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# Z9V5-MK4 installation guide

## Installation video tutorial

## ATTENTION

Please strictly follow the standard operation when installation.

Please put the printer away from the reach of kids.

Must be guided by adults when children are installed or used.

Take care when installation, to avoid electrical shock hazards.

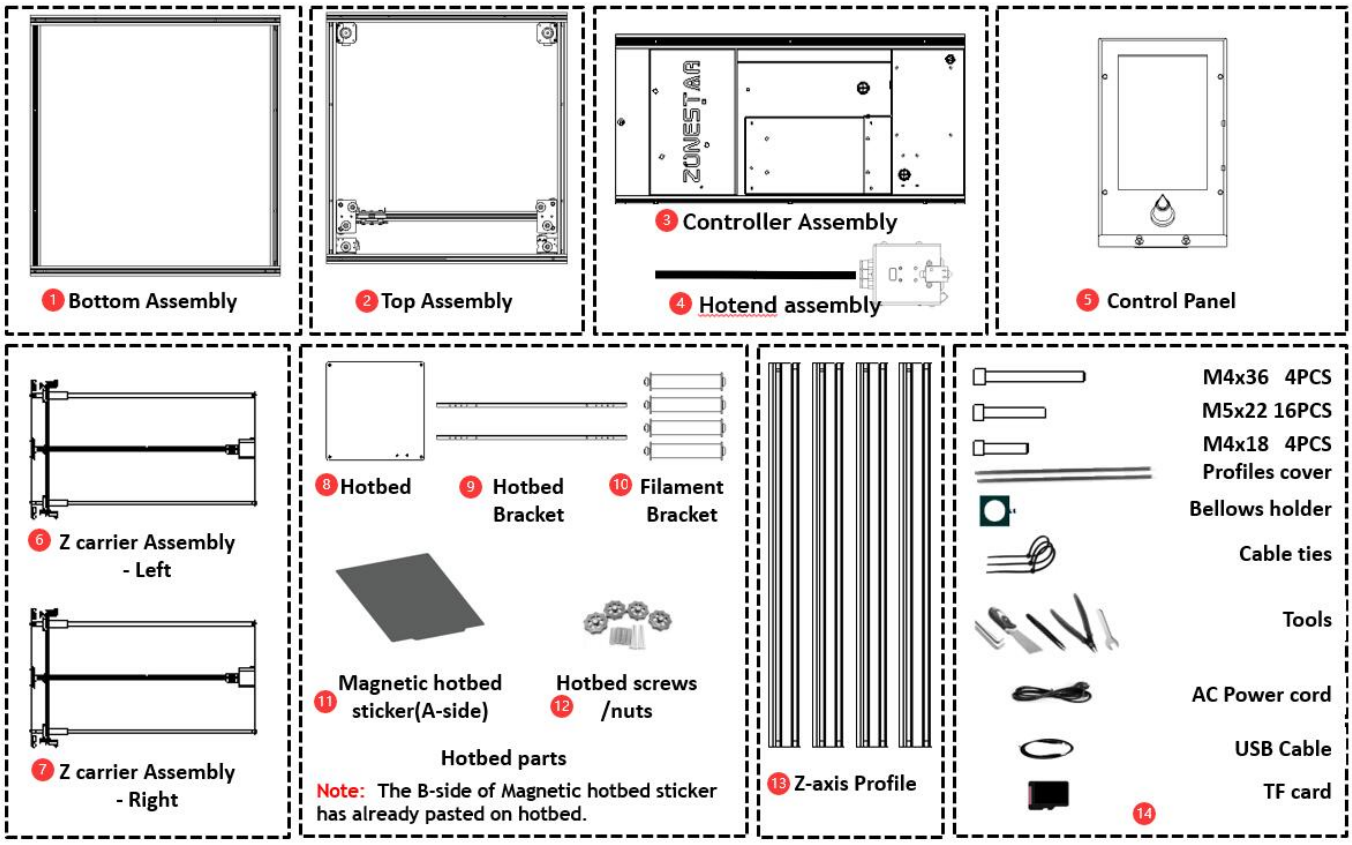
Hotend has high temperature even the printer stop working.

Hotbed has high temperature even the printer stop working.

Please keep well-ventilated condition! May produce toxic gases when printer working.

