

Afinibot 3D PRINTER A3

INSTALLATION GUIDE V.04

Classification Of Screws



M3 nuts 50pcs



M8 nuts 12pcs



M8 Cushion ring
12pcs



M3*20mm Round head
screws 42pcs



M3*10mm inner
hexagon screws 15pcs



M3*14mm Flat-head
screws 7pcs



M2.5*10mm black
screws 2pcs



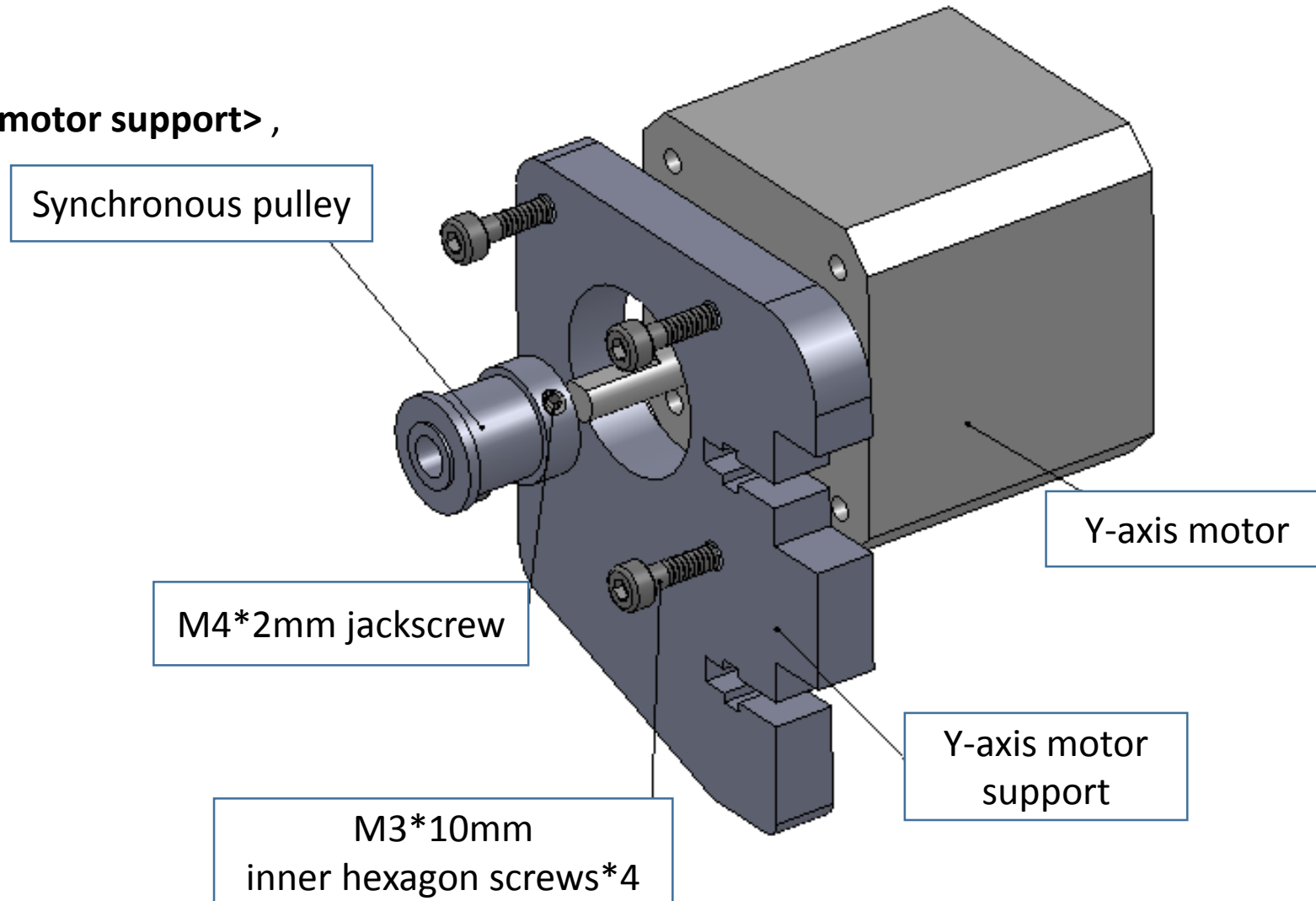
M3*30mm Flat-head
screws 4pcs



Plastic Pillars 4pcs

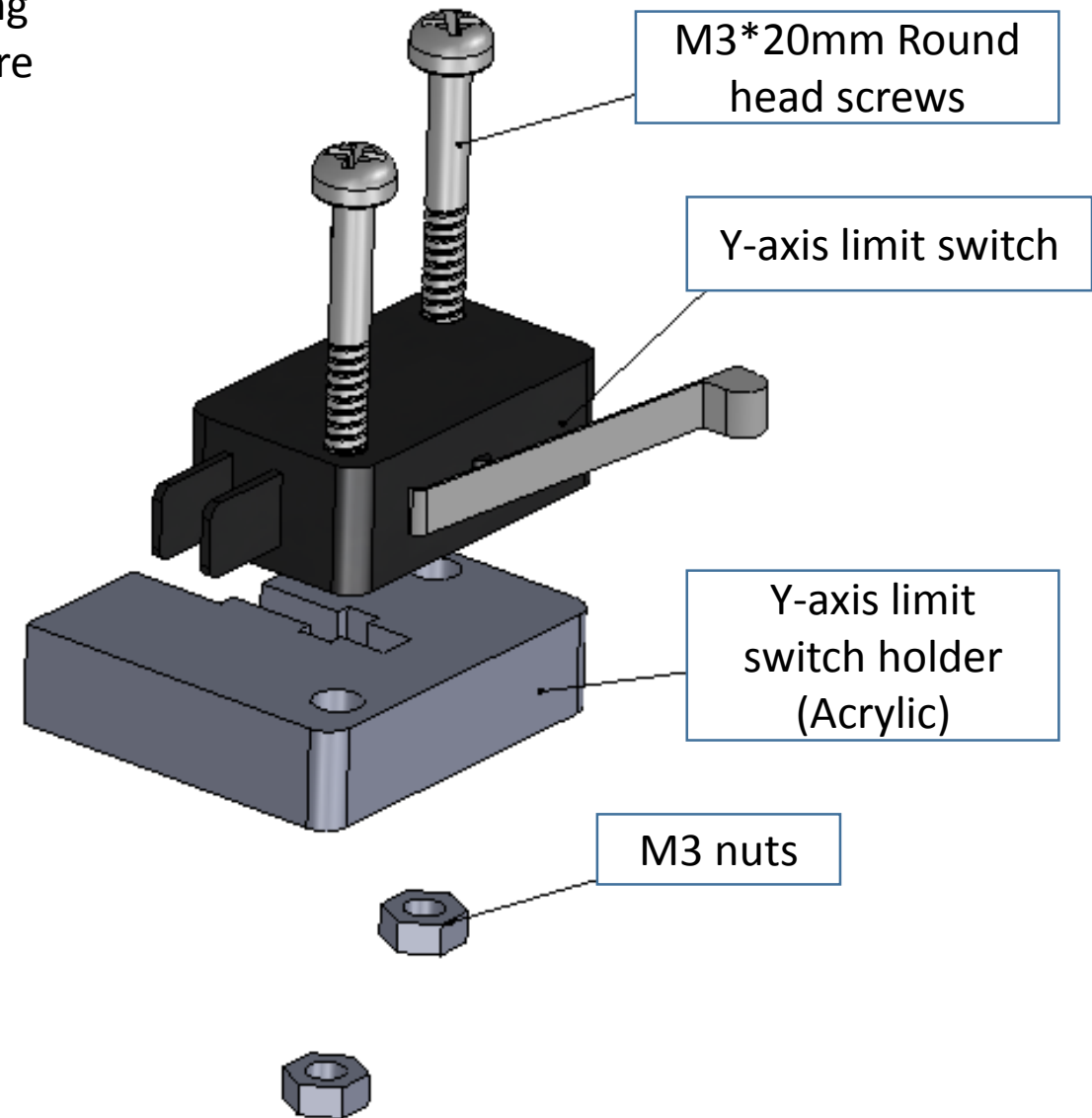
Step 1 Assemble Y-axis Motor

- ◆ Fit the **synchronous pulley** on the motor, Locking with **M4*2mm jackscrew**.
- ◆ As the picture, Put Y-axis motor on **<Y-axis motor support>** , locking with Four **M3*10mm screws**.



