

DMYCO 3D PRINTER

DMY3DP-001

INSTALLATION GUIDE v0.1

Classification Of Screws



M3 nuts 60pcs



M8 nuts 12pcs



M8 Cushion ring
12pcs



M3*20mm screws
58pcs



M3*10mm screws
17pcs



M3*14mm screws
4pcs



M2.5*10mm black
screws 2pcs



M3*30mm screws
7pcs



Plastic Pillars 4pcs

Classification Of Screws



M3*30mm screws 4pcs



M4*15mm screws
12pcs



Wing nuts*4



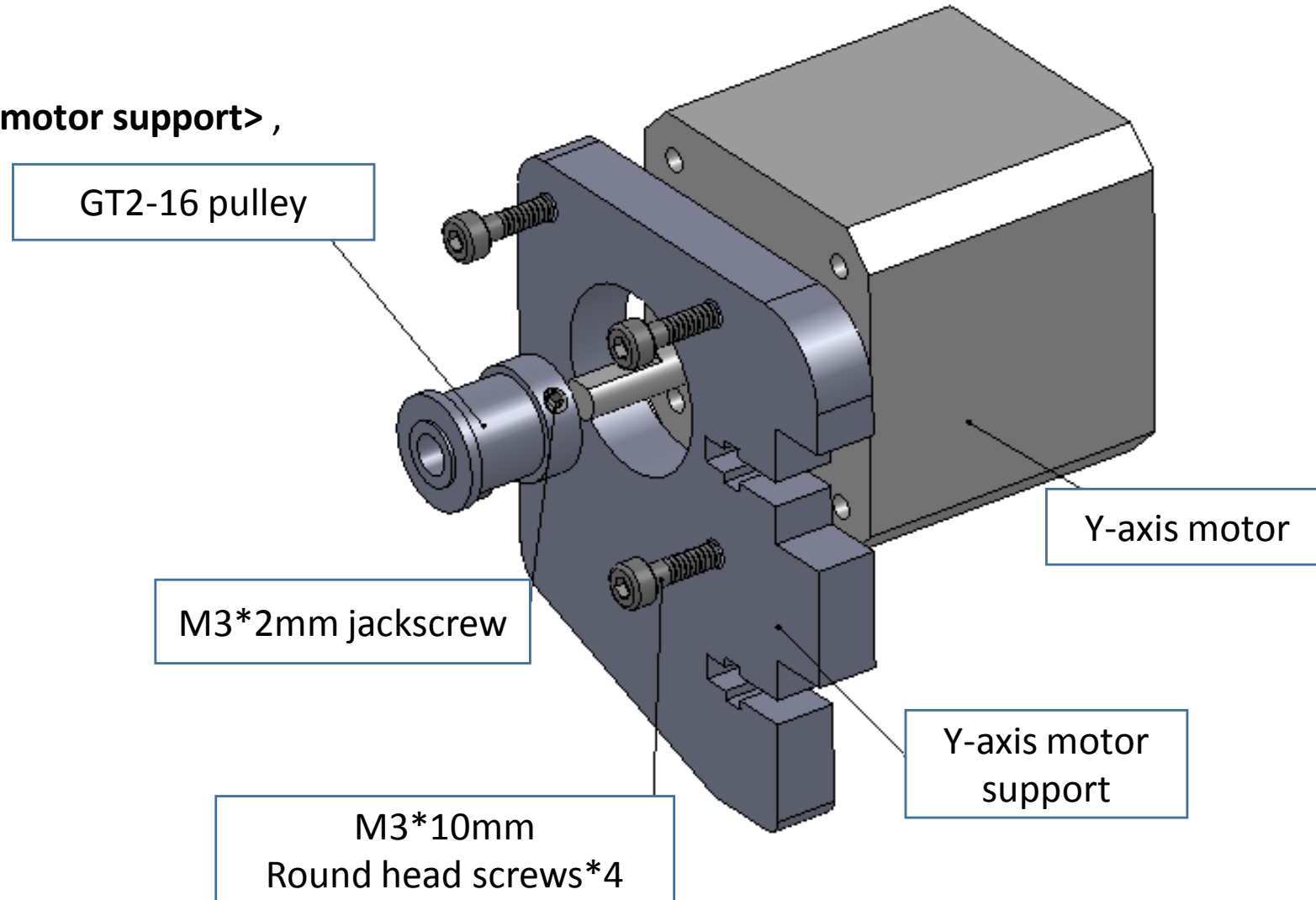
Compression springs*4



M3*20mm screws
4pcs

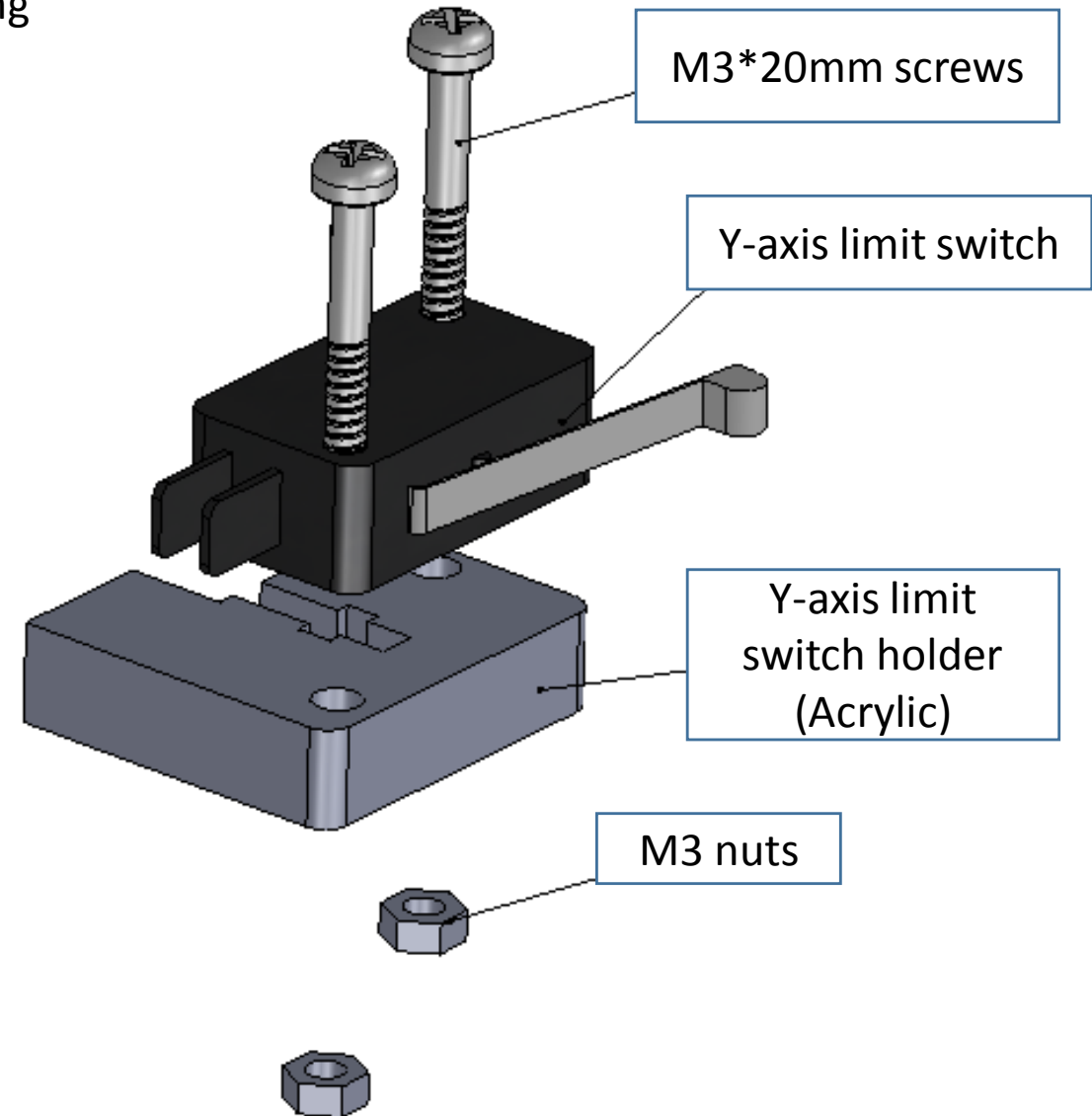
Step 1 Assemble Y-axis Motor

- ◆ Fit the **GT2-16 pulley** on the motor, Locking with **M3*2mm jackscrew**.
- ◆ As the picture, Put Y-axis motor on **<Y-axis motor support>** , locking with Four **M3*10mm screws**.



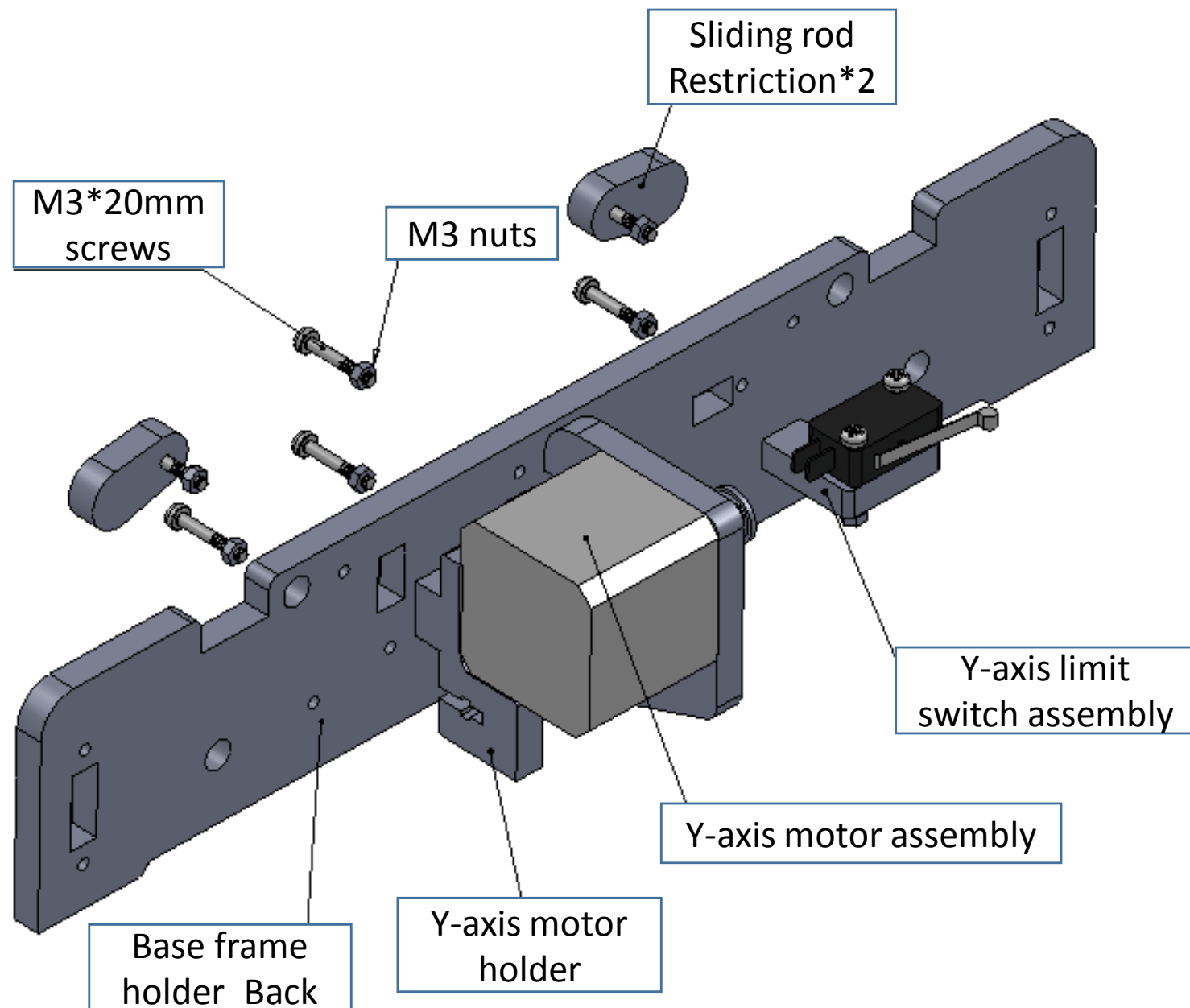
Step 2 Assemble Y-axis Limit switch

- ◆ Put the **Y-axis limit switch** and the **holder** together ,locking with two **M3*20mm screws & nuts**. As picture



