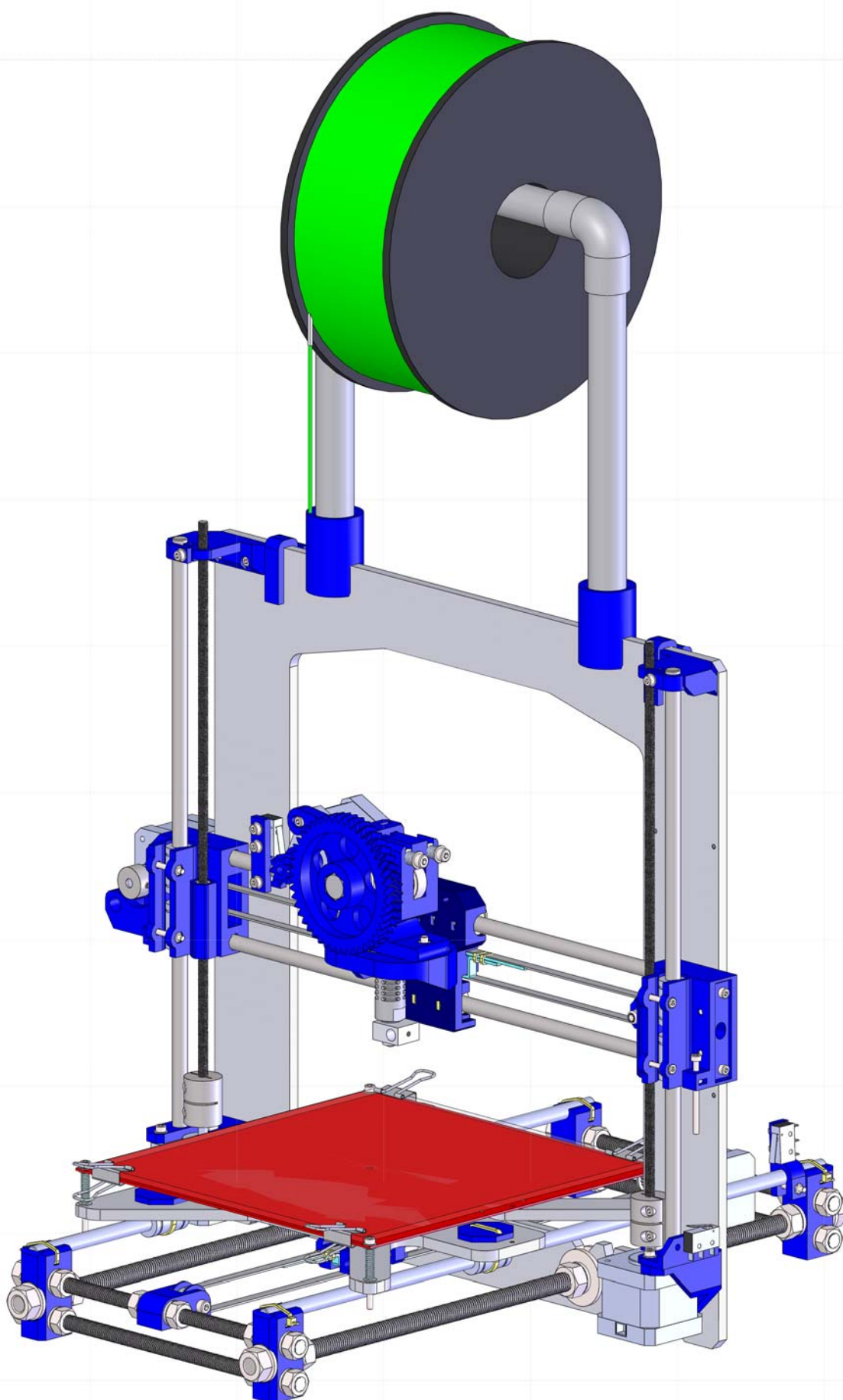
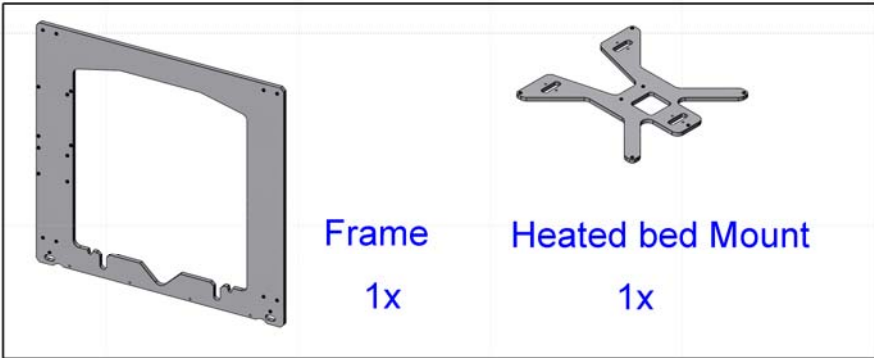


