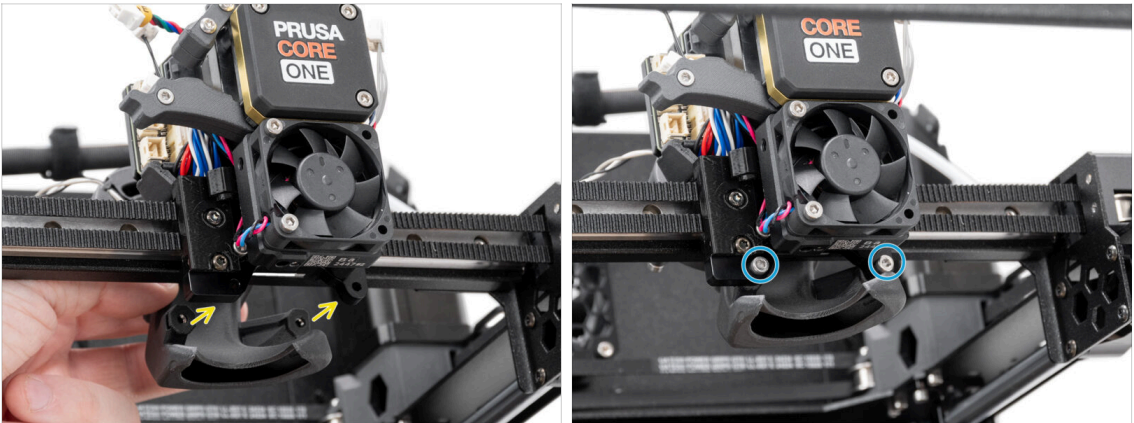
KROK 45 Assembling the fan-shroud



- Insert two M3nS nuts from one side into the fan-shroud.
- From the other side, insert one M3nS nut into the fan-shroud.
- Insert the print fan into the fan-shroud as shown. See the correct orientation of the parts.
- Przymocuj wszystkie części jedną śrubą M3x25.

⚠ Nie dokręcaj śrub zbyt mocno, aby nie uszkodzić obudowy wentylatora.

KROK 46 Installing the print fan assembly



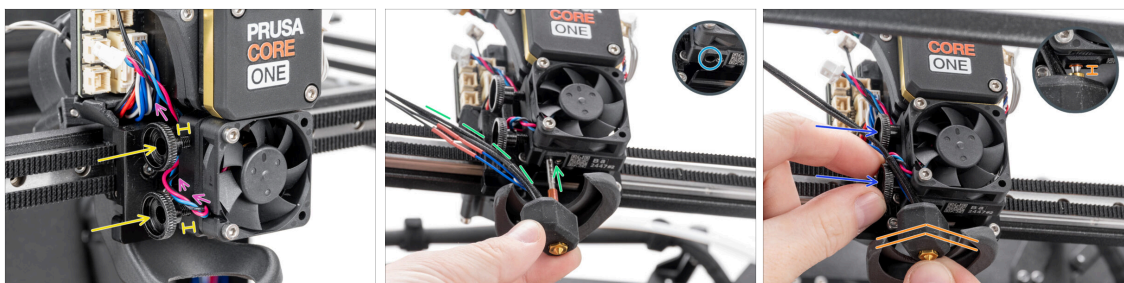
- Attach the print fan assembly to the back of the Nextruder.
- Align the holes in the Nextruder bracket with the holes in the fan-shroud.
- Secure the fan-shroud to the Nextruder holder using two M3x10 screws.

KROK 47 Hotend: parts preparation



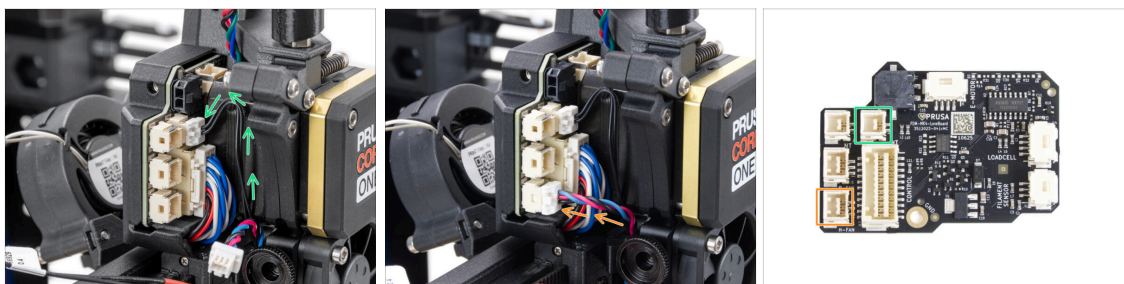
- **For the following steps, please prepare:**
- Thumb screw (2x) found in the Electronics package
- Prusa Hotend assembly (1x) found in the Electronics package

KROK 48 Installing the hotend



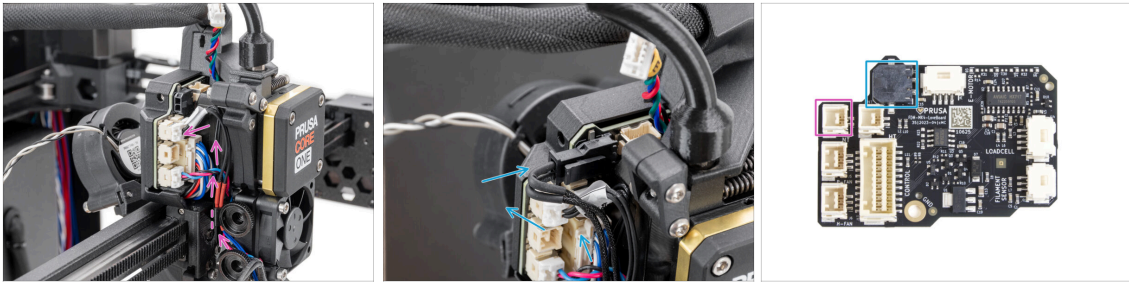
- ✿ Route the heatsink fan cable above the first threaded hole in the heatsink.
 - ✿ Insert two thumb screws into the heatsink. **Do not tighten them completely.** Two turns are enough for now.
 - ✿ Look closely at the underside of the heatsink and find the hole for the hotend assembly.
 - ✿ Włóż rurkę hotendu (prowadnicę dyszy) do otworu i wsuń całość do radiatora.
 - ✿ Point the cables to the left according to the photo.
 - ✿ Push the hotend assembly all the way into the heatsink. There should be approximately a 2 mm (0.08 in) gap between the heatsink and the brass part of the nozzle.
 - ✿ While pushing the hotend assembly in, **firmly tighten both thumb screws.**
- ⚠ **Avoid pinching any cable between the screws and the heatsink!**

KROK 49 Connecting the heatsink cables



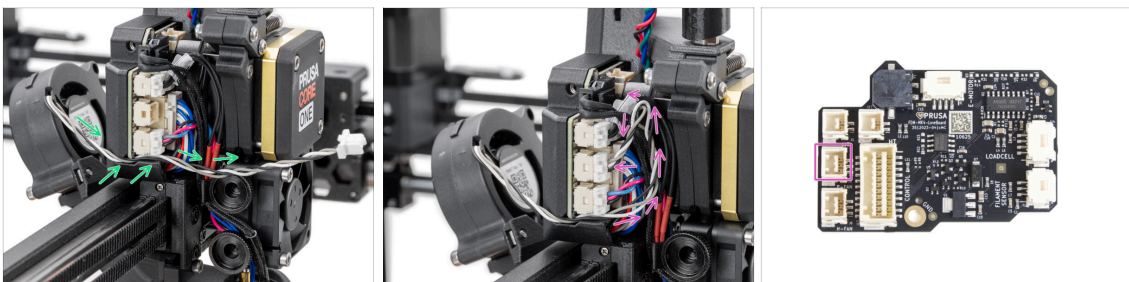
- ✿ Plug the NTC thermistor cable into the connector above the main cable on the LoveBoard.
- ✿ Plug the Hotend fan cable into the lower connector in the left row of the LoveBoard.

KROK 50 Connecting the hotend cables



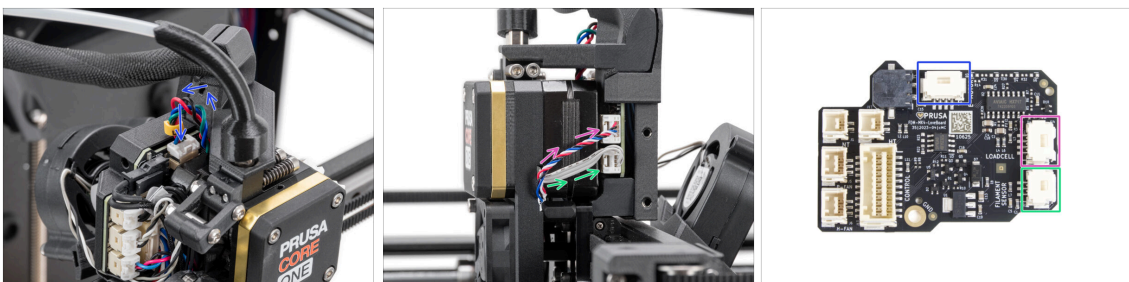
- ◆ Guide the hotend thermistor through the cable-clip on the Nextruder and connect it to the LoveBoard.
- ◆ Guide the hotend heater through the cable-clip on the Nextruder and connect it to the LoveBoard.

KROK 51 Connecting the print fan cable



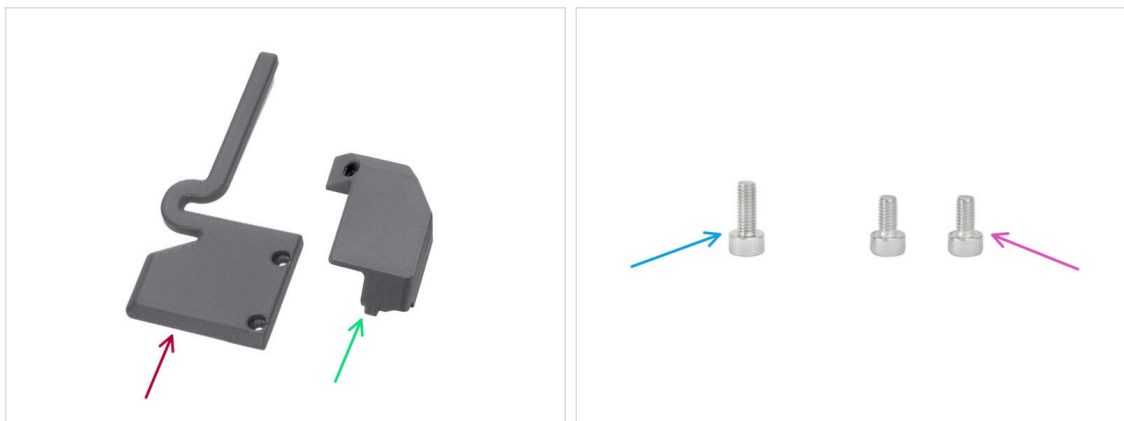
- ◆ Guide the print fan cable through the channel in the plastic cover.
- ◆ Create a loop with the print fan cable in the cable area and plug it into the middle connector in the LoveBoard.

KROK 52 Connect E-motor cable



- ◆ Plug the Nextruder motor (labeled E) to the top-facing connector.
- ◆ Plug the loadcell cable (lower cable) to the upper connector on the right side of the Nextruder.
- ◆ Plug the filament sensor (upper cable) to the lower connector.

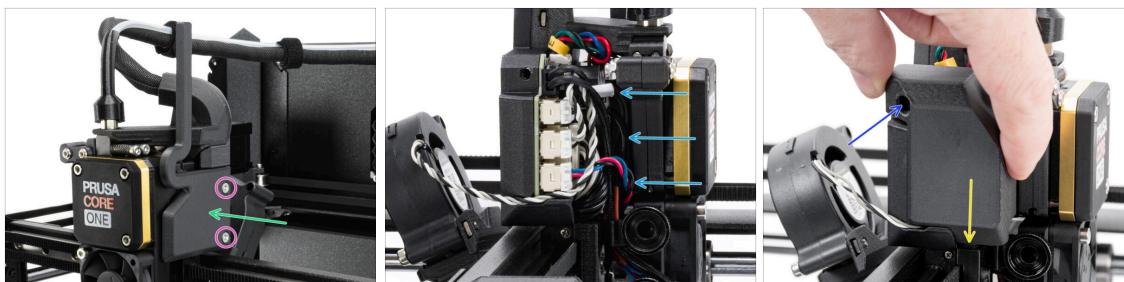
KROK 53 LoveBoard covers: parts preparation



● **For the following steps, please prepare:**

- Printhead-cover-right-lever(1x)
- Print-head-cover-right (1x) *found in the Printed parts package*
- M3x10 screw (1x)
- M3x6 screw (2x)

KROK 54 Covering the LoveBoard

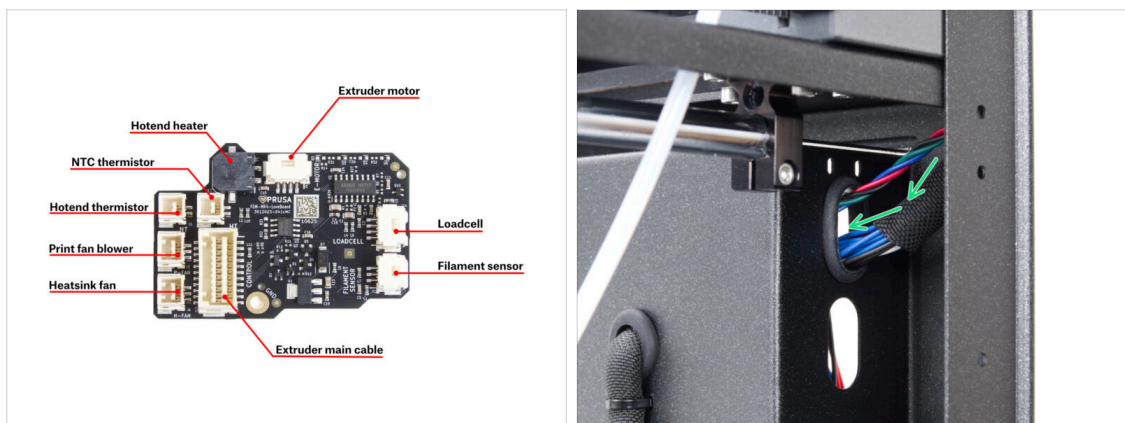


- Place the Printhead-cover-right-lever on the right side of the Nextruder.