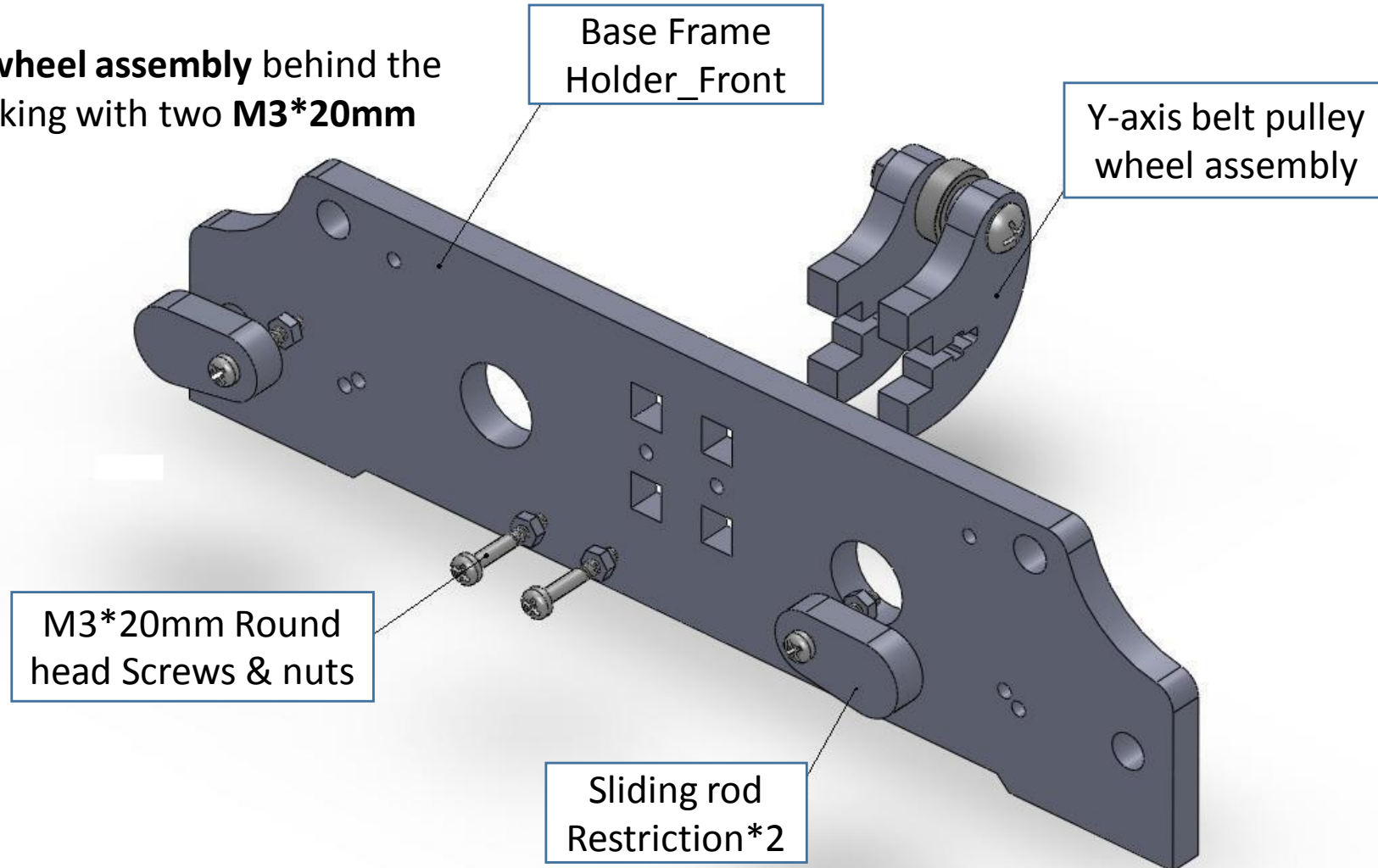
Step 3 Assemble Base Frame Holder_Back

- ◆ As the picture, put two of the **Sliding rod Restriction** in front of the **base frame holder (back)**. locking with two **M3*20mm screws & nuts**.
- ◆ Put the limit switch and holder assembly on the base frame holder, locking with one **M3*20mm screw & nut**.
- ◆ Put **Y-axis motor holder** on base frame holder ,locking with one **M3*20mm screw & nut**.
- ◆ Put **Y-axis motor assembly** on base frame holder, locking with three **M3*20mm screws & nuts**.

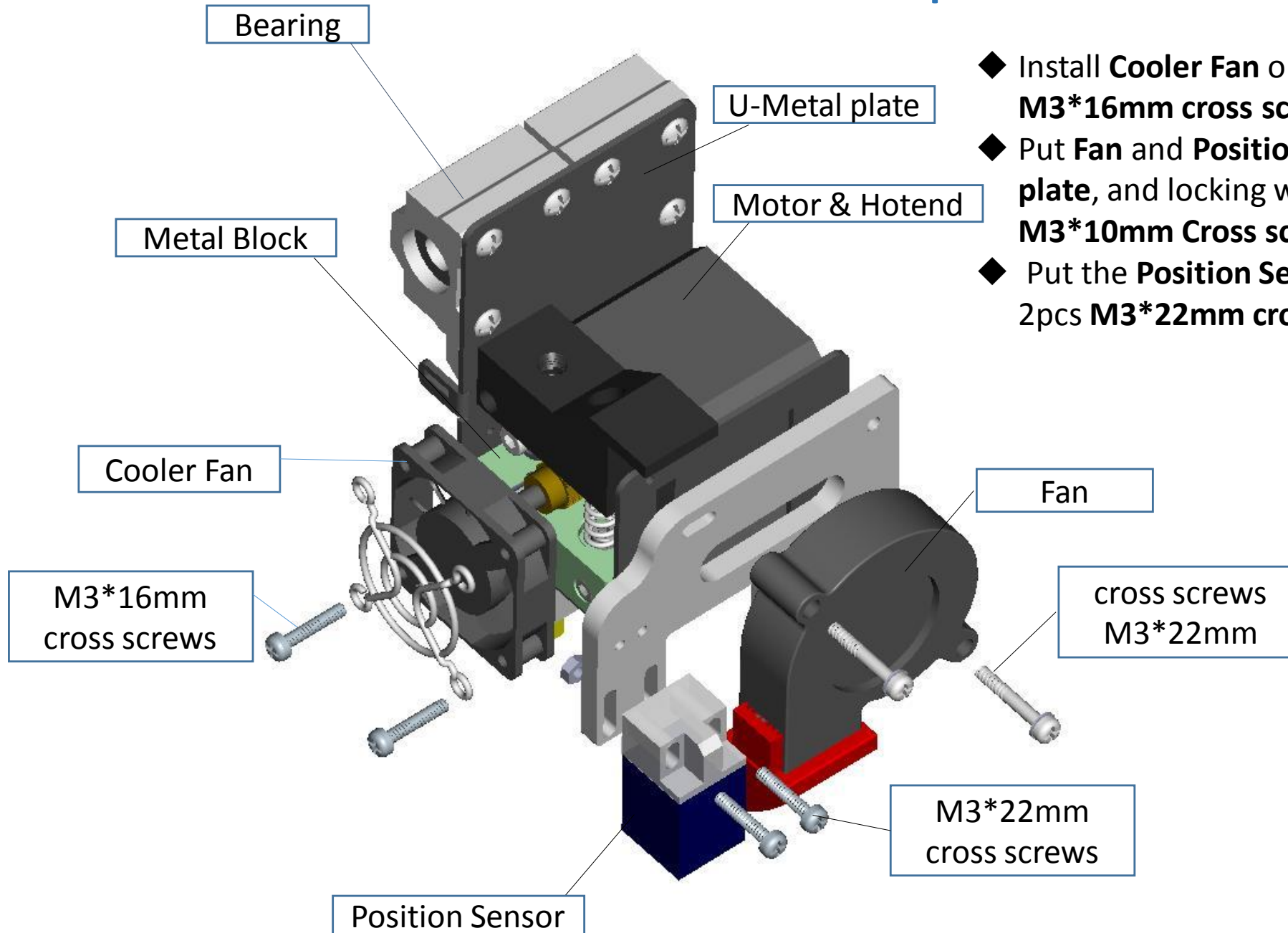


Step 4 Assemble Base Frame Holder_Front

- ◆ As the picture, put two of the **Sliding rod Restriction** in front of the **base frame holder_front**. locking with two **M3*20mm Round head screws & nuts**.
- ◆ Put **Y-axis belt pulley wheel assembly** behind the base frame holder, Locking with two **M3*20mm screws & nuts**.



Step 5 Assemble Extruder (with Auto leveling)

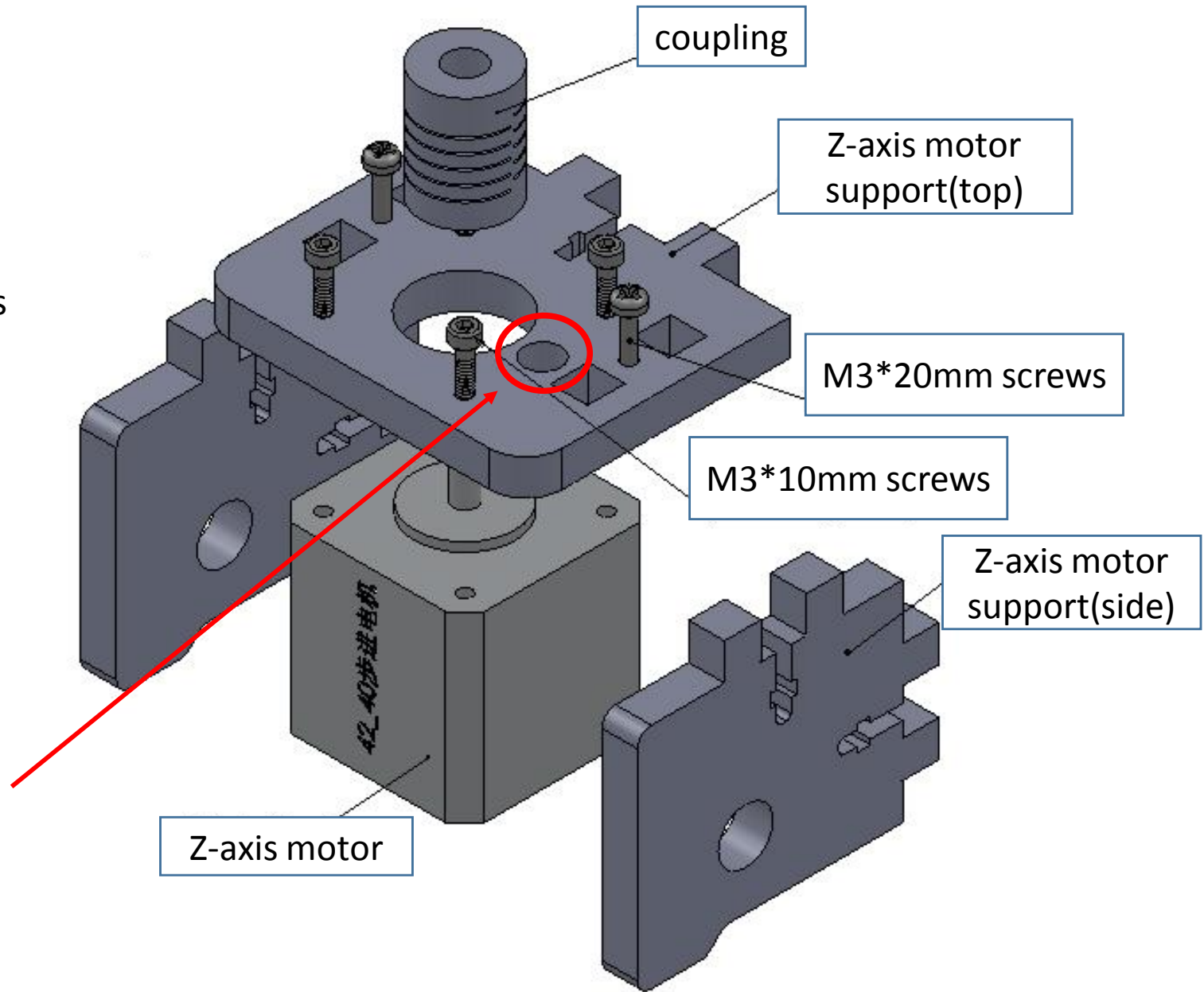


- ◆ Install **Cooler Fan** on the **Metal Block** use 2pcs **M3*16mm cross screws** .
- ◆ Put **Fan** and **Position Sensor Holder** to the **U-Metal plate**, and locking with 2pcs **M3*20mm** and 1pcs **M3*10mm Cross screws** ,as picture
- ◆ Put the **Position Sensor** on the holder ,locking with 2pcs **M3*22mm cross screws**.