# Prusa I3 Installation manual

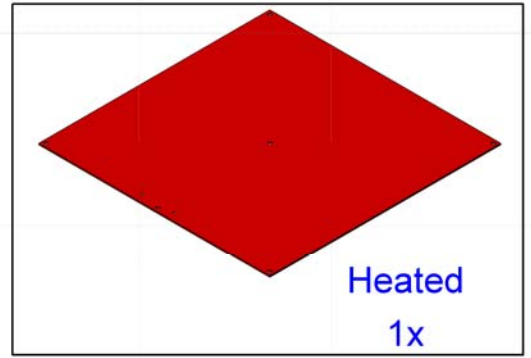


# List of Materials Non-Printed Parts

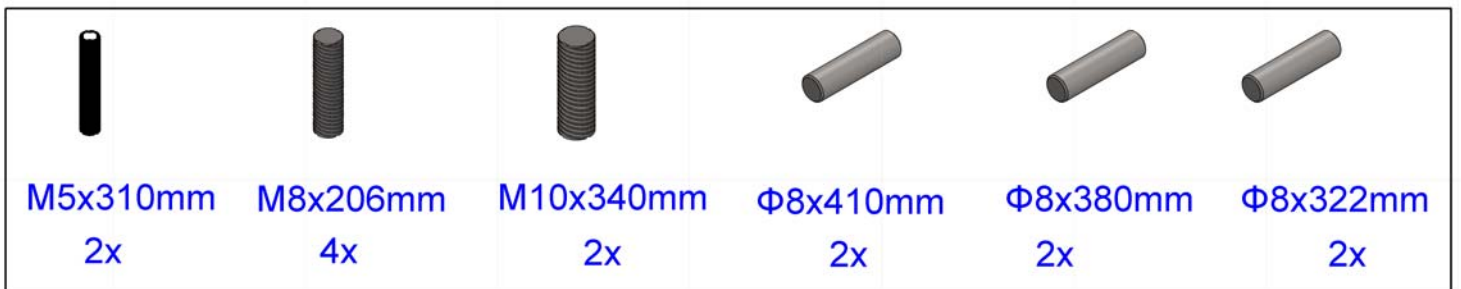
## Alumunium Frame



## PCB



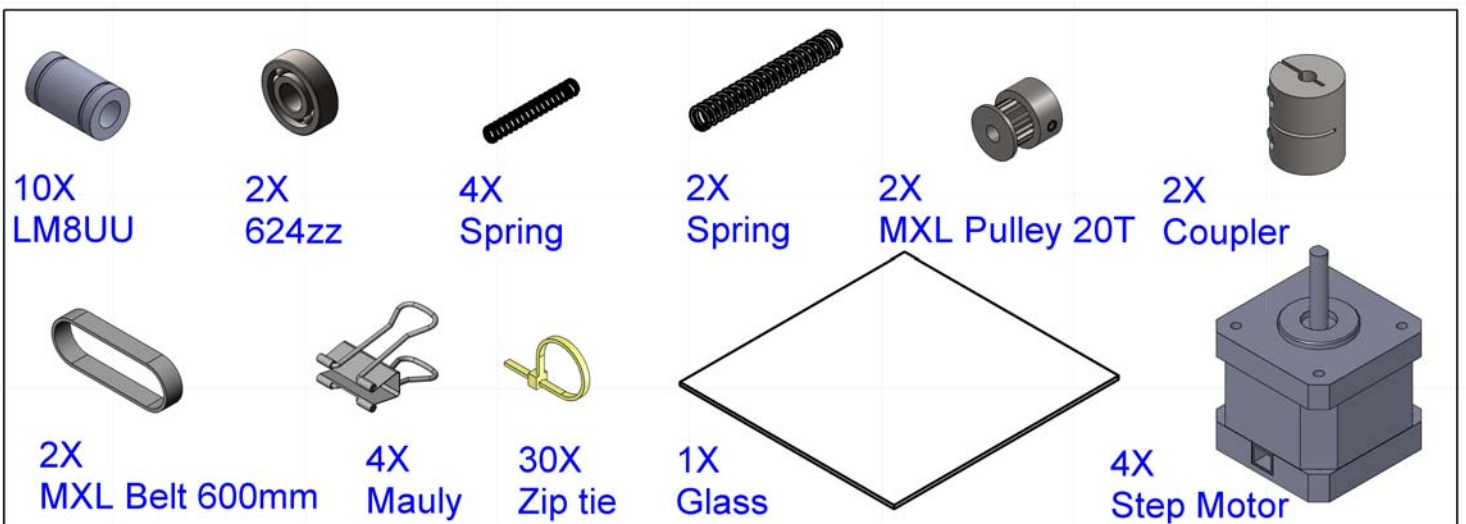
## Threaded Rods & Smooth Rods



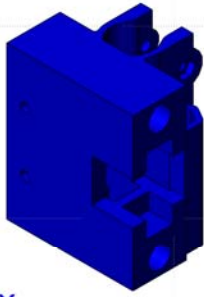
## Nuts, Lock nuts, Washer, Spring washer, Screws



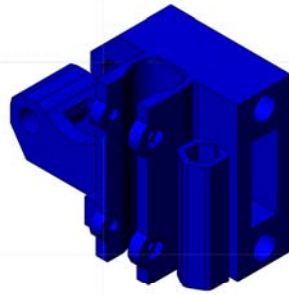
## Bearings, Springs, Motors, Pulleys, Belts, Others