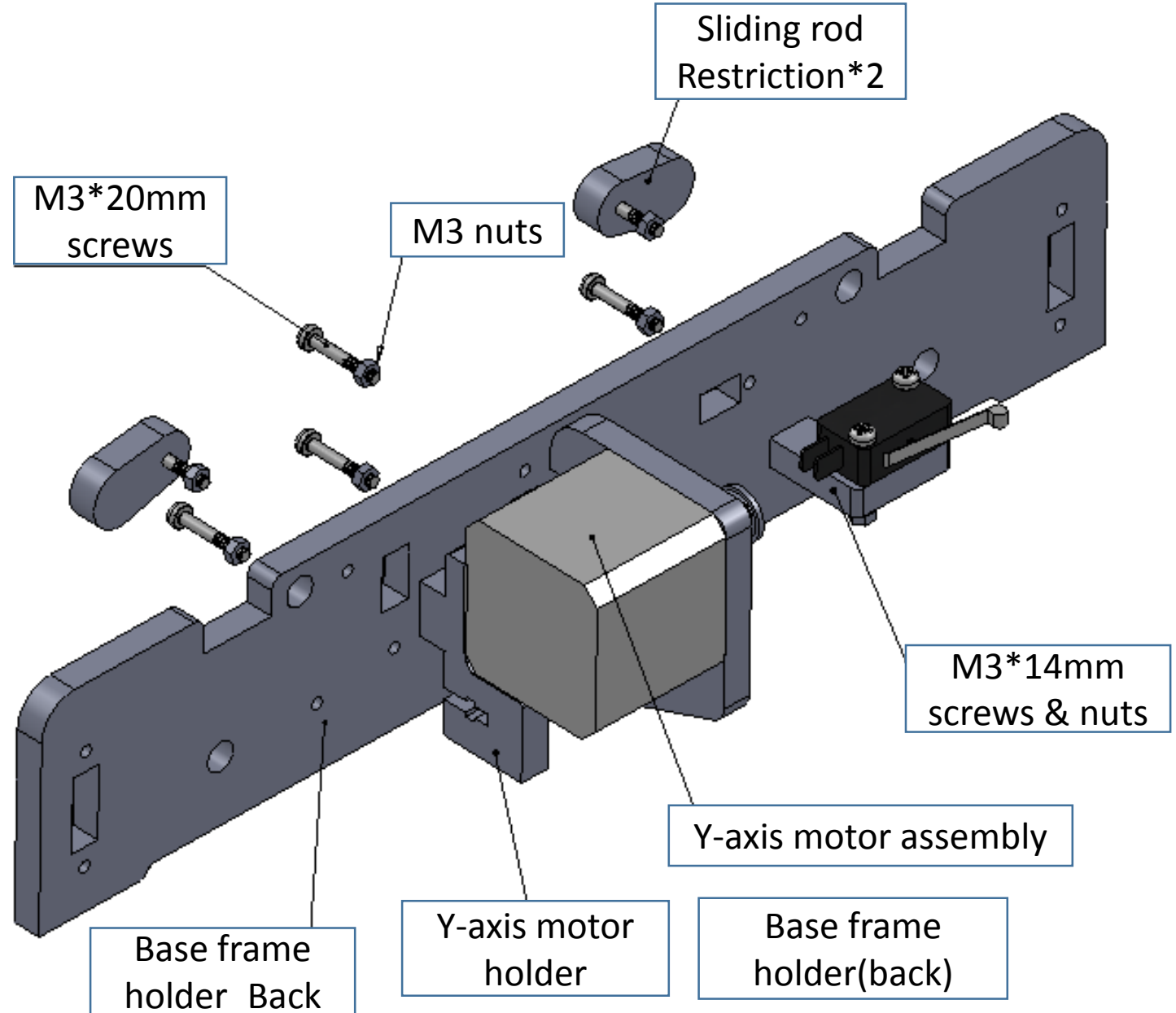
Step 2 Assemble Y-axis Limit switch

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



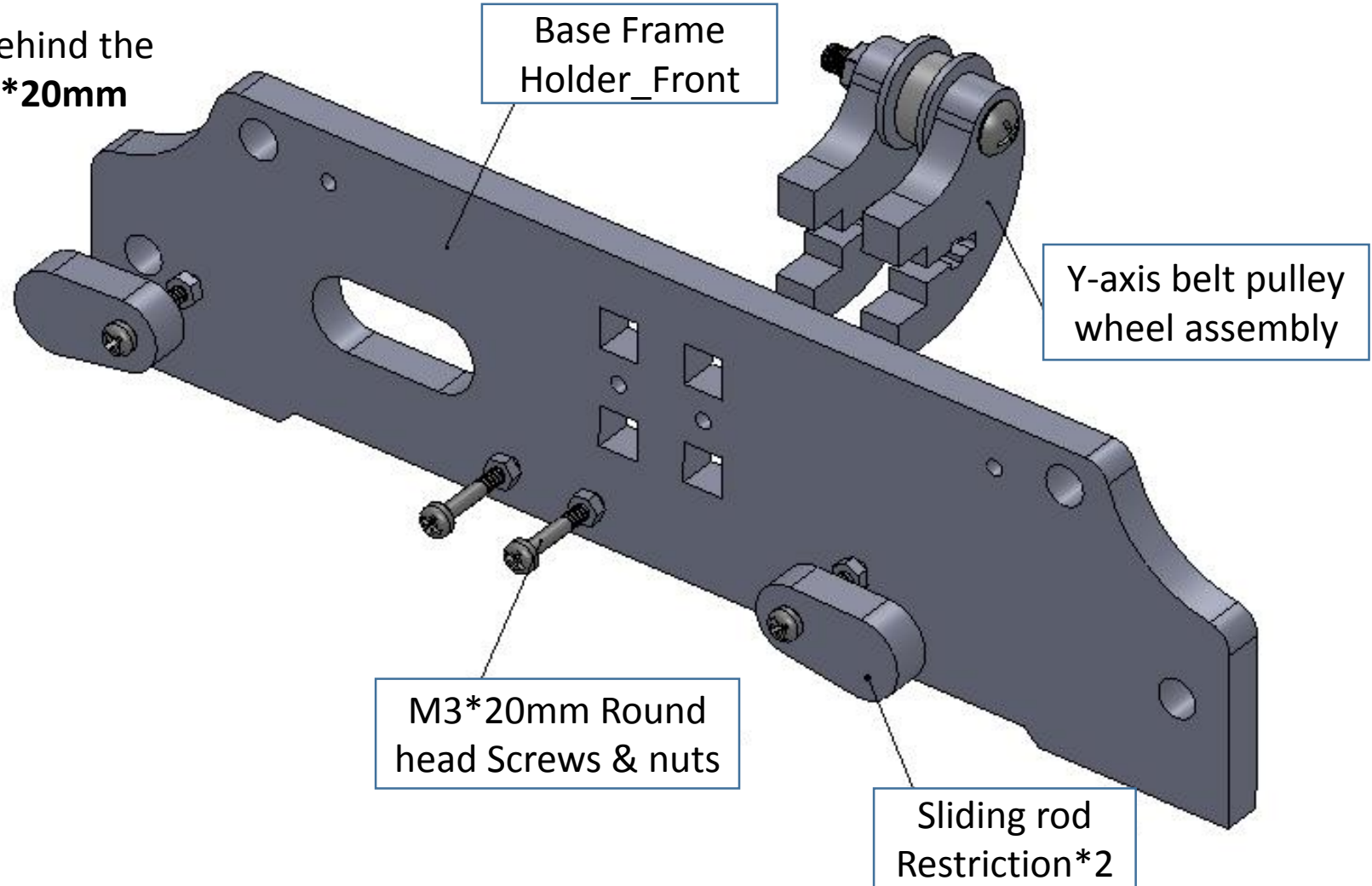
Step 3 Assemble Base Frame Holder_Back

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



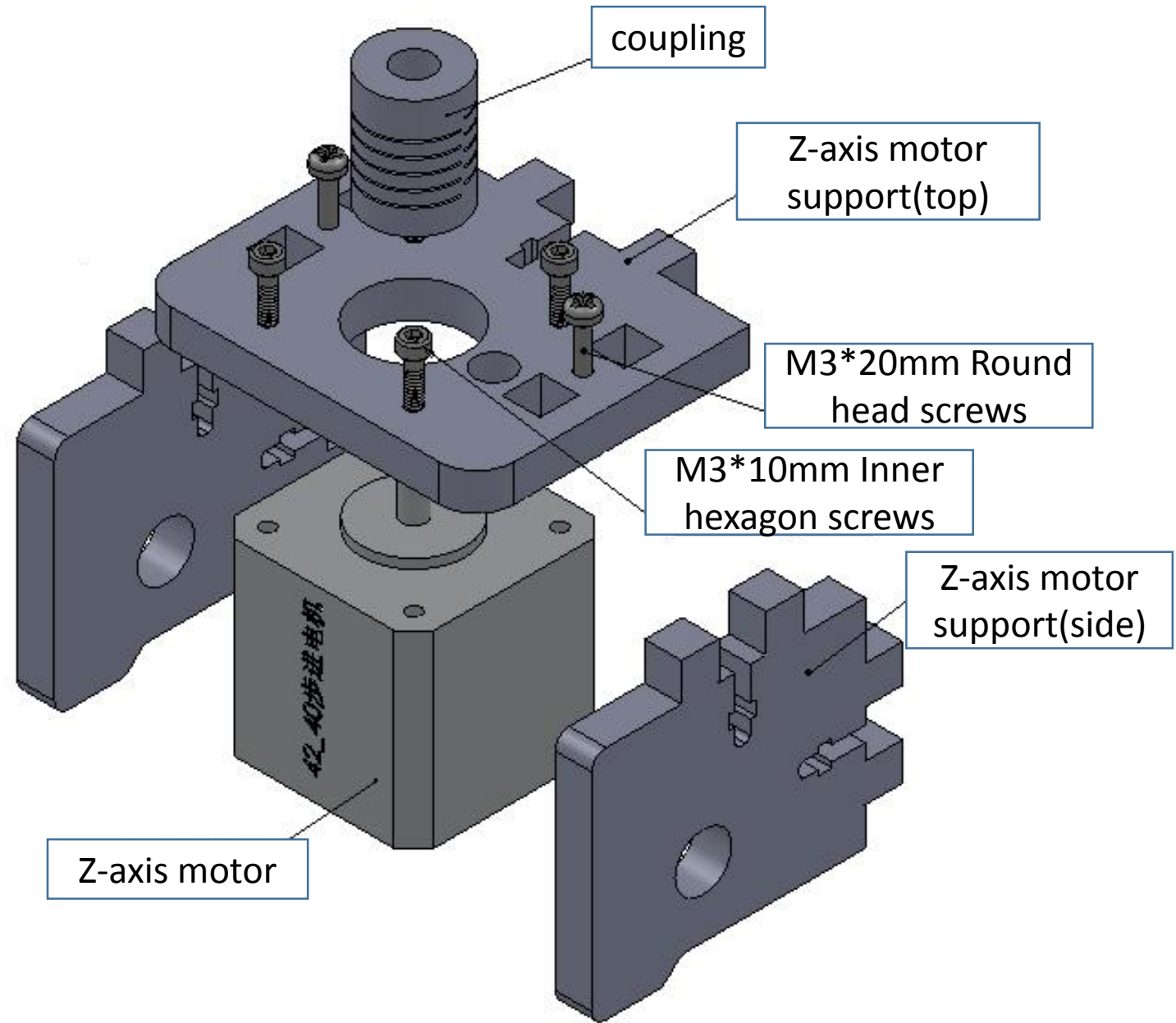
Step 4 Assemble Base Frame Holder_Front

- ◆ 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 Round head screws & nuts**.



