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1A. Úvod



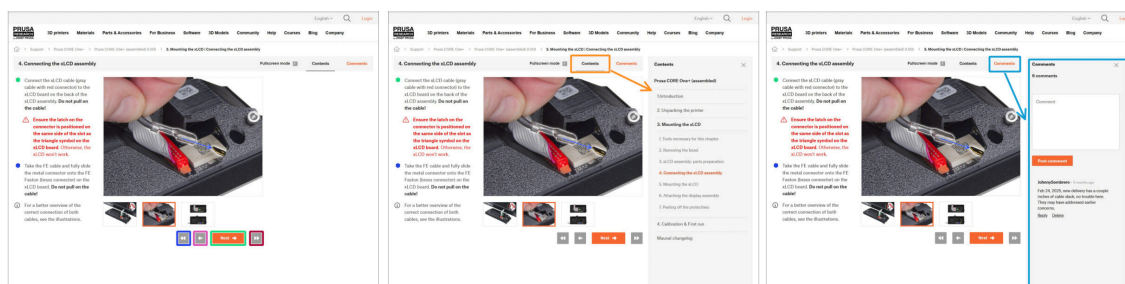
KROK 1 Informace o návodu



- 🛡️ Vítejte v průvodci konverzí vaší Prusa MK4S na CORE One+.
- 🛡️ Please prepare the upgrade kit received from Prusa Research.
- 🛡️ V první části návodu si zkontrolujeme důležité komponenty vaší původní MK4S a rozebereme ji.

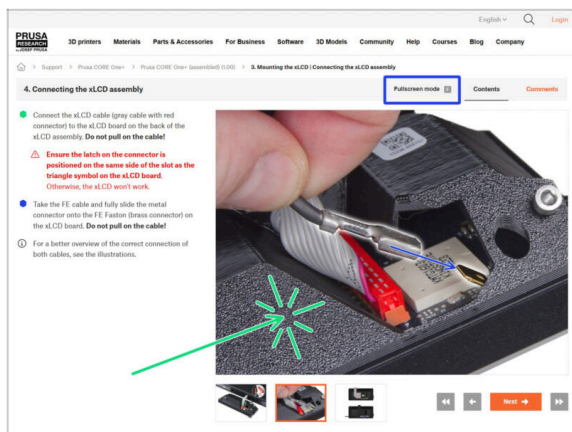
Pak pár komponent předěláme a v poslední části se samozřejmě pustíme do samotného upgradu na CORE One+.

KROK 2 How to navigate through the manual



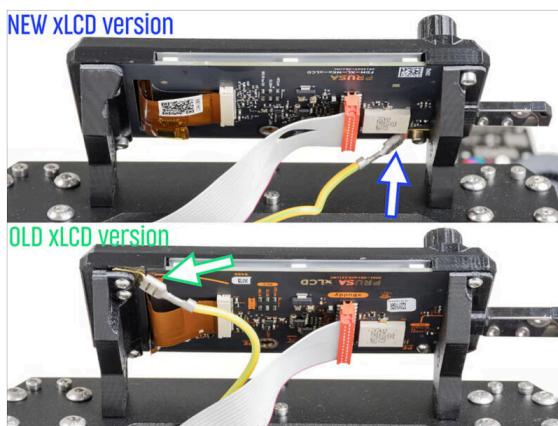
- 🛡️ Use the graphical navigation buttons in the bottom right corner or the arrow keys on your keyboard:
- ➡️ **Next button / Right arrow key** - Moves to the next image, or to the next step if it's the last image in the step.
- ⬅️ **Left arrow button / Left arrow key** - Moves to the previous image,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



⚠ **Na CORE One+ lze konvertovat pouze model MK4S!**

Pokud máte starší model tiskárny Original Prusa, je nutné jej nejprve upgradovat na MK4S a až pak provést konverzi na CORE One.

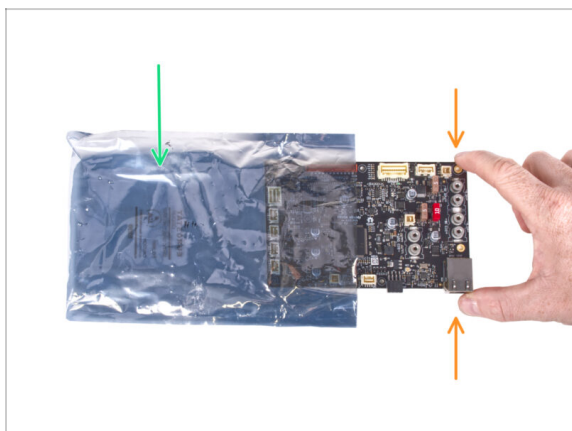
i There are two versions of the conversion package, depending on the xLCD version in your MK4S printer.

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

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

■ Další informace naleznete v poznámkách ke kompatibilitě na [e-shopové stránce CORE One+ Conversion](#).

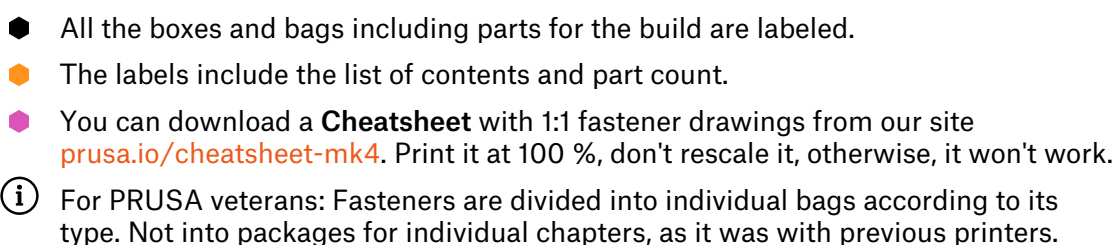
KROK 5 Důležité: Ochrana elektroniky



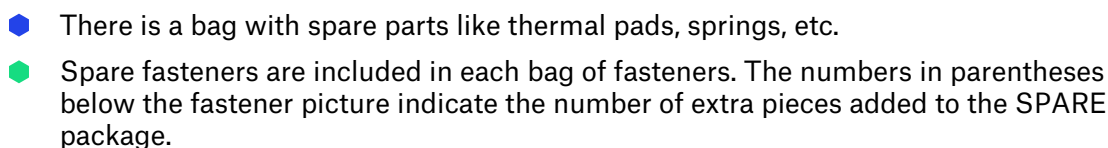
⚠ WARNING: Make sure to **protect the electronics against electrostatic discharge (ESD)**. When possible, always unpack the electronics right before you need them.

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 7 Záložní materiál



KROK 8 We are here for you!

The screenshot shows the Prusa 3D printer assembly instructions page for 'Connecting the xLCD assembly'. The page includes a list of steps, a video player, and a comments section. A red box highlights the 'Comments' tab and a comment by 'JohnnyBumbers'. A red arrow points from the 'Chat now' button in the bottom right corner to the 'SUBMIT' button in the comments section.

- 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



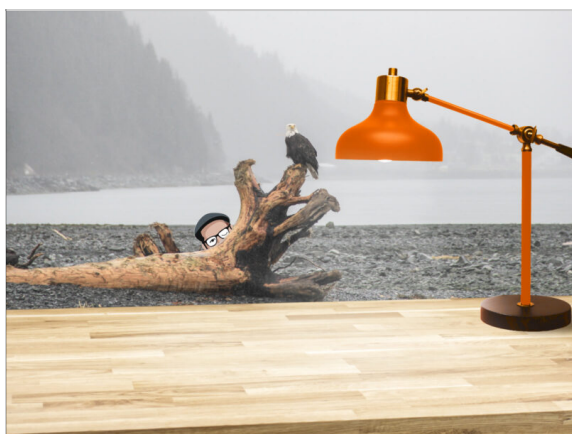
- 3D printed parts are very precise, however, there still might be a tolerance in the printed part and the same goes for the size of the nut.
- Therefore it might happen, that the nut won't fit easily in or might be falling out. Let's see, how to fix it:
 - **Nut won't fit in:** use a screw with a thread 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 Adaptér na promazávání ložisek



- ◆ 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 Připravte si pracovní stůl



- ◆ 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. Kontrola MK4S



KROK 1 Úvod



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

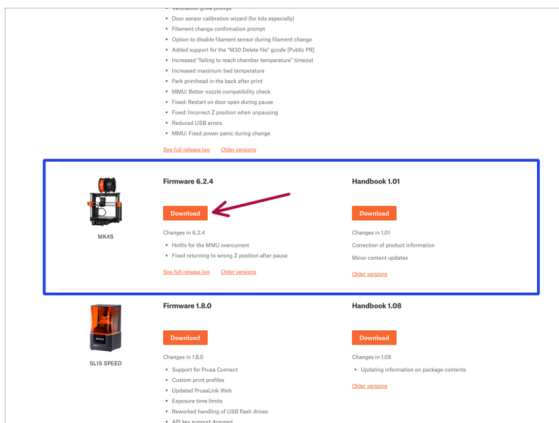
This chapter will guide you through a visual inspection of these parts. If you find any in poor condition, you'll have enough time to order replacements while still using the printer.

⚠ 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 Aktualizace firmwaru



- 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 Příprava tiskárny 2



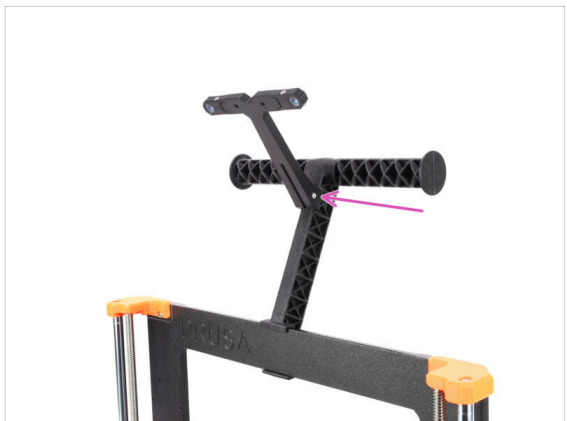
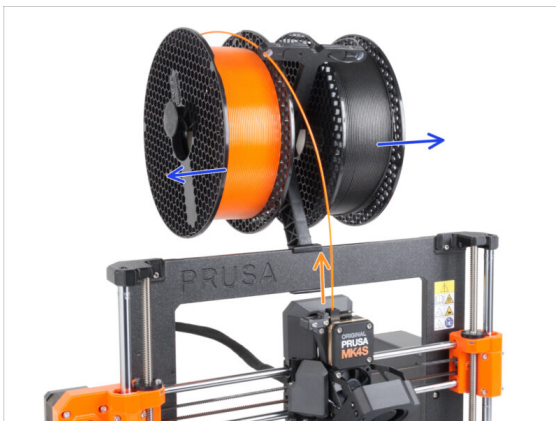
Before you start, do the following:

- Posuňte sestavu osy X přibližně do výšky 2/3 tak, aby:

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 Příprava tiskárny 2



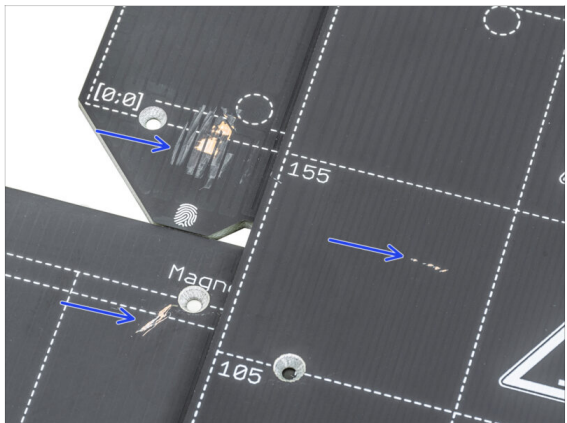
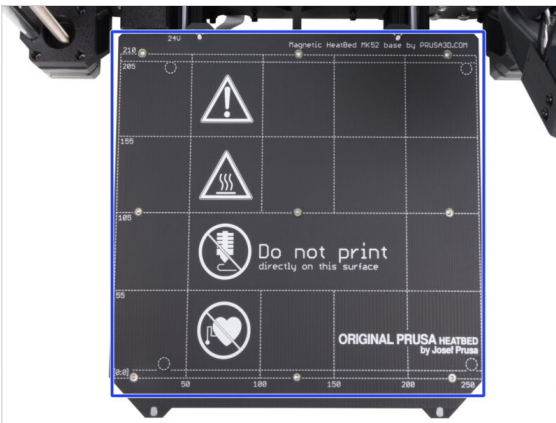
- Unload a filament, if it is loaded.
- i** Menu Filament > Unload filament
- Remove the filament spools.
- Remove the spool holder.

KROK 5 Příprava tiskárny 3



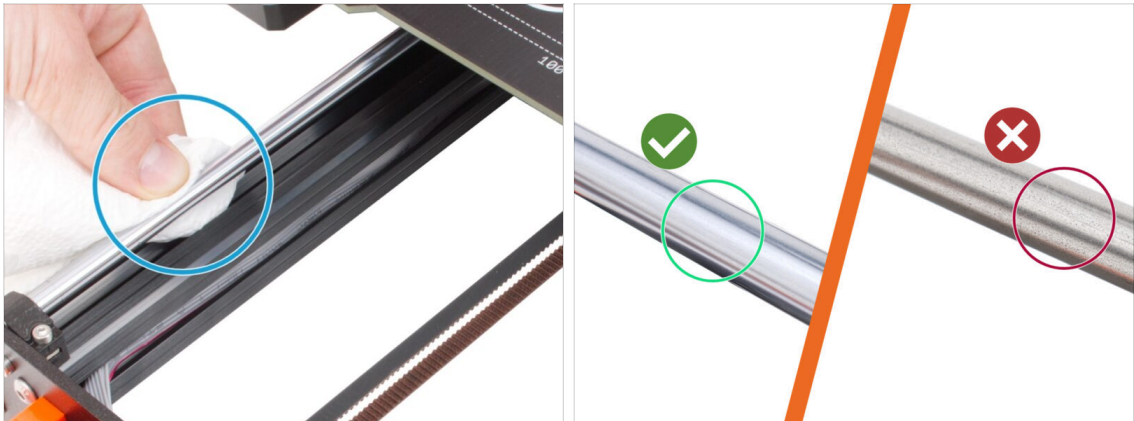
- Turn off your printer and disconnect it from the power.
- Remove the print sheet and save it for later use.

KROK 6 Kontrola vyhřívané podložky



- 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 tyčí osy 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.**

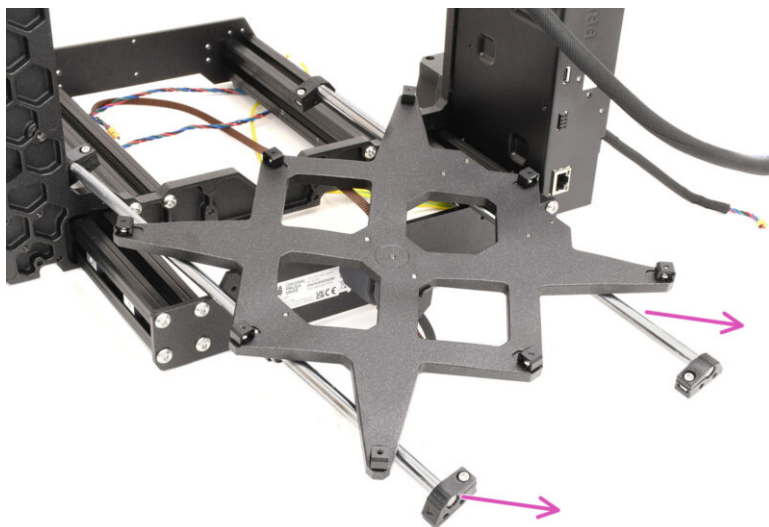
KROK 9 Začínáme



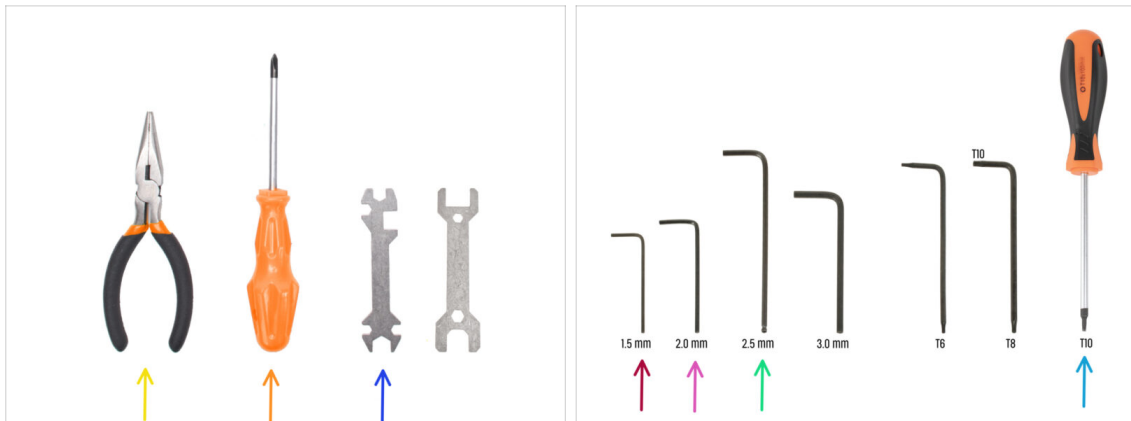
- Got everything checked? Great! Let's begin disassembling the printer.

Proceed to the next chapter.

1C. Rozebrání tiskárny



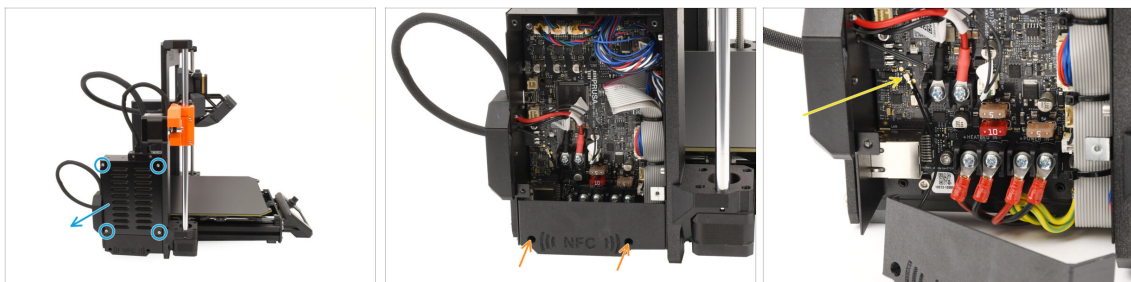
KROK 1 Potřebné nástroje



● For this chapter, please prepare:

- Čelistové kleště
- Křížový šroubovák
- Univerzální klíč
- 1,5mm inbusový klíč
- 2mm inbusový klíč
- 2,5mm inbusový klíč
- Šroubovák T10

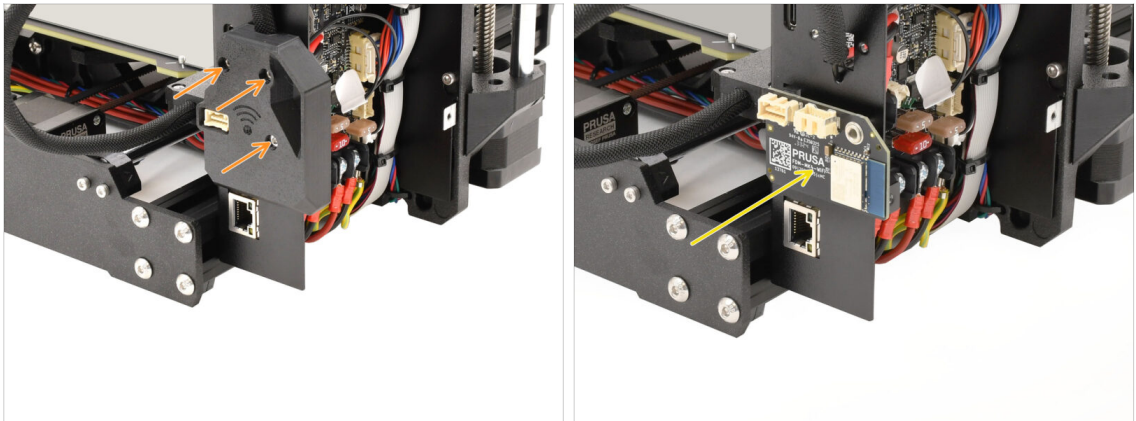
KROK 2 Demontáž elektroniky



- 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.

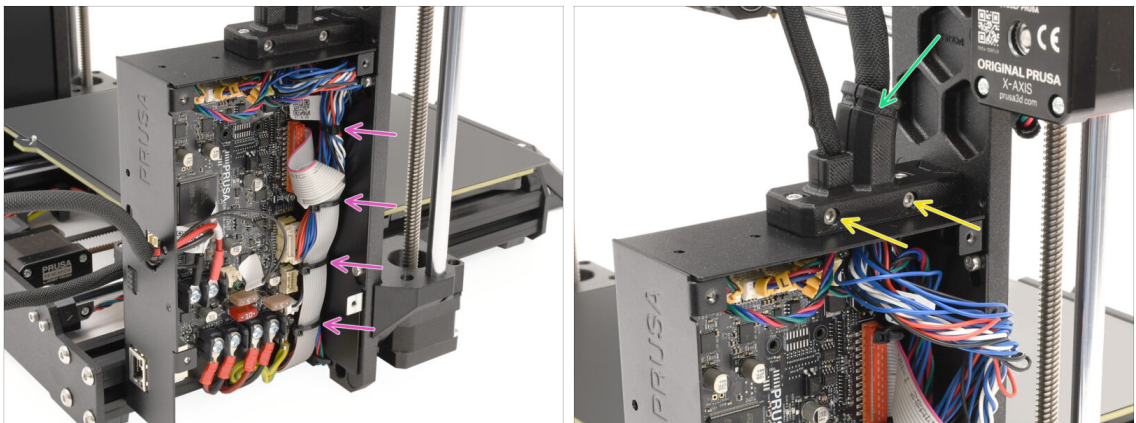
Then, remove the antenna along with the cover.

KROK 3 Demontáž Wi-Fi



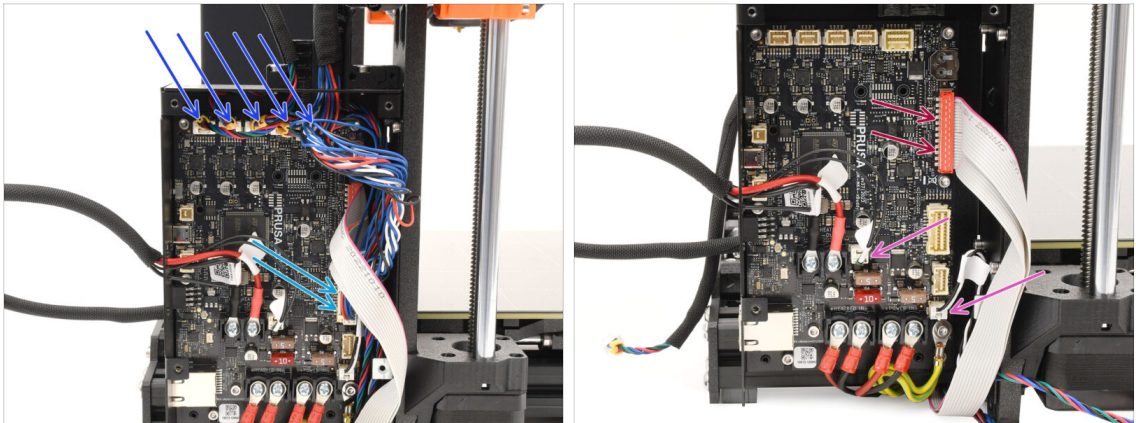
- ✚ On the back of the electronics box, remove the three screws holding the Wi-Fi cover and remove the cover.
- ✚ Remove the Wi-Fi module and **save it for later use**.
 - ⚠ Ensure you store the module and all electronic components in an ESD-safe environment to prevent damage!

KROK 4 Rozebrání kabelového svazku



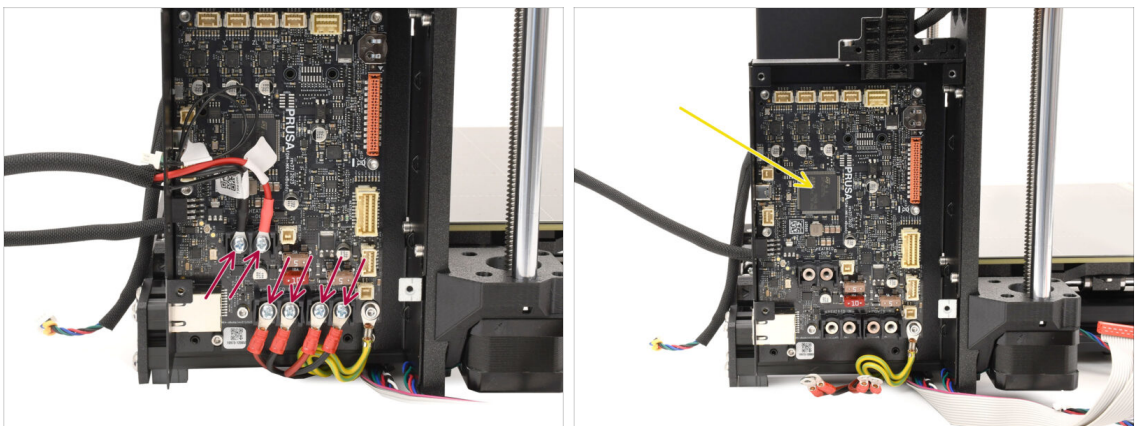
- ✚ Remove all the zip-ties securing the cable bundle inside the xBuddy box.
 - ⚠ When cutting the zip-ties, proceed carefully to prevent any damage to the cables or the electronics!
- ✚ Remove the two screws on the main cable holder.
- ✚ Cut the zip-tie holding the cover together, then remove the outer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

KROK 5 Odpojení kabelů 1



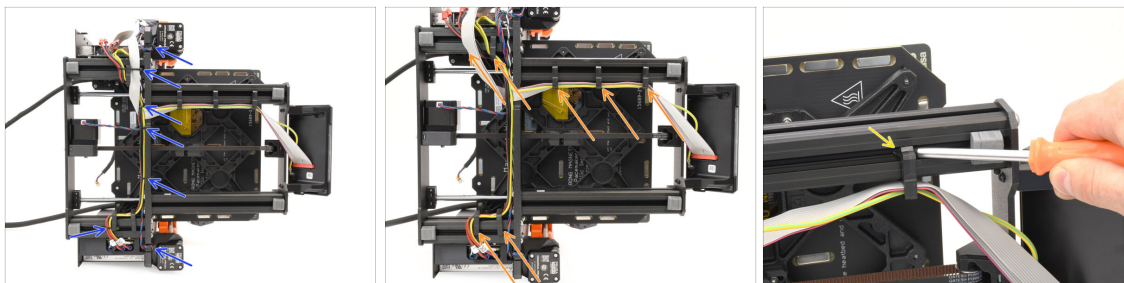
- ◆ Disconnect all the connectors on the top of the xBuddy board.
 ⚠ There is a safety latch on each of these connectors, which must be pressed in order to disconnect it.
- ◆ Disconnect the extruder main cable connector.
- ◆ Disconnect the heatbed thermistor and power panic cables.
- ◆ Disconnect the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

KROK 6 Odpojení kabelů 2



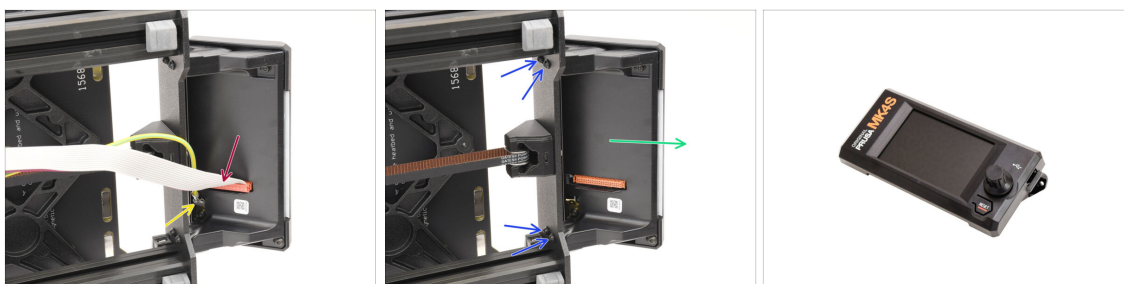
- ◆ Using the Phillips screwdriver, remove all the terminal screws holding the heatbed and power cable connectors.
- ◆ Leave the xBuddy board in the electronics box for now, as this way, it is well protected from damage.

KROK 7 Povolení svazku kabelů



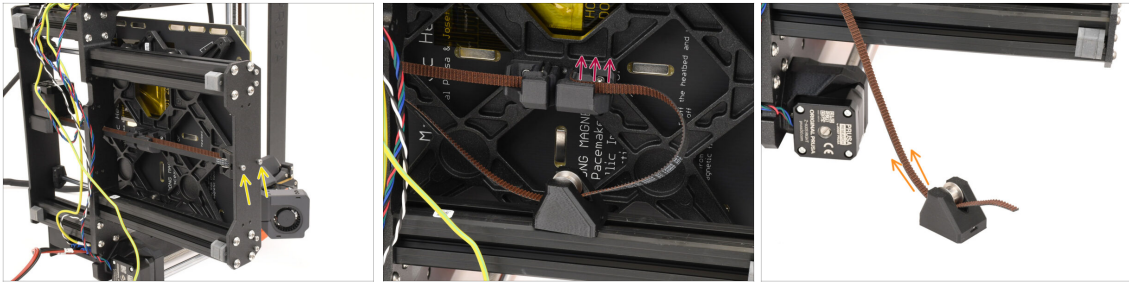
- Lay the printer onto the PSU side to access the bottom part.
- Carefully remove all the zip-ties holding the cable bundle
- Remove all the cable holders from the frame and detach them from the cables.
 - Pro tip: You can pry them off the metal profiles using the screwdriver.

KROK 8 Odstranění xLCD



- 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 Odstranění idleru



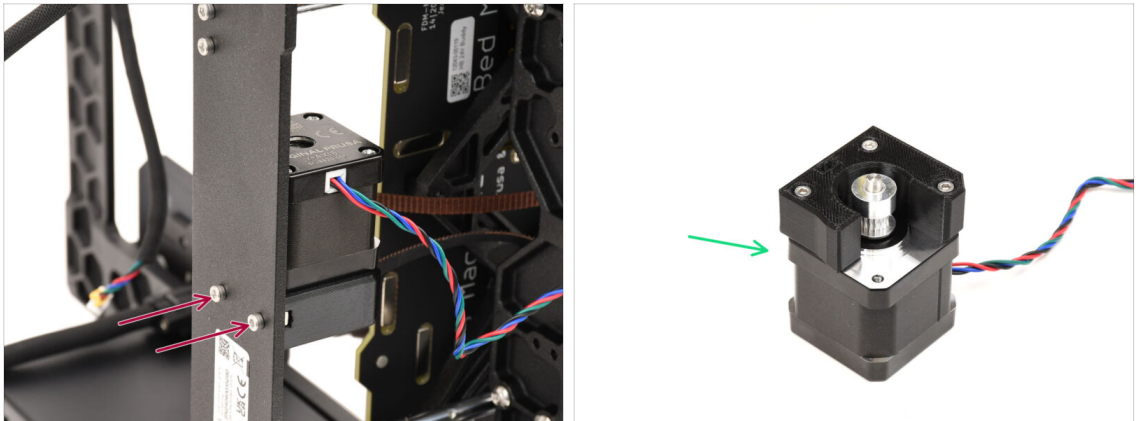
- ✦ Using the 2.5mm Allen key, remove the two screws holding the Y-Axis Idler on the front plate.
- ✦ Pull the end of the Y-axis belt out of the holder at the bottom of the heatbed to disengage it.
- ✦ Remove the belt from the idler by pulling it out.

KROK 10 Odstranění řemeničky idleru



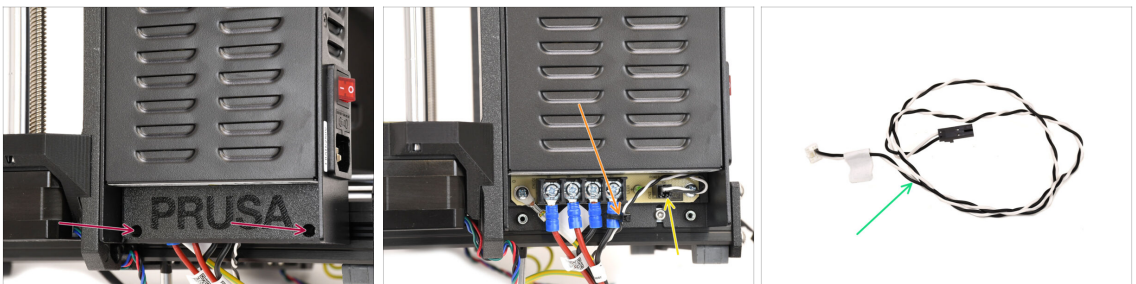
- ✦ Orient the Y-Idler as shown in the picture.
- Remove the pulley by first moving it inward, then pulling it out to the side.
- Refer to the groove pattern in the picture for the correct trajectory.
- ✦ Remove the center shaft from the pulley.
 - ✦ **Save the pulley for later use.**

KROK 11 Odstranění motoru osy Y



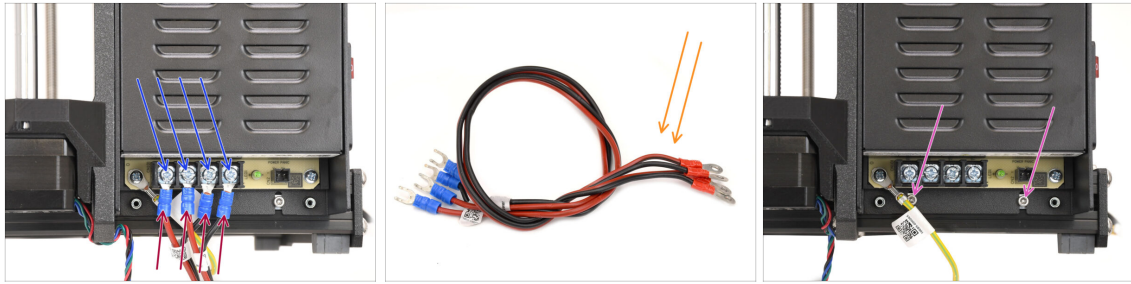
- 🔴 Vyšroubujte dva šrouby na zadní straně tiskárny, které drží motor osy Y na místě.
- 🟢 Remove the Y-axis motor assembly and **save it for later use**.

KROK 12 Power Panic Cable Removal



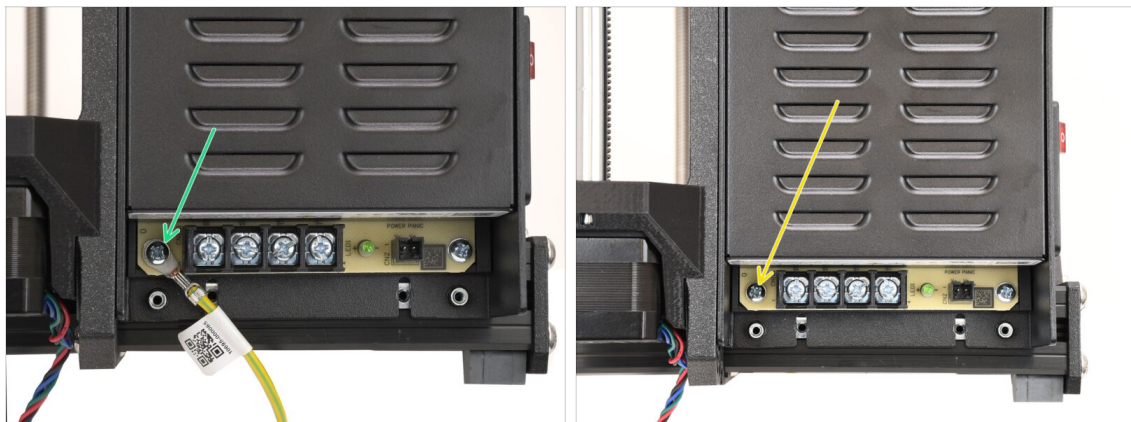
- ⬛ Přesuňme se na pravou stranu kostry tiskárny, kde se nachází zdroj napájení
- 🔴 Remove the two screws securing the cover, then take off the cover.
- 🟠 Carefully cut off the zip-tie holding the power panic cable.
- 🟢 **Save the power panic cable for later use.**
- 📘 (i) Váš kabel power panic může vypadat jinak, v závislosti na verzi desky xBuddy.

KROK 13 Vyjmutí napájecích kabelů



- ◆ Pomocí křížového šroubováku povolte čtyři šrouby svorkovnice. Neodstraňujte je úplně.
- ◆ 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 Odstranění zdroje napájení 1



- ◆ Vyšroubujte šroub, kterým je uzemňovací kabel připojen ke zdroji napájení.
- ◆ Disconnect the grounding cable—it will no longer be needed.
- ◆ Re-install the screw you previously removed.

KROK 15 Odstranění zdroje napájení 2

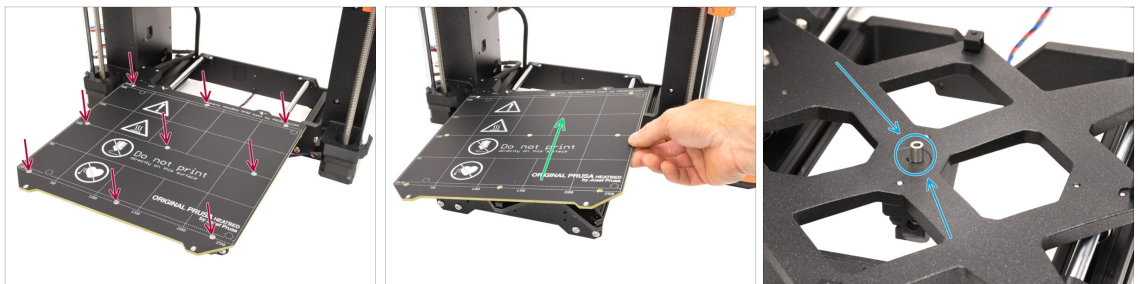


- On the front of the frame, remove the two screws holding the PSU.

⚠ The PSU might fall off to the side!

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

KROK 16 Odstranění vyhřívané podložky



- Let's move onto the heated bed.

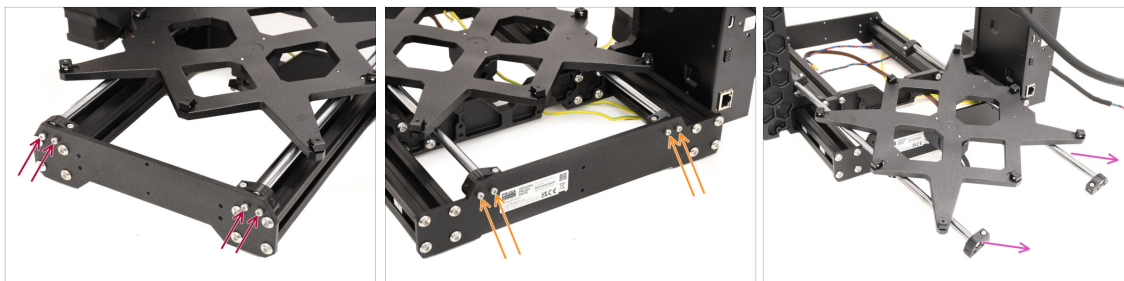
- Using the T10 Torx screwdriver, remove all 9 screws holding the heated bed.

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

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

📌 Postupujte opatrně a vyhřívanou podložku si odložte na měkký povrch, aby se nepoškrábala.

KROK 17 Odstranění osy Y



- 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 Demontáž osy Y



- 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 Odstranění ložisek



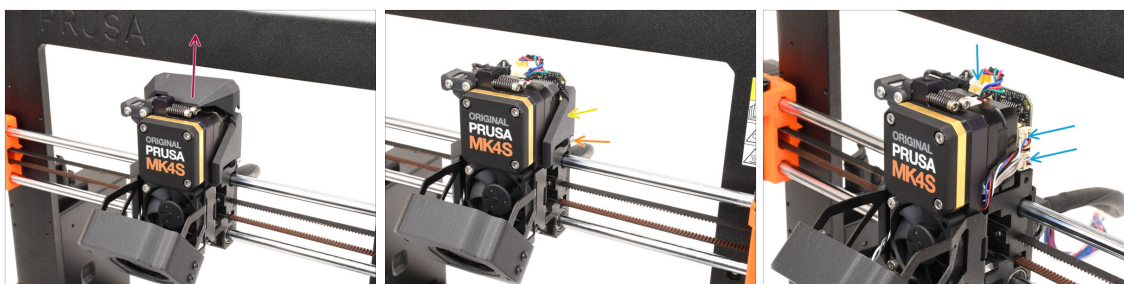
- ◆ Remove all three bearings from the bearing holders.
- ◆ Clean the bearings from any excess grease or dirt, and **save them for later use**.
- ❗ Pro stavbu CORE One+ budou použita dvě ložiska tohoto typu.

KROK 20 Odstranění dilatačních podložek



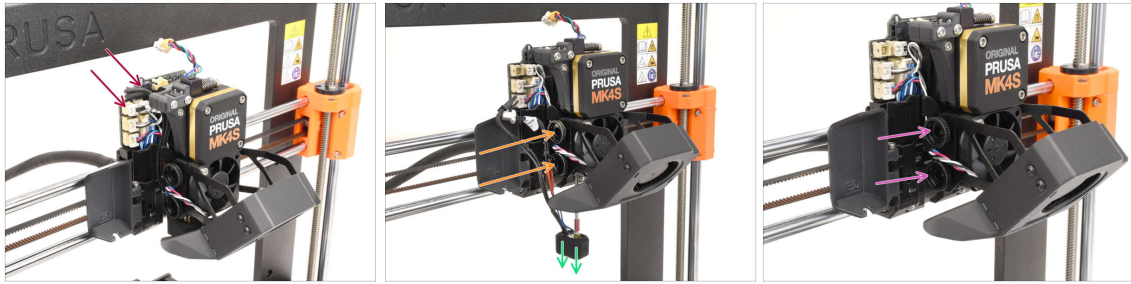
- ◆ Using the 2mm Allen key, remove all 8 expansion joints from the Y-Carriage.
- ◆ **Save the expansion joints for later use.**

KROK 21 Demontáž krytu extruderu.



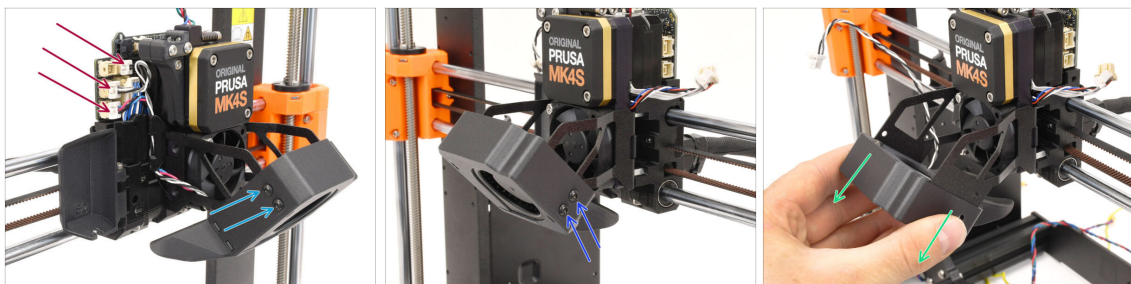
- ◆ Let's move onto the extruder.
- ◆ Remove the top cover on the extruder by lifting it up.
- ◆ Remove the screw holding the cover on the right side.
- ◆ Remove the side cover.
- ◆ Odpojte motor, senzor filamentu a kabely loadcellu.

KROK 22 Odstranění sestavy hotendu



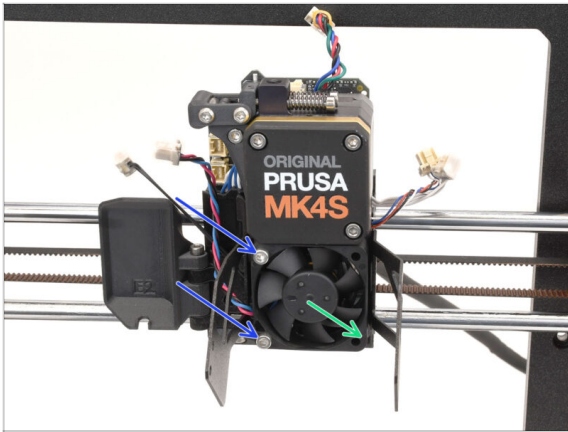
- 🔴 On the opposite side, disconnect the nozzle thermistor and nozzle heater cables.
- 🟠 Release the two thumb screws, until the hotend assembly drops.
- 🟢 Remove the hotend assembly and **save it for later use**.
- 🟡 Remove the two thumb screws and save them for later use.

KROK 23 Odstranění tiskového ventilátoru



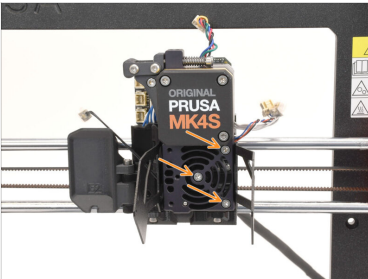
- 🔴 Odpojte oba kabely z levé strany Nextruderu.
- 🔵 Using the T10 screwdriver, remove the two screws holding the print fan on the left side.
- 🟡 Remove the two screws on the right.
- 🟢 Remove the print fan assembly by sliding it out. Proceed carefully to prevent damaging the cable going through the metal holder. **Save the fan assembly for later use!**

KROK 24 Odstranění ventilátoru chladiče



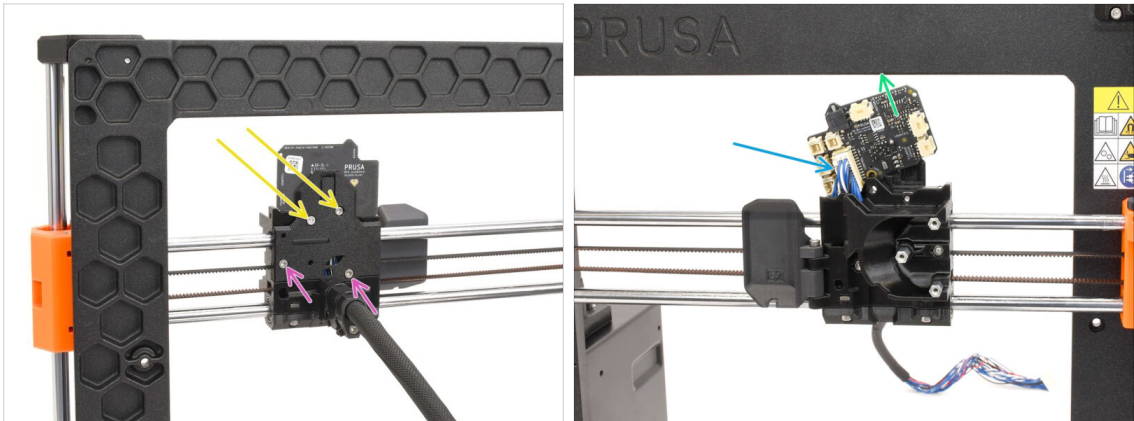
- Vyšroubujte dva šrouby, které drží ventilátor hotendu k chladiči.
- Remove the fan and **save it for later use**.
- 📌 Proceed carefully to prevent damaging the cable.

KROK 25 Vyjmutí Nextruderu



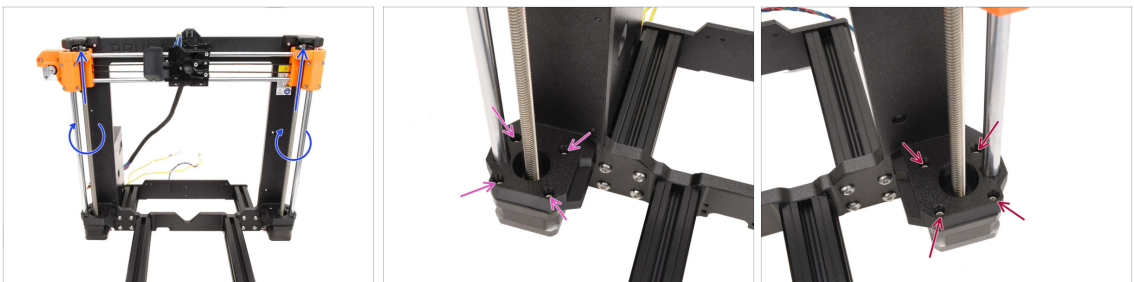
- Remove the three screws holding the Nextruder to the X-carriage.
- ⚠️ **Watch out! The Nextruder might fall out!**
- Remove the Nextruder from the printer.
- Remove the Print fan support and a plastic spacer (if present). Proceed carefully to prevent damaging the heatsink thermistor cable.
- **Nextruder si ponechte pro pozdější využití.**

KROK 26 Odstranění desky Loveboard



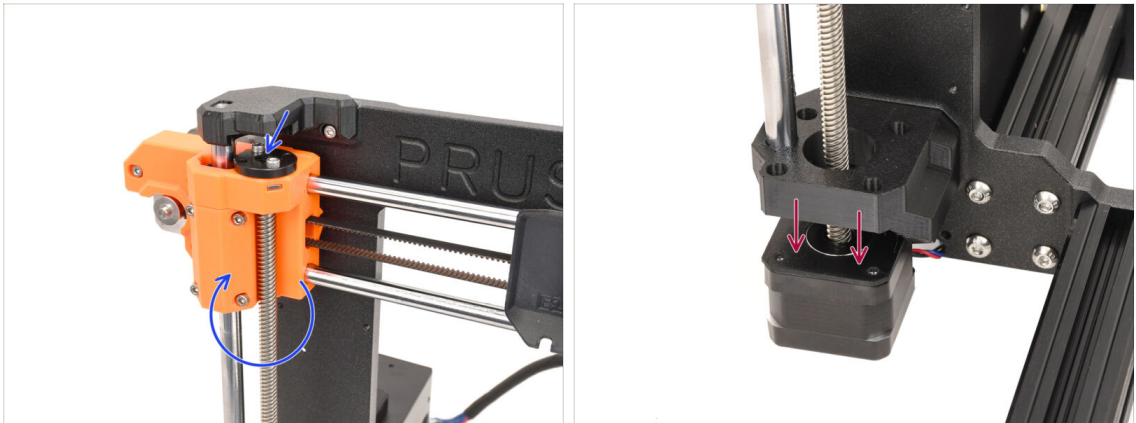
- Move onto the back of the X-carriage.
- Remove the two marked screws on top of the backing plate.
- Loosen the two remaining screws, but do not remove them entirely yet.
- Lift the Loveboard slightly to disconnect it from the main cable. Proceed carefully to prevent any damage to the Loveboard.
- **Vyndejte desku Loveboard a odložte si ji pro pozdější využití.**

KROK 27 Odstranění motoru osy Z



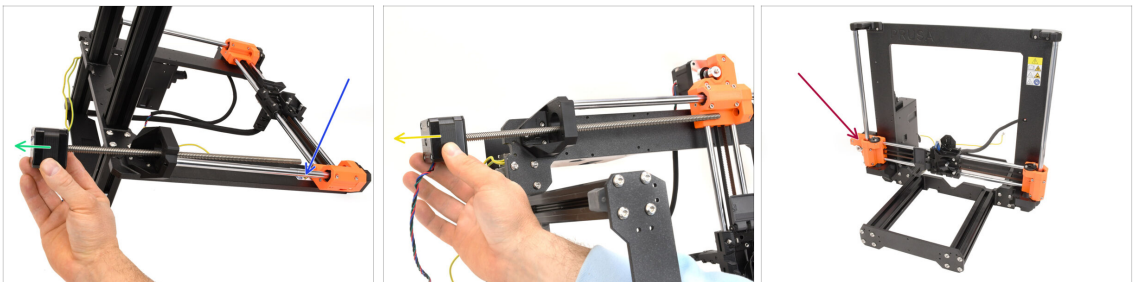
- Pro posunutí sestavy osy X až nahoru otáčejte ručně oběma závitovými tyčemi.
- Using a ball-end 2.5mm Allen key, remove all 4 screws securing the left Z motor.
- Remove the 4 screws holding the right Z motor as well.

KROK 28 Z Motors Removal 2



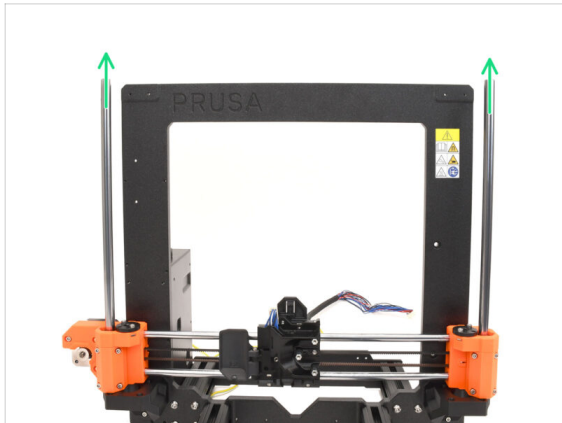
- Rotate the threaded rods on both sides to disengage both the motors from the trapezoid nuts on the X-End parts.
- Disengage the motors on both sides from the holders. The X-axis will drop slightly.

KROK 29 Z Motors Removal 3



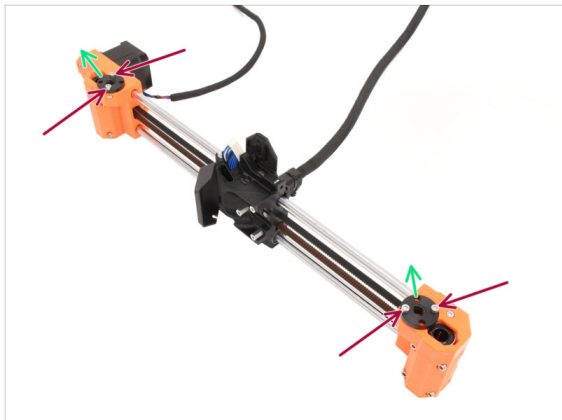
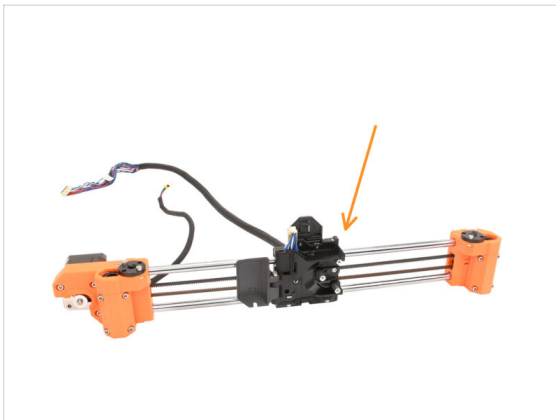
- Lay the frame onto its back part.
- Remove the right Z motor by sliding it out. **Save it for later use.**
- Remove the left Z motor. **Save it for later use.**
- Move the frame back to the original position. **Expect that the X-axis now moves freely and may fall rapidly.**

KROK 30 Odstranění tyčí osy Z



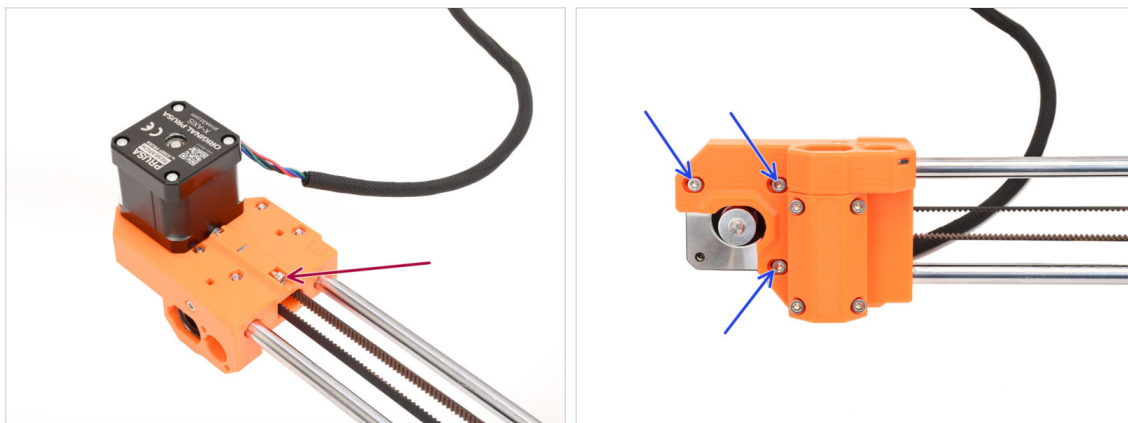
- ✿ Remove the four screws holding the Z-top parts on both sides.
- 🟠 Remove both Z-tops by pulling them up and disengaging from the rods.
- 🟢 Pull up both Z rods and remove them from the printer.
Save both rods for later use.
- 📖 ⓘ A slight wiggling motion may help to disengage them from the plastic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

KROK 31 Demontáž trapézových matic



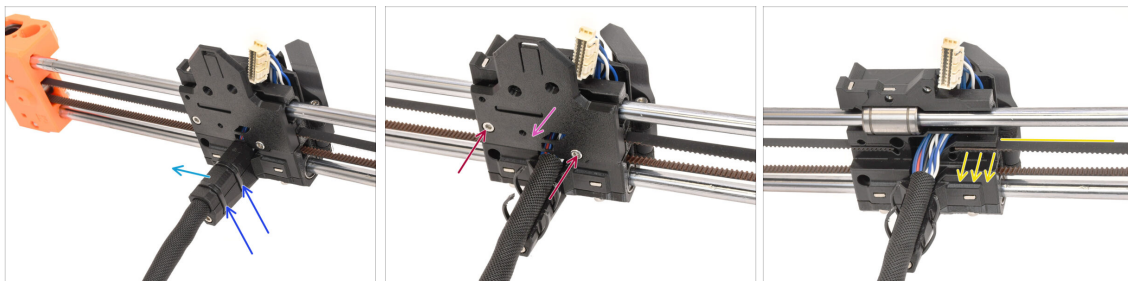
- 🟠 Remove the X-axis assembly from the printer's frame.
- 🔴 Remove the four screws holding the trapezoid nuts on top of both sides of the assembly.
- 🟢 Remove both the trapezoid nuts and **save them for later use.**
- 📖 ⓘ If the nuts are hard to remove, try rotating them, while pulling them up. If that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

KROK 32 Povolení motoru osy X



- 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 Povolení řemene osy X



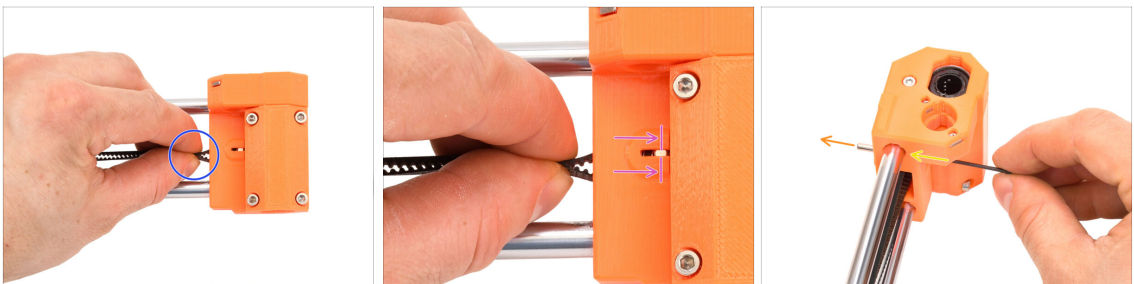
- On the back of the assembly, cut both the zip-ties holding the cable cover.
- Remove the cable cover.
- Remove both screws on the back of the X-carriage.
- Remove the cover on the back of the X-carriage.
- Pull out the end of the belt on the motor side, to disengage it.