# List of Materials Printed Parts



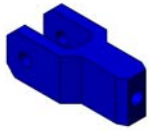
1x  
X Idler holder



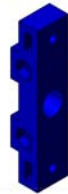
1x  
X Motor



1x  
X Carriage



1x  
X Idler



1x  
X Idler plate



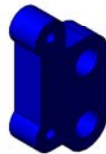
4x  
Bearing Guide



2x  
Line Holder



4x  
Y-Corners



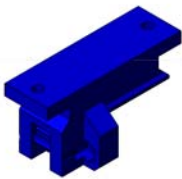
1x  
Y Motor



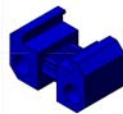
1x  
Y Idler



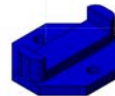
2x  
XY EndStop Holder



1x  
Y Belt Holder



1x  
Y Belt Slider



3x  
Bearing holder



1x  
Z EndStop Holder



1x  
Z Bottom left



1x  
Z Bottom right

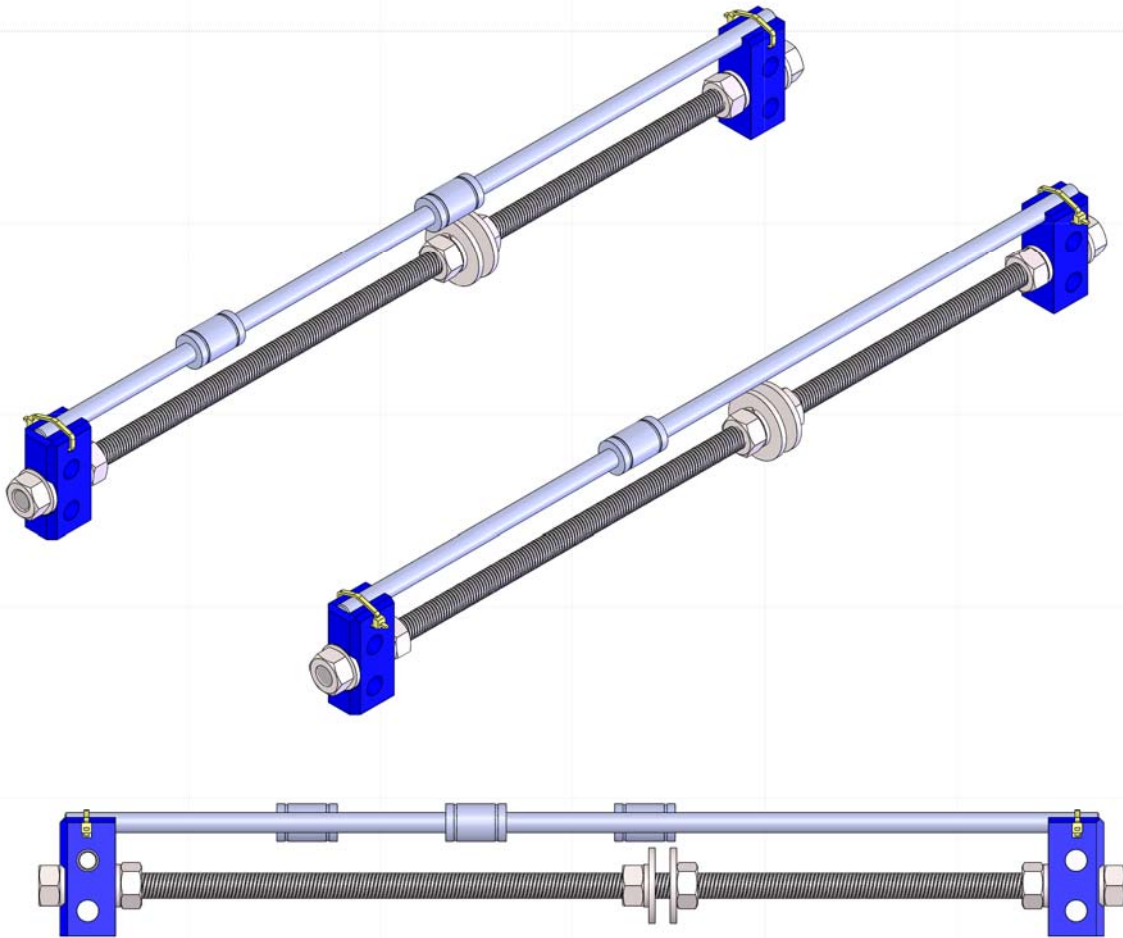


1x  
Z Top left



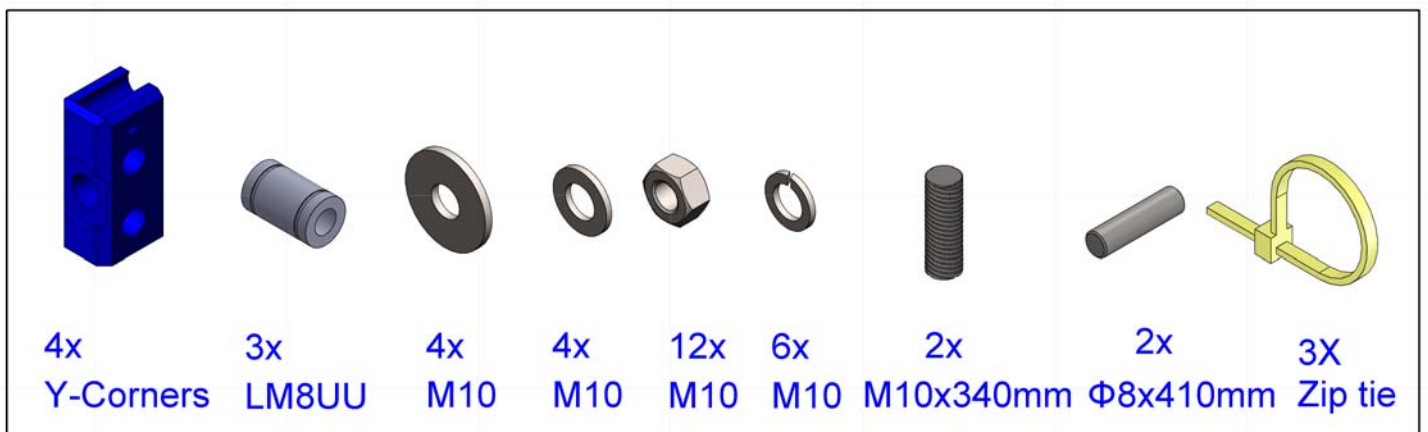
1x  
Z Top right

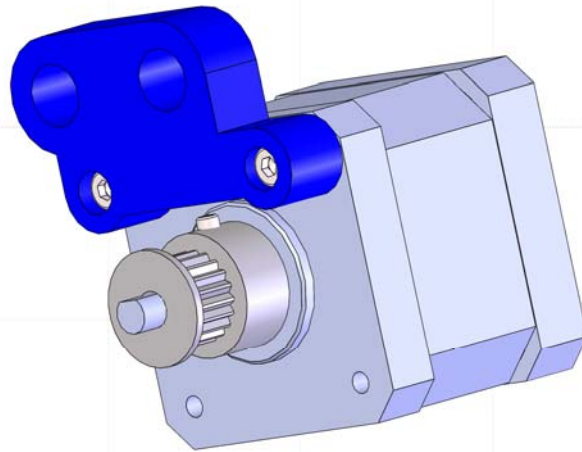
# I Y-axis Assembly



- In different inside between two 430mm screw,in proper order put one M10 nut,two M10 big gasket,one M10 spring and one M10 screw.
- Then put one M10 nut,one spring gasket,one plastic Y-Corners,one M10 gasket and one M10 nut by one side,same with another side.
- Assemble liner bearing on optic axis,2 in one stick,1 in another bearing.
- Put two optic axis in the slot of plastic Y-Cornes,fastening with nylon ties.

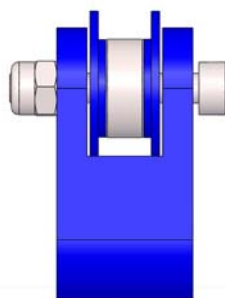
## Requird Parts





- Assemble Y axis motor as picture, pay attention to the direction of synchronous wheel.

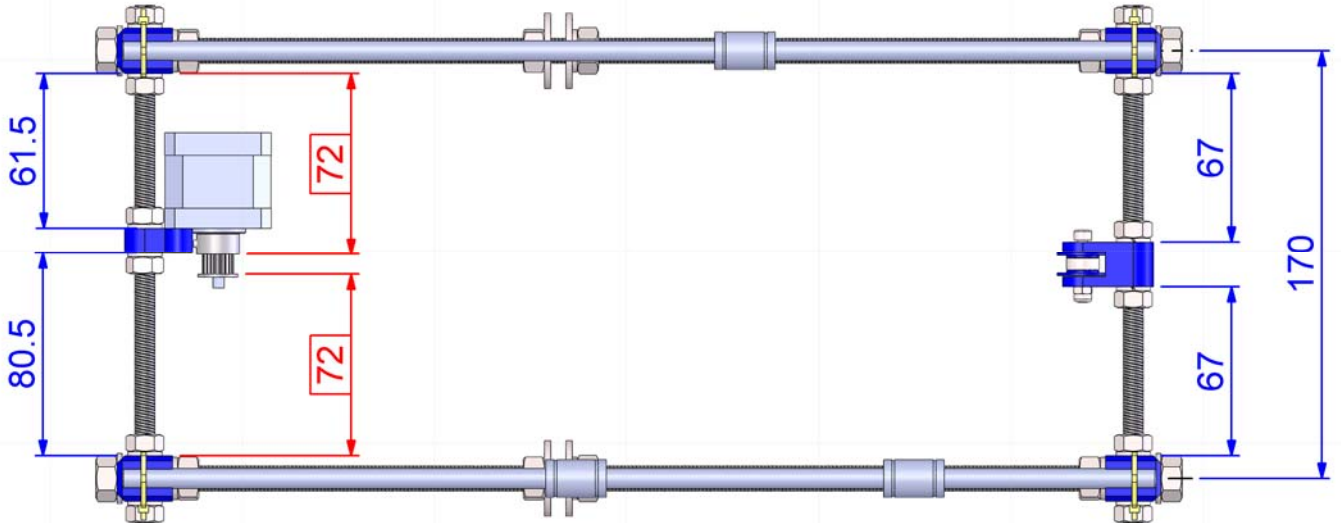
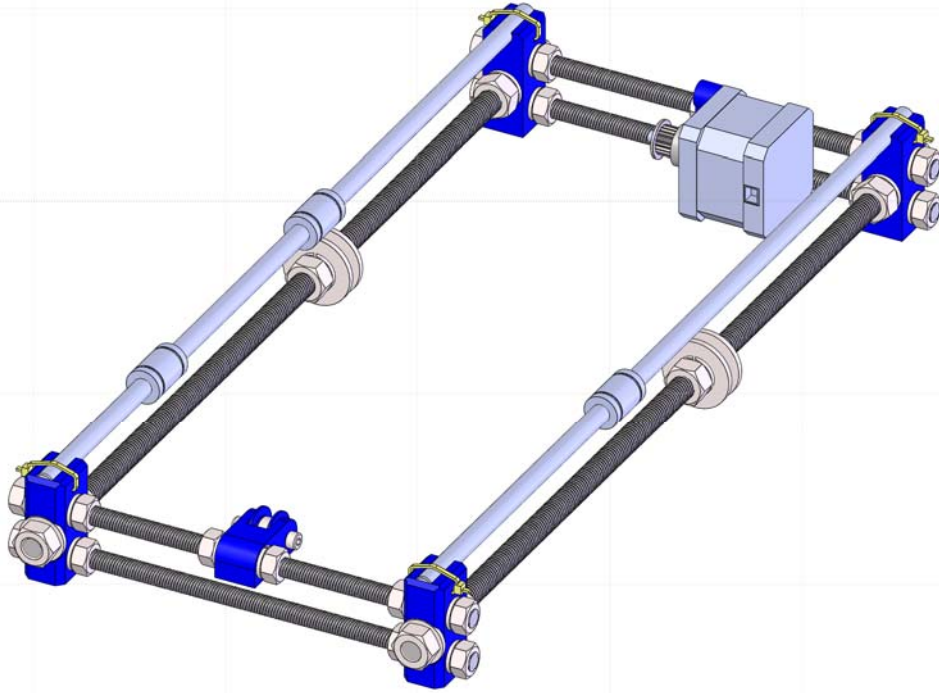
### Requird Parts



- Assemble Y axis bearing as picture, the bearing rotation should be flexible.