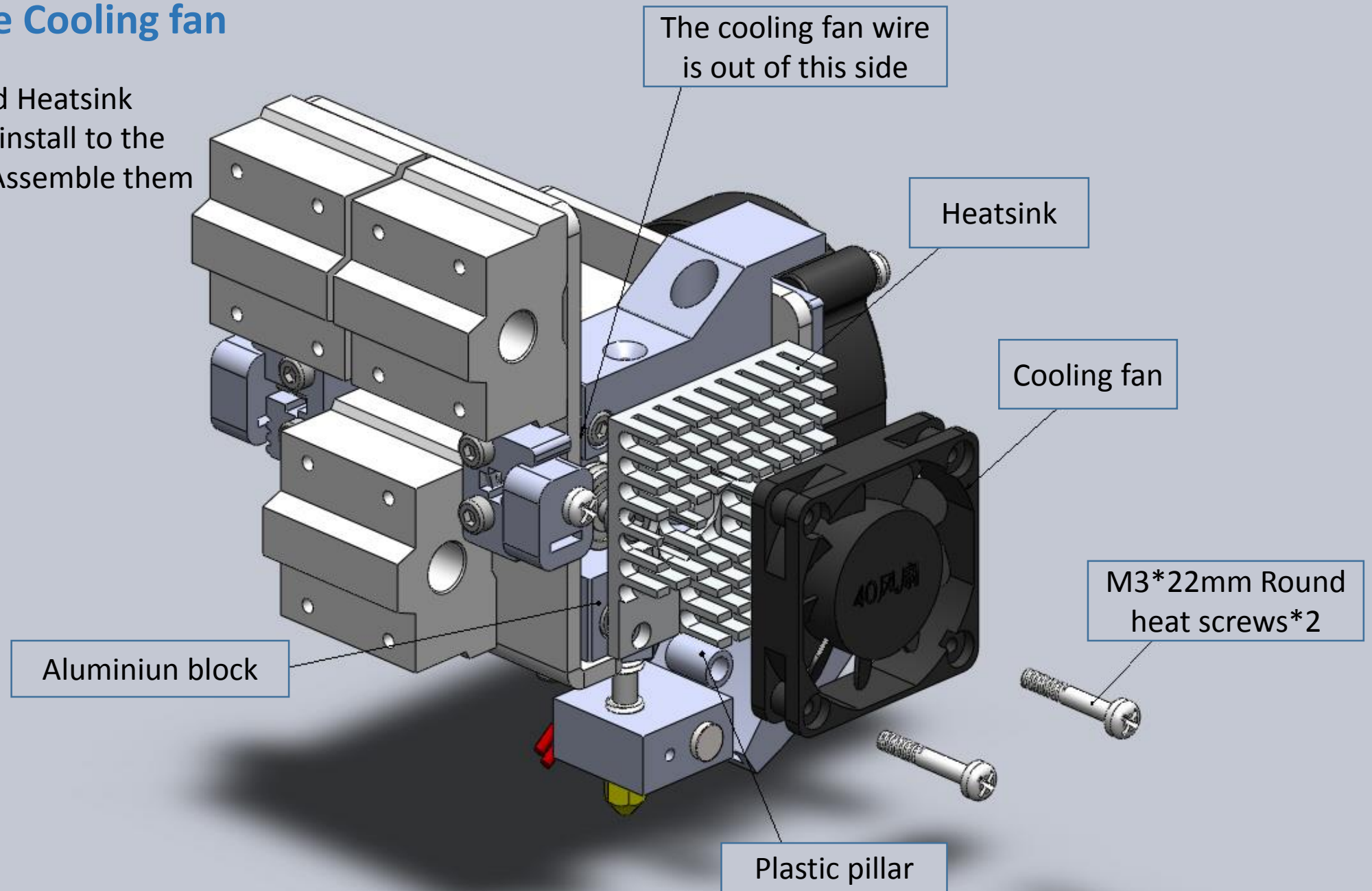
Step 5 Assemble Z-axis motor

- ◆ 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 Round head screws & nuts**.
- ◆ The cable of Z-axis motor is back of the Z-axis motor support. Locking **Z-axis motor** with four **M3*10mm Inner hexagon screws**.
- ◆ Put the **coupling** on the motor, locking the jackscrews.
- ◆ Another Z-axis motor is the same assembly.



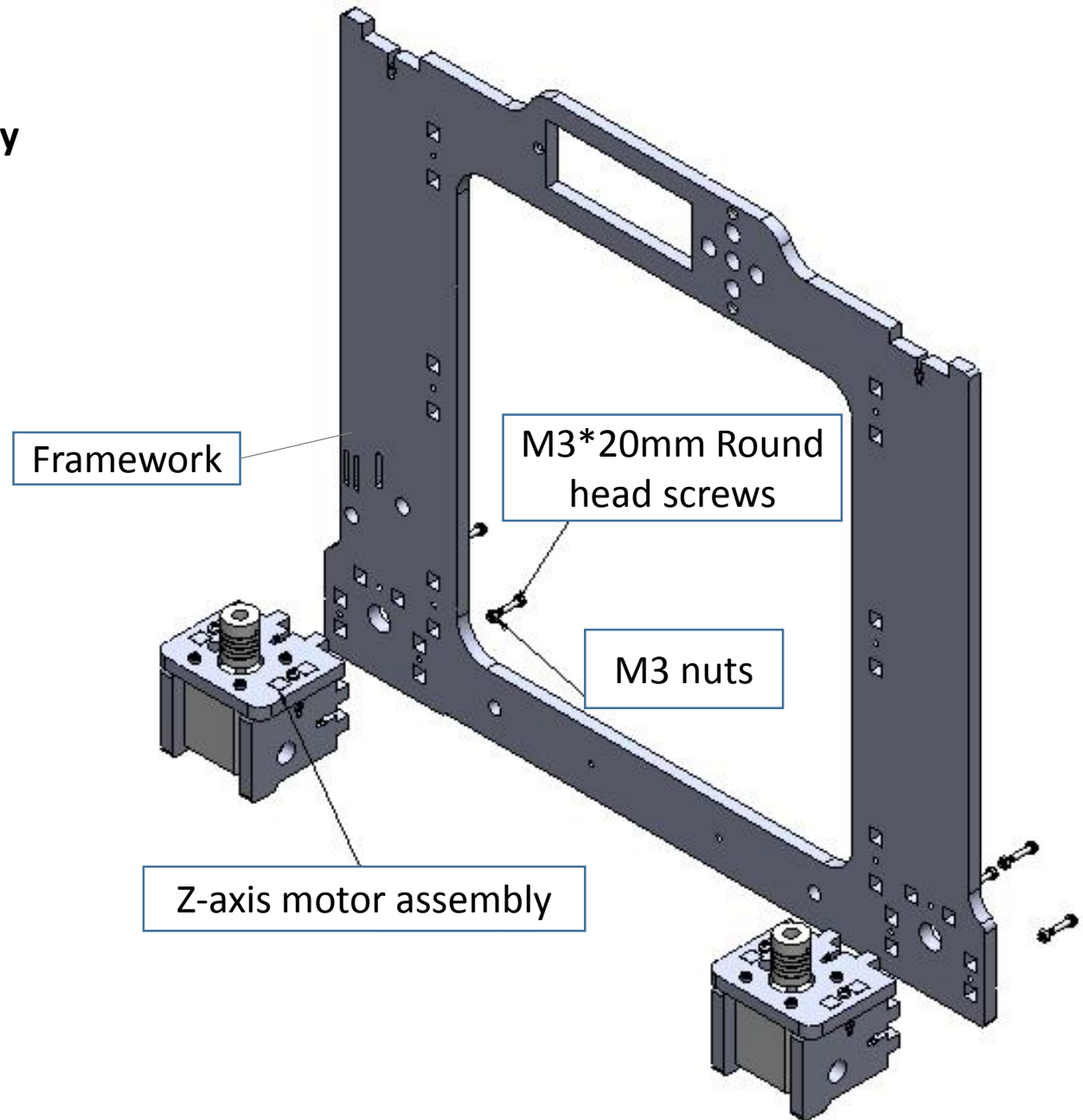
Step 6 Assemble Cooling fan

- ◆ Put Cooling fan and Heatsink together and then install to the Aluminium block . Assemble them as picture .