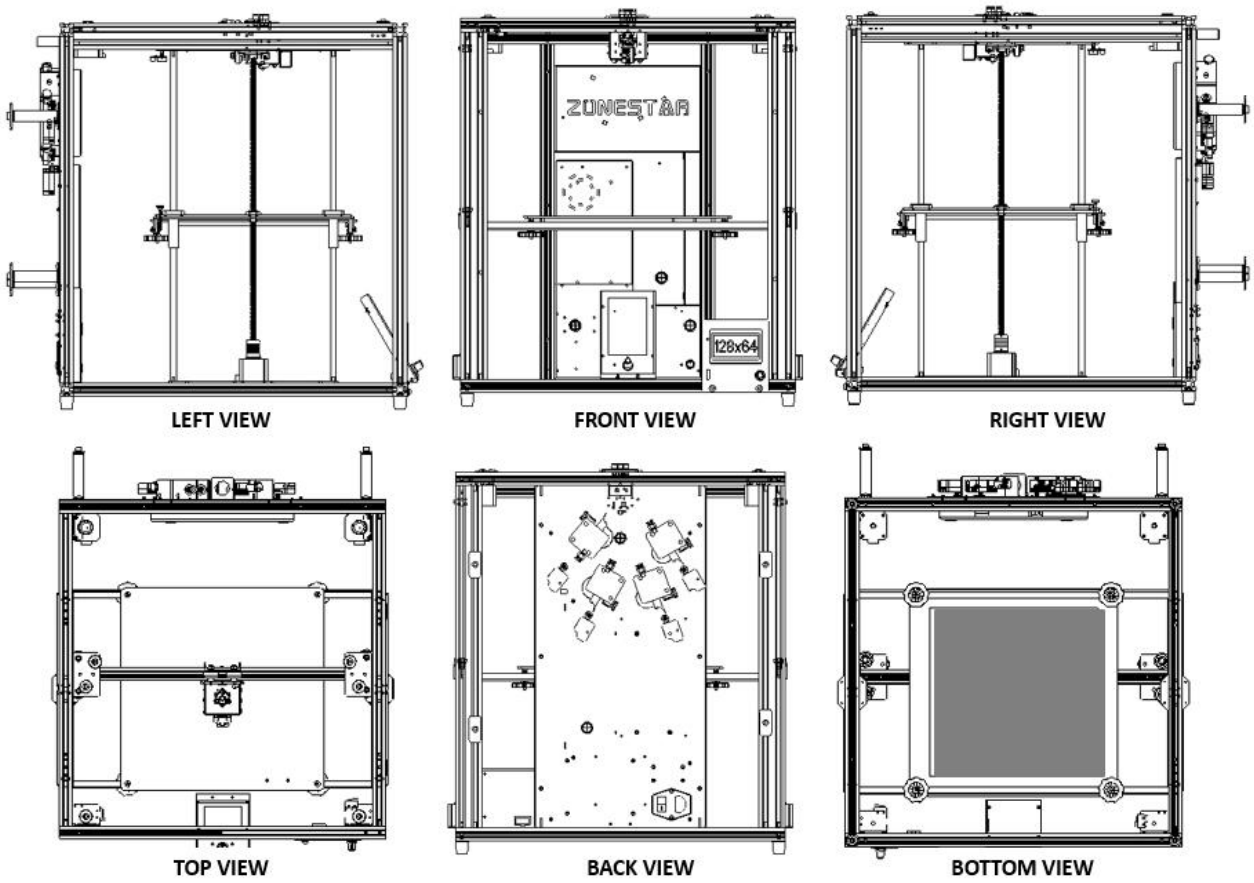
## Inventory and Understand Components

Parts list

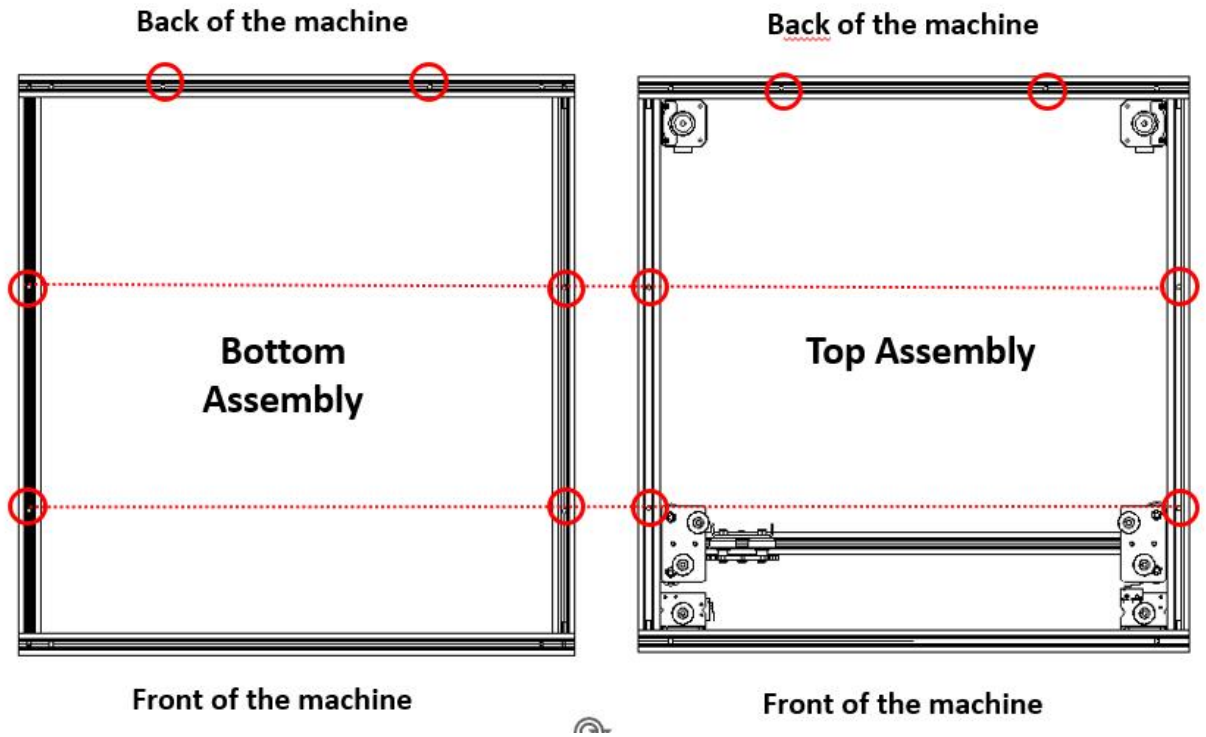



1. Bottom Assembly 2. Top Assembly 3. Controller Assembly 4. Hot end assembly
5. Control Panel 6. Left Z carrier Assembly 7. Right Z carrier Assembly 8. Hotbed
9. Hot bed Bracket 10. Filament Bracket 11. Magnetic hotbed sticker 12. Hotbed screws /nuts
13. Z-axis Profile 14. Others (screws, tools, cable tie, SD card, Spare parts, etc.)