### Requird Parts



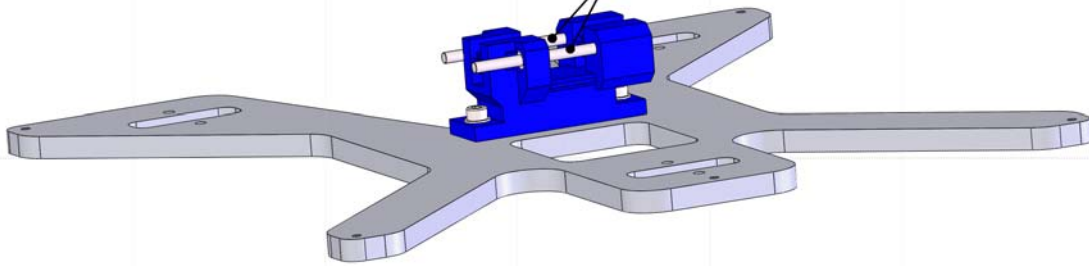


- Put Y axis bearing assembly on a 206mm M8 screw, clamping the nut and spring gasket on the both sides.
- Put Y axis motor assembly on two 206mm M8 screw, clamping the nut and spring gasket on the both sides.
- As shown, put the 206mm M8 screw and 410mm M10 screw assembly together.
- Notice the center distance between two optic axis is 170mm, the position of motor assembly and bearing assembly as shown.

### Requird Parts

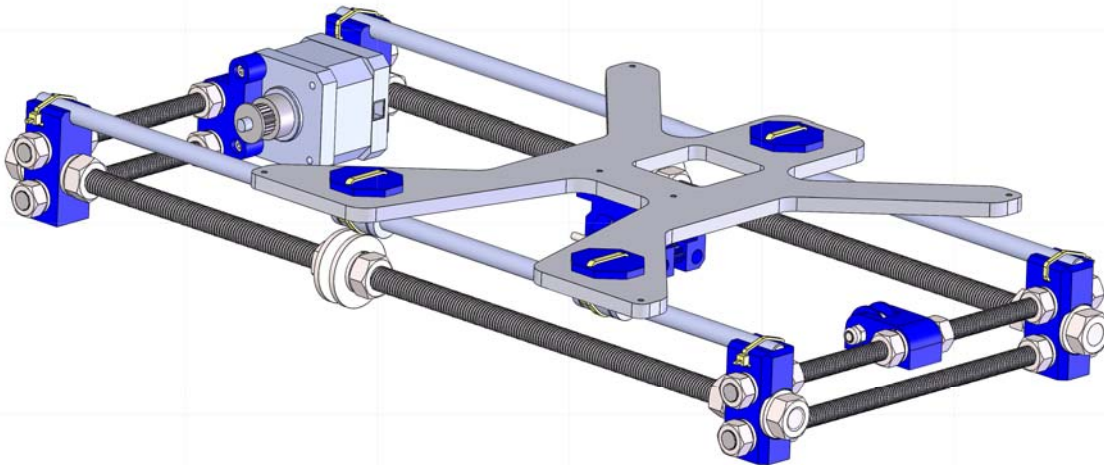
		
4X M8x206mm	22X M8	22X M8

The tension of the belt is tightening the screws



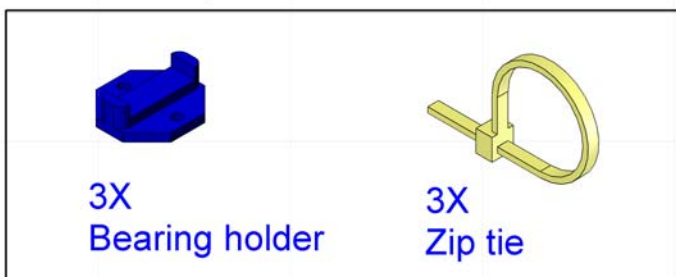
- Assemble Y Belt Slider and Y Belt Holder together.
- Then fastening the assembly on Heatbed Mount of Aluminum parts.

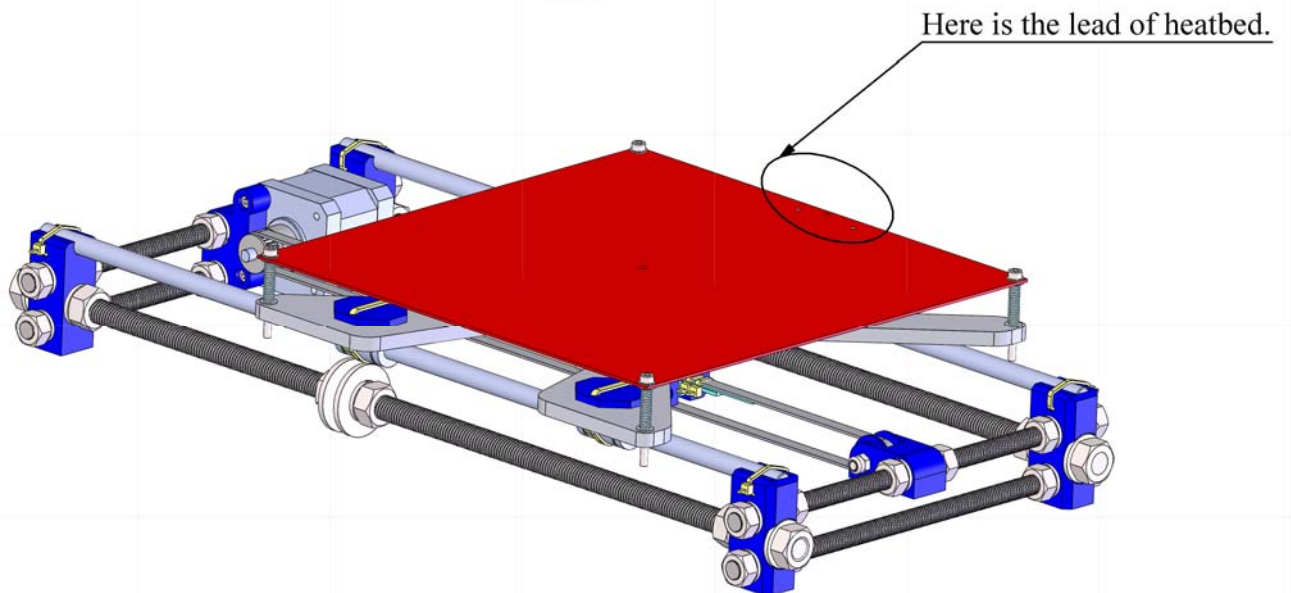
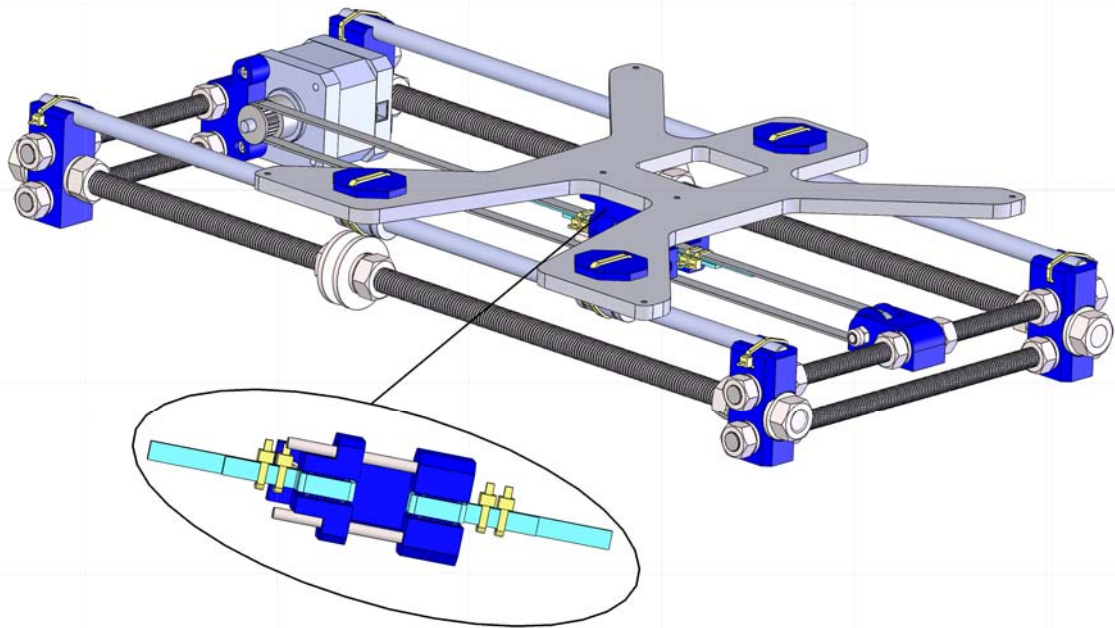
### Requird Parts