KROK 34 Odstranění motoru osy X



- 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.

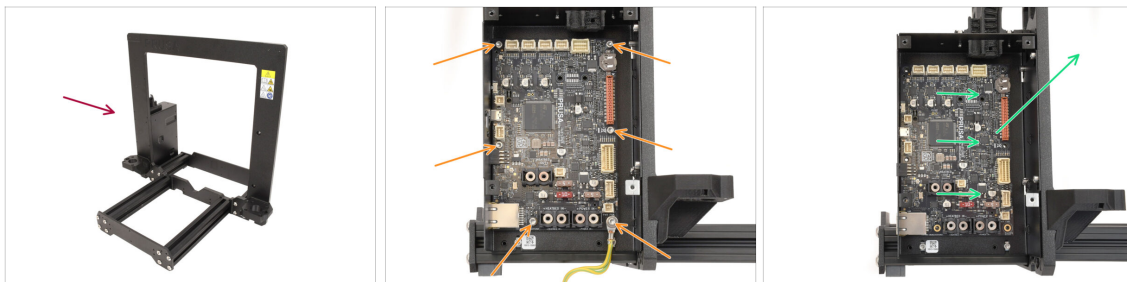
- While keeping the idler pushed all the way in, use the thinnest 1.5mm Allen key to push the shaft out of the part.
- The Idler shaft should exit the plastic part at the back. Remove it.

KROK 36 Odstranění idleru osy X



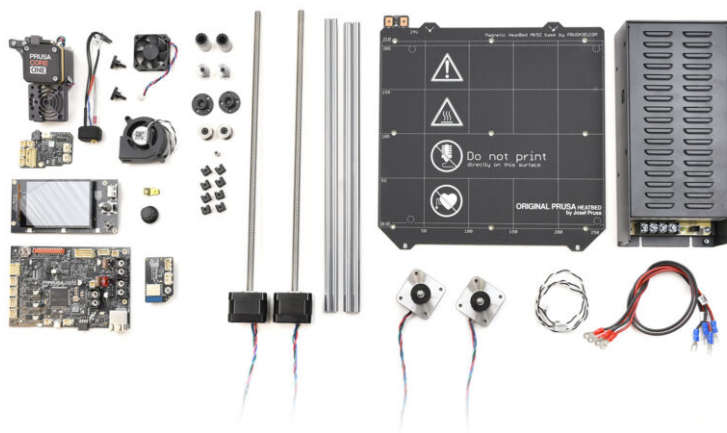
- Pull out the Idler pulley.
- Save the pulley for later use.

KROK 37 Odstranění xBuddy

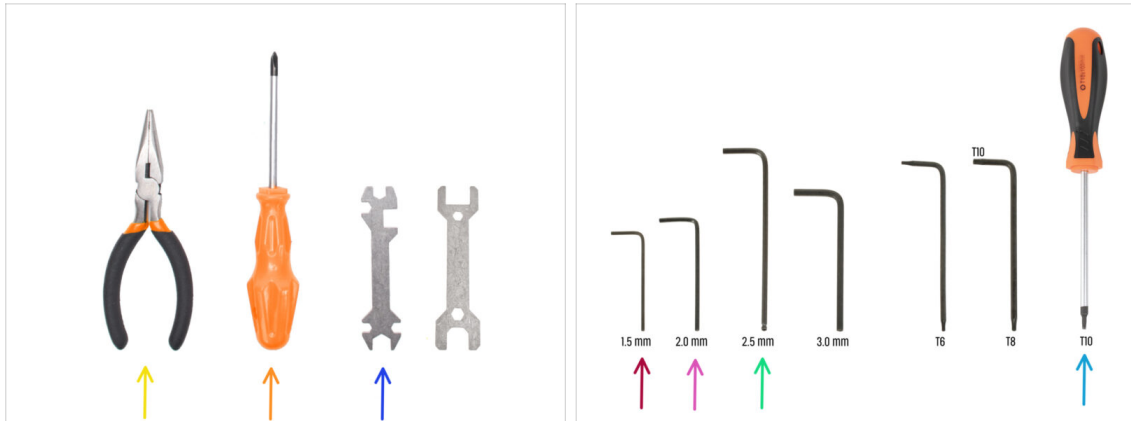


- Let's move back to the printer's frame.
- Remove the six screws holding the xBuddy board in place.
- Release the xBuddy by sliding it towards the frame, then lifting it. **Save it for later use.**

1D. Příprava komponent



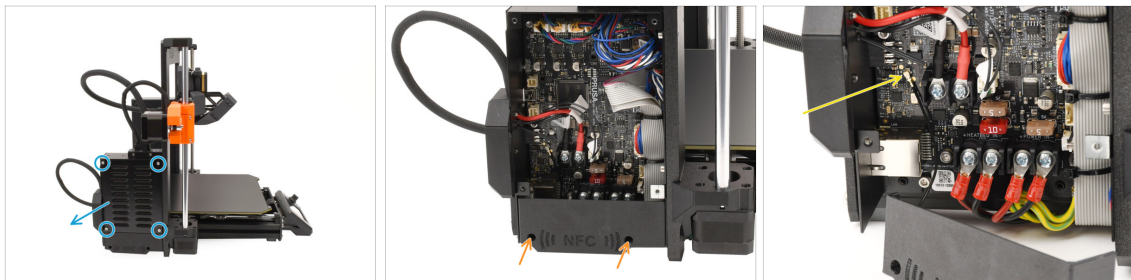
KROK 1 Potřebné nástroje



● For this chapter, please prepare:

- Čelistové kleště
- Křížový šroubovák
- Univerzální klíč
- 1,5mm inbusový klíč
- 2mm inbusový klíč
- 2,5mm inbusový klíč
- Šroubovák T10

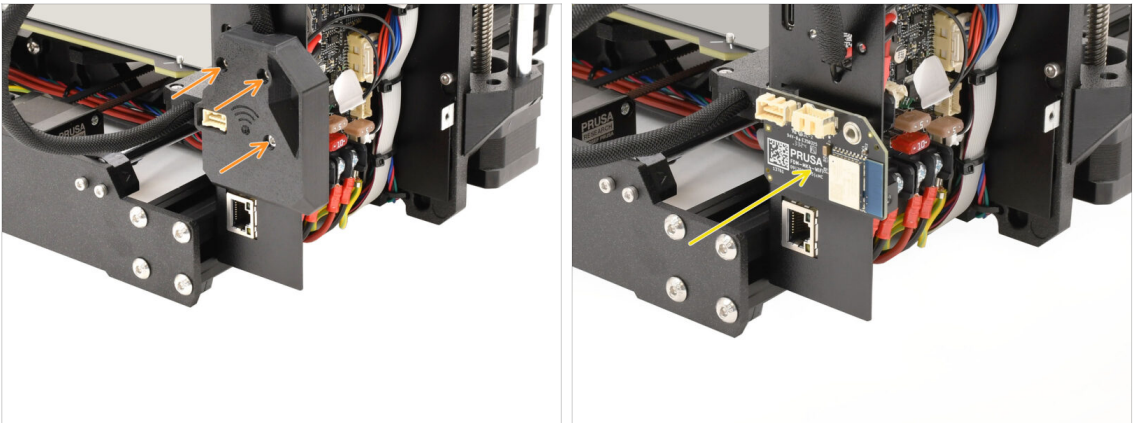
KROK 2 Demontáž elektroniky



- 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.

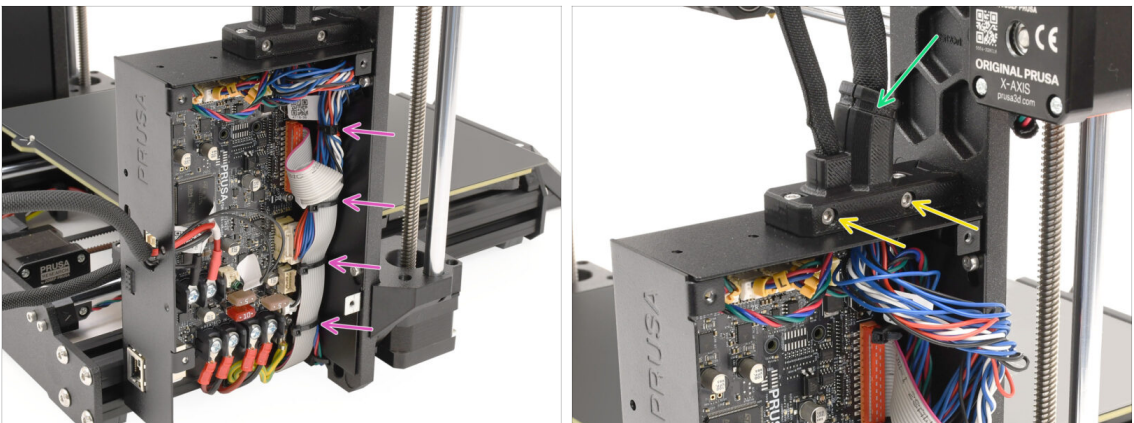
Then, remove the antenna along with the cover.

KROK 3 Demontáž Wi-Fi



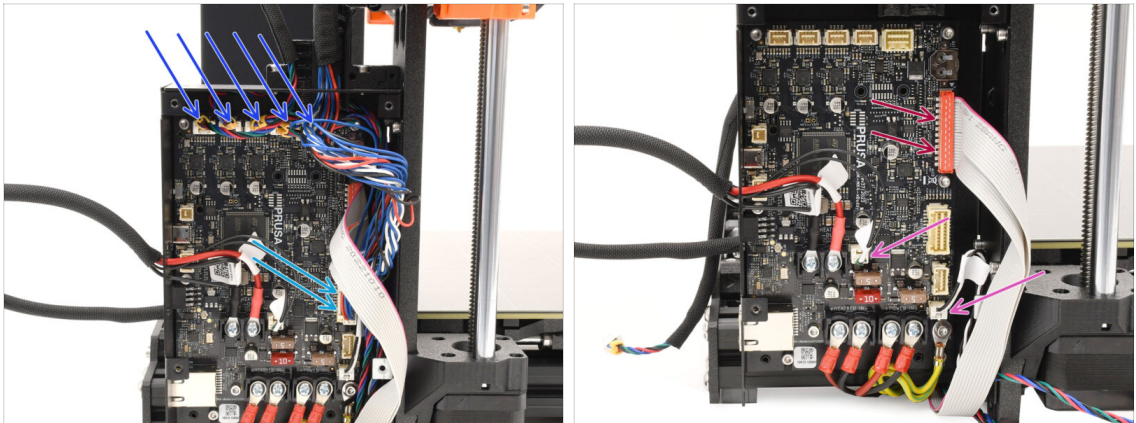
- ✚ On the back of the electronics box, remove the three screws holding the Wi-Fi cover and remove the cover.
- ✚ Remove the Wi-Fi module and **save it for later use**.
 - ⚠ Ensure you store the module and all electronic components in an ESD-safe environment to prevent damage!

KROK 4 Rozebrání kabelového svazku



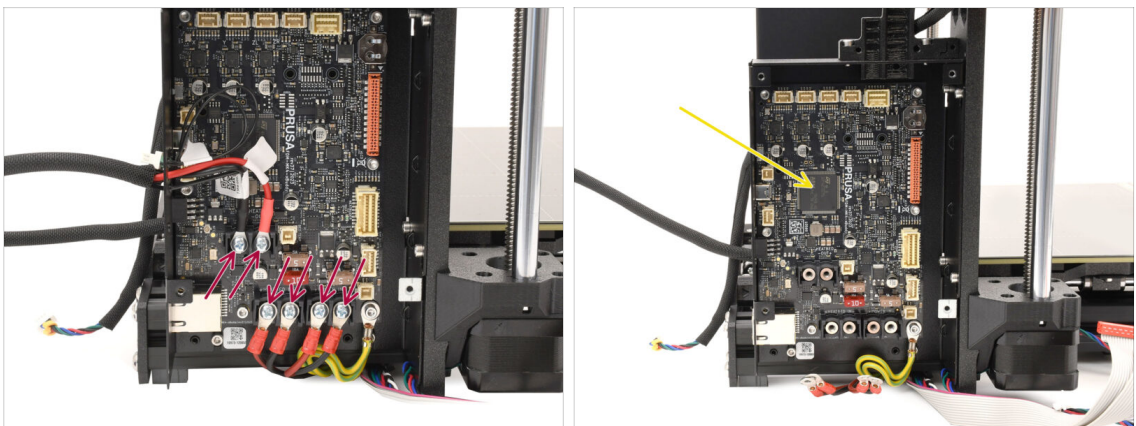
- ✚ Remove all the zip-ties securing the cable bundle inside the xBuddy box.
 - ⚠ When cutting the zip-ties, proceed carefully to prevent any damage to the cables or the electronics!
- ✚ Remove the two screws on the main cable holder.
- ✚ Cut the zip-tie holding the cover together, then remove the outer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

KROK 5 Odpojení kabelů 1



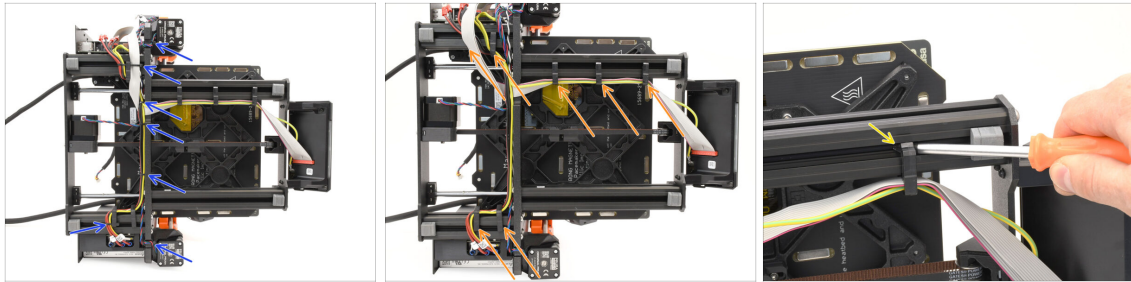
- ◆ Disconnect all the connectors on the top of the xBuddy board.
 - ⚠ There is a safety latch on each of these connectors, which must be pressed in order to disconnect it.
- ◆ Disconnect the extruder main cable connector.
- ◆ Disconnect the heatbed thermistor and power panic cables.
- ◆ Disconnect the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

KROK 6 Odpojení kabelů 2



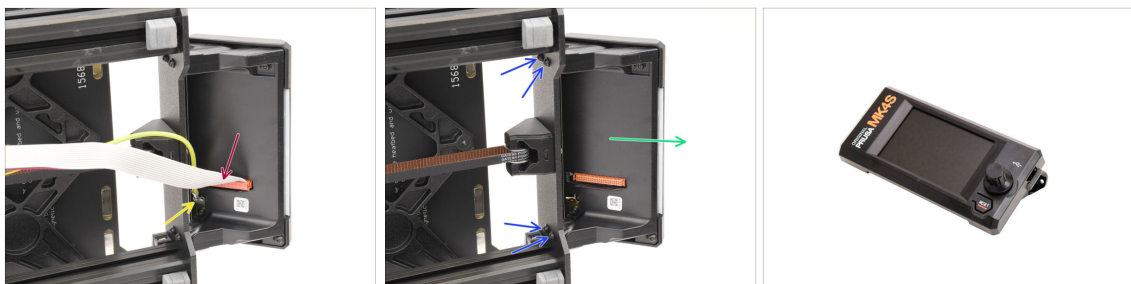
- ◆ Using the Phillips screwdriver, remove all the terminal screws holding the heatbed and power cable connectors.
- ◆ Leave the xBuddy board in the electronics box for now, as this way, it is well protected from damage.

KROK 7 Povolení svazku kabelů



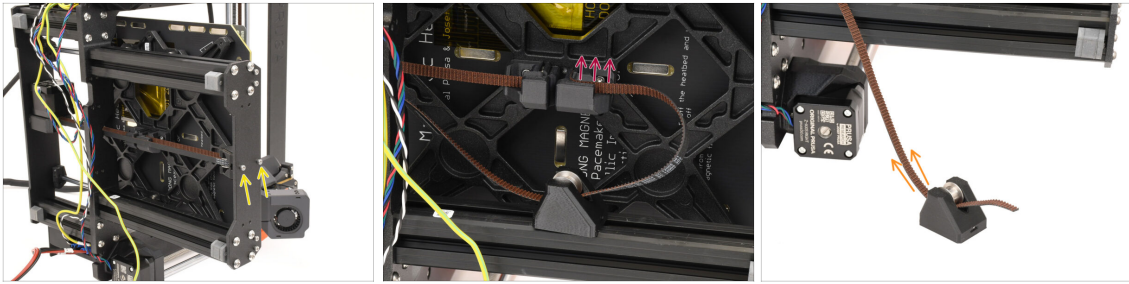
- Lay the printer onto the PSU side to access the bottom part.
- Carefully remove all the zip-ties holding the cable bundle
- Remove all the cable holders from the frame and detach them from the cables.
 - Pro tip: You can pry them off the metal profiles using the screwdriver.

KROK 8 Odstranění xLCD



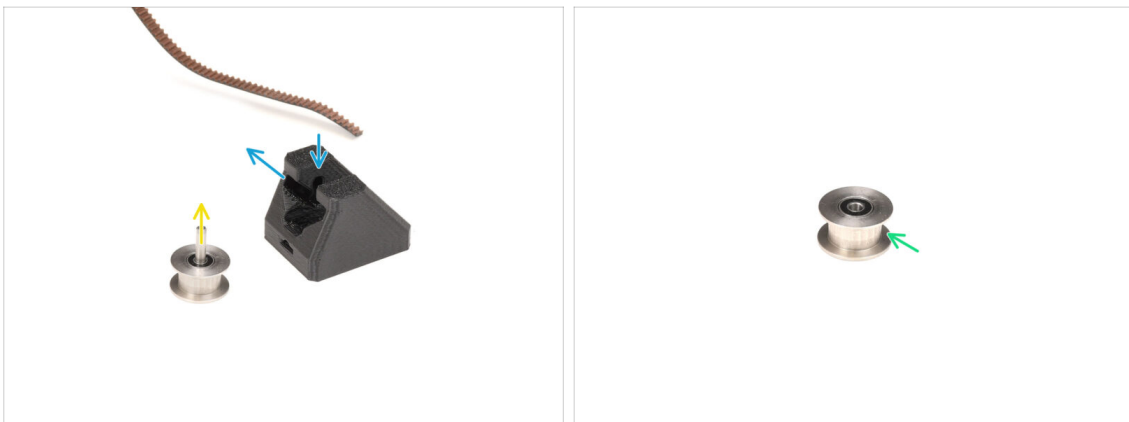
- Disconnect the main cable from the xLCD by gently lifting the connector up.
- Disconnect the grounding cable.
- Using the T10 screwdriver, remove the four screws holding the xLCD assembly.
- Remove the xLCD assembly and **save it for later use!**

KROK 9 Odstranění idleru



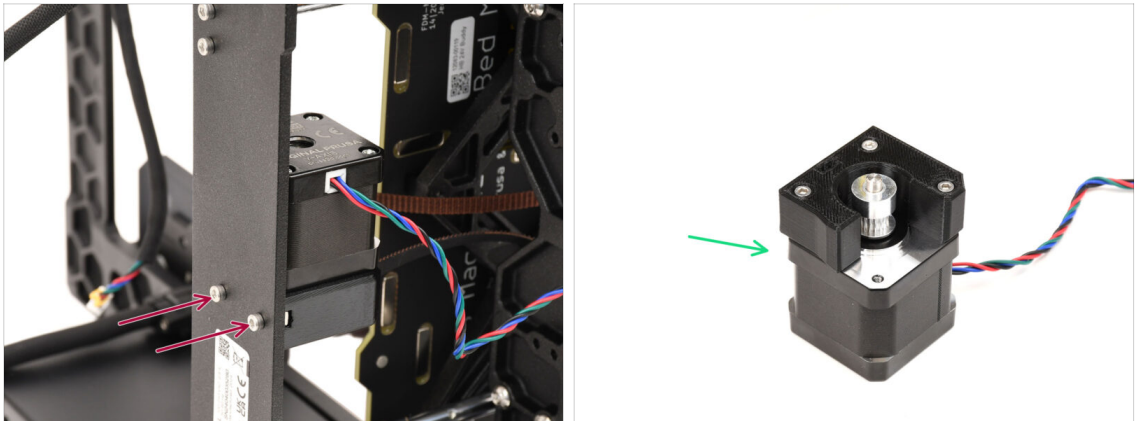
- ✦ Using the 2.5mm Allen key, remove the two screws holding the Y-Axis Idler on the front plate.
- ✦ Pull the end of the Y-axis belt out of the holder at the bottom of the heatbed to disengage it.
- ✦ Remove the belt from the idler by pulling it out.

KROK 10 Odstranění řemeničky idleru



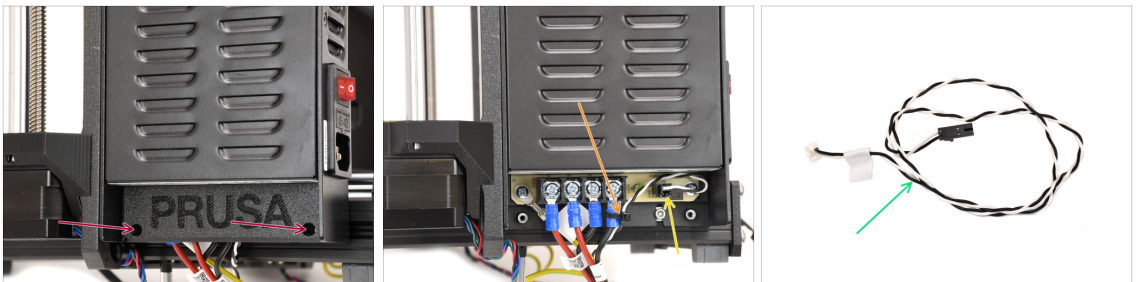
- ✦ Orient the Y-Idler as shown in the picture.
Remove the pulley by first moving it inward, then pulling it out to the side.
Refer to the groove pattern in the picture for the correct trajectory.
- ✦ Remove the center shaft from the pulley.
- ✦ **Save the pulley for later use.**

KROK 11 Odstranění motoru osy Y



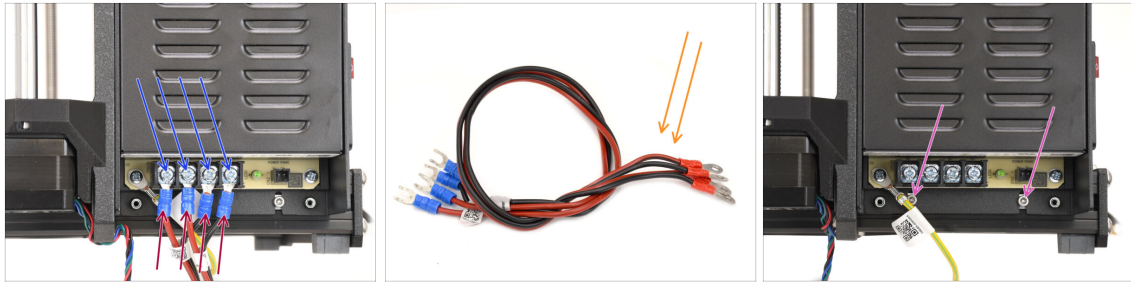
- Remove the two screws on the back of the printer, holding the Y-axis motor in place.
- Remove the Y-axis motor assembly and **save it for later use**.

KROK 12 Power Panic Cable Removal



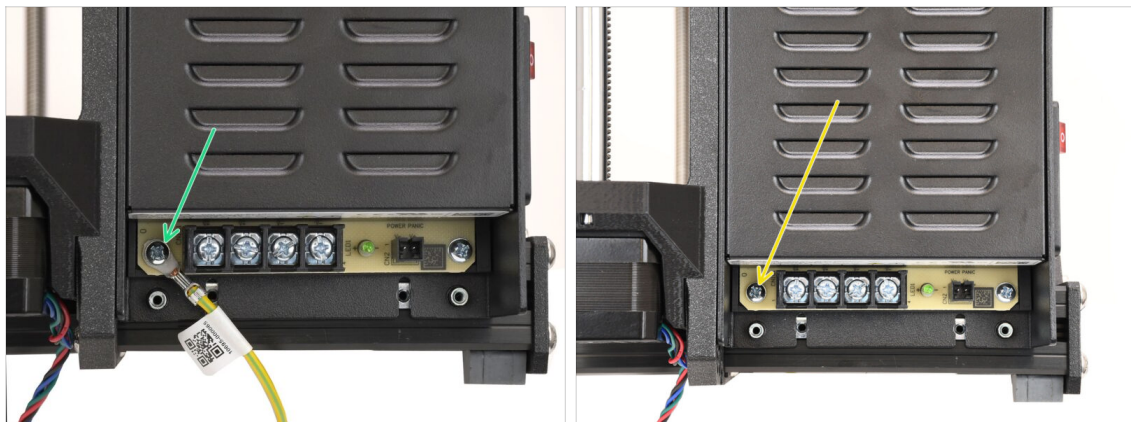
- Let's move onto the right side of the printer carcass, where the PSU lives.
- Remove the two screws securing the cover, then take off the cover.
- Carefully cut off the zip-tie holding the power panic cable.
- Save the power panic cable for later use.**
- i** The power panic cable may look different,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

KROK 13 Vyjmutí napájecích kabelů



- 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 Odstranění zdroje napájení 1



- Remove the screw holding the grounding cable to the PSU.
- Odpojte kabel uzemnění-dále již nebude potřeba.
- Re-install the screw you previously removed.

KROK 15 Odstranění zdroje napájení 2

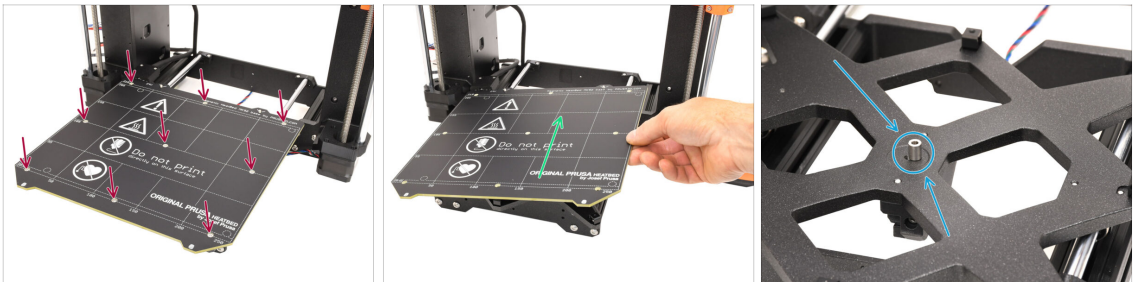


- On the front of the frame, remove the two screws holding the PSU.

⚠ Zdroj napájení by mohl spadnout na stranu!

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

KROK 16 Odstranění vyhřívané podložky



- Let's move onto the heated bed.

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

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

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

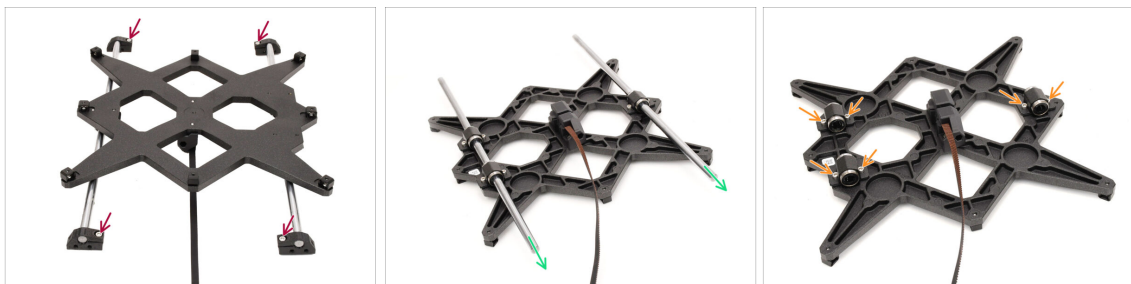
📌 Be careful and store the heated bed on a soft surface to prevent scratching it.

KROK 17 Odstranění osy Y



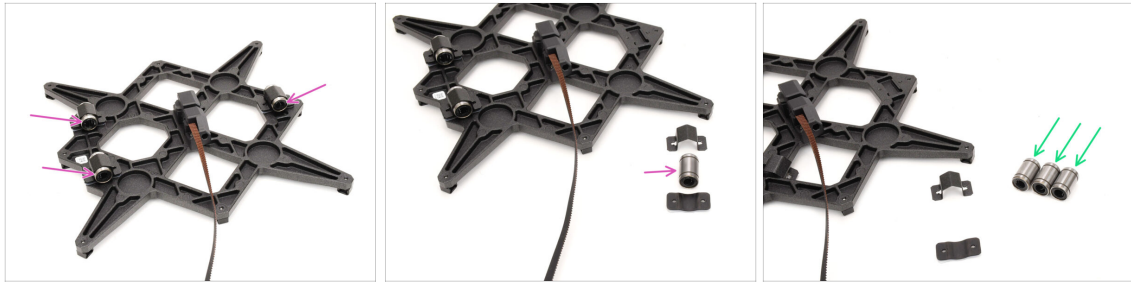
- Using the 2.5mm Allen key, remove the four screws holding the Y-axis rods to the front of the frame.
- Remove the four screws holding the Y-axis rods to the back of the frame.
- Remove the whole Y-axis assembly from the printer's frame.

KROK 18 Demontáž osy Y



- 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 Odstranění ložisek



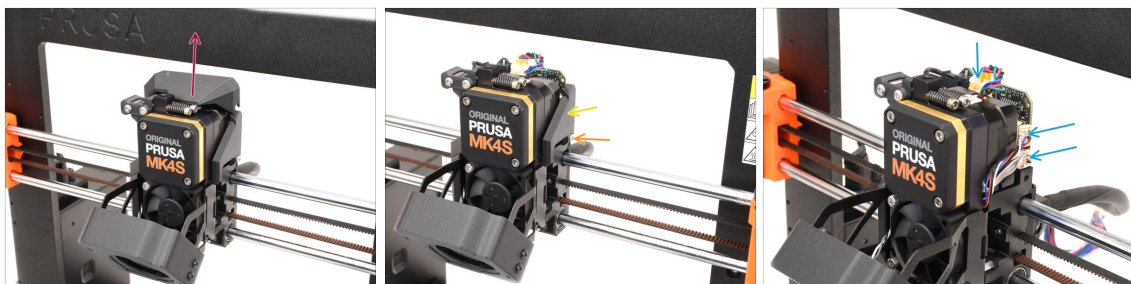
- ◆ Remove all three bearings from the bearing holders.
- ◆ Clean the bearings from any excess grease or dirt, and **save them for later use**.
- ❗ Two of this type of bearings will be used to build the CORE One.

KROK 20 Odstranění dilatačních podložek



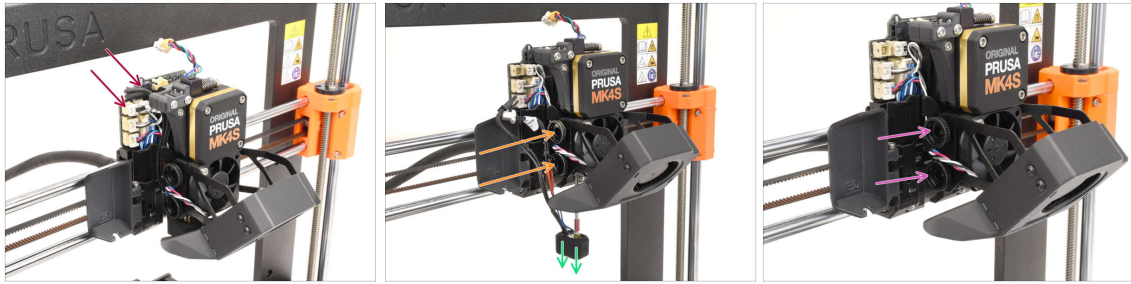
- ◆ Using the 2mm Allen key, remove all 8 expansion joints from the Y-Carriage.
- ◆ **Save the expansion joints for later use.**

KROK 21 Demontáž krytu extruderu.



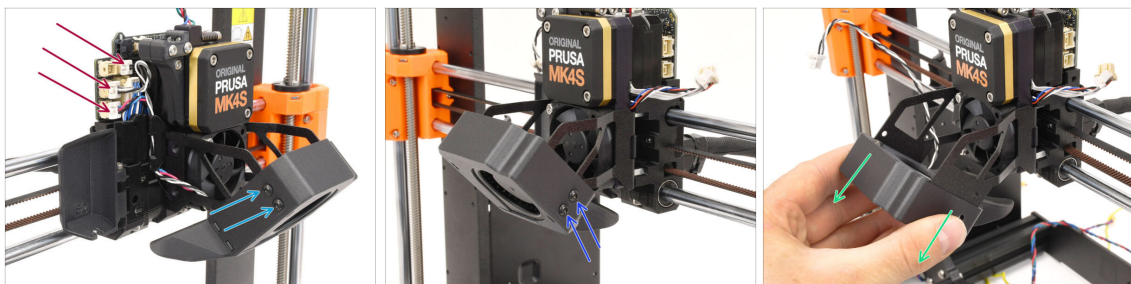
- ◆ Let's move onto the extruder.
- ◆ Remove the top cover on the extruder by lifting it up.
- ◆ Remove the screw holding the cover on the right side.
- ◆ Remove the side cover.
- ◆ Disconnect the motor, filament sensor and loadcell cables.

KROK 22 Odstranění sestavy hotendu



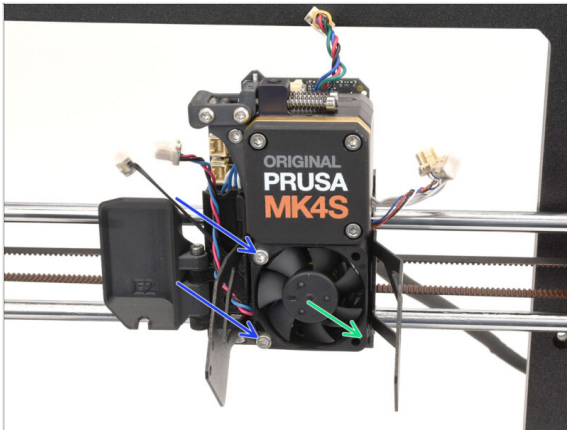
- 🔴 On the opposite side, disconnect the nozzle thermistor and nozzle heater cables.
- 🟠 Release the two thumb screws, until the hotend assembly drops.
- 🟢 Remove the hotend assembly and **save it for later use**.
- 🟡 Remove the two thumb screws and save them for later use.

KROK 23 Odstranění tiskového ventilátoru



- 🔴 Odpojte oba kabely z levé strany Nextruderu.
- 🔵 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 Odstranění ventilátoru chladiče

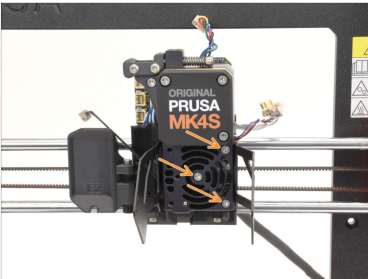


- Vyšroubujte dva šrouby, které drží ventilátor hotendu k chladiči.
- Remove the fan and **save it for later use**.



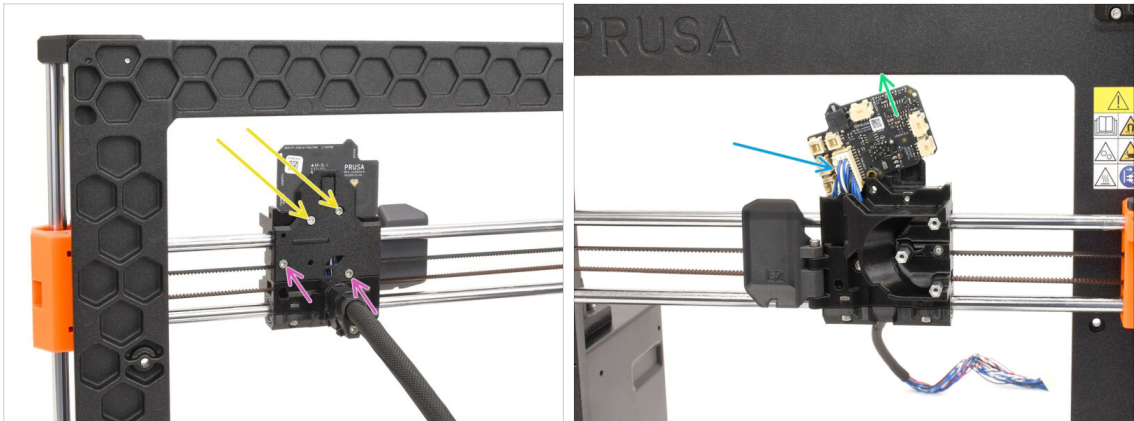
Proceed carefully to prevent damaging the cable.

KROK 25 Vyjmutí Nextruderu



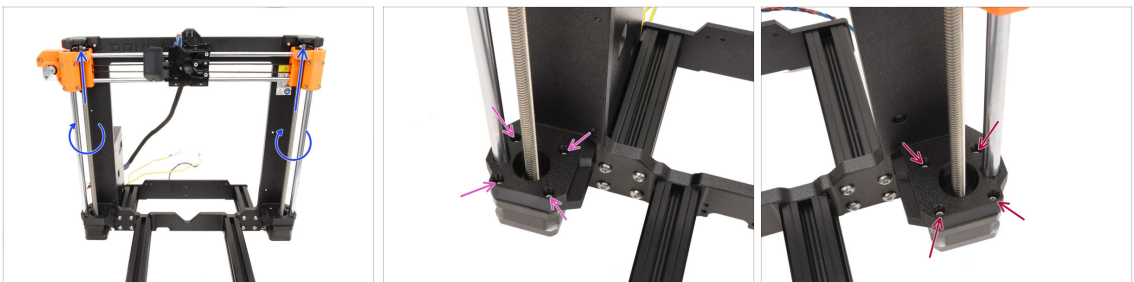
- Remove the three screws holding the Nextruder to the X-carriage.
⚠ **Watch out! The Nextruder might fall out!**
- Remove the Nextruder from the printer.
- Remove the Print fan support and a plastic spacer (if present). Proceed carefully to prevent damaging the heatsink thermistor cable.
- **Save the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

KROK 26 Odstranění desky Loveboard



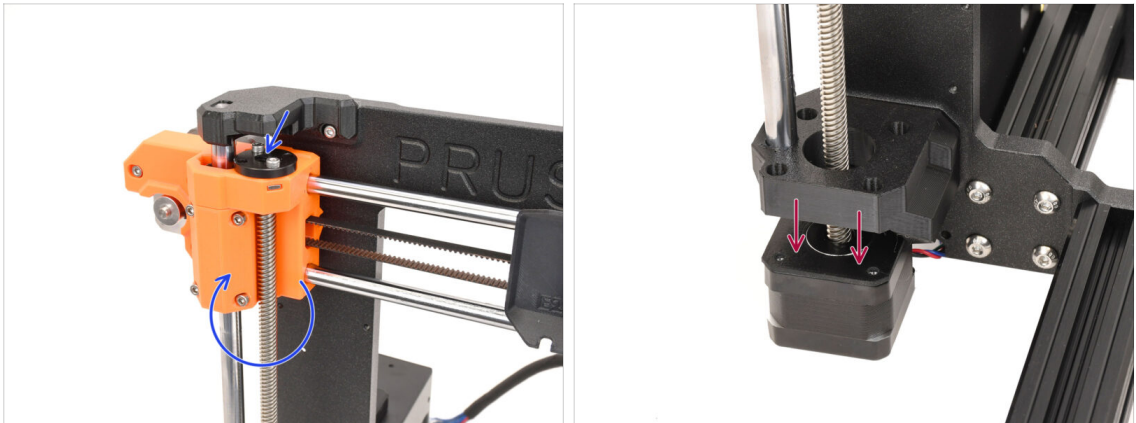
- Move onto the back of the X-carriage.
- Remove the two marked screws on top of the backing plate.
- Loosen the two remaining screws, but do not remove them entirely yet.
- Lift the Loveboard slightly to disconnect it from the main cable. Proceed carefully to prevent any damage to the Loveboard.
- **Remove the Loveboard and save it for later use.**

KROK 27 Odstranění motoru osy Z



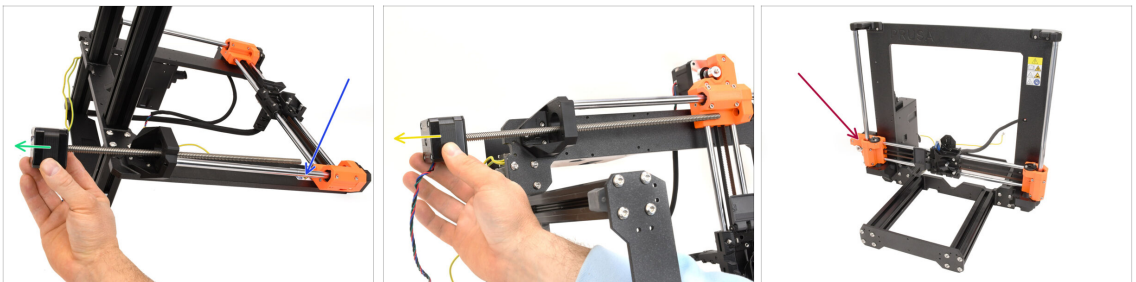
- Pro posunutí sestavy osy X až nahoru otáčejte ručně oběma závitovými tyčemi.
- Using a ball-end 2.5mm Allen key, remove all 4 screws securing the left Z motor.
- Remove the 4 screws holding the right Z motor as well.

KROK 28 Z Motors Removal 2



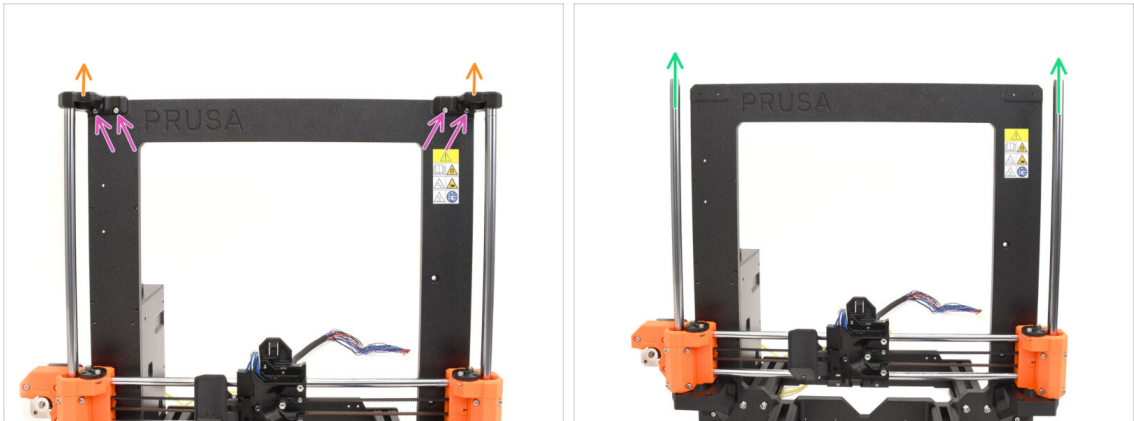
- Rotate the threaded rods on both sides to disengage both the motors from the trapezoid nuts on the X-End parts.
- Disengage the motors on both sides from the holders. The X-axis will drop slightly.

KROK 29 Z Motors Removal 3



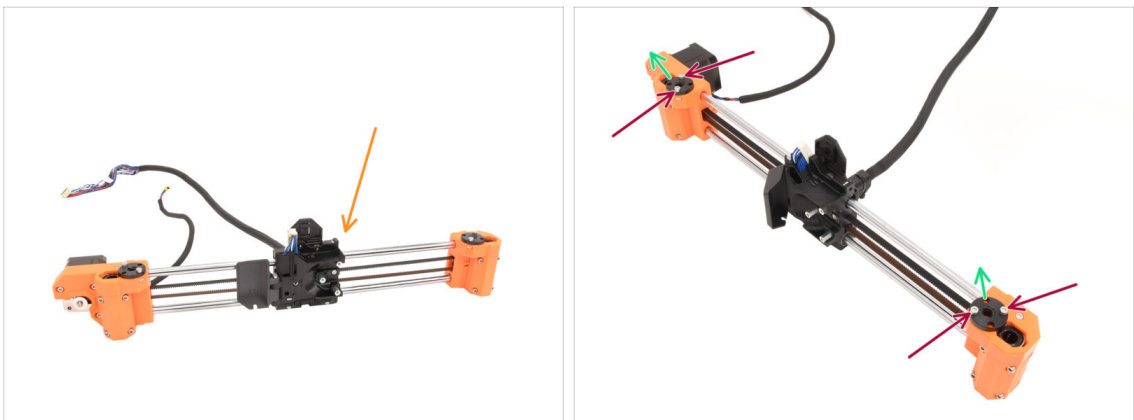
- Lay the frame onto its back part.
- Remove the right Z motor by sliding it out. **Save it for later use.**
- Remove the left Z motor. **Save it for later use.**
- Move the frame back to the original position. **Expect that the X-axis now moves freely and may fall rapidly.**

KROK 30 Odstranění tyčí osy Z



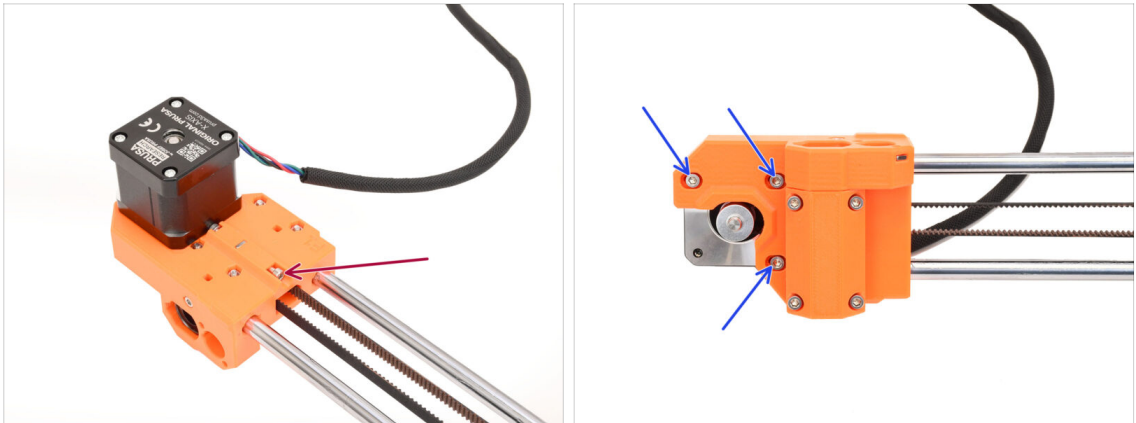
- ✿ Remove the four screws holding the Z-top parts on both sides.
- 🟠 Remove both Z-tops by pulling them up and disengaging from the rods.
- 🟢 Pull up both Z rods and remove them from the printer.
Save both rods for later use.
- 📖 A slight wiggling motion may help to disengage them from the plastic part.

KROK 31 Demontáž trapézových matic



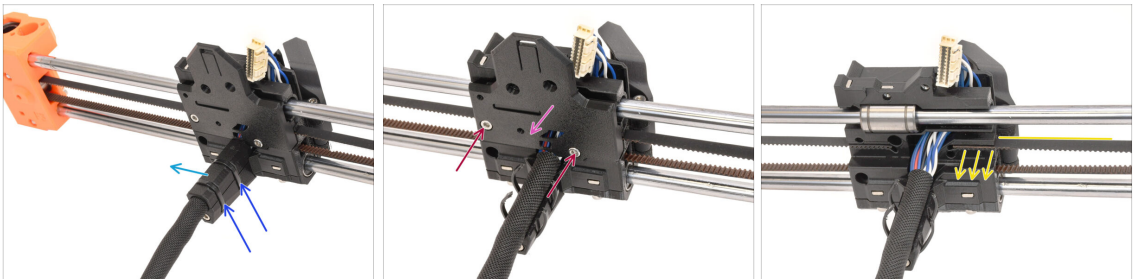
- 🟠 Remove the X-axis assembly from the printer's frame.
- 🔴 Remove the four screws holding the trapezoid nuts on top of both sides of the assembly.
- 🟢 Remove both the trapezoid nuts and **save them for later use.**
- 📖 If the nuts are hard to remove, try rotating them, while pulling them up. If that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

KROK 32 Povolení motoru osy X



- 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 Povolení řemene osy X



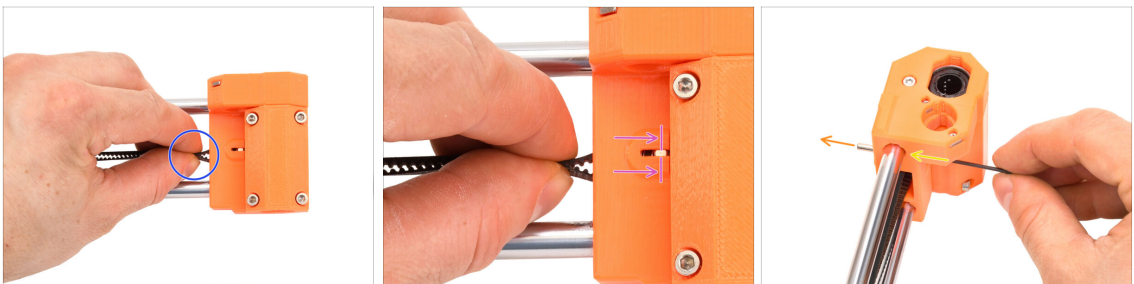
- On the back of the assembly, cut both the zip-ties holding the cable cover.
- Remove the cable cover.
- Remove both screws on the back of the X-carriage.
- Remove the cover on the back of the X-carriage.
- Pull out the end of the belt on the motor side, to disengage it.

KROK 34 Odstranění motoru osy X



- 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.

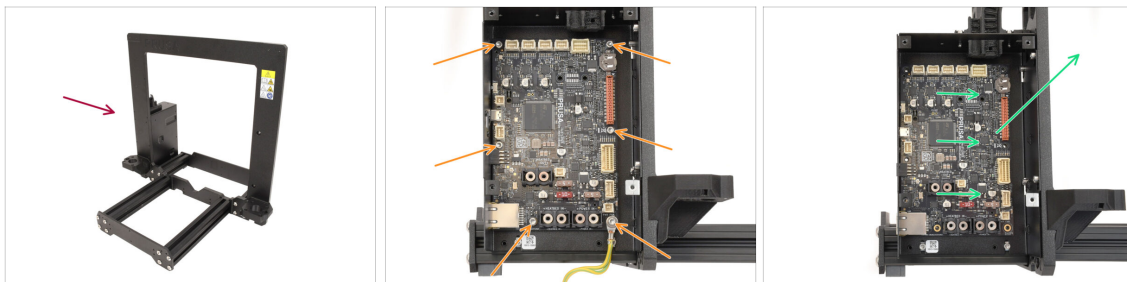
- While keeping the idler pushed all the way in, use the thinnest 1.5mm Allen key to push the shaft out of the part.
- The Idler shaft should exit the plastic part at the back. Remove it.