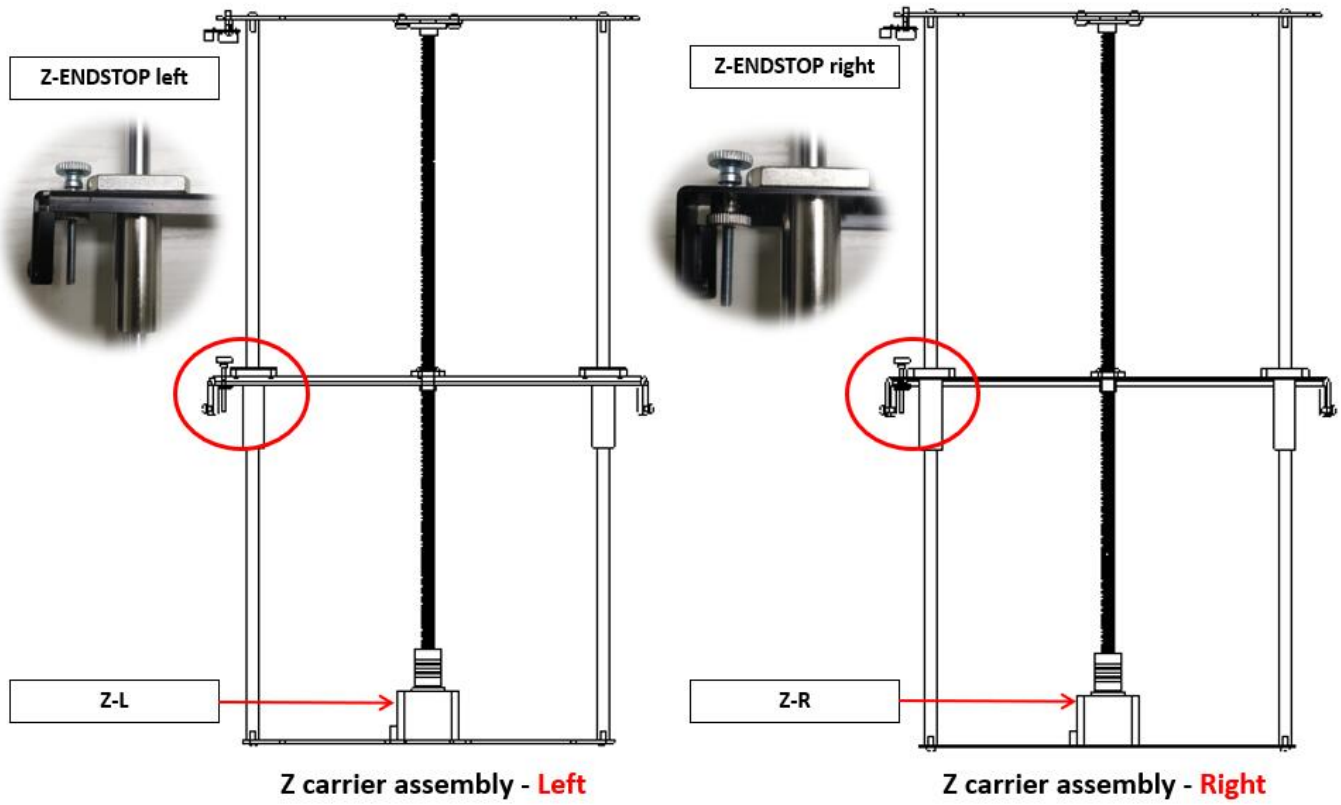
## Machine View (after installed)




Installation direction




⚠ Pay attention to distinguish the front and back of the top and bottom assembly.

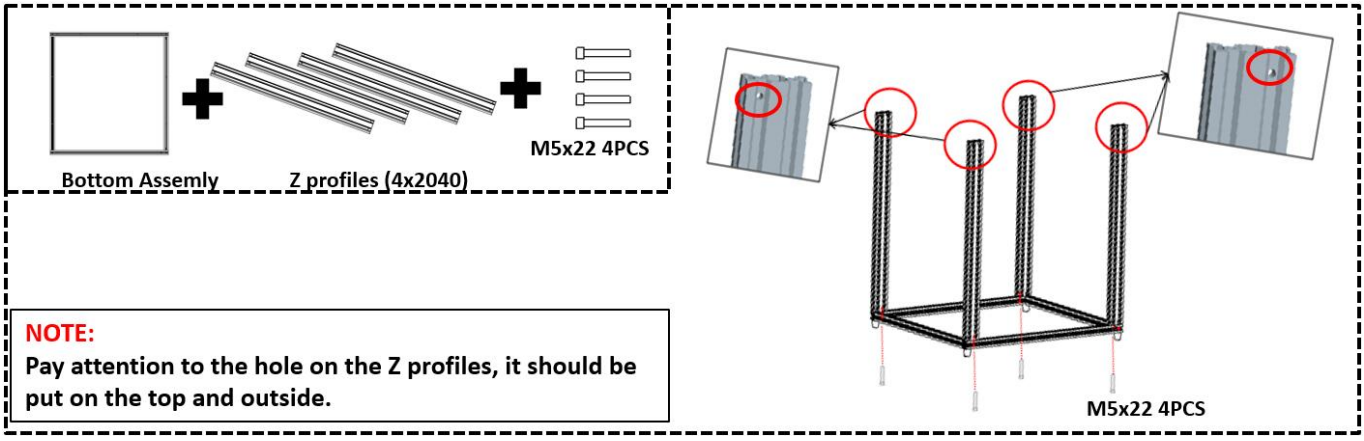



⚠ Pay attention to distinguish the left Z carrier assembly and the right Z carrier assembly.

## Assembly

### 1. Install Z profiles

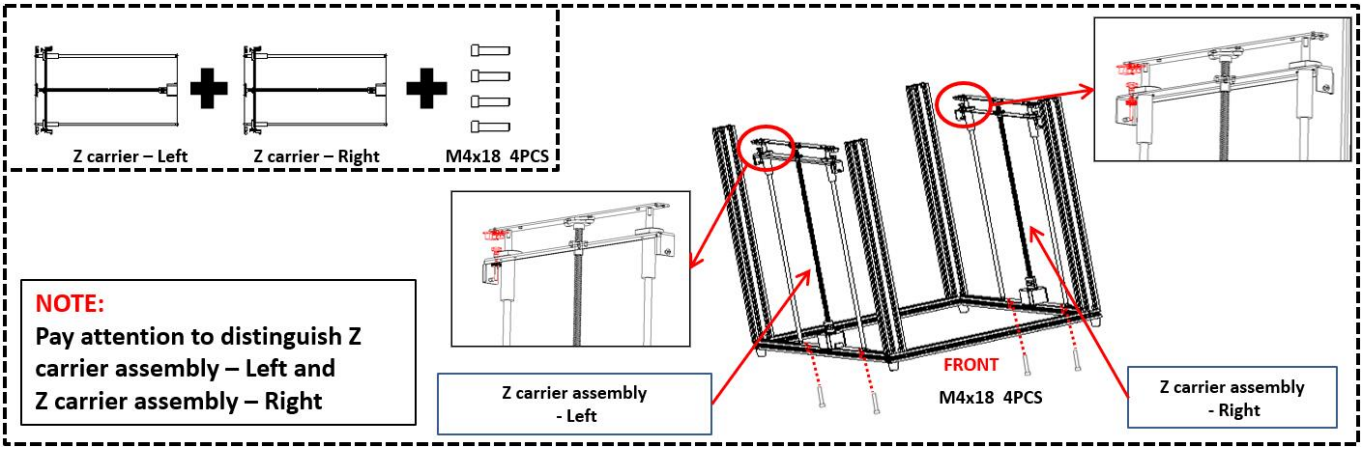
**Install 4 Z Profiles to the bottom assembly. Note that there is a hole on one of side of Z profile, this side should be toward to the upper. There is a hole next to the rubber foot pad of the bottom assembly, which is used to fix the Z-axis profile. Mount M5x22 screws from the bottom profiles upwards and secure to Z profile.**




⚠ Pay attention to the hole on the Z profiles, it should be put on the top and outside.