- Put Heatbed Mount of Aluminum parts on M10 assembly.
- As shown,fastening with nylon ties.

### Requird Parts





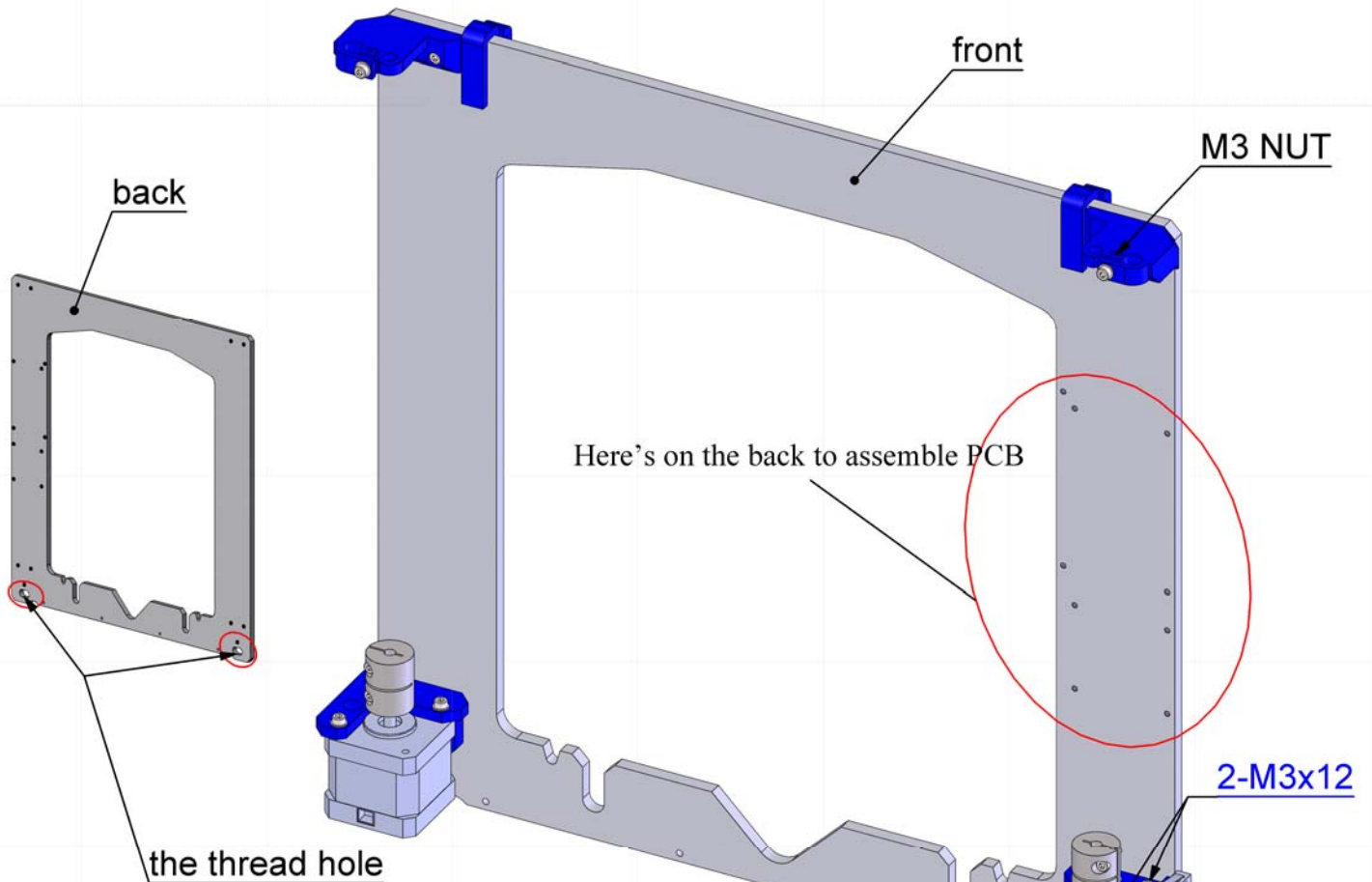
- As shown,fix the belts and fastening with nylon ties.
- As shown,using the screw and spring to fix heatbed on aluminium plate.
- Pay attention to the line position of heatbed.