⚠ **Do not pinch the cables!**

- Secure the cover with two M3x6 screws.
- Dociśnij przewody do płyty LoveBoard tak bardzo, jak to możliwe, aby nie wystawały i nie przeszkadzały w montażu pokrywy.
- Attach the Print-head-cover-left on the left side of the Nextruder.
- **Note the protrusion on the underside of the cover - the protrusion must fit into the counterpart on the Nextruder.**
- Secure the cover with one M3x10 screw.

KROK 55 LoveBoard: Wiring check



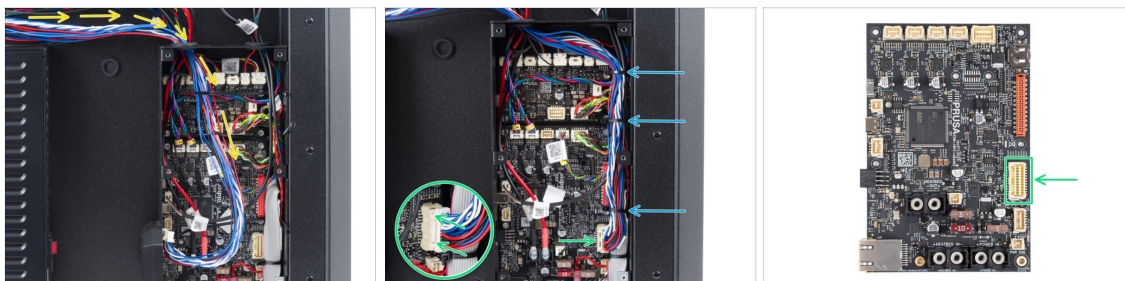
⚠ Before covering the electronics, check the connection of all cables.

i Click on the picture to open it in the high-resolution preview.

➡ Guide the main-cable through the upper hole on the right side of the back panel assembly.

⬛ Pozostaw koniec wiązki luźny na tym etapie.

KROK 56 Guiding the main cable



⬛ Rotate the printer so that the backside faces you.

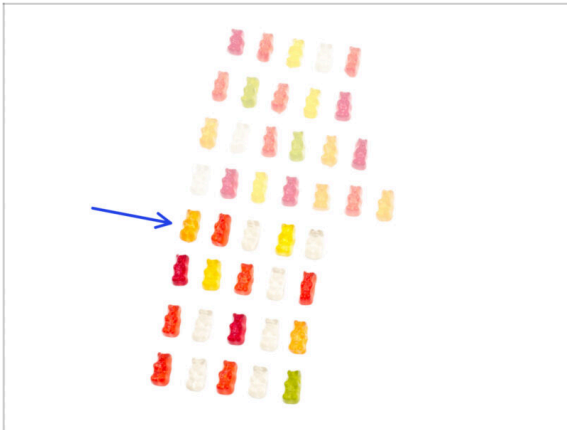
➡ Route the main cable through the left hole into the xBuddy box.

➡ Plug the main-cable to the slot on the right side of the xBuddy board.

i Jeśli złącze nie sięga gniazda lub wiązka jest zbyt napięta, wróć do kroku **Organizacja głównej wiązki przewodów** i wyciągnij wiązkę lekko w dół z klipsa [main-cable-clip].

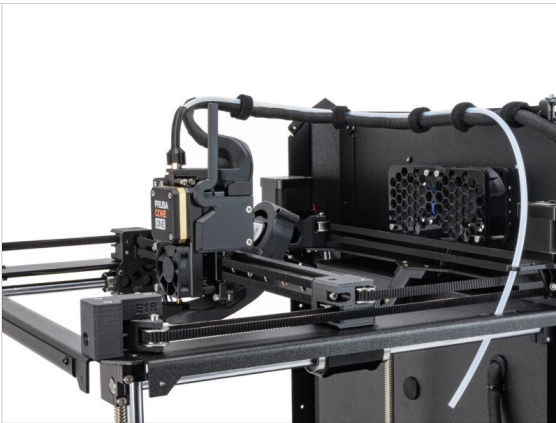
➡ Secure the cables with the pre-threaded zip ties in the xBuddy box. Carefully cut the excess, **avoiding cutting the cables**.

KROK 57 Czas na Haribo



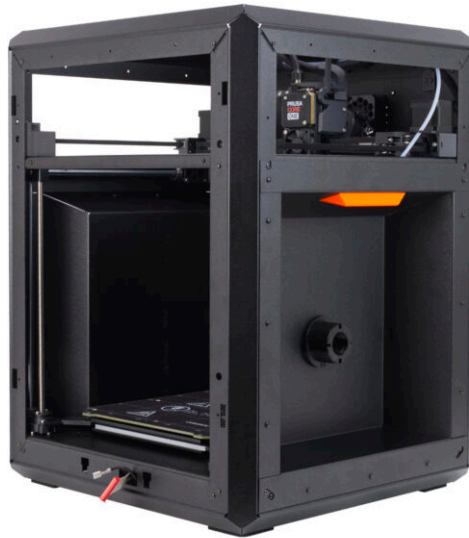
- ⬛ Power up and push forward!
- ⬛ Eat the fifth row.
- ⬛ Not full yet?

KROK 58 Gotowe

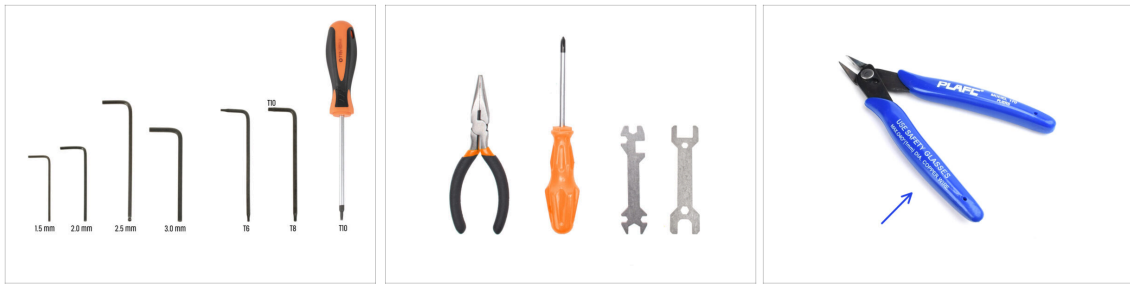


- ⬛ Congratulations! You just successfully assembled the Nextruder.
- ⬛ Let's move to the next chapter.

7. Bodywork & Electronics



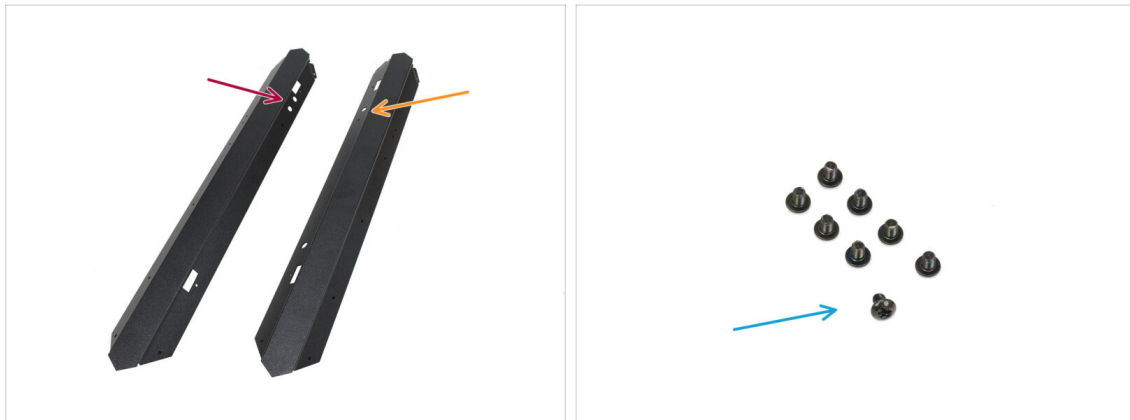
KROK 1 Tools necessary for this chapter



● **For the following steps, please prepare:**

- Klucz imbusowy 2,5 mm
- Klucz imbusowy 1,5 mm
- Klucz Torx T10
- Szczypce spiczaste
- Obcinaczki boczne (opcjonalnie)

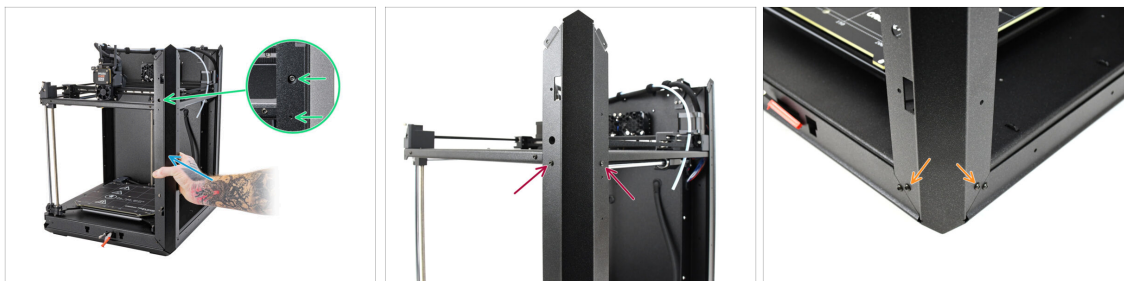
KROK 2 Front profiles: parts preparation



● **For the following steps, please prepare:**

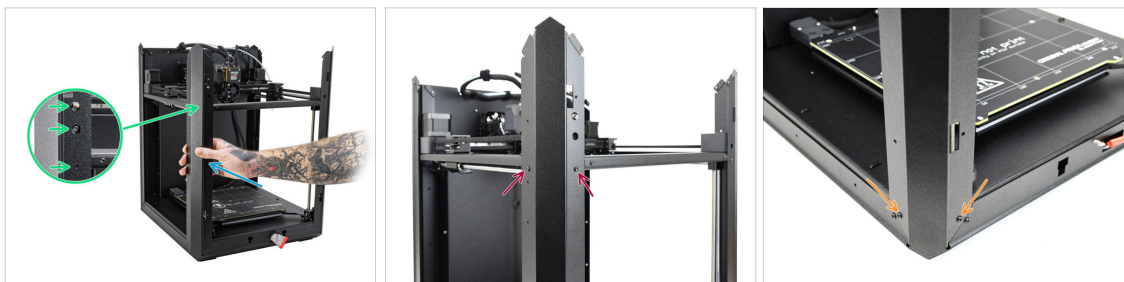
- Front Left Profile [przedni lewy profil] (1x) *znajduje się w pakiecie Metal parts 1/3*
 - ① The one with the two circular openings on top.
- Front Right Profile (1x) *found in the Metal parts 1/3 package*
 - ① The one with one circular opening on top.
- Śruba M3x4rT (8x)

KROK 3 Installing the front right profile



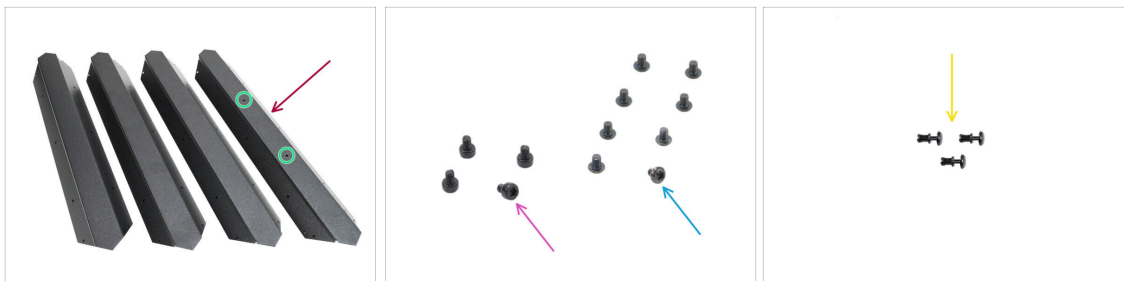
- Attach the Front Right Profile to the printer.
 - i Upewnij się, że używasz właściwego profilu - powinien on mieć **jeden duży okrągły otwór** na śrubę napinającą pasek.
- Align the profile so that the calibration screw opening and the smaller bolt opening line up with the thread.
- Secure the profile to the CoreXY assembly using two M3x4rT screw
- Fix the profile at the bottom using the two M3x4rT screws.

KROK 4 Installing the front left profile



- Attach the Front Left Profile to the printer.
 - i Upewnij się, że używasz właściwego profilu - powinien on mieć **dwa duże okrągłe otwory** na czujnik drzwi i śrubę napinającą pasek.
- Align the profile so that the openings match. **Be careful not to bend the door sensor lever!**
- Secure the profile to the CoreXY assembly using two M3x4rT screw
- Fix the profile at the bottom using the two M3x4rT screws.

KROK 5 Top profiles: parts preparation



- Top Profile (4x) *found in the Metal parts 1/3 package*
- Zwróć uwagę, że jeden z profili ma dwa otwory pośrodku - jego miejsce jest z tyłu.
- Śruba M3x4rT (8x)
- M3x4 screw (4x) *with the different head type*
- Nit nylonowy (3x)

KROK 6 Assembling the top profiles I.



- ⚠ Be very careful when handling sharp sheet metal parts to avoid injury or damage.
- Umieść górny profil z dwoma otworami na płaskiej stronie tak, jak na ilustracji.
- Orient the part according to the picture. **Use the flange as a guide.**
- Place any other of the top profiles on the left side. Orient the part according to the picture. **Use the flange as a guide.**
- Attach the two profiles together.
 - ⚠ The flange of the front plate (blue arrow) must be inserted **under** the left universal profile (green arrow), not on top of it.
- Align the holes in both parts and join both parts together with the M3x4 screw.
- Using the same procedure, join the other two profiles to form a corner, securing them with an M3x4 screw.

KROK 7 Assembling the top profiles II.

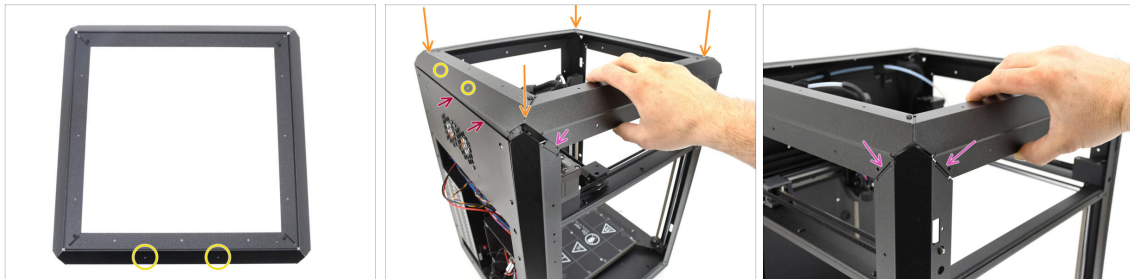


- Attach the corner profile assembly to the first one, aligning the holes on the flanges with the holes in the profiles.