### 2. Install Left & Right Z carriers

**Install Left & Right Z carriers to the bottom assembly. Note that the side with a Z limit switch of the Z carrier should towards the back of the machine. Mount M4x18 screws from the bottom profile upwards and secure to the sheet metal of the Z carrier.**

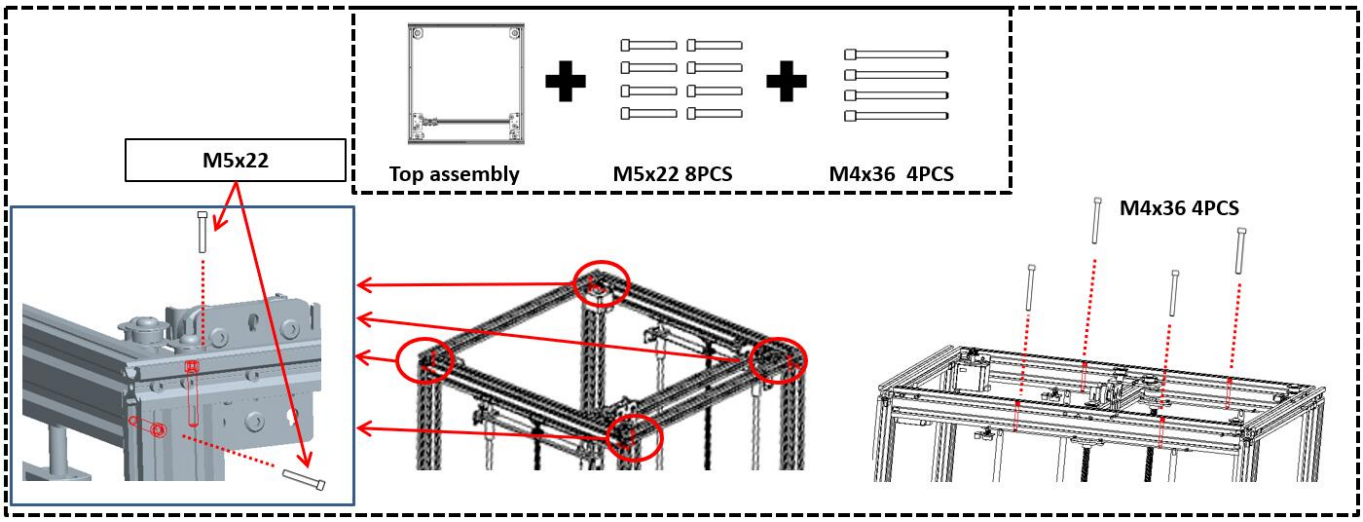



⚠ Pay attention to distinguish Left Z carrier assembly and Right Z carrier assembly.

## 3. Install top assembly

**Place the top assembly (the side with motors on the back) on the Z-axis profiles, note that the screw cap of the Z carriers should be placed in the groove of the profile of top assembly. Two sides are fixed to the sheet metal of the Z carriers by using M4x36 long screws, use 4 PCS M5x22 screw to fix the top assembly and the Z-axis profiles, and use other 4 PCS M5x22 screws to fix the side of the Z profiles and the Y-axis profiles.**

⚠ Don't tighten these screws in this step.

