

1. Introduction

A few tips for making the assembly easier.

Written By: Dozuki System



Step 1 — All the required tools are included



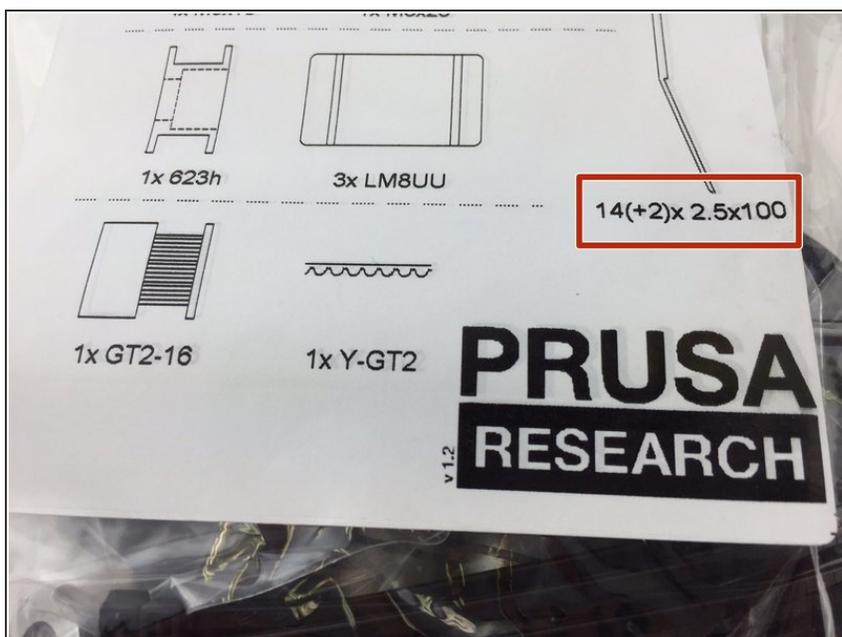
- ⓘ No soldering is required.
- ⓘ No wire crimping is required.

Step 2 — Use labels for reference



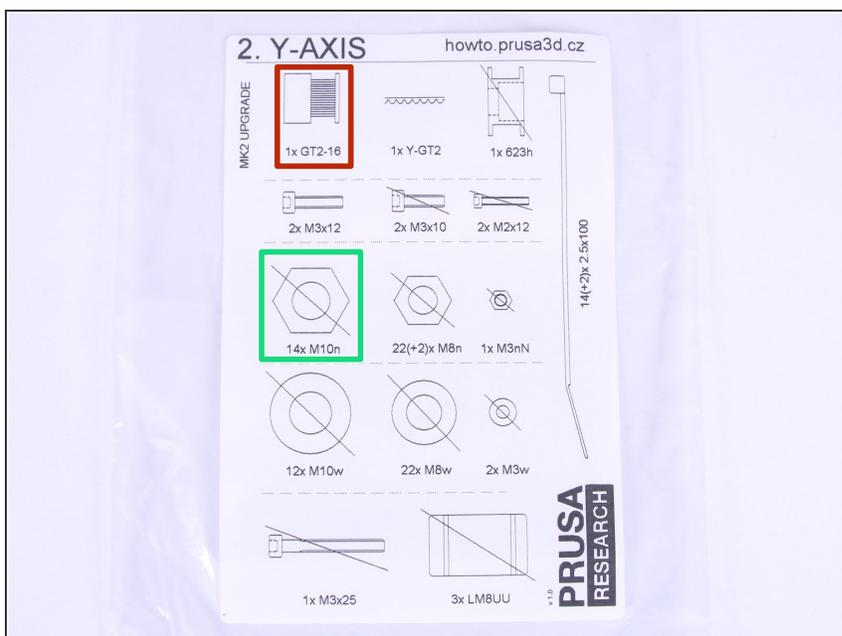
- ⓘ Most of the labels are scaled 1:1 and can be used to identify the part :-)

Step 3 — Critical parts are spare back-uped



- Critical parts, like zipties, have a spare for back-up.
- No need to worry if you mess up cable management or something, you have a spare ziptie ready.

Step 4 — Labels guide



- You have almost the same bags as new builders have!
- You don't need to extract M3 nuts or reuse washers.
- Parts shown uncrossed are in the package.
- Parts shown as crossed are going to be used from your old printer.

Step 5 — View high resolution images



- i** When you browse the guide on <http://manual.prusa3d.com>, you can view the original images in high resolution for clarity.
- Just hover your cursor over the image and click the "View Original" button.
 - You can start by disassembling your printer in the next chapter - [1. Printer disassembly](#)