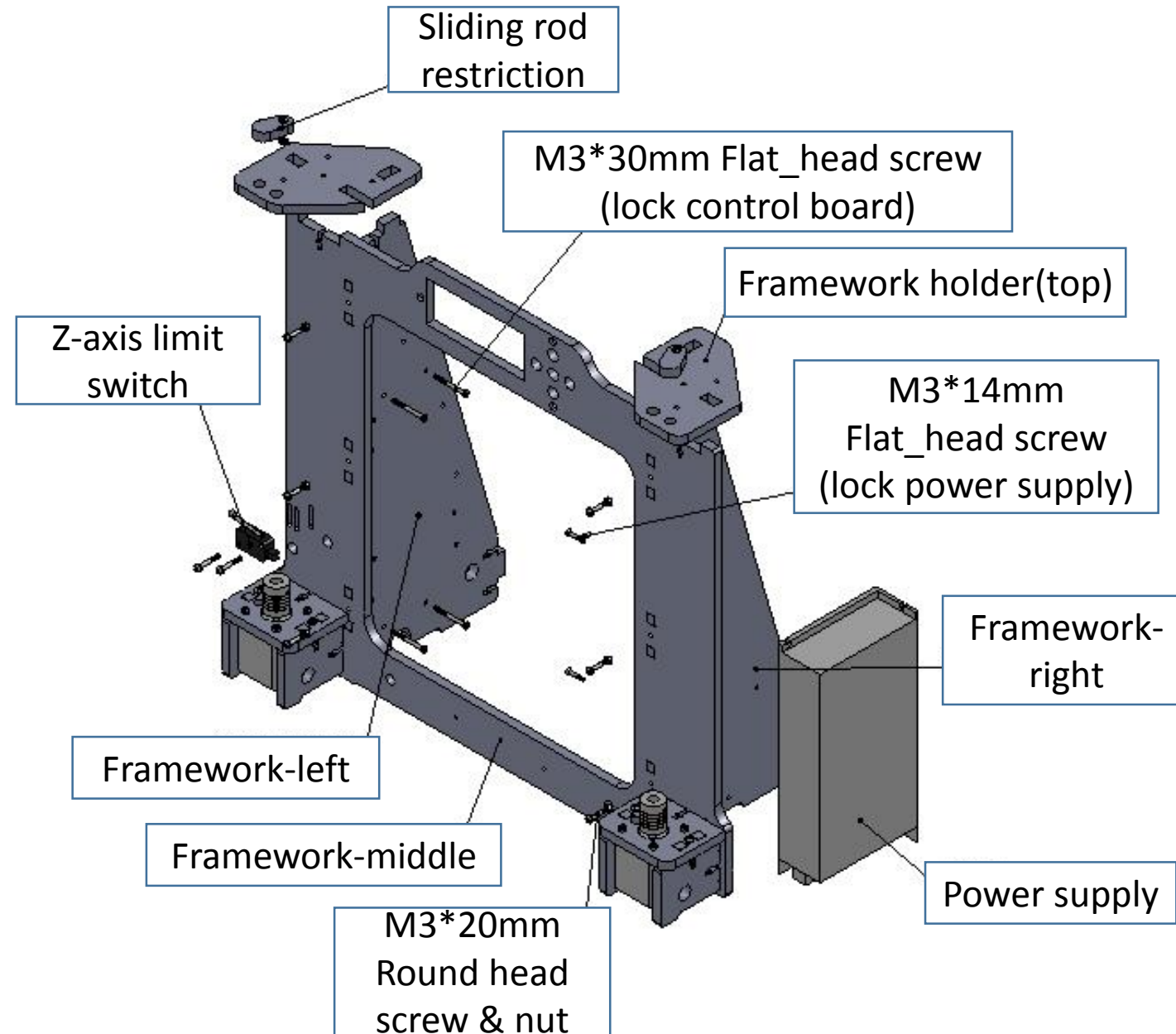
Step 7 Assemble Z-axis

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



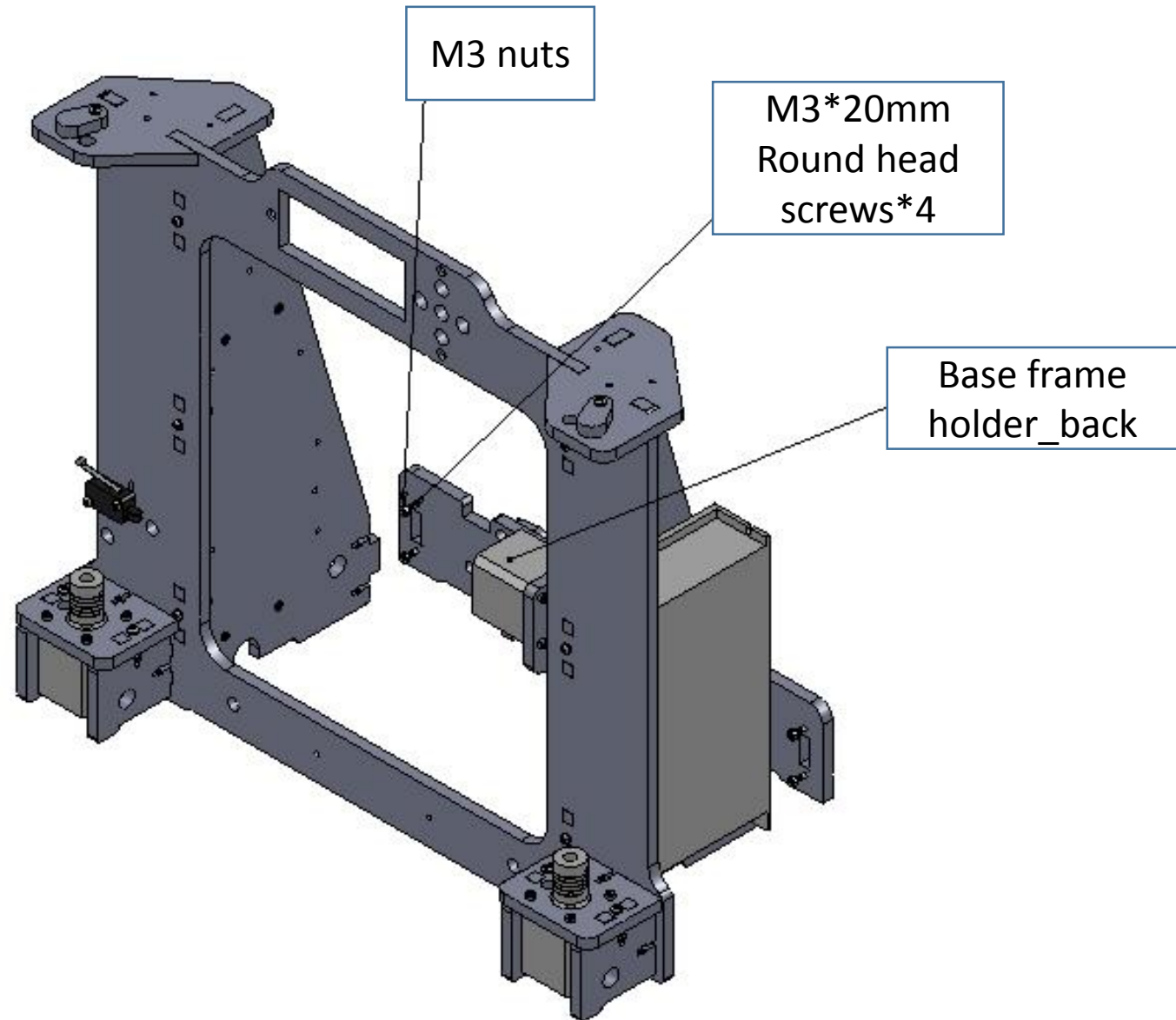
Step 8 Assemble Framework

- ◆ Put **Framework-middle** and **Framework-Right**, **Framework-left** together as the picture. locking with Six **M3*20mm Round head screws & nuts**.
- ◆ Put two of **Frame holder (top)** on the top of the frameworks, locking with four **M3*20mm Round head screws & nuts**.
- ◆ Put two **sliding rod restriction** on the top of left and right sides. Locking with one **M3*20mm Round head screw & nut** each.
- ◆ Put the **Z-axis limit switch** on the left side of framework(middle). Locking with two **M3*20mm Round head screws and nuts**.
- ◆ Put **Power supply** on the right of framework-right, locking with three **M3*14mm Flat_head screws and nuts**.



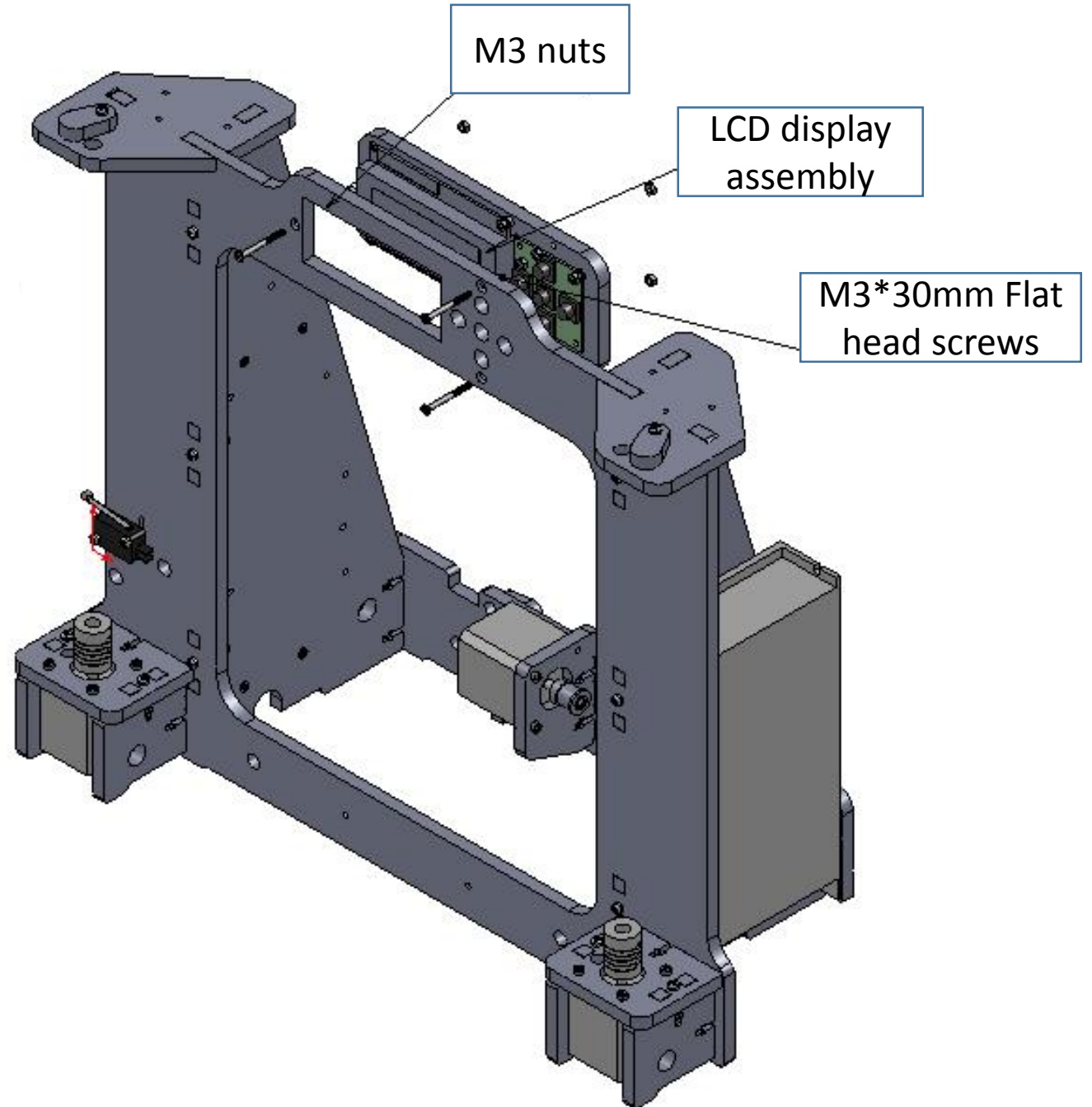
Step 9 Install Base frame holder_Back

- ◆ Put the Base frame holder_back with Framework_Right & Left together, locking with four M3*20mm Round head screw