KROK 36 Odstranění idleru osy X



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

KROK 37 Odstranění xBuddy

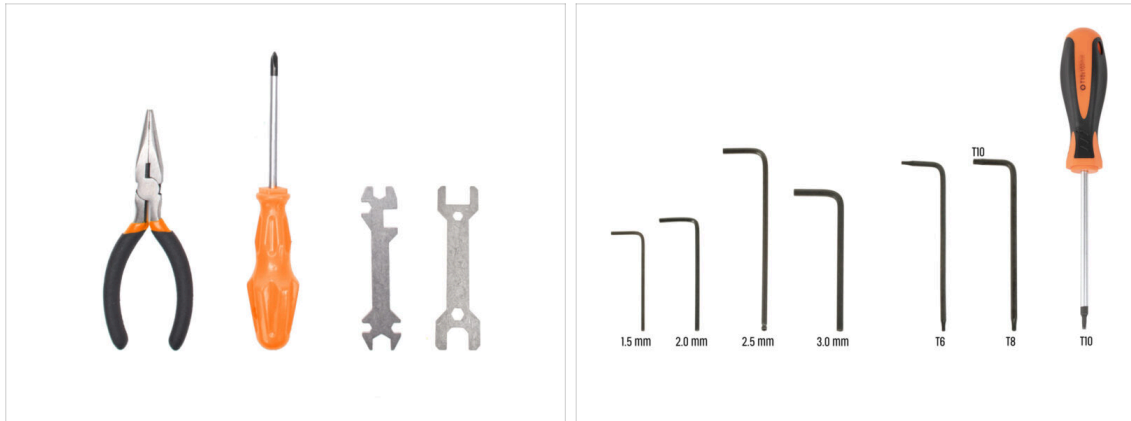


- Let's move back to the printer's frame.
- Remove the six screws holding the xBuddy board in place.
- Release the xBuddy by sliding it towards the frame, then lifting it. **Save it for later use.**

2. Sestavení rámu

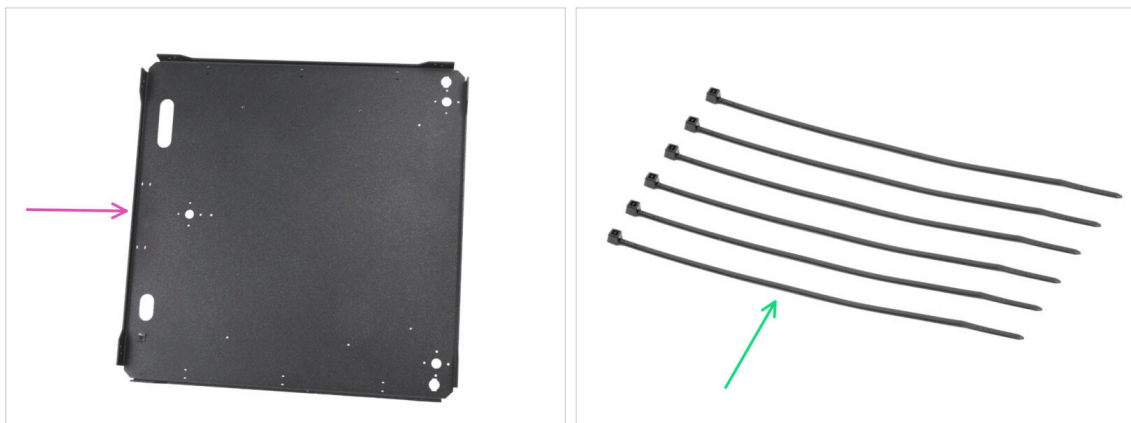


KROK 1 Tools necessary for this chapter



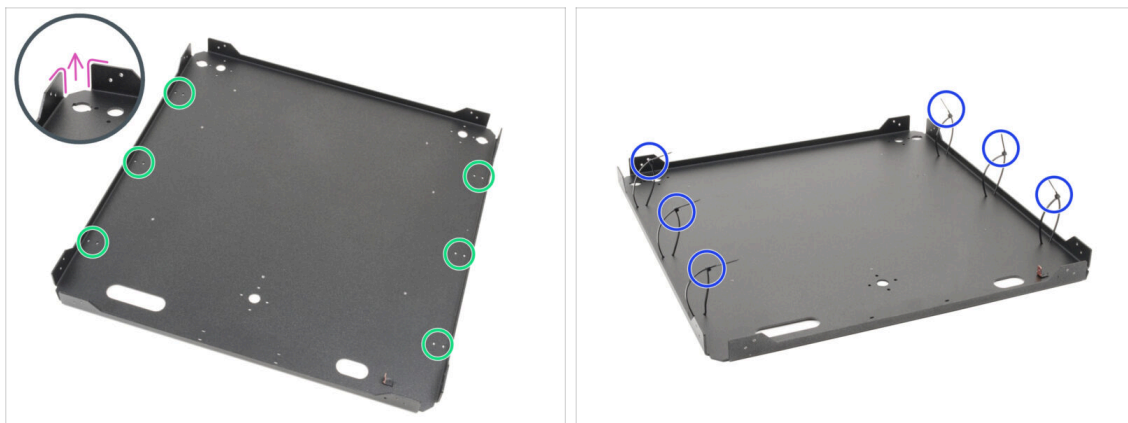
- Pro tuto kapitolu si prosím připravte:
- Klíč 13-16
- 2,5mm inbusový klíč
- T10 torx key / T10 torx screwdriver

KROK 2 Base assembly: parts preparation



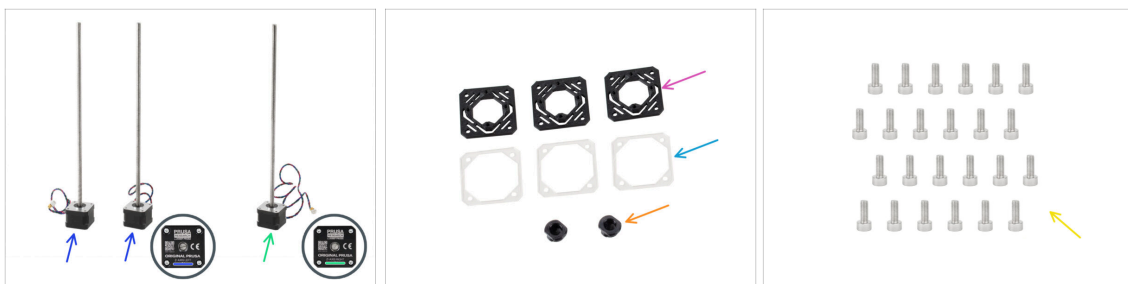
- Pro následující kroky si prosím připravte:
- Bottom panel (1x) found in the Metal parts 1/3 package
- Zip tie (6x) found in the Electronics & Fasteners package

KROK 3 Inserting the zip ties



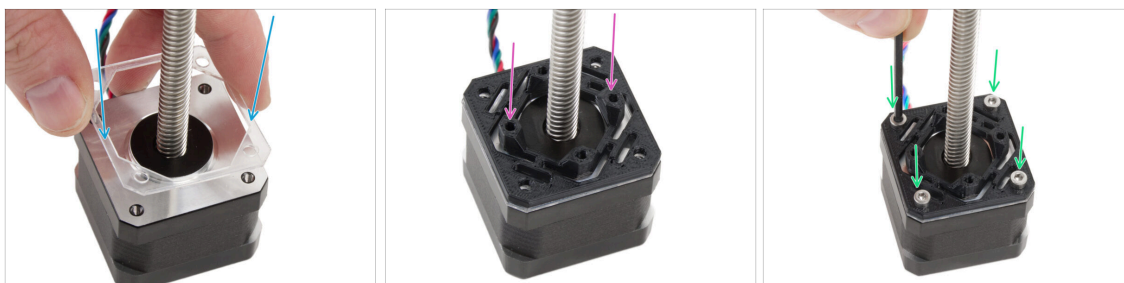
- ✿ Otočte si spodní panel tak, aby jeho ohnuté části směřovaly nahoru.
- ✿ Note the twin holes for the zip ties around the perimeter of the panel.
- ✿ Insert six zip ties through the holes, placing them along both sides and partially tightening them, engaging only the first few teeth.
- ⚠ **Do not fully 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



- ✿ **Pro následující kroky si prosím připravte:**
- ✿ Z-axis left motor (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*
- ✿ Podložka motoru (3x) *naleznete v balíčku Electronics & Chamber parts*
- ✿ 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



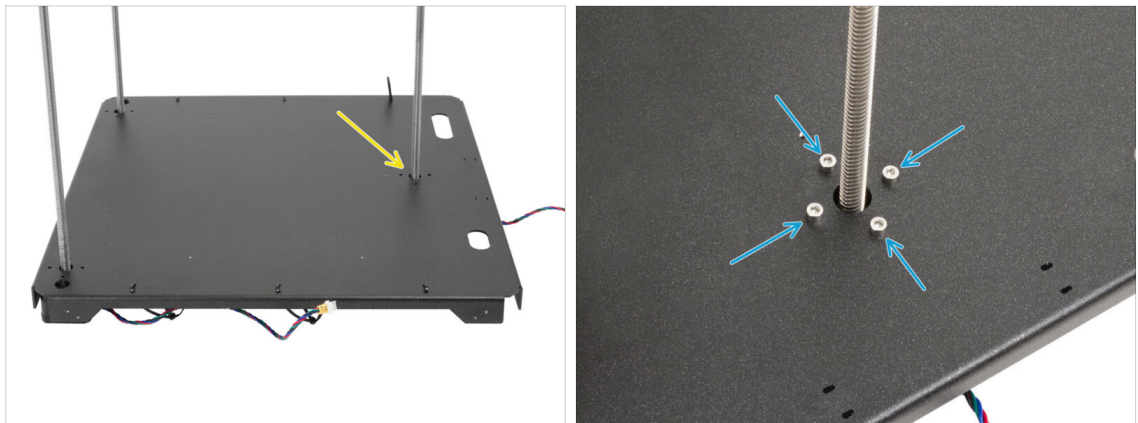
- 🔵 Na každý motor osy Z dejte jednu průhlednou podložku motoru.
- 🟣 Place one Z-motor-mount on each motor washer. **The protrusions on the part must be facing upwards.**
- ⬛ Align holes with all the parts.
- 🟢 Join all parts together with four M3x8 screws.
- ⬛ Follow the same procedure for all motors.

KROK 6 Installing the rear motor



- 🟣 Otočte si spodní panel vzhůru nohama.
- 🟡 Locate the circle hole in the middle of the panel back side.
- 🔵 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



- ✦ Begin securing the motors, starting from the rear motor.
- ✦ Insert and fully tighten four M3x8 screws into the **rear motor**.
 - ⚠ 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



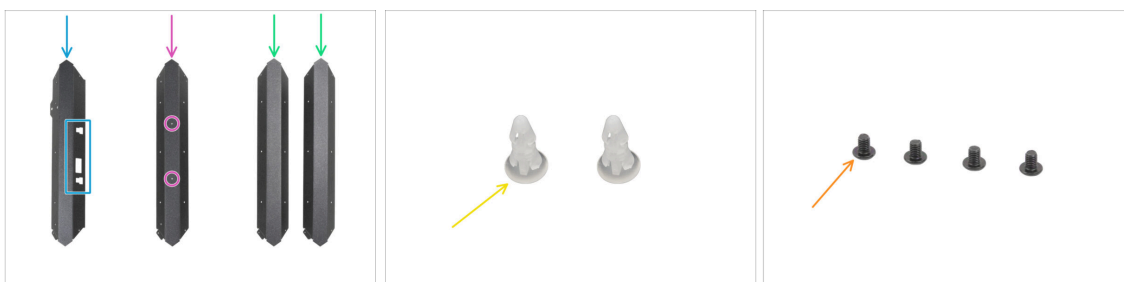
- ✦ First, insert the rod-mount into the opening next to the front right Z motor.
- ✦ Use the 13-16 wrench to rotate the rod mount 90 degrees, locking it into place.
- ✦ Secure the motor using four M3x8 screws. Tighten them completely.
 - ⚠ Make sure the screws stay straight and do not tilt as you tighten them.

KROK 9 Installing the front motor left

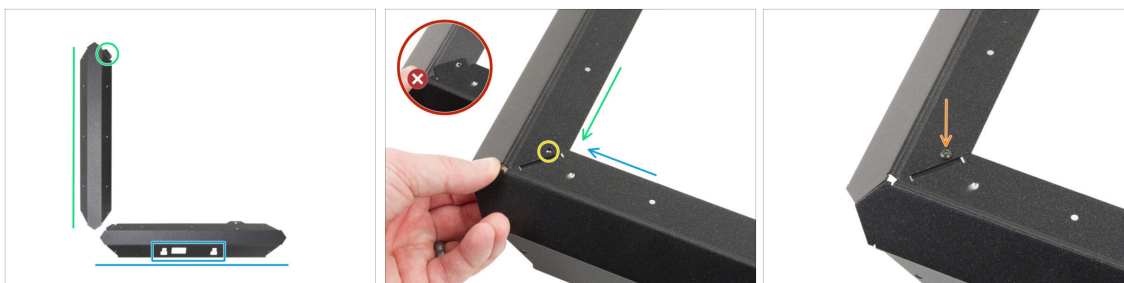


- Let's move to the front left motor (from the front view).
- ⚠ Ensure, the motor cable still points to the rear side.
- Insert the rod-mount into the opening next to the front right Z motor.
- Use the 13-16 wrench to rotate the rod mount 90 degrees, locking it into place.
- Secure the motor using four 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

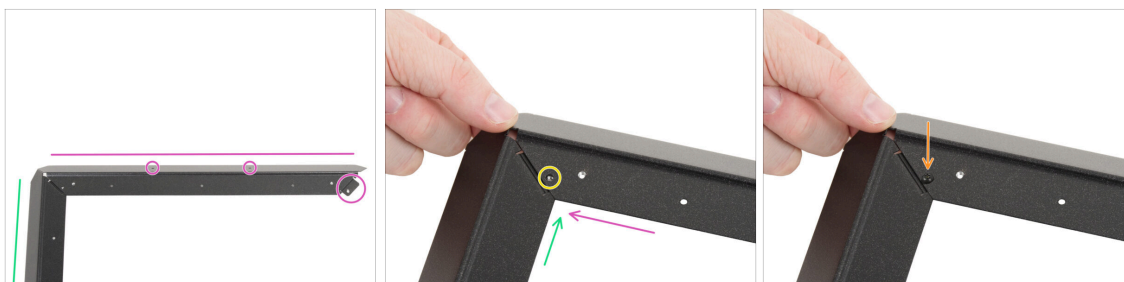


- For the following steps, please prepare:
- ⚠ Be very careful when handling sharp sheet metal parts to avoid injury or damage.
- ⚠ Metal sheet profiles may look identical at first glance, but there are some differences. DOUBLE-CHECK to pick the correct ones.
- Front profile (1x) **notice the cutouts** - 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
- Šroub M3x4rT (4x)

KROK 11 Assembling the bottom profile: front + left

⚠ Be very careful when handling sharp sheet metal parts to avoid injury or damage.

- 🔵 Place the front profile according to the picture. The cutouts must be facing you.
- 🟢 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.
- ⚠ **Pozor!** Příruba předního profilu (modrá šipka) musí být zasunutá **pod** levý univerzální profil (zelená šipka), nikoliv přes.
- 🟡 Align the holes in both parts.
- 🟠 Join both parts together with the M3x4rT screw.

KROK 12 Assembling the bottom profile: left + rear

- 🟡 According to the picture, place the rear profile (with two holes on the flat side) to the universal left profile. Orient the part according to the picture. **Use the flange as a guide.**
- ⬛ Join the rear profile with the universal left profile together.
- ⚠ **Make sure the flange is under the rear profile, not on top.**
- 🟡 Align the holes in both parts.
- 🟠 Oba díly spojte šroubem M3x4rT.

KROK 13 Assembling the bottom profile: right



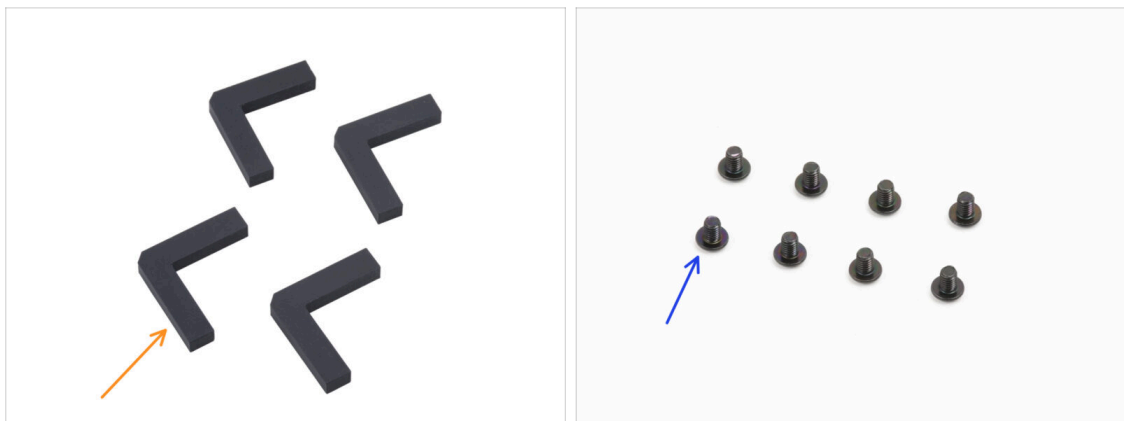
- Attach the universal right profile between the rear and front profile. **Ensure that:**
 - The **rear** end is **above** the rear profile flange.
 - The **front** flange is inserted **under** the front profile.
- Secure the left profile with M3x4rT on both ends.

KROK 14 Inserting the spacer pins



- Insert the spacer pin into the hole in the front profile protrusion.
- Push firmly on the spacer pin so that it fits perfectly into the hole.
- Use the same procedure for the second spacer pin.

KROK 15 Anti-vibration feet: parts preparation



● For the following steps, please prepare:

- Anti-vibration foot (4x) found in the *Electronics & Chamber parts package*
- Šroub M3x4rT (8x)

KROK 16 Installing the anti-vibration feet



- Place the bottom frame according to the picture. The front profile must be facing you.



Before applying the anti-vibration feet, **wipe the metal profiles with isopropyl alcohol** and let them dry. This ensures proper adhesion.

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

⚠ Z každé antivibrační nožičky odstraňte opatrně **pouze ochrannou fólii**. Pokud se spolu s fólií začne odlepovat i lepicí vrstva, přestaňte a pokračujte v odstraňování z jiného rohu.

- Do každého rohu rámu nalepte jednu antivibrační nožičku tak, aby byla zarovnaná s vnějším okrajem ploché strany profilu.

KROK 17 Installing the bottom frame



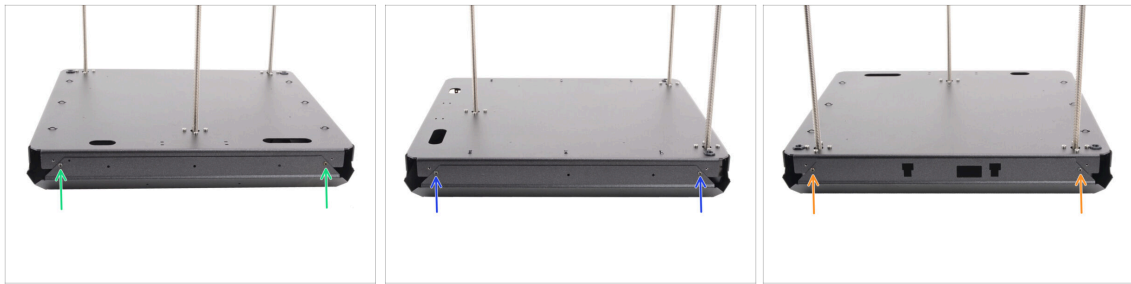
- 🔵 Turn the bottom frame upside down. **The front profile must be facing you.**
- 🟡 Attach the rear side of the bottom panel assembly to the rear side of the bottom frame.
- 🟠 Ensure that the front side of the bottom panel assembly (with two motors) aligns with the front profile of the bottom frame (with cutouts).
- 🟣 Place all the motor cables inside the center area of the bottom frame to prevent pinching.
- 🟢 Teď sestavu spodního panelu pomalu a opatrně spusťte dolů a zasuňte ji do profilů spodního rámu.
 - ⬛ 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



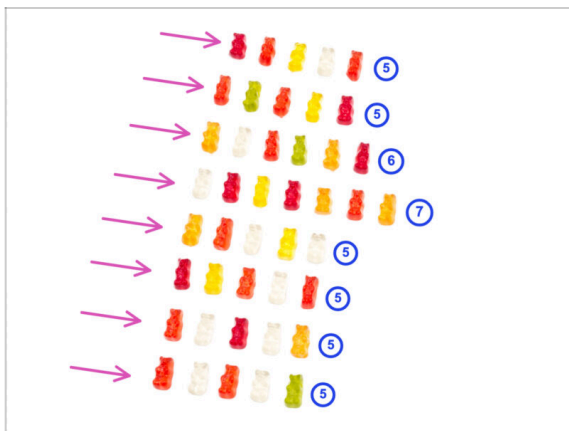
- ⬛ Focus on the front right corner and right side.
- 🟡 Slightly lift one of the corners of the bottom panel assembly.
- 🟢 Align the threaded hole in the bottom panel with the hole in the profile.
- 🟢 Join both parts together with the M3x4rT screw.
- ⬛ Teď se přesuňte k zadnímu rohu pravé strany celé sestavy.
- 🟣 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



- Move to the rear side of the assembly (side with one Z motor).
- Align holes in the base assembly and the profile and secure it with two M3x4rT screws.
- Focus on the left side of the assembly.
- Align holes in the base assembly and the profile and secure it with two M3x4rT screws.
- Otočte si sestavu předním profilem (s výřezy) k sobě.
- Align holes in the base assembly with the profile and secure them using two M3x4rT screws.

KROK 20 Je čas na Haribo!



- It's time to reward yourself!
- Stack your gummy bears in eight rows.
- 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.
- Snězte první řadu.

KROK 21 Hotovo



- **Congratulations!** You just assembled the **base assembly**.
- Set the assembly aside for now and let's move to the next chapter.

3. Back assembly



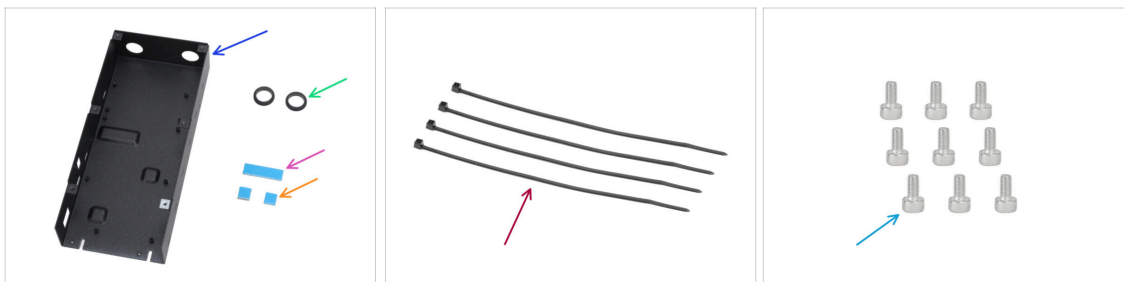
KROK 1 Tools necessary for this chapter



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

- Philips (PH2) screwdriver
- Needle-nose pliers
- 2.5mm Allen key
- T10 torx key / T10 torx screwdriver

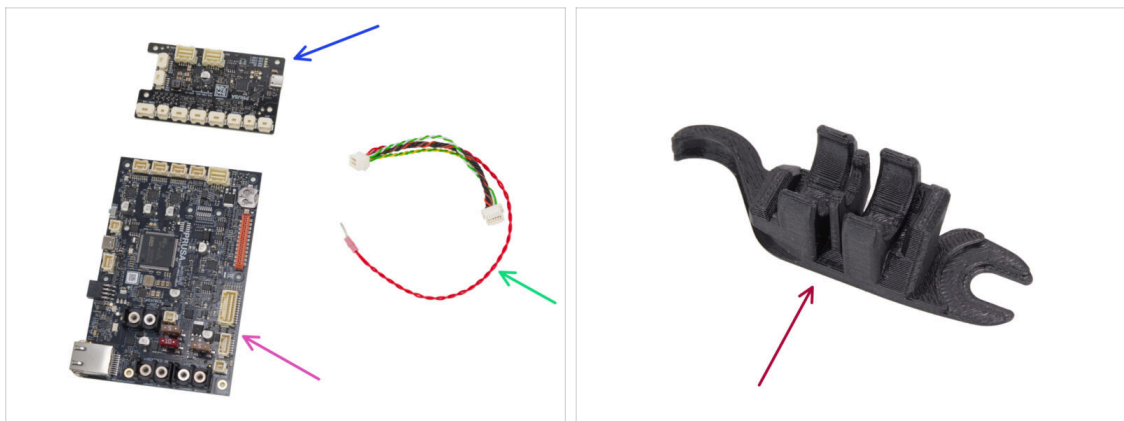
KROK 2 xBuddy: parts preparation I.



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

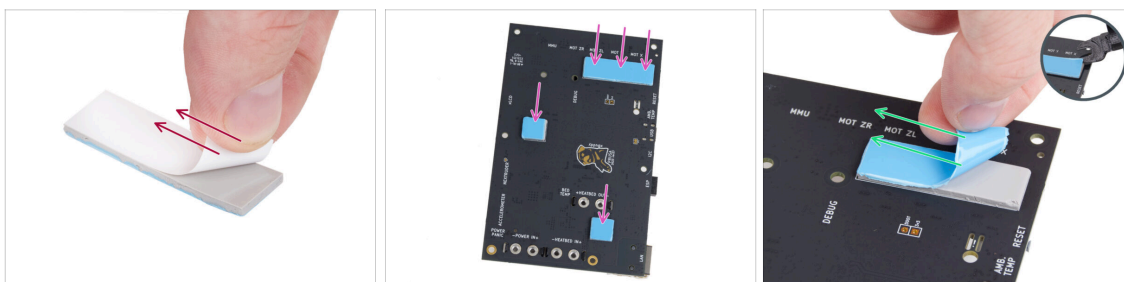
- CORE One xBuddy box (1x) *found in the Metal parts 3/3 package*
- Grommet 19/16 mm (2x) *found in the Electronics & Fasteners package*
- samolepící teplovodivá podložka 40x12x2,2 mm (1x) *naleznete v balíčku Electronics & Fasteners*
- Thermal pad 12x12x2.2 mm (2x) *found in the Electronics & Fasteners package*
- Zip tie (4x)
- M3x6 screw (9x)
- **i** The list continues in the next step...

KROK 3 xBuddy: parts preparation II.



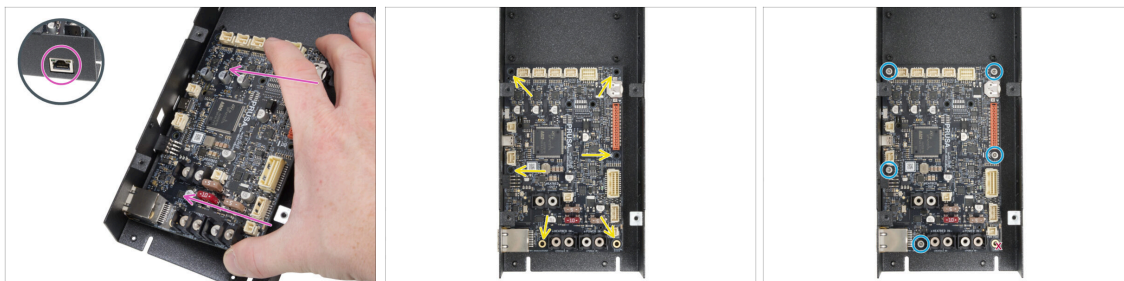
- xBuddy extension board (1x) found in the Electronics & chamber package
- xBuddy board (1x)
- xBuddy extension cable (1x) found in the Electronics & Fasteners package
- Assembly-multi-tool (1x) naleznete v balíčku Printed parts

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.
- ① Ujistěte se, že je povrch pro přilepení podložky očištěn a odmaštěn.
- ⚠ **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.
- ① 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.

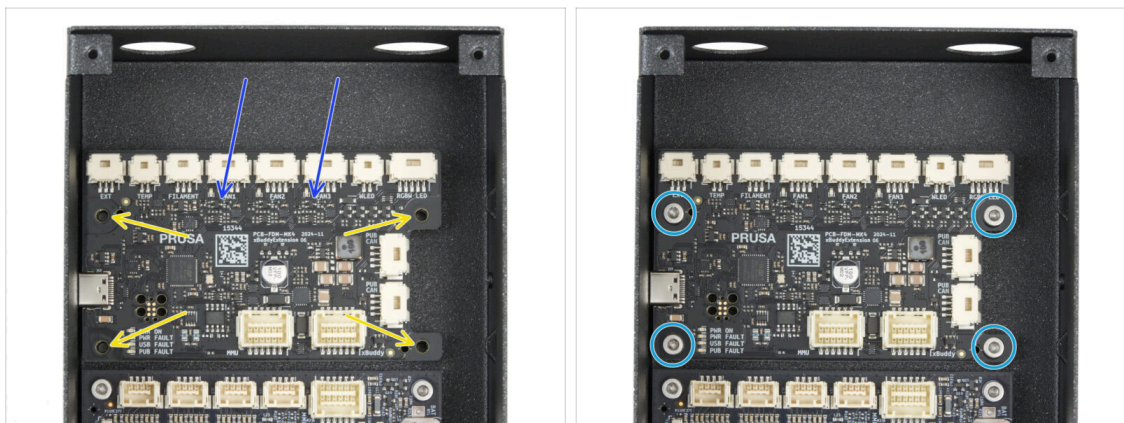
KROK 5 Installing the xBuddy



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

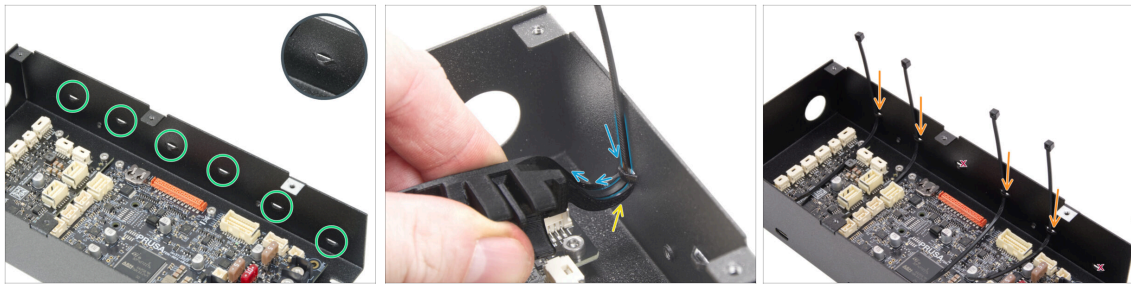
- ✿ Insert the xBuddy board to the xBuddy box.
 - Make sure the Ethernet connector is properly inserted into the hole in the xBuddy box.
- ✿ **Before fully securing, align the board's holes with the xBuddy box's threaded standoffs.**
- ✿ Fix the position of the xBuddy board by inserting five M3x6 screws. 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



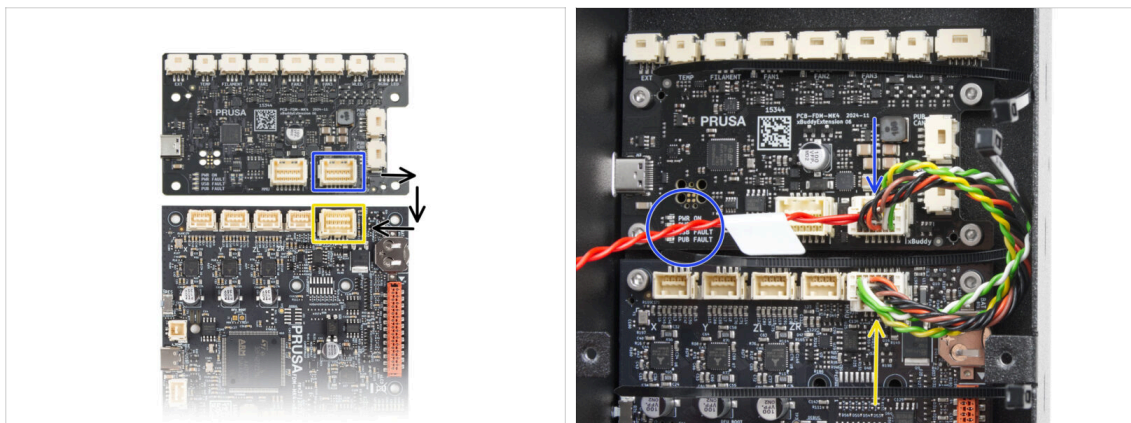
- ✿ Insert the xBuddy extension board to the xBuddy box above the xBuddy board. Notice the part orientation.
- ✿ Before fully attaching it completely, center the holes in the board with the holes (columns) in the xBuddy box.
- ✿ Fix the position of the xBuddy extension board by inserting four M3x6 screws.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

KROK 7 Installing zip ties



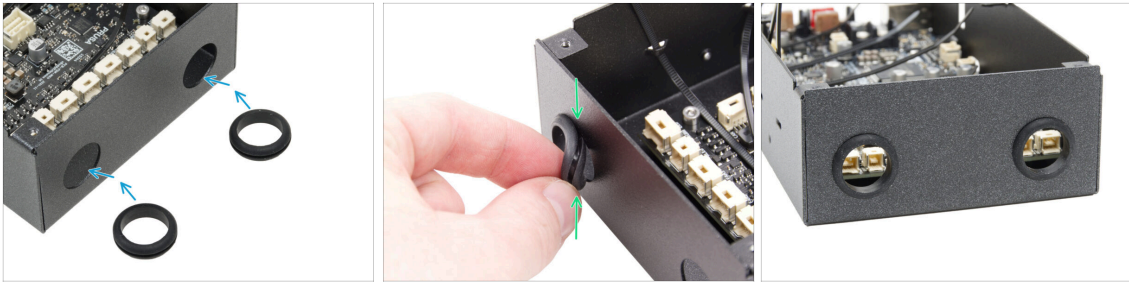
- Take a closer look at the xBuddy box. There are six perforations on the metal case.
- ⚠ Proceed very carefully. Be careful not to damage the connectors or capacitors on the xBuddy board.**
- Attach the hook on the Assembly-multi-tool below the first perforation on the left.
- Push the zip tie through 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



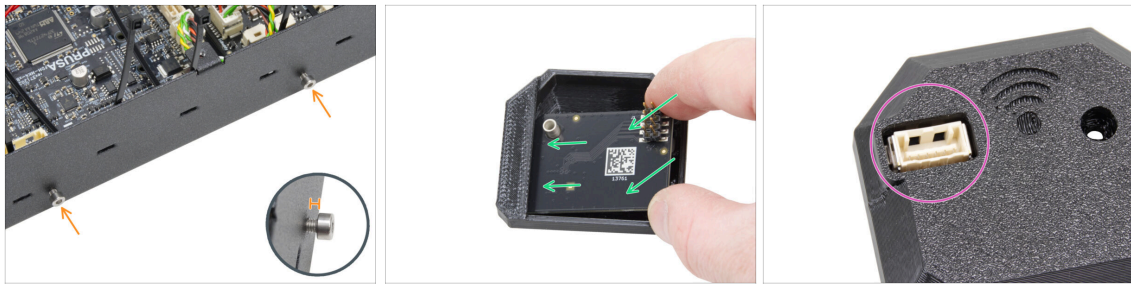
- Insert both grommets into both circle holes in the xBuddy box.
- Gently compress the grommet and fit it into the metal sheet, ensuring the groove locks into place

KROK 10 Wi-Fi: parts preparation



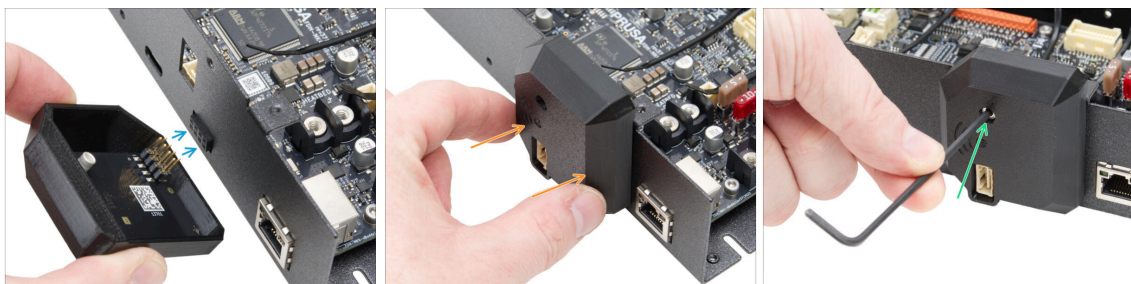
- For the following steps, please prepare:
- ESP-WiFi (1x) *reused from the MK4S*
- CORE-One-Wifi-cover (1x) *found in the Printed parts package*
- M3x12 screw (1x)
- M3x6 screw (2x)

KROK 11 Assembling the Wi-Fi



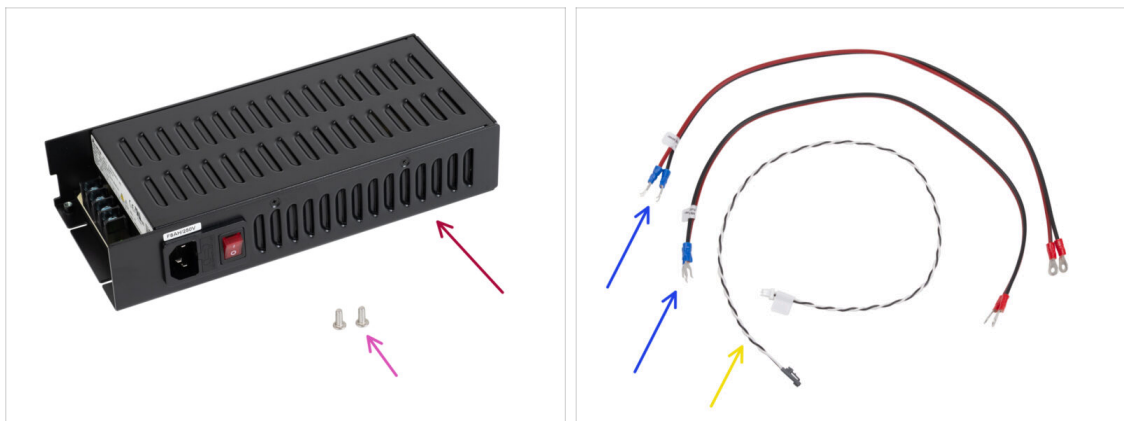
- ✚ Insert two M3x6 screw to the xBuddy box assembly from the right side. **Do not tighten them completely.** Leave at least a 4 mm (0.16 in) gap.
- ✚ Insert the ESP-WiFi module into the WiFi-cover, positioning it just below the bridge on the left side.
- ✚ On the other side, ensure the connector fits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

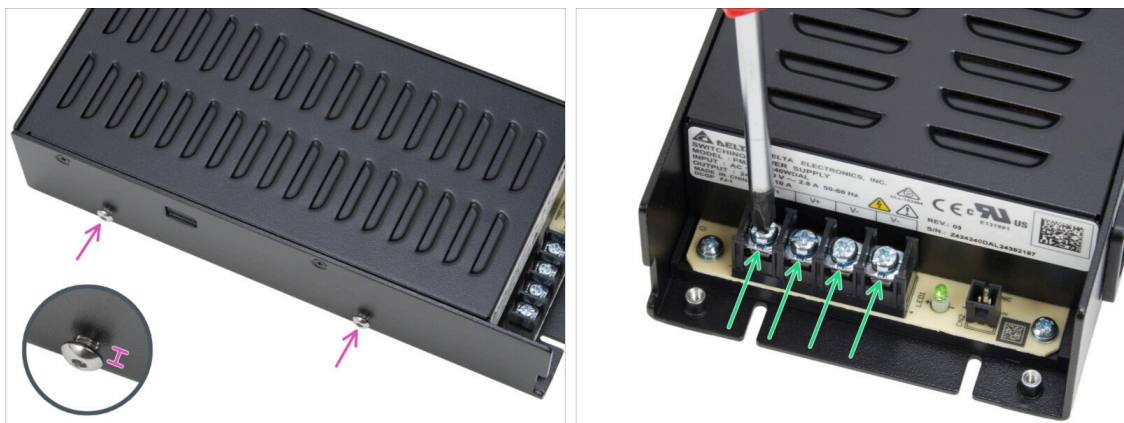
M4x6r screw (2x)

xBuddy power cables (2x)

Power panic cable (1x)

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

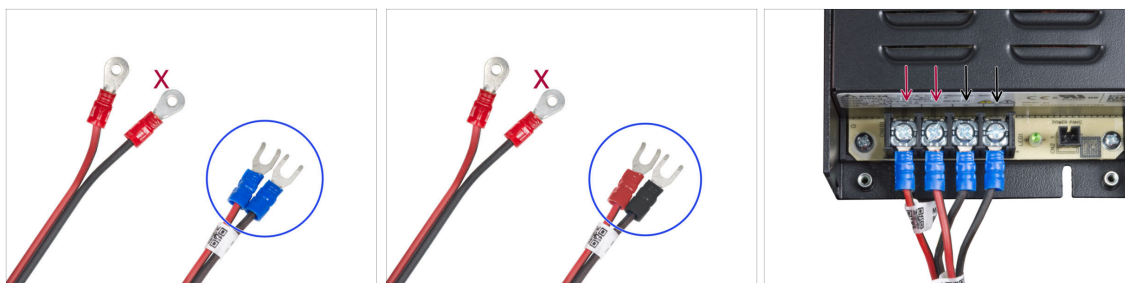
KROK 14 Preparing the PSU



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.

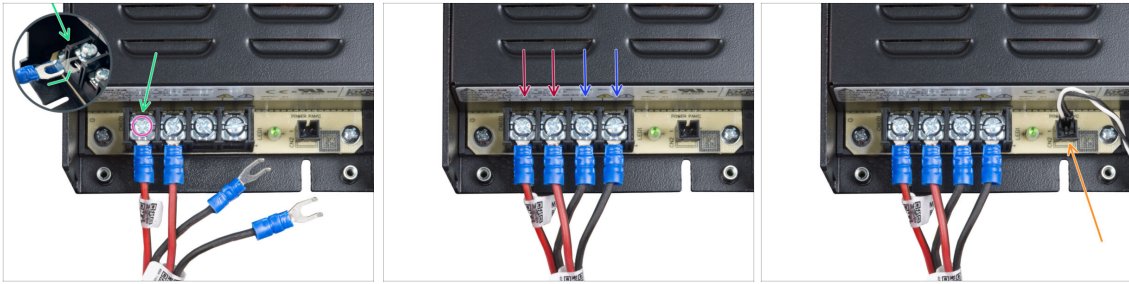
Slightly loosen all four power terminal screws on the PSU. **Do not remove them.** 3-4 turns are enough.

KROK 15 Power cables info



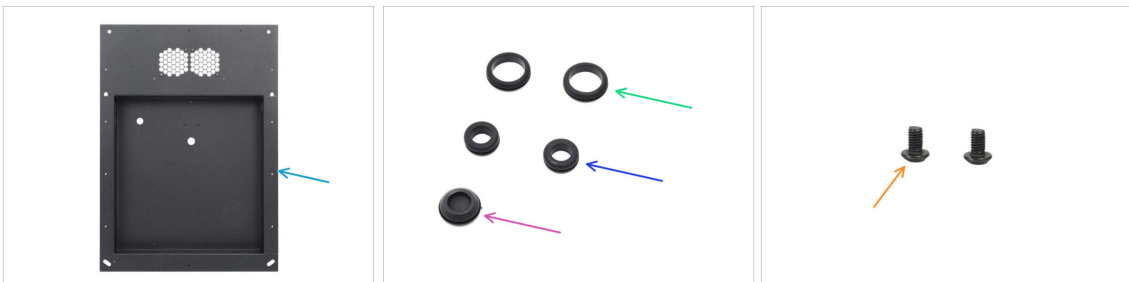
- ⓘ In the following steps, we will be connecting the power cables one by one. The terminal screws are installed on the PSU already. Loosen them but **don't remove them completely** so they don't get mixed up with the other type of screws used on the xBuddy board side of the cable. Each of the two power 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+)
 - 🔴 Positive (V+)
 - ⬛ Negative (V-)
 - ⬛ Negative (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



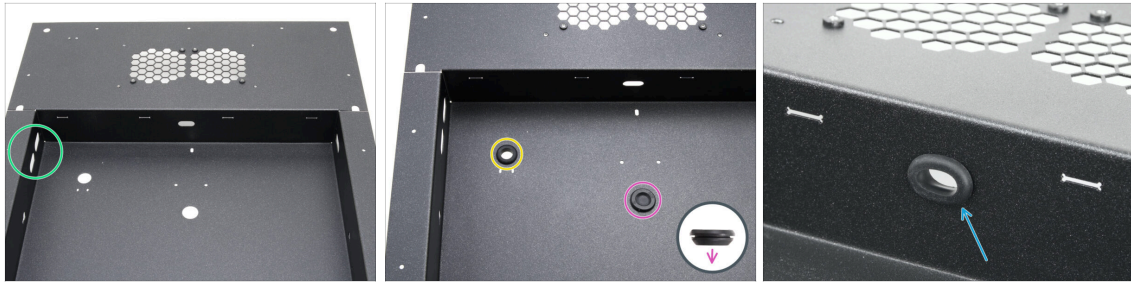
- Take the RED wire and slide the fork connector all the way into the first (positive) terminal from the left on the bottom of the PSU. Make sure the steel washer is above the "fork" connector.
- Tighten the terminal screw firmly.
- Use the same procedure to connect the second red wire to the second 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



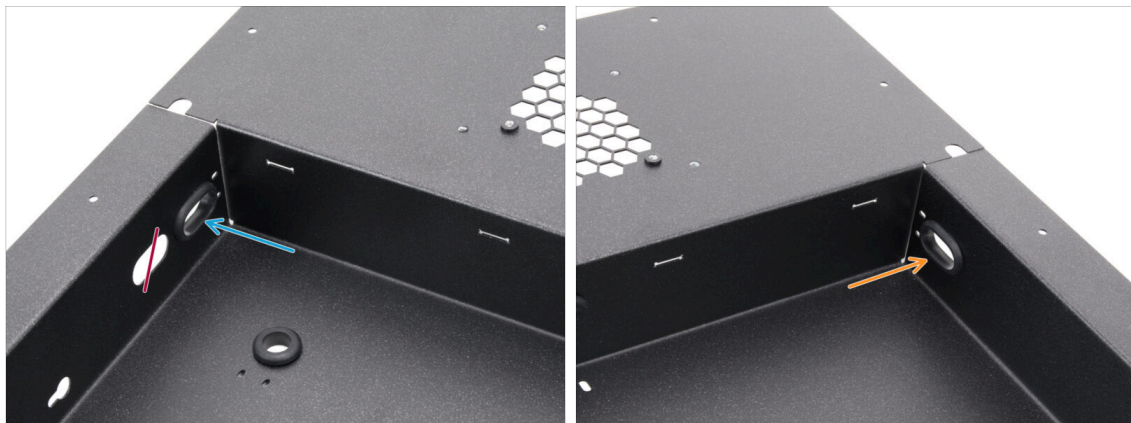
- **For the following steps, please prepare:**
 - Back panel (1x) found in the Metal parts 1/3 package
 - Grommet 19/16 mm (2x) large one - found in the Electronics & Fasteners package
 - Grommet 13.5/10 mm (2x) small one - found in the Electronics & Fasteners package
 - Sealing plug 15.5 mm (1x) found in the Electronics & Fasteners package
 - M3x4rT screw (2x)

KROK 18 Installing grommets: back panel top



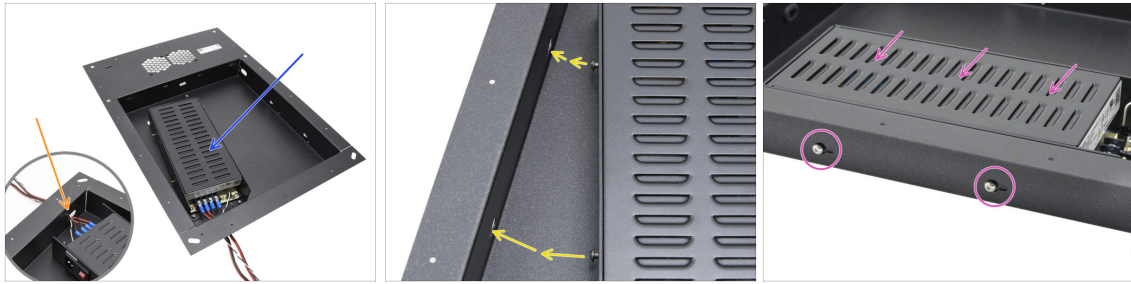
- Position the back panel as shown in the first image. Use the two oval holes as a reference.
- Insert the sealing plug into the center hole.
 - The sealing plug is not symmetrical.** Insert the side with the smaller diameter facing downward.
- Insert one small grommet to the left circle hole.
- Insert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

KROK 19 Installing grommets: sides



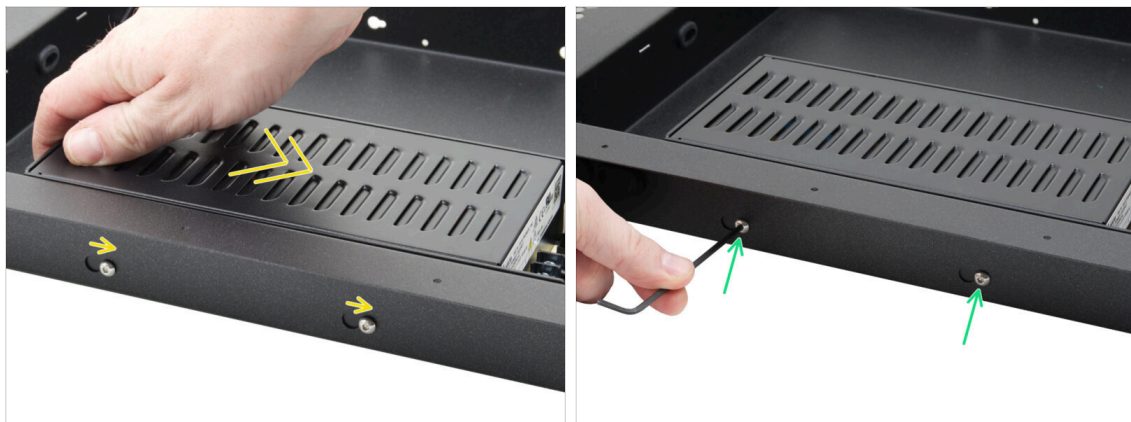
- Focus on the left top side of the back panel and locate two oval holes.
- Insert one large grommet into the oval hole closest to the corner.
- Move to the right top side of the back panel and insert one large grommet to the oval hole.

KROK 20 Aligning the PSU



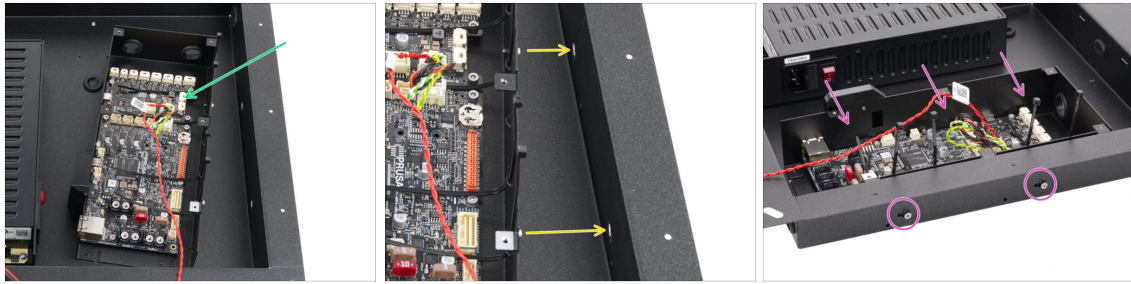
- Carefully insert the PSU into the rear panel pocket.
- Push the cable bundle through the opening on the bottom of the panel.
- Align the screws on the PSU to the holes on the left side of the back panel.
- Slide the PSU so that the screws go through the holes.

KROK 21 Mounting the PSU



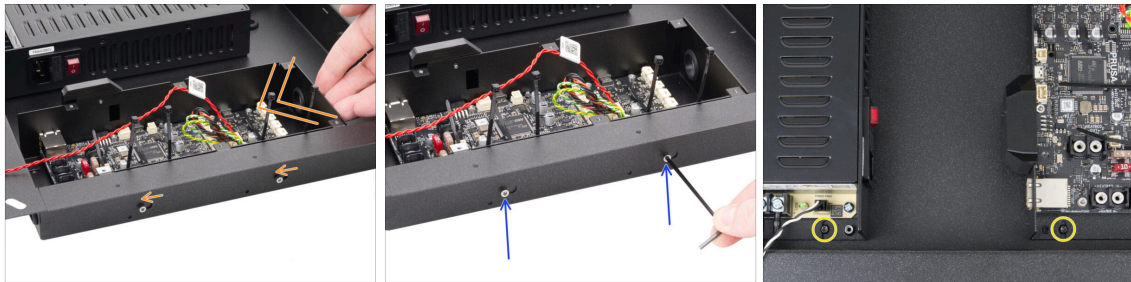
- Gently slide the PSU so that the position of the screws moves to the end position of the keyhole-shaped holes.
- Maintain the PSU position and fully tighten both screws.

KROK 22 Aligning the xBuddy box assembly



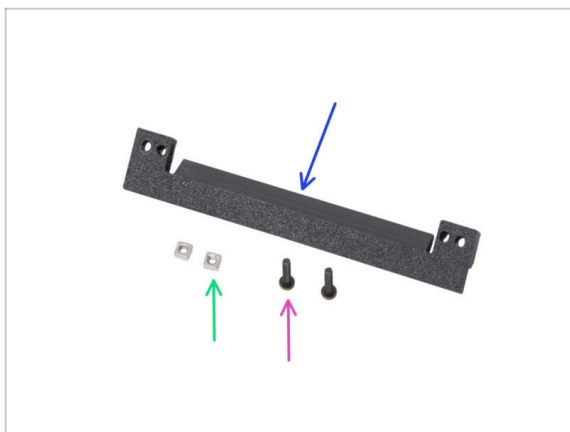
- Carefully insert the xBuddy box assembly into the rear panel pocket.
- Align the screws on the xBuddy box to the holes on the right side of the back panel.
- Slide the xBuddy box so that the screws go through the holes.

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



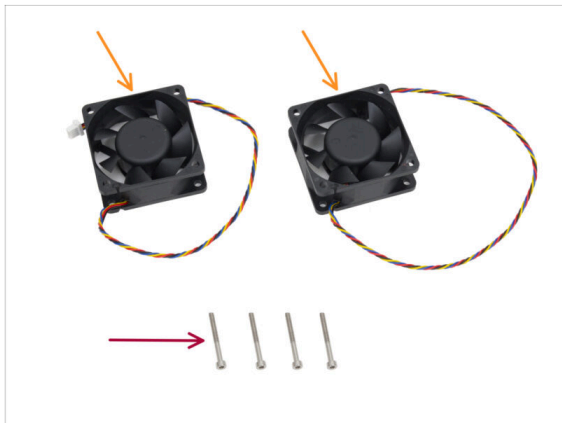
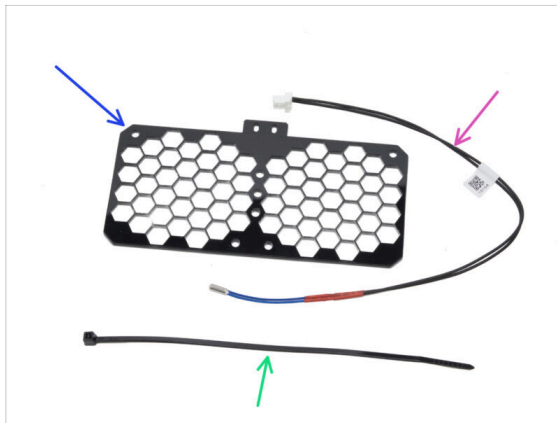
- Insert one M3nS nut into the hole on each end of the PSU-cable-cover.
- Ensure the holes are aligned.

KROK 26 PSU-cable-cover installation



- 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.

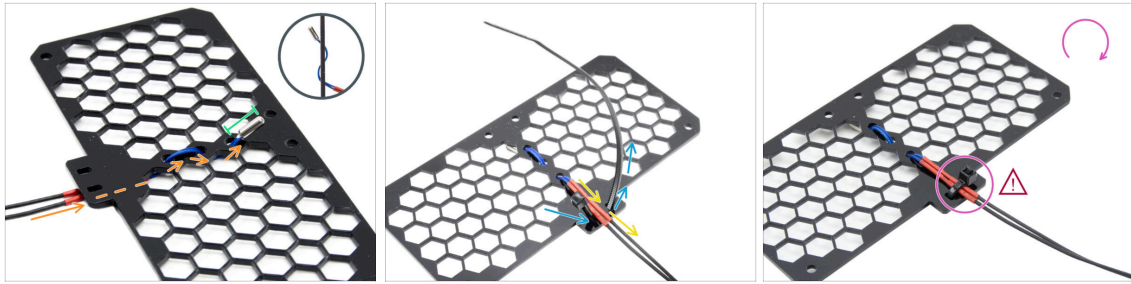
KROK 27 Chamber fans: parts preparation



For the following steps, please prepare:

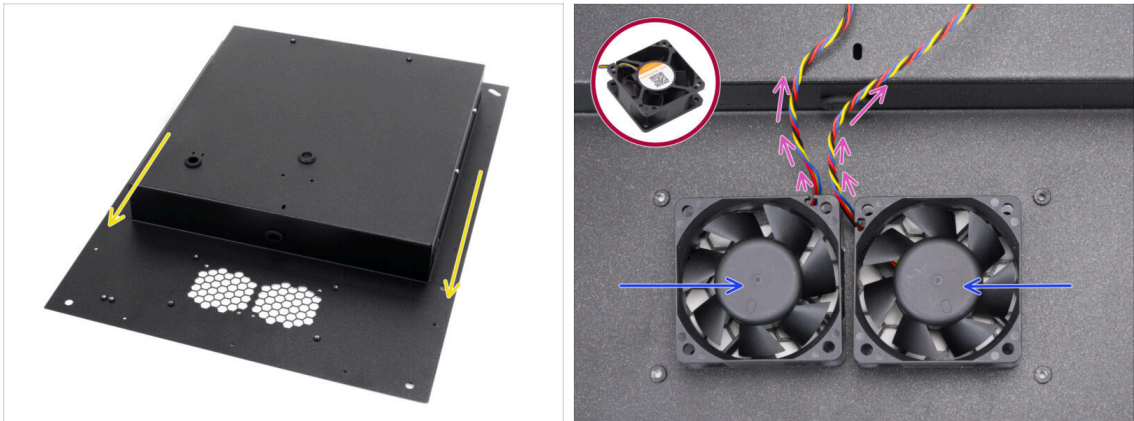
- Fan grid (1x) found in the Electronics & Chamber parts package
- Chamber thermistor 260 mm (1x) found in the Electronics & Chamber parts package
- Zip tie (1x)
- Cooling fan (2x) found in the Electronics & Chamber parts package
- M3x30 screw (4x)

KROK 28 Assembling the fan grid



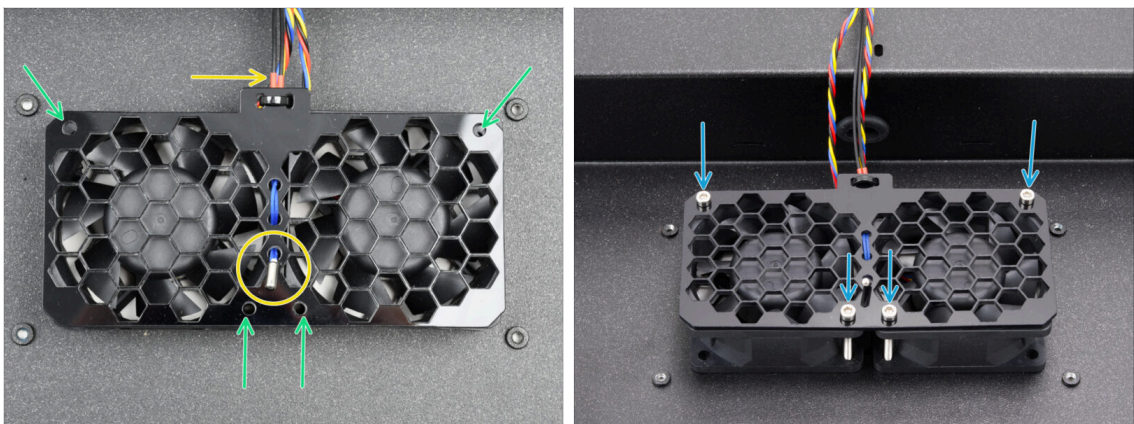
- Guide the thermistor cable under the grid. Thread it in the direction shown in the picture.
 - i The grid has both sides the same.
- Leave the whole thermistor part sticking out.
- Turn the grid over and push the zip tie through the pair of holes on the grid's protrusion.
- Route the thermistor cable 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



- ✦ Položte sestavu mřížky ventilátorů na ventilátory.
 - ⚠ **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



Pro následující kroky si prosím připravte:

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

i 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



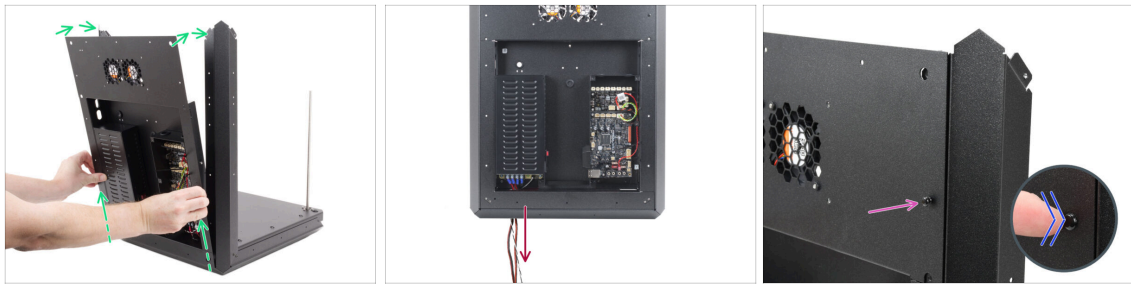
- Vezměte sestavu základního panelu rámu tiskárny (z kapitoly 2.) a otočte si ji tak, aby zadní strana (ta s jedním motorem uprostřed) směřovala k vám.