⚠ Upewnij się, że zakładki są wsunięte **pod** profile.

- Join the both profile assemblies using two M3x4 screws.

KROK 8 Aligning the top profiles



- Find the profile with **two openings in the middle**—this part should be positioned at the **rear of the printer**.
- Załóż górny profil na drukarkę, upewniając się, że dwa otwory są skierowane do tyłu.
- The protruding part of the rear profile must be positioned behind the back sheet metal plate.
- On the sides and front, the profiles must sit on top of the tabs with threaded openings.

KROK 9 Installing the top profiles



- 🟢 Once all the top profiles are properly aligned, fix them in place using the remaining 8 M3x4rT screws in the corners.
- 🟡 Przymocuj tylny panel do górnego profilu trzema nylonowymi nitami.

KROK 10 CoreXY fixing screws: parts preparation



⬛ For the following steps, please prepare:

- 🔵 Śruba M3x4rT (4x)

KROK 11 Fixing the CoreXY assembly



- Align the CoreXY assembly so the threaded holes match the screw openings in the rear profiles. You may need to push the assembly upward to align the holes.
- Przykręć zespół CoreXY czterema śrubami M3x4rT we wskazanych otworach.

KROK 12 Side sensor base: parts preparation



- **For the following steps, please prepare:**
- Filament-sensor-body [korpus czujnika filamentu] (1x)
- Filament-sensor-lever [dźwignia czujnika filamentu] (1x)
- Filament-sensor-switch [przełącznik czujnika filamentu] (1x)
- Śruba M3x10 (1x)
- 10x6x2mm magnet (2x) *found in the Electronics & Fasteners package*
- 7mm Ferromagnetic Ball (1x) *found in the Electronics & Fasteners package*
- Podkładka M3w (1x)

KROK 13 Assembling the side sensor base



- Insert one of the magnets into the dedicated opening in the Lever.
- Umieść kulkę w odpowiednim otworze po wewnętrznej stronie podstawy czujnika.
- Insert the lever with the magnet into the Base.

i The part with the magnet should be positioned next to the ball.

Note that the ball will be attracted to the magnet—ensure it stays securely in place.

- Przymocuj dźwignię śrubą M3x10 z podkładką M3w. Na razie dokręć ją tylko o kilka obrotów - tylko na tyle, aby utrzymać ją na miejscu.

! **Nie dokręcaj śruby do końca.** W przeciwnym razie dźwignia nie będzie się poruszać, a czujnik nie będzie działać!

KROK 14 Test dźwigni



- Verify the lever is able to move freely.
- Jeśli dźwignia nie porusza się z luzem lub nie można jej w ogóle poruszyć, poluzuj śrubę o ćwierć obrotu i sprawdź ponownie.

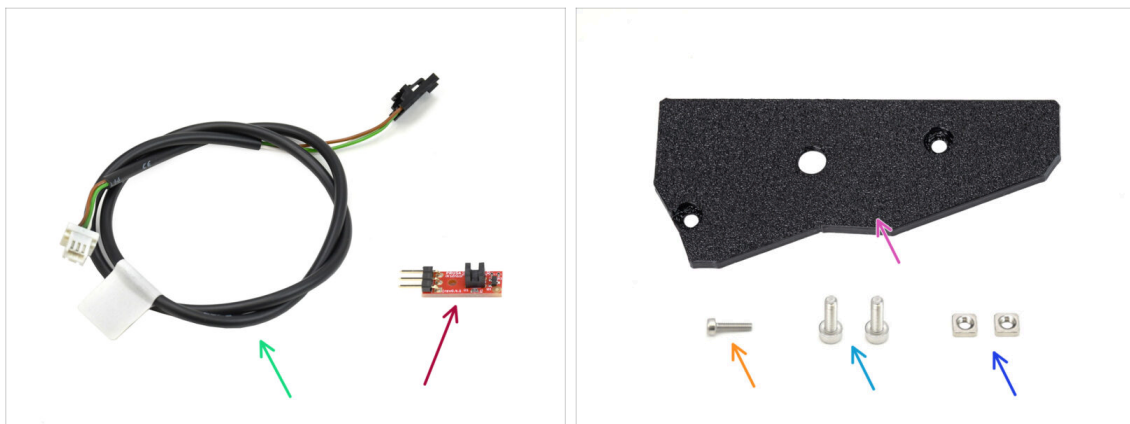
! Śruba **nie może być całkowicie dokręcona**, aby dźwignia mogła się swobodnie poruszać.

KROK 15 Montaż przełącznika



- Wsuń drugi magnes 10x6x2 do przełącznika [filament-sensor-switch].
- Umieść przełącznik czujnika filamentu [filament-sensor-switch] w korpusie [filament-sensor-switch].
- Przesuń przełącznik do lewej pozycji, tak aby magnesy znalazły się naprzeciwko siebie.
- Upewnij się, że **magnesy się odpychają** - elementy powinny się samoczynnie odsuwać.
- **Jeśli się przyciągają:** wyjmij magnes z przełącznika i odwróć go. Następnie sprawdź ponownie.
- ① *Pro tip: Użyj jednego z cienkich kluczy imbusowych lub Torx, aby wyjąć magnes z przełącznika.*

KROK 16 IR Sensor: parts preparation



- **For the following steps, please prepare:**
- Side Filament Sensor Cable [przewód bocznego czujnika filamentu] (1x) *znajduje się w pakiecie Electronics & Fasteners*
- IR Filament Sensor (1x) *found in the Electronics & Chamber parts package*
- Side Filament Sensor Cover (1x) *found in the Printed package*
- Śruba M2x8 (1x)
- Śruba M3x10 (2x)
- Nakrętka kwadratowa M3nS (2x)

KROK 17 Connecting the IR sensor



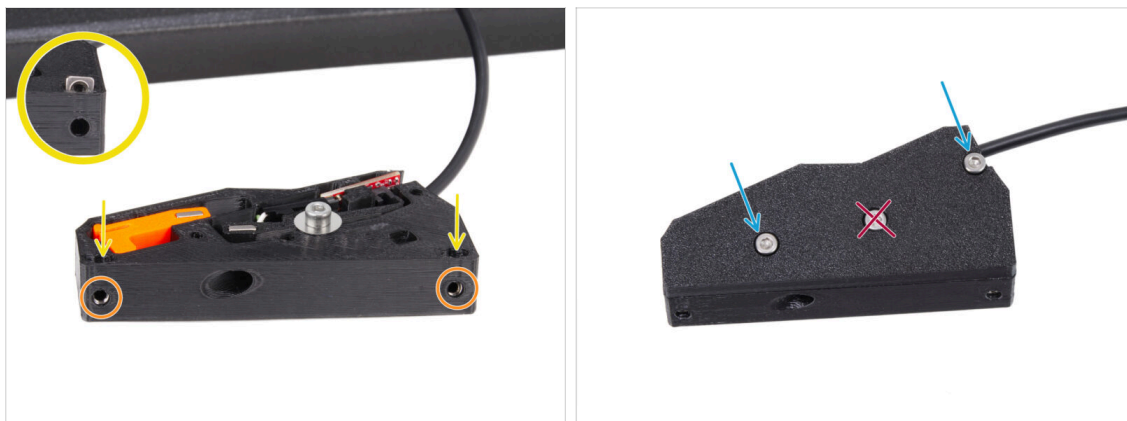
- 🟢 Plug the cable into the IR filament sensor.
- ⚠️ **Przed podłączeniem upewnij się, że złącze jest prawidłowo ustawione!**
- 🟠 On CORE One, the brown cable must connect to the +5V pin.
- 🟡 The white cable connects to the GND pin.

KROK 18 Installing the IR sensor



- 🟢 First, insert the cable into the groove. The black connector should be approximately in the middle of the sensor base.
- 🟠 Umieść czujnik IR w przeznaczonym do tego rowku.
- 🟡 The lever must fit into the optical gate part of the sensor.
- 🟠 Make sure neither the connector nor the cables touch the lever, as this could prevent the sensor from functioning correctly.
- 🟡 Using the 1.5mm Allen key, fix the sensor in place with the M2x8 screw.

KROK 19 Installing the side sensor cover



- ✚ Insert the two M3nS nuts into the designated openings. Use a 1.5mm Allen key to **push them all the way in.**
 - ✚ Spójrz z boku, aby upewnić się, że gwinty w nakrętkach pokrywają się z otworami.
 - ✚ Add the cover part onto the assembly.
 - ✚ Fix the cover in place using two M3x8 screws on the sides.
- ⚠ **Nie dokręcaj śruby na środku! W przeciwnym razie czujnik przestanie działać.**

KROK 20 Side filament sensor: parts preparation



- ⬛ **For the following steps, please prepare:**
- ✚ Zespół bocznego czujnika filamentu (1x) *zmontowany wcześniej*
- ✚ Collet (1x) *found in the Electronics & Fasteners package*
- ✚ Opaska zaciskowa (3x)

KROK 21 Installing the side filament sensor



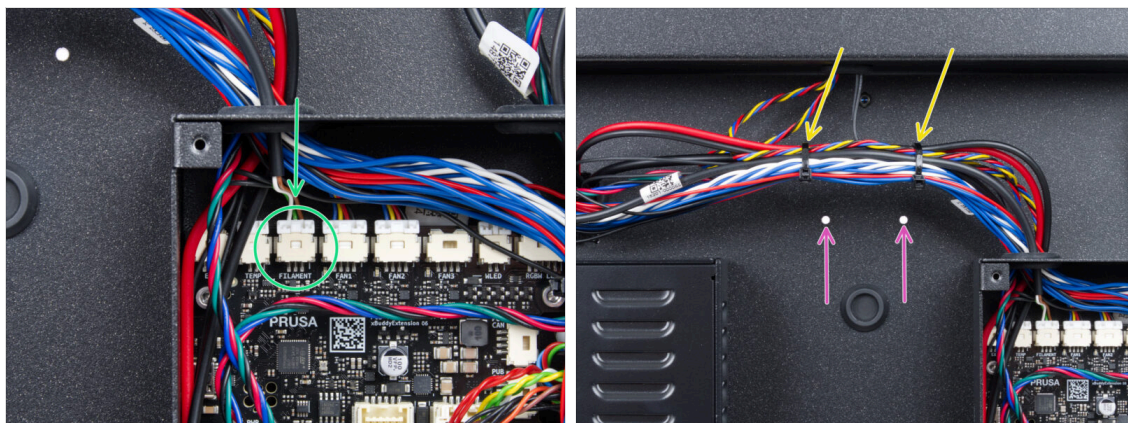
- Install one zip-tie into the marked openings. We will use it to attach a cable underneath the metal profile.
 - Włóż tuleję zaciskową do wskazanego otworu na zespole czujnika.
 - Attach the sensor assembly onto the PTFE tube in the printer.
- ⚠ Make sure to push the tube all the way in!

KROK 22 Guide the filament sensor cable



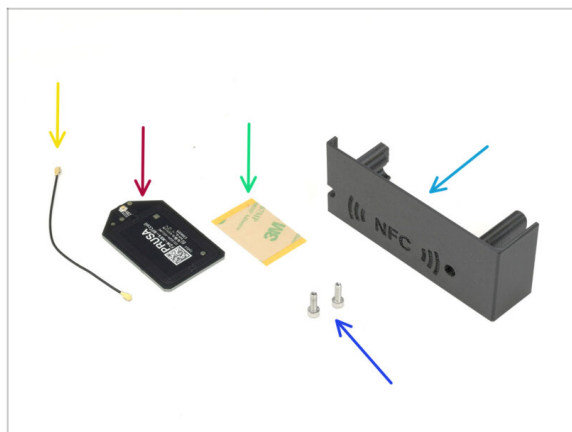
- Move the sensor assembly up, roughly to the middle of the printer's frame, to align the cable properly.
- Po umieszczeniu przewodu w odpowiednim miejscu przymocuj go pod metalowym profilem opaską zaciskową. Zaciśnij ją lekko, umożliwiając późniejszą regulację przewodu i odetnij jej nadmiar.
- Guide the sensor cable through the dedicated opening to the back of the printer.
- Z tyłu drukarki poprowadź przewód do obudowy xBuddy. Pozostaw go na razie luźno.

KROK 23 Connecting the side filament sensor



- Connect the Side Filament Sensor cable into the connector labeled FILAMENT on top of the xBuddy extension board.
- i Do pomocy możesz użyć szczypiec spiczastych, ale uważaj, aby nie uszkodzić przewodów.
- Use two zip-ties to clamp the cable bundle together in the marked area.
 - Secure the cables in the **highest possible position** to ensure they clear the two openings on the sheet metal below.
- ⚠ Do not over-tighten the zip ties or strain the cables too much!

KROK 24 NFC Antenna: parts preparation



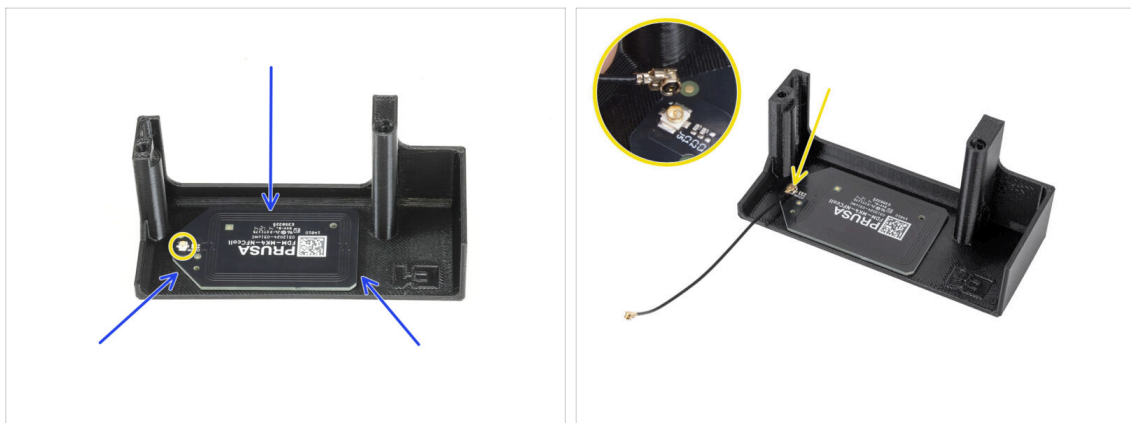
- For the following steps, please prepare:
 - El-box-cover [pokrywa zacisków płytki] (1x) znajduje się w pakiecie Printed parts
 - Śruba M3x10 (2x)
 - NFCcoil (1x) found in the Electronics & Chamber parts package
 - Adhesive film 32 x 25 mm (1x) found in the Electronics & Chamber parts package
 - NFC coil cable (1x) found in the Electronics & Chamber parts package

KROK 25 Applying the adhesive film



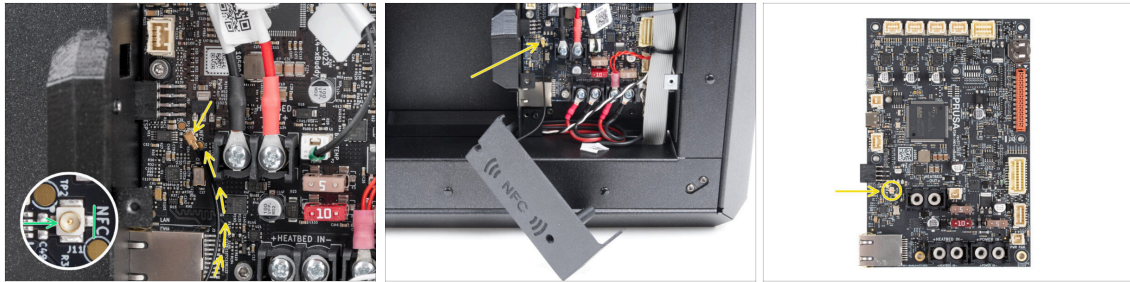
- ✦ Peel off the yellow protective film from the adhesive tape.
- ✦ Przyklej taśmę na płaską stronę cewki NFC, upewniając się, że przylega prawidłowo.
- ✦ Peel of the remaining protective layer from the NFC coil.