2. Printer disassembly

Written By: Josef Prusa

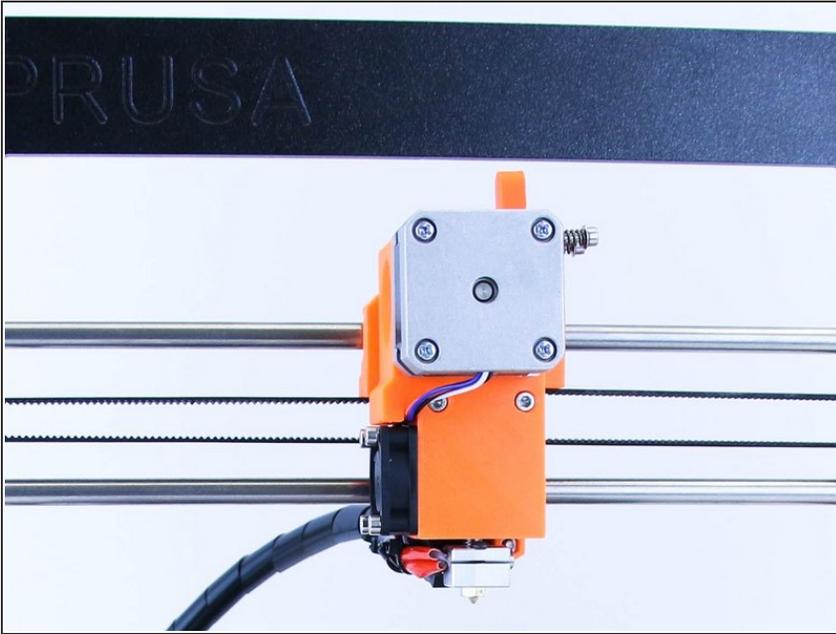


Step 3 — Disassembling LCD



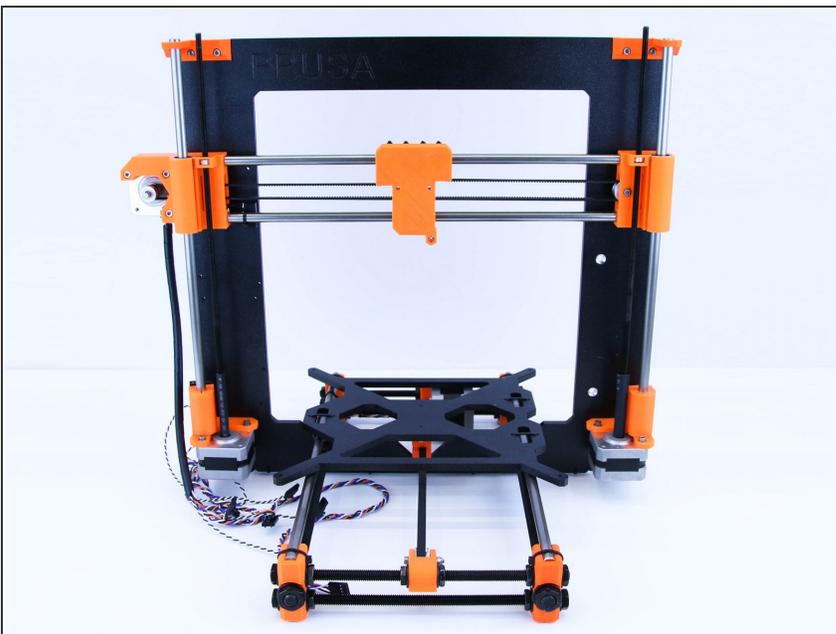
- Using the supplied tools, disconnect the LCD cables and disassemble the LCD cover.
- ★ The only things you'll need for future assembly are the LCD panel and LCD cables.
- ⚠ Be **EXTREMELY** careful while cutting zipties holding the cables. **DO NOT** damage the cables.
- ★ If you have troubles with disassembling, you can simply follow [6. LCD](#) from Assembly Instructions for Original Prusa i3 MK1 backwards.

Step 4 — Disassembling Extruder



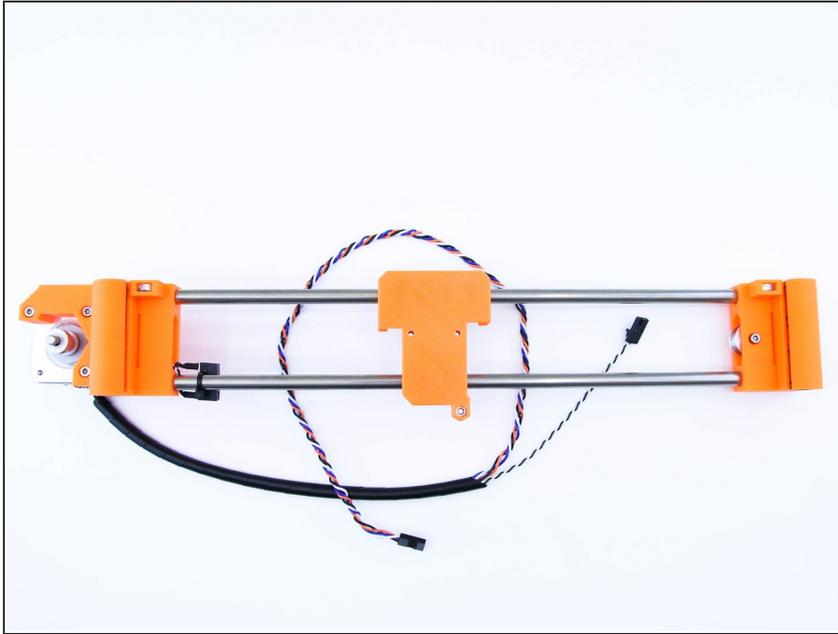
- Using the supplied tools, disassemble the Extruder.
- ★ The only things you'll need for future assembly are the 5015 print fan, spiral wrap, M5w washers, 625 bearing, printed shaft for bearing, springs and screws.
- ⓘ There is no need for taking out the M3 nuts from traps, you'll get new ones.
- ★ If you have troubles with disassembling, you can simply follow [5. Extruder](#) from Assembly Instructions for Original Prusa i3 MK1 backwards.