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



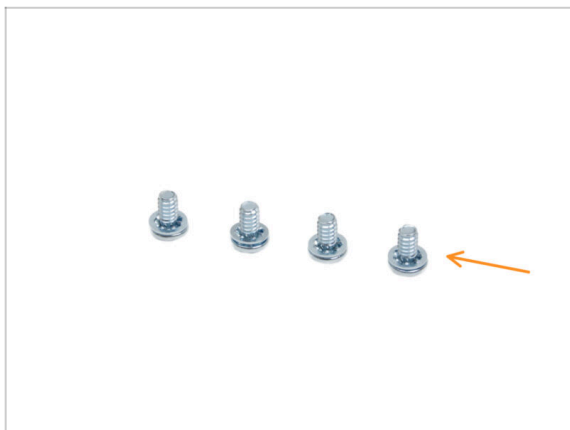
-  Slightly lift the back assembly and gently place it on the base assembly and rear profiles.
-  Pull the power cables through the opening in the bottom assembly.
-  Insert one nylon rivet through the rear panel and rear profile on the top right side.
-  Push the rivet head with your finger until it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

KROK 34 Securing the Back panel



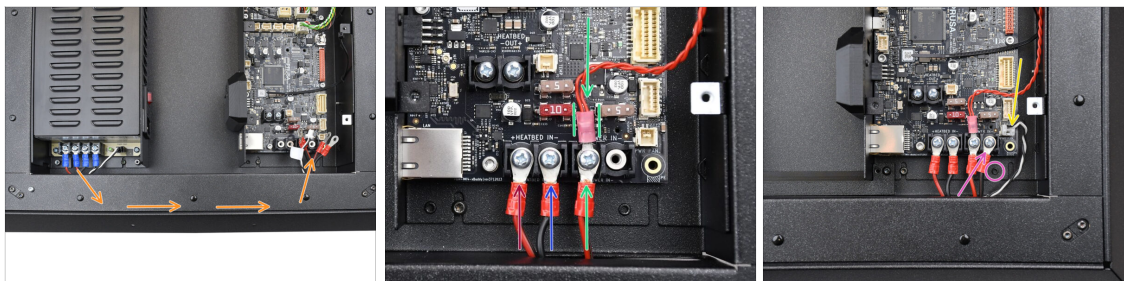
-  Install all eleven nylon rivets around the back panel assembly to secure it.
 -  Install the 2.9x6.5 self-tapping screw into the bottom left opening on the back panel.
-  Don't overtighten to avoid stripping the self-tapping thread.

KROK 35 Power Terminal Screws Preparation



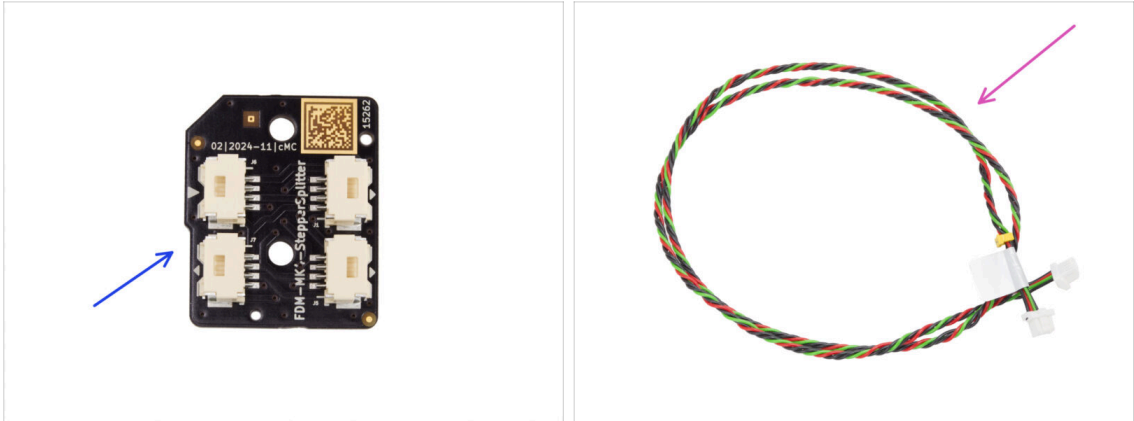
- For the following steps, prepare:
- 6-32 Power Terminal Screw (4x)

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:

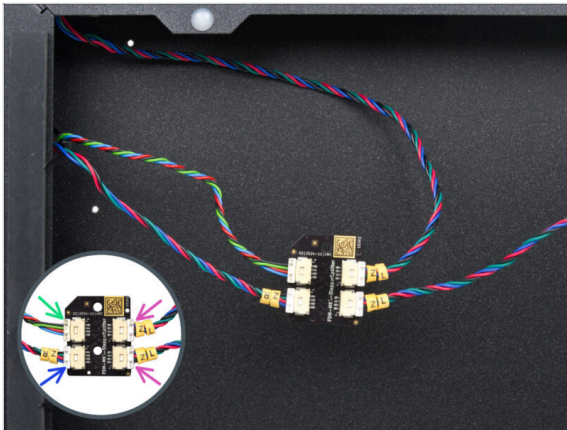
- Stepper splitter (1x) found in the *Electronics & Chamber parts package*
- Stepper splitter cable (1x) found in the *Electronics & Fasteners package*

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.
- i** 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:

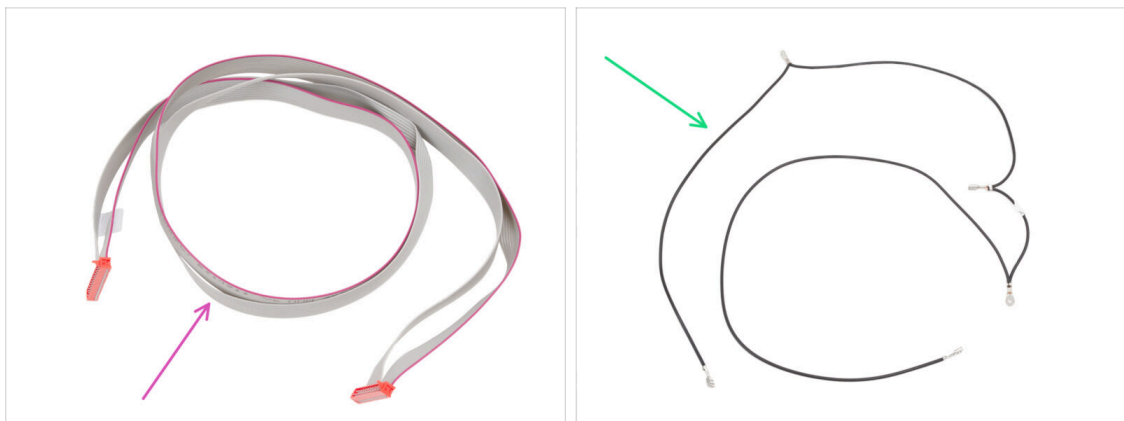
- Stepper splitter cable
- Z-axis motor R
- Z-axis motor L
- Z-axis motor L

KROK 40 Osazení Stepper Splitteru



- 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.
- ① 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 kabel: příprava dílů



● For the following steps, please prepare:

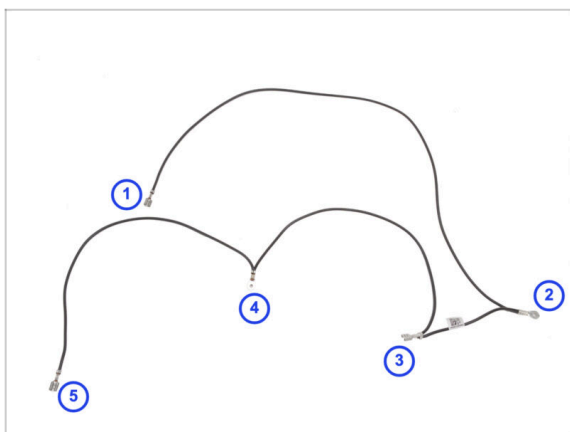
- xLCD cable (1x) found in the Electronics & Fasteners package
- Main FE cable (1x) found in the Electronics & Fasteners package

KROK 42 Vedení kabelu LCD



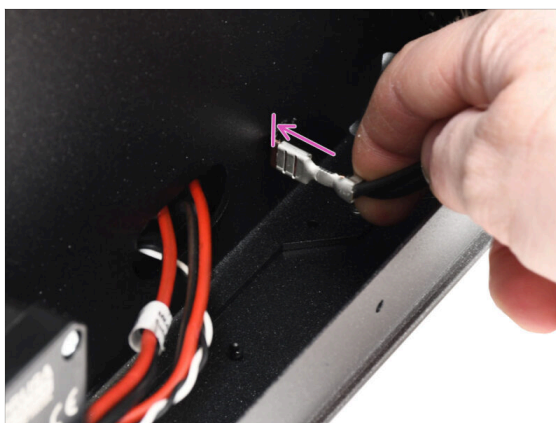
- Guide the Stepper splitter cable through the oval hole to the electronics.
- Take the end of the xLCD cable with the QR code label.
- Push a few centimeters of the xLCD cable (the end with the QR code label) through the oval hole in the bottom panel.
 - ⓘ The cable must be slightly folded to pass through 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 Informace o hlavním kabelu FE



- 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 Zapojení FE kabelu (č. 3)



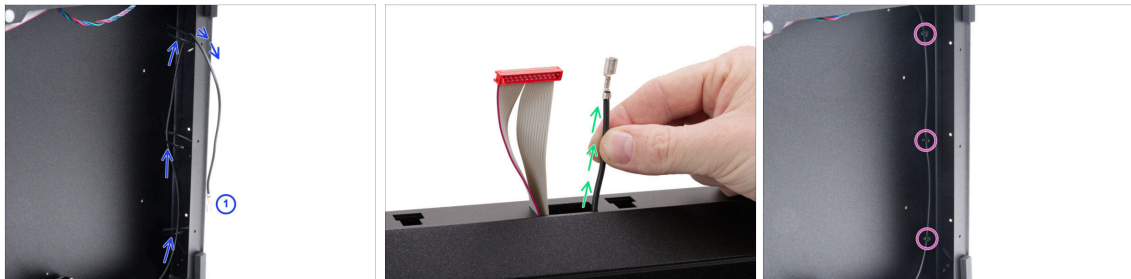
- Prepare the connector number 3.
- ⓘ That's the female faston connector in the middle of the cable.
- Najděte si „samčí“ fastonový konektor v pravém dolním rohu.
- Slide the FE cable connector completely onto the Faston connector.

KROK 45 Vedení FE kabelu (č. 2)



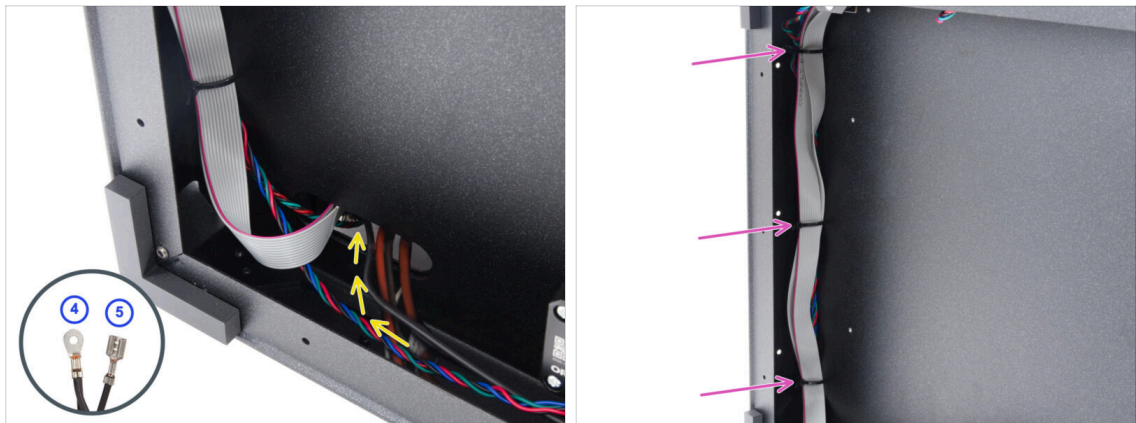
- Take the FE cable connector number 2.
- ⓘ The round connector nearby.
- Konektor navolno zasuňte do otvoru ve spodním panelu.

KROK 46 Vedení FE kabelu (č. 1)



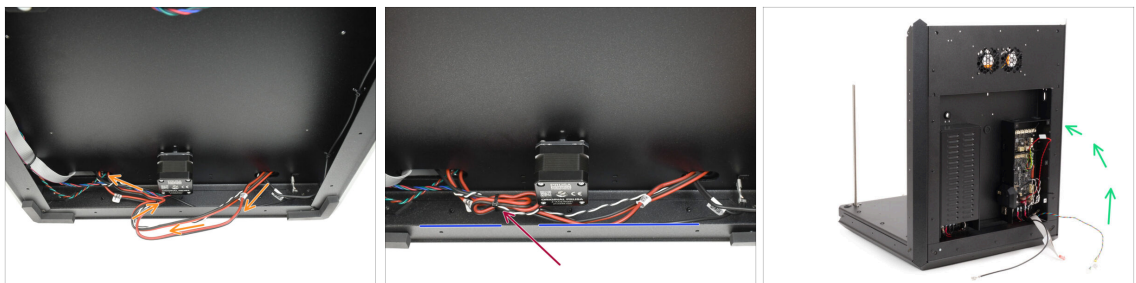
- Take the connector number 1 and guide it through the zip ties on the right side of the frame.
- ⓘ That is the long part with just one faston connector at the end.
- Konektor protáhněte obdélníkovým otvorem v předním profilu. Nechte cca 6 cm kabelu vyčnívat.
- Leave the cable hang freely for now.
- Tighten all three zip ties. Cut off the excess.

KROK 47 Vedení FE kabelu (č. 4 a 5)



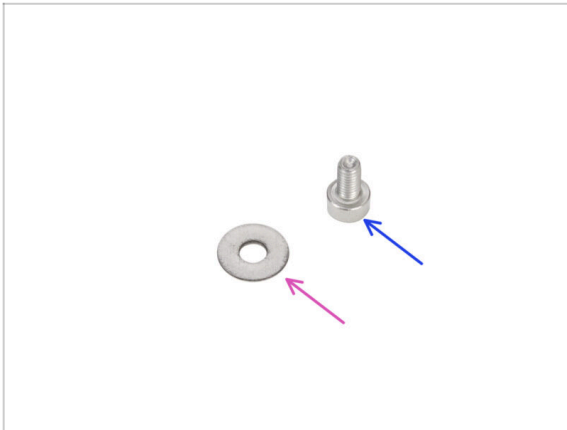
- ◆ Take the FE cable connectors number 4 and 5.
- ◆ Push both connectors through the leftmost hole in the bottom. Leave them free for now.
- ◆ Utáhněte všechny tři stahovací pásky na levé straně rámu a přebytečné části pásek odřízněte. (Opatrně, ať nepoškodíte kabely.)
 - ◆ There's no need to fully 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.
 - ◆ Dbejte na to, aby kabely byly v přiměřené vzdálenosti od kovového profilu a zároveň aby nebyly příliš napnuté.
 - ⚠ 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 kabel - xBuddy: příprava dílů



● For the following steps, please prepare:

● M3w washer (1x)

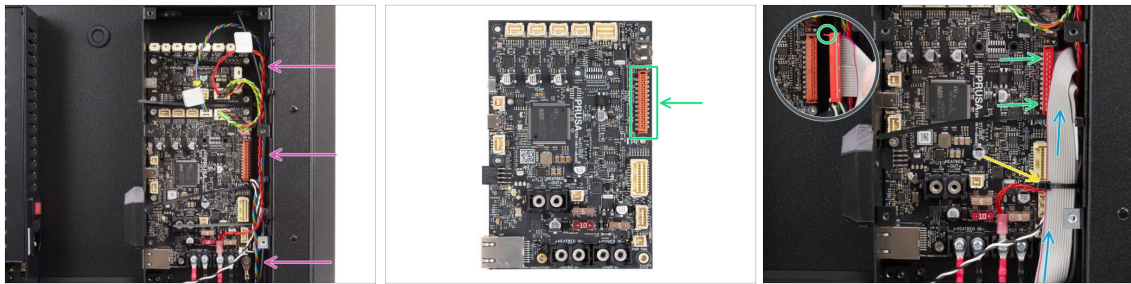
● M3x6 screw (1x)

KROK 50 Zapojení FE kabelu: xBuddy



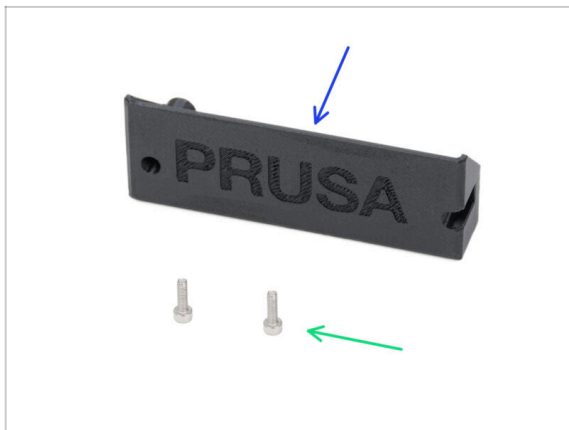
- Put the printer back on its feet. And focus on the rear side.
- Take the connector number 4 and connect it to the xBuddy using the M3x6 screw and M3w washer.
 - ⚠ Podložka M3 musí být mezi hlavou šroubu a konektorem kabelu.
- Guide the FE cable (number 5) alongside the xBuddy box and pass it through 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 Zapojení kabelu xLCD



- ◆ 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.
- ◆ Umístěte xLCD kabel nad ostatní kabely a veděte jej směrem nahoru.
- ◆ 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



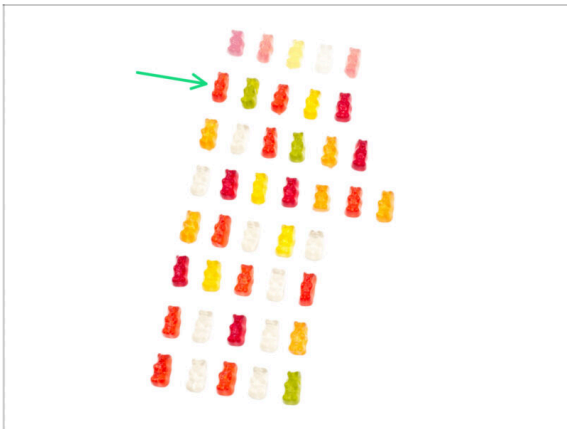
- ◆ For the following steps, please prepare:
- ◆ CORE-One-PSU-cover (1x) found in the Printed parts package
- ◆ M3x10 screw (2x)

KROK 53 Zapojení FE kabelů: zdroj napájení



- 🔵 Remove the screw from the PSU board. **Do not discard it!**
- 🟡 Ensure the FE connector (number 2) is routed into the PSU compartment.
- 🟣 Šroub, který jste z desky PSU vyšroubovali vložte do konektoru FE kabelu a zašroubujte jej zpět do desky.
 - ⬛ 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.
- ⚠️ **Ale nepodvádět - snězte pouze předepsaný počet!**

KROK 55 Done



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

4. Heatbed assembly

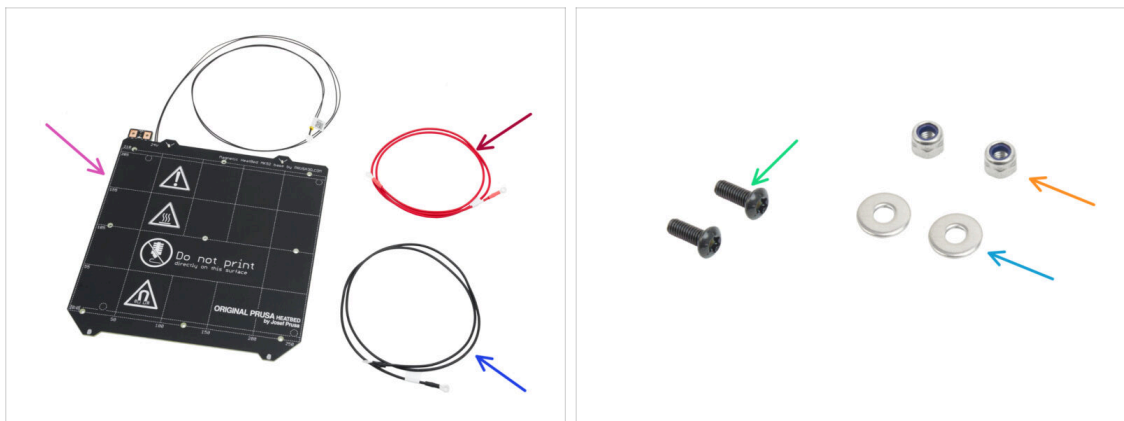


KROK 1 Tools necessary for this chapter



- **Pro tuto kapitolu si prosím připravte:**
- Needle-nose pliers
- Universal wrench
- Wrench 13-16
- Philips (PH2) screwdriver
- 2.5mm Allen key
- 2.0mm Allen key
- T10 torx key / T10 torx screwdriver

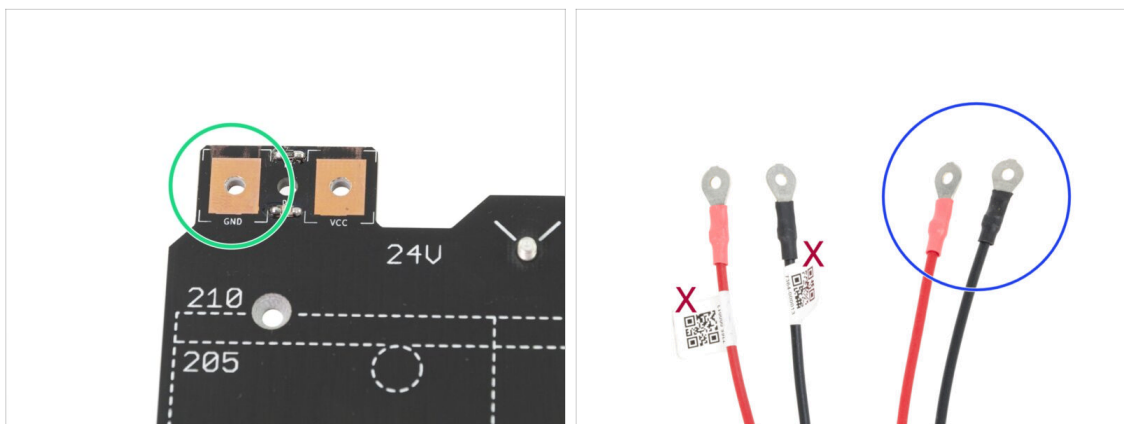
KROK 2 Heatbed: parts preparation



● Pro následující kroky si prosím připravte:

- 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

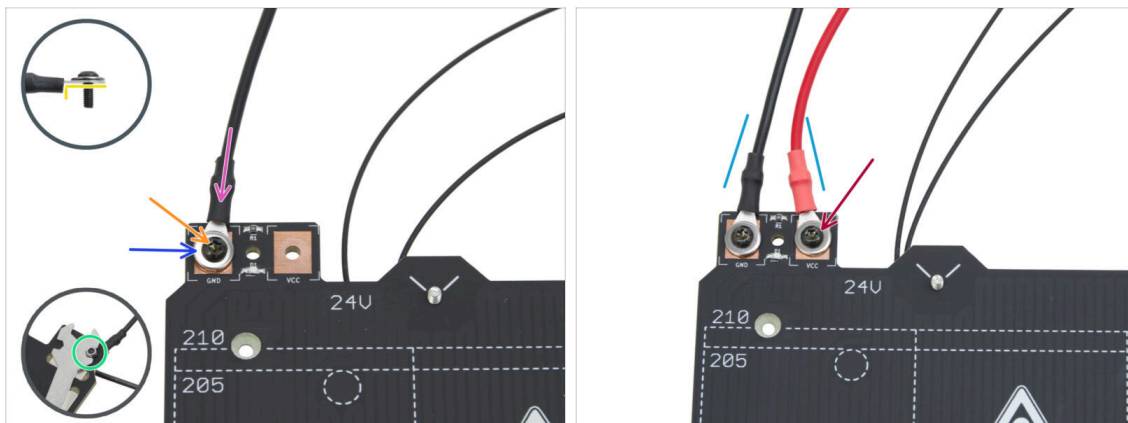


● Postupujte podle značek polarity na vyhřívané podložce:

Svorka označená **GND** by měla být spojena s **ČERNÝM VODIČEM**.

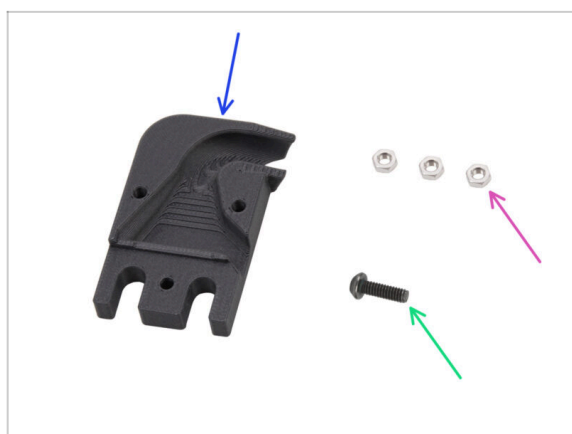
- aTake both power cables. Note the labels on each. Use the unlabeled ends for the heatbed connection.

KROK 4 Heatbed Cable Assembly 2



- ✿ Umístěte černý kabel na kontaktní plochu "GND".
- ✿ 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 M3n 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.**

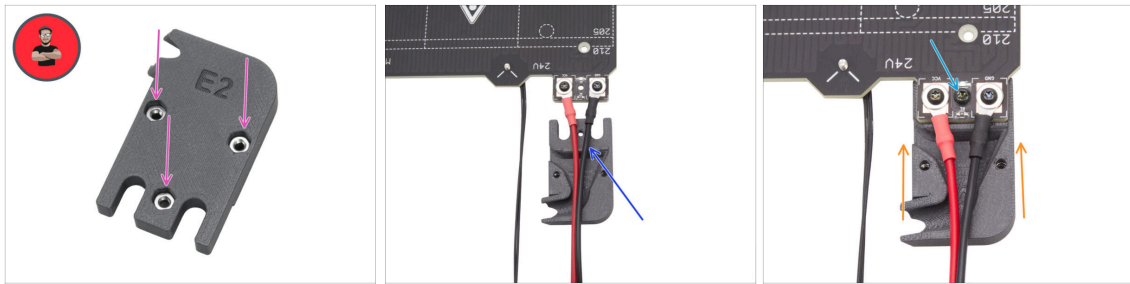
KROK 5 Bed-cable-cover-bottom: parts preparation



✿ Pro následující kroky si prosím připravte:

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

KROK 6 Attaching the cable cover



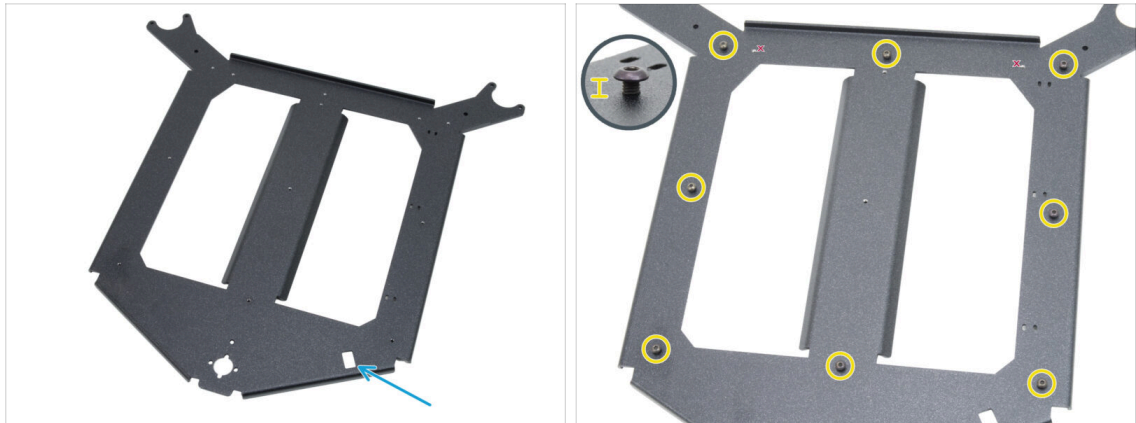
- ✿ Vložte tři matky M3n do dílu Bed-cable-cover-bottom.
- ❗ Pro tip: Use the screw-pulling technique.
- ⬛ Make sure the nuts are fully inserted and held in place.
- 🔵 Insert the Bed-cable-cover-bottom under the heatbed cables. Note the orientation of the part.
- 🟠 Slide the Bed-cable-cover-bottom under 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



- ⬛ **Pro následující kroky si prosím připravte:**
- ✿ 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



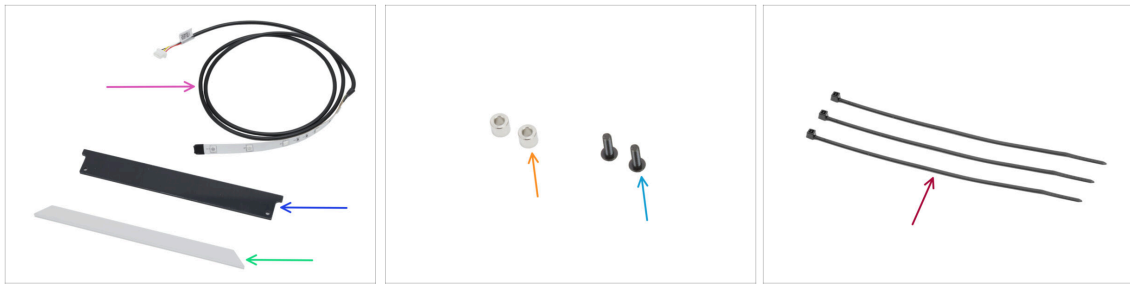
- 🔵 Umístěte carriage vyhřívané podložky před sebe ve stejné orientaci jako na obrázku.
- ⬛ Make sure the **rectangular cutout is facing you on the right side.**
- 🟡 Insert eight M3x4r screws around the heatbed carriage.
- ⚠️ **Nedotahujte úplně, ponechte přibližně 3mm mezeru.**

KROK 9 Installing the expansion joints



- 🟢 Připevněte jednu dilatační podložku k libovolnému šroubu M3x4 ve stejné orientaci jako na obrázku.
- ⬛ Note the U-shaped "groove" for the screw inside the expansion joint - point it towards the screw.
- 🟡 Slide the expansion joint onto the screw.
- 🟠 Uchopte dilatační podložku do obdélníkového výřezu univerzálního klíče.
- ⬛ 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



Pro následující kroky si prosím připravte:

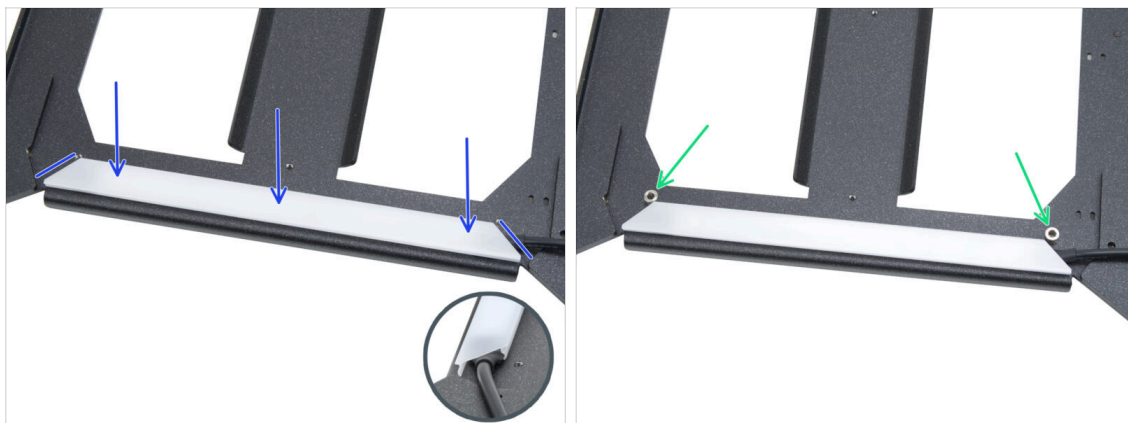
- RGB LED strip 166 mm (1x) *found in the Electronics & Fasteners package*
- ⚠️ **Avoid direct contact with the LED and resistors on the LED strip.**
- krytka stavové LED (1x) *naleznete v balíčku Electronics & Chamber parts*
- LED strip diffuser (1x) *found in the CoreXY parts + Hinges set package*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

KROK 11 Installing the LED strip



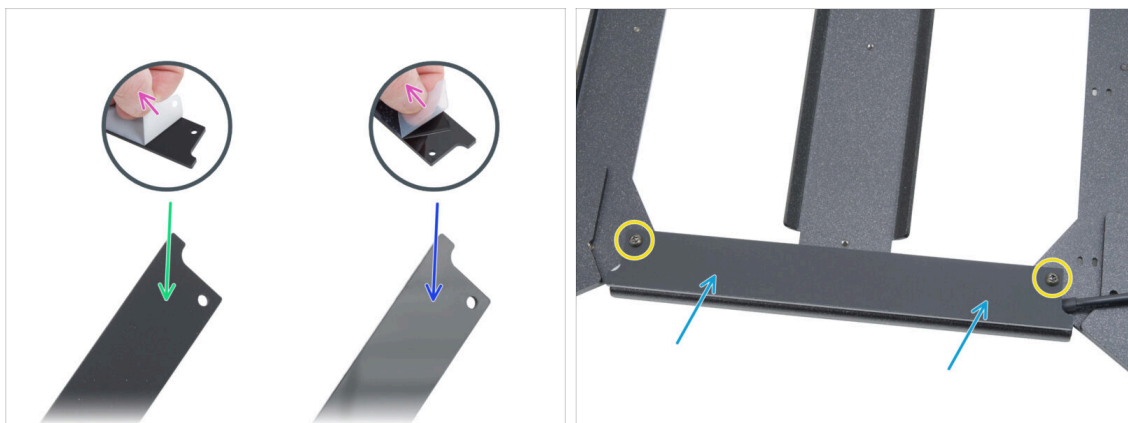
- Umístěte carriage vyhřívané podložky před sebe ve stejné orientaci jako na obrázku.
- Make sure the **rectangular cutout is far from you and on the right side.**
- Carefully peel off the protective (paper) layer from the RGB LED strip.
- ⚠️ **Po odstranění ochranné fólie RGB LED pásek lepí.**
- Stick 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



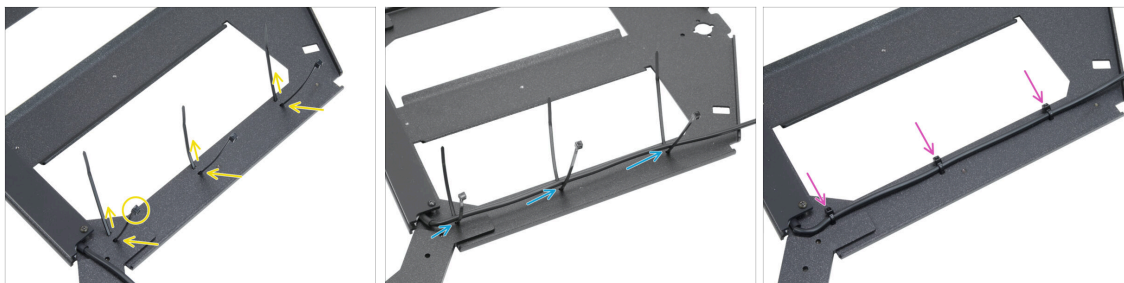
- Umístěte difuzér LED pásku na RGB LED pásek. Všimněte si orientace dílu - podle zkosených hran.
- Place two spacers 3.2/6x5 mm on the holes in the edges of the LED assembly.

KROK 13 Covering the RGB LED strip



- Z obou stran stavového krytu LED sloupněte ochranné fólie.
- Note that one side of the cover is matte.
- The other side of the cover is glossy.
- Připevněte kryt LED pásku k sestavě, **matnou stranou nahoru..**
- 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



- ✦ Tři stahovací pásky provlékněte podél PRAVÉ STRANY carriage vyhřívané podložky. Ujistěte se, že hlavičky stahovacích pásek směřují ven.
- ✦ 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

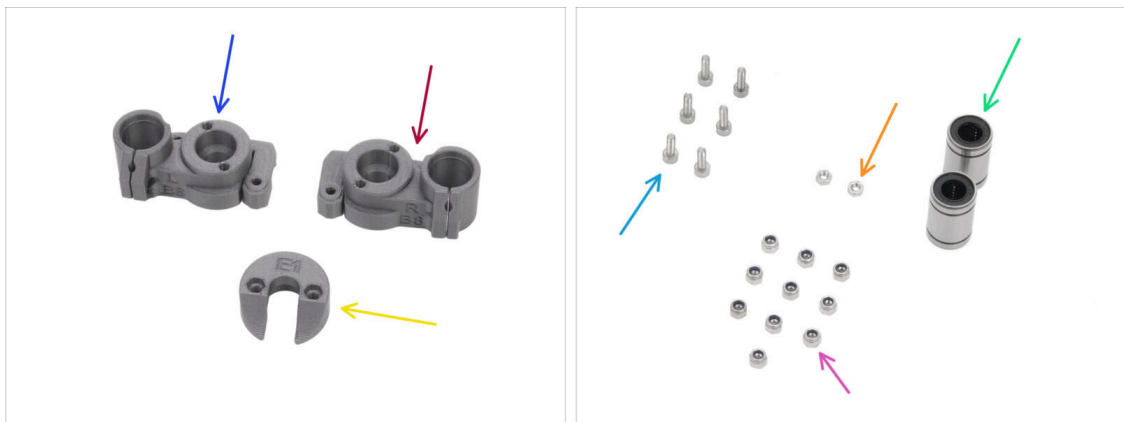


 Use any piece of fabric as a pad to protect your working surface from grease.

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

-  Wipe the preservative oil off the bearing surface with a paper towel.
-  Je nutné namazať všetky 4 rady kuliček uvnitř ložiska.
-  Screw the tube into the applicator.
-  Carefully slide the entire bearing onto the applicator.

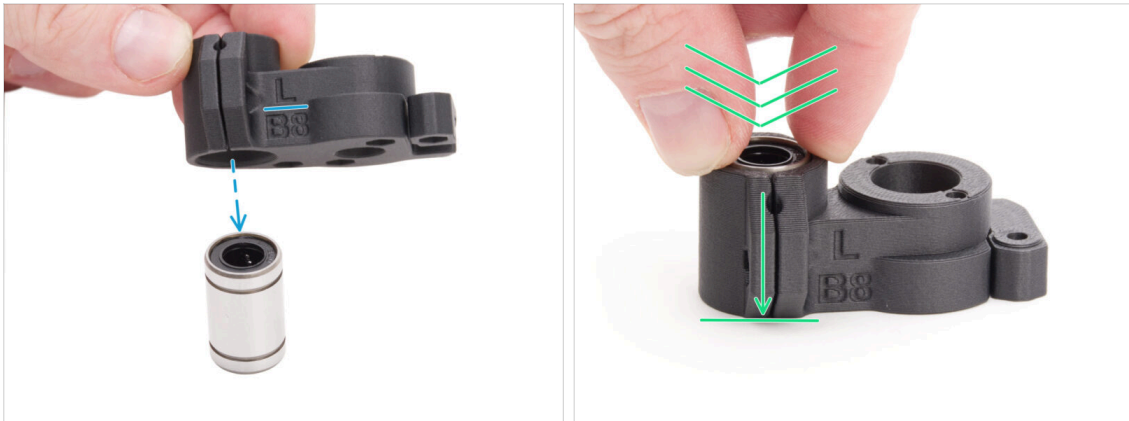
KROK 17 Bed mounts: parts preparation



 **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) *naleznete v balíčku Printed parts*
-  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.
- Stejně postupujte i s 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.
- Udržujte ložisko v dané poloze a zajistěte jej vložím a utažením jednoho šroubu M3x10.
- ⚠ 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



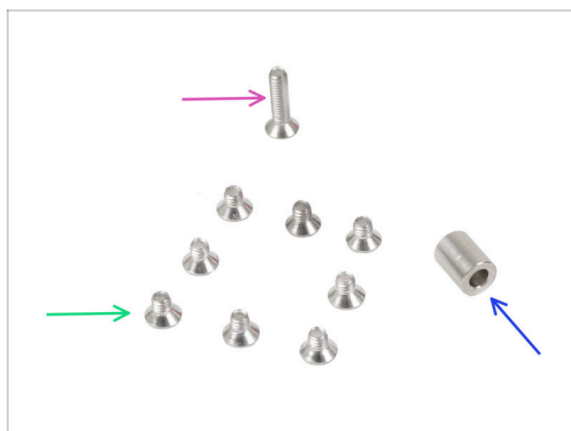
- Turn the heatbed carriage piece with the "forks" facing you and with the **expansion joints facing up**.
- Take the CORE-One-bed-mount-**right** part and slide it **under the right fork** - with the bearing on the right.
- Fix it with two M3x10 screws.

KROK 23 Installing the bed-mount-left



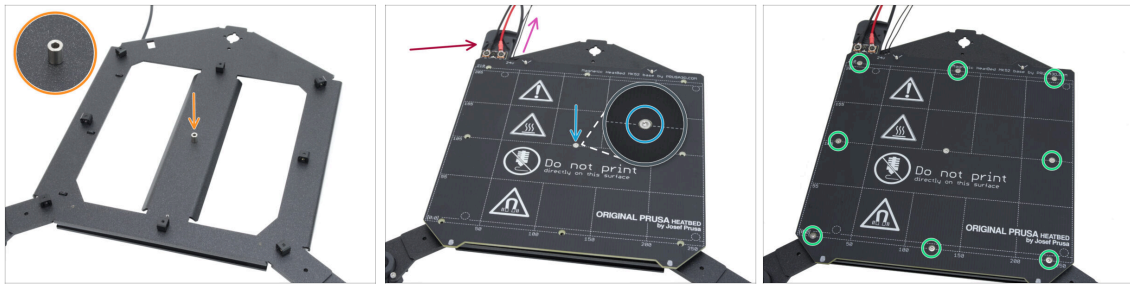
- Take the One-bed-mount-**left** part and slide it **under** the **left** fork - with the bearing on the left.
- Fix it with two M3x10 screws.

KROK 24 Mounting the heatbed: parts preparation



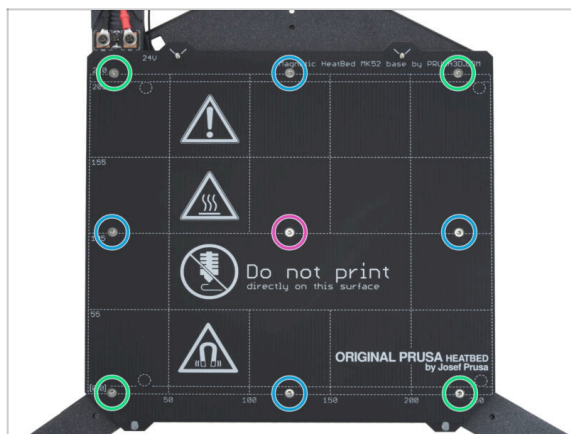
- For the following steps, please prepare:
- M3x12bT screw (1x)
 - i* The screw may also be labeled M3x12cT.
- Podložka 6x3.1x8 mm (1x) z *rozložené tiskárny*
- M3x4bT screw (8x)
 - i* The screw may also be labeled M3x4cT.

KROK 25 Mounting the heatbed



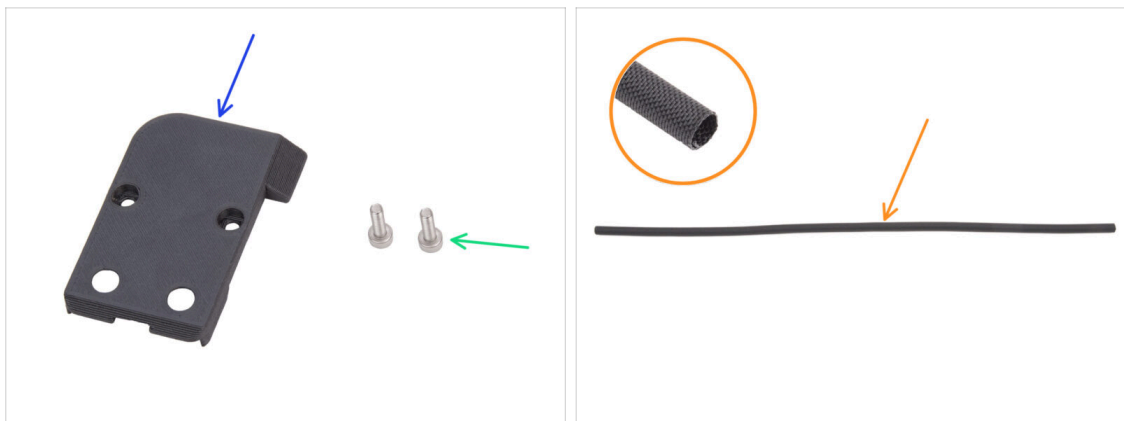
- ✦ Place the spacer onto the heatbed carriage on the side with the expansion joints and align it with the hole in the center.
- ✦ Put the heatbed on the heatbed carriage and secure it by the M3x12bT. **Do not fully tighten the screw yet.**
 - ✦ Make sure the heatbed thermistor cable (the thinnest pair) is routed alongside the heatbed power cables. Do not route it around or across any expansion joints.
- ⚠ **Zajistěte správnou orientaci dílu.** Jako vodičko použijte kabely vyhřívané podložky.
- ✦ 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
 - ✦ První čtyři šrouby (na stranách)
 - ✦ Last four screws (corners)
- ⚠ Tighten the screws gently, but firmly.

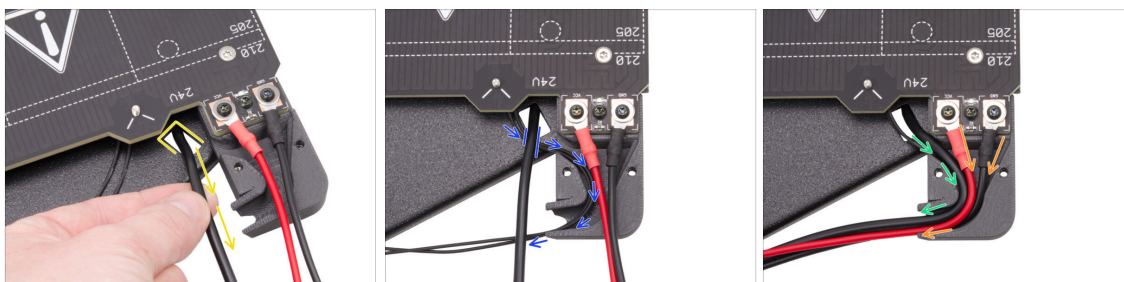
KROK 27 Covering the cables: parts preparation



● For the following steps, please prepare:

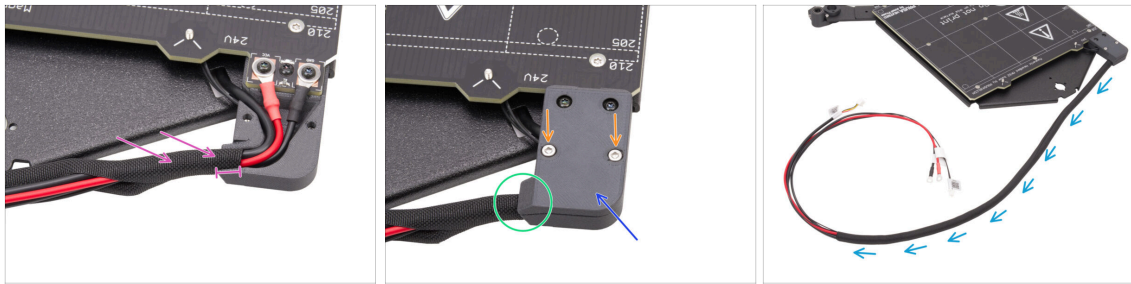
- CORE-One-bed-cable-cover-top (1x) found in the Printed parts package
- M3x10 screw (2x)
- Textile sleeve 520 x 8 mm (1x) found in the Electronics & Chamber parts package

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.
- Proveďte napájecí kabely vyhřívané podložky kabelovým kanálem.

KROK 29 Covering the heatbed cables



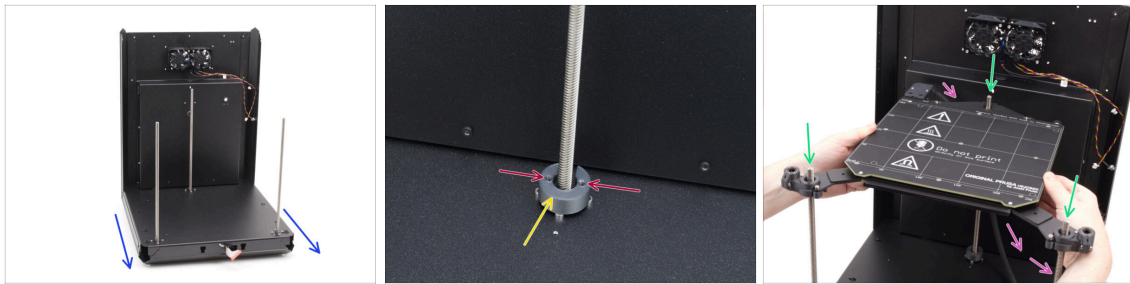
- ◆ Thread approximately 5 cm (2 in) of the textile sleeve onto the heatbed cable bundle and slide the textile sleeve 1 cm (0.39 in) into the cable channel.
- ◆ Attach the CORE-One-bed-cable-cover-top on the heatbed cables.
- ◆ Make sure the textile sleeve is still in place - inside the cable cover.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

KROK 30 Mounting the heatbed: parts preparation



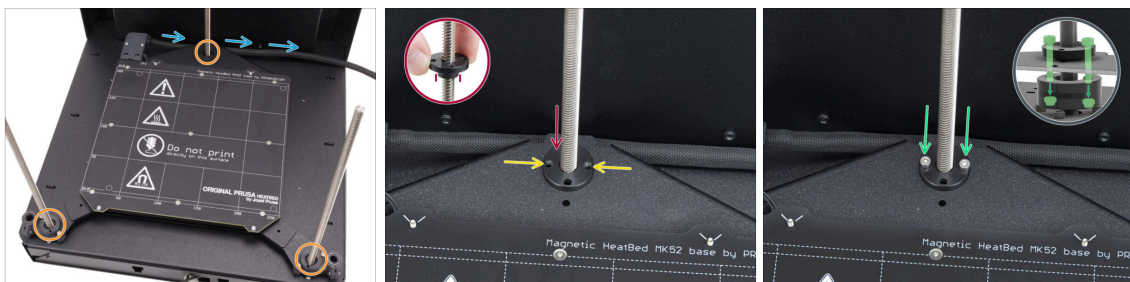
- ◆ **For the following steps, please prepare:**
- ◆ Trapezoidal nut (3x)
 - ① *Two of these trapezoidal nuts are from the disassembled printer. The last one is in the Electronics and Chamber parts package.*
- ◆ M3x18 screw (6x)

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.
- Velmi opatrně nasadte sestavu vyhřívané podložky na závitové tyče motorů Z a poté ji opatrně položte na základnu.
 - ⚠ 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.
 - ⚠ Zajistěte správnou orientaci dílu. **Vyčnívající část musí směřovat dolů.**
- Align the holes in the trapezoidal nut, carriage and bed-spacer-rear.
 - ① It doesn't matter which holes you use in the trapezoidal nut.
 - ① 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.
- Všechny díly zajistěte pomocí dvou M3x18 šroubků.

KROK 34 Mounting the heatbed assembly: front motor right



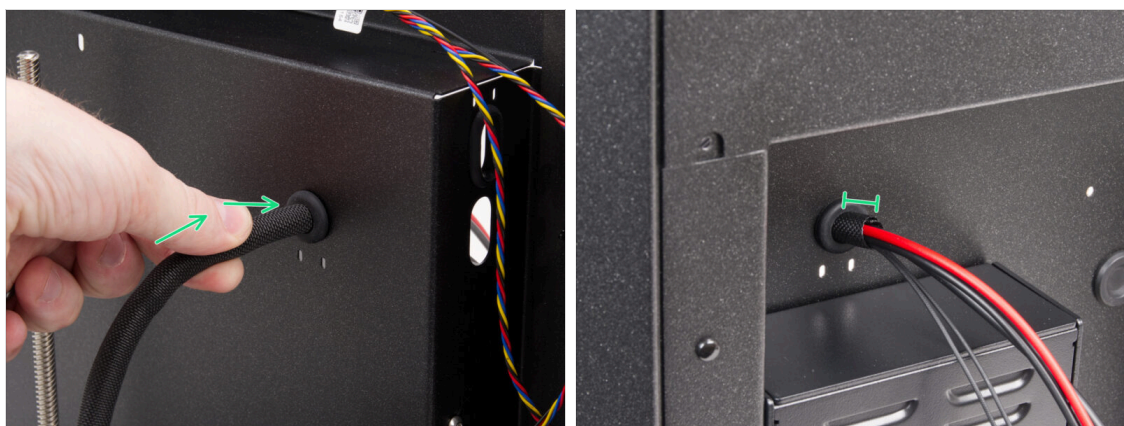
- Manually thread the trapezoidal nut onto the **right** Z motor. Screw the nut all the way down until it seats into the plastic part.
- ⚠ Ensure the correct orientation of the part. **The protruding section must face downwards.**
- Align the holes in the trapezoidal nut with those in the plastic part.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

KROK 35 Attaching the heatbed cables I.



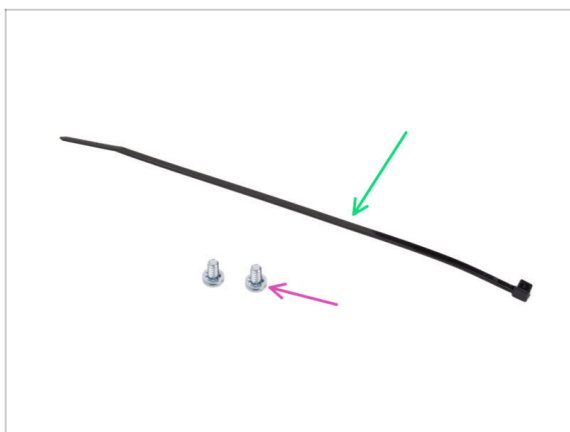
- Locate the grommet hole at the top right of the rear assembly and push the heatbed cables through in the following order:
 - Guide the RGB LED strip cable through the hole first.
 - Route the thermistor cable through.
 - Nakonec protáhněte oba kabely skrz otvor.

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

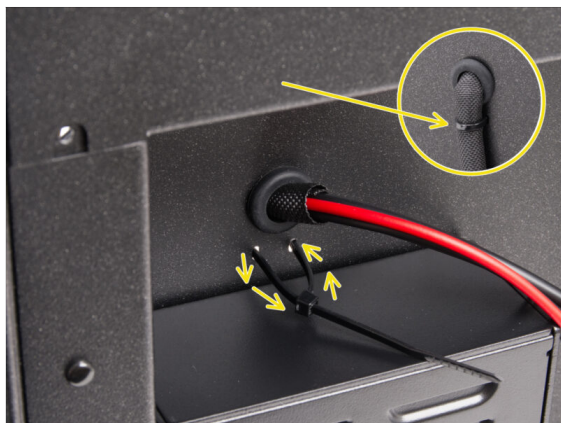


● For the following steps, please prepare:

● Zip tie (1x)

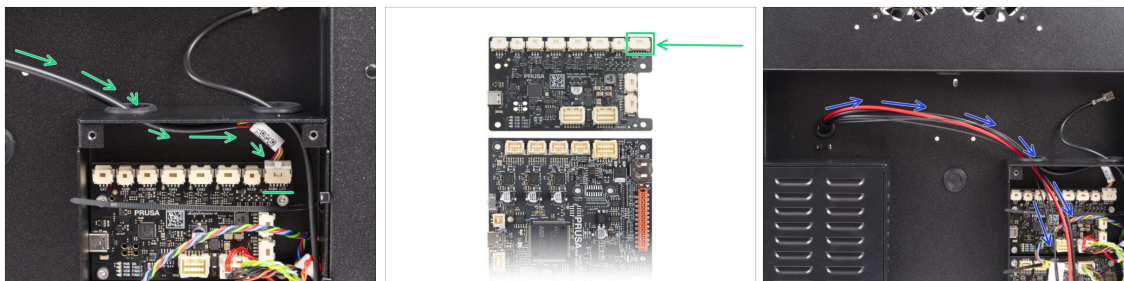
● 6/32" terminal screw (2x)

KROK 38 Securing the textile sleeve



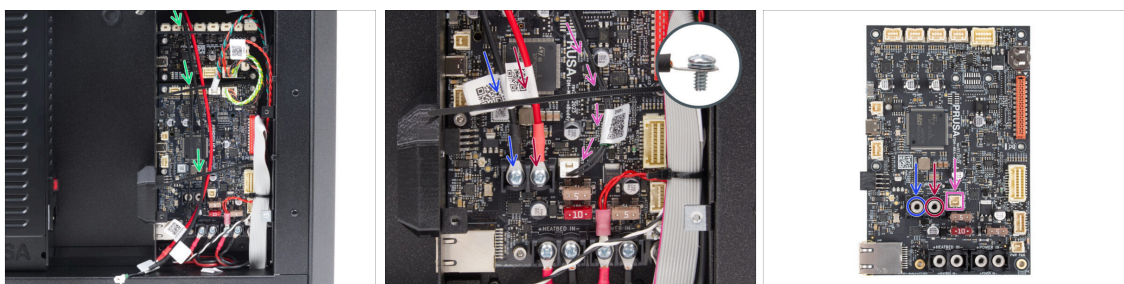
- Guide the zip tie through the two holes under the heatbed cables and make a loop around the heatbed cable bundle (textile sleeve) on the inside.
- Tighten the zip tie firmly and cut off the excess.