KROK 26 Installing the NFC Coil



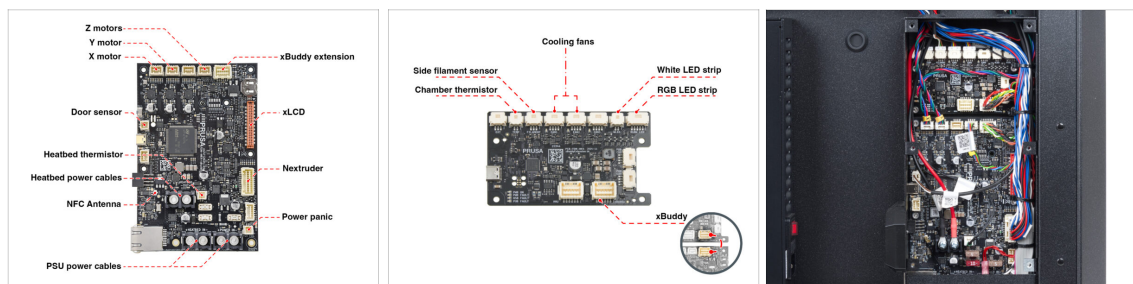
- ✦ Stick the NFC coil onto the inner side of the EI-box cover, approximately as shown in the picture.
- ⓘ Małe okrągłe złącze powinno znajdować się bliżej krawędzi pokrywy.
- ✦ Connect the cable to the board by aligning the connectors and pressing lightly until you feel a click, ensuring a secure connection.
- ⚠ Be careful when connecting the NFC coil cable. Misalignment or excessive pressure can cause irreversible damage.

KROK 27 Connecting the NFC Coil



- 🟢 Locate the small round connector labeled NFC on the bottom left side of the xBuddy board.
- 🟡 Podłącz przewód do płytki, dopasowując złącza do siebie i lekko naciskając, aż poczujesz kliknięcie.

KROK 28 Kontrola okablowania



- 🟡 Use the pictures as a reference to verify your electronics connections.

⚠️ Upewnij się, że złącza są wsunięte do końca, a przewody zasilacza dobrze dokręcone. W przeciwnym przypadku ryzykujesz uszkodzeniem drukarki!

KROK 29 Preparing the electronics cover



- Push two M3x10 screws through the EI-box-cover.

KROK 30 Installing the electronics cover



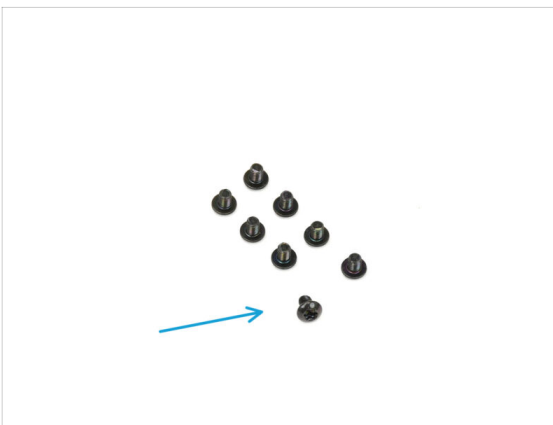
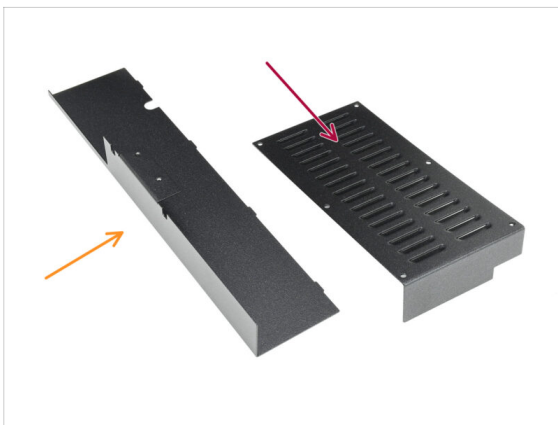
- Ensure the threaded holes on the bottom of the xBuddy box are not obstructed by cables.
- Jeśli tak, przestaw przewody tak, aby zapewnić swobodny dostęp do otworów.
- Align the cover with the opening in the xBuddy box and fix it in place by tightening the screws.
- Route the NFC cable through the space between the Ethernet connector and the PSU power cables.
- ⚠ Avoid running it through the Ethernet connector or the power cables. The cable may be damaged when covering the xBuddy box.**

KROK 31 Informacja o kamerze Buddy3D



- i** Dla użytkowników planujących montaż kamery Buddy3D w przyszłości:
- Jeśli planujesz używać kamery Buddy3D, przewód USB jest już poprowadzony.
 - Szczegółowe informacje na temat montażu i podłączenia kamery Buddy3D znajdziesz w tym przewodniku: **Montaż kamery Buddy3D w CORE One**

KROK 32 xBuddy cover: parts preparation



- **For the following steps, please prepare:**
- Sheet metal back cover [maskownica przewodów] (1x) *znajduje się w pakiecie Metal parts 2/3*
 - xBuddy cover (1x) *found in the Metal parts 3/3 package*
 - Śruba M3x4rT (8x)

KROK 33 Installing the xBuddy cover



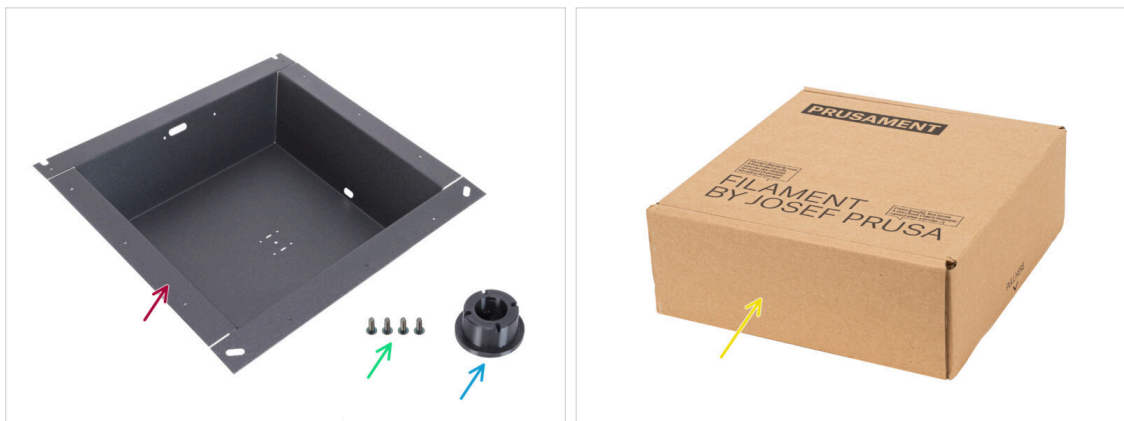
- 🟢 Ułóż przewody wewnątrz obudowy xBuddy tak, jak na ilustracji.
- 🟡 Ostrożnie zakryj obudowę xBuddy, wsuwając najpierw wygiętą część pokrywy.
- ⚠️ **Avoid pinching the cables. Double-check the NFC coil cable position.**
- 🔵 Secure the xBuddy box cover using the six M3x4rT screws.

KROK 34 Installing the rear cover



- 🔵 Align the rear sheet metal cover so that the cables can run through the "tray".
- 🟠 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.
- 🟢 Secure the rear cover in place using two M3x4rT screws from inside the printer.

KROK 35 Right side: parts preparation



For the following steps, please prepare:

Right side sheet metal (1x) found in the Metal parts 2/3 package

⚠ The correct **right-side** piece can be easily identified by the screw openings in the middle.

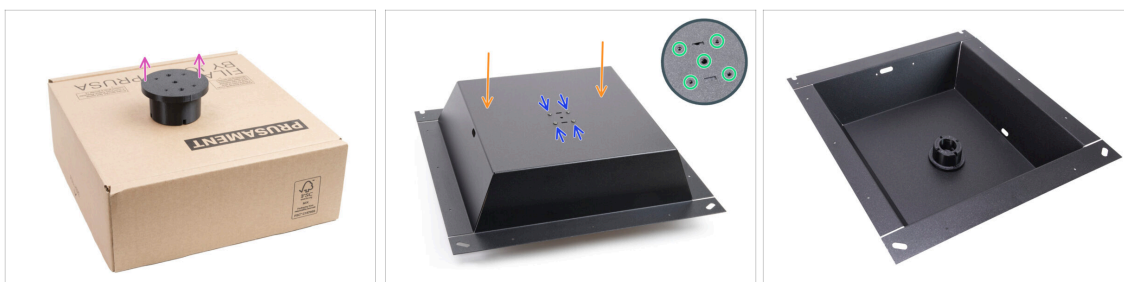
Śruba M3x8rT (4x) znajdują się w pakiecie Electronics & Fasteners

Puck-universal [krążek uniwersalny] (1x)

Dowolne kartonowe pudełko

📌 Wskazówka: dobrze sprawdza się pudełko po Prusamencie.

KROK 36 Installing the spoolholder puck



Połóż krążek na pudełku tak, aby otwory na śruby były skierowane do góry.

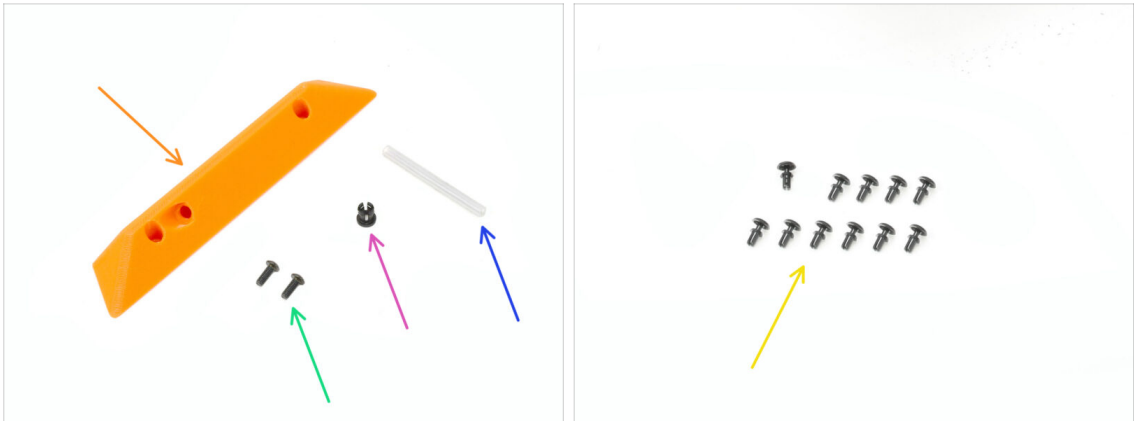
Ostrożnie połóż prawy panel na krążku, ustawiając go na środku.

Wyrównaj otwory w krążku z otworami w prawym panelu.

Przykręć krążek czterema śrubami M3x8rT.

📌 Śruby mogą stawiać opór podczas dokręcania, ponieważ same wycinają gwint w otworze.

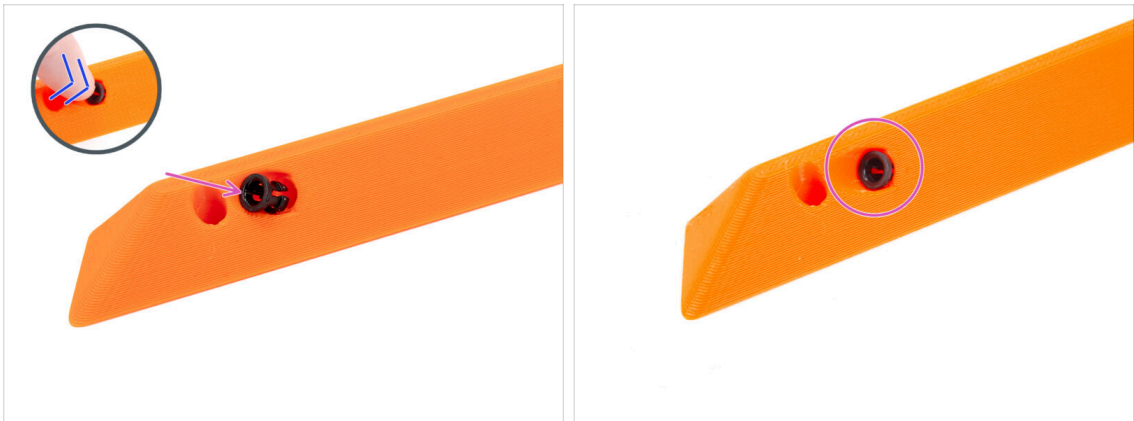
KROK 37 Right handle: parts preparation



For the following steps, prepare:

- Side Handle (1x) *found in the Printed parts package*
- Śruba M3x8rT (2x)
- Collet (1x) *found in the Electronics & Fasteners package*
- PTFE Tube 4 x 2.5 x 45 mm (1x) *found in the CoreXY parts + Hinges set package (together with hinges parts)*
- Nit nylonowy (11x)

KROK 38 Montaż tulei zaciskowej



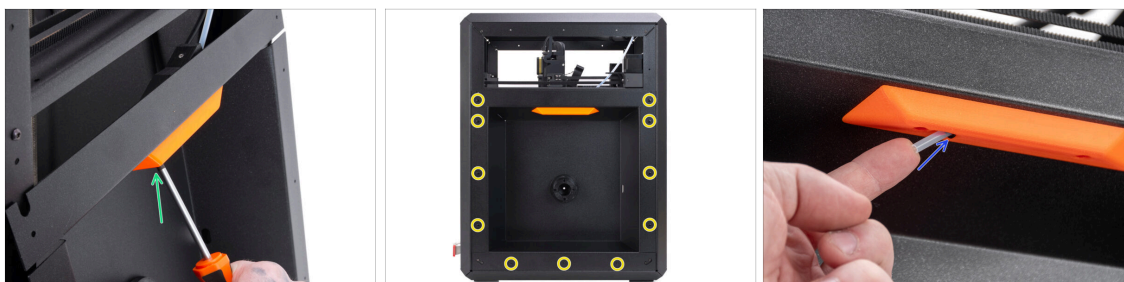
- Insert the collet into the handle.
- Push it all the way in.