Step 6 Assemble Z-axis motor

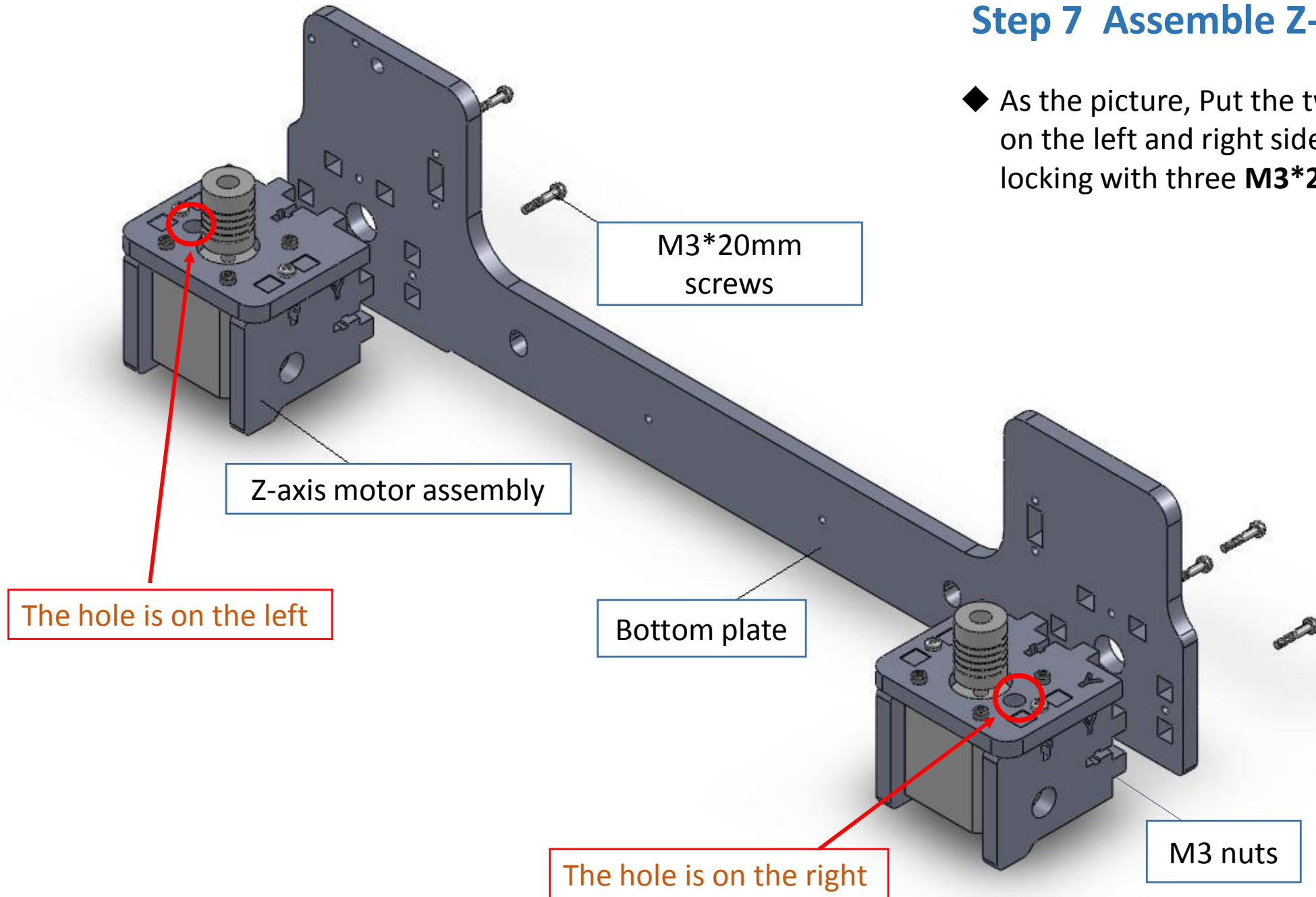
- ◆ Put two **Z-axis motor support(side)** in two sides of the motor, Cover the **Z-axis motor support(top)** on the top, locking with **M3*20mm screws & nuts**.
- ◆ The cable of Z-axis motor is back of the Z-axis motor support. Locking **Z-axis motor** with four **M3*10mm screws**.
- ◆ Put the **coupling** on the motor, locking with the jackscrews.
- ◆ Another Z-axis motor is the same assembly.

Note: There are 2pcs Z axis motors . See the hole , the right motor put the hole on the right , the left motor put the hole on the left . (The picture shows the right motor)



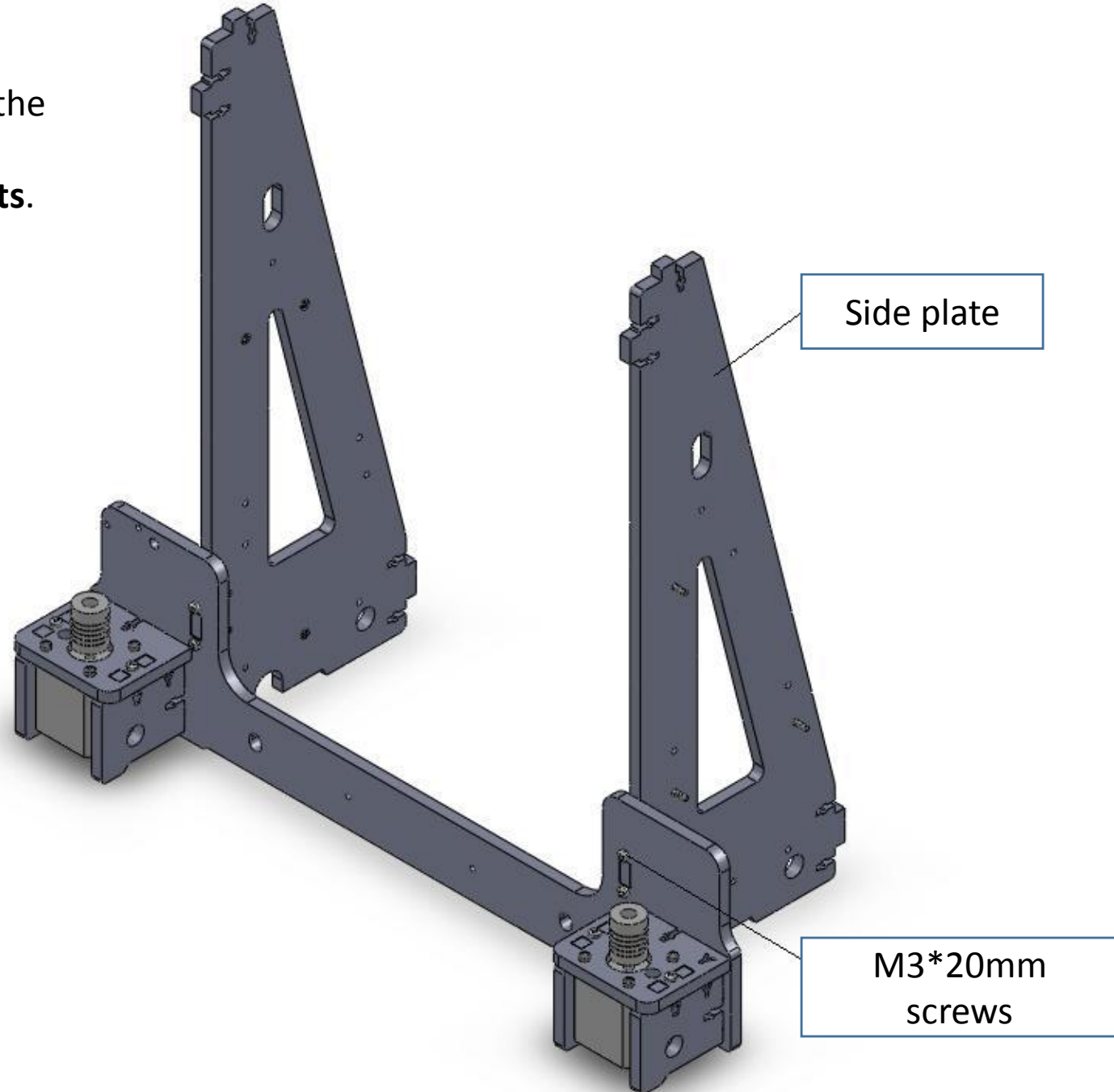
Step 7 Assemble Z-axis

- ◆ As the picture, Put the two **Z-axis motors assembly** on the left and right side of the **Bottom plate**, locking with three **M3*20mm screws & nuts**.