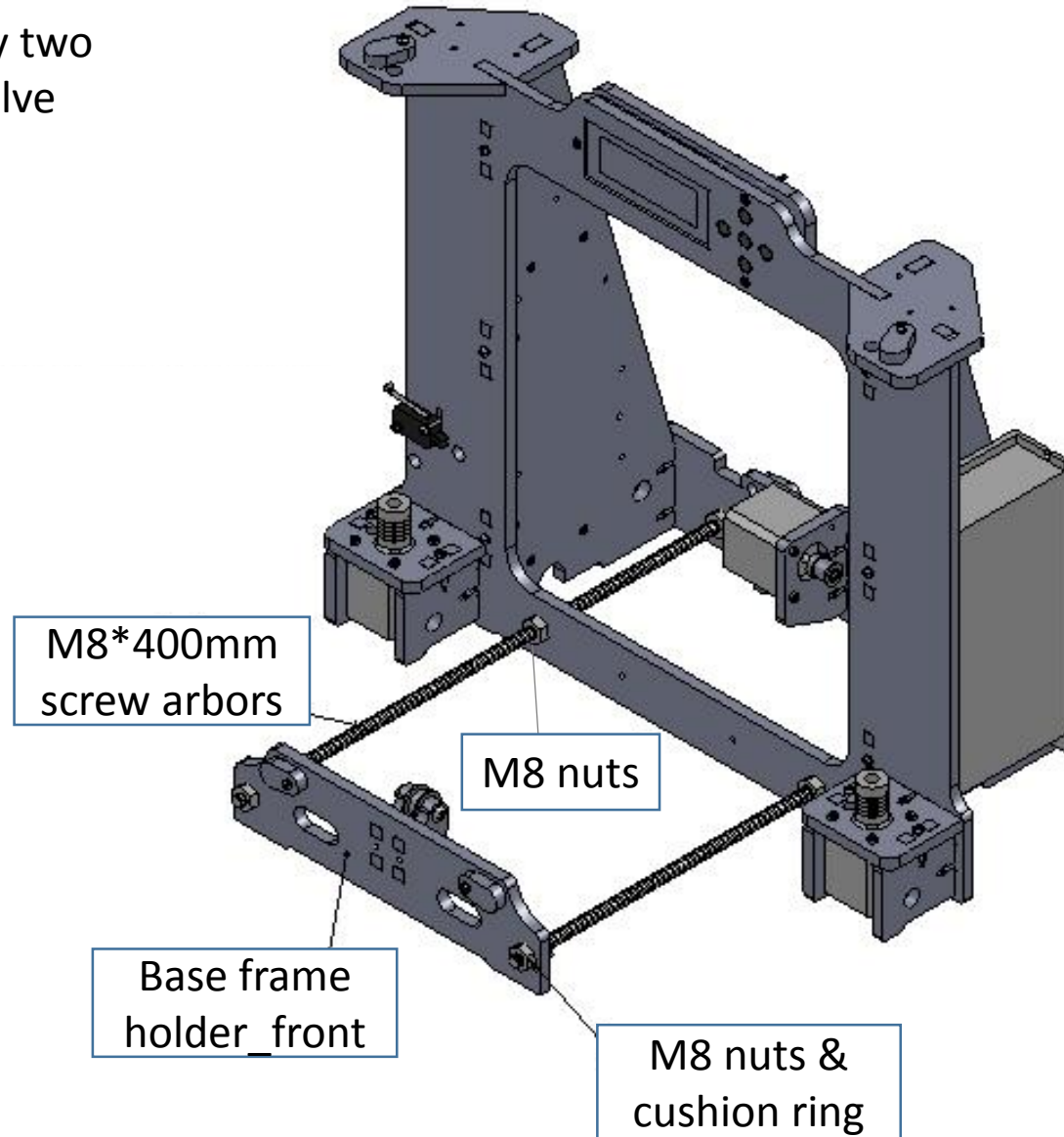
Step 10 Install LCD display

- ◆ Put the **LCD display** on the top of the framework , locking with three **M3*30mm flat_head screws &nuts**



Step 11 Install Base Frame Holder_Front

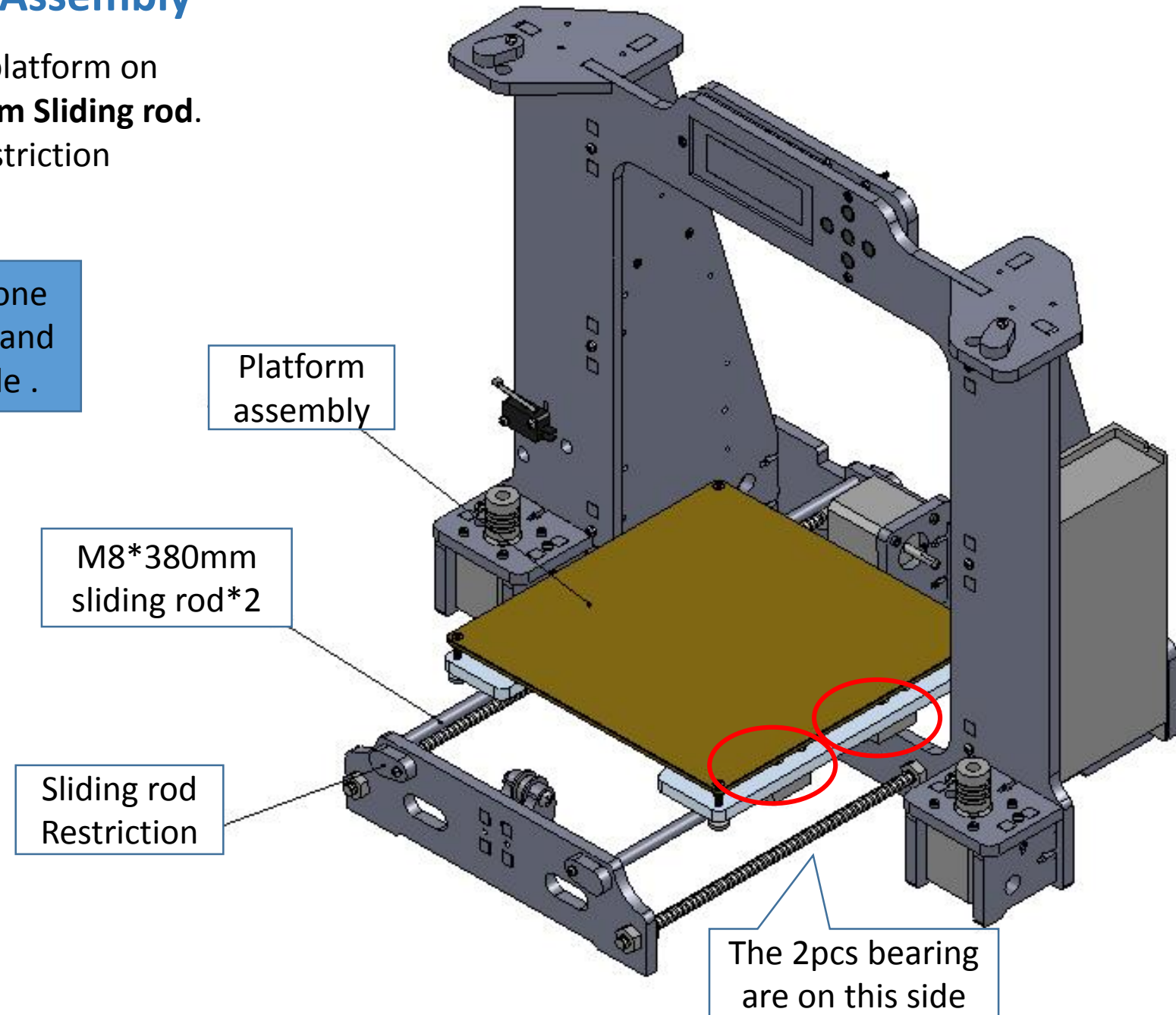
- ◆ Through the **Frame Holder_Front & Back** by two **M8*400mm screw arbors**, locking with twelve **M8 Nuts & cushion ring**.



Step 12 Instal Platform Assembly

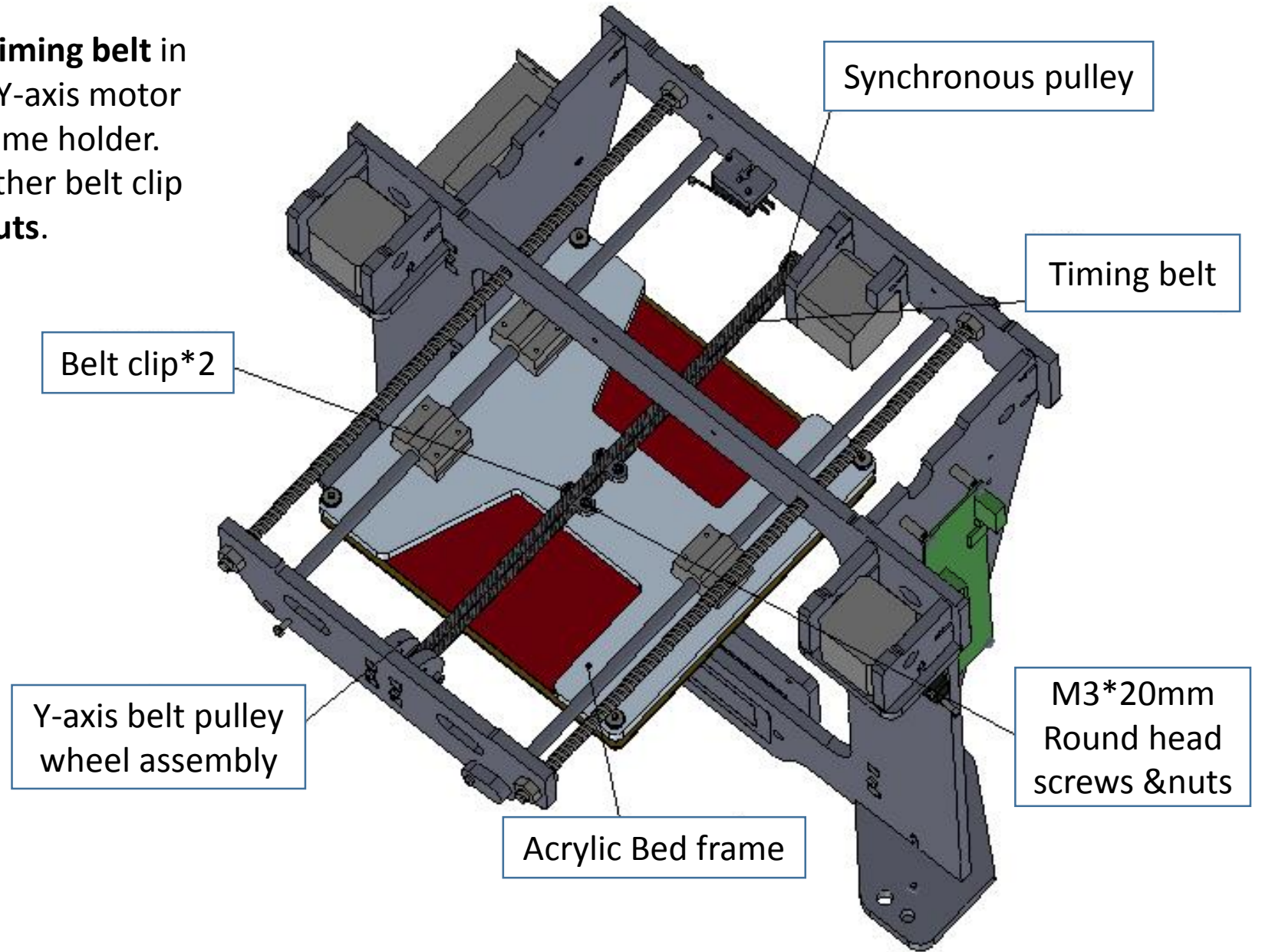
- ◆ As the picture , through the platform on the base by two of **M8*380mm Sliding rod**. Fix both end by Sliding rod restriction

Attention: Put the 2pcs bearing one the hotbed are on the right side , and put the hotbed wires on back side .