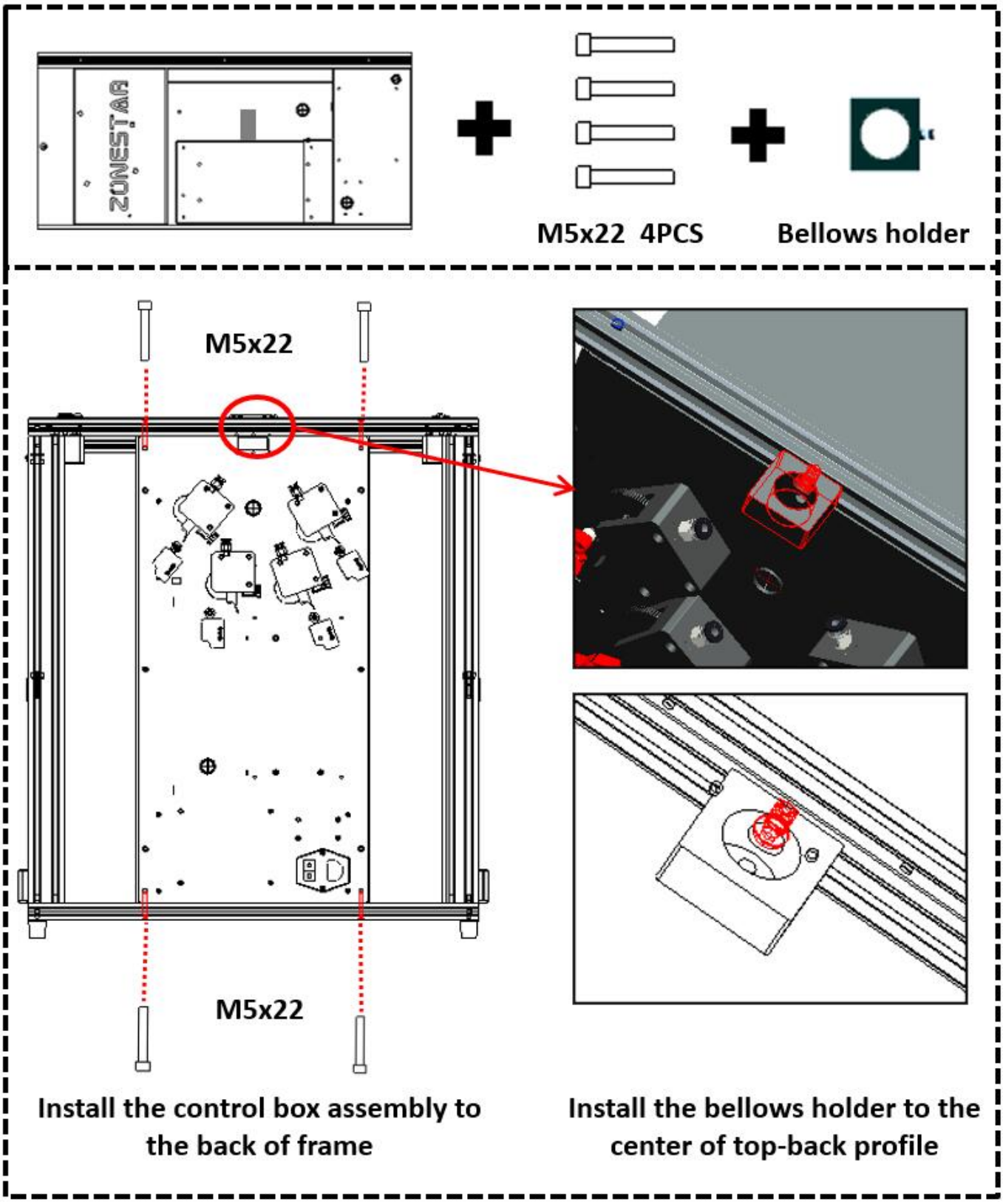



## 4. Install controller assembly

**4.1 Put the control box assembly between the top assembly and the top assembly of the back of the machine, use 4 PCS M5x22 screws to fix it on the profiles.**

**4.2 Tighten all those screws installed on step 3.**

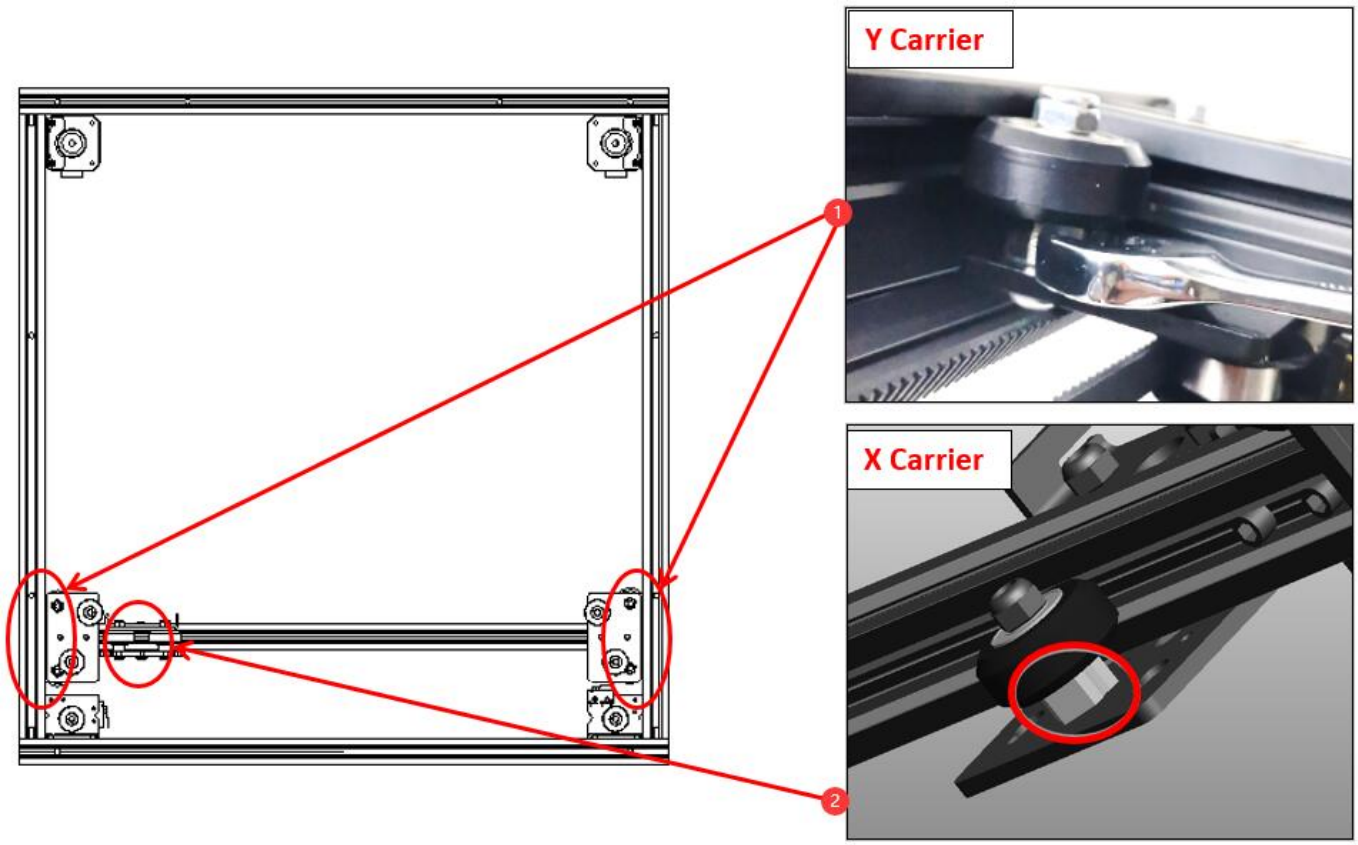
**4.3 Install the bellows holder to the center of top-back profile.**




## 5. Adjust the eccentric columns

**5.1 Adjust the eccentric columns (2 PCS on the left and 2 PCS on the right) under the Y carrier, and move the Y profile from front and back, ensure it can move smoothly and doesn't shake.**

**5.2 Adjust the eccentric column under the X carriers, and move the X carriers from left and right, ensure it can move smoothly and doesn't shake.**