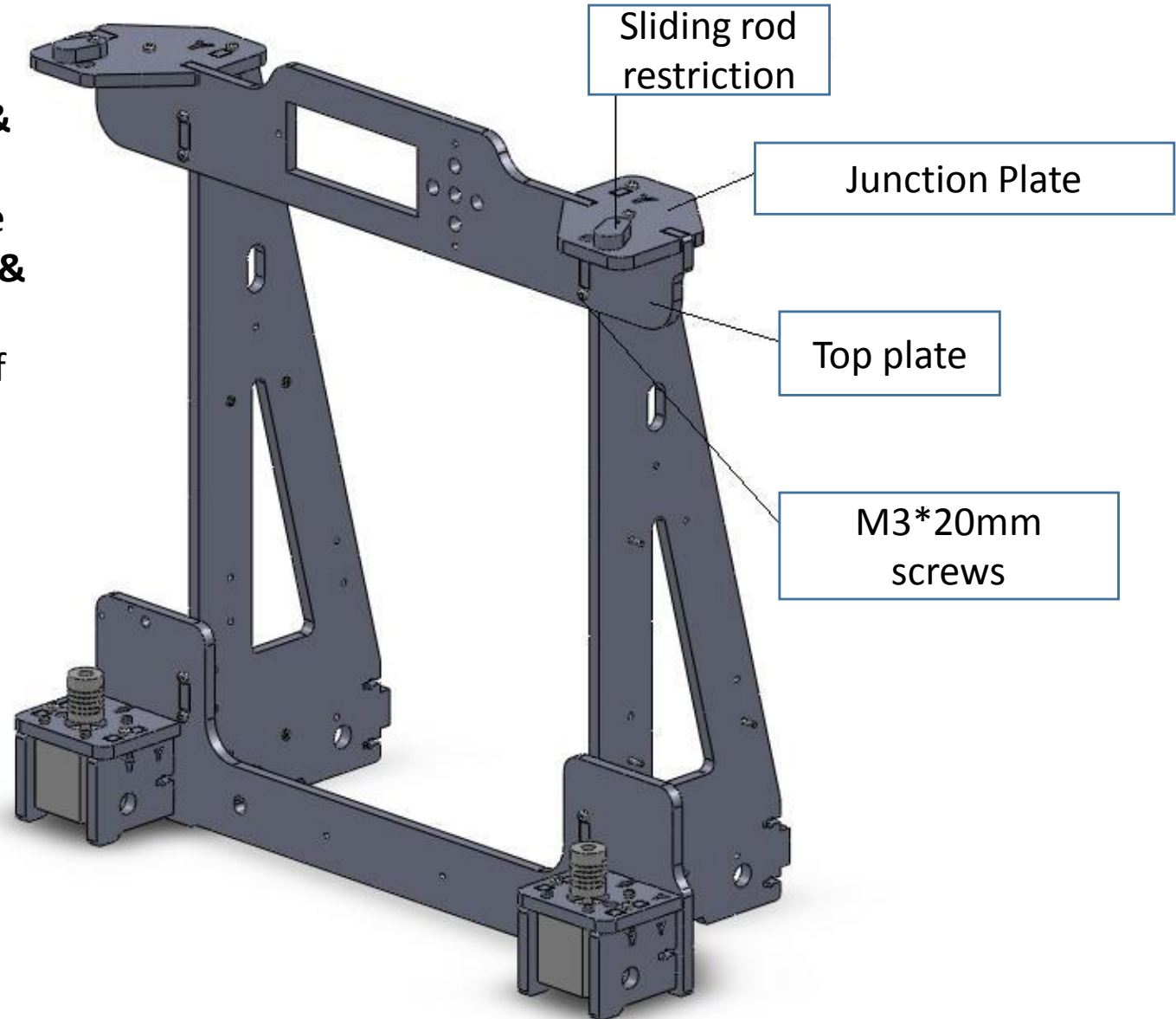
Step 8 Assemble Side plate

- ◆ As the picture, Put the two **Side plate** on the left and right side of the **Bottom plate** , locking with four **M3*20mm screws & nuts**.



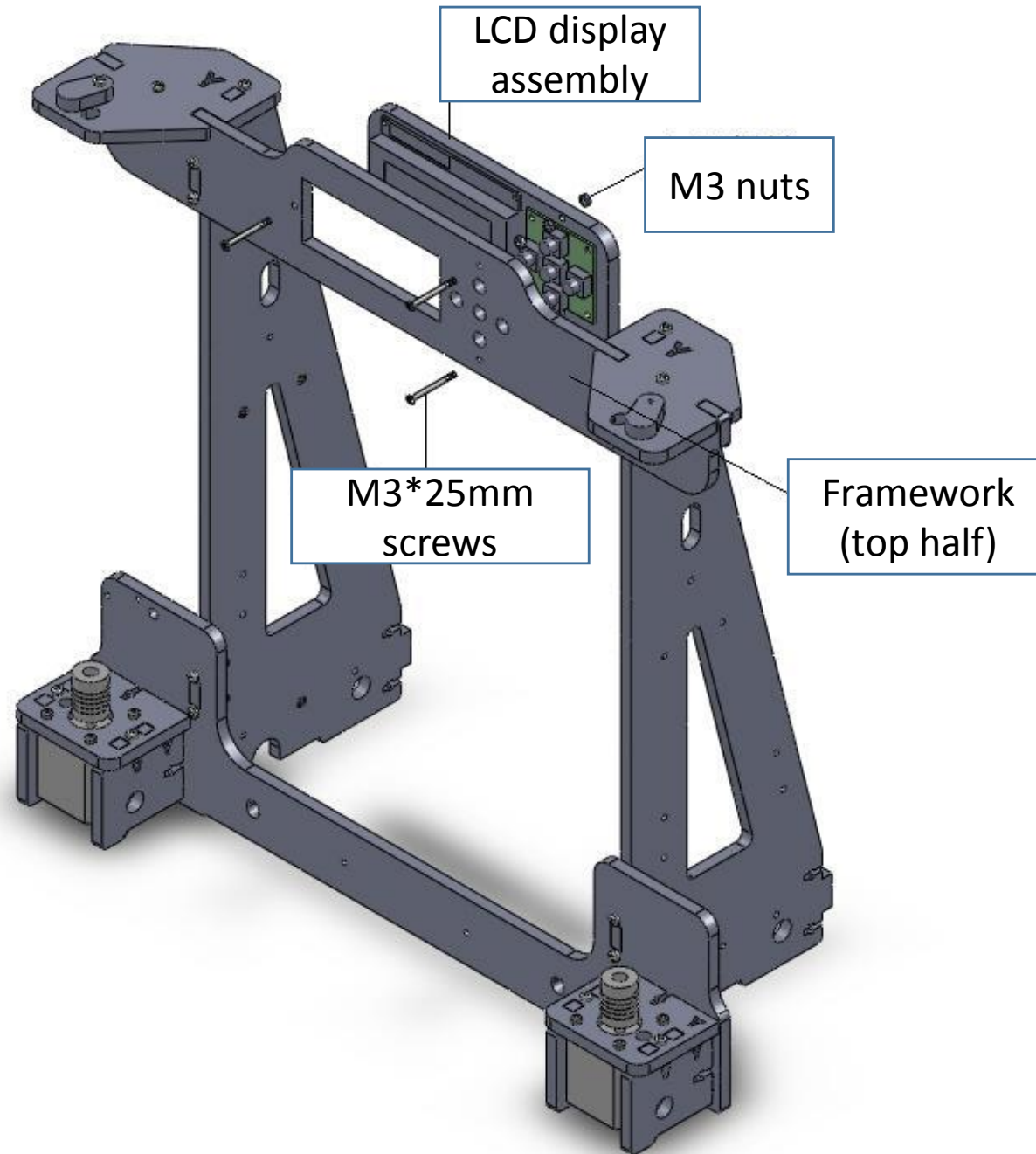
Step 9 Assemble Top plate & Junction Plate

- ◆ As the picture, Put the **Top plate** on **Side Plate**, locking with four **M3*20mm screws & nuts**.
- ◆ Put the two **Junction Plate** on the top of the **Side plate**, locking with four **M3*20 screws & nuts**.
- ◆ Put two **sliding rod restriction** on the top of left and right sides. Locking with one **M3*20mm screw & nut** each.



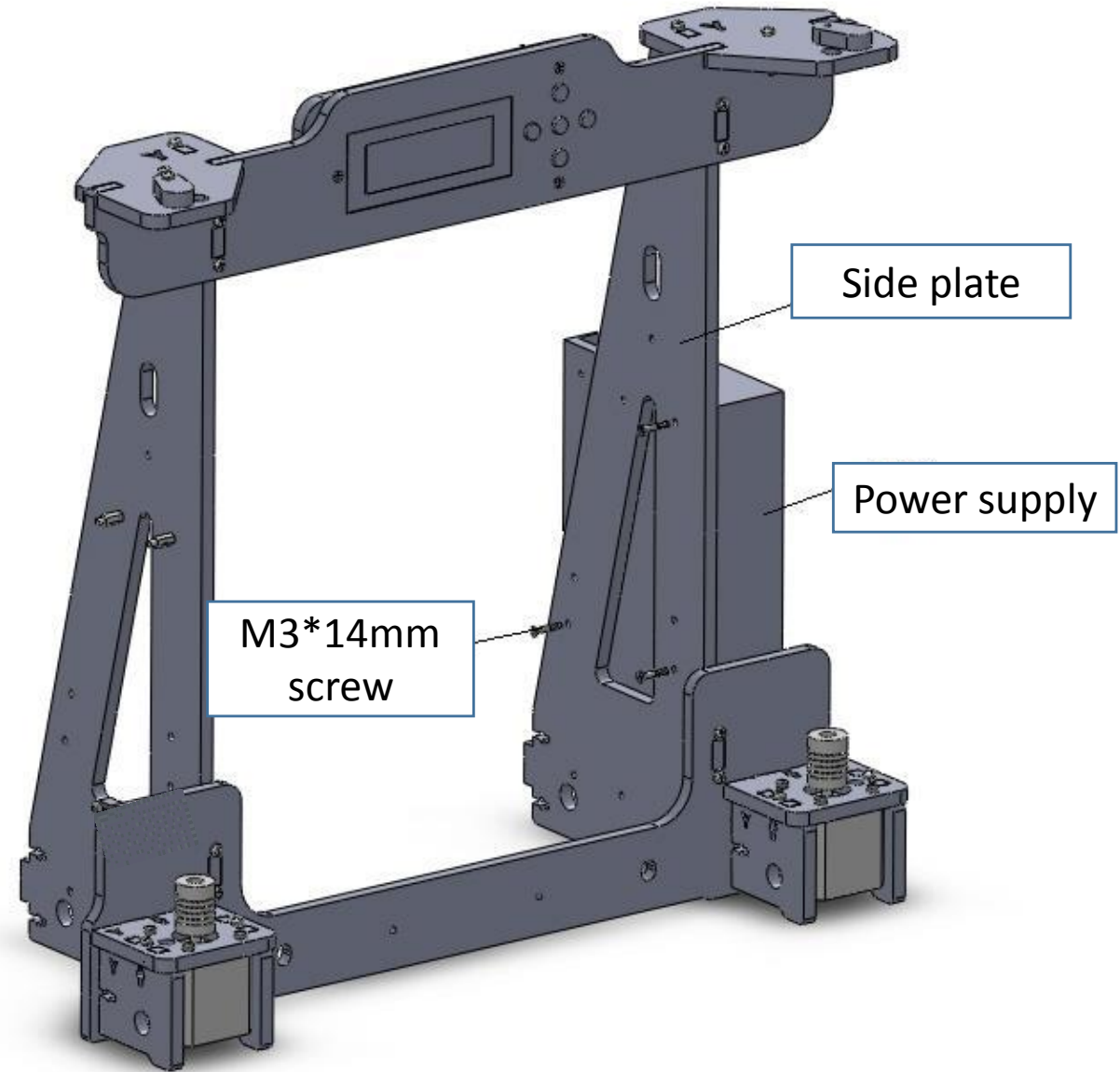
Step 10 Install LCD display

- ◆ Put the **LCD display** on the top of the **Top plate** ,locking with three **M3*25mm screws &nuts**