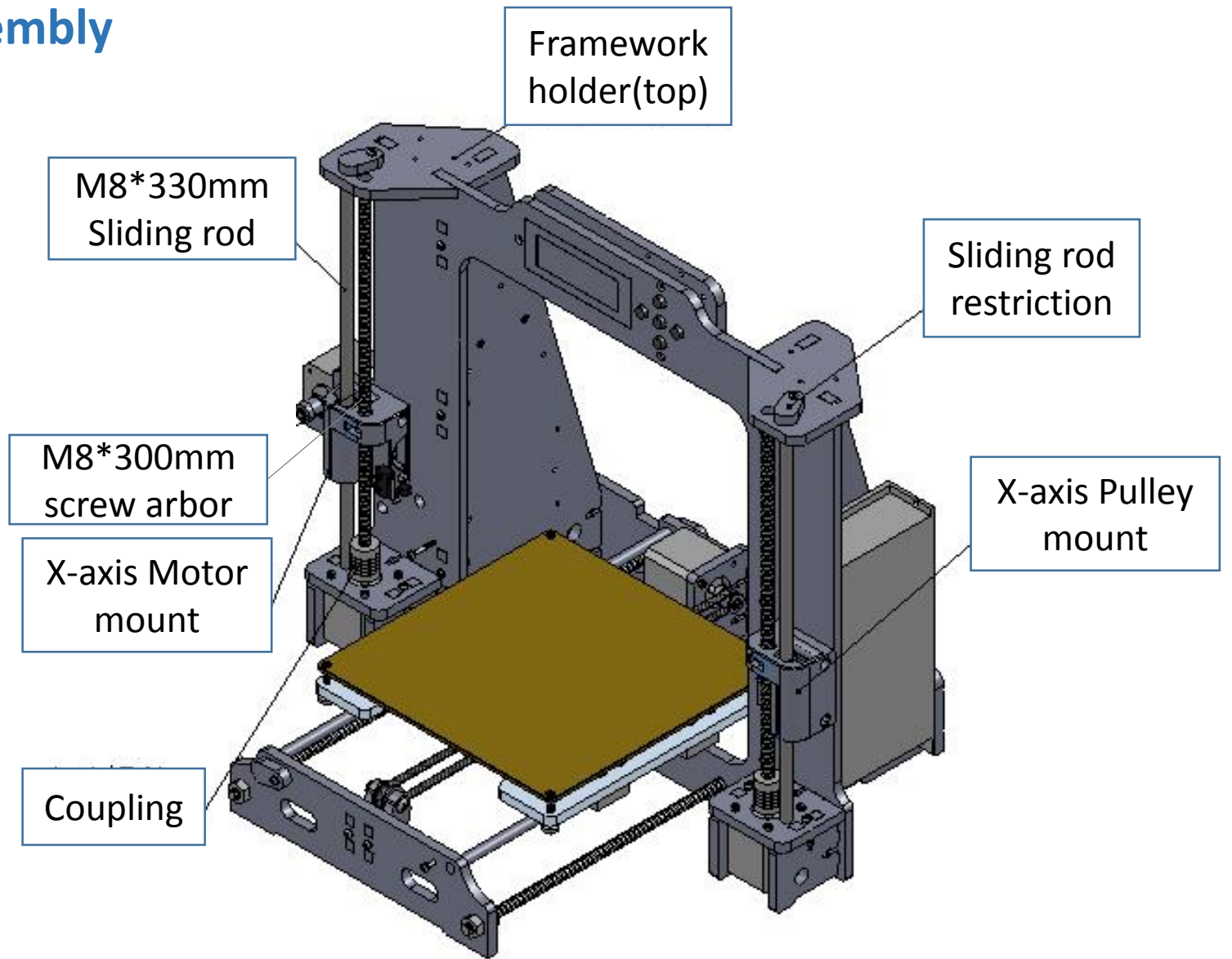
Step 13 Instal Y-axis Timing belt

- ◆ As the picture, Lock one end of the **timing belt** in **belt clip**, the other end through the Y-axis motor and belt pulley wheel on the base frame holder. Then tense the belt and lock in the other belt clip with **M3*20 Round head screws & nuts**.



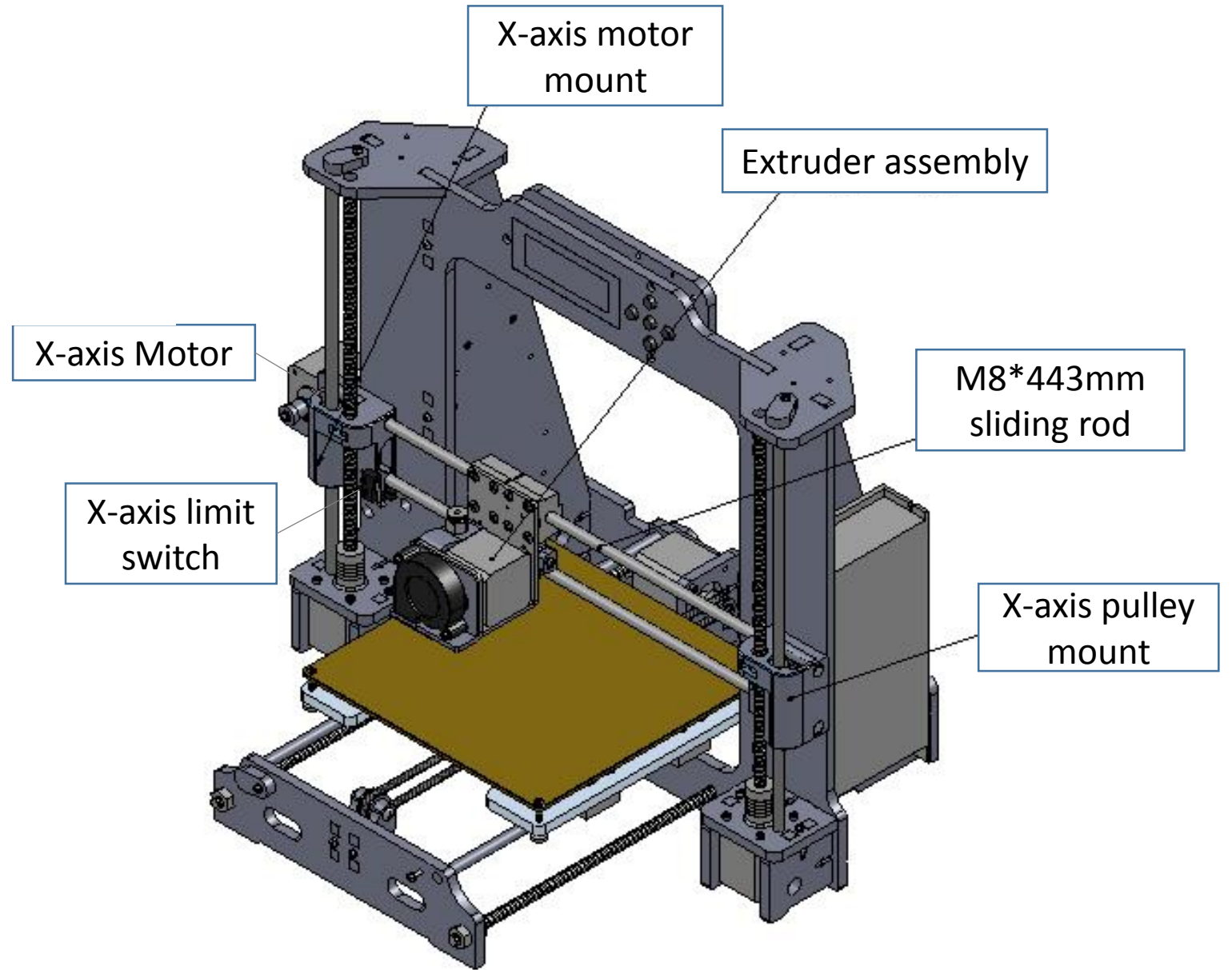
Step 14 Instal X-axis Extruder Assembly

- ◆ Put **X-axis motor** on **X-axis motor mount**.
Locking with three **M3*10mm Inner hexagon screws**.
- ◆ Through the **X-axis motor mount & pulley mount** by **M8*330mm sliding rod** & **M8*300 screw arbor**. As picture
- ◆ Limit the top of **sliding rod** with **sliding rod restriction**, connect the bottom of **screw arbors** with **couplings**, locking jackscrew in coupling.



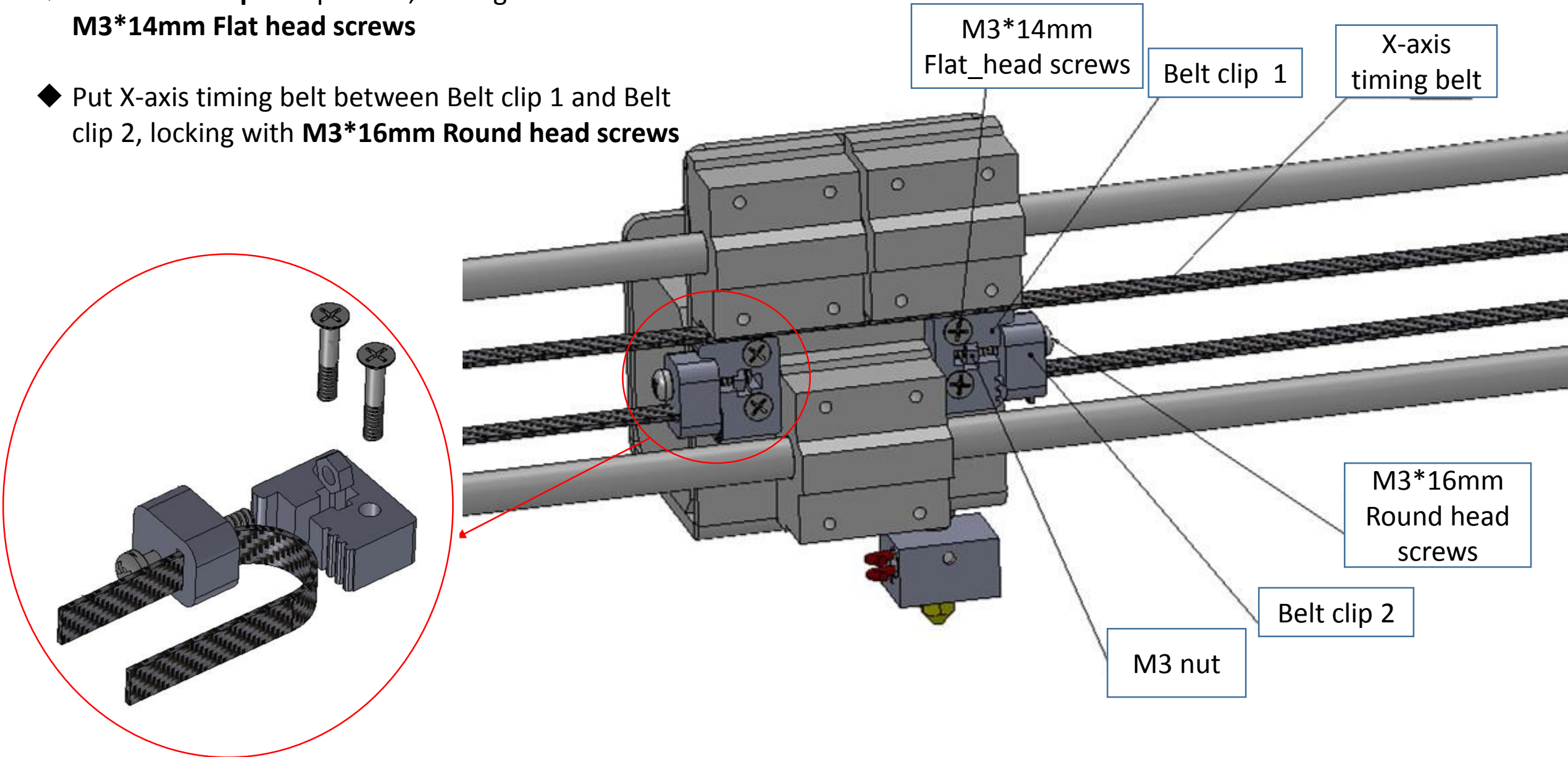
Step 15 Assemble X-axis

- ◆ Through the X-axis motor mount mount& pulley mount and **Extruder assembly** using two **M8*443mm sliding rods**, as the picture.
- ◆ Put **X-axis Motor** on **X-axis motor mount**, locking with three **M3*10mm inner hexagon screws**
- ◆ Put **X-axis limit switch** on the X-axis motor mount, locking with two **M2.5*10mm screws** (small black screw)