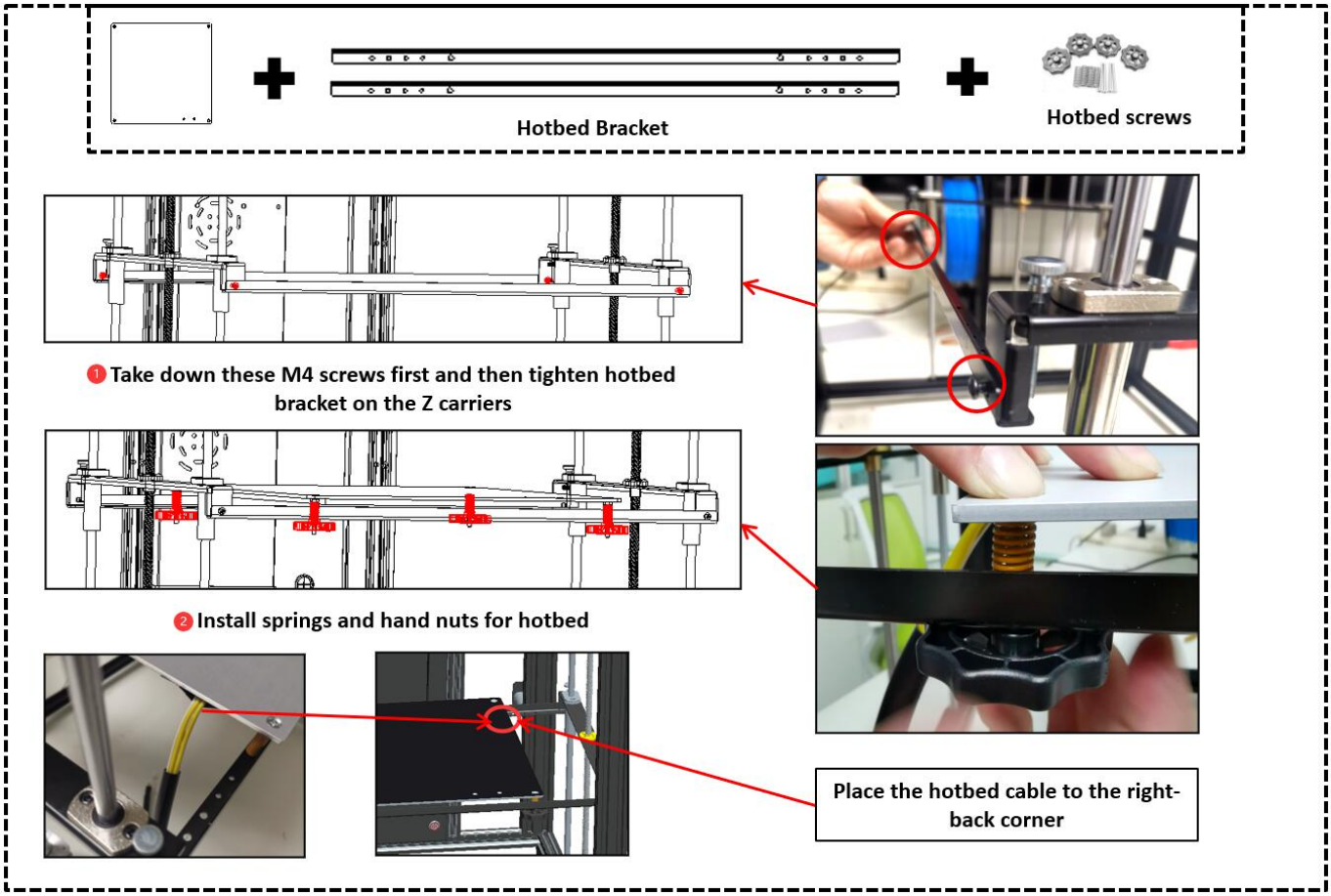



6. Install hot bed parts

**6.1 Take down these M4 screws first on Z carriers metal pieces and then use these M4 screws to mount hot bed brackets on the Z carriers,**

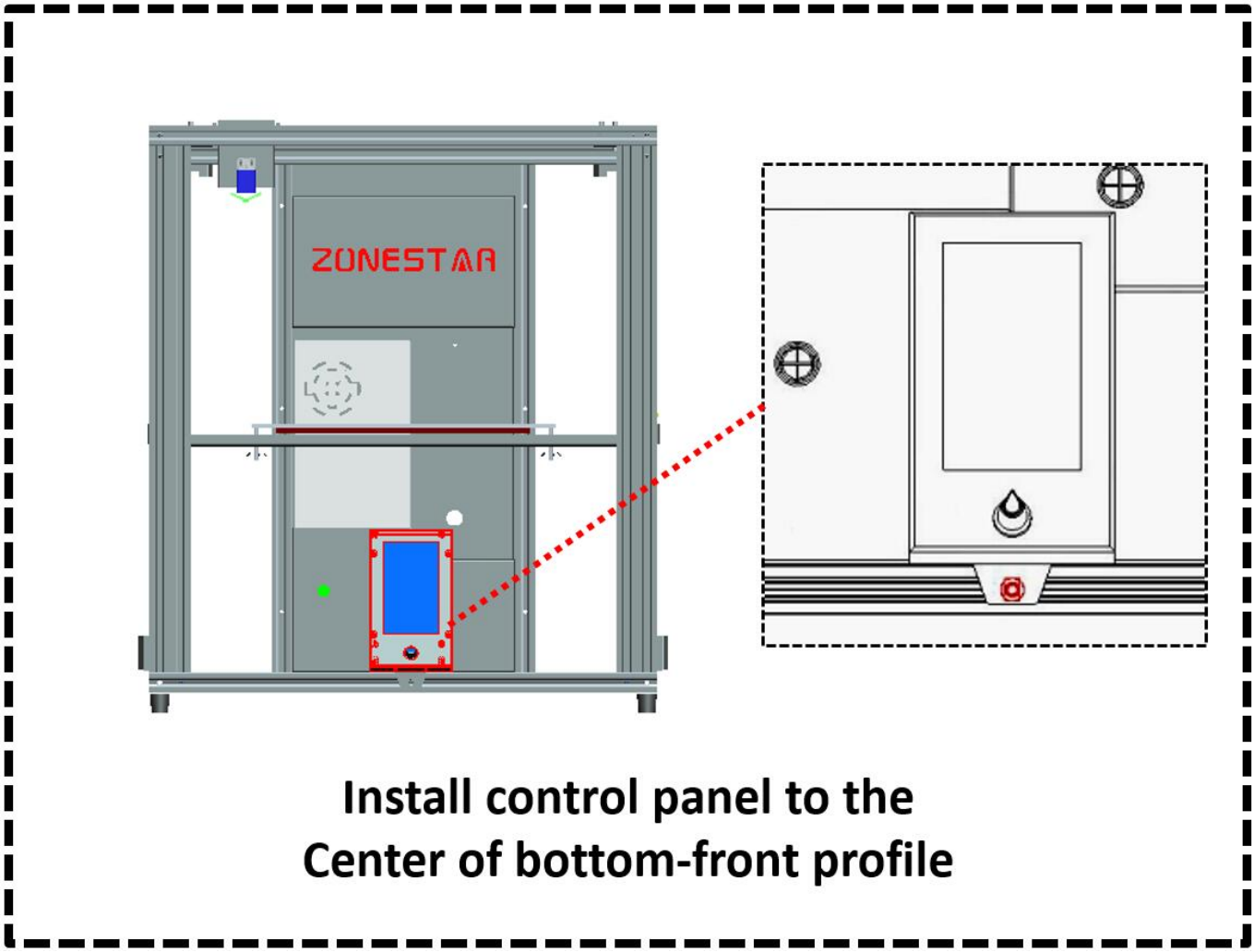
**6.2 Install aluminum heat bed to the hot bed brackets, the springs should be placed between the heat bed and the bracket, install the hand nuts under the brackets.**