KROK 39 Guiding the heatbed assembly cables



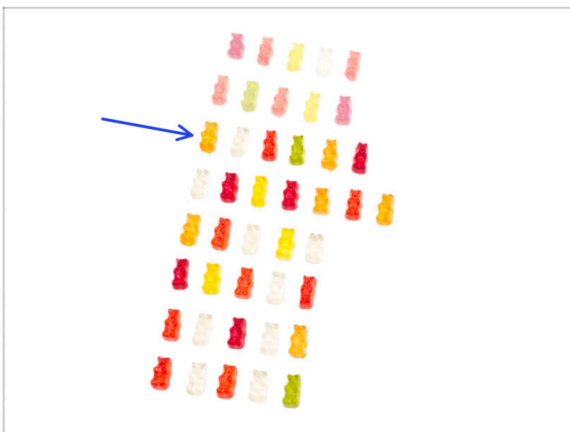
- Route the RGB LED strip cable through the left hole in the xBuddy box and connect it to the first slot on the xBuddy board labeled 'RGBW LED.'
- Connect it to the first slot from the right on the xBuddy extension board.
- Guide the heatbed power cables along with the thermistor through the left hole.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

KROK 40 Connecting the heatbed power cables



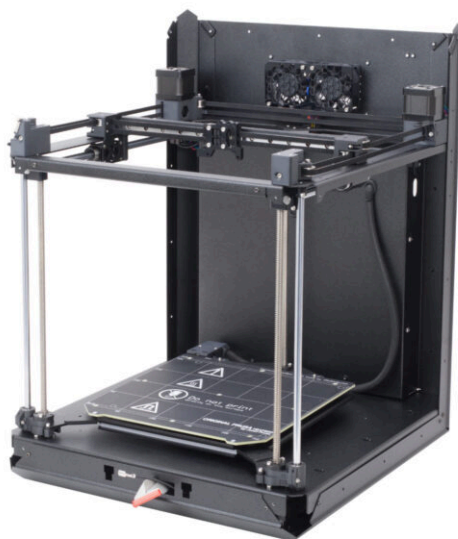
- Ensure that none of the heatbed cables run over the zip ties—they must be guided underneath.
- Using the 6-32 terminal screw, connect the **black** power cable to the **left** terminal on the xBuddy board. Tighten firmly.
- Using the 6-32 terminal screw, connect the **red** power cable to the **right** terminal. Tighten firmly.
- Zapojte konektor termistoru vyhřívané podložky do konektoru vedle napájecích svorek.

KROK 41 Haribo time



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

5. Sestava CoreXY



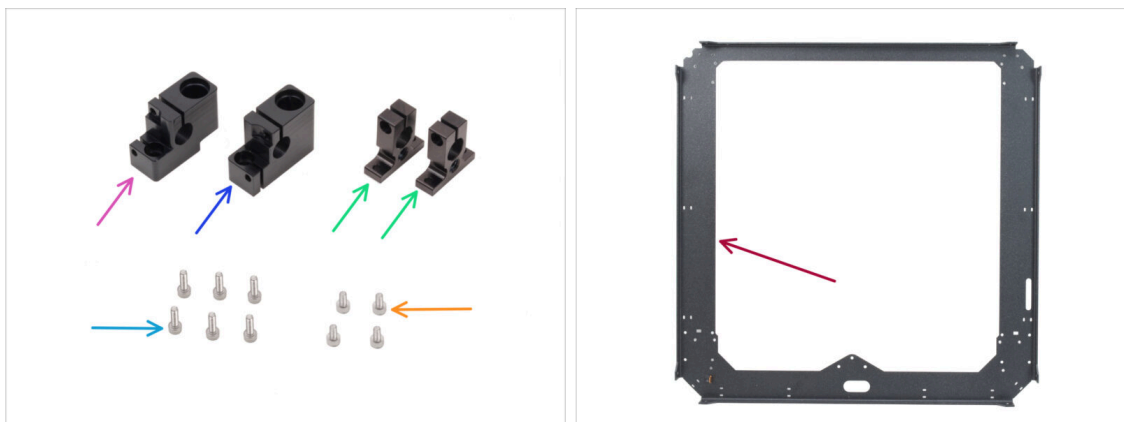
KROK 1 Tools necessary for this chapter



● For this chapter, please prepare:

- Čelistové kleště
- 2,0mm inbusový klíč
- 2,5mm inbusový klíč
- T10 torx key / T10 torxy screwdriver

KROK 2 Rod holders: parts preparation



● For the following steps, please prepare:

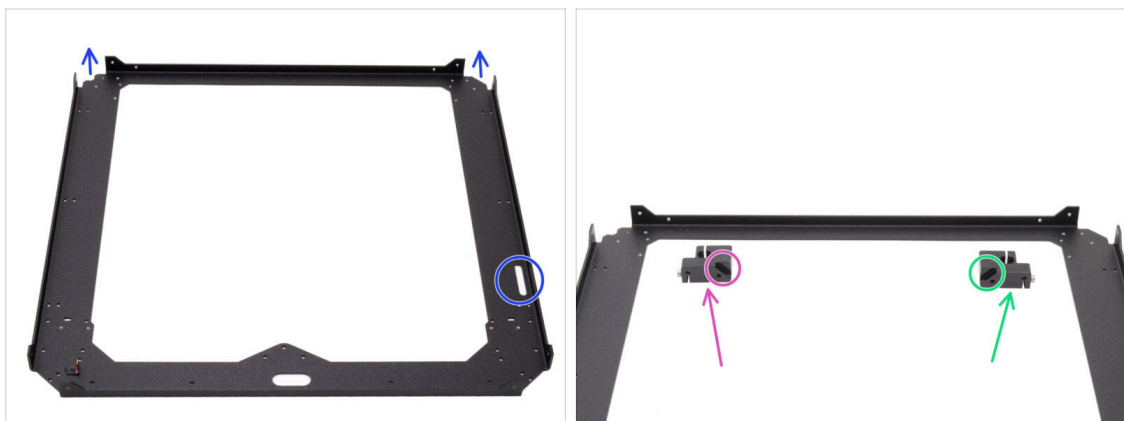
- Rod holder left (1x) *found in the CORE XY parts + hinges + HB set package*
- Pravý držák tyče (1x) *naleznete v balíčku CORE XY parts + hinges + HB set*
- Rod holder rear (2x) *found in the CORE XY parts + hinges + HB set package*
- Šroub M3x10 (6x)
- M3x6 screw (4x)
- CoreXY plate (1x) *found in the Metal parts 1/3 package*

KROK 3 Assembling the rod holders



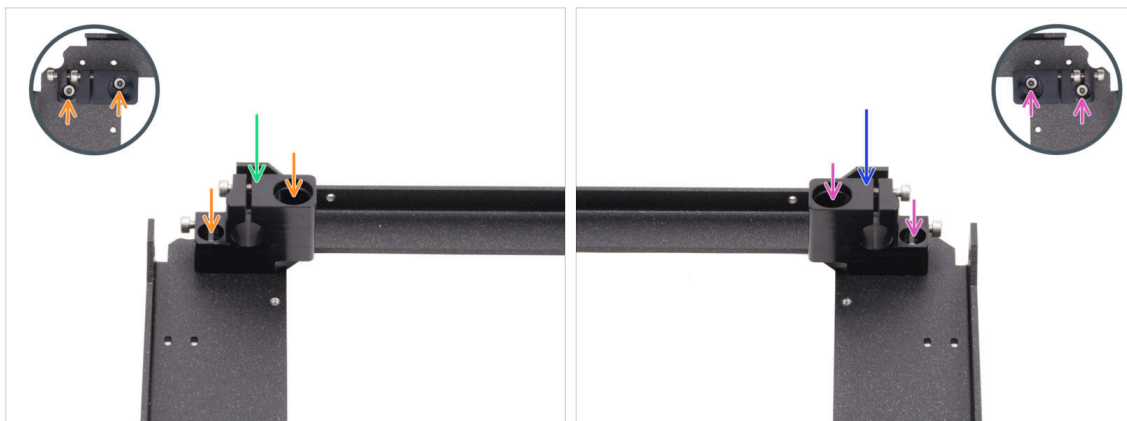
- Insert two M3x10 screws into the Rod holder left and two into the Rod holder right.
- **Do not tighten them completely**, a few turns are enough for now.
- Do každé zadní části držáku tyčí vložte jeden šroub M3x10. Vložte ho ze strany s otvorem pro hlavu šroubu.
- **Do not tighten them completely**, 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:
 - ⚠ **Dejte si pozor, ať máte připravený správný díl na správné straně. Jako referenční bod pro zarovnání použijte zkosení na obou dílech.**
 - Držák tyče (levý)
 - Držák tyče (pravý)

KROK 5 Installing the front rod holders



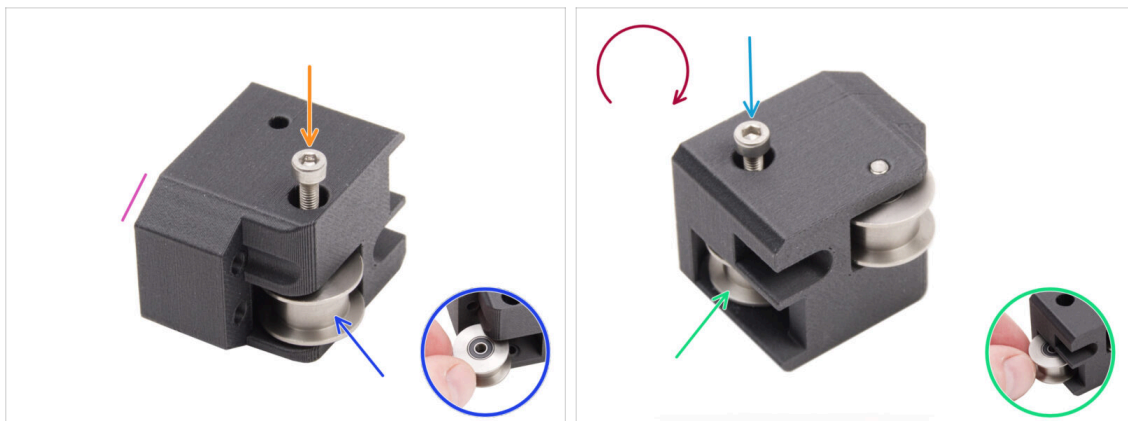
- Place the Rod holder left to the left front corner on the corresponding threaded holes.
- Secure it with two M3x6 screws.
- Pravý držák tyče umístěte do pravého předního rohu, na odpovídající otvory se závity.
- Secure it with two M3x6 screws.

KROK 6 XY carriage: parts preparation



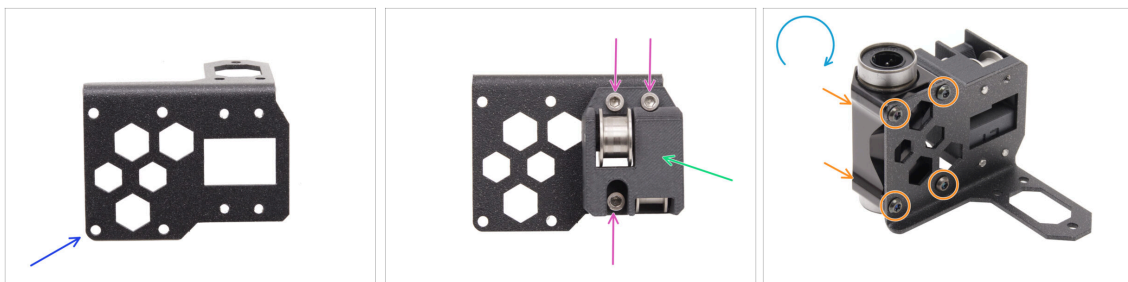
- For the following steps, please prepare:
- Linear holder left (1x) found in the Metal parts 1/3 package
- Pravý držák lineárního vedení (1x) naleznete v balení Metal parts 1/3
- XY-carriage (2x) found in the Printed parts package
- LM10LUU linear bearing (2x) found in the CORE XY parts + hinges + HB set package
- GT2-20 Idler pulley (4x) found in the Electronics & Fasteners package
- M3x8rT black screw (8x)
- Šroub M3x18 (10x)

KROK 7 Montáž dílu XY-carriage



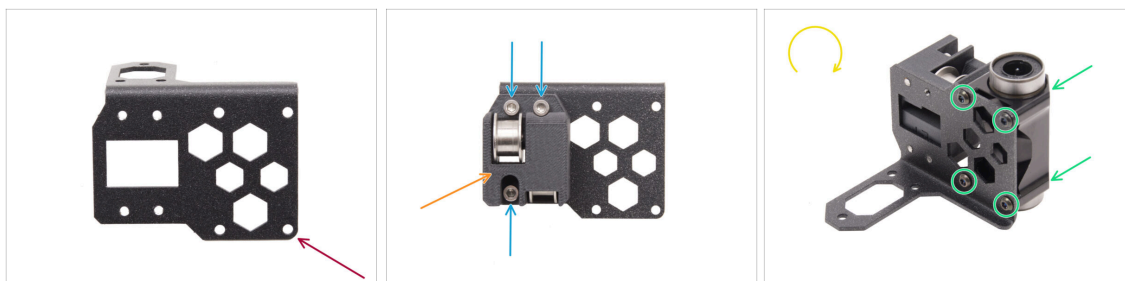
- ◆ Take one of the XY-carriage and orient it as shown. Use the beveled side as a guide.
- ◆ Insert the GT2-20 Idler pulley into the XY-carriage.
- ◆ Prostrčte jeden šroub M3x18 řemenicí a zcela jej utáhněte.
- ◆ Turn the part upside down.
- ◆ Insert another GT2-20 Idler pulley into the XY-carriage.
- ◆ 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



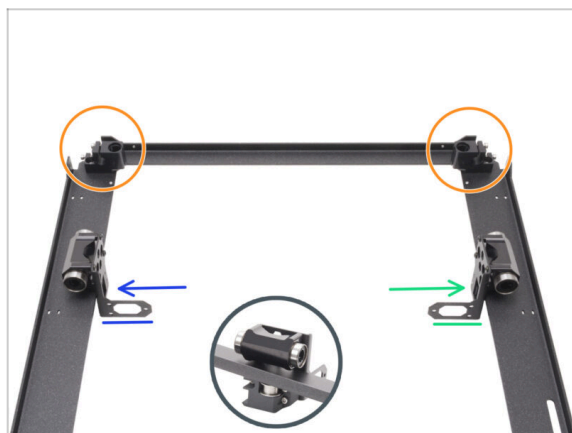
- ◆ Prepare the Linear holder **left** and position it as in the picture.
- ◆ Attach one of the XY-carriages to the Linear holder.
- ◆ Carriage k držáku připevněte třemi šrouby M3x18.
- ◆ Turn the Linear holder upside down.
- ◆ From the XY-carriage side, attach the LM10LUU linear bearing to the holder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

KROK 9 Assembling the linear holder right



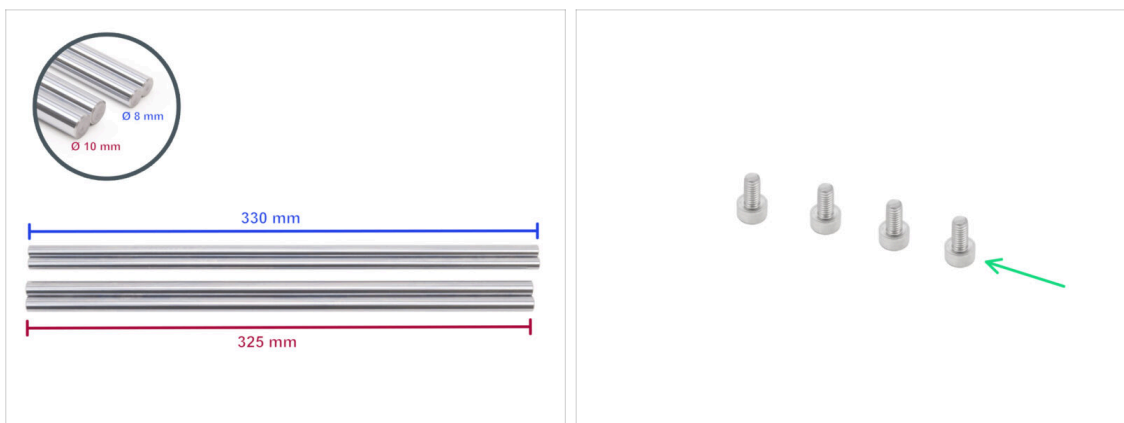
- Prepare the Linear holder **right** and position it as in the picture.
- Attach one of the XY-carriages to the Linear holder.
- Carriage k držáku připevněte třemi šrouby M3x18.
- Turn the Linear holder upside down.
- From the XY-carriage side, attach the LM10LUU linear bearing to the holder and secure 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.
- **Držák lineárního vedení (levý)**
- **Držák lineárního vedení (pravý)**
- ① The linear holders are now only loosely seated.

KROK 11 Hlazené tyče INFO



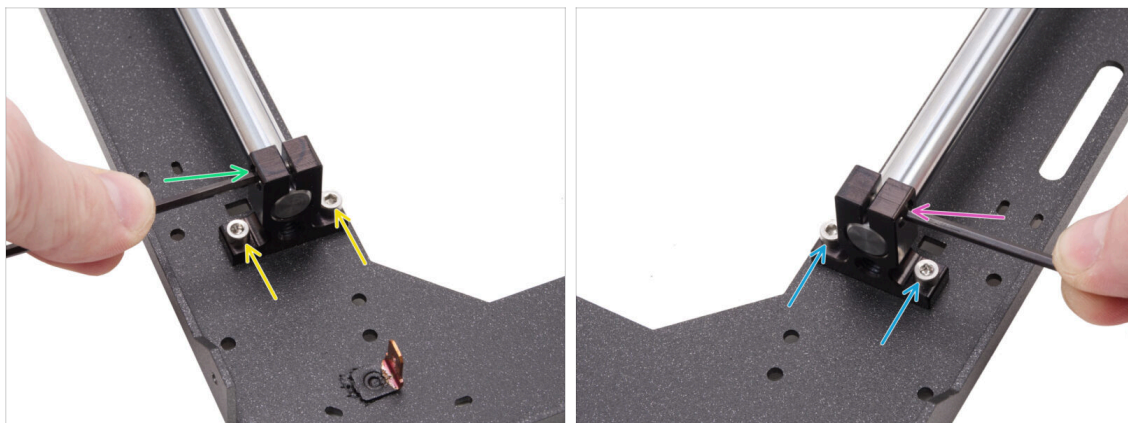
- The printer requires different smooth rod sizes. Ensure you have the correct ones:
 - Smooth rod 330 x 8 mm (2x)
 - Hladká tyč 325 x 10 mm (2x)
původně z osy Z,
budou potřeba pro další kroky.
- Připravte si také:
 - Šroub M3x6 (4x)

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.
- Obě 10mm hladké tyče prostrčte ložiskem LM10LUU k předním držákům tyčí.
 - 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



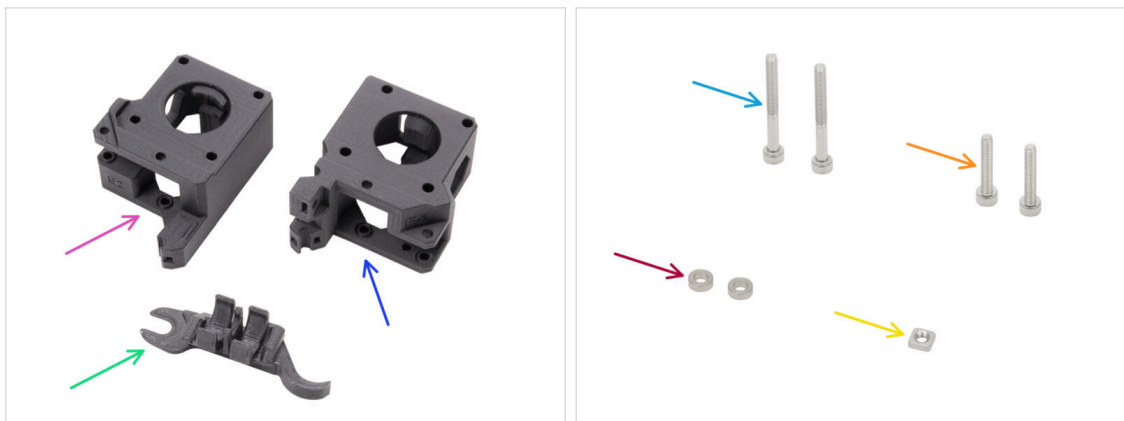
- Line up the left rear rod holder with the threaded holes in the plate.
- Fix it with two M3x6 screws.
- Pevně utáhněte šroub v horní části držáku tyče.
- Line up the right rear rod holder with the threaded holes in the plate.
- Fix it with two M3x6 screws.
- Firmly tighten the screw in the rod holder.

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.**
- Zaměřte se na pravý přední držák (nyní vlevo) a zajistěte tyč utažením šroubu v držáku.
- ⚠ **Do not tighten the bottom screw.**

KROK 15 Motor mounts: parts preparation

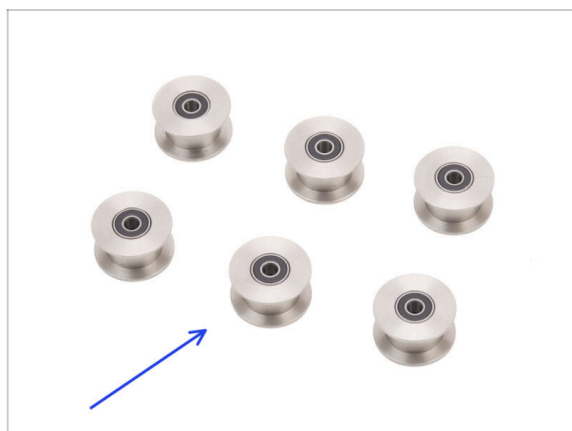


● **For the following steps, please prepare:**

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

❗ The list continues in the next step...

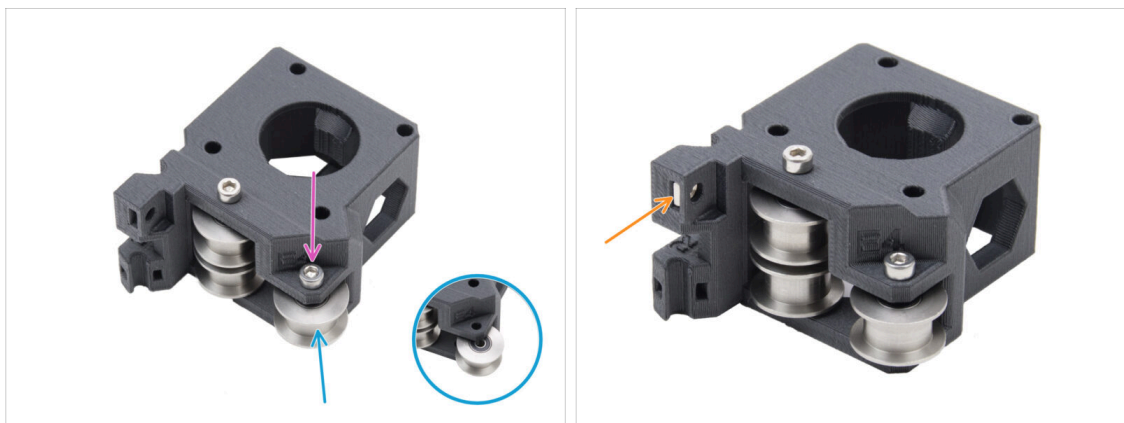
KROK 16 Motor mounts: part preparation



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

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

- ✿ Vložte jednu řemeničku do spodní pozice dílu Assembly-multi-tool.
- ✿ Insert the spacer 3.2 on the pulley.
- ✿ Vložte druhou řemeničku do dílu 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.
 - 🔩 Plastová část nemá předvyřezaný závit, takže jej šroub vytvoří při utahování. Očekávejte proto mírný odpor.
- ✿ Odejměte 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.
 - ⓘ Plastová část nemá předvyřezaný závit, takže jej šroub vytvoří při utahování. Očekávejte proto mírný odpor.
- ✿ Insert the M3nS nut into the XY-motor-mount-right.

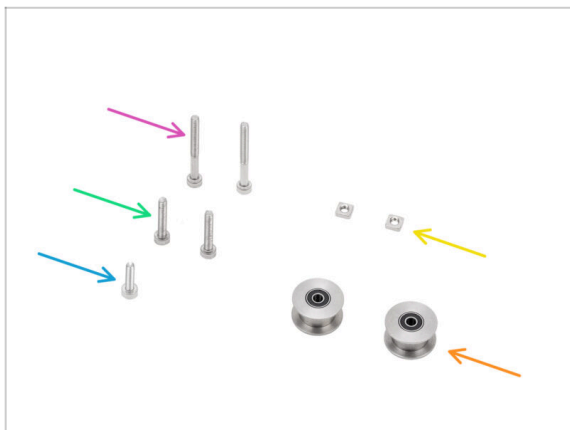
KROK 19 Assembling the XY-motor-mount-left I.

- ✿ Vložte jednu řemeničku do spodní pozice dílu Assembly-multi-tool.
- ✿ Insert the spacer 3.2 on the pulley.
- ✿ Vložte druhou řemeničku do dílu 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.
- ✿ Odejměte 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.**
 - ⓘ Plastová část nemá předvyřezaný závit, takže jej šroub vytvoří při utahování. Očekávejte proto mírný odpor.

KROK 21 Belt tensioners: parts preparation I.



For the following steps, please prepare:

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

Šroub M3x30 (2x)

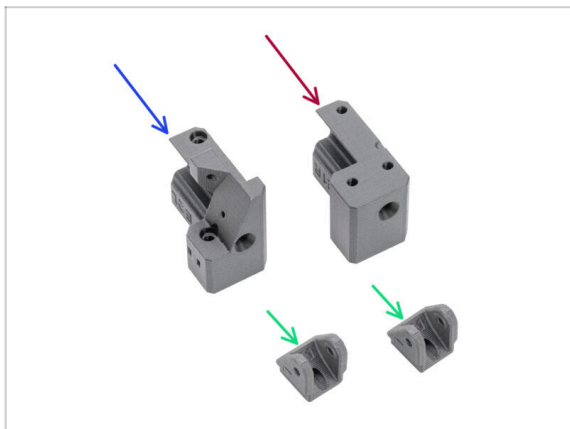
Šroub M3x18 (2x)

Šroub M3x12 (1x)

Matka M3nS (2x)

i The list continues in the next step...

KROK 22 Belt tensioners: parts preparation II.



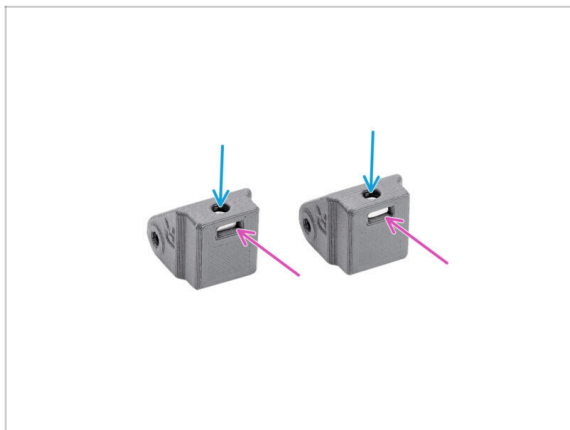
For the following steps, please prepare:

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 Příprava dílů tensioner pulley



- ✦ Insert one M3nS nut into each Belt-tensioner-pulley.
- ✦ Ujistěte se, že jsou matky správně zasunuty do dílů. Otvory v matkách a dílech **musí být zarovnány**.
- ✦ Ponechte oba díly v této poloze.

KROK 24 Assembling the belt tensioner left I.



- ✦ Naneste malé množství maziva Prusa Lubricant na špičku obou šroubů M3x30.
- ✦ Naneste mazivo rovnoměrně po celém závitě.
- ⓘ Tip: K nanesení maziva použijte špičku stahovací pásky.
- ✦ 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.



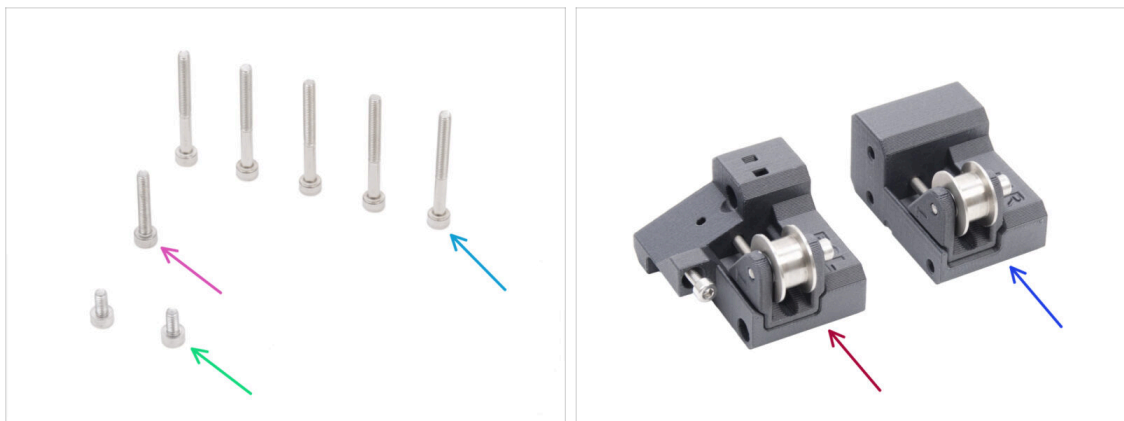
- ◆ Insert the GT2-20 Idler pulley into the Belt-tensioner-pulley.
- ◆ Secure it with the M3x18 screw.
 - i The plastic part has no pre-cut thread, so the screw will create it as you tighten. Slight resistance is expected.
- ◆ Insert the M3x12 screw into the Belt-tensioner-left. Tighten slightly—five turns are enough. It must not protrude through the other side.
 - i 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.
 - i Plastová část nemá předvyřezaný závit, takže jej šroub vytvoří při utahování. Očekávejte proto mírný odpor.

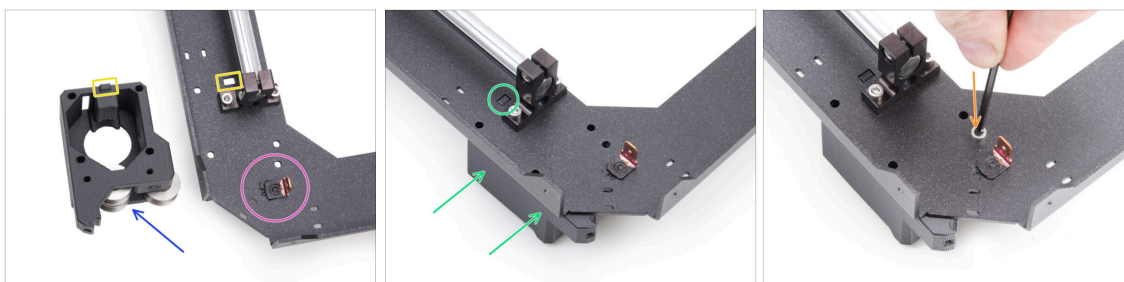
KROK 27 Installing the belt tensioners: parts preparation



● For the following steps, please prepare:

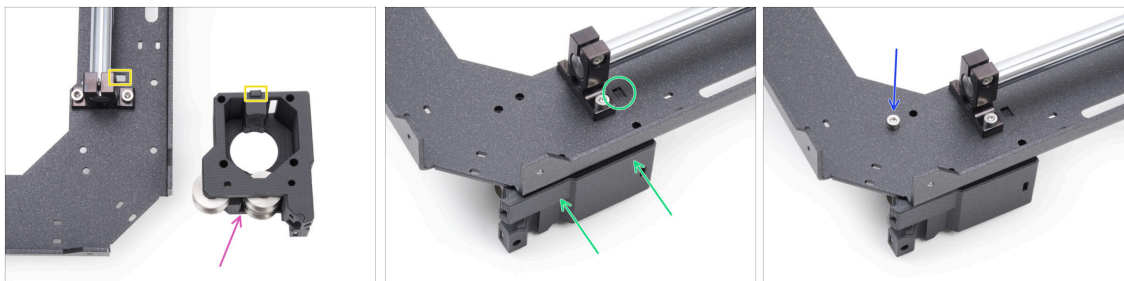
- Šroub M3x30 (5x)
- Šroub M3x18 (1x)
- Šroub M3x6 (2x)
- Belt tensioner left assembly (1x) *you assembled earlier*
- Belt tensioner right assembly (1x) *you assembled earlier*

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



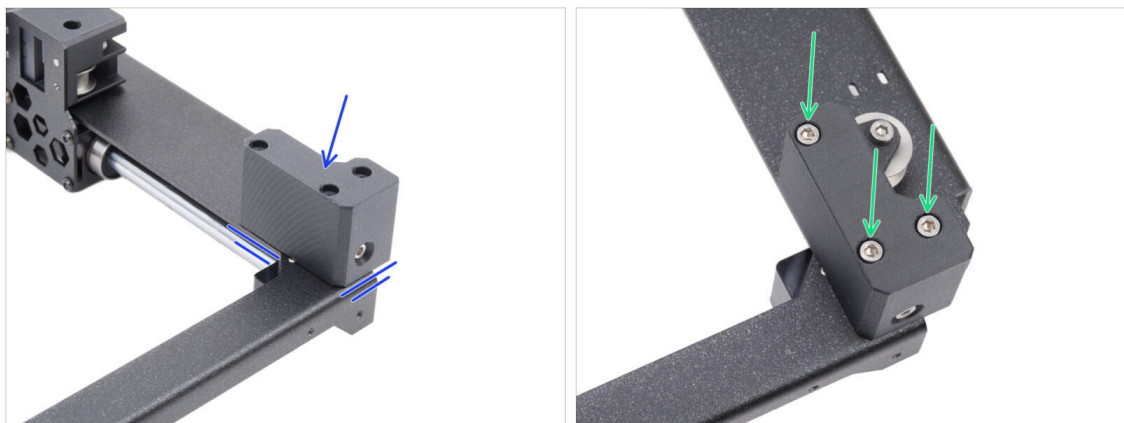
- ◆ Position the motor-mount-**right** on the CoreXY plate as shown in the picture.
- ◆ Note the rectangular protrusion on the motor-mount-right and the rectangular cutout on the CoreXY plate.
- ◆ Slide the motor-mount-right under the CoreXY plate, ensuring the rectangular protrusion fits into the cutout.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

KROK 30 Osazení levého napínáku řemenu



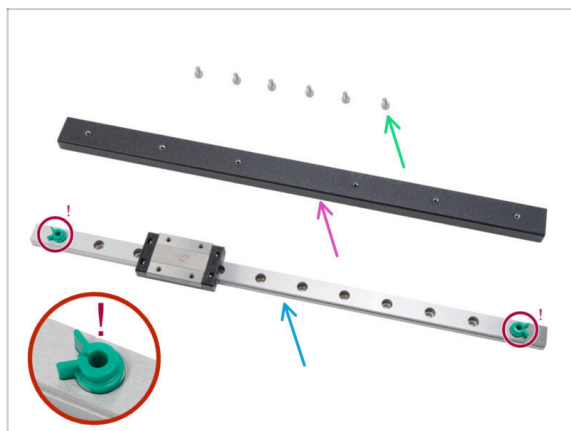
- ◆ Turn the CoreXY assembly upside down so that the bent parts face downward. Focus on the front left corner on the assembly.
- ◆ Place the belt-tensioner-**left** assembly in the front left corner of the CoreXY plate. Align it with the front and inner side edges.
 - ◆ Line up the holes in both parts.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

KROK 31 Osazení pravého napínáku řemenu



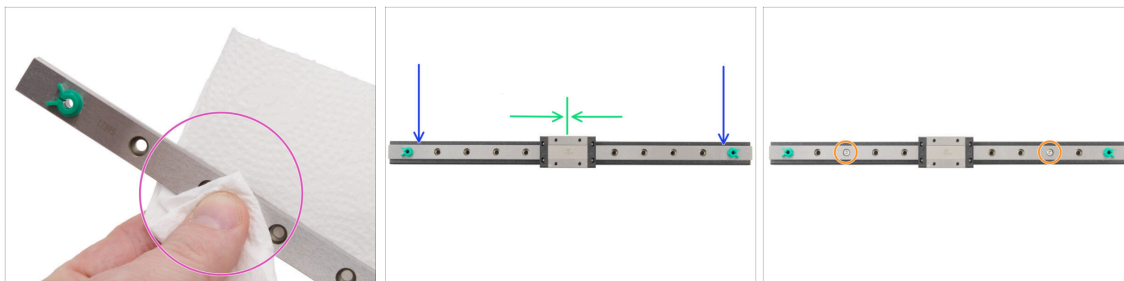
- Place the belt-tensioner-**right** assembly in the front right corner. Align it with the front and inner side edges.
- Line up the holes in both parts.
- Secure the part with three M3x30 screws.

KROK 32 Linear rail: parts preparation



- For the following steps, please prepare:
 - Šroub M3x6 (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.

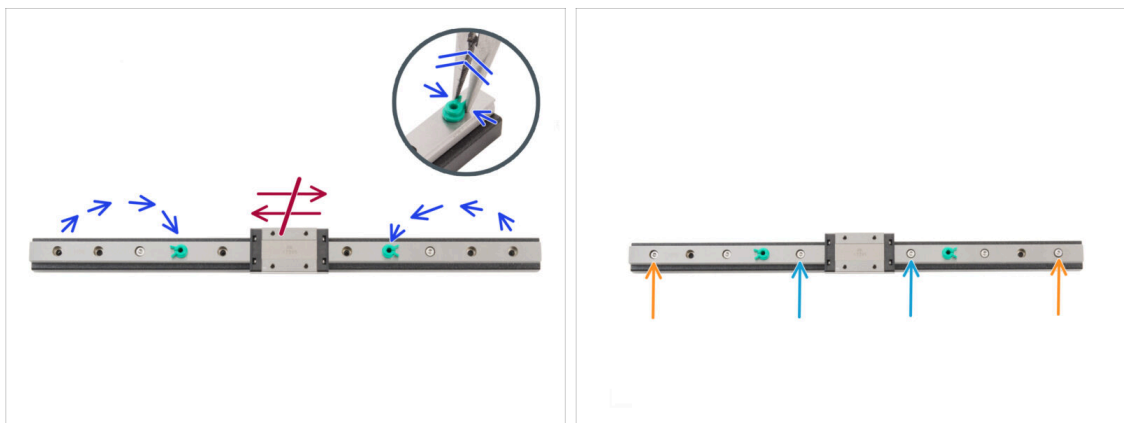
KROK 33 Attaching the linear rail



⚠ 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

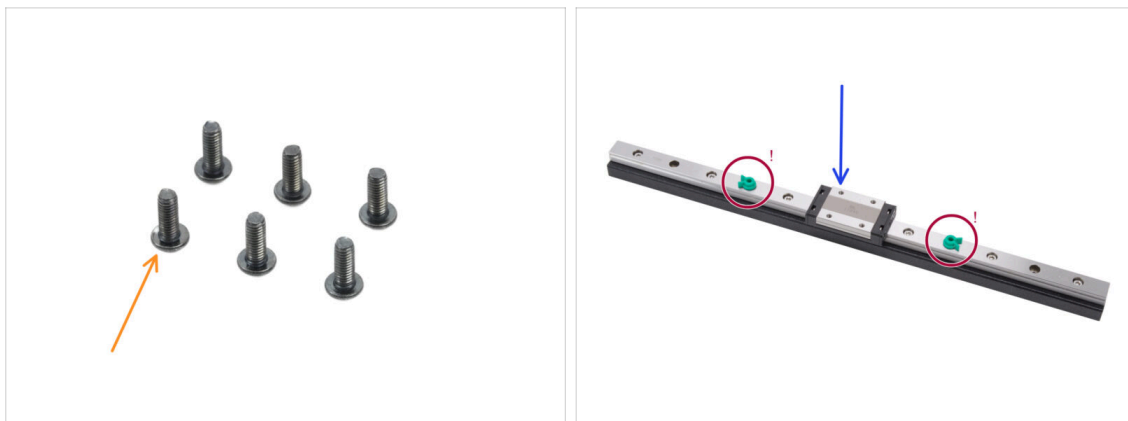


⚠ Do not move the linear carriage in any way in this step.

- ⬢ 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 Installing the linear rail: parts preparation



For the following steps, please prepare:

Šroub M3x8rT (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 Installing the linear rail assembly



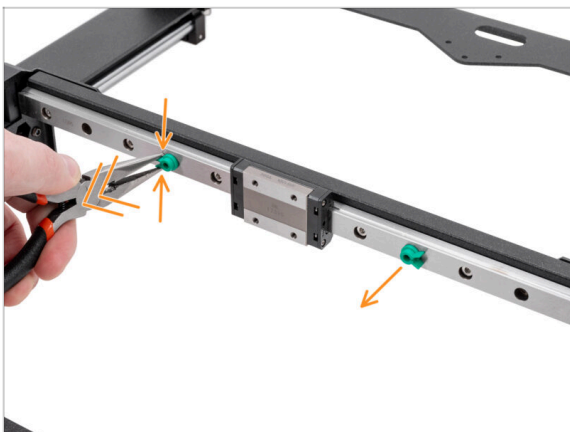
Position the assembly with the motor mounts facing you.

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.

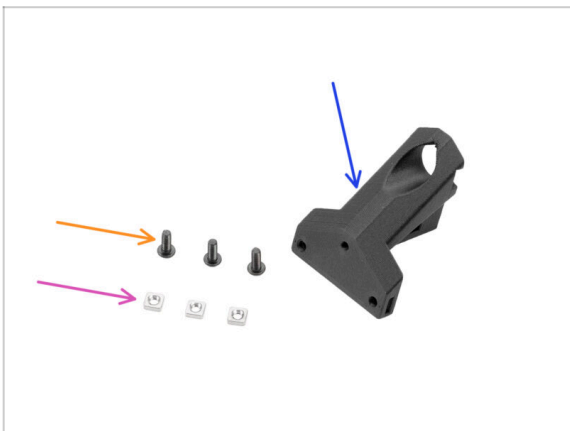
Secure it with three M3x8rT screws from the back side on both the left and right sides.

KROK 37 Linear rail: removing the safety pins



- 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 (zarážka podložky): příprava dílů



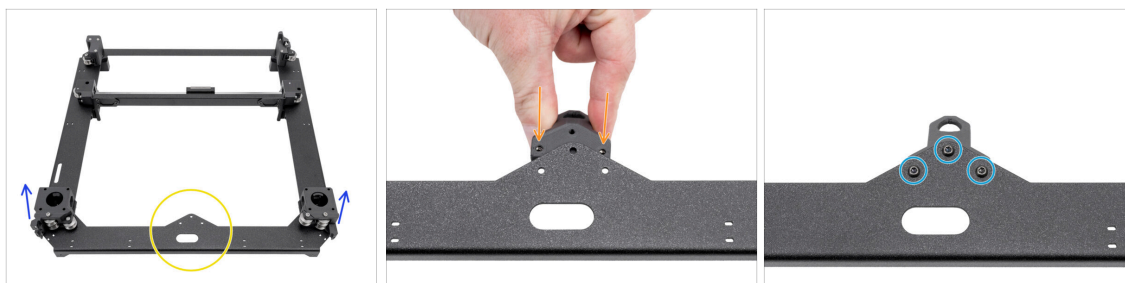
- **For the following steps, please prepare:**
- Bed-stop-rear (1x) *found in the Printed parts package*
- Matka M3nS (3x)
- Šroub M3x8rT (3x)

KROK 39 Sestavení zarážky podložky (bed-stop)



- Insert two M3nS nuts into the bed-stop from one side.
- Insert one M3nS nut into the bed-stop from the other side.

KROK 40 Osazení zarážky podložky (bed-stop)



- Position the CoreXY assembly as shown, ensuring the motor mounts face upwards.
- Focus on the triangle protrusion on the metal part.
- 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 M3x8T screws.
- i** 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 X&Y motors: parts preparation



- For the following steps, please prepare:
- Motor osy Y (1x)
- Motor osy X (1x)
- i** Note that the motors are marked as X and Y-axes in order to distinguish between them. We will continue to follow this marking.
- Řemenička T16-2GT (2x)
- Assembly-multi-tool (1x) *you already used*

KROK 42 Installing the X-axis pulley



- Prepare the **X-axis** motor.
- Note the flat part on the motor shaft.
- ⚠ 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 Installing the Y-axis pulley

- Prepare the **Y-axis** motor.
- Note the flat part on the motor shaft. Rotate the motor shaft with the flat part facing you.
- ⚠ **Nasadte řemeničku - dejte si pozor na SPRÁVNOU orientaci. Orientace řemeničky osy Y se LIŠÍ od osy X. Ujistěte se, že zuby řemeničky směřují od motoru. Použijte širší hák na montážním nástroji.**
- Using the hook on the Assembly-multi-tool, place the thicker curved part between the pulley and the motor.
- ⚠ **Nepokoušejte se jej zachytit kolem hřídele.. Nástroj pouze opřete o motor a ujistěte se, že hrot háku klouže mezi motorem a řemeničkou.**
- 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 XY belts: parts preparation



◆ For the following steps, please prepare:

- ◆ X-axis motor assembly (1x) you assembled earlier
- ◆ Y-axis motor assembly (1x) you assembled earlier
- ◆ XY belt (2x) found in the CORE XY parts + hinges + HB set package
- ◆ Nexttruder holder (1x) found in the CORE XY parts + hinges + HB set package
- ◆ Šroub M3x35 (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.

- ◆ X-axis belt - at the **top position**
- ◆ Y-axis belt - at the **bottom position**

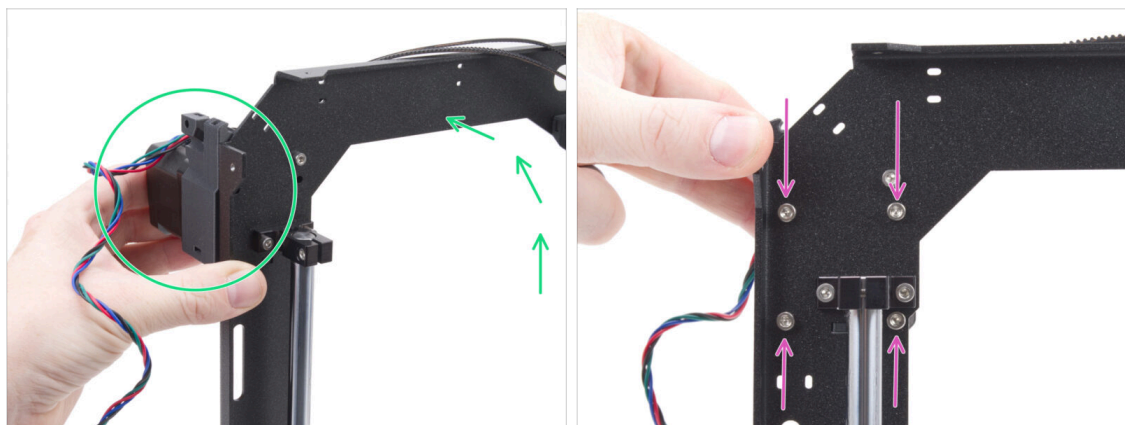
◆ Let's guide the belts step by step...

KROK 46 Y belt guiding: Y motor pulley



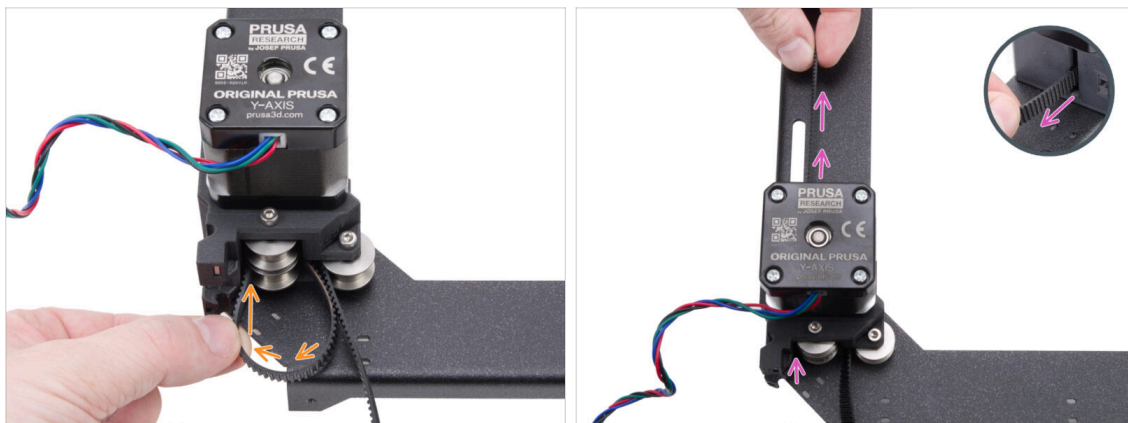
- From the back of the CoreXY, focus on the motor-mount on the **left** side.
- Create a loop anywhere on the belt so the **belt teeth are pointing inside** the loop.
- Push this loop through the space between the lower pulleys inside the motor mount.
- Push through enough to make the loop follow the 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 Securing the Y-axis motor



- Firmly grasp the Y-axis motor assembly and position the CoreXY assembly vertically. **Do not drop the motor!**
- ⚠ Be careful not to pull the entire belt out of the motor.
- 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 Y belt guiding: Y motor mount



- 🟡 Guide the left end of the belt around the lower left pulley.
- 🟣 Push the belt through the part and guide it to the front of the CoreXY plate.
- ⚠️ **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 Y belt guiding: belt tensioner



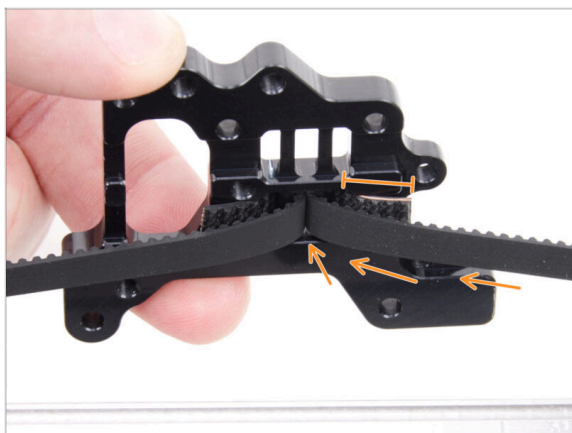
- 🟡 Řemen vedte kolem řemeničky v napínáku řemene.
- 🟣 Push the belt around the front pulley in the linear assembly.
- 🟢 Prepare the Nextruder holder in the same orientation as in the picture. Note the holes for securing the belts.
- 🟡 Push the end of the belt through the middle hole into the left hole 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 Y belt guiding: X motor mount



- Back to the other end of the Y belt.
- Take the other end of the belt and guide it around the lower pulley in the X motor mount.
- Push it through the motor mount to the front.
- Route the belt around the lower right pulley in the linear rail holder.

KROK 51 Y belt guiding: securing the belt



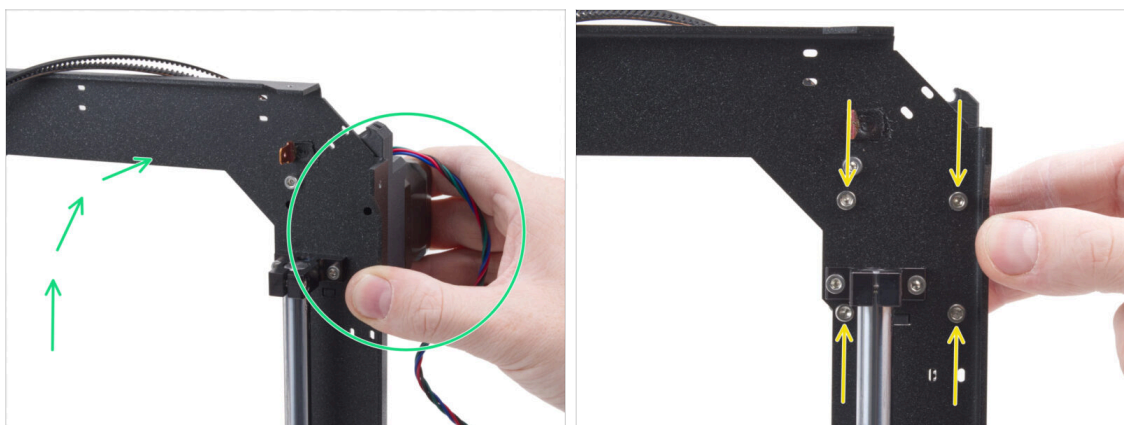
- Push the end of the belt through the middle hole to the right hole in the bottom row of the Nextruder holder - leave 4-5 teeth sticking out.
- ⓘ If it's difficult to reach the Nextruder holder with the belt, you can loosen the belt tensioner screw on the front of the assembly.
- 📌 Don't forget to adjust it back after securing the belt.

KROK 52 X belt guiding: X motor pulley



- From the back of the CoreXY, focus on the motor-mount on the **right** side.
- Create a loop anywhere on the second belt so the belt teeth are pointing inside the loop.
- 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 Securing the X-axis motor



- Firmly grasp the X-axis motor assembly and position the CoreXY assembly vertically. **Do not drop the motor!**
- ⚠ Be careful not to pull the entire belt out of the motor.
- 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 Y belt guiding: X motor mount



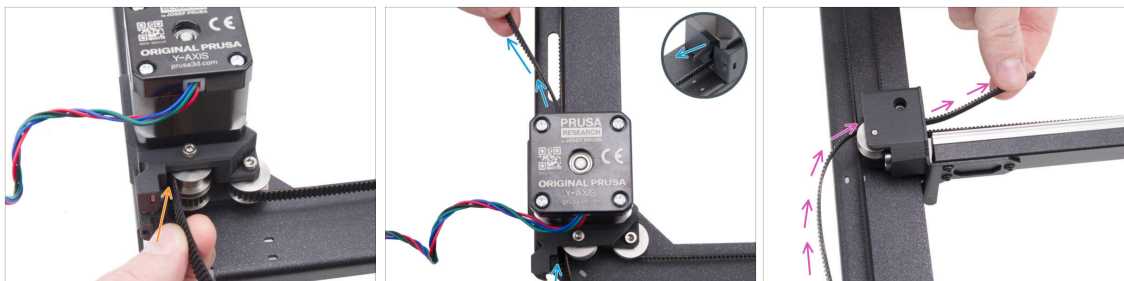
- Guide the right end of the belt around the upper right pulley.
- Push the belt through the part and guide it to the front of the CoreXY plate.
- ⚠ **Don't pull too long so you don't pull the whole belt out.** Remember that the other end is loose. The whole process would then have to be repeated.

KROK 55 X belt guiding: belt tensioner



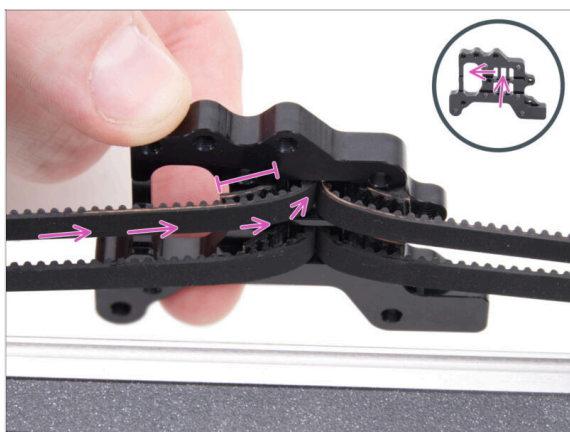
- Řemen vedte kolem řemenice v napínáku řemene.
- Push the belt around the front upper pulley in the linear assembly.
- Route the end of the belt through the middle hole into the right hole - leave 4-5 teeth sticking out.
- ⓘ The belt is secured on this end. You can leave it free for now.

KROK 56 X belt guiding: Y motor mount



- Take the other end of the belt and guide it around the upper pulley in the Y motor mount.
- Push the belt through the motor mount.
- Route the belt around the upper front pulley in the linear rail holder.

KROK 57 X belt guiding: securing the belt



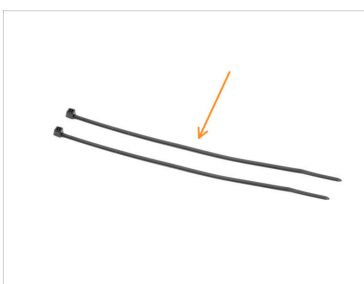
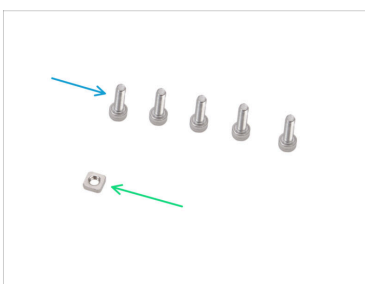
- Push the end of the belt through the middle hole to the left hole in the upper row of the Nexttruder holder - leave 4-5 teeth sticking out.