KROK 39 Montaż uchwytu



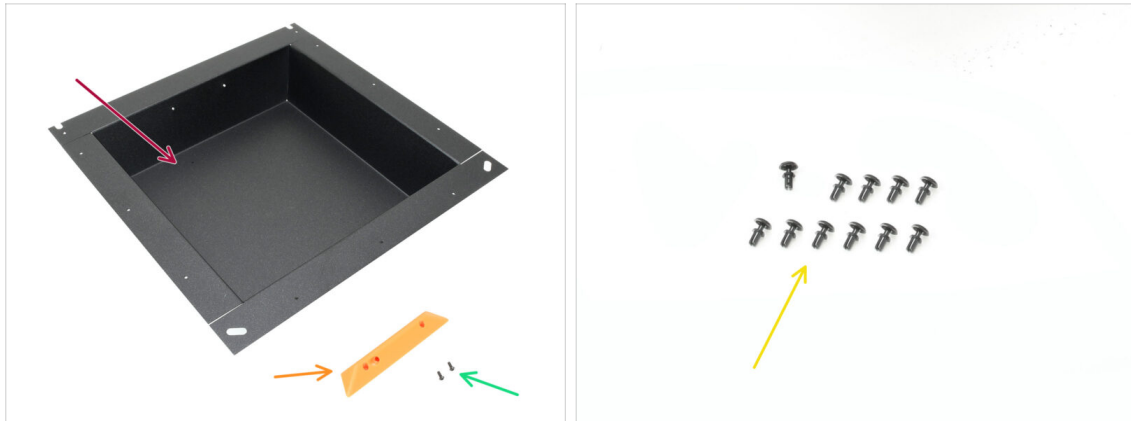
- ◆ Przyłóż zespół prawego panelu do prawej strony drukarki. Upewnij się, że wycięcia w kształcie litery U są skierowane do góry.
- ◆ Attach the right handle to the right metal sheet.
- ◆ Push one M3x8rT screw through the rear hole in the handle and the metal sheet.
- ◆ Attach the side filament sensor assembly on the screw.
- ⚠ **Do not pull the side sensor assembly too far; bring the right side metal sheet as close as possible.**
- ◆ Tighten the screw just slightly—the nut must remain free to move.
- ◆ Align the side filament sensor with the front screw hole in the metal sheet and the handle.

KROK 40 Fixing the right side



- ◆ Przymocuj prawy uchwyt i boczny czujnik filamentu do prawego panelu używając drugiej śruby M3x8rT.
- ◆ Secure the side sheet metal to the printer using the 11 Nylon rivets.
- ◆ Insert the short PTFE tube 4 x 2.5 x 45 into the collet. Push it all the way in.
- ⓘ Part of the PTFE tube will remain protruding from the handle.

KROK 41 Left side: parts preparation



Do kolejnych etapów przygotuj:

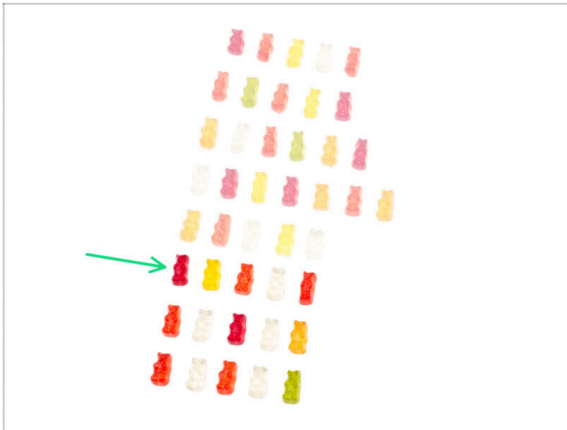
- Left side sheet metal (1x) *found in the Metal parts 2/3 package*
- Side Handle (1x) *found in the Printed parts package*
- Śruba M3x5rT (2x)
- Nit nylonowy (11x)

KROK 42 Installing the left side



- Wyrównaj uchwyt z gwintowanymi otworami w panelu.
- Attach the handle using the two M3x5rT screws.
- Secure the side sheet metal to the printer using 11 nylon rivets.

KROK 43 Czas na Haribo



- Dobra robota - nabierz sił na kolejne wyzwanie!
- Eat the sixth row.
- So close! But **hands off those last gummies!**

KROK 44 Gotowe

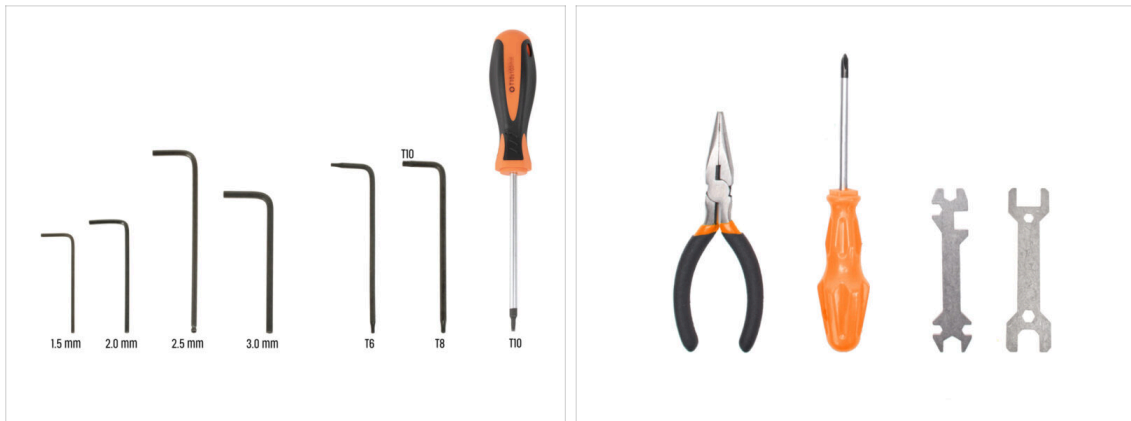


- Gratulacje! Właśnie pomyślnie zmontowaliśmy korpus drukarki.
- Let's move to the next chapter.

8. Listwy, drzwi i xLCD



KROK 1 Tools necessary for this chapter



Do kolejnych etapów przygotuj:

- Do kolejnych etapów przygotuj:
- 2.5mm Allen Key
- T10 Torx Key
- Needle-nose pliers

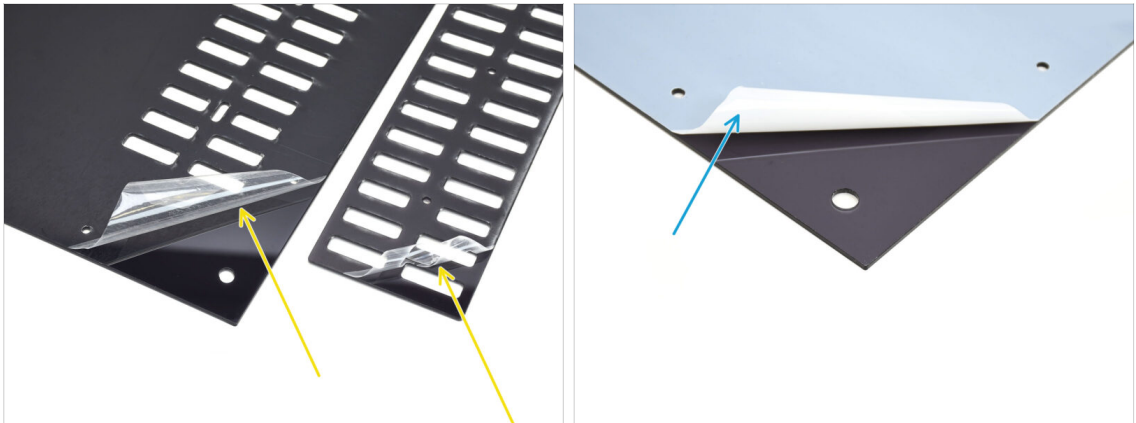
KROK 2 Top cover: parts preparation



Do kolejnych etapów przygotuj:

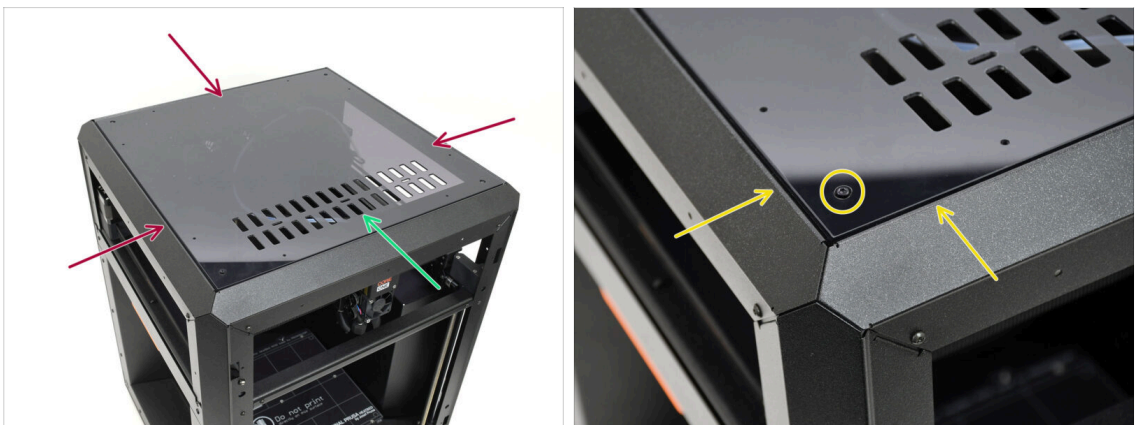
- Top cover (1x) *found in the Plexi set package*
- Vent cover (1x) *found in the Plexi set package*
- M3nN nut (3x)
- Insulating insert (3x) *found in the Electronics & Fasteners package*
- i** This part may come in either gray or black. However, the shape is identical, and it does not affect the procedure.
- M3x12rT screw (3x)
- Nylon rivet (4x)
- Upg-vent-block [zasuwa górnej kratki wentylacyjnej]

KROK 3 Removing the foil



- 🟡 Najpierw ściągnij folię ochronną z obu plastikowych paneli.
- 🟢 Flip the parts around and remove the protective foil from the other sides.

KROK 4 Test-fitting the top cover

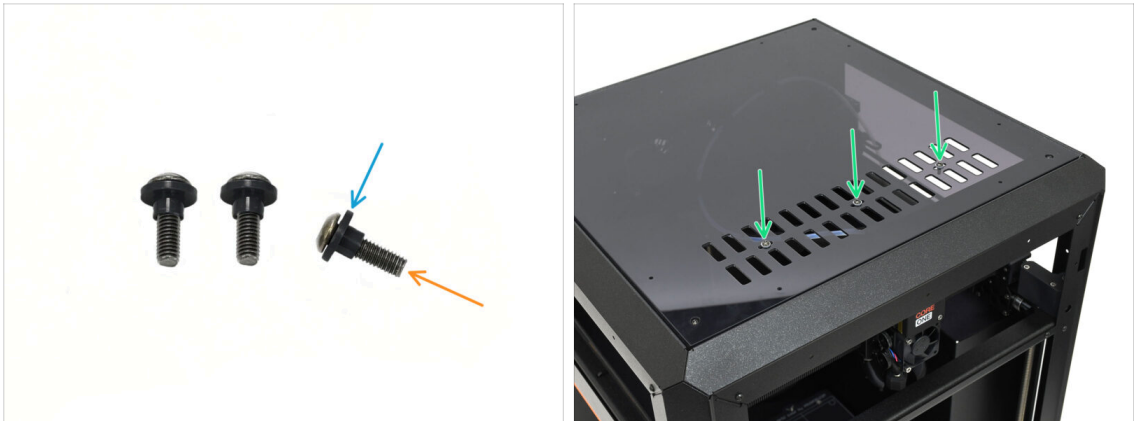


- 🔴 Połóż górną pokrywę na drukarce.
- 🟢 The part with the vent openings should be oriented towards the front of the printer.
- 🟡 If oriented correctly, the cover will align with the recess, and the bolt heads in the corners will fit into the cutouts.

📌 If the bolt openings don't align, flip the cover.

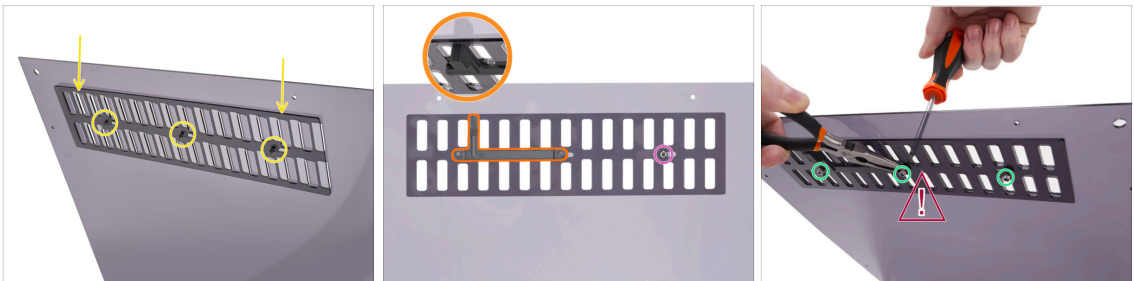
Spoiler alert: The cover isn't symmetrical!

KROK 5 Assembling the top cover I.



- Run all three M3x12T screws through the insulating inserts.
- Make sure the flanged part of the insert is oriented toward the screw head.
- Insert the screws with the inserts through the three slot openings in the vent.