⚠ Note the the hotbed cable should be place to the right-back corner of the machine.



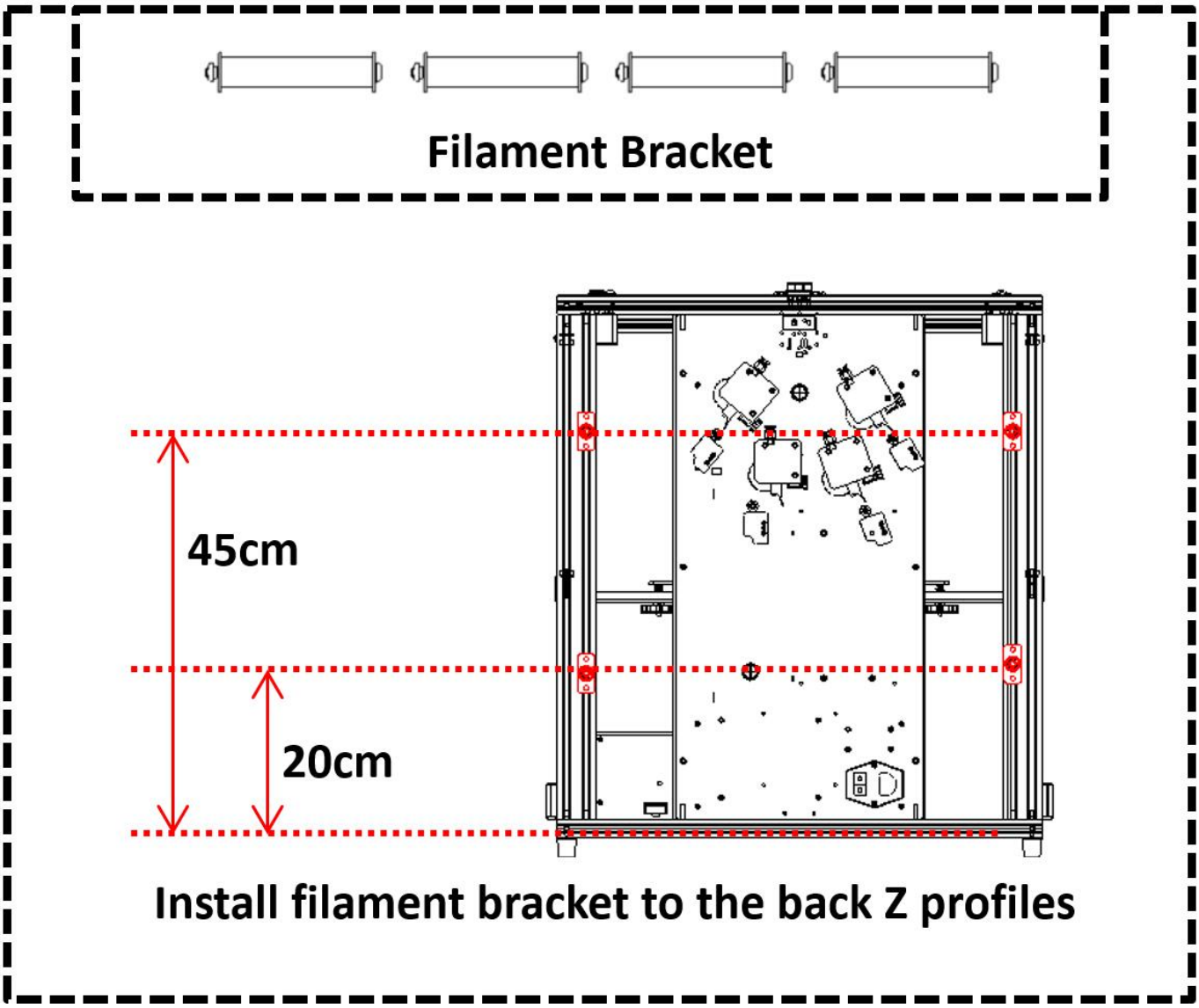

## 7. Install control panel

**Install control panel to the center of bottom-front profile.**




8. Install filament holders

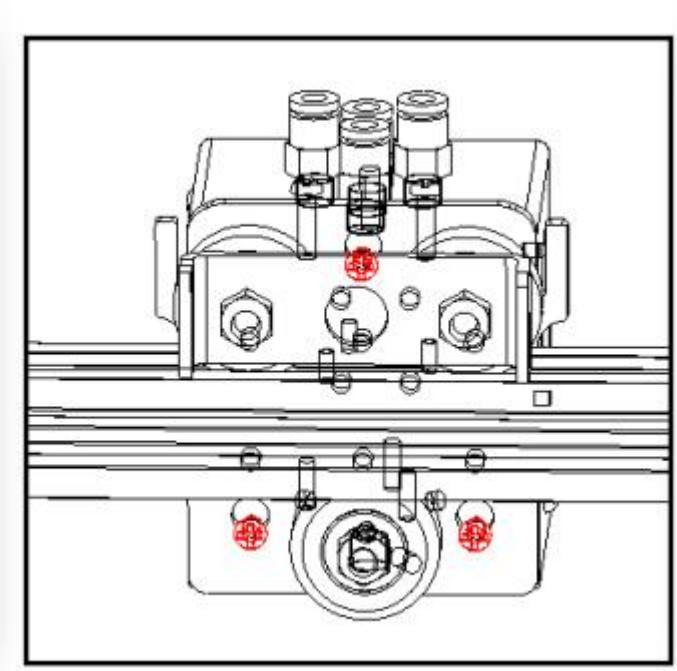
**Install 4 sets of filament brackets to the back Z profiles.**