KROK 58 Checking the belt guidance



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

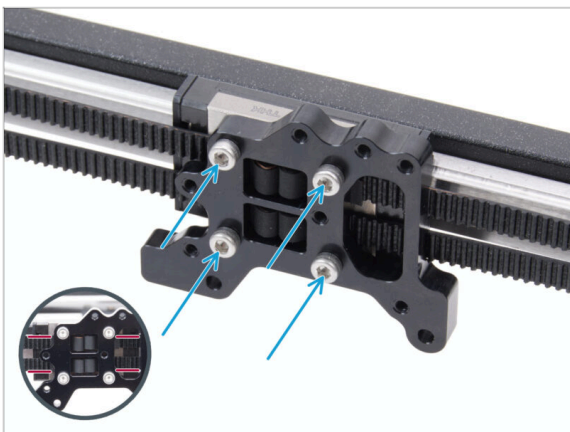
KROK 59 Bowden guide: parts preparation



● For the following steps, please prepare:

- Bowden-guide (1x) *found in the Printed parts package*
- M3x10 screw (5x)
- Matka M3nS (1x)
- Stahovací páska (2x)

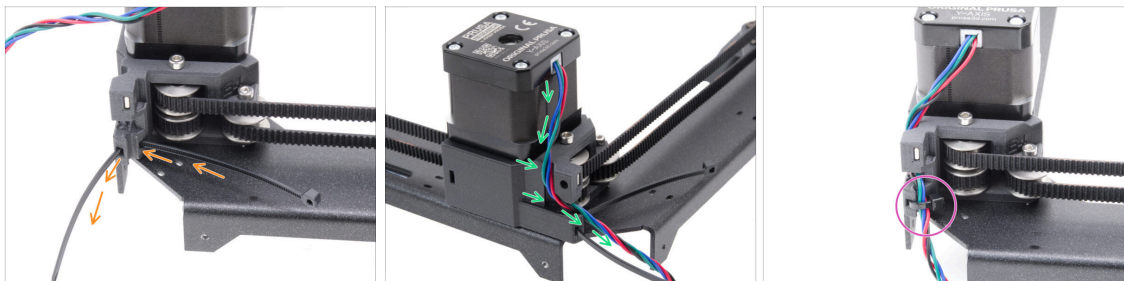
KROK 60 Securing the Nextruder holder



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

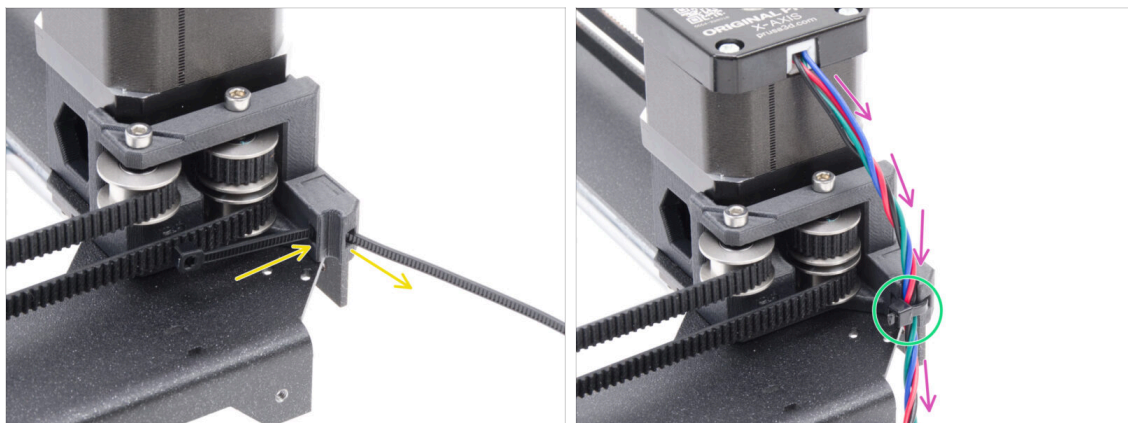
CAUTION: Ensure no belt obstructs the screw. Avoid screwing through the belt!

KROK 61 Securing the Y motor cable



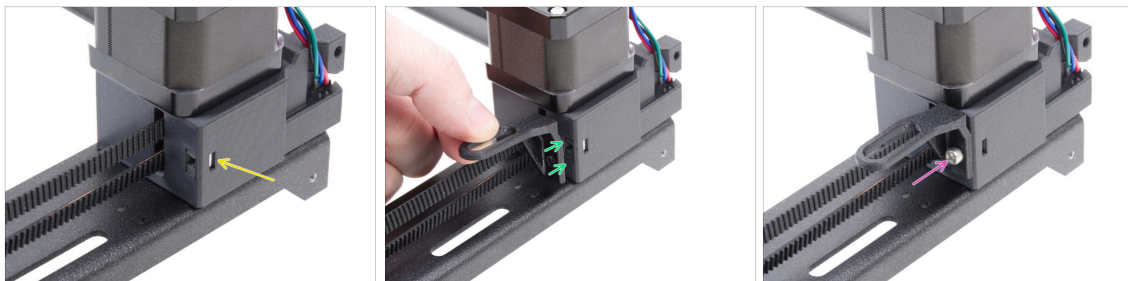
- Protáhněte stahovací pásku skrz díl motor-mount-right (motor osy Y).
- Route the Y motor cable through the cable channel in the motor-mount-right and over the zip tie.
- Secure the cable with a zip tie and trim the excess.

KROK 62 Securing the X motor cable



- ✚ Push the zip tie through the motor-mount-left (X-axis motor).
- ✚ Route the X motor cable through the cable guide in the motor-mount-right and over the zip tie.
- ✚ Secure the cable with a zip tie and trim the excess.

KROK 63 Installing the bowden guide



- ✚ Vložte matku M3nS do dílu motor-mount-right (motor osy Y).
- ✚ Attach the bowden-guide to the 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:

White LED strip (1x) found in the Electronics & Fasteners package

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

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

Šroub M3x4rT (2x)

KROK 65 Sticking the White LED strip



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

! After removing the protective layer, the LED strip is adhesive.

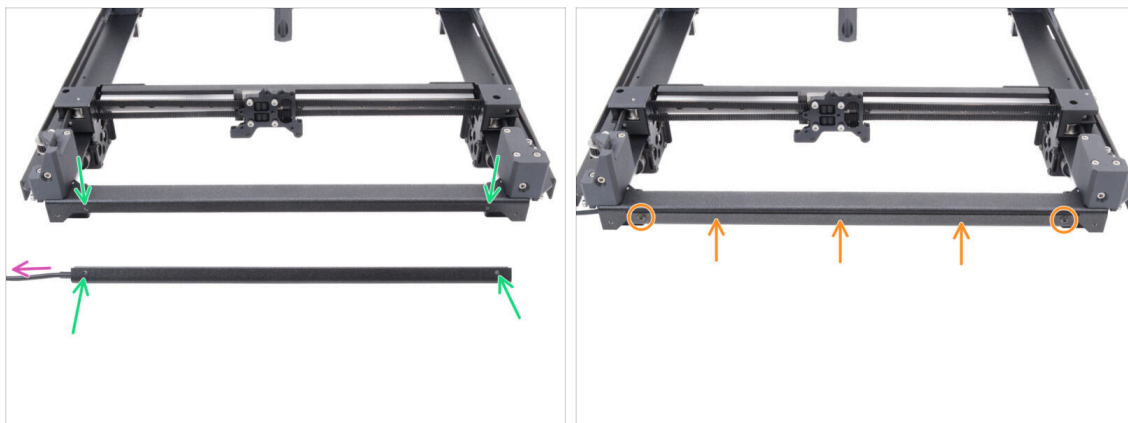
Position the White LED strip near the CoreXY strut to check alignment, but **do not attach it yet**.

! 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.
- **The white LED strip cable must point to the left.**
- Attach the LED assembly to the CoreXY plate and secure it with two M3x4rT screws.

KROK 67 Senzor dvířek & Bílý LED pásek: příprava dílů



- **For the following steps, please prepare:**
- Door sensor (1x) *found in the CORE XY parts + hinges + HB set package*
- M2.5x10 screw (1x) *silver*
- Stahovací páska (4x)

KROK 68 Vložení stahovacích pásek



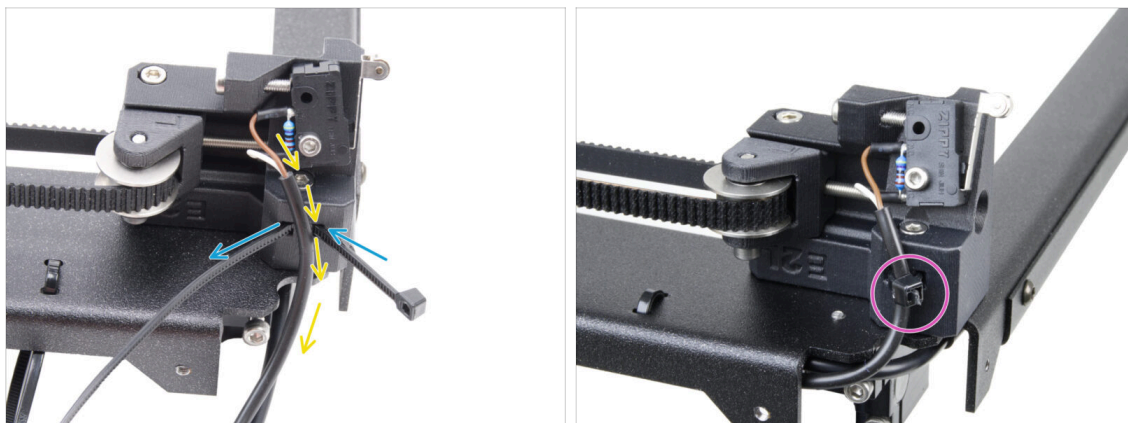
- ◆ Flip the CoreXY assembly upside down and rest it on the motors.
- ◆ Position it with the white LED strip cable facing toward you.
- ◆ Thread three zip ties through the CoreXY plate, ensuring the zip tie heads point inward.
- ◆ Partially tighten the zip ties—just enough to catch the first few teeth.
- ⚠ **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 Instalace senzoru dvířek



- ◆ Place the door sensor on the left belt tensioner. The lever of the door sensor must face forward.
- ◆ Secure the door sensor with the M2.5x10 screw.
- ◆ 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 Zajistění kabelu senzoru dvířek



- ◆ Push the zip tie through the hole in the left belt tensioner.
- ◆ Guide the door sensor cable through the zip tie.
- ◆ Tighten the zip tie to secure the door sensor cable. Cut off the excess.

KROK 71 Vedení kabelů: LED a senzor dvířek



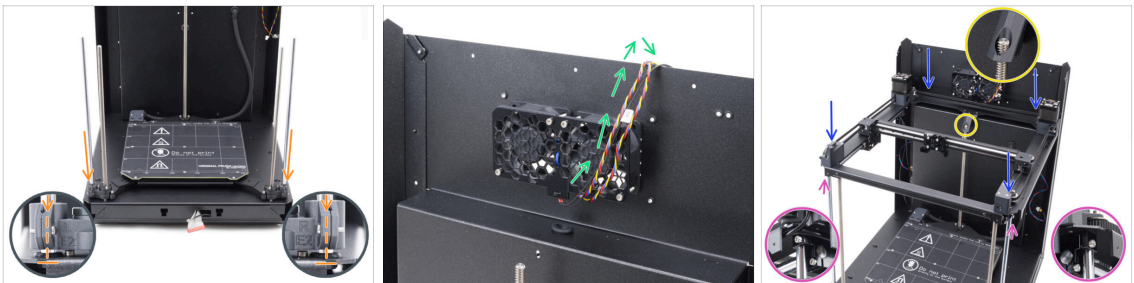
- ◆ Prepare a cardboard box. You can use any box from the kit. *The box used in the picture is for illustrative purposes only.*
- ◆ Flip the CoreXY assembly upside down, positioning the smooth rods on top.
- ◆ Slightly lift and support the front side of the CoreXY assembly with the cardboard box.
- ⚠ **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 Hlazené tyče osy: příprava dílů



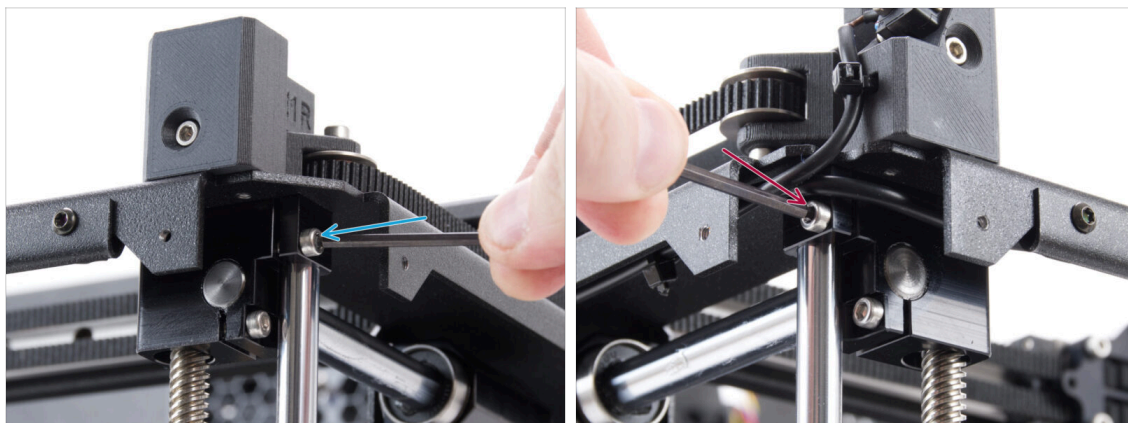
- For the following steps, please prepare:
- Smooth rod 330 x 8 mm (2x) *originally from the Y-axis.*
- Šroub M3x8rT (1x)

KROK 73 Instalace sestavy CoreXY



- Carefully insert both smooth rods through the heatbed assembly bearings and into the rod mount part in the base assembly.
- ⚠ **It is a requirement to insert the smooth rod in the axis with the bearing very slowly to prevent the balls from shooting out of the bearing.**
- 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 Zajištění hlazených tyčí

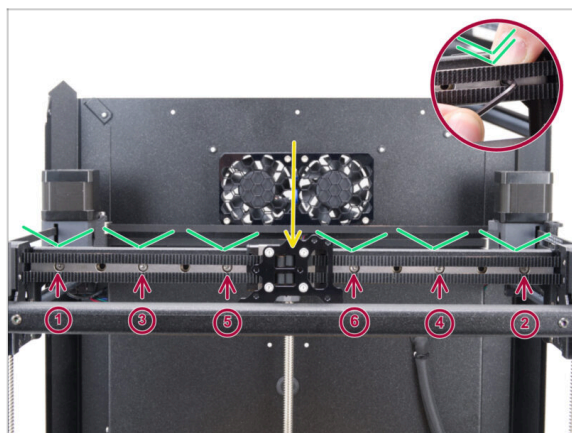


⚠ Check that both smooth rods are seated correctly in the holders.

🔵 Firmly tighten the right M3x10 screw to secure the smooth rod.

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

KROK 75 Zarovnání lineárního vedení

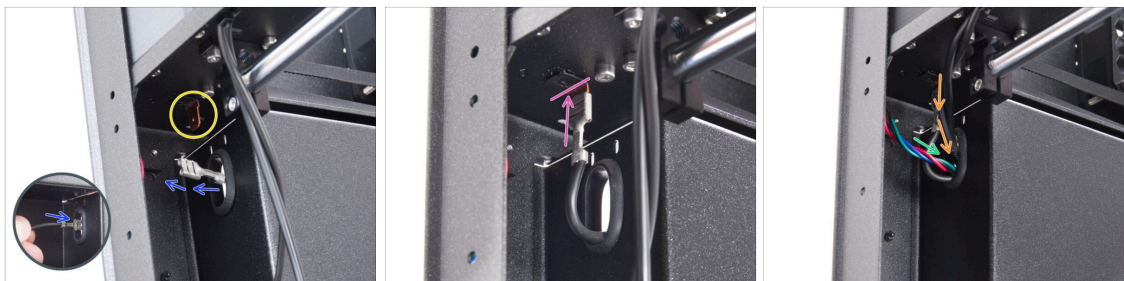


🟡 Move the linear rail carriage to the center.

⚠ Firmly tighten all screws in the order shown in the picture.

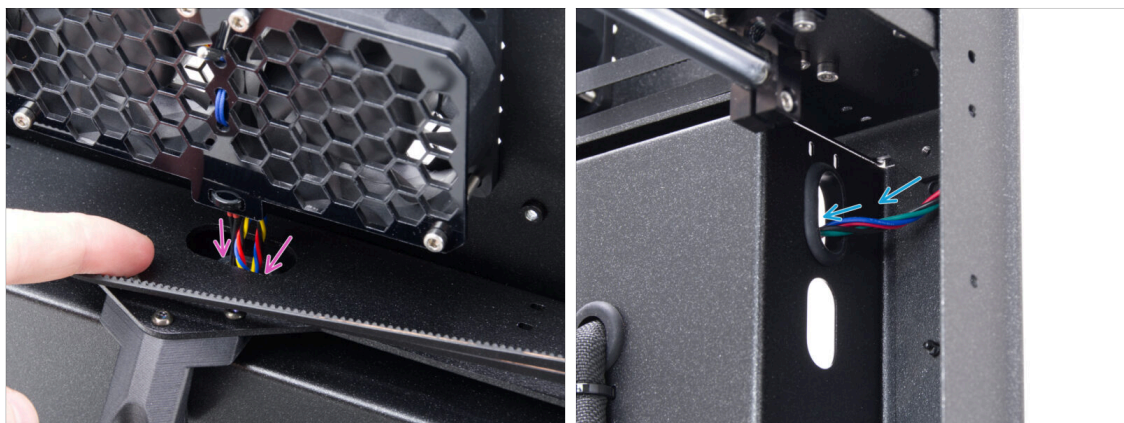
🟢 Push the linear rail down while tightening.

KROK 76 Vedení corexy kabelů



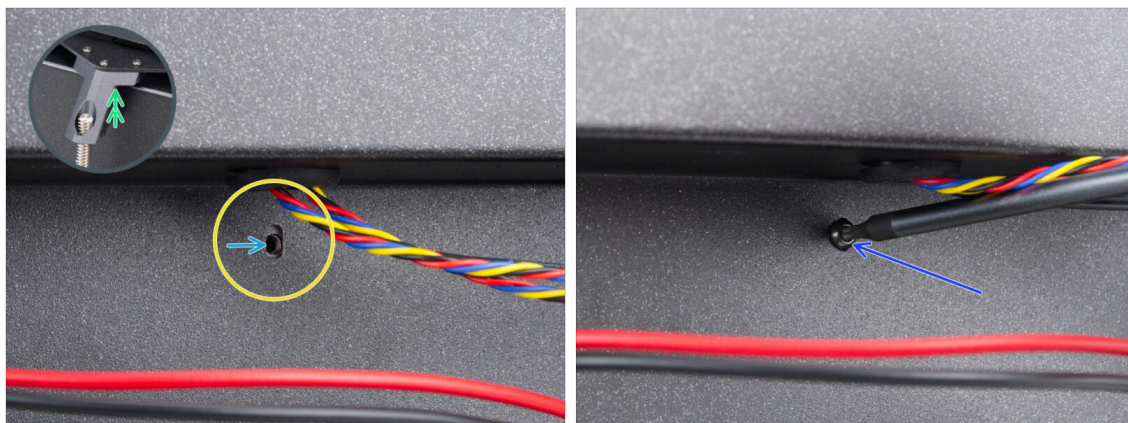
- From the back of the printer, push the FE connector through the oval hole.
- Locate the FE cable connector (number 5) in the rear left corner - under the CoreXY assembly.
- Plug the FE connector onto the Faston on the underside of the CoreXY plate.
- On the same side, push the X motor cable through 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 Vedení kabelů ventilátoru



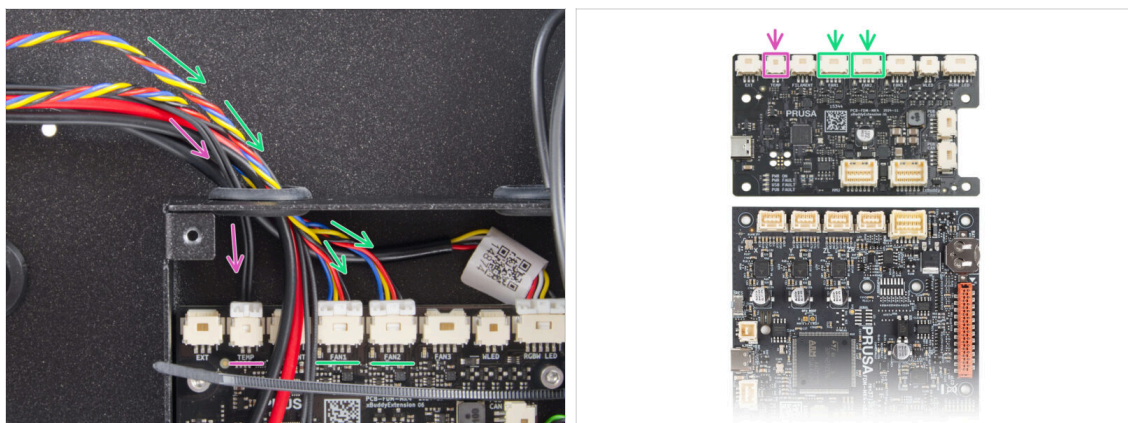
- Push the cooling fan and thermistor cables through the oval hole in the back panel.
- On the right back corner, locate the Y motor cable and push it through the upper oval hole in the back panel.

KROK 78 Fixing the bed-stop



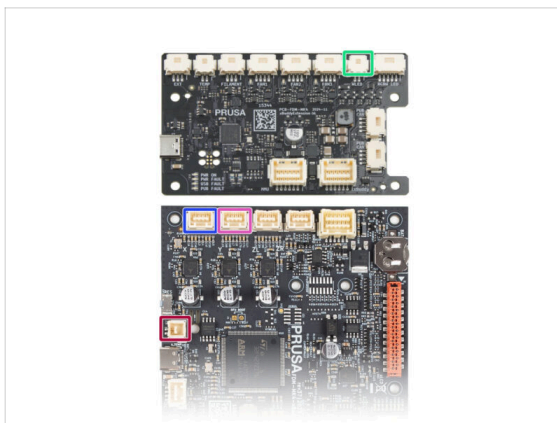
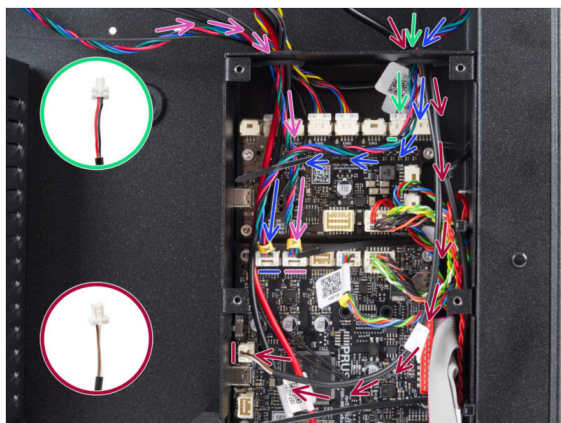
- ✦ From the back side, locate the oval screw hole under the cooling fans.
- ✦ The oval hole must be flush with the hole in the bed-stop part on the opposite side.
- ✦ To compensate, slightly raise the rear of the CoreXY assembly - just a few millimeters.
- ✦ After aligning the holes, secure them with an M3x8rT screw.

KROK 79 Připojení kabelů chladicích ventilátorů



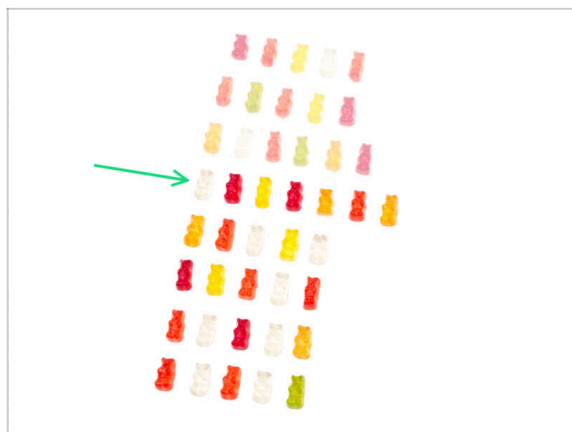
- ✦ Route the cooling fan cables through the left hole in the xBuddy box and plug them into the fourth and fifth slots on the xBuddy extension board labeled FAN 1 and FAN 2.
- ❗ The connection order does not matter, both cables are the same.
- ✦ Guide the chamber thermistor cable together with the cooling fan cables.
- ✦ Connect it to the second slot from the left on the xBuddy extension board labeled TEMP.

KROK 80 Zapojení kabelů CoreXY



- 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.
- Guide the door sensor cable through the right hole in the xBuddy box. Connect it to the lower slot on the left side of the xBuddy board.
- 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 Je čas na Haribo!



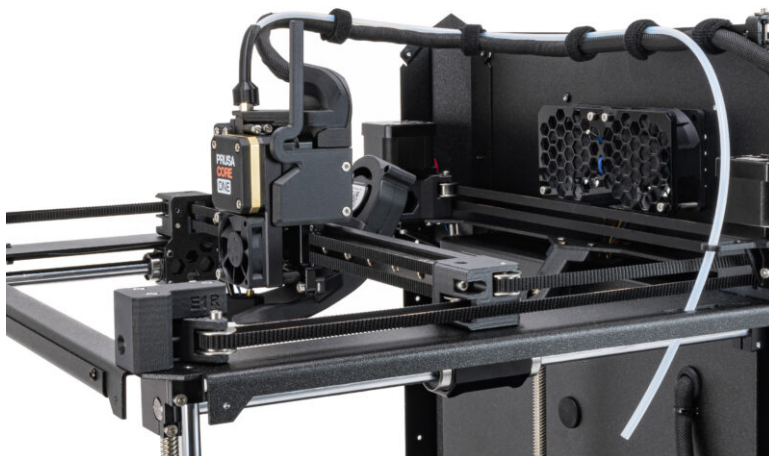
- Think it's snack o'clock again.
- Zasloužíte si sníst celý sáček, ale... Snězte jen čtvrtou řadu.

KROK 82 Hotovo

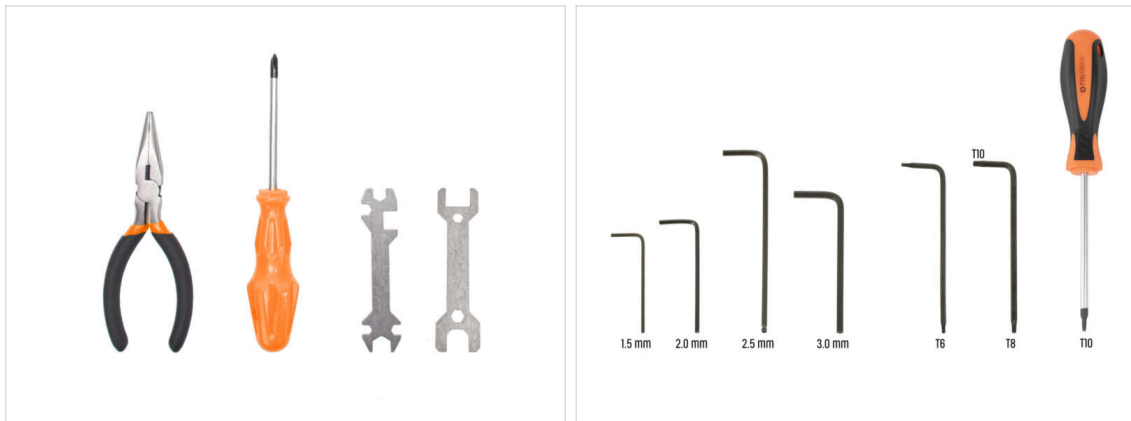


- Congratulations! You have just assembled and installed the CoreXY assembly.
- Přejděte na další kapitolu.

6. Montáž Nextruderu



KROK 1 Tool necessary for this chapter



- **For this chapter, please prepare:**
- Univerzální klíč
- 1,5mm inbusový klíč
- 2,5mm inbusový klíč
- T6 Torx klíč
- 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*
- Kolíček (pin) 2,9x8,5 (2x) *naleznete v balíčku Electronics*
- Šroub M3x6 (1x)
- Tubular spacer 13.2x3.8x0.35 (1x) *found in the Electronics package*

KROK 3 Assembling the extruder idler

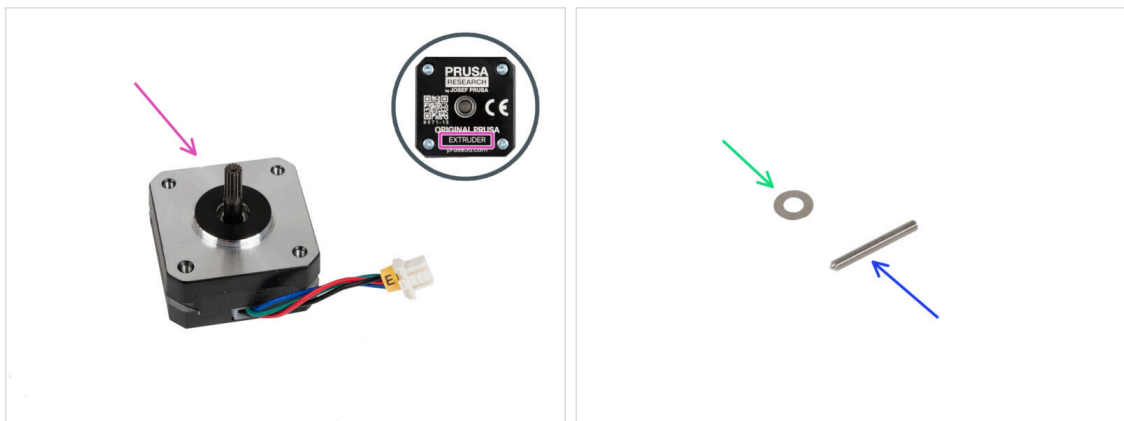


- Place both bearings into the Idler-lever-a.
- Insert the pin 2.9x8.5 into each bearing 693 2RS, as seen in the picture.
- Close it up with the Idler-lever-b part and secure it with the M3x6 screw. **Do not overtighten the screw.** Both bearings must be able to rotate without significant resistance.
- 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 (1x) *naleznete v balíčku Electronics*
- PG-assembly-adapter (1x) *found in the Electronics package*
- ① The list continues in the next step...

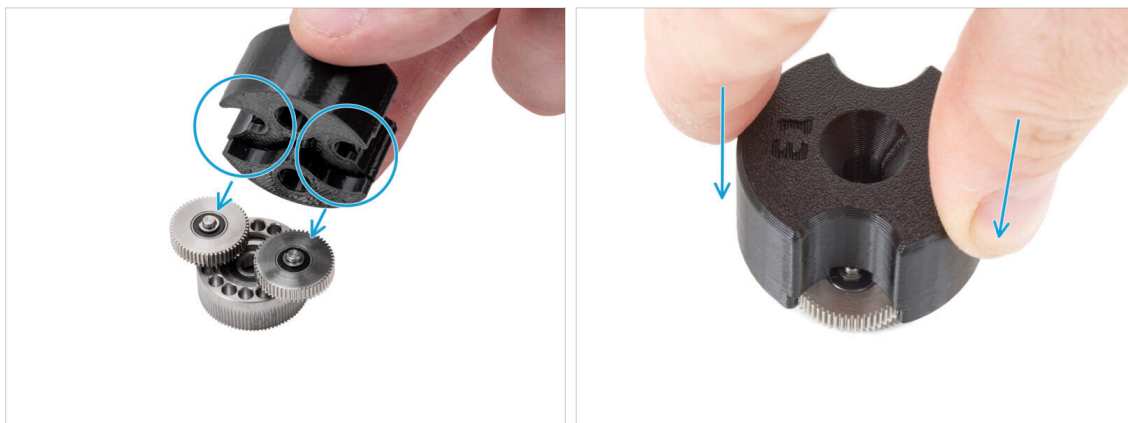
KROK 5 Assembling the extruder: parts preparation II.

- ◆ 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 Sestavení extruderu

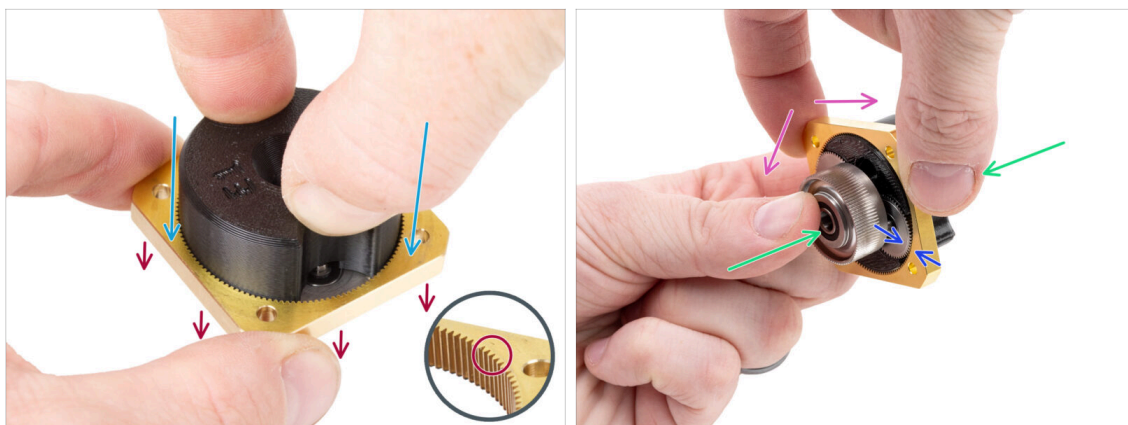
- ◆ Place the 5x10x0.1 spacer over the shaft on the extruder motor.
 - ◆ Place the heatsink on the extruder motor. Note the orientation of both parts.
 - ◆ The motor cable must be facing "up".
 - ◆ The heatsink cables must be on the right side.
 - ◆ Place the main-plate on the heatsink. Note the orientation of the part. Use the cutout as a guide.
- ⚠ **Before proceeding to the next step, make sure that the 5x10x0.1 spacer is placed on the extruder motor.**

KROK 7 Sestavení převodovky



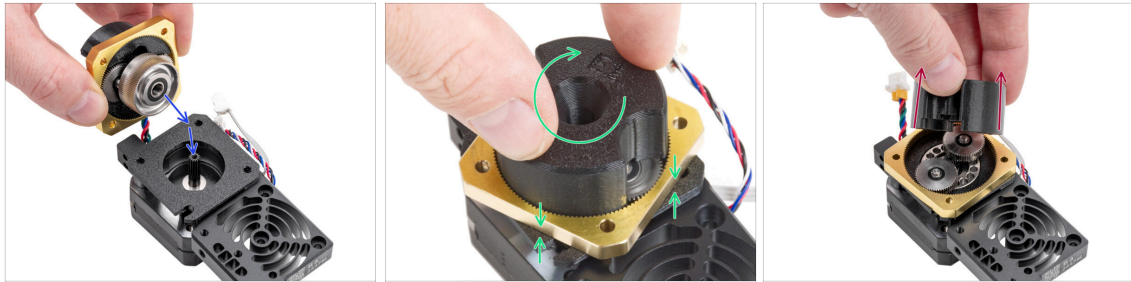
- i** The following instructions need to be done correctly and carefully. Achieve better understanding and successful assembly by watching the video alongside the guide: prusa.io/PG-assembly
- After watching the video, follow the steps in this guide.
 - Attach the PG-assembly-adapter on the PG-assembly. Note the pockets for the gears in the adapter.

KROK 8 Sestavení dílu PG-ring



- ⚠ Do not assemble the gearbox without the PG-assembly-adapter.** This tool is intended to ensure that the gears are correctly fit together.
- Slide the PG-ring onto the adapter.
 - 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.
 - With the other hand, slide the PG-ring onto the PG assembly in a wobbling motion (move the PG-ring left and right repeatedly) - a quarter turn is enough.
 - Stop when the surfaces of the gears are approximately flush with the surface of the PG ring.

KROK 9 Montáž PG-assembly



 **Proceed very carefully in this step.**

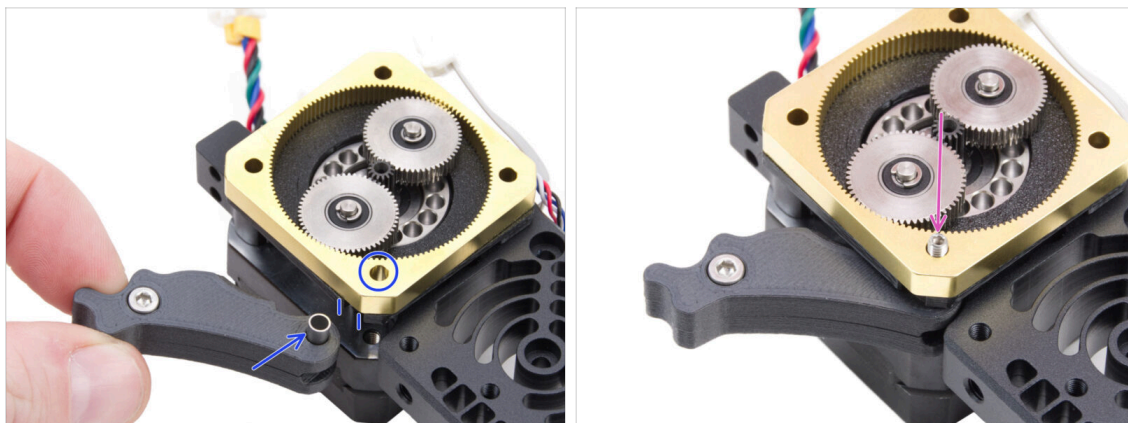
-  Maintain the position of the PG-assembly and attach it on to extruder motor shaft.
-  Very gently and freely rotate with the whole PG assembly (PG-assembly-adapter, PG-assembly and PG-ring) until it drops down so that there is no gap between the assembly and the main-plate. **Do not push on the assembly.**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

KROK 10 Kontrola 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.
-  Ensure that the gap between the PG-ring and the Main-plate is minimal. If a significant gap is observed, disassemble the planetary gear assembly and reposition it.

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*
 - ⓘ Logo na předním krytu Nextruderu zůstane **PRUSA CORE ONE**.
- Šroub M3x25 (3x)
- Lubricant (1x) *found in the Electronics & Fasteners package*
- Several paper towels to wipe grease from your hands.

KROK 13 Mazání převodovky



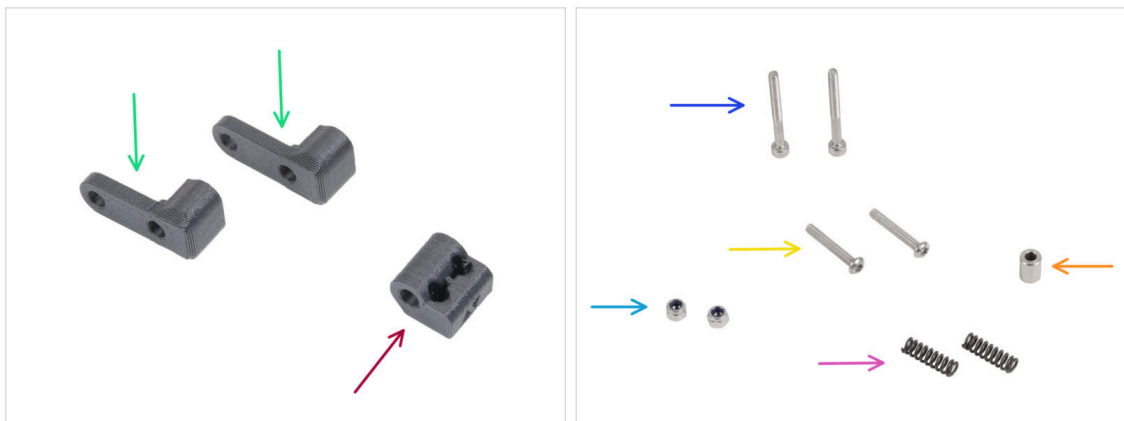
- Remove the cap from the lube. Use the spike on the opposite side of the cap to pierce a hole in the lube tube opening.
- Naneste malé množství maziva na špičku stahovací pásky a poté jej rozetřete po ozubených kolech.
- Apply a small amount of Prusa Lubricant **all around** the PG-ring and PG-assembly 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.
- ① The screws on the front case will be completely tightened during the self-test in the final chapter.

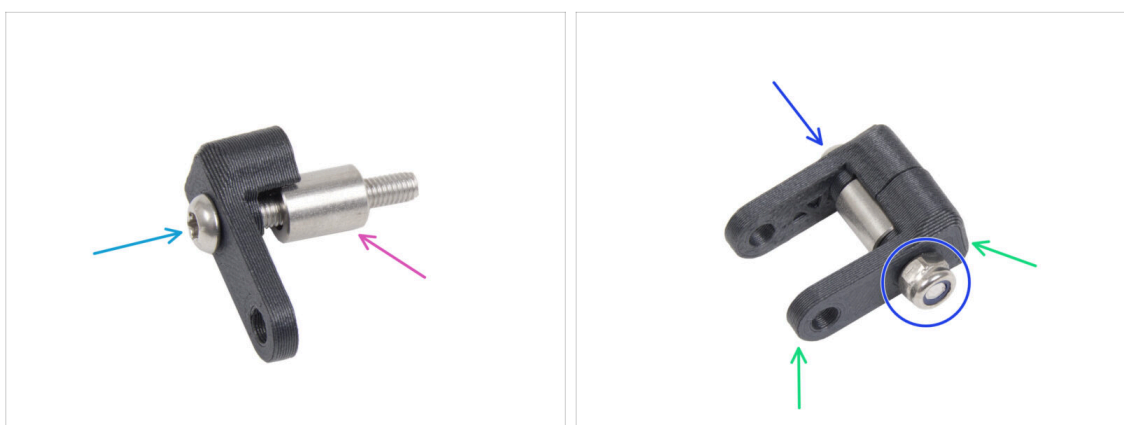
KROK 15 Assembling the Idler-swivel: parts preparation



● For the following steps, please prepare:

- Idler-swivel (2x) found in the Electronics package
- Idler-nut (1x) found in the Electronics package
- Šroub M3x30 (2x)
- Šroub M3x20rT (2x)
- Matka M3nN (2x)
- Spring 15x5 (2x) found in the Electronics package
- Spacer 6x3.1x8 (1x) found in the Electronics package

KROK 16 Sestavení přítlačné záklopy Idleru (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 Montáž dílu 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



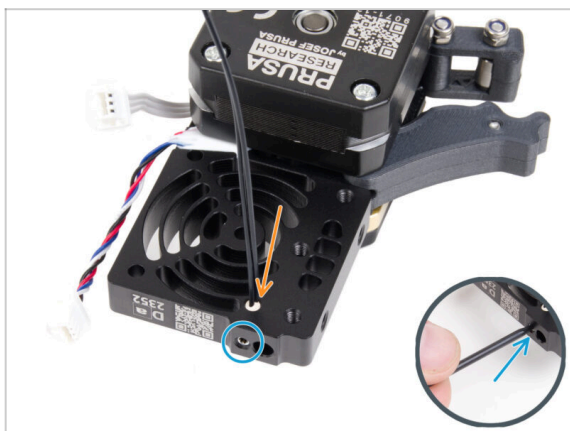
- Attach the spring 15x5 on both M3x30 screws.
- Push the two screws with the springs through the holes in the protrusion on the heatsink. There are no threads inside.
- Na šrouby připevněte sestavu Idler-swivel. Podívejte se na správnou orientaci dílu Idler-nut. Strana s tečkami musí být viditelná. Viz obrázek.
- 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



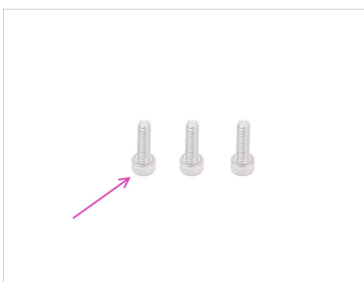
- For the following steps, please prepare:
- NTC thermistor 90 mm (1x) found in the *Electronics* package
- M3x4T grub screw (1x)

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



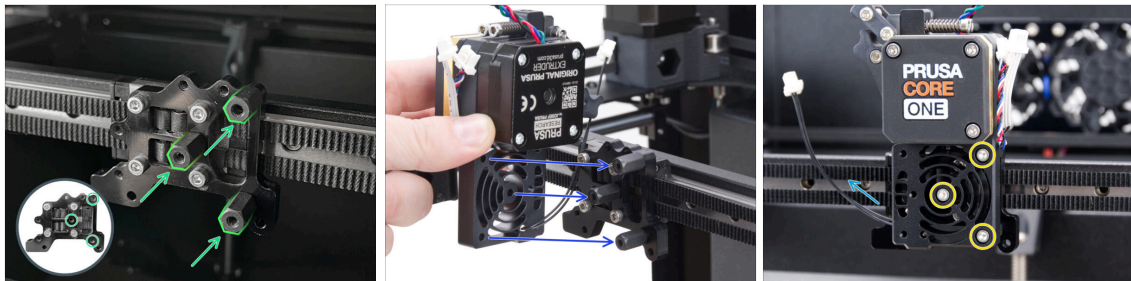
- For the following steps, please prepare:
- Nextruder spacer (3x) found in the *Electronics & Fasteners* package
- Šroub M3x10 (3x)
- Cardboard box (1x) used as temporary heatbed protection
- ⓘ Hint: You can use any cardboard box from the kit package.

KROK 22 Ochrana vyhřívané podložky



- 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 Montáž Nextruderu



- 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.

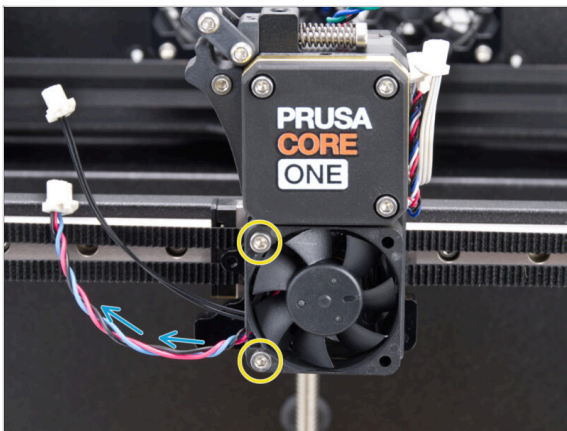
KROK 24 Ventilátor hotendu: příprava dílů



For the following steps, please prepare:

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

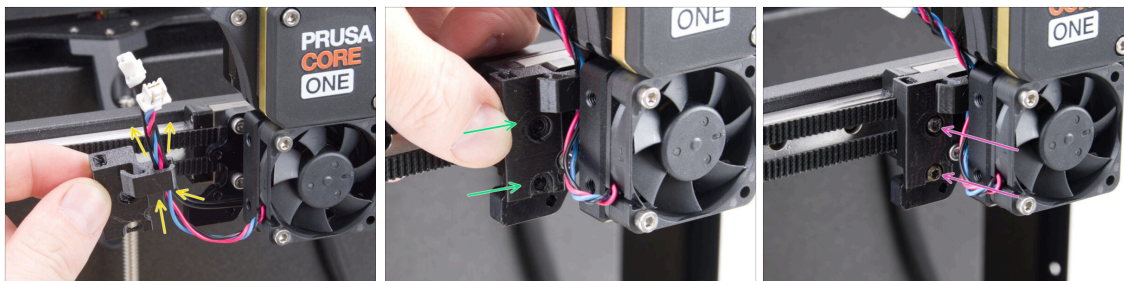
KROK 25 Montáž ventilátoru hotendu



- 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 Vedení kabelu ventilátoru hotendu.

- ✦ 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:**

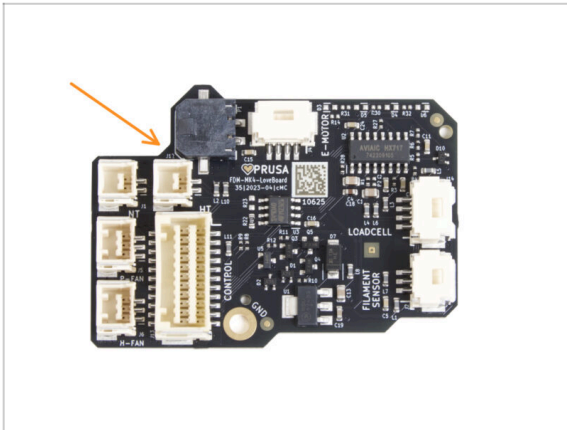
- ✦ Printhead-cover (1x) *found in the Printed parts package*
- ✦ Loveboard-mount (1x) *found in the Printed parts package*
- ✦ Main cable (1x) *found in the Electronics & Fasteners package*

ⓘ Note: Cable color may vary depending on the batch. This does not affect the procedure.

- ✦ Šroub M3x10 (4x)
- ✦ Šroub M3x8rT (1x)
- ✦ Matka M3nS (5x)

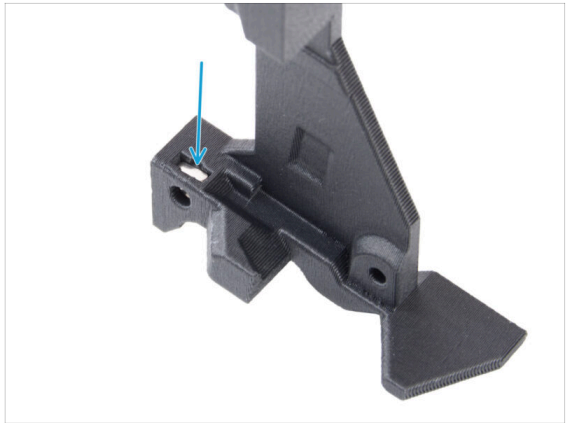
ⓘ The list continues in the next step...

KROK 28 LoveBoard: parts preparation II.



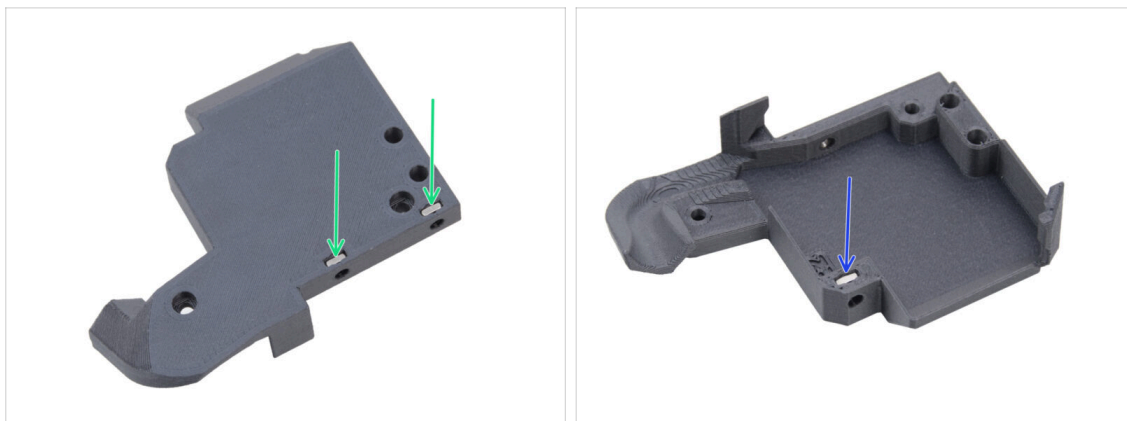
- Pro následující kroky si prosím připravte:
- LoveBoard (1x) found in the Electronics package

KROK 29 Sestavení Loveboard-mount



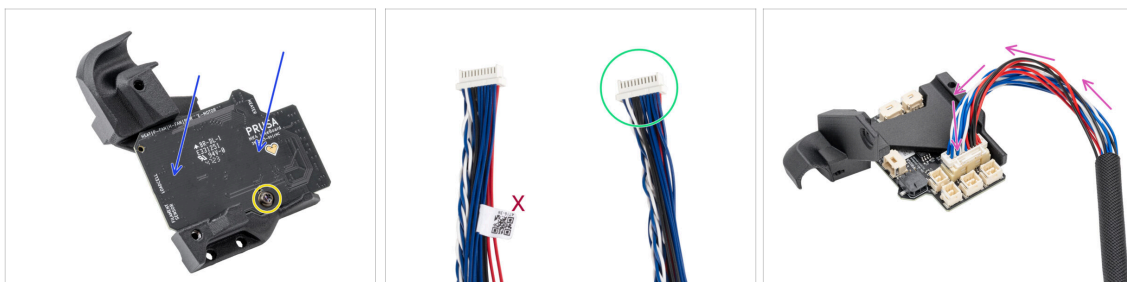
- Vyhledejte kabelový kanál ve tvaru písmene U na desce Loveboard a do blízkého otvoru vložte matici M3nS.
- Use a 2.5mm Allen key to push the nut all the way in.
- On the opposite side of the part, insert an M3nS nut and push it into place.

KROK 30 Sestavení Printhead-cover (krytu tiskové hlavy)



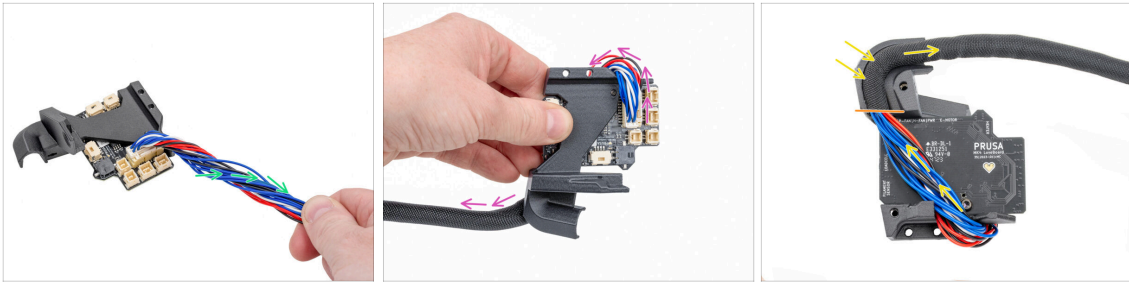
- 🟢 Ze zadní strany krytu printhead-cover vložte do dílu dvě matice M3x8.
- 🟡 From the other side of the printhead-cover, insert one M3x8 nut into the part.

KROK 31 Sestavení desky LoveBoard



- 🟡 Umístěte desku LoveBoard na držák LoveBoard (díl Loveboard-mount). Dbejte na správnou orientaci - konektory musí směřovat dolů.
- 🟢 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



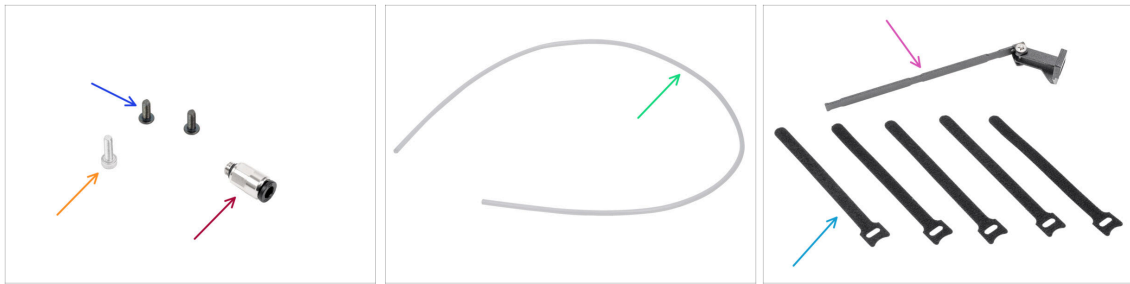
- 🟢 Otočte hlavní kabel o půl otáčky.
- 🟡 Fold the main cable over the LoveBoard to its opposite side.
- ⬛ Turn the LoveBoard assembly upside down.
- 🟡 Guide the main cable over the LoveBoard through the cable channel in the Loveboard-mount.
- 🟠 Konec textilního rukávu musí být zarovnan s okrajem plastového dílu.

KROK 33 Zakrytí desky LoveBoard



- 🟡 Vložte dva šrouby M3x10 do dílu 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.
 - ⚠️ **Dejte pozor, abyste neskřípli žádný z kabelů v hlavním kabelu.**
- 🟠 Fix both parts together using two M3x10 screws.
- 🟢 Check that there is no large gap or pinched textile sleeve between the parts.

KROK 34 Swingarm: parts preparation I.



● Pro následující kroky si prosím připravte:

- Šroub M3x8rT (2x)
- Šroub M3x10 (1x)
- Šroubení M5-4 (1x) *naleznete v balíčku Electronics & Fasteners*
- PTFE tube 710 x 4 x 2.5 (1x) *found in the CoreXY parts + Hinges set package*
- Swingarm assembly (1x) *found in the Metal parts 3/3 package*
- Cable tie (5x) *found in the Electronics & Fasteners package*
- ① Packed in a stack and must be separated.
- ① The list continues in the next step...

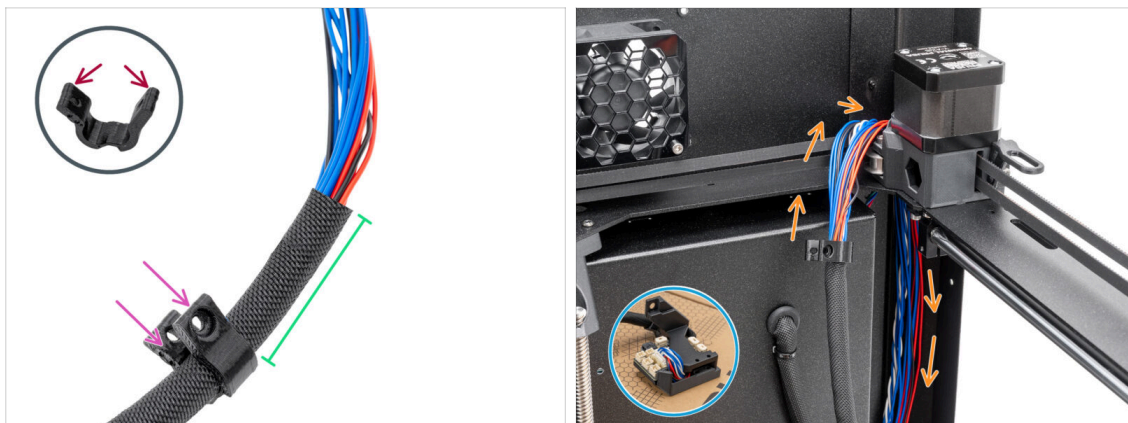
KROK 35 Swingarm: parts preparation II.