Step 16 Instal X-axis Timing Belt

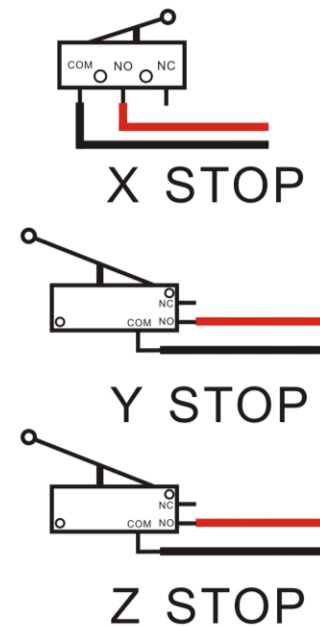
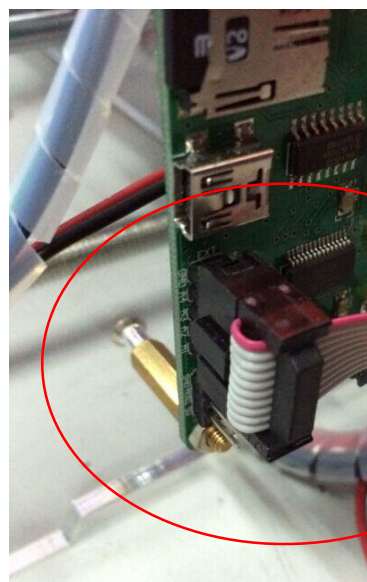
- ◆ Install **Belt clip 1** as picture , locking with **M3*14mm Flat head screws**
- ◆ Put X-axis timing belt between Belt clip 1 and Belt clip 2, locking with **M3*16mm Round head screws**



Step 17 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.