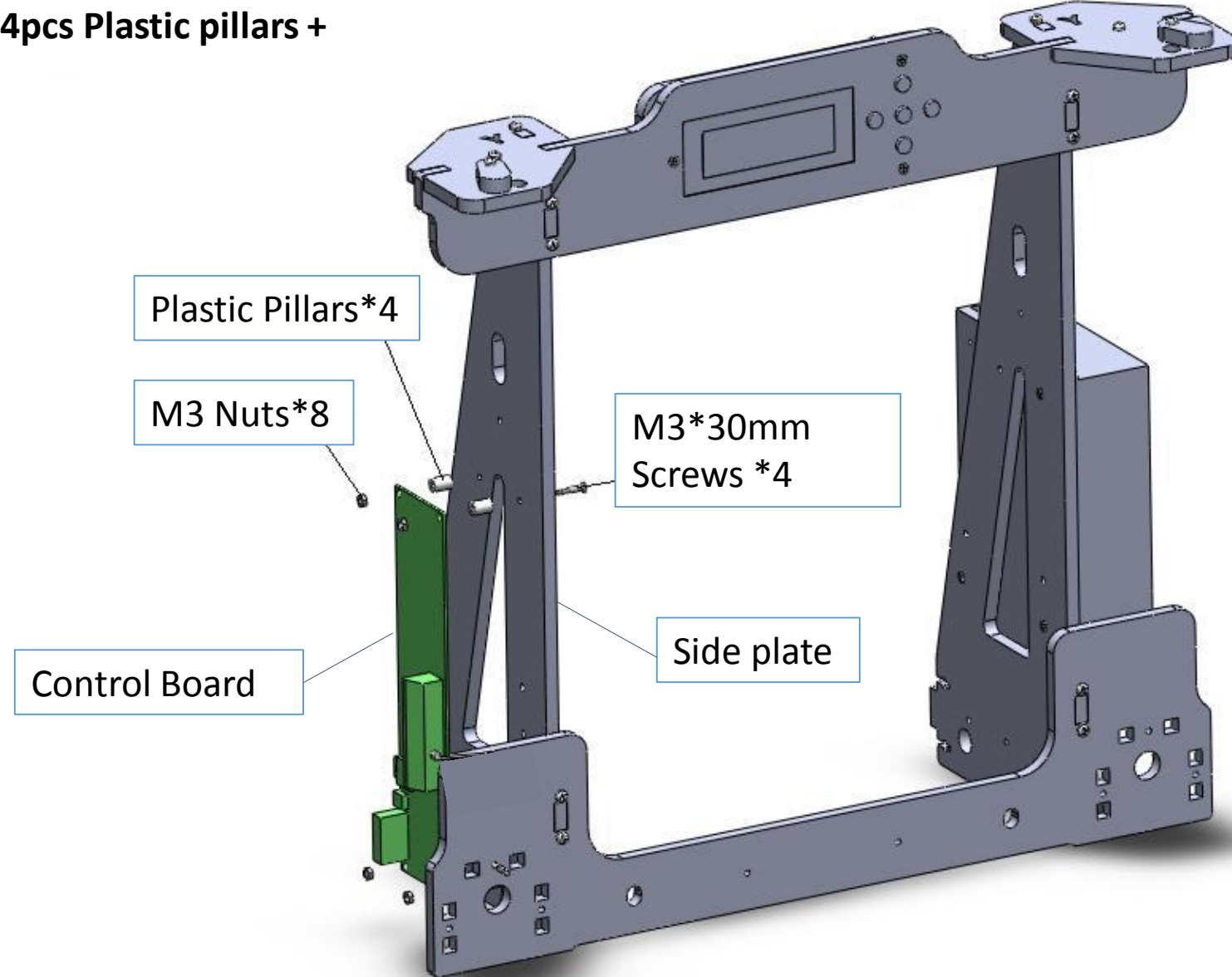
Step 11 Install Power supply

- ◆ Put **Power supply** on the right of the **side plate** , locking with three **M3*14mm screws** and nuts.



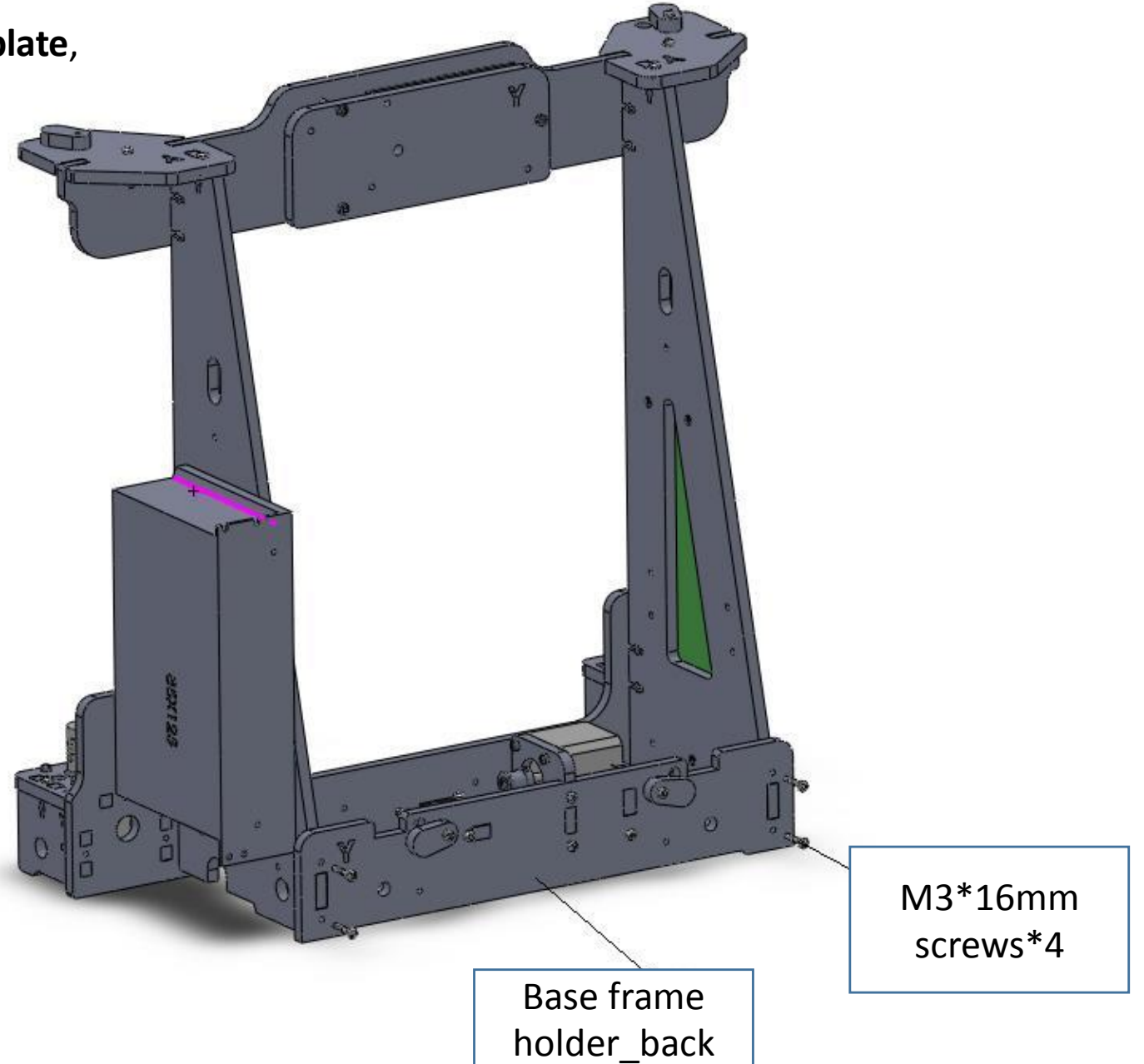
Step 12 Install PCBA Control Board

- ◆ Install **Control Board** as picture , locking with Four **M3*30mm screws** + **4pcs Plastic pillars** + **4pcs M3 nuts**



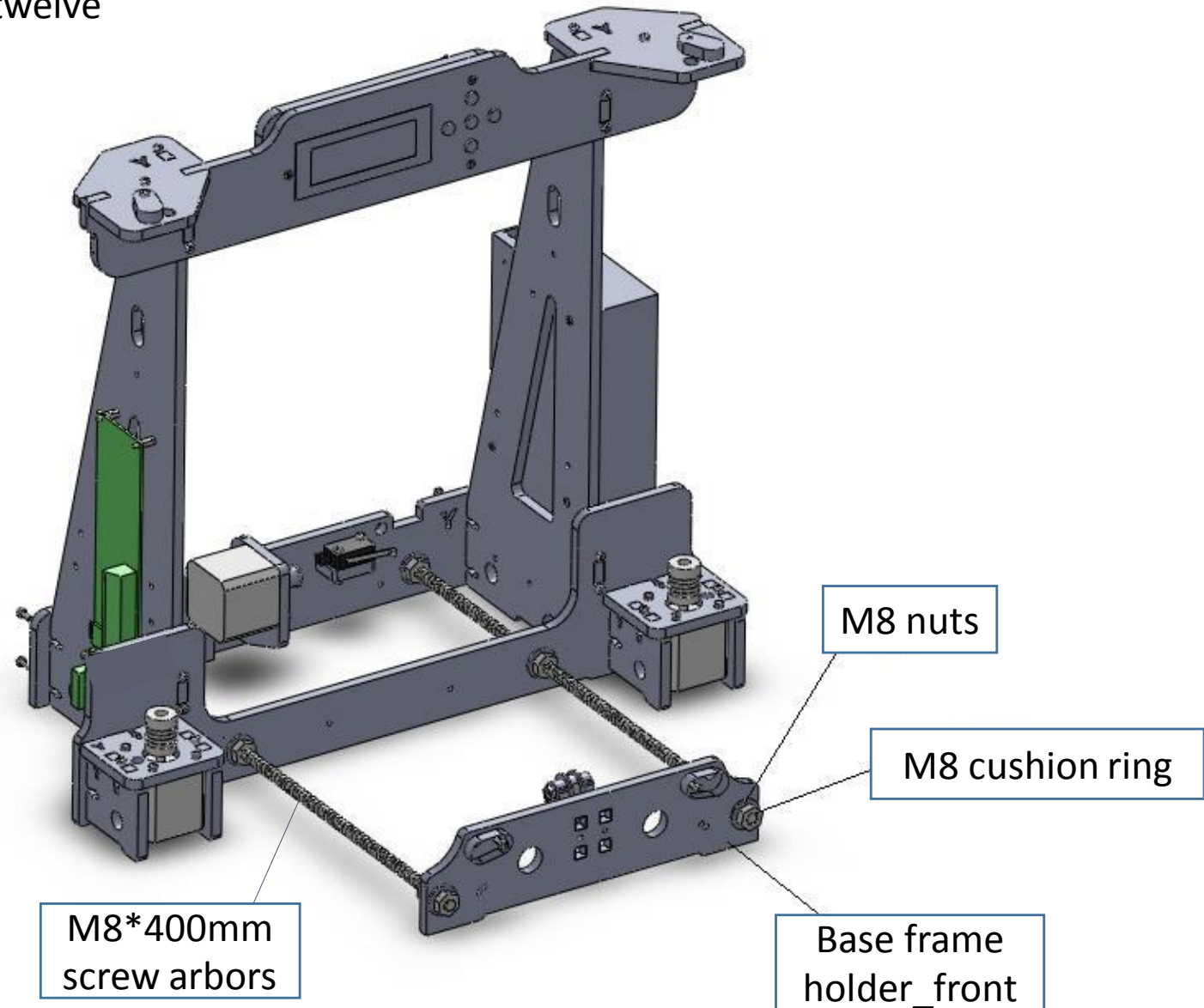
Step 13 Install Base frame holder_Back

- ◆ Put the **Base frame holder_back** back of **Side plate**, locking with four **M3*20mm screw**