### Requird Parts



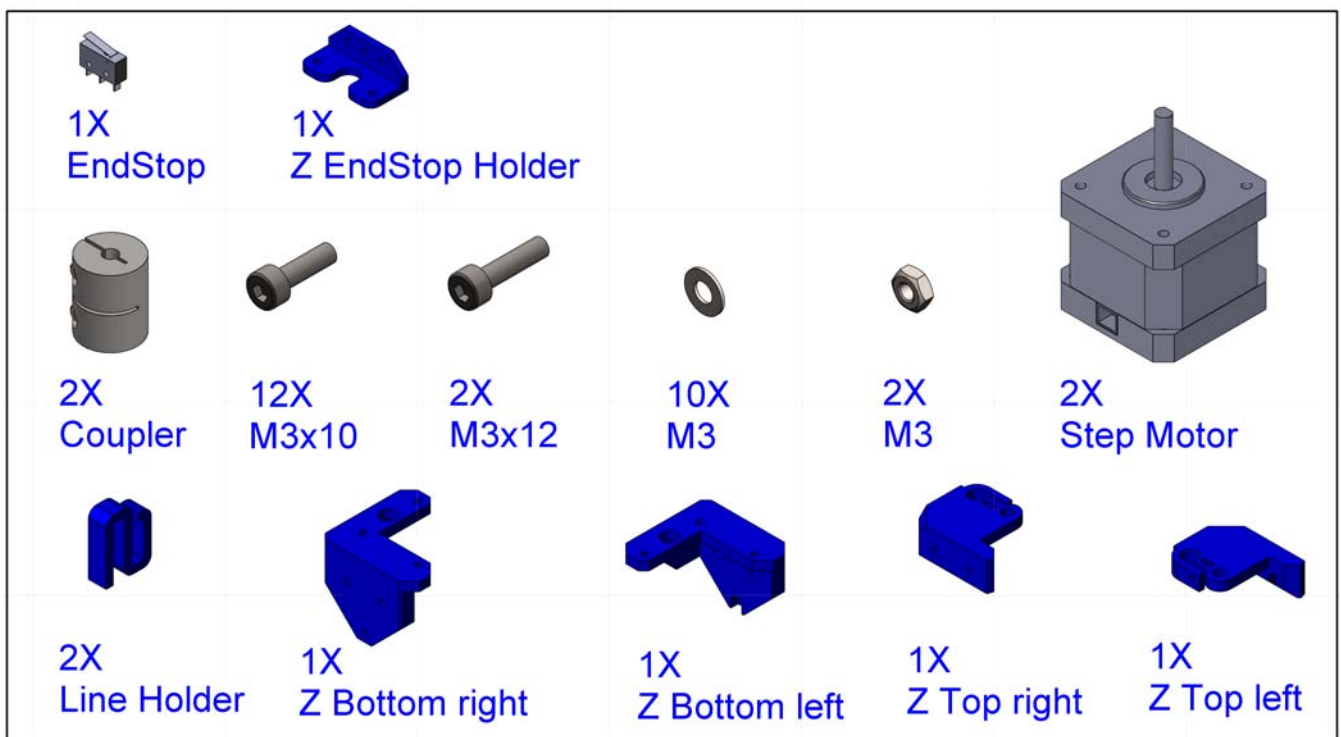


## II XZ frame assembly

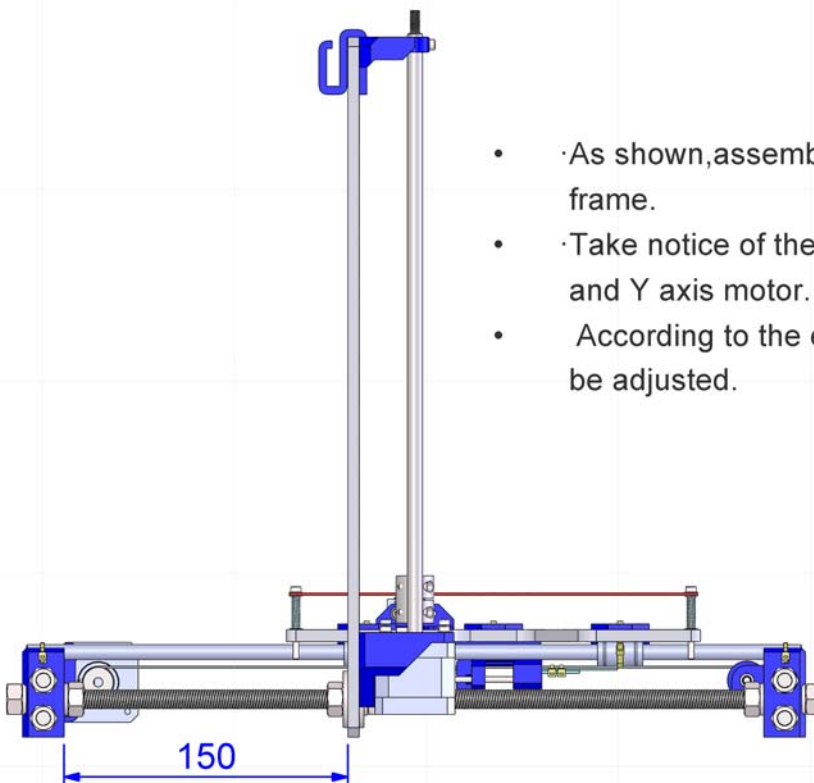
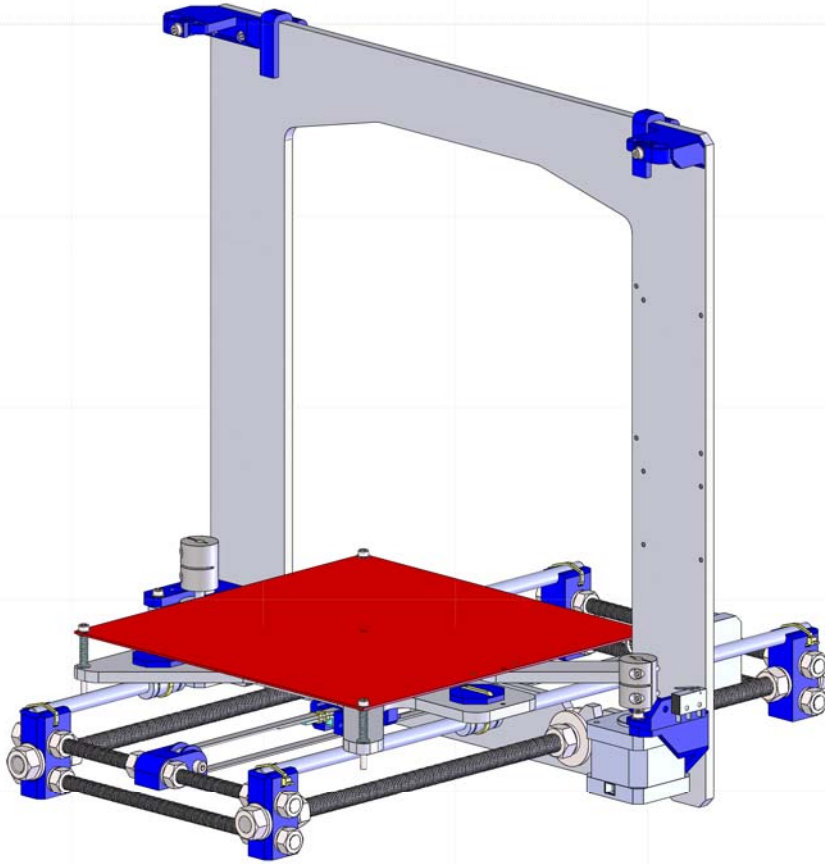


- Put the endstop on the plastic Z EndStop Holder.
- Assemble the coupler on the motor, note reserve a place for installing M5 screw.
- As shown, put the accessories fix on the aluminum frame. Take notice of the aluminum front and back.
- The line should be bored a hole from the aluminum frame to the back.

### Requird Parts

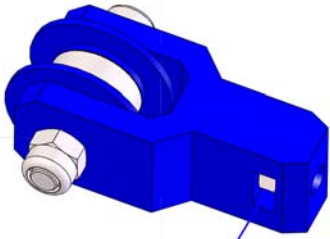


### III Y-axis assembly and XZ Aluminum frame



- As shown, assemble Y axis assembly and aluminum frame.
- Take notice of the distance between aluminum frame and Y axis motor.
- According to the extruder assembly, the distance can be adjusted.

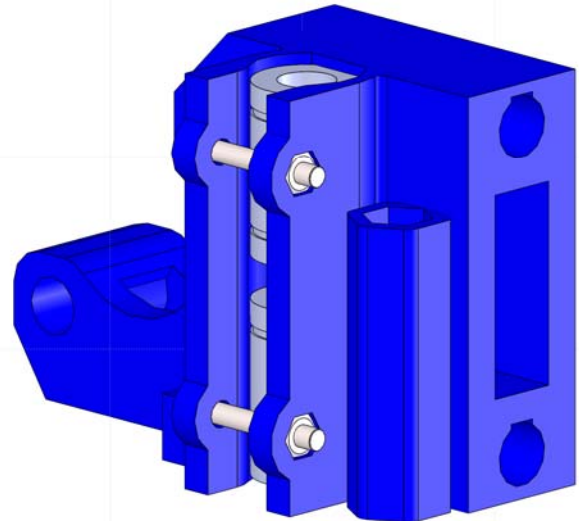
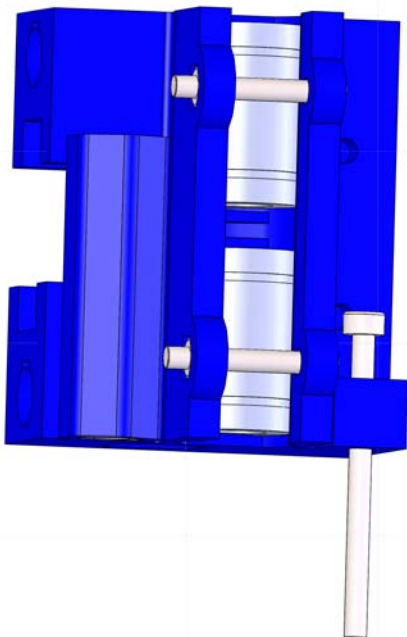
## IV X-axis assemble