Step 5 — Disassembling Z axis



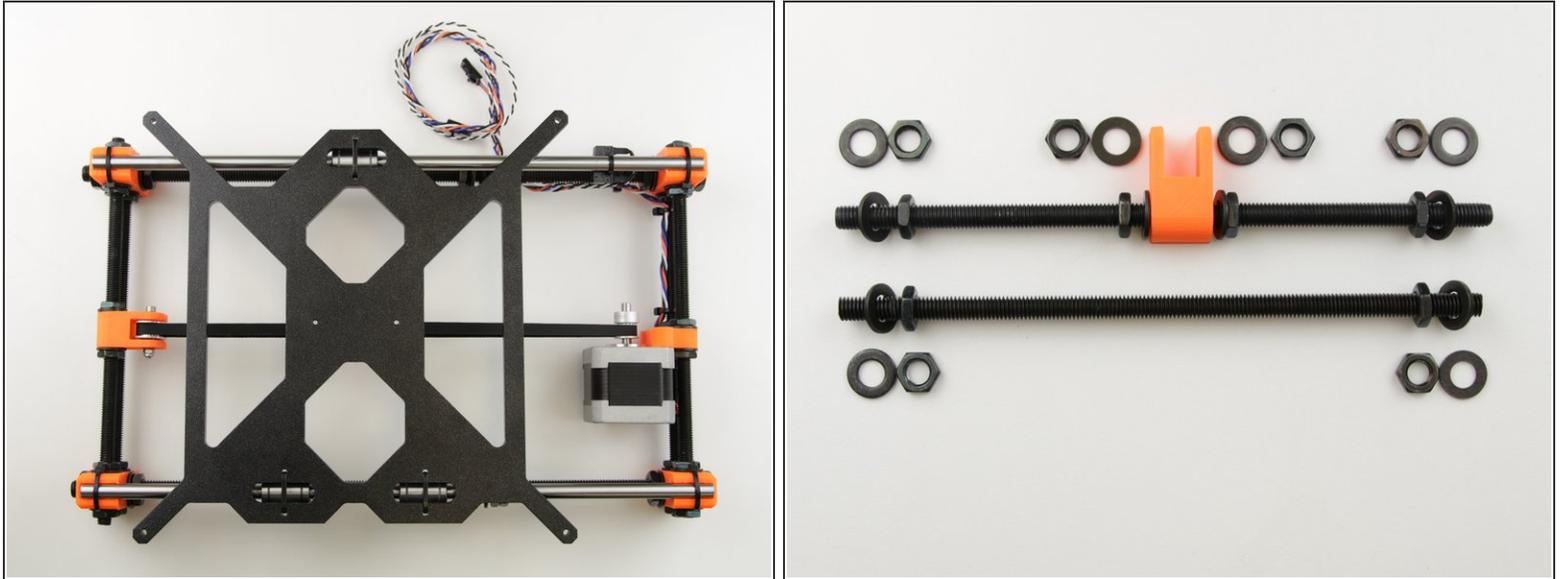
- Using the supplied tools, disassemble the Z axis.
- ★ The only things you'll need for future assembly are the smooth rods and screws.
- ★ If you have troubles with disassembling, you can simply follow [4. Z axis](#) from Assembly Instructions for Original Prusa i3 MK1 backwards.

Step 6 — Disassembling X axis



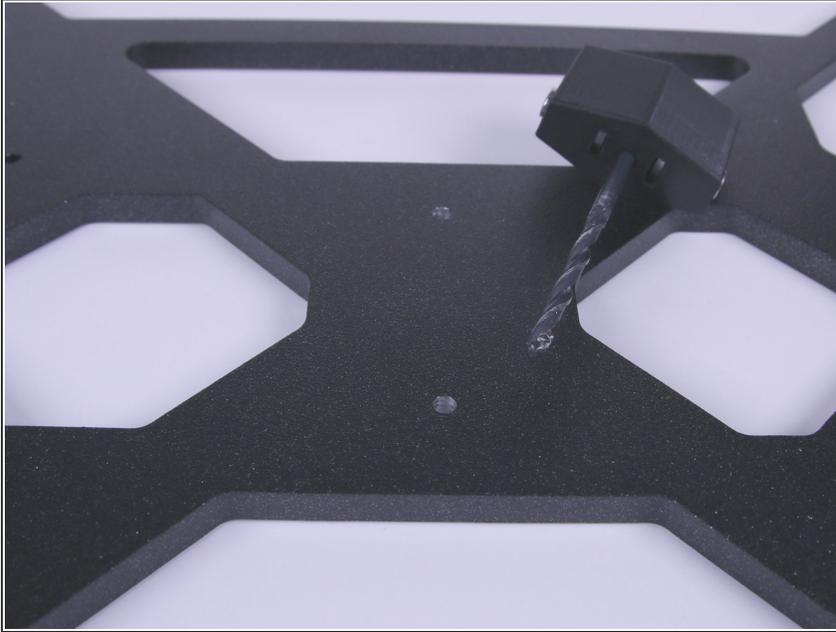
- Using the supplied tools, disassemble the X axis.
- ★ The only things you'll need for future assembly are the smooth rods, linear bearings, 623h bearing with housing, spiral wrap and screws.
- ⓘ There is no need for taking out the M3 nuts from traps, you'll get new ones.
- ★ If you have troubles with disassembling, you can simply follow [3. X axis](#) from Assembly Instructions for Original Prusa i3 MK1 backwards.
- ⓘ While extracting linear bearings, you may damage the X-ends parts, don't worry, you won't need them.
- For extracting linear bearings from parts, you can insert flathead screwdriver between them and slide them out as shown in the second picture.