KROK 6 Assembling the top cover II.



- Align the vent cover with the screw ends on the bottom.
- Hand-tighten the rightmost M3nN nut onto the M3x12rT screw to fix the cover in place.
- Attach the Upg-vent-block to the ventilation cover. Make sure that it is positioned correctly.
- Secure the Upg-vent-block on the ventilation cover with M3nN nuts. Use the needle-nose pliers to hold the nuts while tightening the screws.

⚠ The screw must be tight enough just to remove the slack. It must remain loose, or the ventilation cover won't open and close properly.

KROK 7 Testing the ventilation



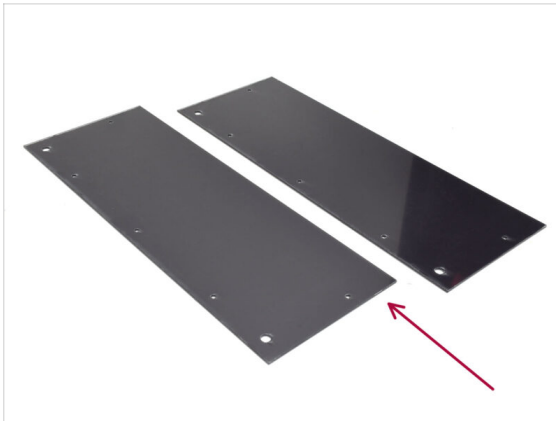
- ◆ Try moving one of the three screws with your hand.
- ⓘ The vent openings must open and close smoothly without effort.
- ⚠ If movement is difficult, loosen the screw that is restricting it.

KROK 8 Installing the top cover



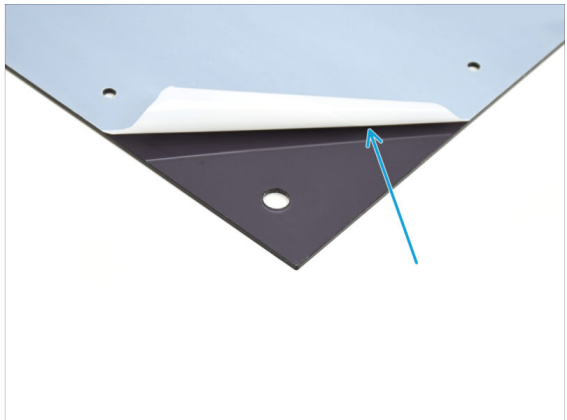
- ◆ Align the cover with the recess on the printer, ensuring the vent points forward.
- ◆ Secure the cover to the frame using four nylon rivets in the marked openings.
- ⓘ There are eight openings, but four rivets should be sufficient.

KROK 9 Side covers: parts preparation



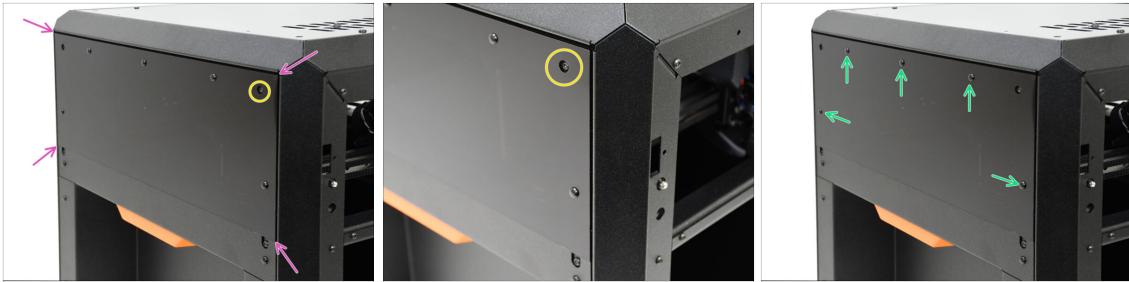
- For the following steps, prepare:
- Side Cover (2x) *found in the Plexi set package*
 - Nylon Rivet (10x)

KROK 10 Removing the foil



- Remove the protective foil from both the side covers.
- Remove the protective foil from the other sides of both the side covers.

KROK 11 Covering the left side



- ✎ Align the cover with the recess on the left side of the printer.
- ✎ The protruding screws on the printer must align with the larger openings in the cover.
- ✎ Secure the cover to the frame using five nylon rivets in the marked openings.

KROK 12 Covering the right side



- ✎ Align the other cover with the recess on the right side of the printer.
- ✎ Secure the cover to the frame using five nylon rivets in the marked openings.

KROK 13 xLCD: parts preparation



- For the following steps, prepare:
- xLCD (1x) found in the Electronics package
 - xLCD Front Cover (1x) found in the Printed parts package
 - xLCD Display-mount (1x) found in the Printed parts package
 - Knob (1x) found in the Printed parts package
 - 3x8sT Screw (4x)
 - Faston connector (1x) found in the Electronics package

KROK 14 Assembling the xLCD I.



- We recommend placing the front cover face down on a cardboard box edge or desk to create space for the encoder knob.
- Remove the protective foil from the xLCD.
- Insert the xLCD into the front cover.

KROK 15 Assembling the xLCD II.



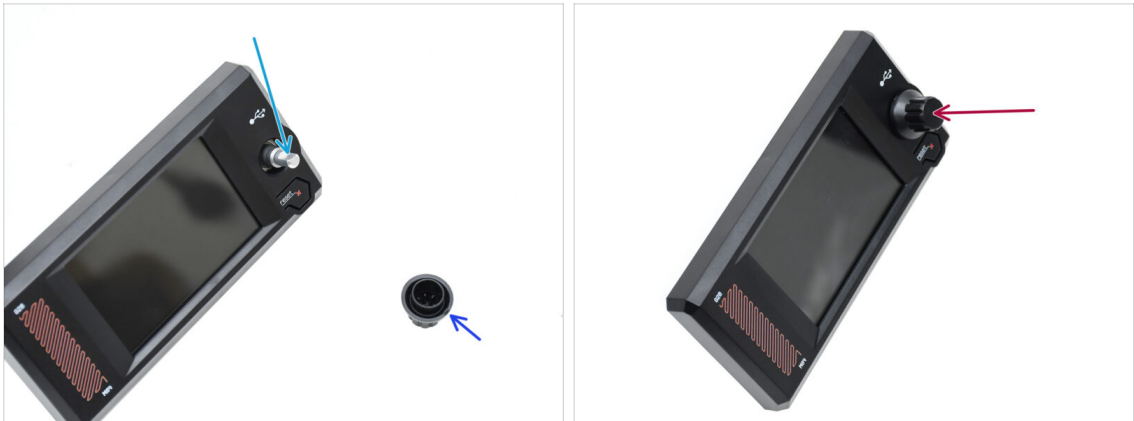
- Cover the assembly with the rear part.
 - If you have an older version of the printed rear cover, it must hook by the xLCD itself in the corner. With the up-to-date version, the rear part can be simply laid down.
- Fix the parts together using **JUST THREE** 3x8sT screws in the marked openings.
 - ⚠ Do not insert the screw into the fourth opening next to the long slot for the xLCD connector, visible through the cutout. Leave it empty for now.

KROK 16 Installing the FE Faston connector



- Let's move on to the fourth screw opening—this is where we will attach the grounding faston connector.
 - Using needle-nose pliers, carefully maneuver the grounding faston connector over the screw opening, ensuring the holes line up.
 - Secure the connector in place using one 3x8sT screw, making sure it stays lined up as indicated.
 - ⚠ To prevent damaging some of the surrounding electronic components, be careful and make sure the connector doesn't spin, while tightening it.

KROK 17 Installing the LCD knob



- There is a flat part on the encoder shaft. Rotate the encoder so that the flat part is facing up.
- There is a small gate scar on the injection-molded knob, which can serve as an orientation mark.
- Attach the knob onto the shaft, making sure the mark on the knob is facing up.

KROK 18 xLCD bezel: parts preparation



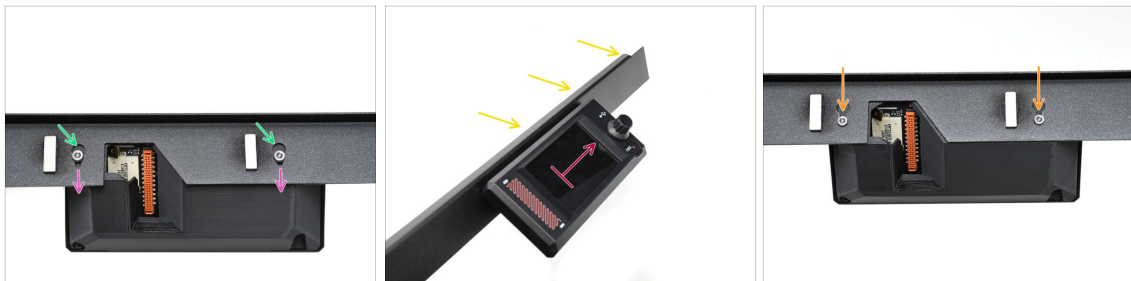
- **For the following steps, prepare:**
- xLCD (1x) *found in the Electronics package*
- M3nS nut (2x)
- M3x6 screw (2x)
- Bezel (1x) *found in the Metal parts 2/3 package*

KROK 19 Mounting the xLCD I.



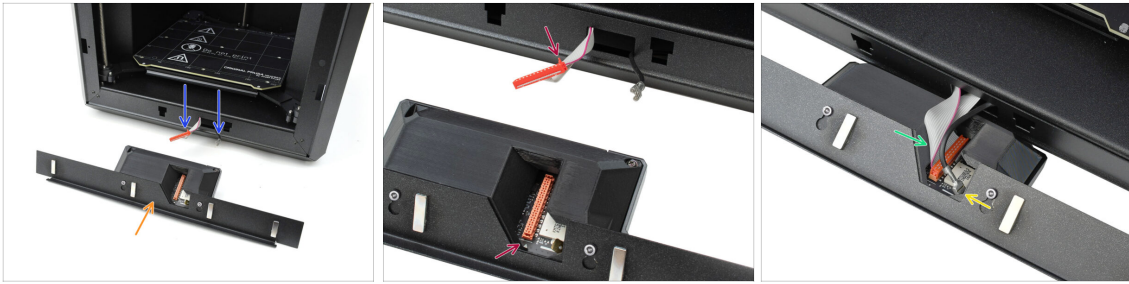
- Insert the two M3nS nuts into the dedicated openings on the back of the xLCD assembly,
- Push the nuts all the way in until the threads line up with the screw openings.
- Attach two M3x6 screws into the openings. Do not screw them all the way in.
- Leave a gap under the screw heads.

KROK 20 Mounting the xLCD II.



- Hook up the xLCD assembly onto the Bezel.
- Insert the screw heads into the keyhole openings.
- Slide the xLCD assembly so that the screw heads engage into the narrower parts of the keyholes.
- If assembled correctly, the LCD should be pointing up...
 - ...While the bent lip on the Bezel is on top.
- Push the screws all the way into the narrow part of the keyhole on both sides. Then, tighten the screws.

KROK 21 Installing the xLCD assembly



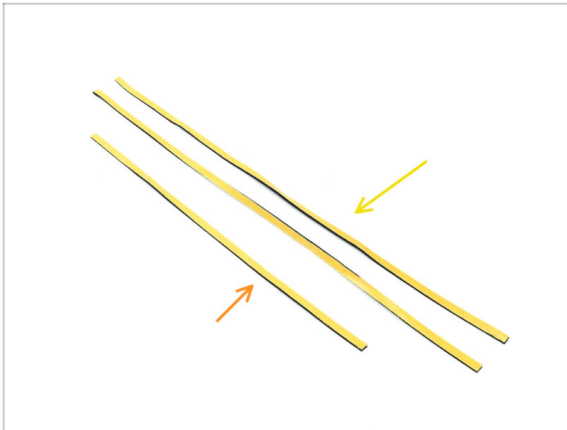
- ✦ Put the xLCD assembly in front of the printer, as pictured.
- ✦ Pull the appropriate cables out from the front of the printer to make connecting them easier.
- ✦ There is a small red tab on the main connector. This tab must be oriented towards the triangle symbol on the PCB.
- ✦ Connect the main connector into the xLCD.
- ✦ Connect the grounding faston connector.

KROK 22 Securing the xLCD assembly



- ✦ Gently lift the xLCD assembly into the upward position.
⚠ **Proceed carefully to ensure none of the cables get pinched or disconnected.**
- ✦ Hook the tiny tab on the left side of the bezel behind the left vertical profile of the printer.
- ✦ Gently lift the bottom part of the xLCD assembly to allow for smoother tab engagement and extra wiggle room.
- ✦ Hook the tab on the right side into the printer's right profile.

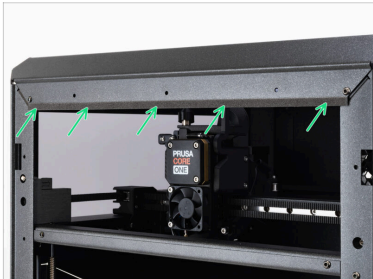
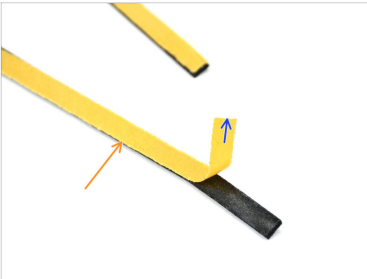
KROK 23 Door seal: parts preparation



For the following steps, prepare:

- Side door seal, a longer one (2x) found in the *Electronics & Fasteners* package
- Top door seal, a shorter one (1x) found in the *Electronics & Fasteners* package
- i The color of the protective layer may vary.

KROK 24 Attaching the top seal



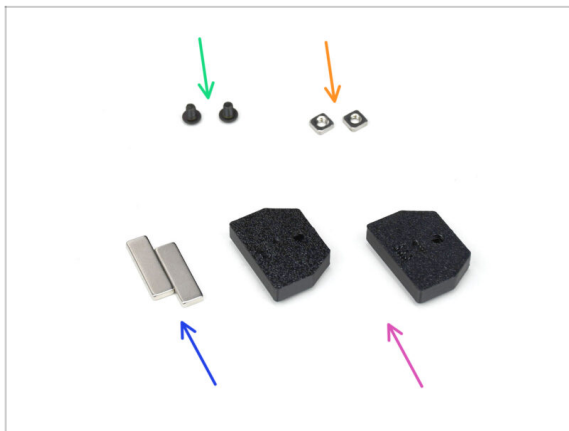
- Take the **SHORTER** seal.
- Peel off the start of the protective foil. No need to remove it entirely yet.
 - i No need to remove it entirely yet. For easier installation, you can peel it off gradually as you go.
- Start applying the seal along the top edge of the printer's frame.
 - Begin offset from the corner by a distance equal to the seal thickness.
- Apply the seal along the top edge, leaving the end offset from the corner, just like on the other side.