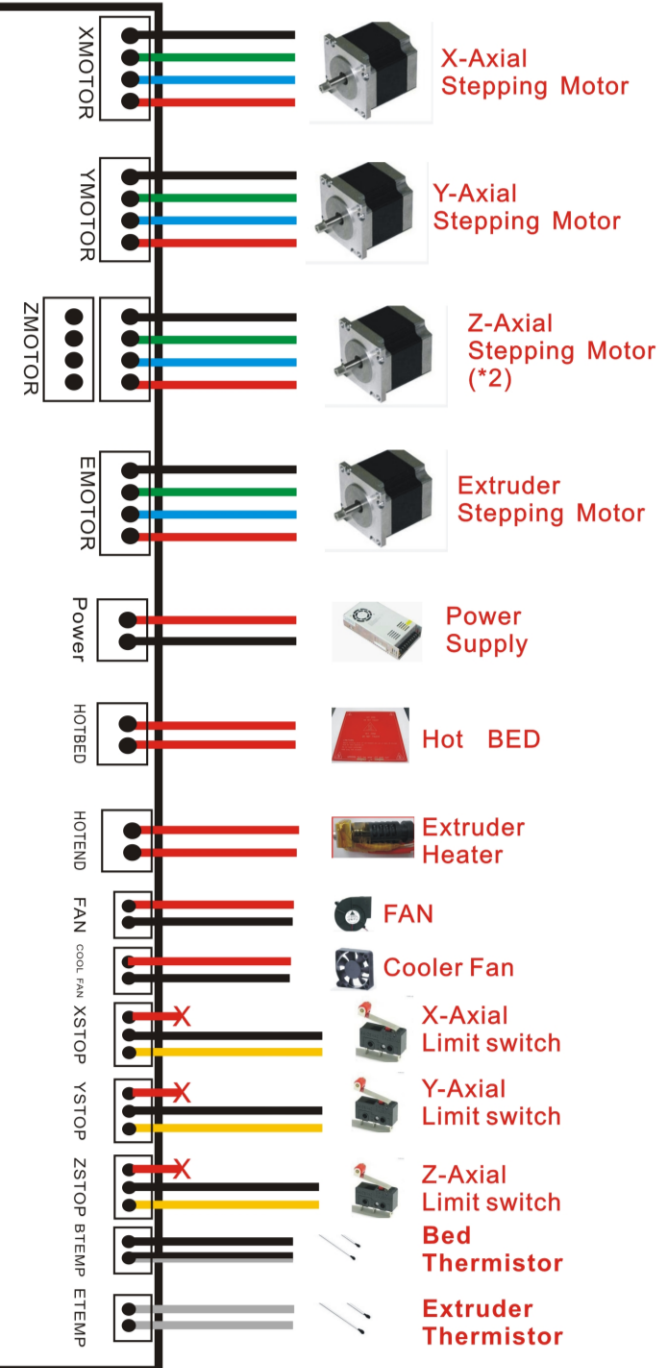
Micro SD Card



USB Cable

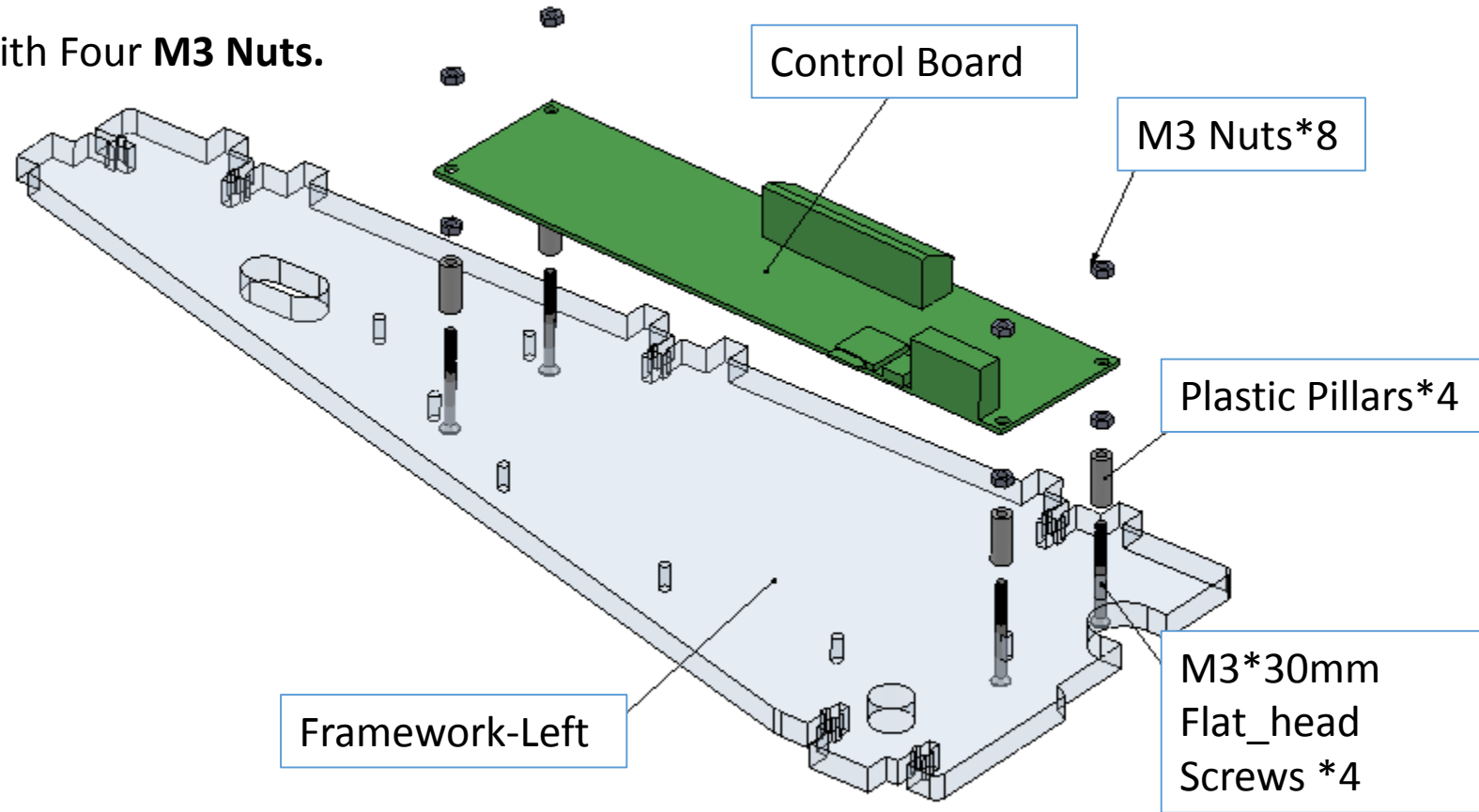


LCD 2004+Keypad



Step 18 Install PCBA Control Board

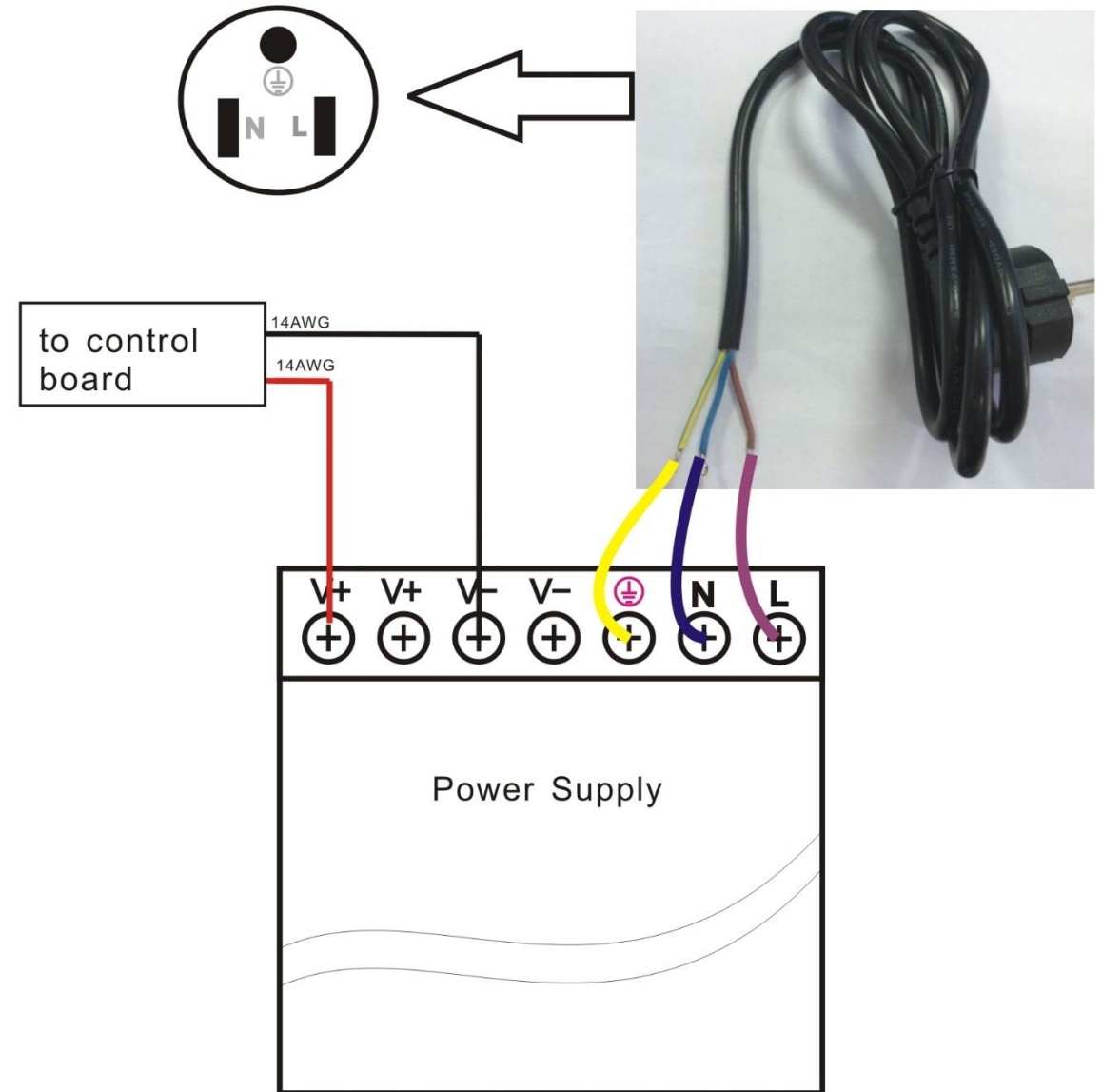
- ◆ Put the four **Plastic Pillars** on the left of **Framework-left**, locking with four **M3*30mm screws** and four **M3 Nuts**
- ◆ Install **Control Board** as picture , locking with Four **M3 Nuts**.



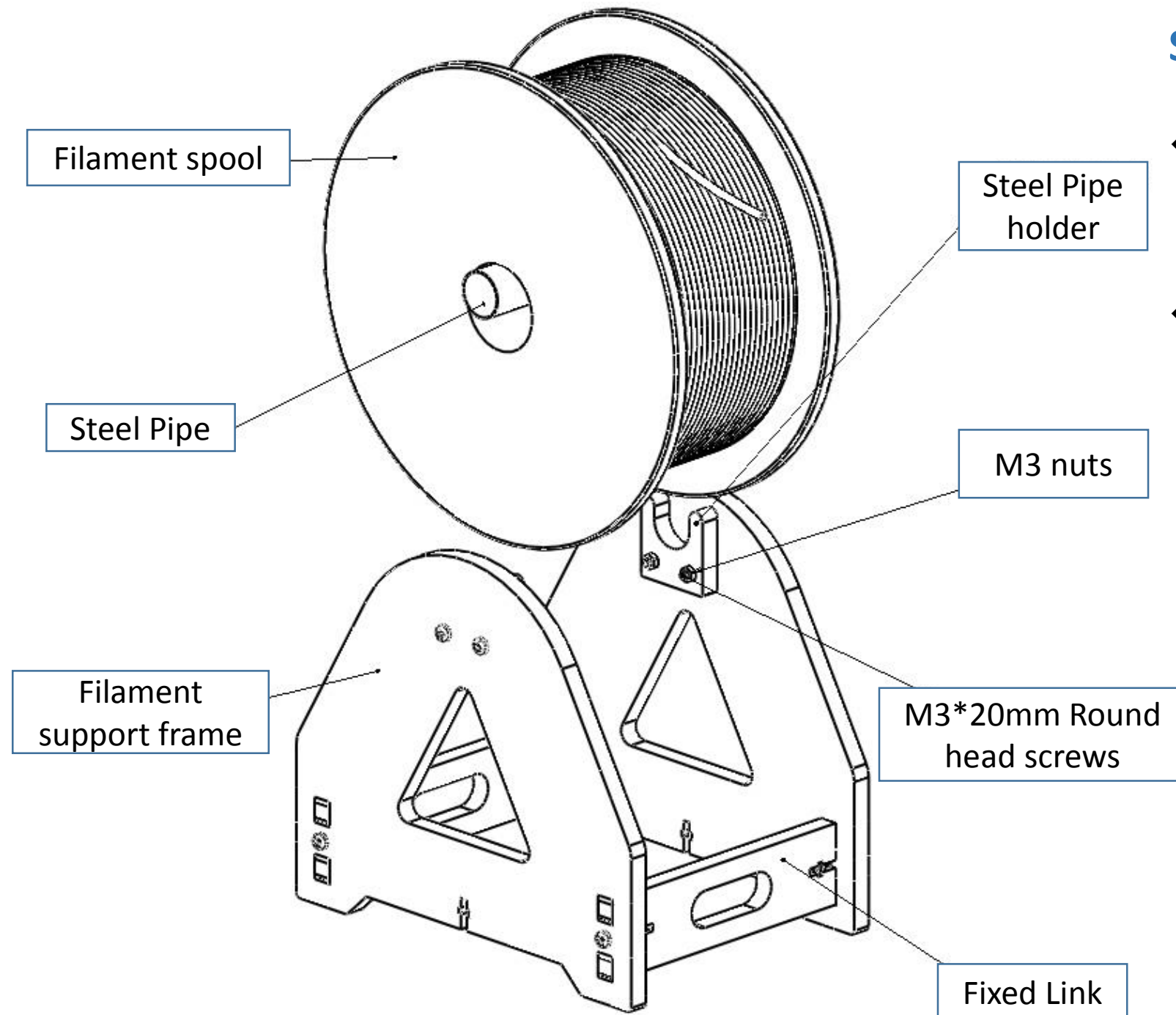
Step 19 AC Power Connector Wiring Diagram

◆ 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.



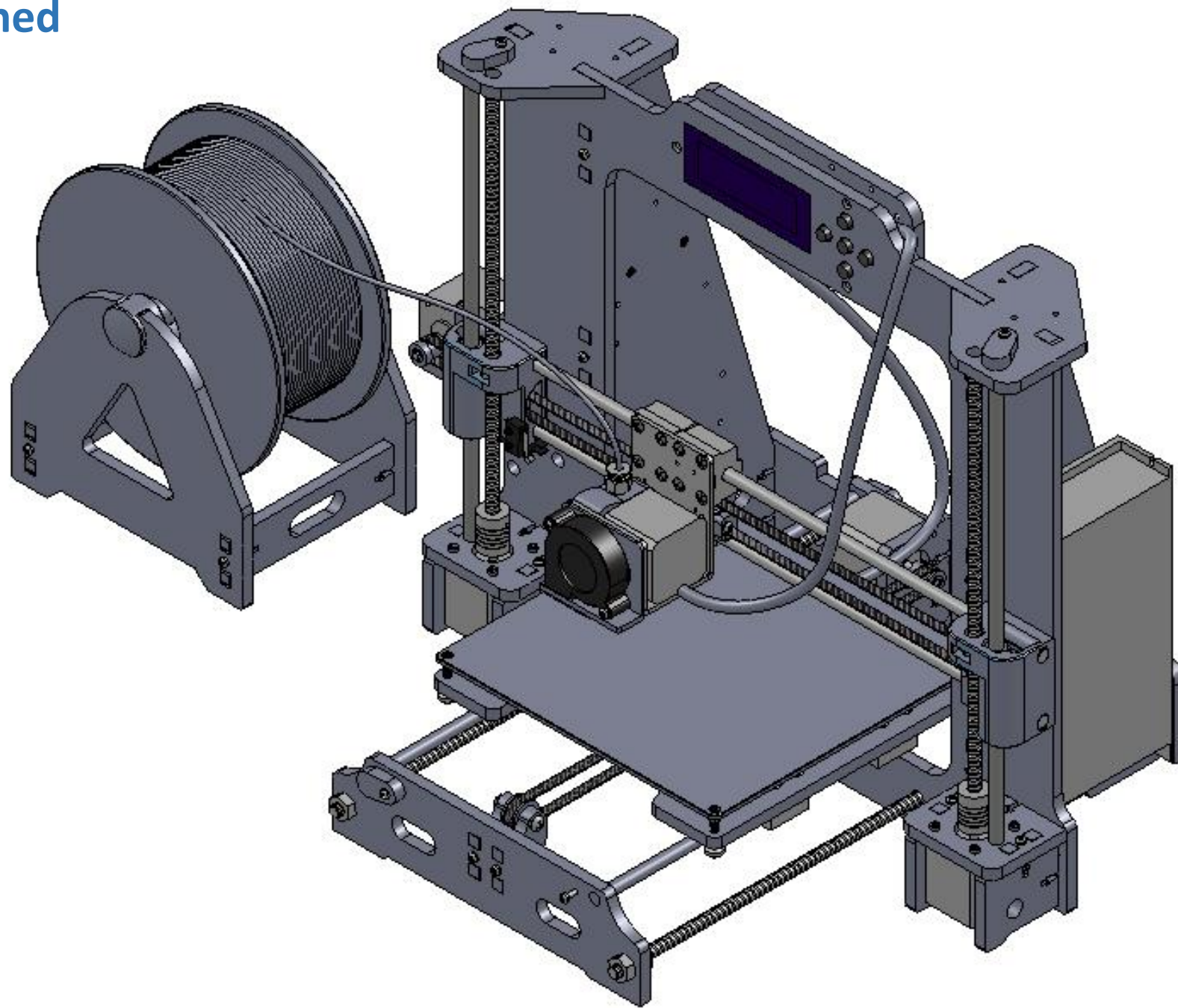
Step 20 Assemble Filament Feeder



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

Installation Finished

Front View



Installation Finished

Back View