Step 7 — Disassembling Y axis



- Using the supplied tools, disassemble the Y axis.
- ☞ The only things you'll need for future assembly are the smooth rods, linear bearings, threaded rods, Y-idler assembly (shown in the second picture), Y-carriage and screws.
- ☞ If you have troubles with disassembling, you can simply follow [2. Y axis](#) from Assembly Instructions for Original Prusa i3 MK1 backwards while skipping Step 6.

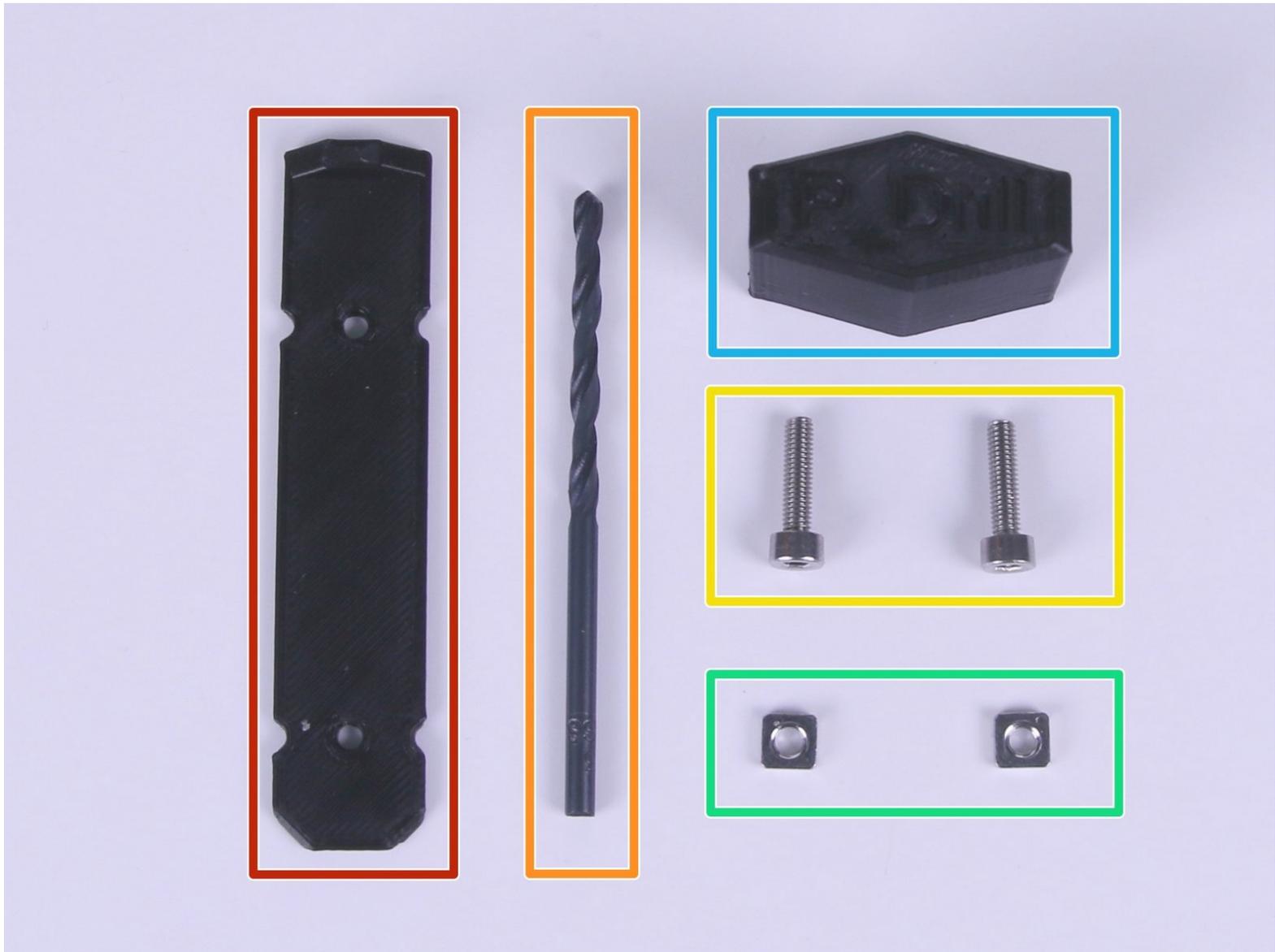
Step 8 — All good!



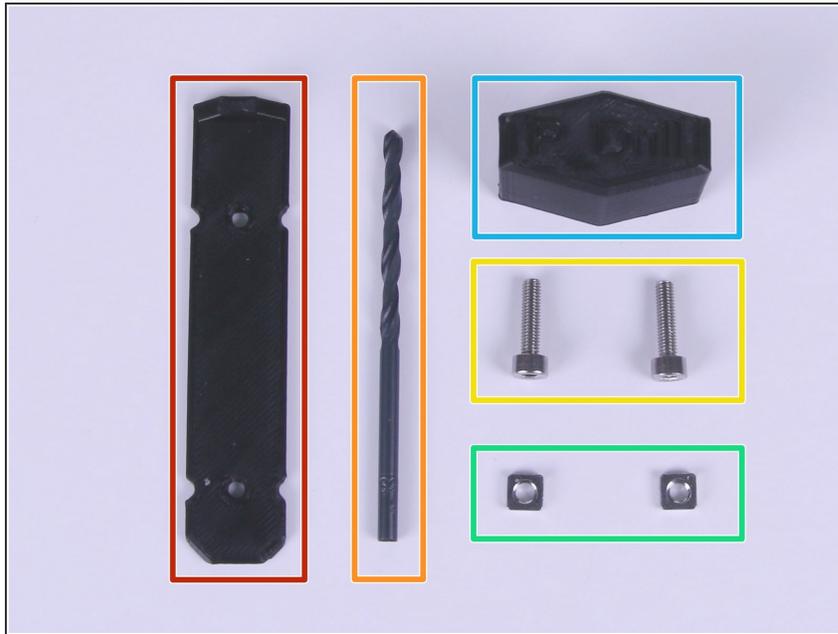
- Now you should have several types of screws in a bowl, smooth and threaded rods, spiral wraps and the frame, plus other things like motors.
- Now you are ready to prepare Y-carriage and then you can start assembling the new printer.
- Continue with the next chapter [1. Y-carriage drilling](#).