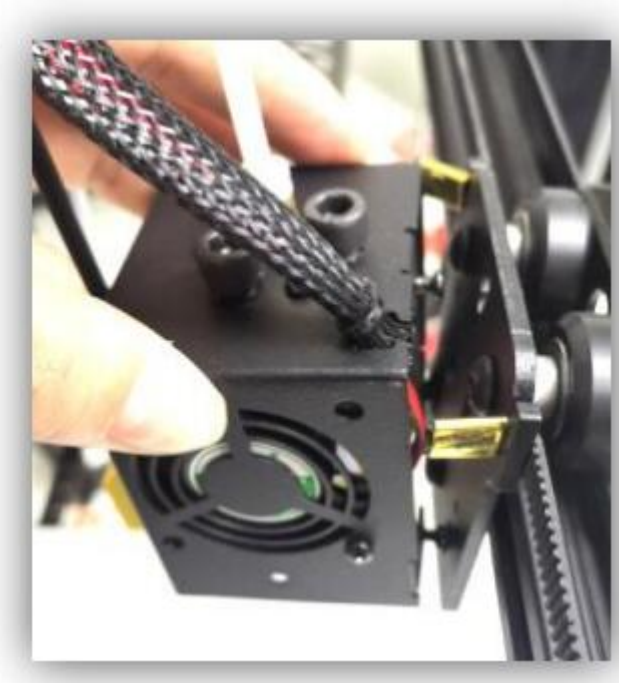



9. Install hotend assembly

**Loosen the 3 pcs of screws on the hot end assembly and then mount the hot end assembly to the X carrier.**

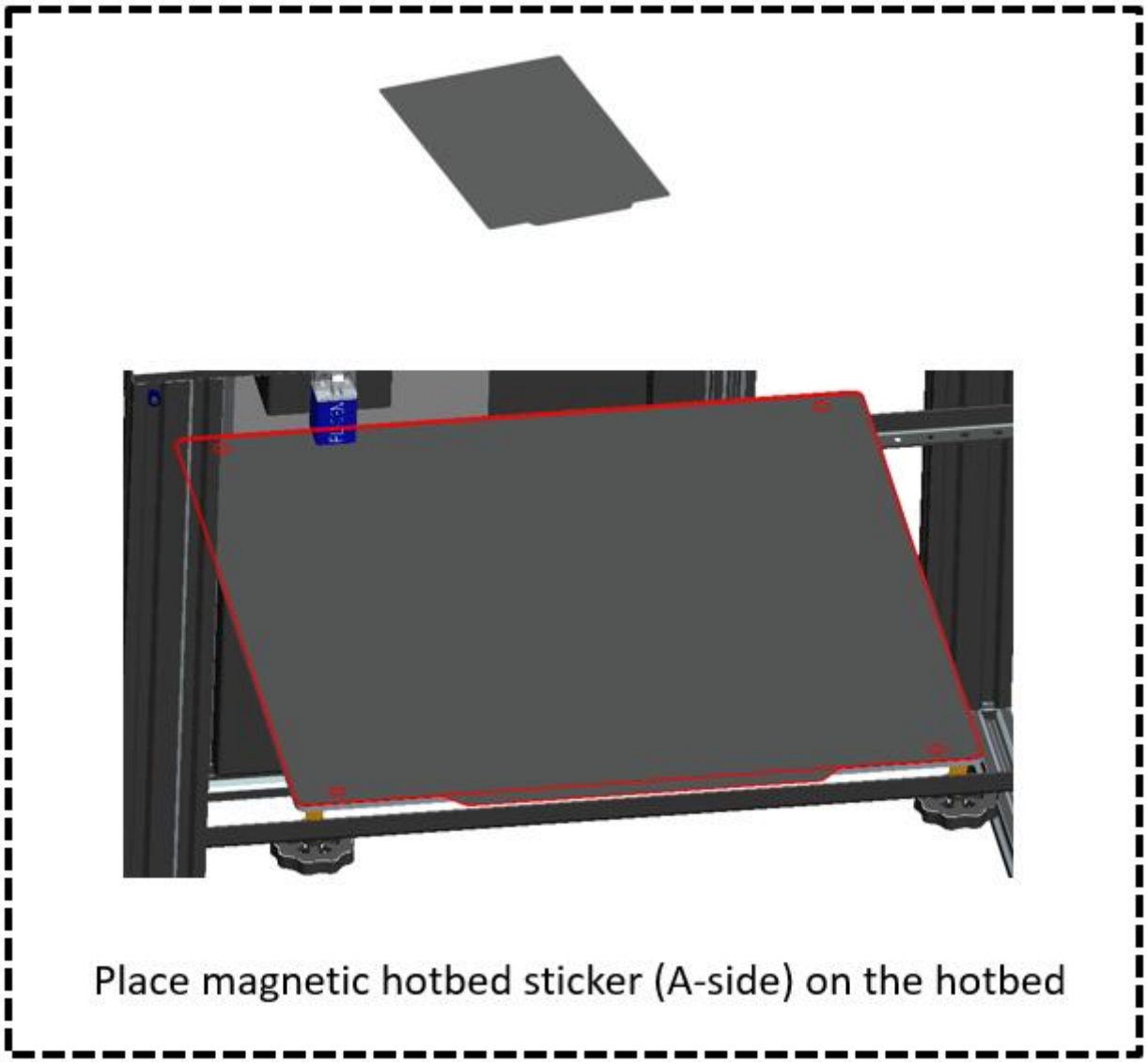
⚠ Depending on the time of purchase, the appearance of the hot end assembly may differ from the image below.





10. Place the heat bed sticker

**Place the "A side" of the magnetic hot bed sticker (that with PC film) on the hot bed (B side has already pasted on the heat bed).**




## Congratulate!

After completing the above steps, the machine installation is announced to be completed, next you can arrange the wiring.

👉 **Go to wiring guide**.