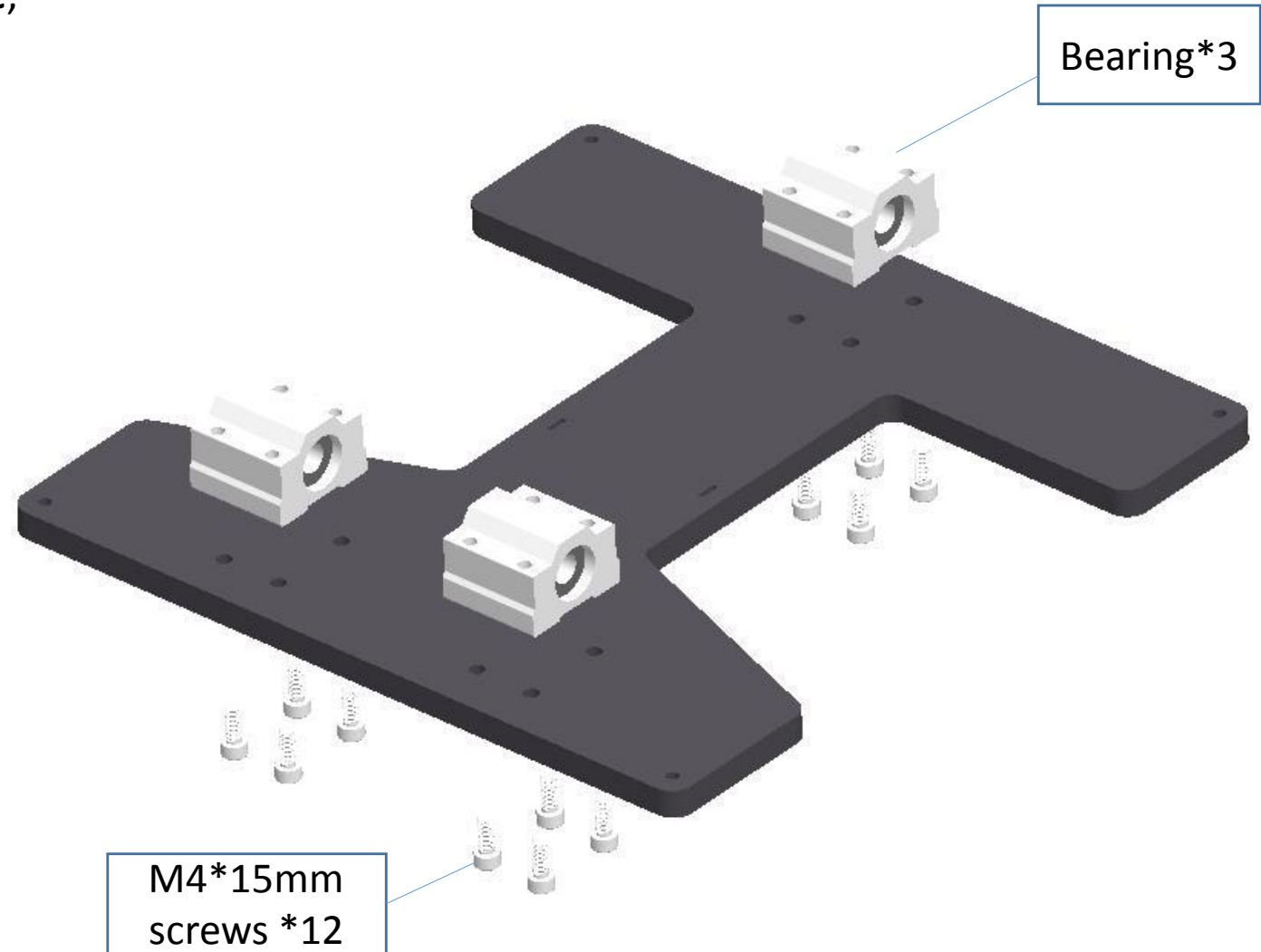
Step 14 Install Base Frame Holder_Front

- ◆ Through the **Frame Holder_Front & Back** by two **M8*400mm screw arbors**, locking with twelve **M8 Nuts & cushion ring**.



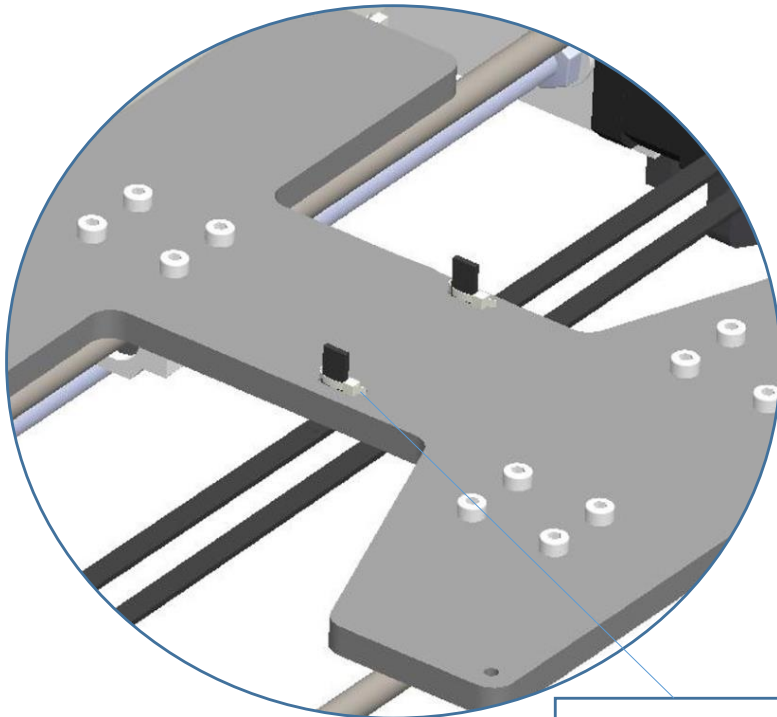
Step 15 Assemble Bed frame

- ◆ Place three **bearings** under the **bed frame**, locking with twelve **M4*15 screws**.

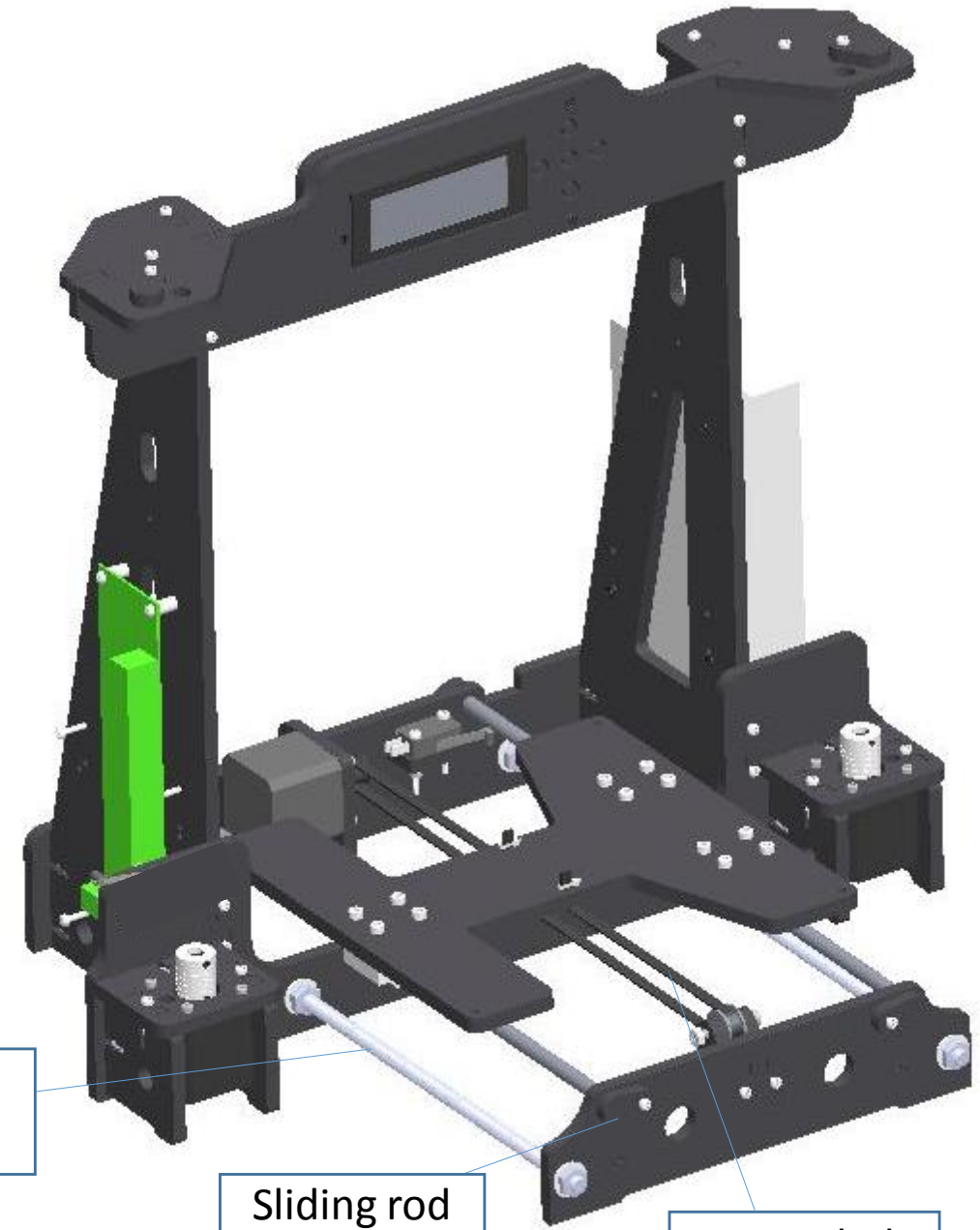


Step 16 Assemble Bed frame

- ◆ Place three **bearings** under the **bed frame**, locking with twelve **M4*15 screws**.
- ◆ Through the bed frame on the base by two of **M8*380mm Sliding rod**. Fix both end by Sliding rod restriction
- ◆ Tighten one end of the timing belt to the bed frame using a zip-ties. the other end through the Y-axis motor and belt pulley wheel on the base frame holder , Then tighten it to the bed frame using zip-ties as shown in the picture .