3. Y-carriage drilling

Written By: Josef Prusa

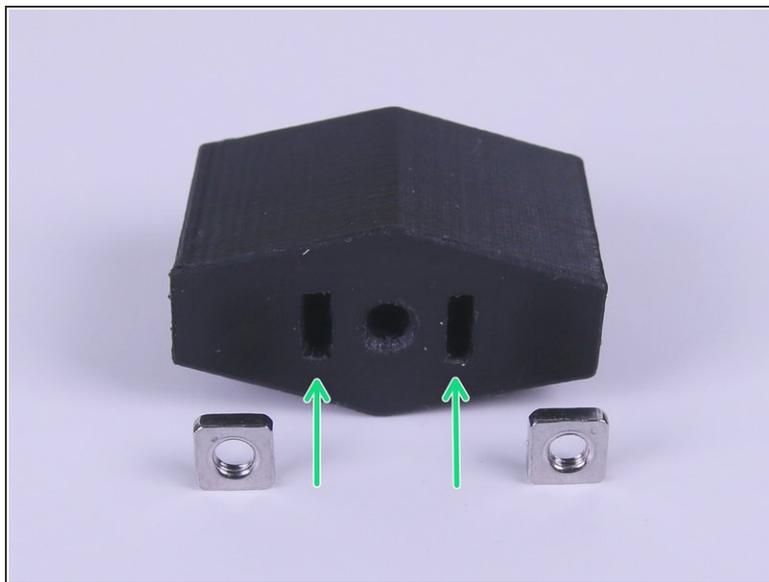


Step 1 — Assembling P-drill



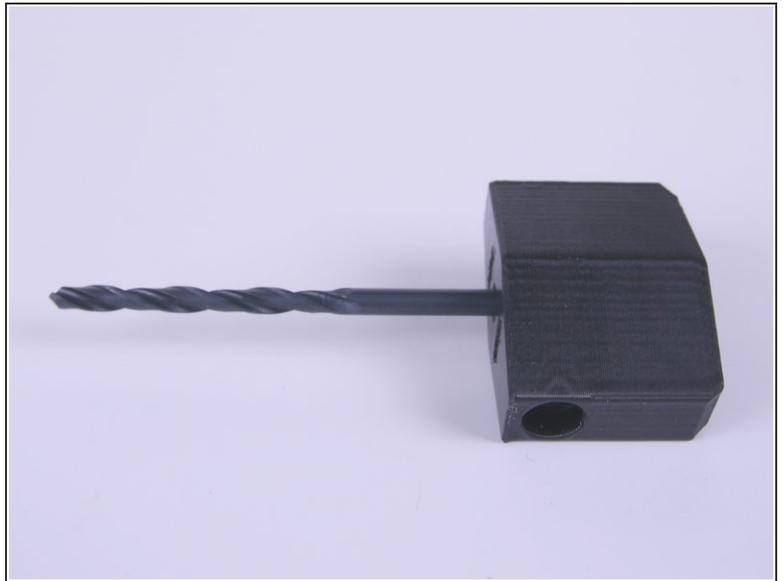
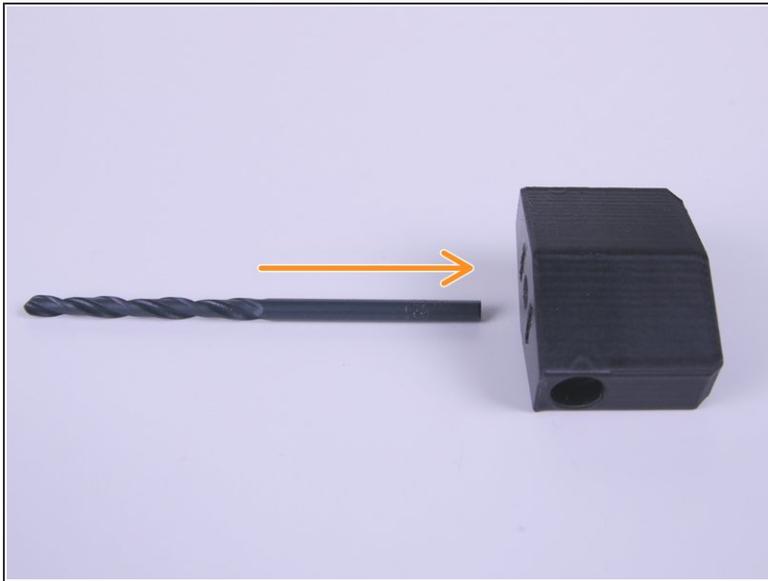
- Y-identifier
- 3.1 mm drill bit
- P-drill
- M3x12 screws
- M3nS square nuts

Step 2



- Insert M3nS square nuts into the nut traps in the P-drill printed part.