KROK 25 Attaching the side seals



- Apply the longer door seal, starting from the end of the seal on top.
- Work your way from the top down.
- ① With needle-nose pliers, trim the excess.
- Using the same technique, apply the remaining long seal along the left edge of the printer's frame.

KROK 26 Magnet holders: parts preparation



● For the following steps, prepare:

- M3x5rT screw (2x)
- M3nS nut (2x)
- 20x6x2 Magnet (2x) *found in the Electronics & Fasteners package*
- ⚠ **Keep the magnets apart at a sufficient distance. They can break each other!**
- Magnet Holder (2x) *found in the Printed parts package*

KROK 27 Assembling the magnet holders



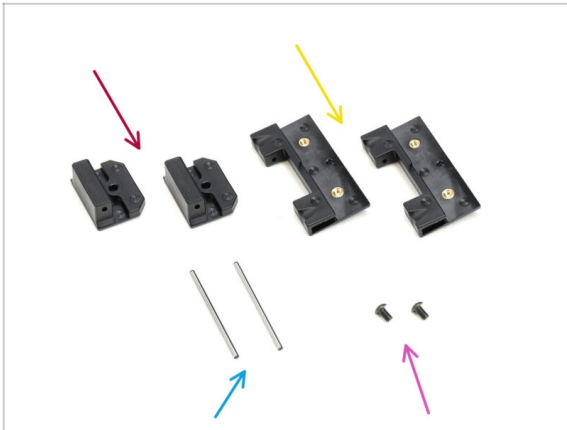
- ✚ Insert the M3nS nuts into the corresponding openings in the magnet holders.
- 🔴 Push the nuts all the way in, until the thread aligns with the screw opening.
- 🔵 Insert the magnets into the corresponding pockets in the holders. Push them all the way in.
- 📘 The orientation of the magnets does not matter.

KROK 28 Installing the magnet holders



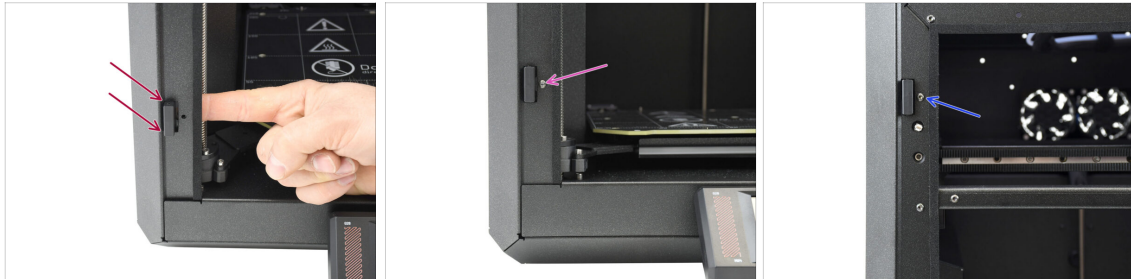
- 🟡 From the inside of the printer, insert the magnet holder assembly into the corresponding bottom opening in the right-side metal profile.
- ⚠️ Ensure the protruding rectangular pocket fits into the cutout.
- 🟢 Secure the assembly in place using the M3x5rT screw.
- 🔵 Using the same technique, install the other magnet holder into the top opening on the right side.

KROK 29 Hinges: parts preparation



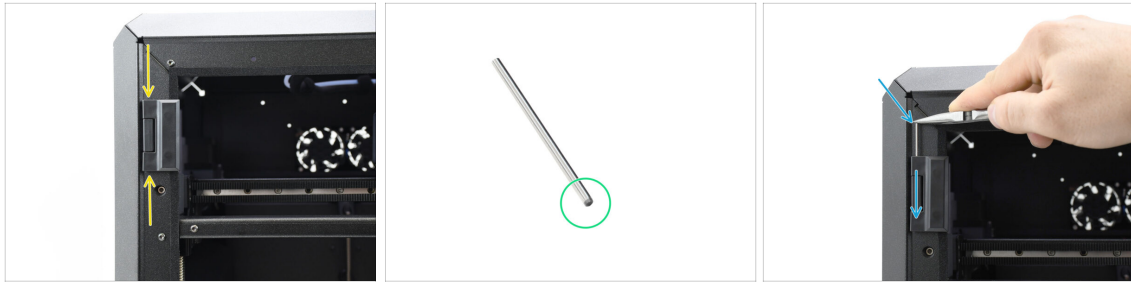
- For the following steps, prepare:**
- Door-hinge-in (2x) found in the CoreXY + Hinges set package
 - Door-hinge-out (2x) found in the CoreXY + Hinges set package
 - Hinge Pin 2 x 40 mm (2x) found in the Electronics & Fasteners package
 - M3x5rT screw (2x)

KROK 30 Installing the door-hinge-in parts



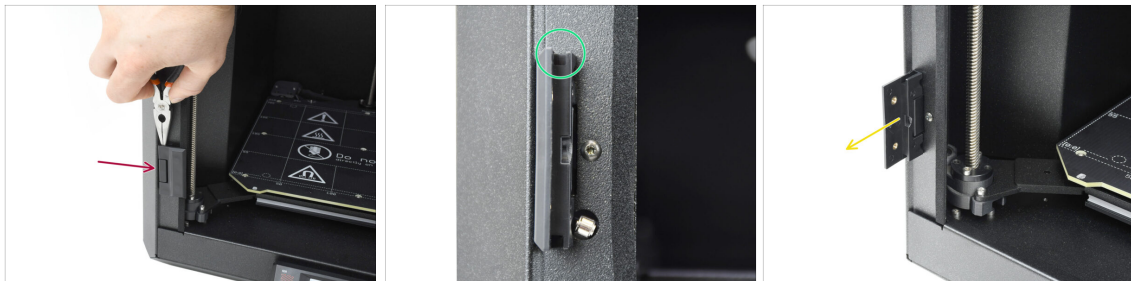
- From the inside of the printer, insert the door-hinge-in into the bottom rectangular opening in the left-side profile. The protruding part should pass through to the front.
- Fix the door-hinge-in in place using the M3x5rT screw.
- Using the same technique, install the other door-hinge-in into the opening on top.

KROK 31 Installing the door-hinge-out I.



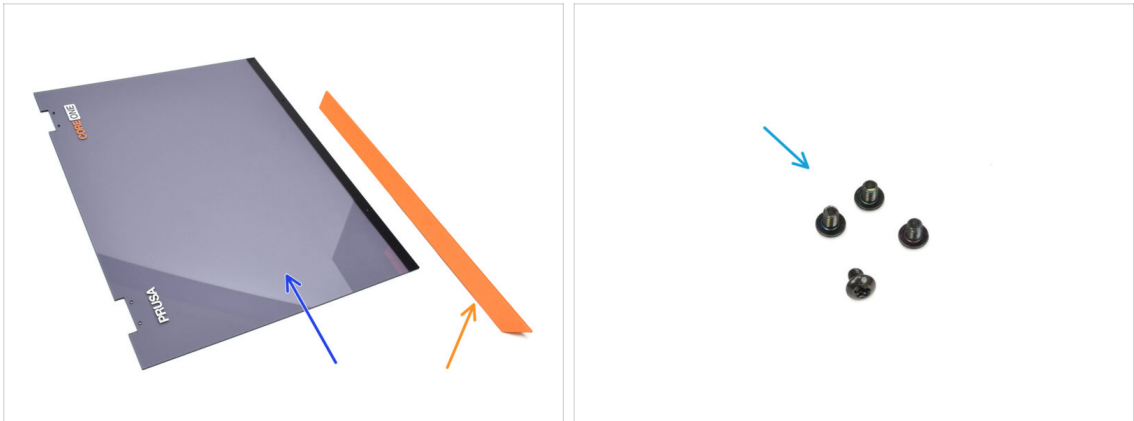
- ✦ Align the door-hinge-out with the door-hinge-in.
- ✦ The chamfered end of the hinge pin should be inserted first to make assembly easier.
- ✦ Insert the pin from the top of the door-hinge-out, guiding it through the door-hinge-in until it is fully inserted.
- ❗ Use the tip of needle-nose pliers to press the pin in securely.

KROK 32 Installing the door-hinge-out II.



- ✦ Using the same technique, install the bottom door-hinge-out to complete the hinge assembly.
 - ✦ Look into the grooves on the door-hinge-out parts and verify that the pins are fully inserted.
- No part of the pin should be visible above the bottom surface in the groove.
- ✦ Open up both the hinges.

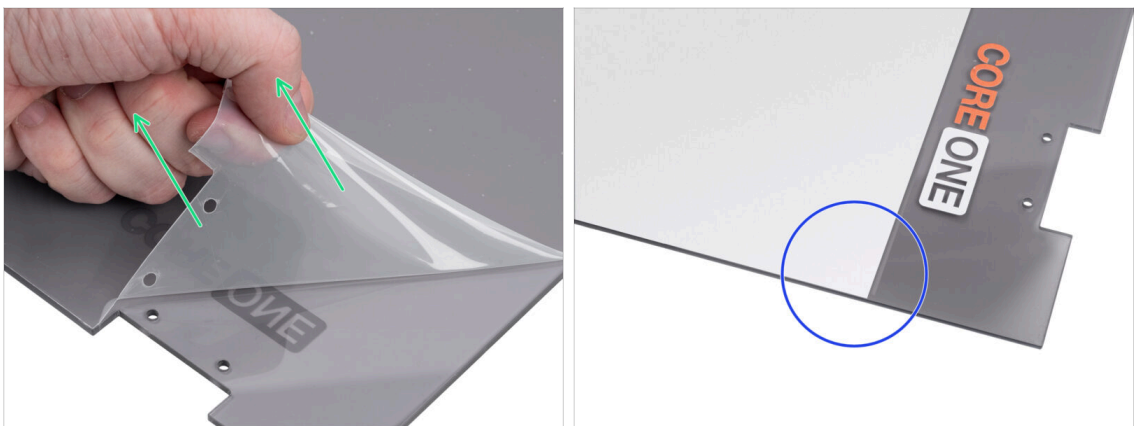
KROK 33 Door panel: parts preparation



■ **For the following steps, prepare:**

- Door (1x) *found in the Plexi set package*
 - ❶ The door panel is pre-labeled **CORE ONE**. Do not worry, **this is intended!** You will apply the upgrade + decal as the final step.
- Door handle (1x) *found in the Metal parts 2/3 package*
- M3x5rT screw (4x)

KROK 34 Door panel: removing the protective film



- **The door panel has protective film on both sides.** One covers the entire surface, the other just the center area.
- Peel off the film covering the entire door; it's lightly transparent.
- You can remove the center protective film (white) now or after mounting the panel to protect the surface during handling.
 - ❶ This protective film does not interfere with the installation of the hinges or handle.

KROK 35 Installing the door panel



- Align the door with the hinges. The cutouts on the door should fit into the grooves on top and bottom of the leaves.
- Make sure the door is oriented so that the signs on the door are pointing outward.
- Slide the door all the way into both the hinges.
- Fix the door to the hinges using four M3x5rT screws. Start with the top one. Then, do the bottom.

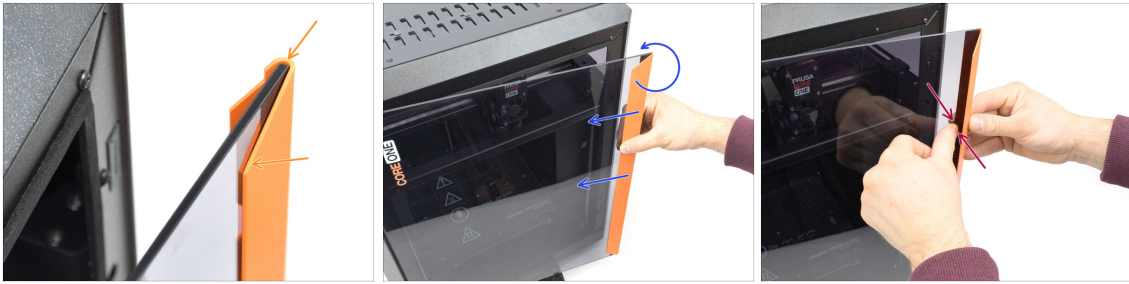
KROK 36 Assembling the door handle



- Let's move onto the handle. Remove the protective foil from both the adhesive strips on the inside.
- The part with the adhesive strip will go onto the back of the door. But do not attach the handle yet!

⚠ Wait for the upcoming step! We have to align the handle first!

KROK 37 Securing the door handle



- ✚ Align the handle so that the front chamfered part is flat to the door. The top of the handle must be flush with the door.
- ✚ While pushing the handle against the door to keep it aligned, slowly rotate it counterclockwise until the adhesive strips bond to the door.
- ✚ Push the door and handle together firmly in the adhesive strip areas to ensure a secure attachment.

KROK 38 Attaching the sticker: Parts preparation



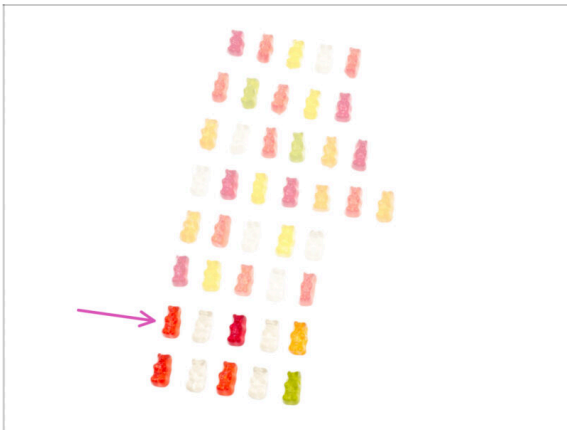
- ✚ For the following step, prepare:
 - ✚ CORE One+ plexi sticker
- ⓘ The CORE One+ plexi sticker is in the CORE One+ Upgrade box

KROK 39 Attaching the sticker



- Remove the sticker from the blue base.
- Align the sticker with the **ONE** and gently but firmly apply pressure on the sticker.
- Carefully peel off the transparent layer and make sure that + is not peeling off.