Nylon cable ties



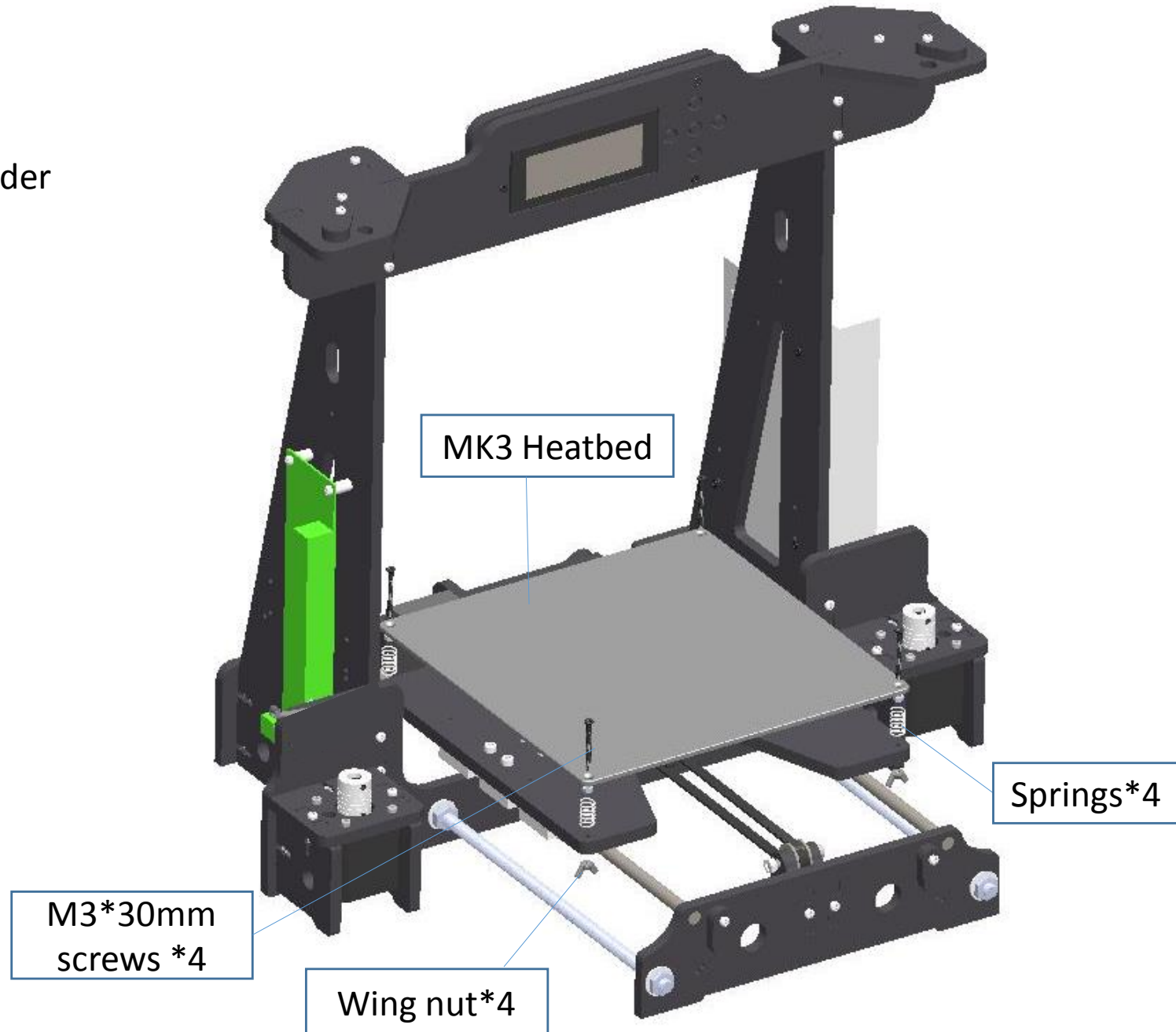
M8*380mm
sliding rod*2

Sliding rod
Restriction

Timing belt

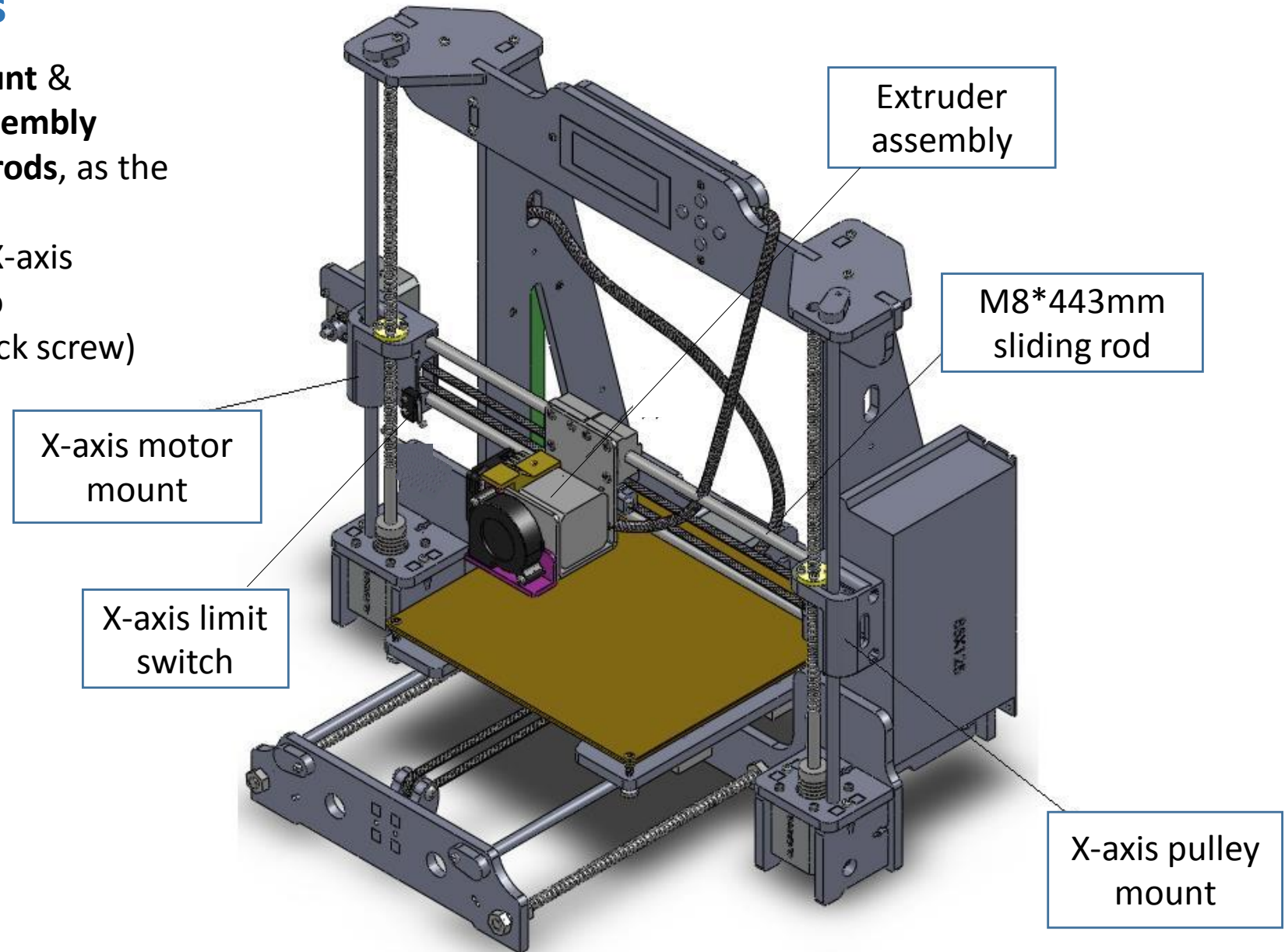
Step 17 Assemble Heatbed

- Place the MK3 heatbed on the bed frame use 4pcs springs between them, and then through 4pcs M3-30mm screws, top 4pcs wing nuts under the bed frame.



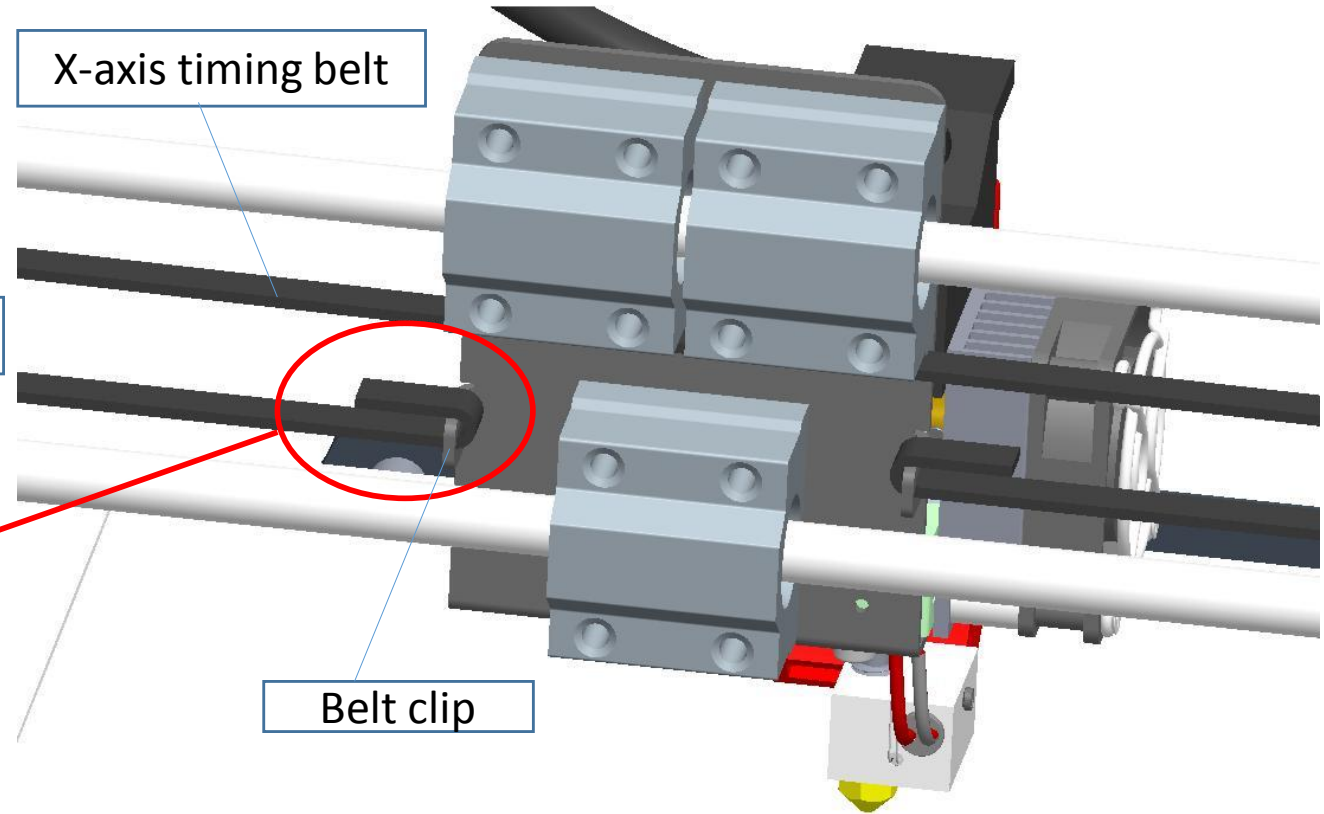
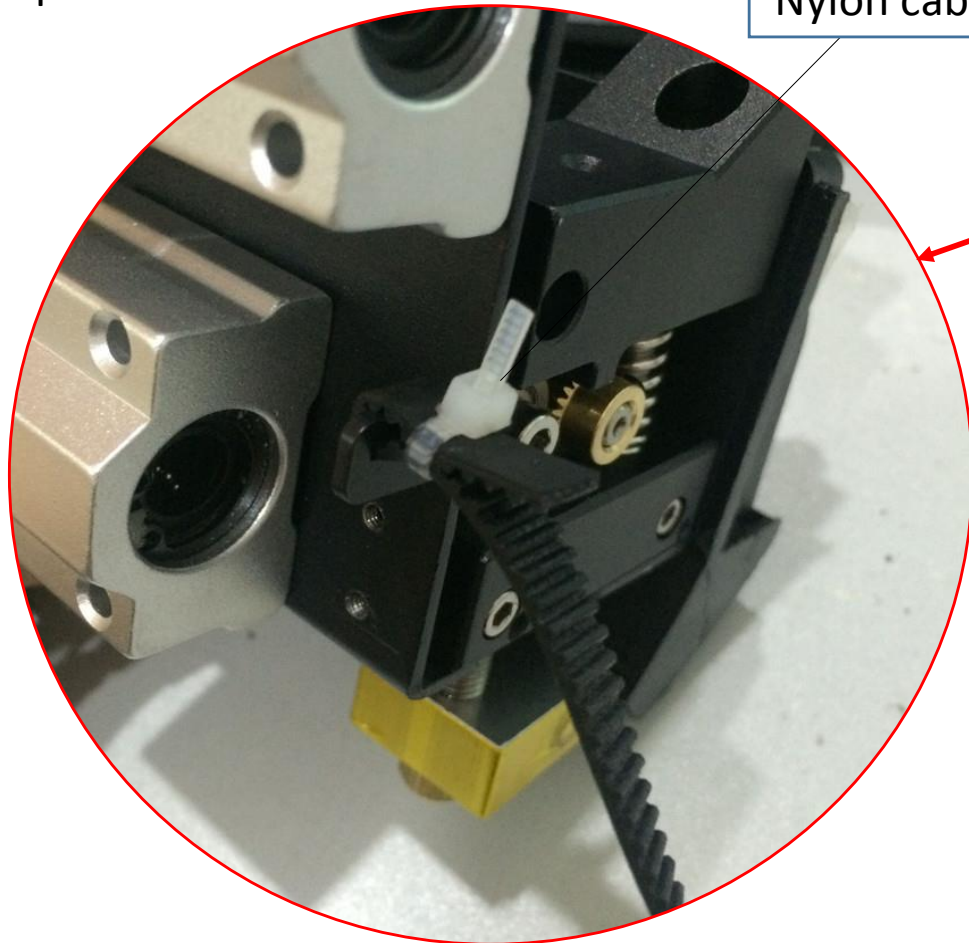
Step 18 Assemble X-axis

- ◆ Through the X-axis **motor mount** & **Pulley mount** and **Extruder assembly** using two **M8*443mm sliding rods**, as the picture.
- ◆ Put **X-axis limit switch** on the X-axis motor mount, locking with two **M2.5*10mm screws** (small black screw)



Step 19 Instal X-axis Timing Belt

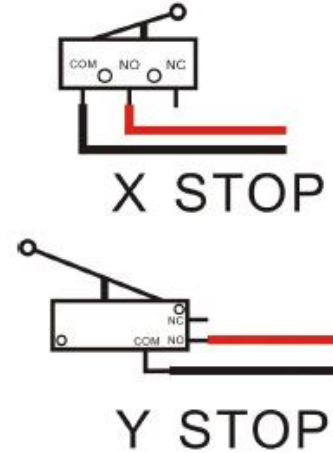
- ◆ Tighten one end of the **Timing Belt** to the **Belt clip** with **Nylon cable ties**. The other end through the X-axis pulley & motor , then tighten another end of the belt to the another **Belt clip** with **Nylon cable ties** . as picture below



Step 20 Control Board Wiring Diagram

◆ The method of connecting wire is as picture

!NOTE!: The wires connected to POWER SUPPLY and HETBED must be AWG14 or thicker one.