Step 3

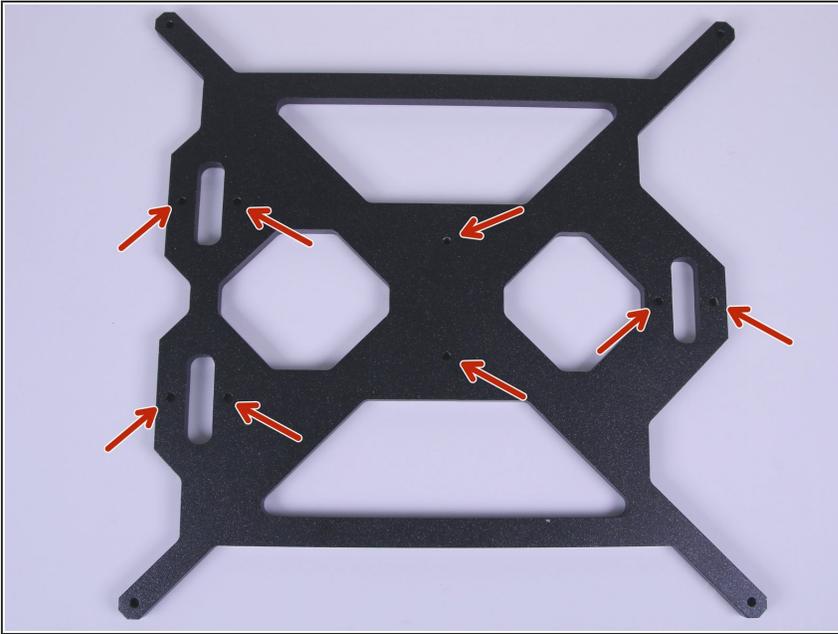


- Insert the 3.1 mm drill bit all the way into the P-drill printed part.

Step 4

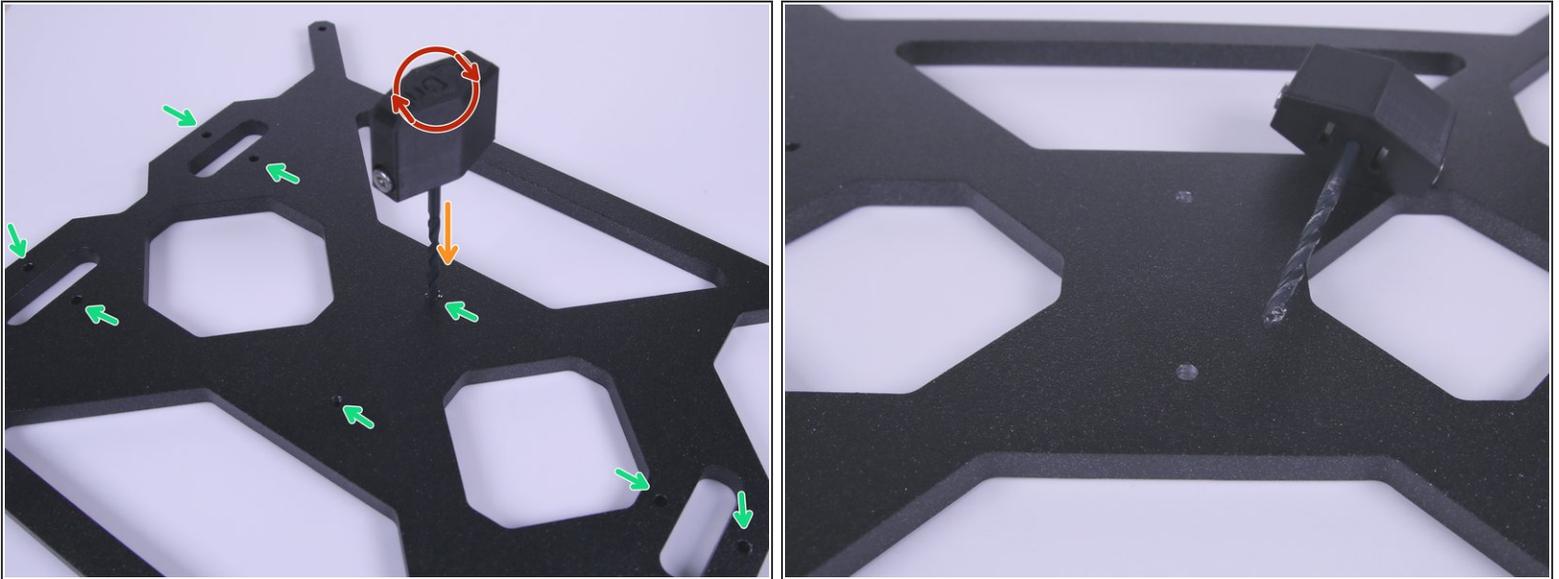


- Insert M3x12 screws into the P-drill printed part.
- Tighten the screws as much as possible.