M4 NUT

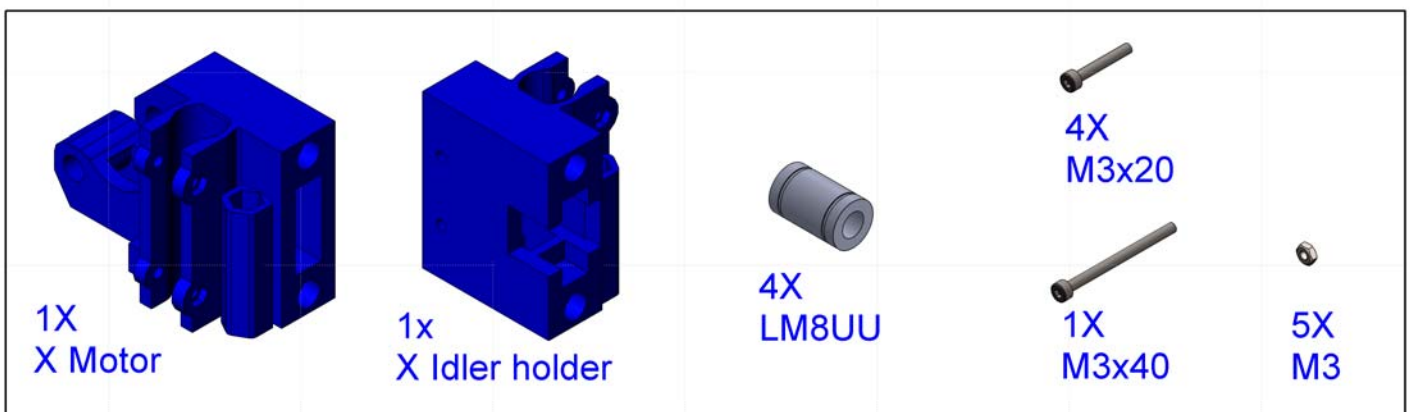
- As shown,in proper order put M4 screw,plastic Bearing Guide,
- bearing,M4 fix the nut on plastic X-Idler.
- Put a M4 nut into slot.

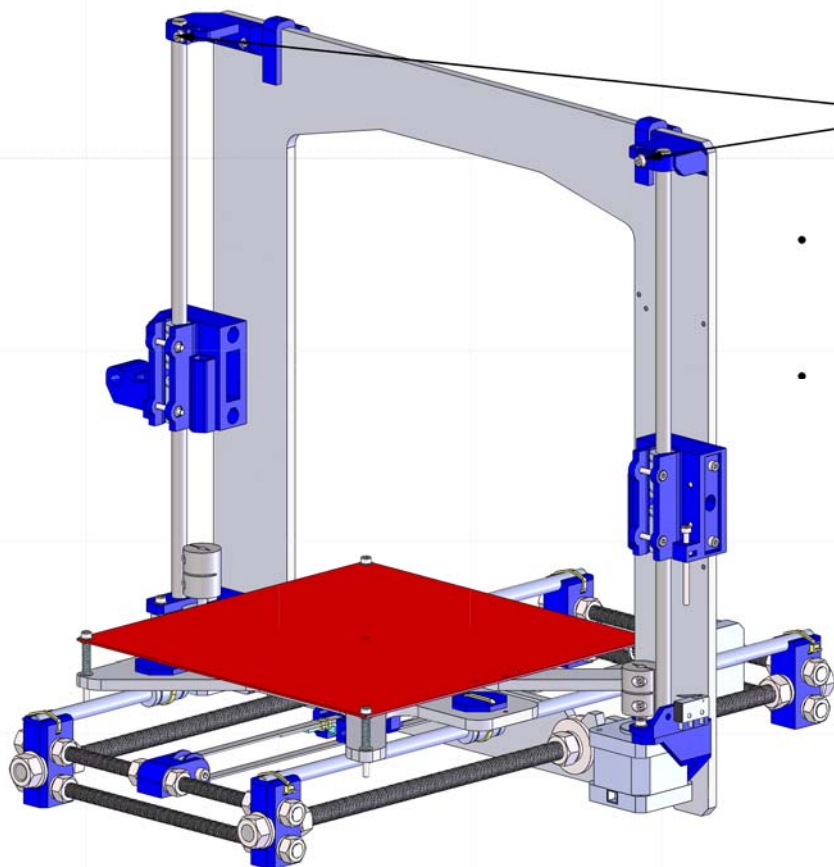
### Requird Parts



- As shown,put the line bearing into plastic X Motor,X Idler Holder respectively, fix with M3 screw and nut.
- Put a M4 nut into slot and plastic X Idler Holder,then twist the screw M3×40 into the nut.

### Requird Parts





Twist the screw here

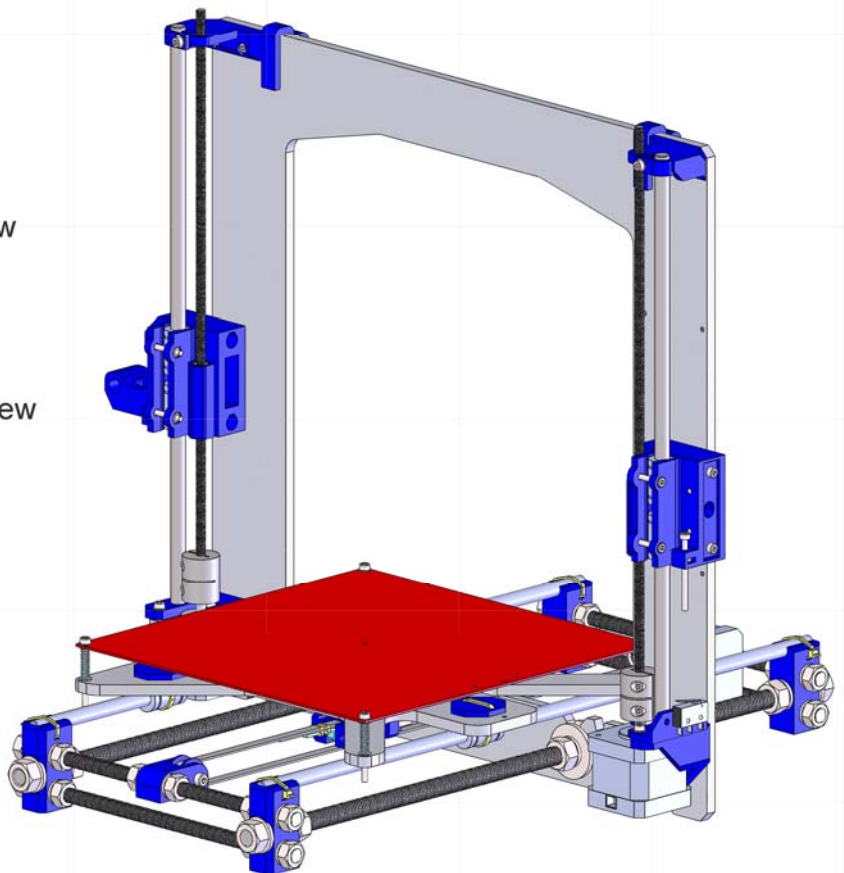
- As shown, put two 322mm  $\Phi 8$  optic axis into the assembly respectively, fix the top screw.
- Be careful when optic axis go through the line bearing, to avoid demanding bearing.