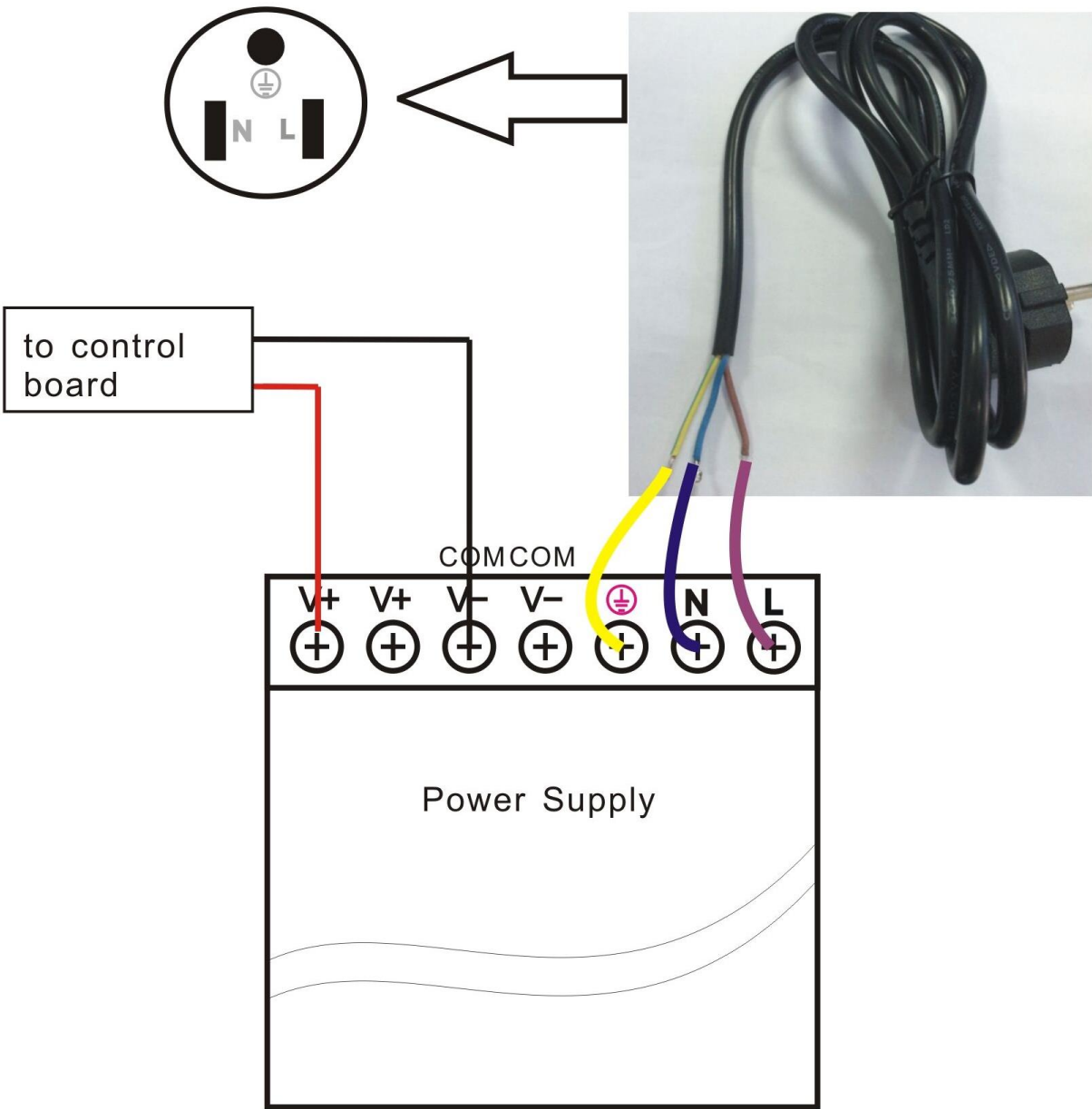
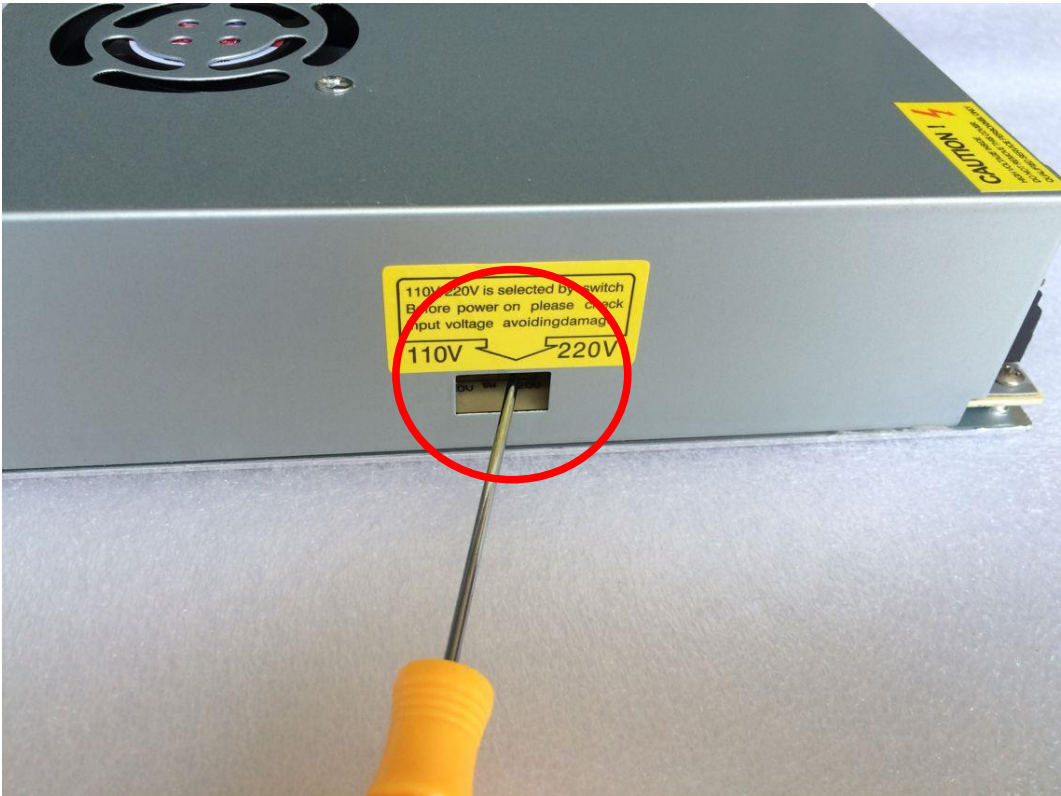
PS: For auto level 3D printer, there only 2pcs limit switches , one for X-axis and one for Y-axis, the Position sensor is for Z stop and auto leveling .



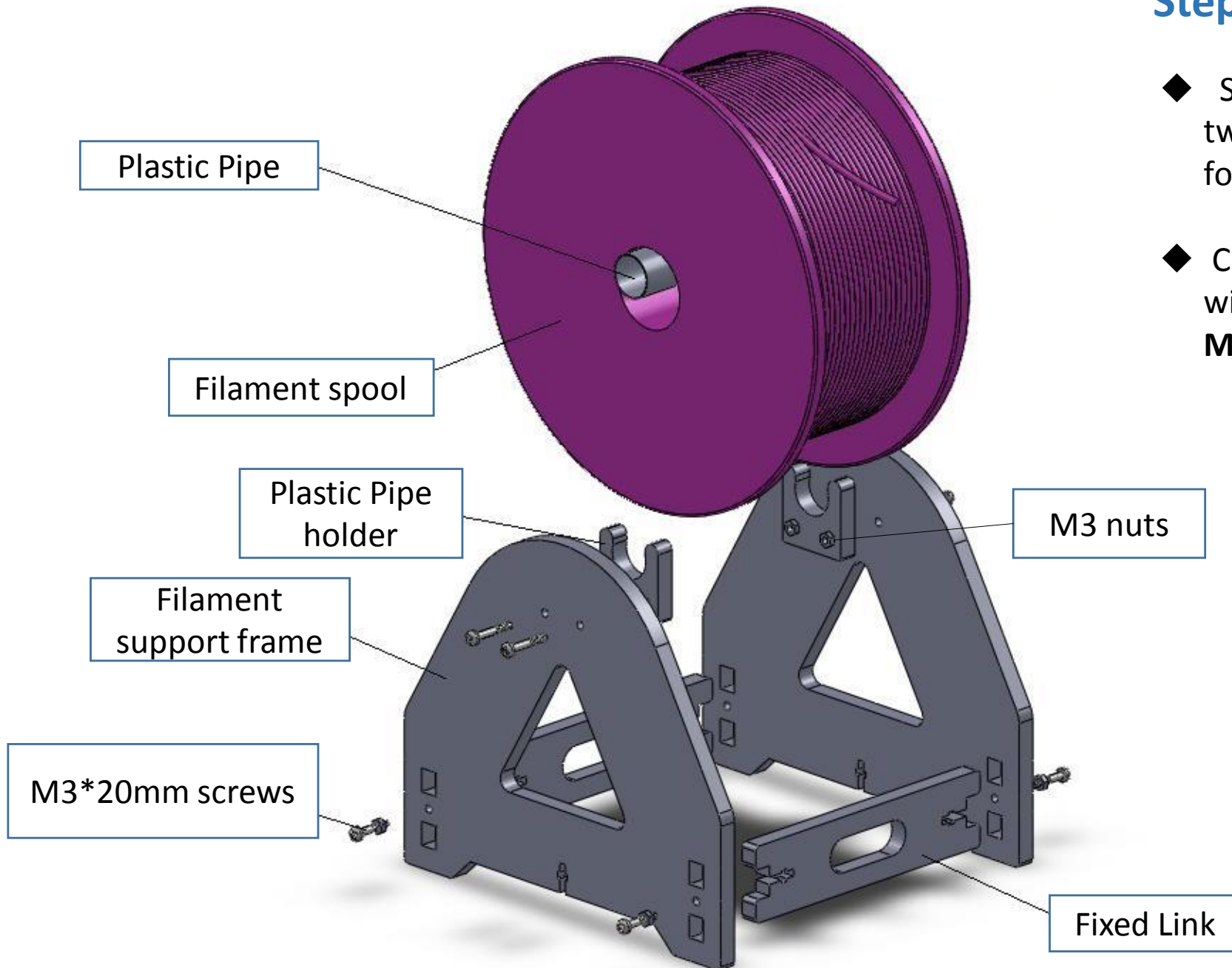
Step 21 AC Power Connector Wiring Diagram

◆ Connect Power cable as the picture (Right)

Note: There are different voltages in different country. Please select the appropriate voltage by switch before power on. As the picture below.



Step 22 Assemble Filament Feeder



- ◆ Separately put two **Plastic Pipe holder** on two **Filament support frame**, locking with four **M3*20mm head screws & nuts**.
- ◆ Connect the two **Filament support frames** with two **Fixed links**, locking with four **M3*20mm screws & nuts**

Installation Finished