Step 5

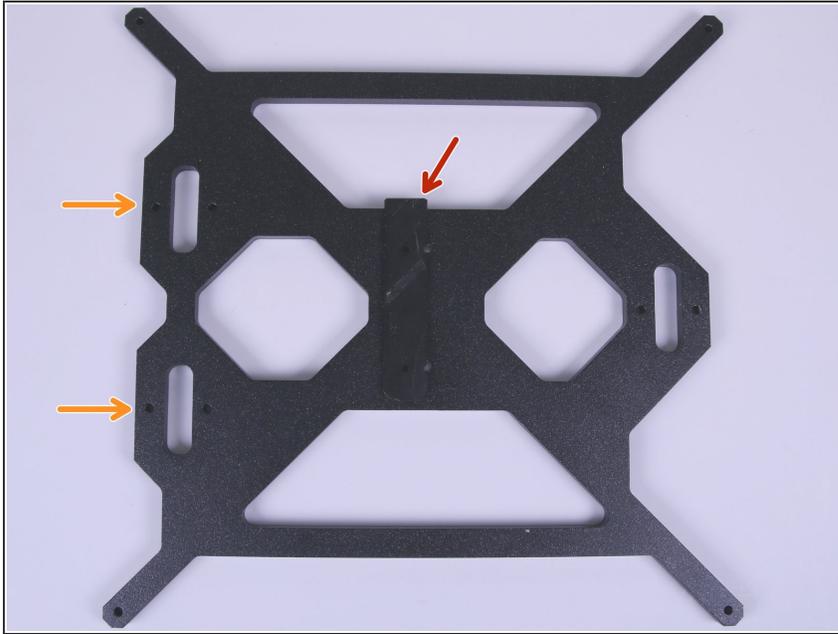
- Highlighted holes are going to be drilled in next steps.

Step 6 — Drilling Y-carriage



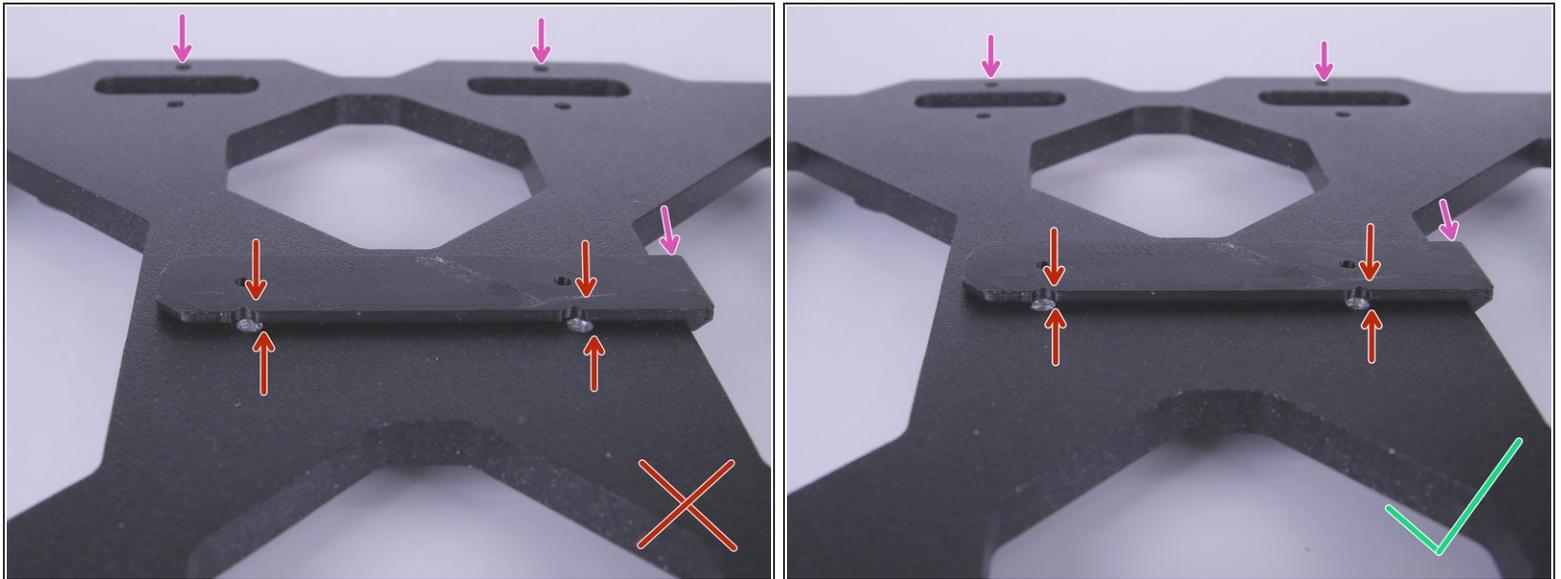
- Using the assembled P-drill, drill out the holes highlighted in the picture.
 - Rotate with the P-drill assembly clockwise as shown in the picture.
 - Apply force in direction through the Y-carriage.
- i** It's similar to opening a wine bottle, but don't apply that much force or the drill bit will get stuck. If it gets stuck, just rotate the opposite direction and repeat with smaller force.
- 🔧** If the drill bit is slipping in the printed part, just tighten the M3x12 screws a little more.