● Pro následující kroky si prosím připravte:

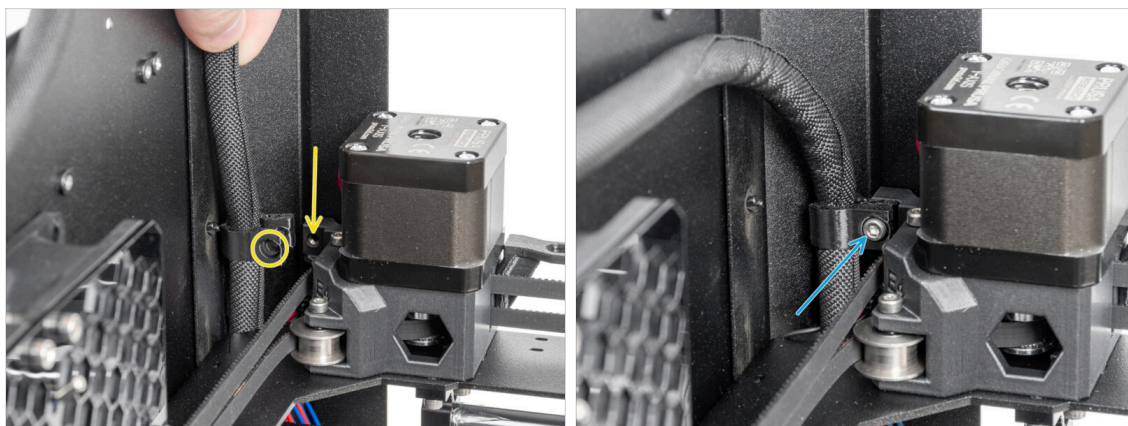
- Bowden-bend (1x) *found in the Printed parts package*
- Main-cable-clip (1x) *found in the Printed parts package*

KROK 36 Guiding the main cable



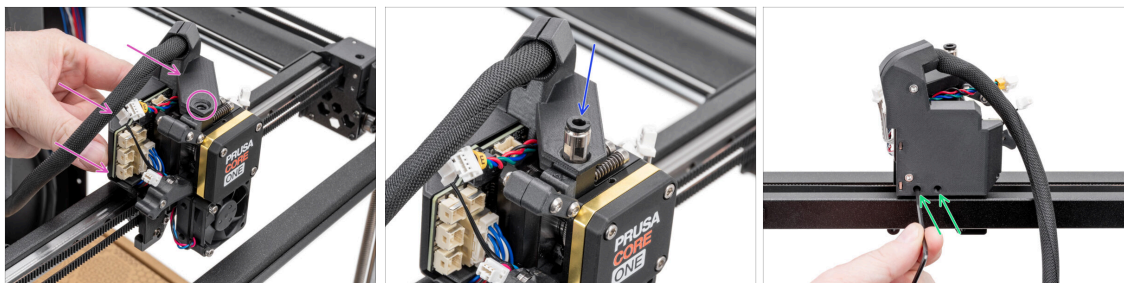
- Opatrně otevřete svorku hlavního kabelu. Dávejte pozor, aby nedošlo k prasknutí dílu.
- Insert the main cable into the Main-cable-clip.
- Umístěte svorku Main-cable-clip přibližně 5 - 15 cm od konce textilního rukávu a svorku zavřete.
- Sestavu LoveBoardu položte na kartonovou krabici na vyhřívané podložce.
- Push the main cable behind the CoreXY assembly in the right rear corner.

KROK 37 Mounting the main cable



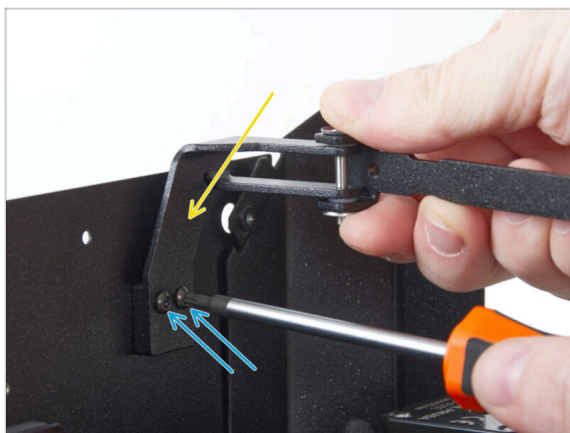
- V pravém rohu tiskárny na sestavě motoru Y najděte otvor v plastovém dílu a zarovnejte jej s hlavní kabelovou sponou.
- Fix the main-cable-clip with the cable to the hole using the M3x10 screw.

KROK 38 Attaching the LoveBoard assembly



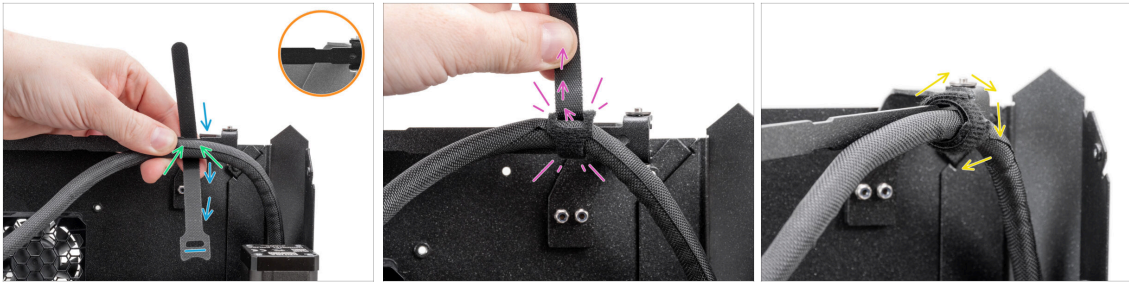
- ◆ Zapojte napájecí kabel z pravé strany tiskárny.
- ◆ Align the hole in the Loveboard-mount with the threaded hole in the top of the heatsink (Nextruder).
- ◆ Insert and tighten the fitting M5-4 to the heatsink. Use the universal wrench.
- ◆ Utáhněte dva šrouby M3x10 na zadní straně Nextruderu, abyste zajistili sestavu LoveBoard.

KROK 39 Osazení swingarmu



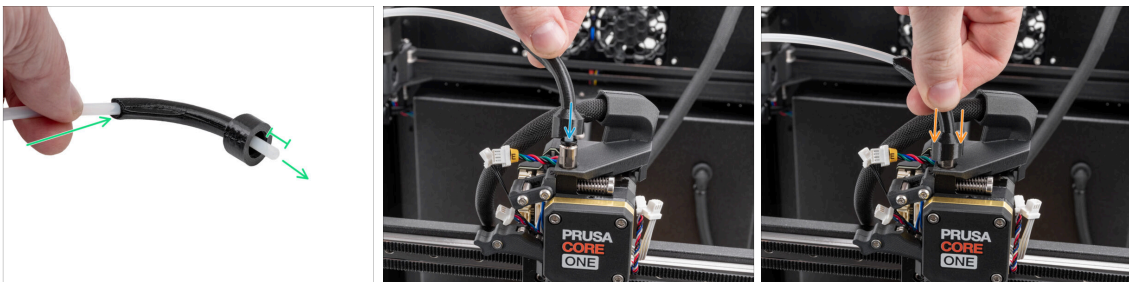
- ◆ Sestavu swingarmu připevněte k páru závitových otvorů na zadním panelu, poblíž pravého horního rohu.
- ◆ Secure it with two M3x8rT screws.
- ⚠ Do not overtighten the screws, as this may strip the threads.

KROK 40 Attaching the main cable



- Podívejte se, kde má swingarm výřezy v profilu.
- 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.
- Konec kabelové pásky protáhněte jejím očkem a omotejte kolem swingarmu a hlavního kabelu.
- Tighten the cable tie as much as possible.
- Wrap the cable tie around.

KROK 41 Inserting the PTFE tube



- Jeden konec PTFE trubičky zatlačte do dílu bowden-bend tak, aby vám z dolního (širokého) konce čouhal alespoň 1 cm trubičky.
- 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



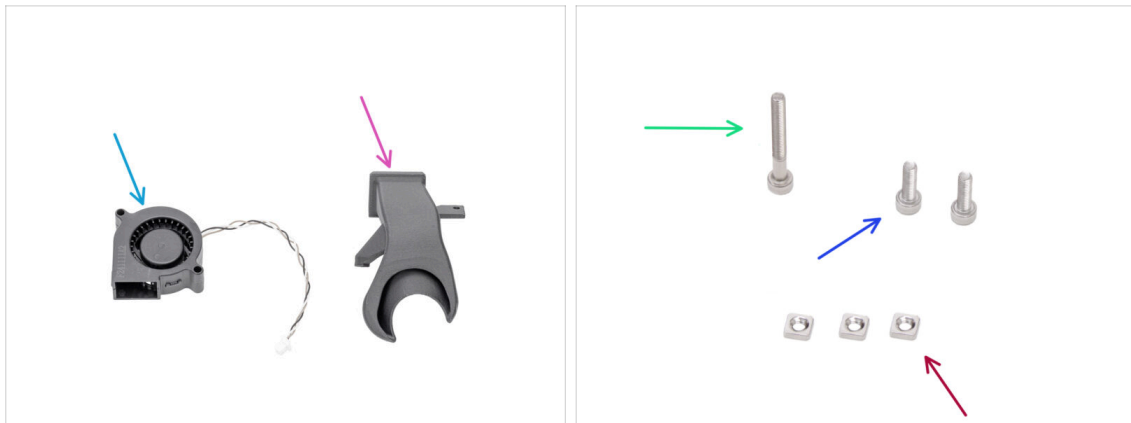
- ◆ PTFE trubičku vedte souběžně s hlavním kabelem a dbejte na to, aby trubička zůstala nad hlavním kabelem.
- ◆ Secure the PTFE tube and main-cable to the swingarm using two cable ties to the remaining cutouts.
- ⚠ Do not pass the PTFE tube through the first cable tie on the swingarm.
- ◆ Volný konec PTFE trubičky prostrčte očkem pro bowden (bowden guide) a pak skrze otvor v rámu tiskárny (CoreXY plate). Volný konec trubičky zatím nechte viset.
- ◆ Merge the PTFE tube and main-cable with the remaining two cable ties, leaving a 10 cm (3.94 in) distance between them.

KROK 43 Kontrola pohyblivosti



- ◆ Ručně několikrát posuňte osy XY do jejich koncových poloh a ujistěte se, že:
- ◆ The main cable is not too tight and does not pull the Nextruder backward.
- ◆ Hlavní kabel nevytváří příliš velký oblouk.
- ◆ Pokud je kabel příliš napnutý nebo tvoří velký oblouk, mírně povolte šroub na hlavní kabelové sponě a kabel vytáhněte o několik milimetrů nahoru nebo dolů. Poté šroub utáhněte a proveďte další zkoušku.

KROK 44 Print fan: parts preparation



● Pro následující kroky si prosím připravte:

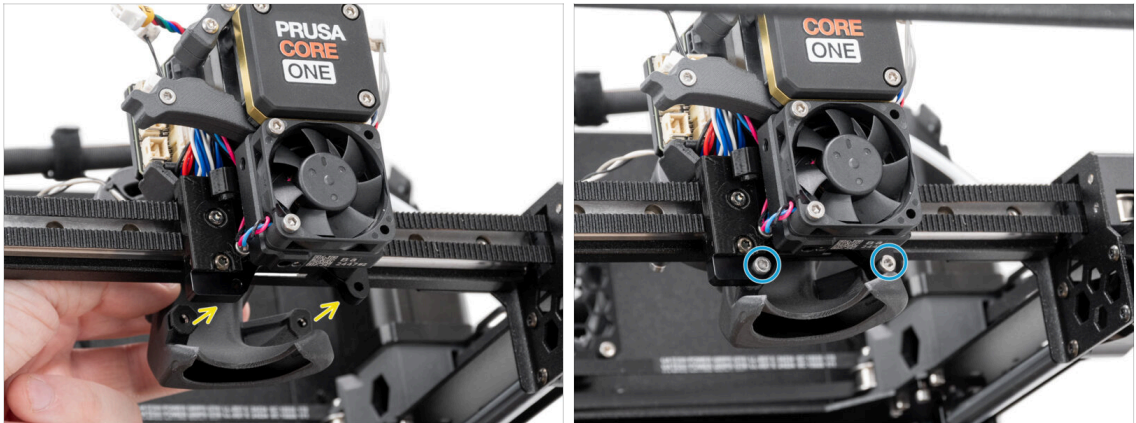
- Print fan (1x) found in the Electronics package
- Fan-shroud (1x) found in the Printed parts package
- Šroub M3x25 (1x)
- Šroub M3x10 (2x)
- Matka M3nS (3x)

KROK 45 Sestavení dílu fan-shroud



- Z jedné strany vložte do krytu ventilátoru (fan-shroud) dvě matky M3nS.
 - 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.
 - Sešroubujte oba díly k sobě s pomocí jednoho šroubu M3x25.
- ⚠ Do not overtighten the screws to avoid damaging the fan housing.

KROK 46 Installing the print fan assembly



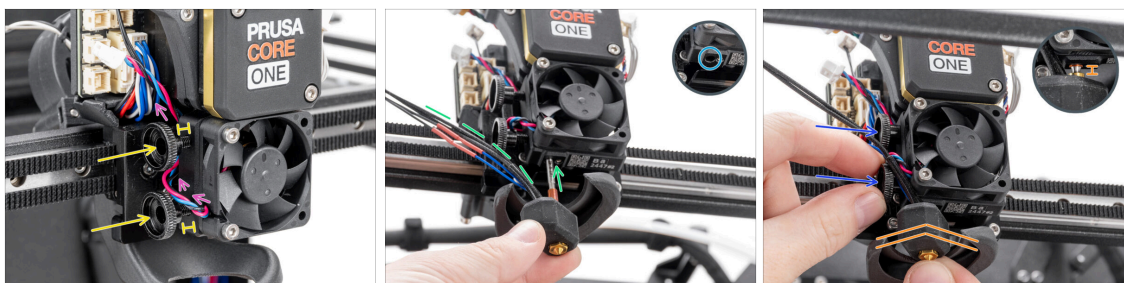
- Připevněte sestavu tiskového ventilátoru na zadní část Nextruderu.
- Align the holes in the Nextruder bracket with the holes in the fan-shroud.
- Secure the fan-shroud to the Nextruder holder using two M3x10 screws.

KROK 47 Hotend: příprava dílů



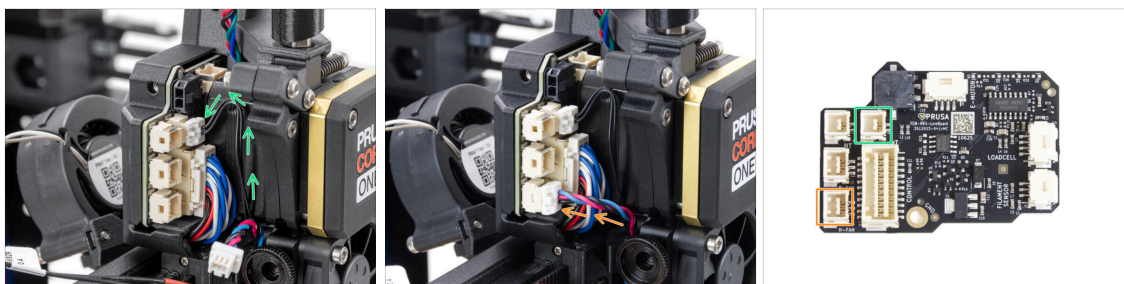
- Pro následující kroky si prosím připravte:
- Thumb screw (2x) found in the Electronics package
- Prusa Hotend assembly (1x) found in the Electronics package

KROK 48 Instalace hotendu



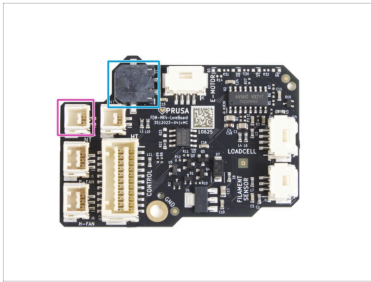
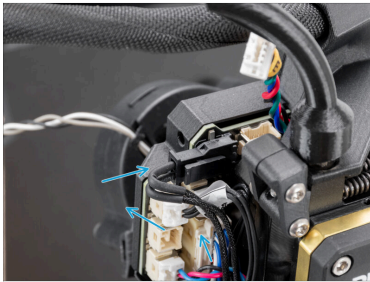
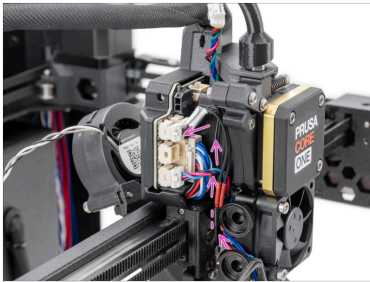
- ✿ Vedte kabel ventilátoru chladiče nad prvním otvorem se závitem v chladiči.
 - ✿ Insert two thumb screws into the heatsink. **Do not tighten them completely.** Two turns are enough for now.
 - ✿ Look closely at the underside of the heatsink and find the hole for the hotend assembly.
 - ✿ Vložte trubičku sestavy hotendu do otvoru a zasuňte ji celou do chladiče.
 - ✿ 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



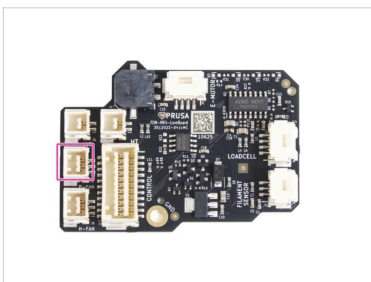
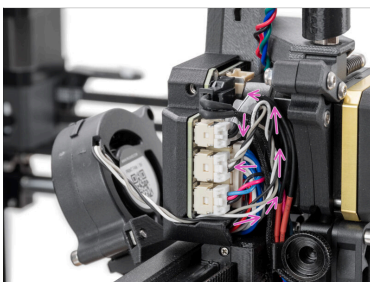
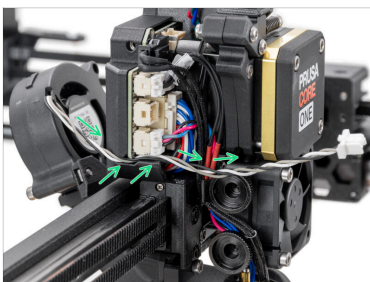
- ✿ Zapojte NTC kabel termistoru do konektoru nad hlavním kabelem na desce LoveBoard.
- ✿ Zapojte kabel ventilátoru hotendu do spodního konektoru v levé řadě desky LoveBoard.

KROK 50 Connecting the hotend cables



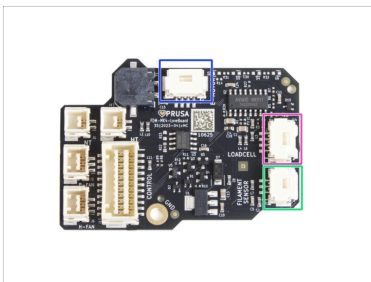
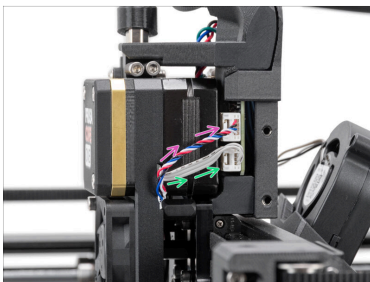
- ◆ Vedte termistor hotendu skrz kabelovou svorku na Nextruderu a připojte jej k desce LoveBoard.
- ◆ Guide the hotend heater through the cable-clip on the Nextruder and connect it to the LoveBoard.

KROK 51 Connecting the print fan cable



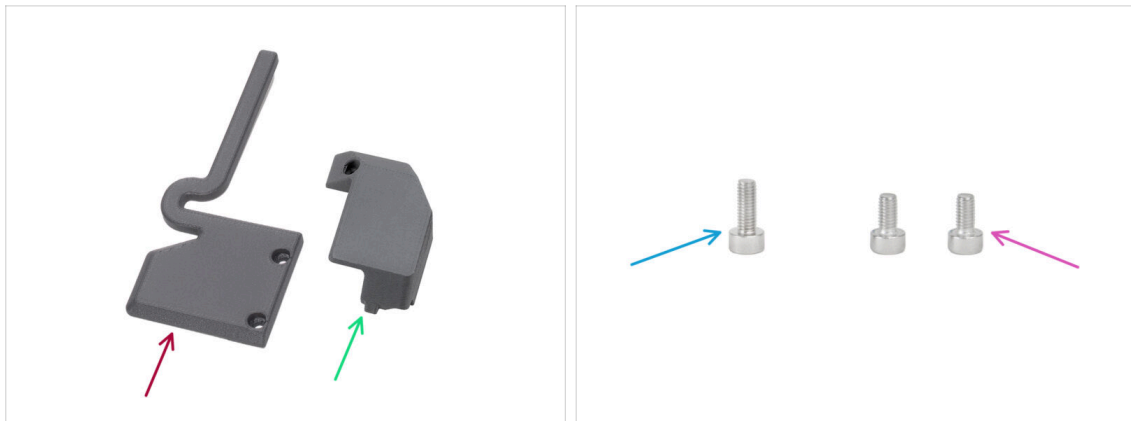
- ◆ Vedte kabel tiskového ventilátoru drážkou plastovém krytu.
- ◆ Create a loop with the print fan cable in the cable area and plug it into the middle connector in the LoveBoard.

KROK 52 Zapojte kabel motoru označený E



- ◆ Zapojte motor Nextruderu (označen E) do konektoru na horní straně.
- ◆ 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.

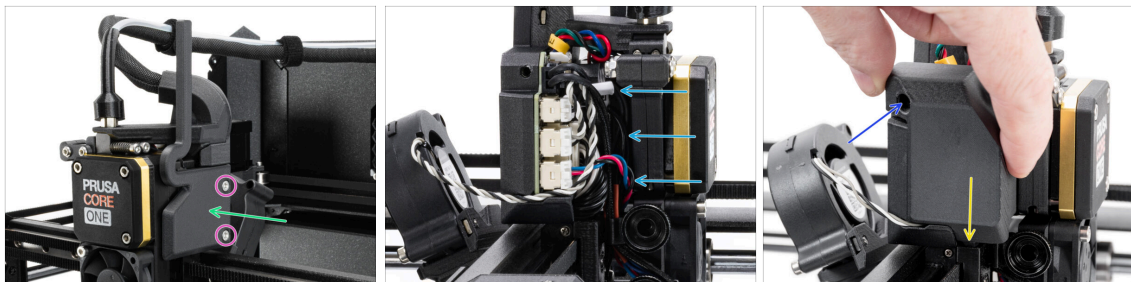
KROK 53 LoveBoard covers: parts preparation



● Pro následující kroky si prosím připravte:

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

KROK 54 Zakrytí desky LoveBoard

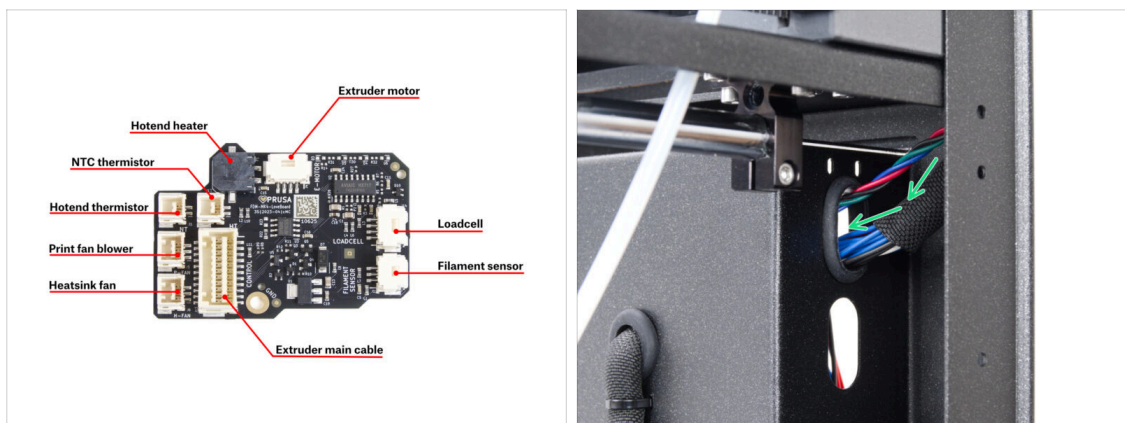


- Umístěte díl Print-head-cover-right-lever na pravou stranu Nextruderu.

⚠ Do not pinch the cables!

- Secure the cover with two M3x6 screws.
- Stlačte kabelový svazek co nejvíce dovnitř desky LoveBoard, aby nevyčníval a nepřekážel při nasazování krytu.
- 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: kontrola zapojení



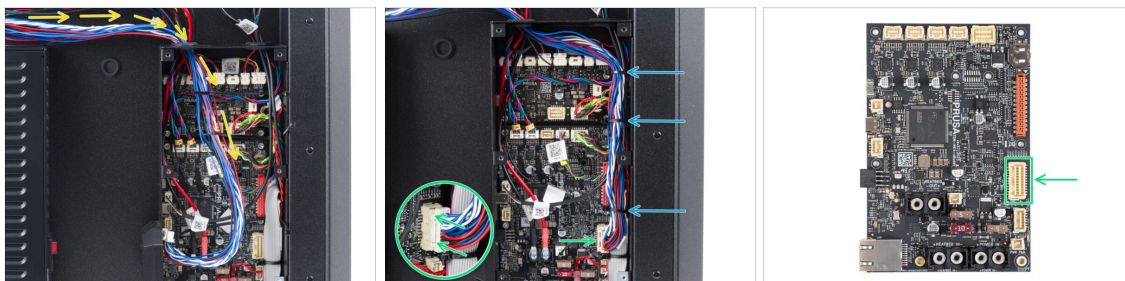
⚠ Před zakrytím elektroniky zkontrolujte zapojení všech kabelů.

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.

⬛ Nechte prozatím konec kabelu volně viset.

KROK 56 Guiding the main cable



⬛ Rotate the printer so that the backside faces you.

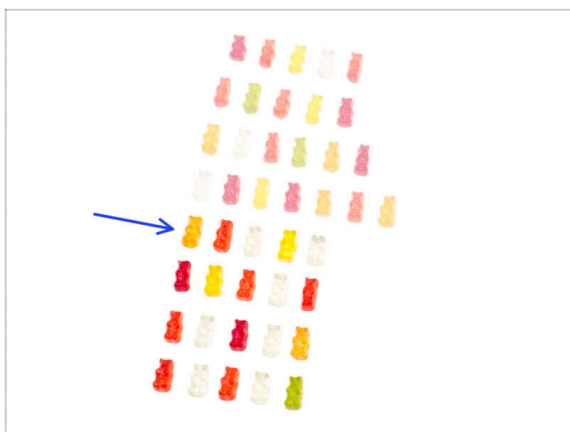
➡ Ved'te hlavní kabel levým otvorem do krabičky xBuddy.

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

i Pokud kabel nedosáhne až ke konektoru nebo je příliš napnutý, vraťte se ke kroku **Vedení hlavního kabelu** a kabel mírně povytáhněte z hlavní kabelové svorky směrem dolů.

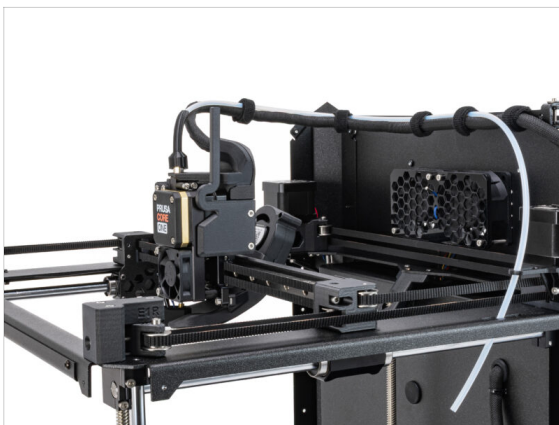
➡ Zajistěte kabely již dříve provlečenými stahovacími páskami v xBuddy boxu. Přebytké části pásek opatrně odstříhněte, **vyhněte se přestřihnutí kabelů..**

KROK 57 Je čas na Haribo!



- ⬢ Power up and push forward!
- ⬢ Eat the fifth row.
- ⬢ Nejste už přecpaní?

KROK 58 Hotovo

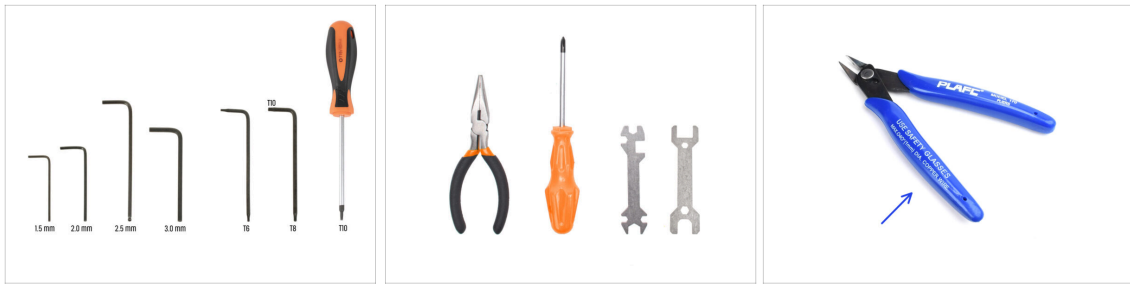


- ⬢ Congratulations! You just successfully assembled the Nextruder.
- ⬢ Let's move to the next chapter.

7. Bodywork & Electronics



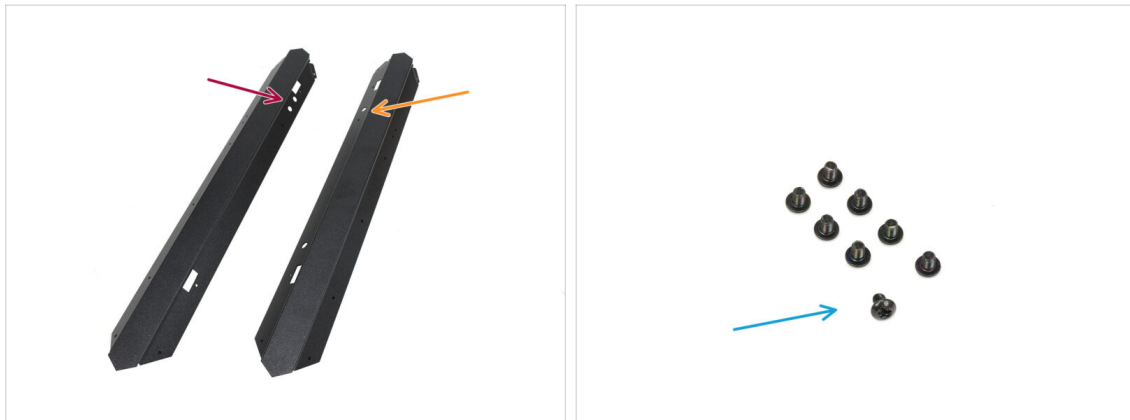
KROK 1 Tools necessary for this chapter



● For the following steps, please prepare:

- 2,5mm inbusový klíč
- 1,5mm inbusový klíč
- T10 Torx klíč
- Čelistové kleště
- Vyštipovací kleště (volitelné)

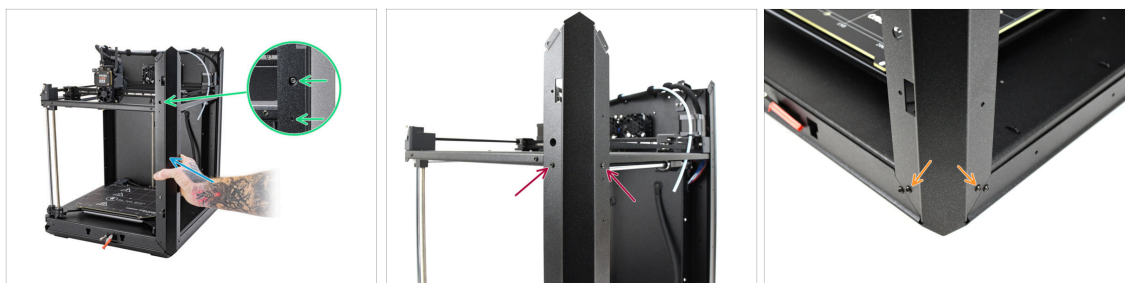
KROK 2 Front profiles: parts preparation



● For the following steps, please prepare:

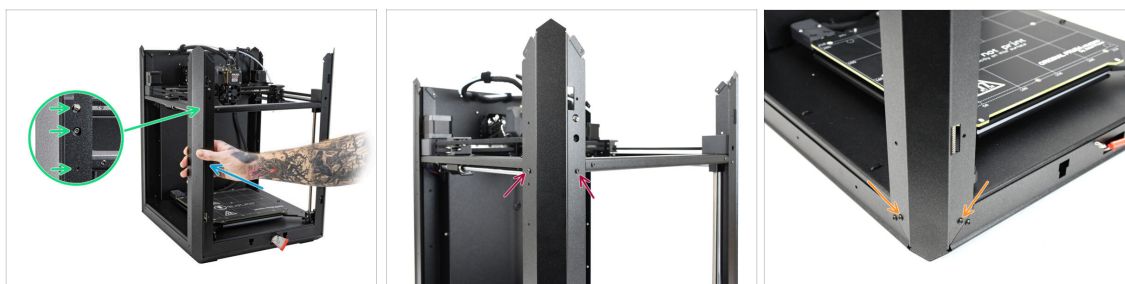
- Front Left Profile (1x) *found in the Metal parts 1/3 package*
 - ① The one with the two circular openings on top.
- Front Right Profile (1x) *found in the Metal parts 1/3 package*
 - ① The one with one circular opening on top.
- Šroub M3x4rT (8x)

KROK 3 Installing the front right profile



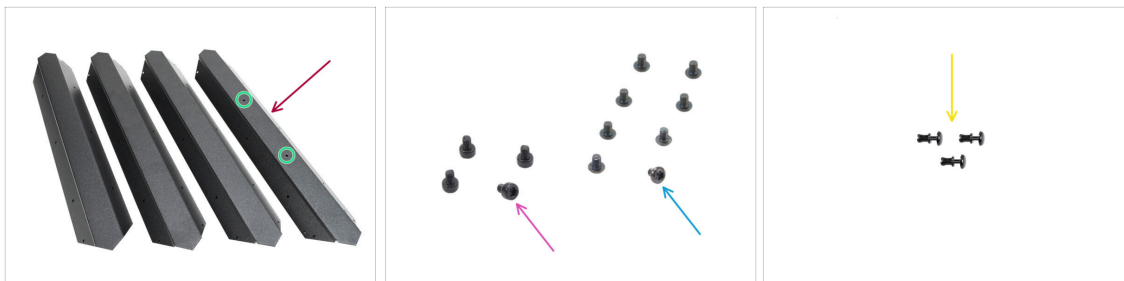
- Attach the Front Right Profile to the printer.
 - ❗ Ensure you are using the correct profile—it should have **one large round opening** for the belt tensioning screw.
- Align the profile so that the calibration screw opening and the smaller bolt opening line up with the thread.
- Secure the profile 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.
 - ❗ Ensure you are using the correct profile—it should have **two large round openings** for the door sensor and the belt tensioning screw.
- 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*
- Note that one of the profiles has two openings in the middle—this one belongs at the back.
- Šroub M3x4rT (8x)
- M3x4 screw (4x) *with the different head type*
- Nylonový nýt (3x)

KROK 6 Assembling the top profiles I.



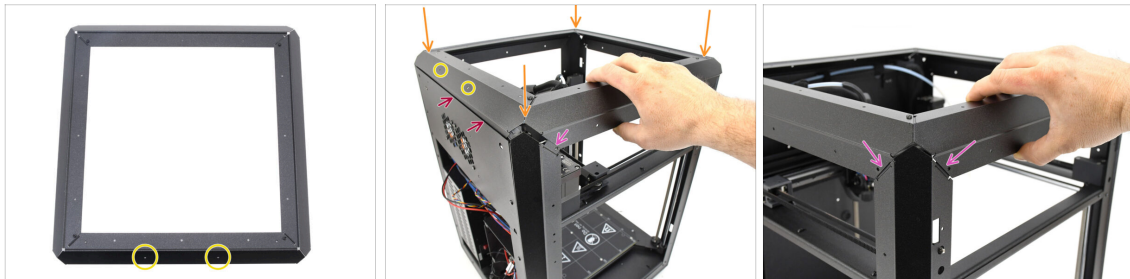
- ⚠ Be very careful when handling sharp sheet metal parts to avoid injury or damage.
- According to the picture, place the top profile with two holes on the flat side.
- Orient the part according to the picture. **Use the flange as a guide.**
- Place any other of the top profiles on the left side. Orient 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.
- ⚠ Ensure the flanges are positioned **underneath** the profiles.
- ✦ 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**.
- ✦ Add the top profile assembly onto the printer, making sure the two openings are facing the back.
- ✦ 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.
- Attach the back panel to the top profile with three nylon rivets.

KROK 10 CoreXY fixing screws: parts preparation



For the following steps, please prepare:

- Šroub 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.
- ◆ Fix the CoreXY assembly using the four M3x4rT screws in the marked openings.

KROK 12 Side sensor base: parts preparation



- ◆ **For the following steps, please prepare:**
- ◆ Filament-sensor-body (1x)
- ◆ Filament-sensor-lever (1x)
- ◆ Filament-sensor-switch (1x)
- ◆ Šroub M3x10 (1x)
- ◆ 10x6x2mm magnet (2x) *found in the Electronics & Fasteners package*
- ◆ 7mm Ferromagnetic Ball (1x) *found in the Electronics & Fasteners package*
- ◆ Podložka M3w (1x)

KROK 13 Assembling the side sensor base



- Insert one of the magnets into the dedicated opening in the Lever.
- Insert the ball into the corresponding opening on the inside of the sensor base.
- 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.

- Připevněte páku na místo pomocí podložky M3w a šroubu M3x10. Zatím ho utáhněte jen o několik otáček - stačí, aby držel na místě.

⚠ Šroub nedotahujte úplně. Jinak se páčka nebude pohybovat a senzor nebude fungovat!

KROK 14 Test páčky



- Verify the lever is able to move freely.
- Pokud se páčka nepohybuje volně nebo se vůbec nepohybuje, povolte šroub o čtvrt otáčky a znovu vyzkoušejte pohyb.

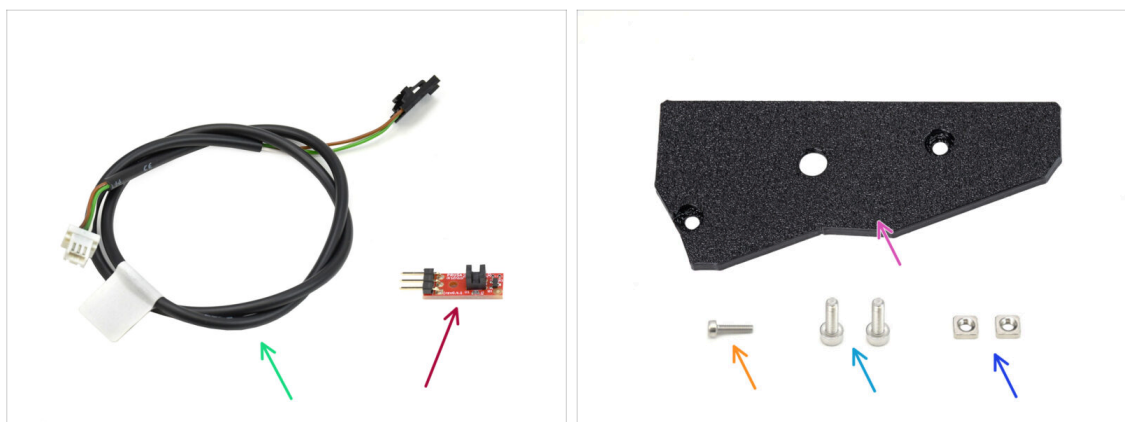
⚠ Šroub nesmí být zcela utažen, jinak se páčka nebude moci volně pohybovat.

KROK 15 Sestavení tlačítka



- 🔵 Vložte druhý magnet o rozměrech 10x6x2 do dílu filament-sensor-switch.
- 🟡 Namontujte díl filament-sensor-switch do filament-sensor-body.
- 🟠 Přesuňte díl filament-sensor-switch do levé koncové polohy tak, aby magnety směřovaly k sobě.
- 🟢 Zkontrolujte, že se **magnety odpuzují** - měly by se odtlačovat od sebe.
- 🔴 **Pokud se přitahují** - tedy posouvají k sobě: vyjměte magnet z přepínače senzoru filamentu a otočte jeho polaritu. Poté vše znovu zkontrolujte.
- 📌 *Pro tip: K odstranění magnetu z dílu filament-sensor-switch použijte jeden z tenkých šestihranných klíčů nebo klíčů Torx.*

KROK 16 IR Sensor: parts preparation



- ⬛ **For the following steps, please prepare:**
- 🟢 Side Filament Sensor Cable (1x) *found in the Electronics & Fasteners package*
- 🔴 IR Filament Sensor (1x) *found in the Electronics & Chamber parts package*
- 🟡 Side Filament Sensor Cover (1x) *found in the Printed package*
- 🟠 Šroub M2x8 (1x)
- 🔵 Šroub M3x10 (2x)
- 🟢 Matka M3nS (2x)

KROK 17 Connecting the IR sensor



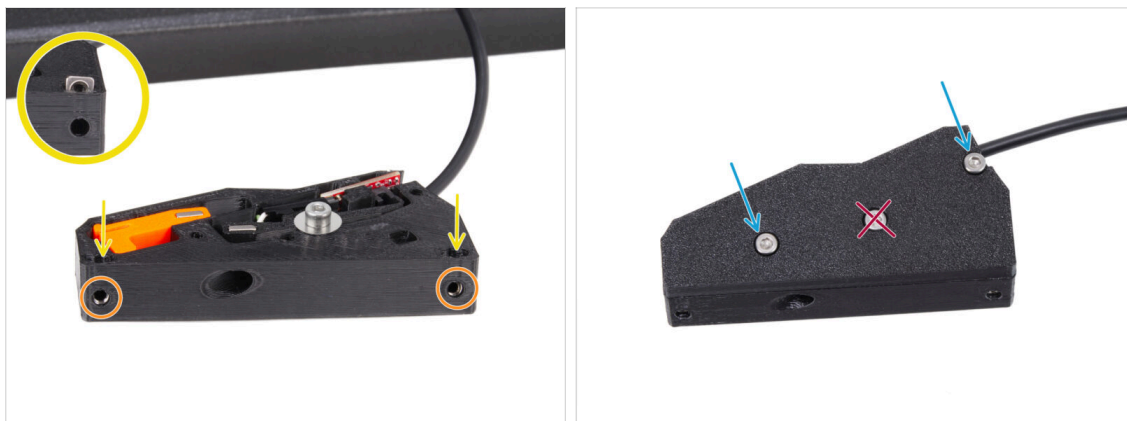
- Plug the cable into the IR filament sensor.
- ⚠ Ensure the connector is oriented correctly before plugging it in!
- On CORE One, the brown cable must connect to the +5V pin.
- The white cable connects to the GND pin.

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.
- Insert the IR sensor itself into the dedicated groove.
- 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**.
- ✚ Look from the side to ensure the threads in the nuts align with the openings.
- ✚ Add the cover part onto the assembly.
- ✚ Fix the cover in place using two M3x8 screws on the sides.

⚠ **Šroub uprostřed nedotahujte! Jinak by senzor přestal fungovat.**

KROK 20 Side filament sensor: parts preparation



- ✚ **For the following steps, please prepare:**
- ✚ Side Filament Sensor Assembly (1x) *you assembled earlier*
- ✚ Collet (1x) *found in the Electronics & Fasteners package*
- ✚ Stahovací páska (3x)

KROK 21 Installing the side filament sensor



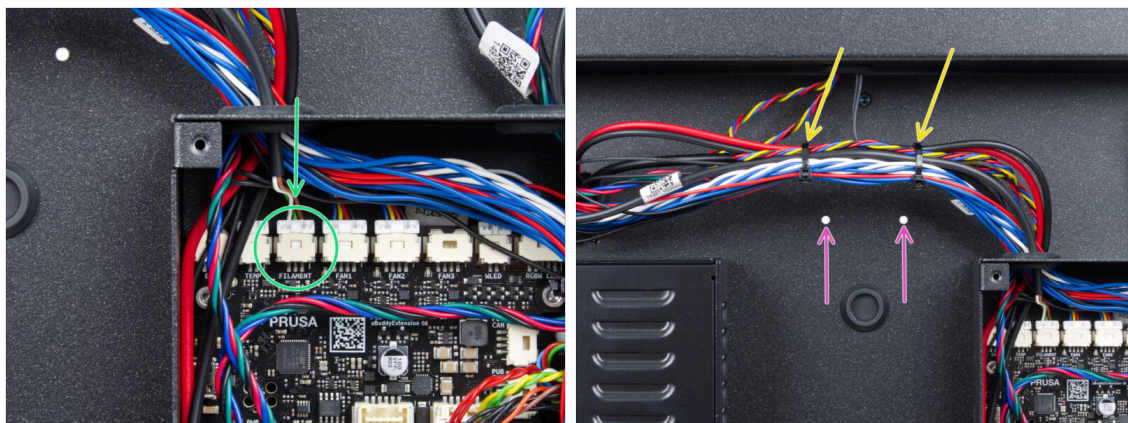
- Install one zip-tie into the marked openings. We will use it to attach a cable underneath the metal profile.
 - Vložte objímku do označeného otvoru na sestavě senzoru.
 - Attach the sensor assembly onto the PTFE tube in the printer.
- ⚠ Make sure to push the tube all the way in!

KROK 22 Guide the filament sensor cable



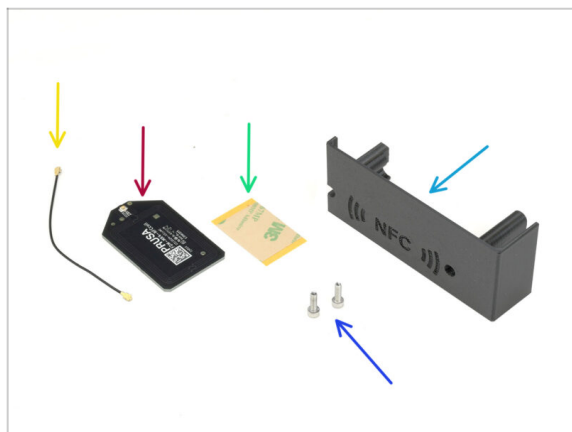
- Move the sensor assembly up, roughly to the middle of the printer's frame, to align the cable properly.
- Once in position, secure the cable underneath the metal profile using a zip-tie. Tighten the zip-tie lightly, allowing for cable adjustments if needed later. Cut off the excess zip-tie.
- Guide the sensor cable through the dedicated opening to the back of the printer.
- Na zadní straně tiskárny vedte kabel do krabičky xBuddy. Zatím ho nechte volně viset.

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 You can use needle-nose pliers to assist you, but be careful not to damage the cables.
- 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



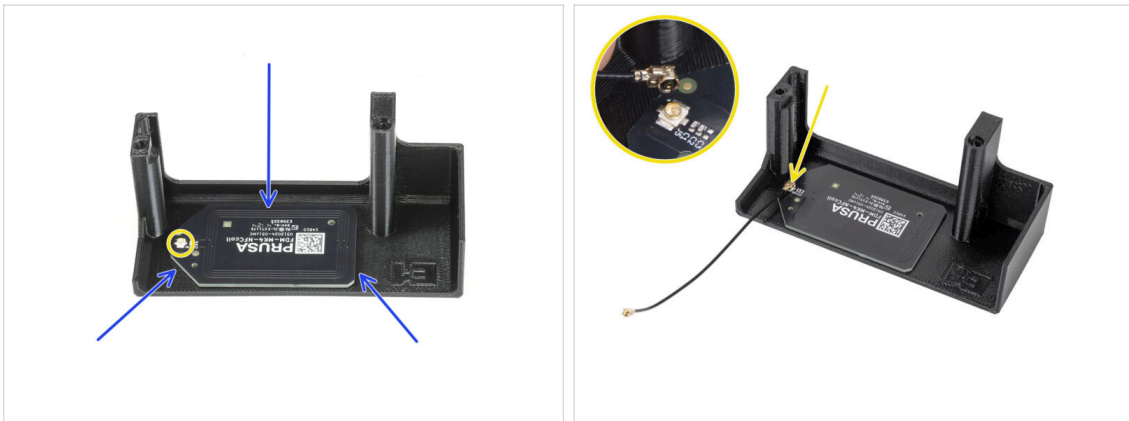
- For the following steps, please prepare:
 - El-box-cover (1x) found in the Printed parts package
 - Šroub M3x10 (2x)
 - NFCcoil (1x) found in the Electronics & Chamber parts package
 - Adhesive film 32 x 25 mm (1x) found in the Electronics & Chamber parts package
 - NFC coil cable (1x) found in the Electronics & Chamber parts package

KROK 25 Applying the adhesive film



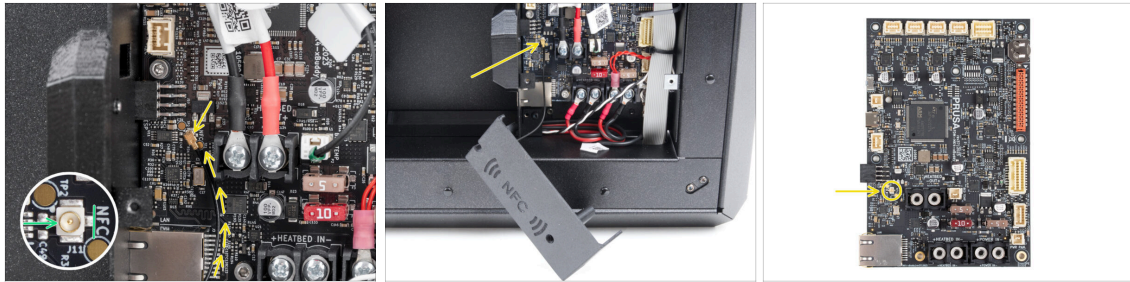
- Peel off the yellow protective film from the adhesive tape.
- Apply the film to the flat side of the NFC coil, ensuring it adheres properly.
- Peel of the remaining protective layer from the NFC coil.

KROK 26 Installing the NFC Coil



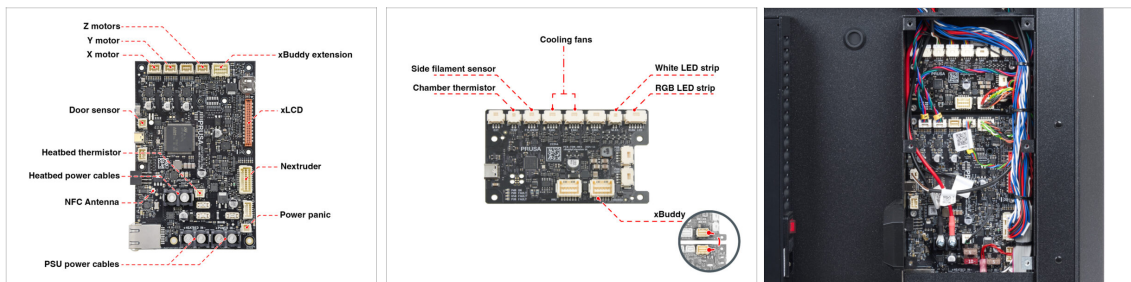
- Stick the NFC coil onto the inner side of the EI-box cover, approximately as shown in the picture.
- ⓘ The small round connector should be positioned closer to the edge of the cover.
- Connect the cable to the board by aligning the connectors and pressing lightly until you feel a click, ensuring a secure connection.
- ⚠ Be careful when connecting the NFC coil cable. Misalignment or excessive pressure can cause irreversible damage.

KROK 27 Connecting the NFC Coil



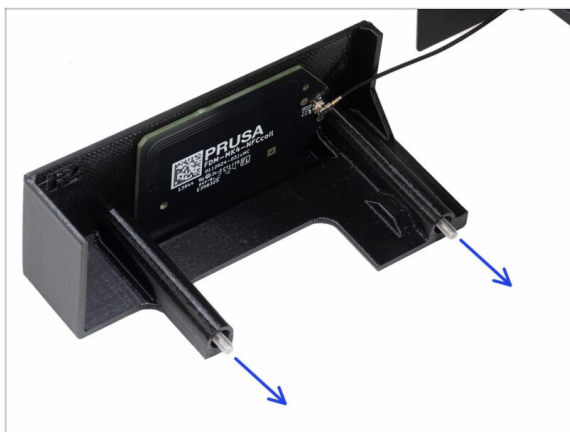
- 🟢 Locate the small round connector labeled NFC on the bottom left side of the xBuddy board.
- 🟡 Connect the NFC coil cable to the board by aligning the connectors and pressing lightly until you feel a click.

KROK 28 Kontrola zapojení



- 🟡 Use the pictures as a reference to verify your electronics connections.
- ⚠️ Make sure that all connectors are fully inserted and PSU cables properly tightened. Otherwise, there is a risk of damage to the printer!

KROK 29 Preparing the electronics cover



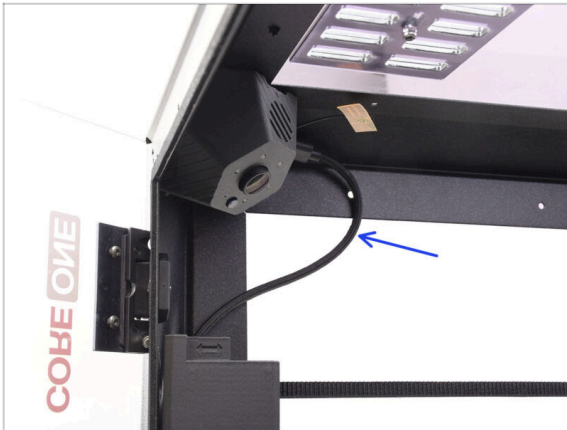
- Push two M3x10 screws through the EI-box-cover.