KROK 40 Haribo time



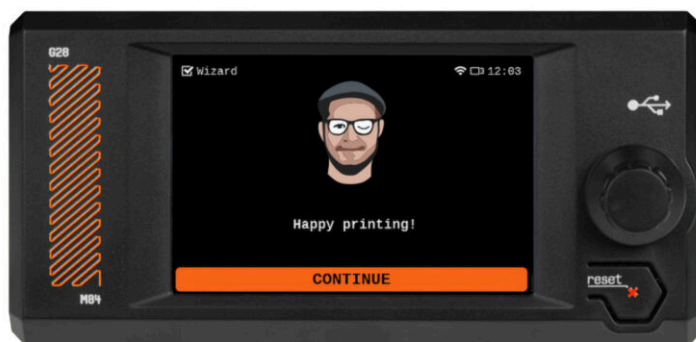
- Hard work deserves sweet results!
- Eat the seventh row.
- ⚠ But don't eat the rest yet.

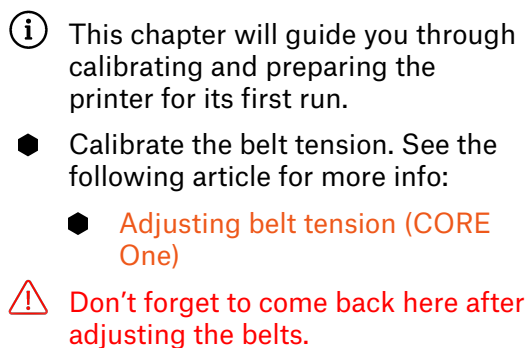
KROK 41 Gotowe



- ◆ Congratulations! You have successfully assembled your Prusa CORE One+.
- ◆ Let's move to the final chapter.

9. Calibration & First run





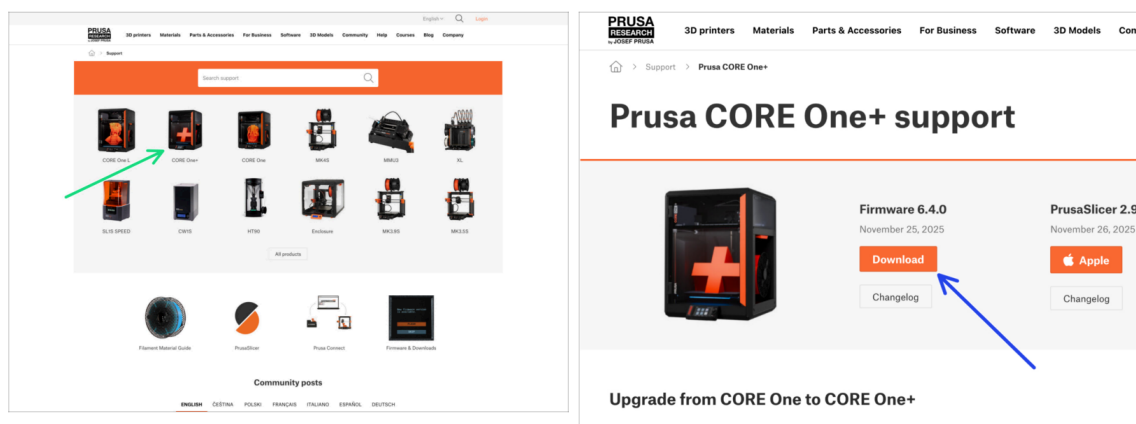
- Do kolejnych etapów przygotuj:
 - O-ring
 - Spoolholder-static [uchwyt szpuli - element stały]
- Element stały uchwytu szpuli [Spoolholder-static] i o-ring znajdują się w tym samym woreczku.

KROK 3 Przymocowanie płyty stołu i uchwytu szpuli



- ⚠ **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.
- 🟡 Załóż o-ring na element stały uchwytu.
- 🟡 Wciśnij stały element uchwytu na krążek [Puck-universal] i zablokuj, przekręcając w prawo.

KROK 4 Pobieranie firmware



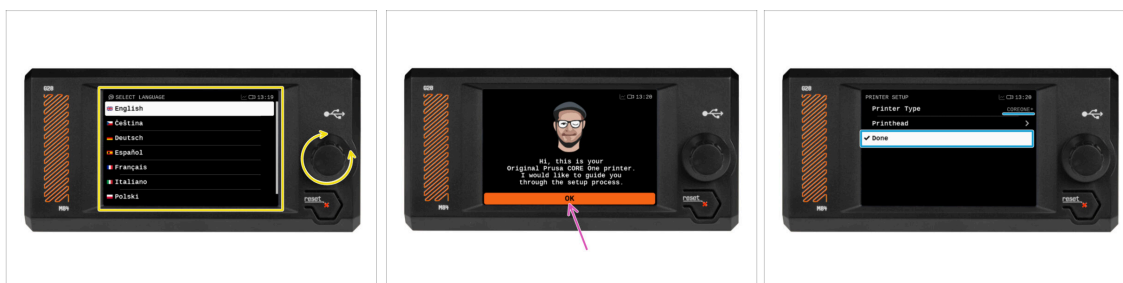
- ⬛ We will have to upgrade the firmware.
- 📄 **CORE One+ wymaga firmware w wersji 6.4.0 lub nowszej.**
- 🟡 Otwórz **stronę wsparcia dla CORE One+ na help.prusa3d.com.**
- 🟡 Download the latest firmware file (.bbf). Save the file onto a USB drive.

KROK 5 Włączenie drukarki



- ✿ 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.
- ✿ Jeśli pojawi się ekran "New firmware available" [Dostępna jest nowa wersja firmware], naciśnij **FLASH** przy pomocy pokrętki, aby zaktualizować oprogramowanie do najnowszej wersji.
 - ✿ Jeśli taki komunikat nie zostanie wyświetlony, oznacza to, że w drukarce jest już zainstalowana najnowsza wersja. Przejdź do następnego kroku.

KROK 6 Konfiguracja drukarki: 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 **COREONE**. Hit **Done** to continue.

KROK 7 Konfiguracja drukarki: Połączenie sieciowe



- 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.
- 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.

KROK 8 Asystent: Intro



- ① 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.
- Hit **YES** to begin the self-test and follow the instructions on screen.
- ⚠ 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.
- The printer will begin by testing all the fans. **Be aware—it can get quite noisy for a while!**

KROK 9 Asystent: Kalibracja czujnika drzwi



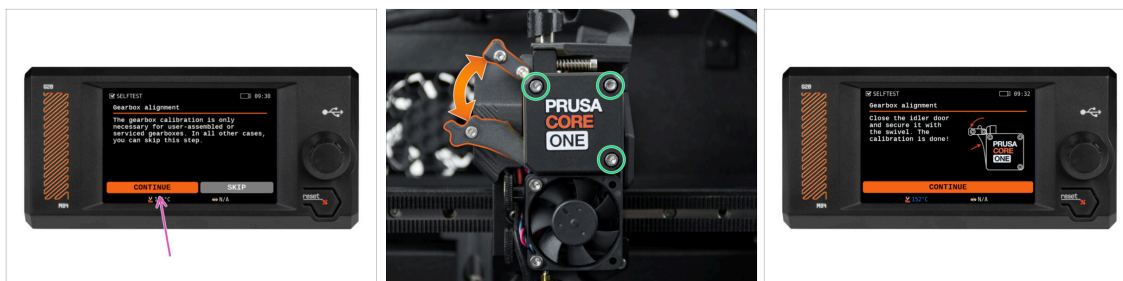
- ✿ The first part that requires your interaction is the door sensor calibration. To begin, hit **Calibrate** and follow the on-screen instructions.
- ✿ You'll be prompted to gradually tighten the sensor tension screw from its default loose position - usually in half-turn steps, possibly several times during calibration.
 - ✿ After each adjustment, observe the door sensor switch emerging from the front profile hole.
- ✿ Repeat the procedure until the door sensor is correctly adjusted - meaning it switches at a hand-gap distance. Then hit **Continue**.
- ❗ Once the sensor is properly calibrated, you should hear an audible click from the door sensor area when opening and closing the door.

KROK 10 Asystent: test tensometru



- ✿ 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**.
- ❗ 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**.

KROK 11 Asystent: osiowanie przekładni



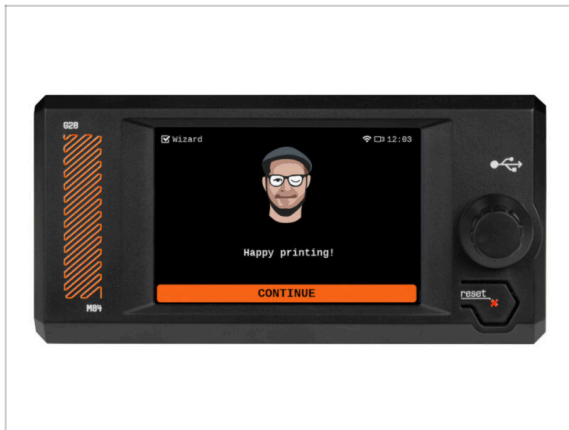
- ✦ Once you get to the Gearbox Alignment part, select **Continue** and follow the on-screen instructions.
- ✦ Make sure the idler lock (swivel) is unlocked from the idler door.
- ✦ Loosen the three screws on the front of the gearbox by 1.5 turns.
- ❗ The printer will go through the automatic gearbox alignment. This process can't be seen from the outside.
- ⬛ Once prompted, tighten the three screws in the pattern indicated on the screen.

KROK 12 Asystent: kalibracja czujnika filamentu



- ✦ Przesuń przełącznik kilka razy, aby go przetestować, a następnie **ustaw w pozycji włączonej**.
- ✦ 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.
- ⬛ Wyciągnij filament po zakończeniu kalibracji.

KROK 13 Koniec pracy Asystenta



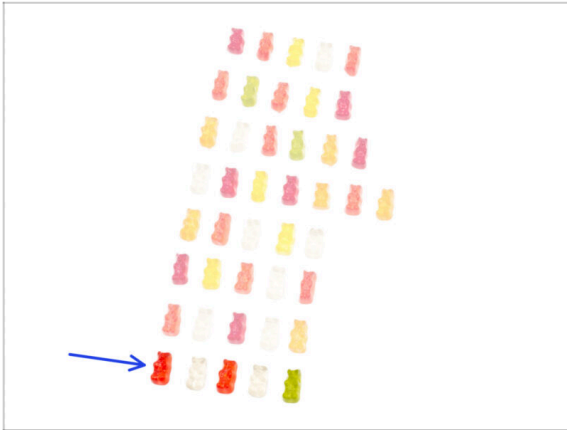
- ◆ Congratulations! The Wizard is complete. Now it's time to test some prints.

KROK 14 Ustawienie drukarki



- ◆ Aby włączyć automatyczne otwieranie górnej kratki, przejdź do **Ustawienia -> Sprzęt -> Sterowanie wentylacją komory** i ustaw **Auto**.

KROK 15 Czas na Haribo



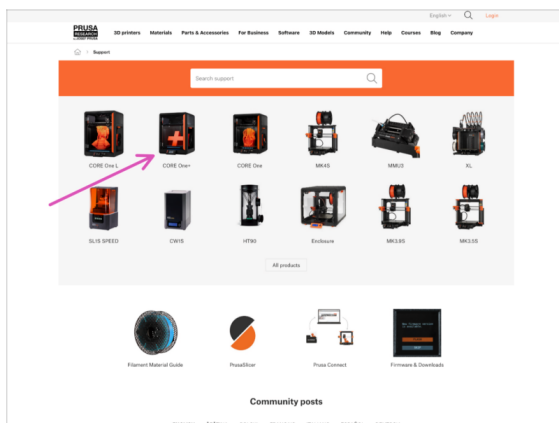
- 🛡️ Victory tastes like gummy bears!
- 🔵 Enjoy the rest. You've earned this.

KROK 16 Podręcznik



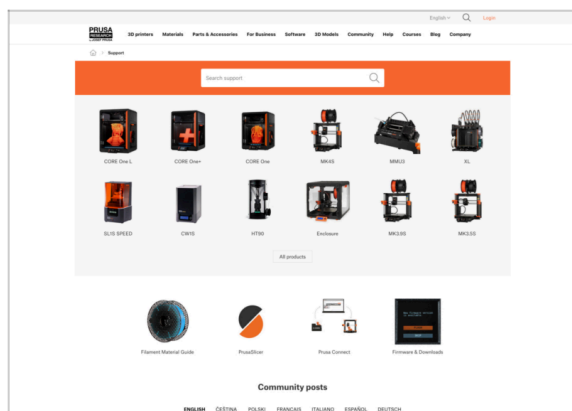
- 🛡️ Read the **3D Printing Handbook** dedicated to your printer and follow the instructions to set up the printer and prepare it for your first print.
- 📌 The latest version is always available at help.prusa3d.com.
- ⚠️ Read the **Disclaimer and Safety instructions** chapters.

KROK 17 Aktualizacja Firmware



- ❗ Wszystkie drukarki wysyłamy z pamięcią USB z najnowszym firmware. Zalecamy jednak sprawdzenie i ewentualną aktualizację oprogramowania co kilka tygodni.
- 🛒 Visit the help.prusa3d.com page.
- 🌸 Przejdź do strony Prusa CORE One+.
- 🛒 Save the firmware file (.bbf) onto the bundled USB drive.
- 🔵 Podłącz pamięć USB do drukarki. Następnie, po wyświetleniu monitu, wybierz FLASH na wyświetlaczu.

KROK 18 Baza Wiedzy Prusa

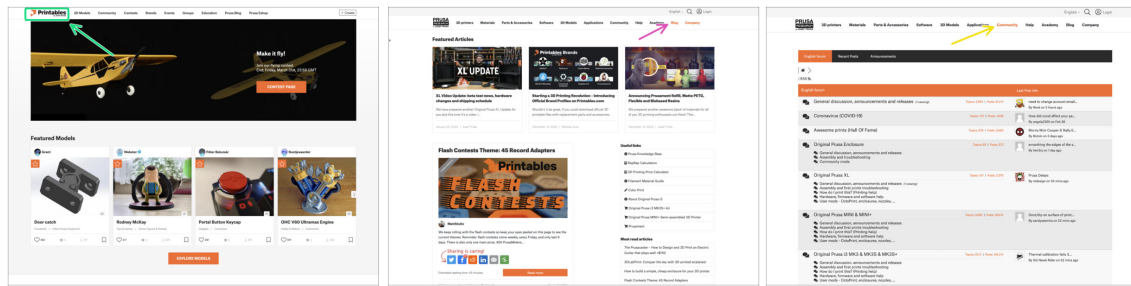


If you encounter any problems at all, don't forget you can always check out our knowledge base at help.prusa3d.com



We're adding new topics every day!

KROK 19 Dołącz do 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 :-)
- i All Prusa services share one user account.

Lista zmian w instrukcji



KROK 1 Version history



- **Versions of the Prusa CORE One+ conversion kit 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.

[illegible]

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.