Step 7 — Identifying Y-carriage orientation



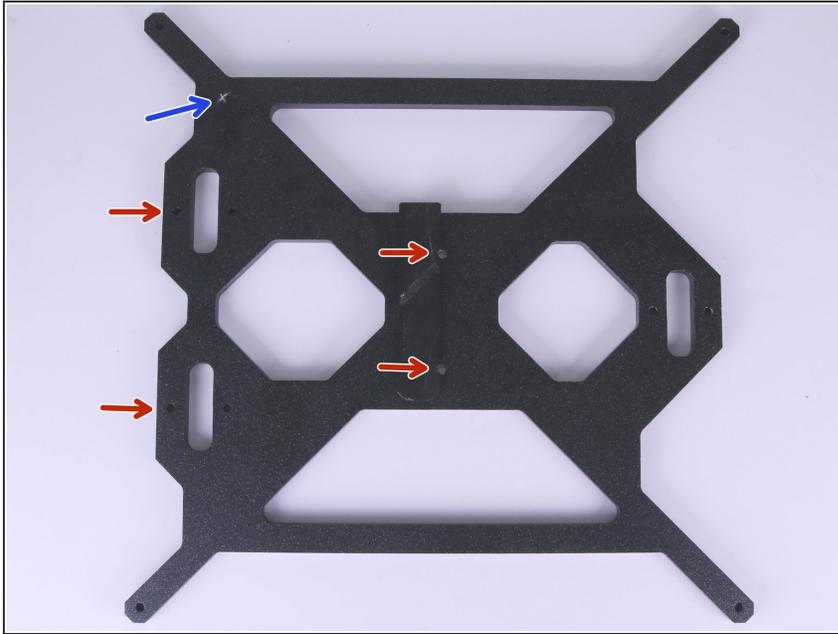
- Place the Y-identifier on the Y-carriage as shown in the picture (pin on the top, hanged on y-carriage, pushed as down as possible).
- Make sure that you have the side with two bearing holes on the left hand side.

Step 8 — Y-carriage identifying

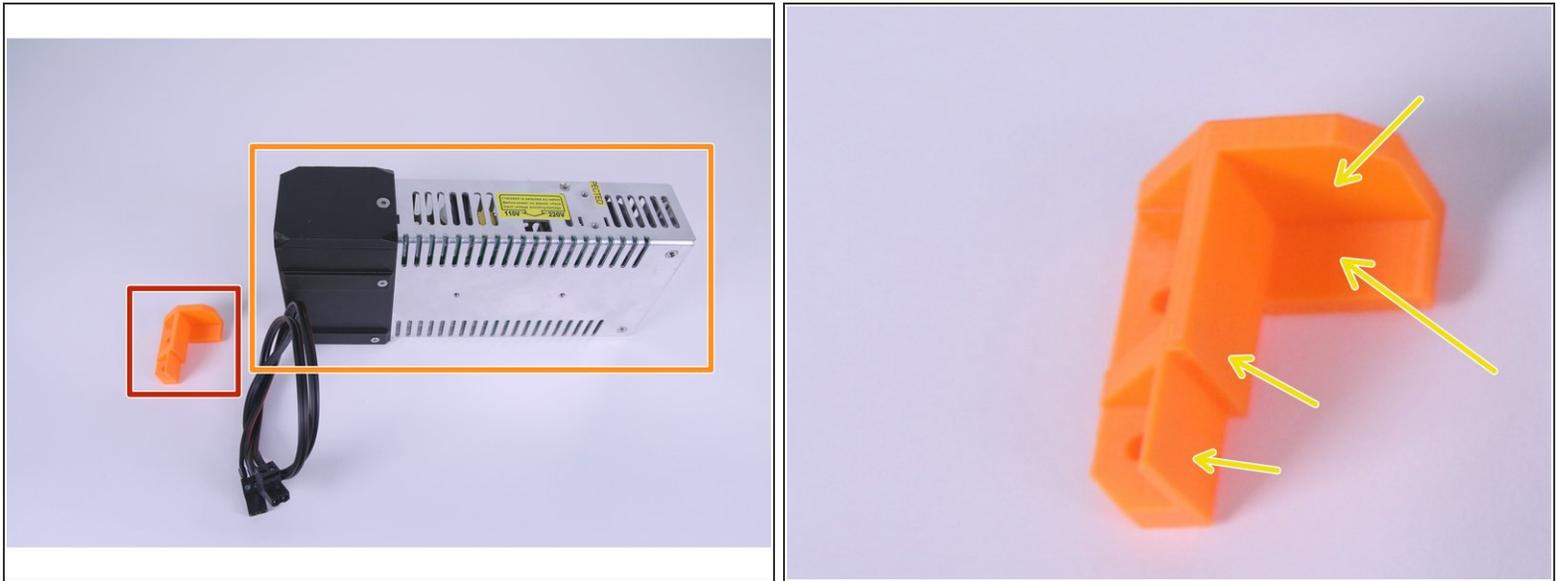


- Make sure that holes in the middle of the Y-carriage are perfectly aligned with the Y-identifier as shown in the second picture.
 - If they are not, turn the Y-carriage upside down and it should be aligned.
- ⚠ Keep in mind that you still need to have the side with two bearings on the same side as in the previous step. IT'S MANDATORY!

Step 9 — Y-carriage marking



- **DOUBLE CHECK** that you have aligned holes in the Y-carriage with the Y-identifier and two bearing holes on the left hand side.
- Make a mark on the top left corner (with a permanent marker or with the drill bit).

Step 10 — [OPTIONAL] PSU reinforcement part 1

i If you want to have as close experience as MK2 builders have, you can glue PSU-reinforcement part to you power supply.

- PSU-reinforcement
- Power supply
- Apply superglue (or alternative) here.

Step 11 — [OPTIONAL] PSU reinforcement part 2



- Press the PSU-reinforcement with glue on your power supply and wait until the glue dries.

Step 12 — Let's assemble!



- Great, you're ready to assemble the new MK2 printer.
- You can continue by [Assembly Instructions](#) for Original Prusa i3 MK2S.
- Happy assembling!