KROK 30 Installing the electronics cover



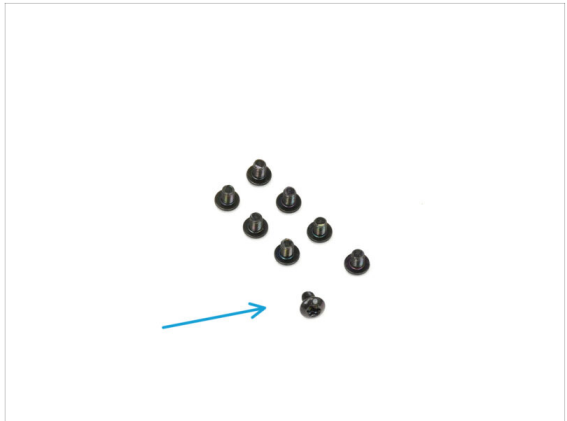
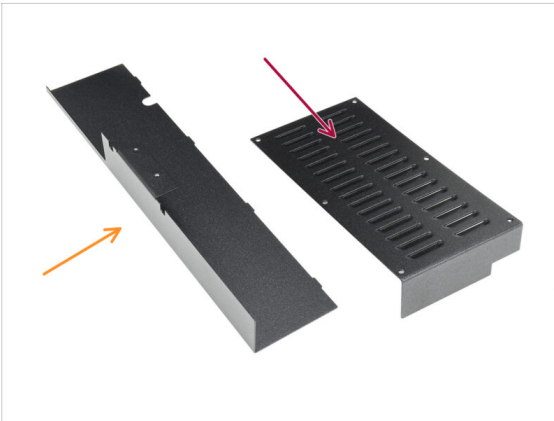
- Ensure the threaded holes on the bottom of the xBuddy box are not obstructed by cables.
- If so, rearrange the cables to allow clear access.
- Align the cover with the opening in the xBuddy box and fix it in place by tightening the screws.
- Route the NFC cable through the space between the Ethernet 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 Poznámka ke kameře Buddy3D



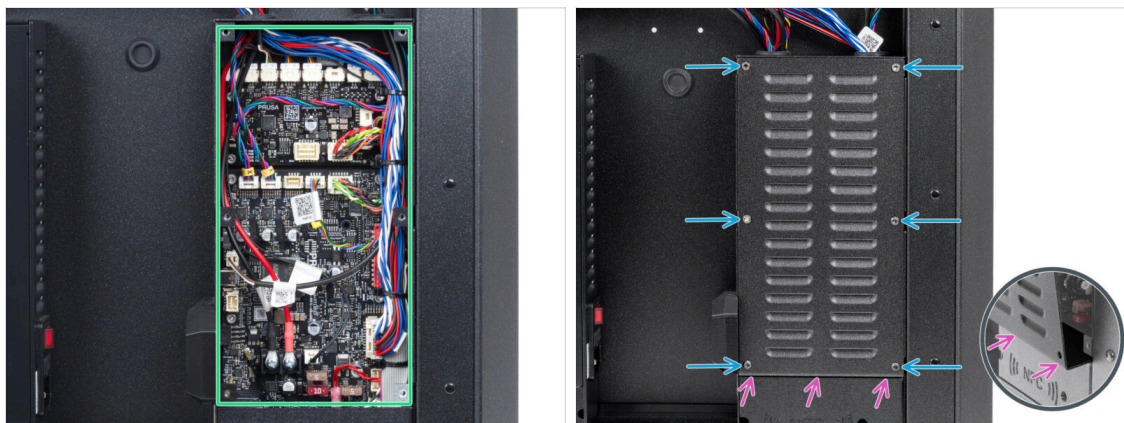
- i** Pro budoucí uživatele kamery Buddy3D:
- Pokud plánujete používat kameru Buddy3D, máte již nainstalovaný kabel USB.
 -  Pro detailní informace o montáži a připojení kamery Buddy3D se vraťte k tomuto návodu: **Instalace kamery Buddy3D pro CORE One**

KROK 32 xBuddy cover: parts preparation



- For the following steps, please prepare:**
- Sheet metal back cover (1x) *found in the Metal parts 2/3 package*
 - xBuddy cover (1x) *found in the Metal parts 3/3 package*
 - Šroub M3x4rT (8x)

KROK 33 Installing the xBuddy cover



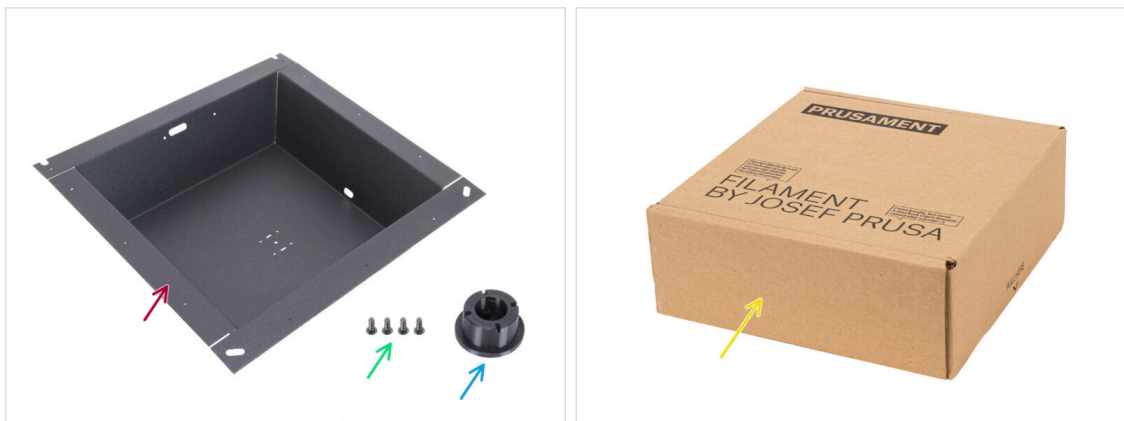
- 🟢 Uspořádejte vedení kabelů v xBuddy boxu podle obrázku.
- 🟡 Carefully cover the xBuddy box by first sliding the bent part of the cover into the box.
- ⚠️ **Avoid pinching the cables. Double-check the NFC coil cable position.**
- 🔵 Secure the xBuddy box cover using the six M3x4rT screws.

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.

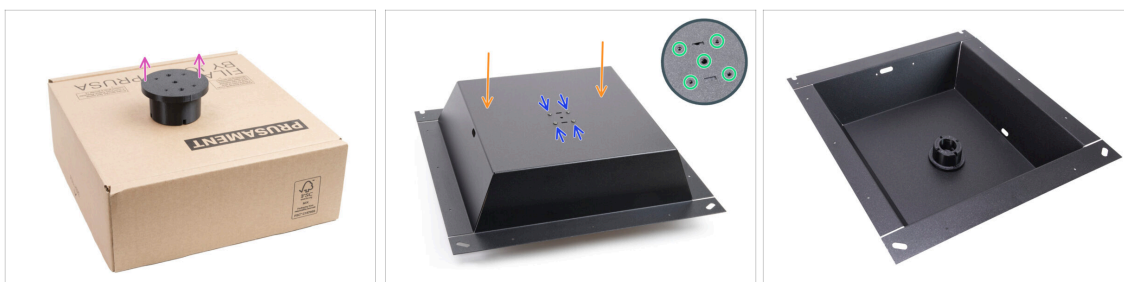
Šrouby M3x8rT (4x) naleznete v balíčku Electronics & Fasteners

Puck-universal (1x)

Jakákoli kartonová krabice (1x)

📌 Tip: Dobře se hodí krabice od Prusamentu.

KROK 36 Installing the spoolholder puck



Umístěte díl Puck-universal na kartonovou krabici tak, aby otvory pro šrouby směřovaly nahoru.

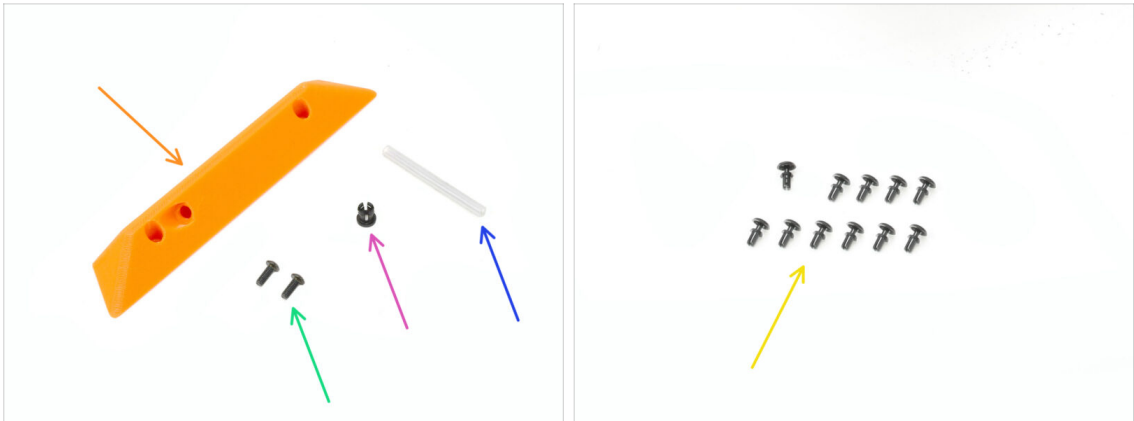
Opatrně umístěte pravý panel na díl Puck-universal, umístěte jej do středu krabice.

Zarovnejte otvory v dílu Puck-universal s otvory v pravém panelu.

Upevněte díl Puck-universal pomocí čtyř šroubů M3x8rT.

ⓘ Při utahování mohou šrouby klást odpor, protože si uvnitř dílu prořezávají vlastní závit.

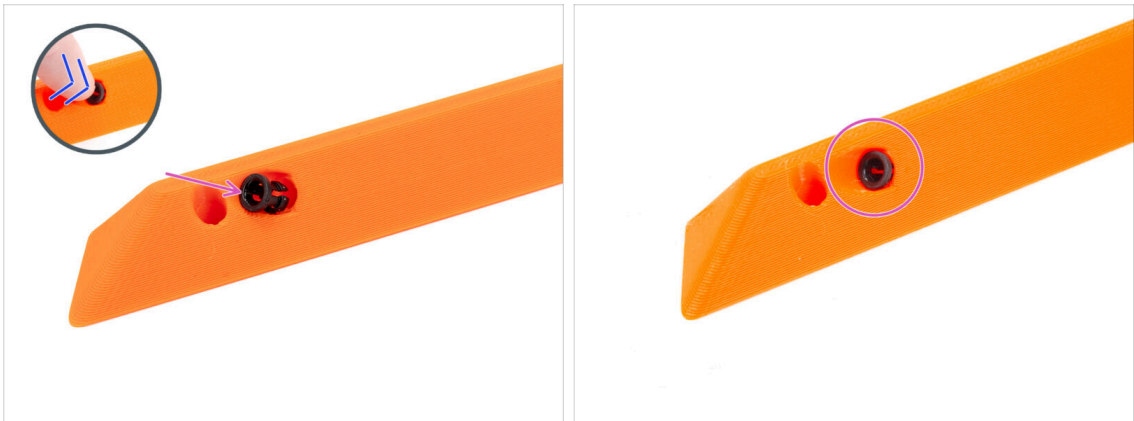
KROK 37 Right handle: parts preparation



For the following steps, prepare:

- Side Handle (1x) *found in the Printed parts package*
- Šroub 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)*
- Nylonový nýt (11x)

KROK 38 Montáž objímky



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

KROK 39 Montáž úchytu



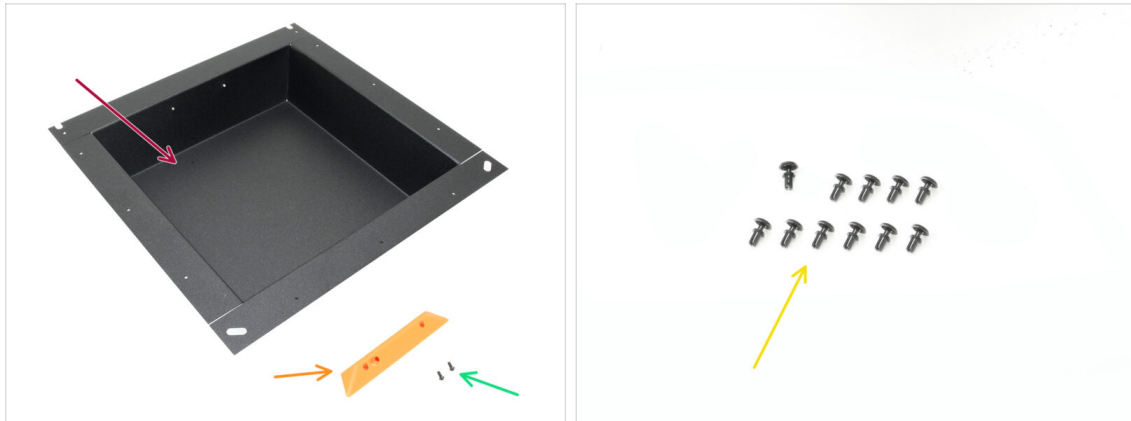
- ✿ Place the right-side metal sheet assembly on the right side of the printer. Ensure the U-shaped cutouts are facing upwards.
- ✿ Attach the right handle to the right metal sheet.
- ✿ Push one M3x8rT screw through the rear hole in the handle and the metal sheet.
- ✿ Attach the side filament sensor 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



- ✿ Using the second M3x8rT screw, secure the right handle and the side filament sensor to the right metal sheet.
- ✿ 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



For the following steps, prepare:

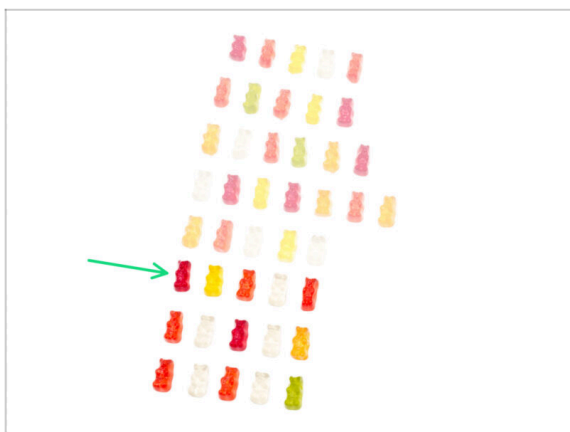
- Left side sheet metal (1x) *found in the Metal parts 2/3 package*
- Side Handle (1x) *found in the Printed parts package*
- Šroub M3x5rT (2x)
- Nylonový nýt (11x)

KROK 42 Installing the left side



- Align the handle with the threaded openings in the sheet metal.
- Attach the handle using the two M3x5rT screws.
- Secure the side sheet metal to the printer using 11 nylon rivets.

KROK 43 Je čas na Haribo!



- Well done—fuel up for the next challenge!
- Eat the sixth row.
- So close! But **hands off those last gummies!**

KROK 44 Hotovo

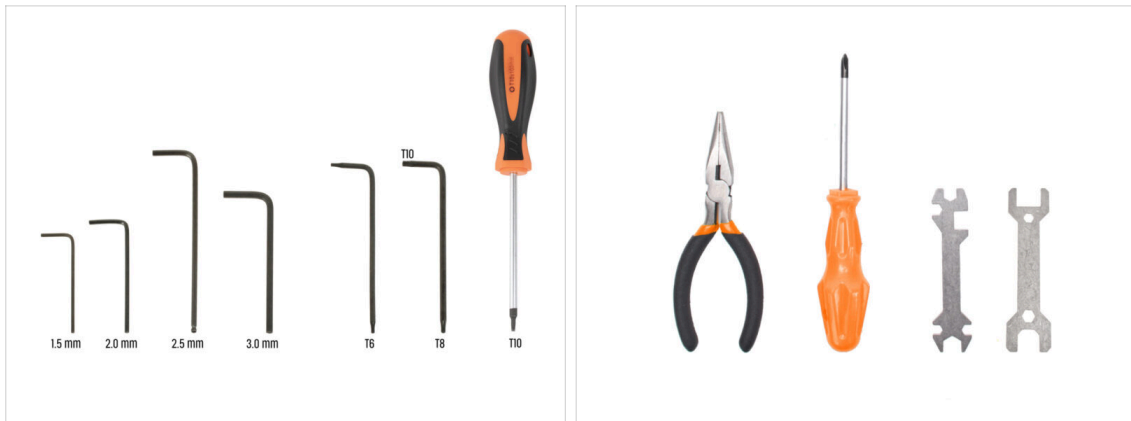


- Congratulations! You've successfully assembled the entire body.
- Let's move to the next chapter.

8. Trim, Door & xLCD



KROK 1 Tools necessary for this chapter



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

- 2,5mm inbusový klíč
- T10 Torx klíč
- Čelistové kleště

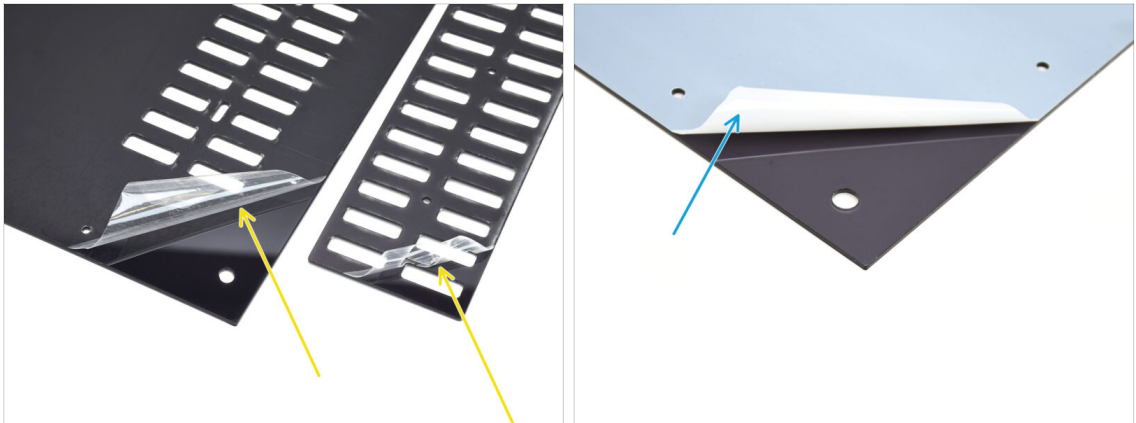
KROK 2 Horní kryt: příprava dílů



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

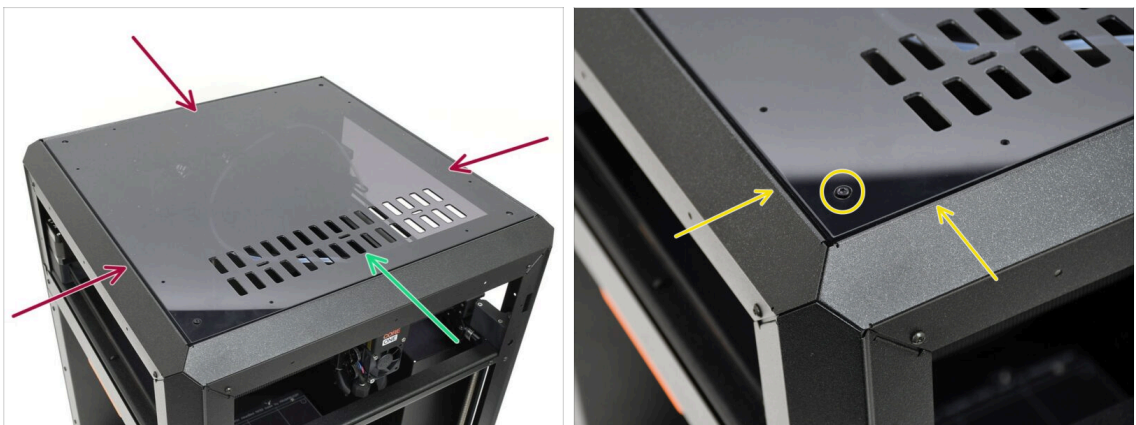
- Top cover (1x) *found in the Plexi set package*
- Vent cover (1x) *found in the Plexi set package*
- Matka M3nN (3x)
- Insulating insert (3x) *found in the Electronics & Fasteners package*
- **i** Tento díl může být buďto šedý nebo černý. Tvar je nicméně identický a proces stavby to nijak neovlivní.
- Šroub M3x12rT (3x)
- Nylonový nýt (4x)
- Upg-vent-block

KROK 3 Odstranění ochranné fólie



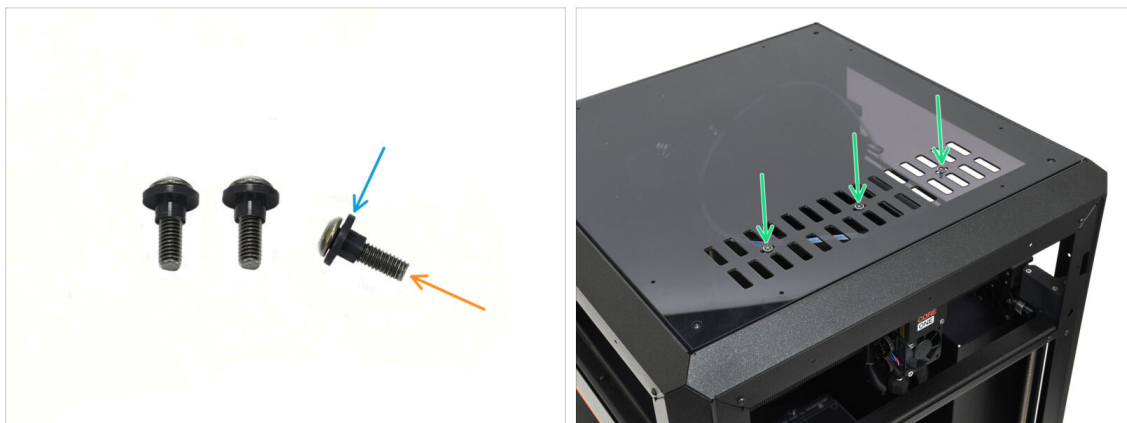
- First, remove the protection foil from both the plastic sheets.
- Flip the parts around and remove the protective foil from the other sides.

KROK 4 Zkušební montáž horního krytu

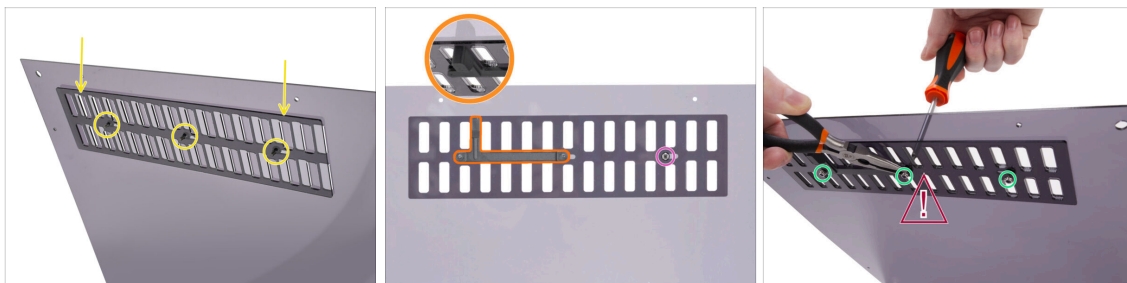


- Lay down the top cover onto the printer.
- The part with the vent openings should be oriented towards the front of the printer.
- If oriented correctly, the cover will align with the recess, and the bolt heads in the corners will fit into the cutouts.
- i** If the bolt openings don't align, flip the cover.

Spoiler alert: The cover isn't symmetrical!

KROK 5 Sestavení horního krytu I.

- 🟠 Run all three M3x12rT 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 Sestavení horního krytu II.

- 🟡 Align the vent cover with the screw ends on the bottom.
- 🟣 Ručně utáhněte matici M3nN zcela vpravo na šroub M3x12rT, abyste kryt upevnili na místě.
- 🟠 Připojte díl Upg-vent-block ke krytu ventilační mřížky. Ujistěte se, že je umístěn správně.
- 🟢 Zajistěte díl Upg-vent-blok na krytu ventilace pomocí matek M3nN. Při utahování šroubů přidržujte matky čelistovými kleštěmi.

⚠️ 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 Testování ventilace



- ◆ 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 Montáž vrchního krytu



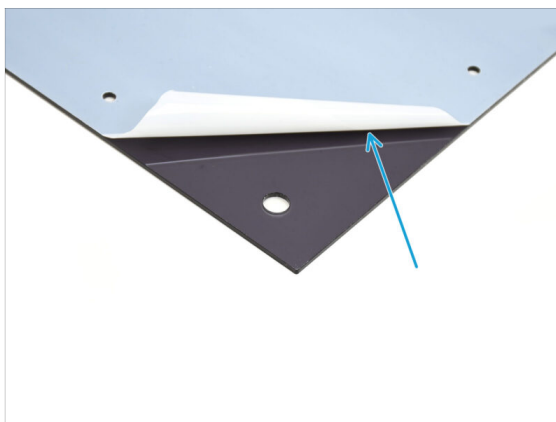
- ◆ Zarovnejte kryt s výřezem v tiskárně a ujistěte se, že větrací otvor směřuje dopředu.
- ◆ Secure the cover to the frame using four nylon rivets in the marked openings.
- ⓘ There are eight openings, but four rivets should be sufficient.

KROK 9 Boční kryty: příprava dílů



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

KROK 10 Odstranění ochranné fólie



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

KROK 11 Zakrytí levé strany



- ✎ 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 Zakrytí pravé strany



- ✎ Zarovnejte druhý kryt s prohlubní na pravé straně tiskárny.
- ✎ Secure the cover to the frame using five nylon rivets in the marked openings.

KROK 13 xLCD: Příprava dílů



- Pro následující kroky si prosím připravte:
- 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
- Šroub 3x8sT (4x)
- Faston connector (1x) found in the Electronics package

KROK 14 Sestavení xLCD I.



- Doporučujeme položit přední kryt lícem dolů na okraj lepenkové krabice nebo stolu, aby vznikl prostor pro ovladačí tlačítko.
- Remove the protective foil from the xLCD.
- Insert the xLCD into the front cover.

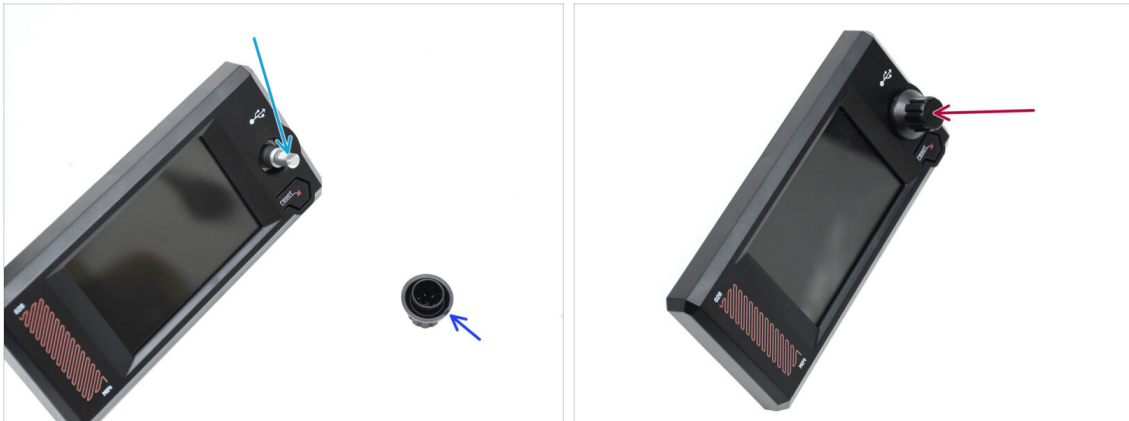
KROK 15 Sestavení xLCD II.

- Zakryjte sestavu pomocí zadního dílu.
 - Pokud máte starší verzi tištěného zadního krytu, je nutné díl nejprve zachytit na roh xLCD. Novější verzi můžete jednoduše nasadit přímo.
 - Fix the parts together using **JUST THREE** 3x8sT screws in the marked openings.
 - ⚠ Nevkládejte šroub do čtvrtého otvoru vedle dlouhého otvoru pro konektor xLCD, který je viditelný přes výřez. Nechte jej prozatím prázdný.

KROK 16 Installing the FE Faston connector

- Přejdeme ke čtvrtému šroubovacímu otvoru - zde připevníme uzemňovací konektor Faston.
 - 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



- Na hřídeli enkodéru je plochá část. Otočte enkodér tak, aby plochá část směřovala nahoru.
- 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



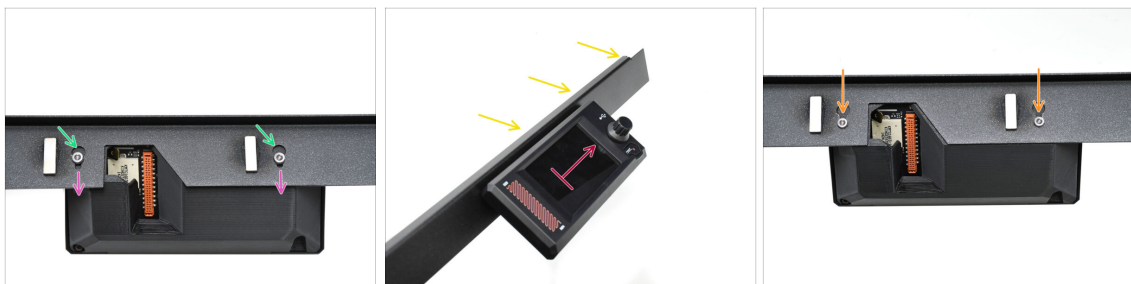
- **Pro následující kroky si prosím připravte:**
- xLCD (1x) *found in the Electronics package*
- Matka M3nS (2x)
- Šroub M3x6 (2x)
- Bezel (1x) *found in the Metal parts 2/3 package*

KROK 19 Mounting the xLCD I.



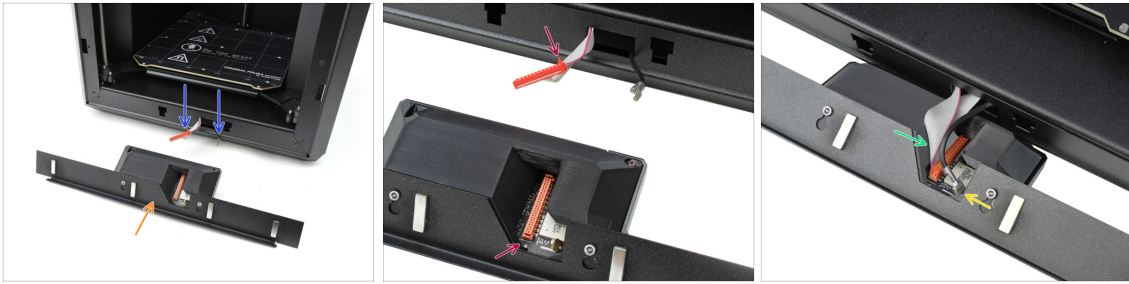
- 🔵 Vložte dvě matky M3nS do příslušných otvorů na zadní straně sestavy xLCD.
- 🔵 Push the nuts all the way in until the threads line up with the screw openings.
- 🔴 Attach two M3x6 screws into the openings. Do not screw them all the way in.
- 🟢 Leave a gap under the screw heads.

KROK 20 Mounting the xLCD II.



- ⬛ Připojte sestavu xLCD k rámečku.
- 🟢 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



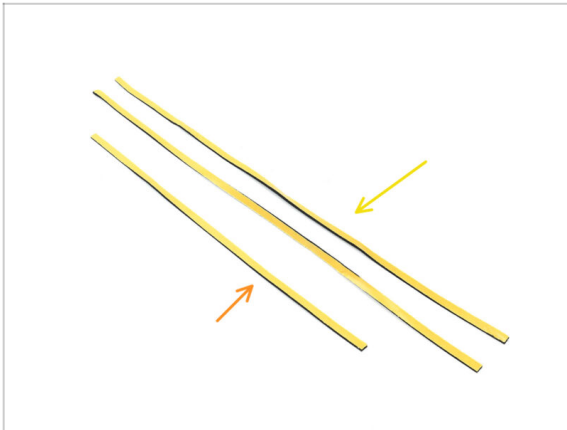
- ✦ Umístěte sestavu xLCD před tiskárnu, jak je znázorněno na obrázku.
- ✦ Pull the appropriate cables out from the front of the printer to make connecting them easier.
- ✦ There is a small red tab on the main connector. This tab must be oriented towards the triangle symbol on the PCB.
- ✦ Connect the main connector into the xLCD.
- ✦ Connect the grounding faston connector.

KROK 22 Securing the xLCD assembly



- ✦ Jemně zvedněte sestavu xLCD do horní polohy.
- ⚠ **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



- Pro následující kroky si prosím připravte:
- 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
- ⓘ The color of the protective layer may vary.

KROK 24 Attaching the top seal



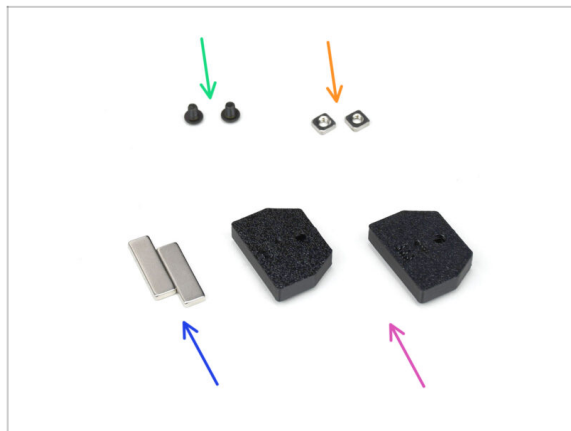
- Vezměte **KRATŠÍ** těsnění.
- Peel off the start of the protective foil. No need to remove it entirely yet.
- ⓘ No need to remove it entirely yet. For easier installation, you can peel it off gradually as you go.
- Start applying the seal along the top edge of the printer's frame.
- Begin offset from 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



- 🟡 Přiložte delší těsnění dveří, začněte od konce těsnění nahoře.
- 🟢 Work your way from the top down.
- 📖 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



- ⬛ Pro následující kroky si prosím připravte:
- 🟢 Šroub M3x5rT (2x)
- 🟠 Matka M3nS (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



- 🟡 Vložte matice M3nS do příslušných otvorů v držácích magnetů.
- 🔴 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



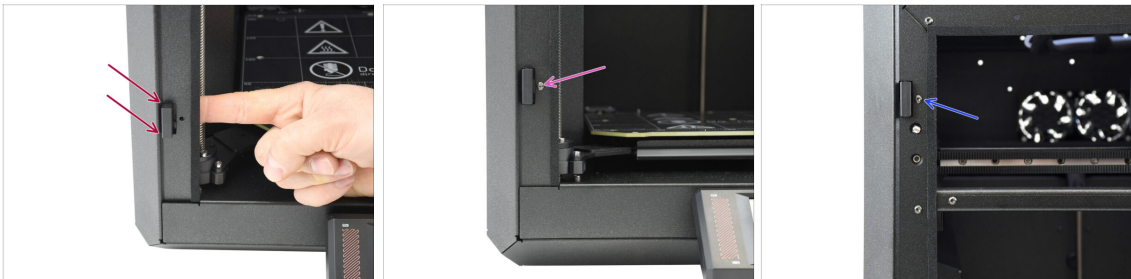
- 🟡 Zevnitř tiskárny vložte sestavu držáku magnetu do příslušného spodního otvoru v kovovém profilu na pravé straně.
- ⚠️ Ensure the protruding rectangular pocket fits into the cutout.
- 🟢 Secure the assembly in place using the M3x5rT screw.
- 🟢 Using the same technique, install the other magnet holder into the top opening on the right side.

KROK 29 Panty dvířek: příprava dílů



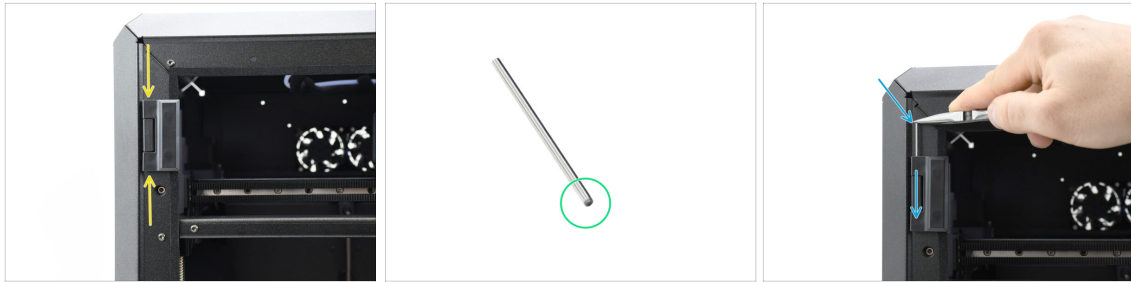
- Pro následující kroky si prosím připravte:
- Door-hinge-in (2x) found in the CoreXY + Hinges set package
- Door-hinge-out (2x) found in the CoreXY + Hinges set package
- Hinge Pin 2 x 40 mm (2x) found in the Electronics & Fasteners package
- Šroub M3x5rT (2x)

KROK 30 Installing the door-hinge-in parts



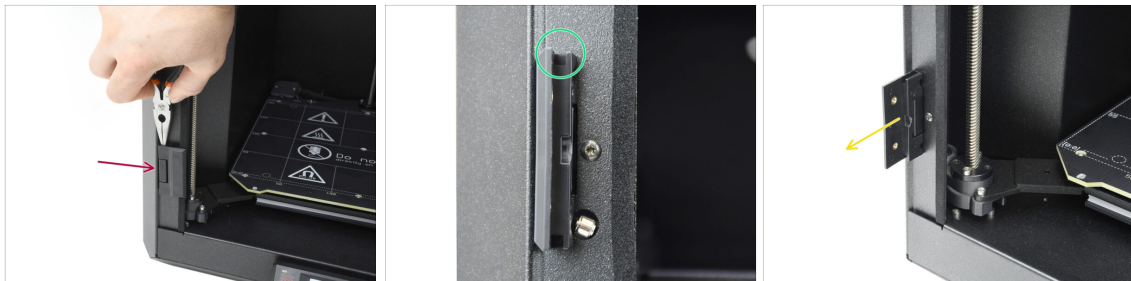
- Zevnitř tiskárny zasuněte díl door-hinge-in do spodního obdélníkového otvoru v levém bočním profilu. Vyčnívající část by měla procházet dopředu.
- Fix the door-hinge-in in place using the M3x5rT screw.
- Using the same technique, install the other door-hinge-in into the opening on top.

KROK 31 Installing the door-hinge-out I.



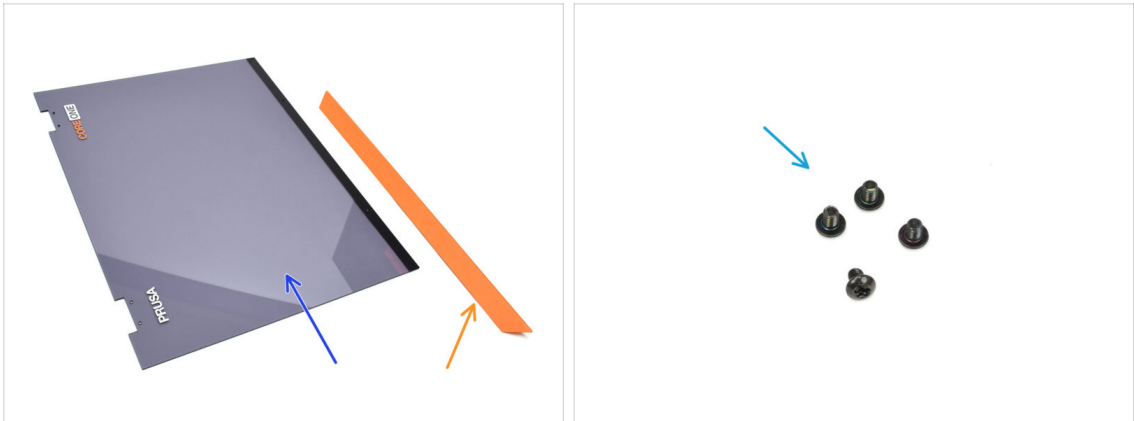
- ✦ Zarovnejte díl door-hinge-out s dílem door-hinge-in.
- ✦ The chamfered end of the hinge pin should be inserted first to make assembly easier.
- ✦ Insert the pin from the top of the door-hinge-out, guiding it through the door-hinge-in until it is fully inserted.
- ❗ Use the tip of needle-nose pliers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

KROK 32 Installing the door-hinge-out II.



- ✦ Stejným postupem namontujte spodní door-hinge-out a dokončete tak montáž závěsu.
 - ✦ 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



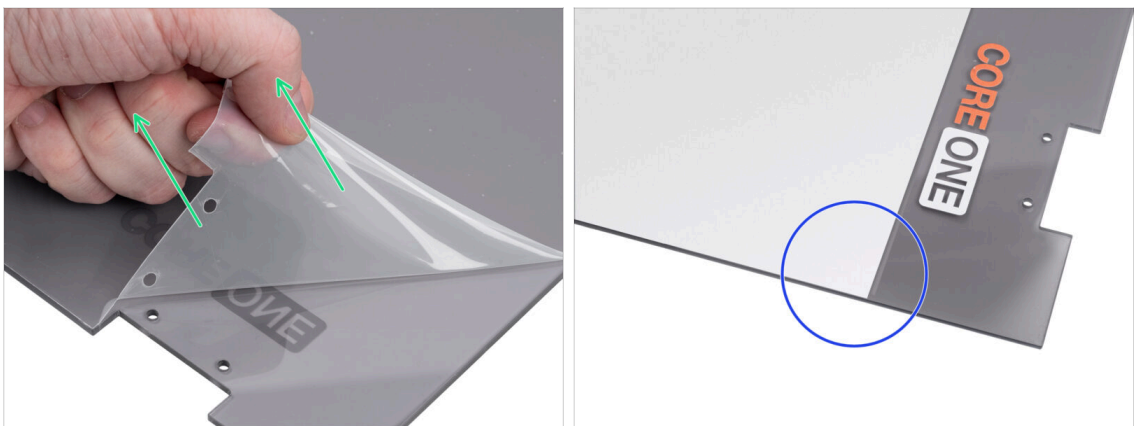
● **For the following steps, prepare:**

- Door (1x) found in the Plexi set package

❗ Dvířka jsou předem označena jako **CORE ONE**. Nebojte se, **je to tak správně!** Samolepku upgradu na + nalepíte v posledním kroku.

- Door handle (1x) found in the Metal parts 2/3 package
- Šroub M3x5rT (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.

❗ 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.

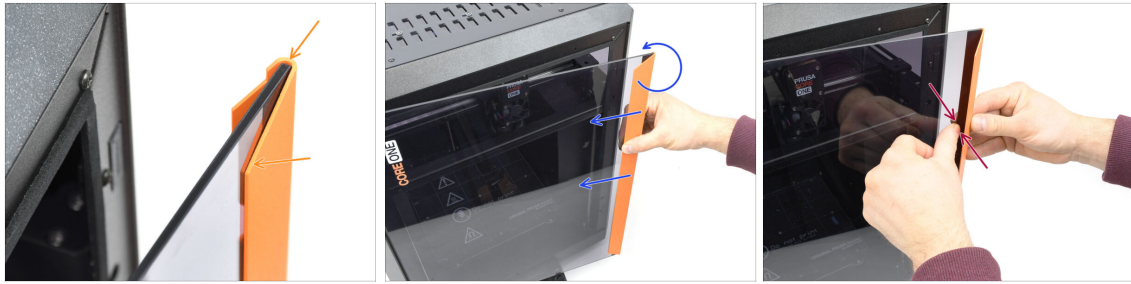
KROK 36 Assembling the door handle



- 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 Nalepení samolepky: příprava dílů



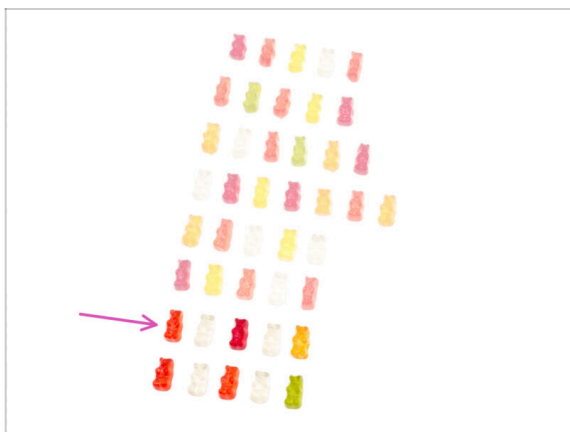
- ✦ Pro následující krok si připravte:
 - ✦ Samolepka CORE One+ na plexisklo dvířek
 - ⓘ Samolepka CORE One+ na plexisklo dvířek se nachází v krabici CORE One+ Upgrade

KROK 39 Přilepení samolepky



- ◆ Sloupněte samolepku z modrého podkladu.
- ◆ Zarovnejte samolepku s nápisem **ONE** a jemně, ovšem pevně ji přitlačte.
- ◆ Opatrně odlepte průhlednou vrstvu a ujistěte se, že + drží na místě.

KROK 40 Je čas na Haribo!



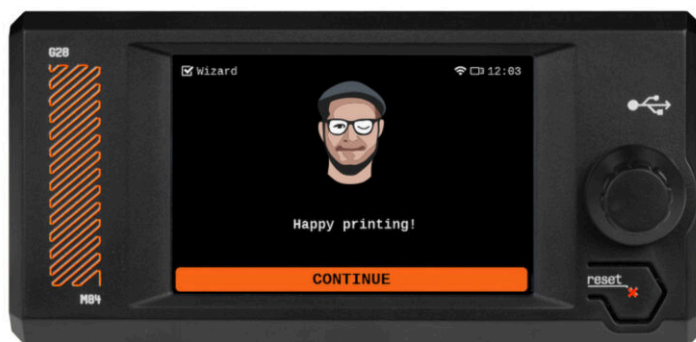
- ◆ Hard work deserves sweet results!
- ◆ Eat the seventh row.
- ⚠ But don't eat the rest yet.

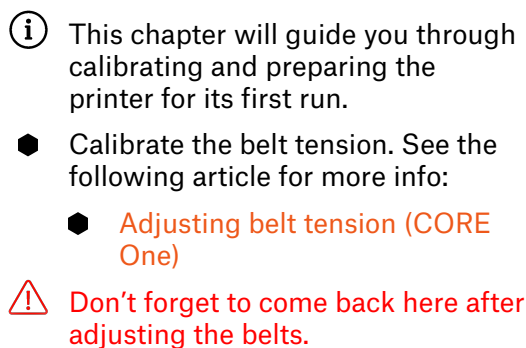
KROK 41 Hotovo



- Gratulujeme! Úspěšně jste sestavili vaši tiskárnu Prusa CORE One+.
- Let's move to the final chapter.

9. Calibration & First run





- Pro další krok si připravte:
 - O-kroužek
 - Spoolhoder-static
- Držák cívky filamentu a O-kroužek jsou v jednom pytlíku.

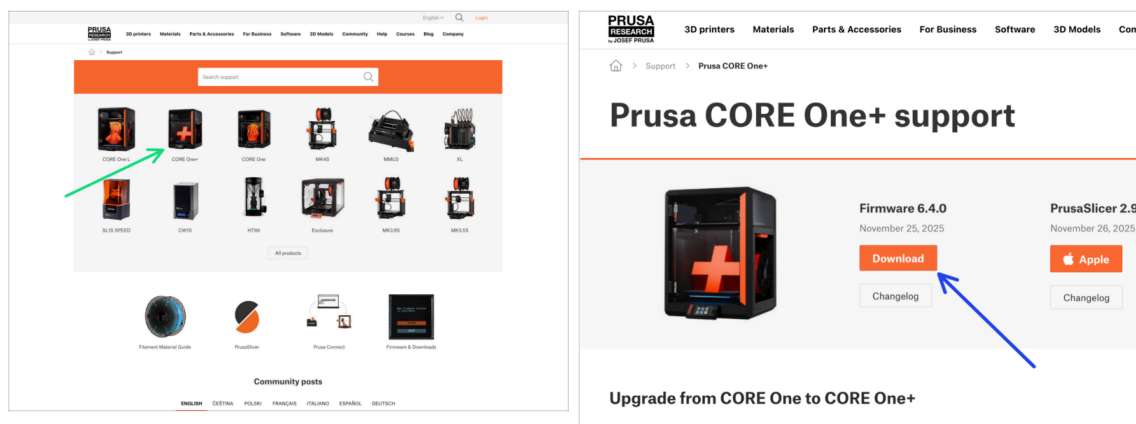
KROK 3 Umístění tiskového plátu a držáku cívky filamentu



⚠ Ujistěte se, že na heatbedu nic není. Podložka musí být čistá. Jakékoli nečistoty mohou poškodit povrch heatbedu i tiskového plátu.

- **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.
 - Nejčastějším důvodem odlepení výtisku od podložky je mastná nebo jinak špinavá ocelová tisková podložka. **Použijte IPA (Isopropylalkohol) pro její odmaštění**, pokud jste byt jen dotkli jejího povrchu.
- Umístěte O-kroužek na držák cívky filamentu (Spoolholder-static).
- Zatlačte držák cívky filamentu do dílu Puck-universal dock a uzamkněte jej otočením po směru hodinových ručiček.

KROK 4 Stažení firmwaru



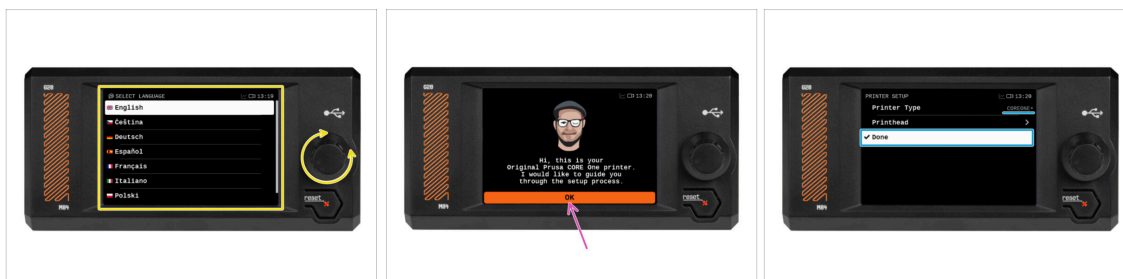
- We will have to upgrade the firmware.
- i Tiskárna CORE One+ vyžaduje verzi firmwaru **6.4.0 nebo novější**.
- Navštivte stránku **CORE One+ v našem centru nápovědy a podpory** help.prusa3d.com.
- Download the latest firmware file (.bbf). Save the file onto a USB drive.

KROK 5 Zapnutí tiskárny



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

KROK 6 Setting up the printer: Intro



- ✿ The printer displays on the screen a prompt to select your language. Use the control knob or touchscreen to set your preference.
- ✿ After selecting your language, the printer will display the welcome screen. Hit **OK** to continue through the setup process.
- ✿ The next screen will prompt you to select your printer model COREONE. Hit **Done** to continue.

KROK 7 Setting up the printer: Network setup



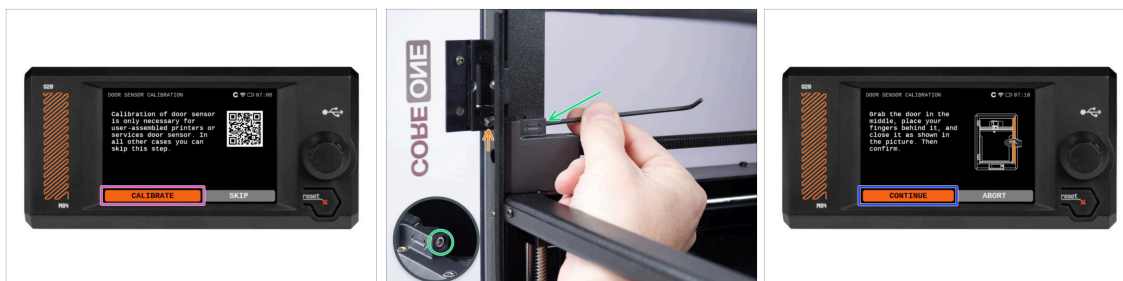
- The Network Setup screen will ask you to connect to a Wi-Fi network using our official Prusa mobile app.
- ① Read more on prusa.io/app.
- If you select **No**, the printer will show alternative ways to connect to Wi-Fi. This step is optional and can be done later.
- ① You can skip this screen and set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

KROK 8 Průvodce: Úvod



- 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 Wizard: Door Sensor Calibration



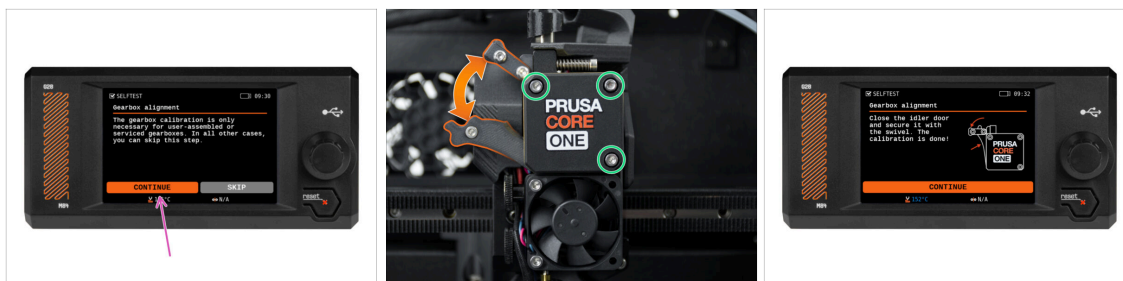
- ✿ The first part that requires your interaction is the door sensor calibration. To begin, hit **Calibrate** and follow the on-screen instructions.
- ✿ You'll be prompted to gradually tighten the sensor tension screw from its default loose position - usually in half-turn steps, possibly several times 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 Průvodce - Test Load cell senzoru



- ✿ 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 Průvodce: zarovnání převodovky



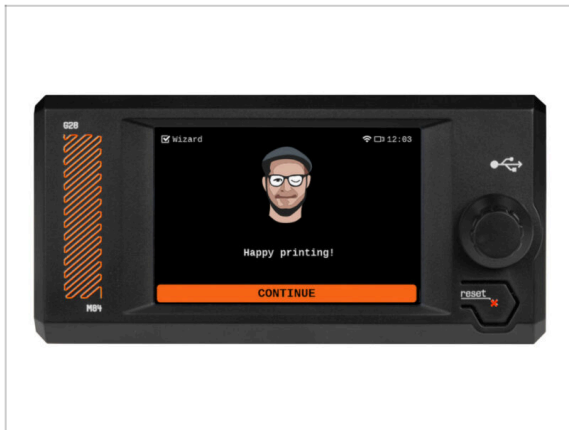
- ✿ Once you get to the Gearbox Alignment part, select **Continue** and follow the on-screen instructions.
- ✿ Make sure the idler lock (swivel) is unlocked from the idler door.
- ✿ Loosen the three screws on the front of the gearbox by 1.5 turns.
- ❗ The printer will go through the automatic gearbox 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 Wizard: Filament Sensor Calibration



- ✿ Zkontrolujte ruční spínač na senzoru filamentu. **Ujistěte se, že je v poloze ON (zapnutý).**
- ✿ Pro kalibraci senzoru filamentu je nutné použít krátký kousek filamentu. Připravte si ho a následně zvolte **Pokračovat**.
- ❗ There should be no filament inside the extruder before the calibration process starts.
- ✿ Place a spool of filament onto the spool holder on the right side of the printer.
- ✿ When prompted, begin inserting the filament into the PTFE tube located beneath the right handle.
- ⬛ Remove the filament after the calibration finishes.

KROK 13 Průvodce dokončen



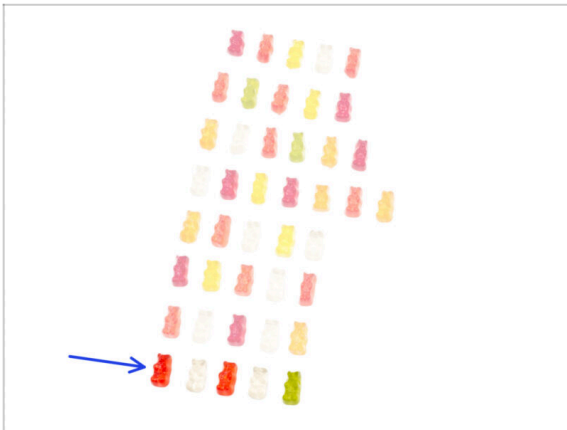
- ◆ Congratulations! The Wizard is complete. Now it's time to test some prints.

KROK 14 Setting the printer up



- ◆ Pokud chcete povolit automatické otevírání horní mřížky, přejděte do ***Nastavení -> Hardware -> Ovládání ventilace komory*** a nastavte možnost **Auto**.

KROK 15 Je čas na Haribo!



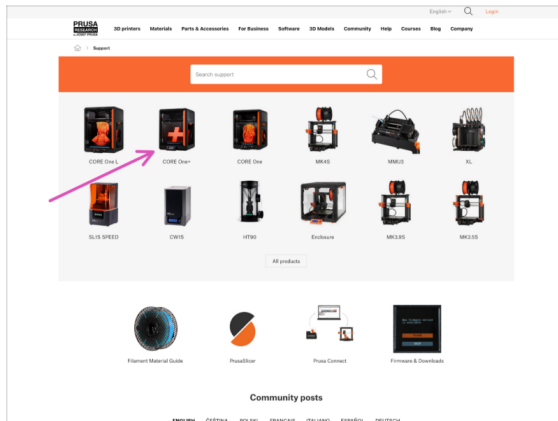
- 🛡️ Victory tastes like gummy bears!
- 🔵 Enjoy the rest. You've earned this.

KROK 16 Příručka 3D tiskaře



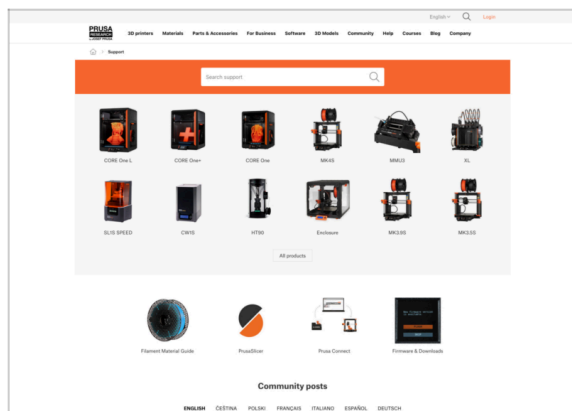
- 🛡️ Read the **3D Printing Handbook** dedicated to your printer and follow the instructions to set up the printer and prepare it for your first print.
- 📌 The latest version is always available at help.prusa3d.com.
- ⚠️ **Read the Disclaimer and Safety instructions chapters.**

KROK 17 Aktualizace firmwaru



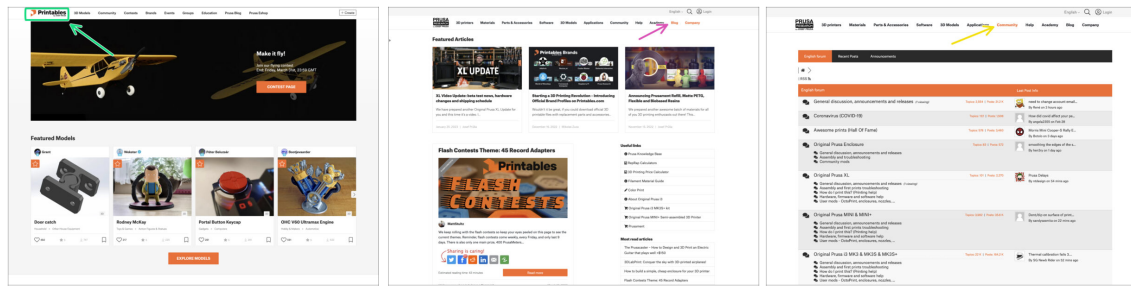
- ❗ Všechny tiskárny jsou dodávány s USB diskem obsahujícím nejnovější firmware. Doporučujeme však každých několik týdnů zkontrolovat a případně aktualizovat verzi firmwaru.
- 🛒 Visit the help.prusa3d.com page.
- 🌸 Přejděte na stránku Prusa CORE One+.
- 🛒 Save the firmware file (*.bbf*) onto the *bundled USB drive*.
- 🔵 Připojte USB disk k tiskárně. Poté, co se zobrazí výzva, vyberte na displeji možnost FLASH.

KROK 18 Centrum Nápořvědy



- 📌 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 Přidejte se na 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.

Manual changelog



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 its entire width, 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, typical of notebook or composition paper. There are no margins, text, or other markings present.

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