Requird Parts



2X  
 $\Phi 8 \times 322 \text{mm}$

- As shown, put two 310mm  $\Phi$  M5 screw out of the top, then assemble one M5 nut, one 50MM spring, plastic assembly, one M5 screw.
- Then fix it in the coupling, twist the screw of coupling.



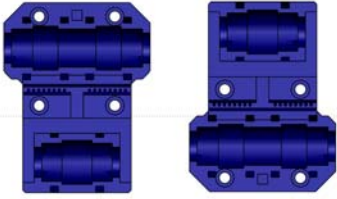
Requird Parts



2X M5x310mm      2X Spring      4X M5

## Printing the head support

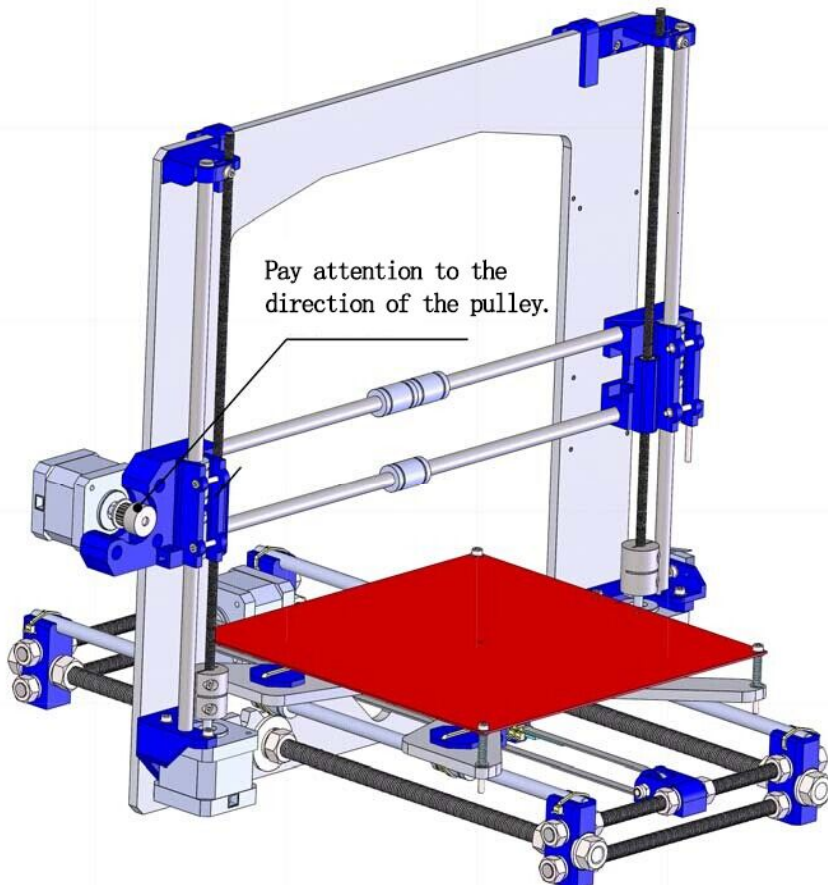
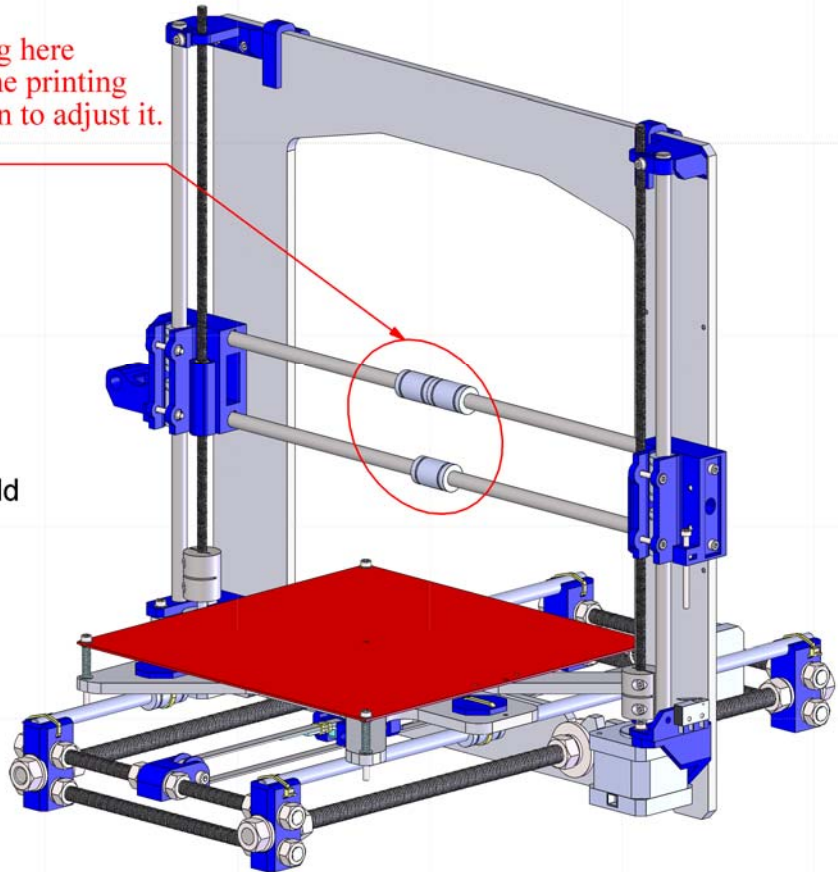
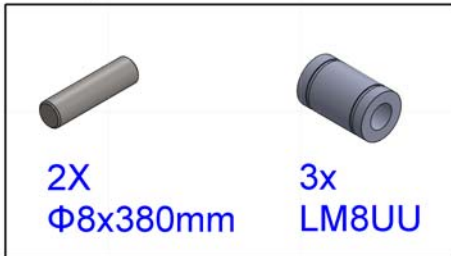
2 up 1 down 1 up 2 down



The number of bearing here should according to the printing head support direction to adjust it.

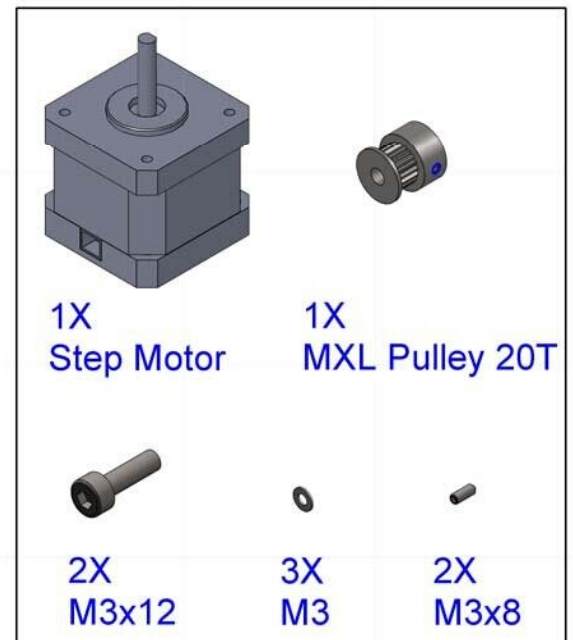
- As shown, use two 380mm optic axis go through the plastic on the right side,
- assemble the line bearing, go through the plastic hole on the left side.
- Be careful to avoid damaging the bearing.
- The position of printing head support should according to the extruder for sure.

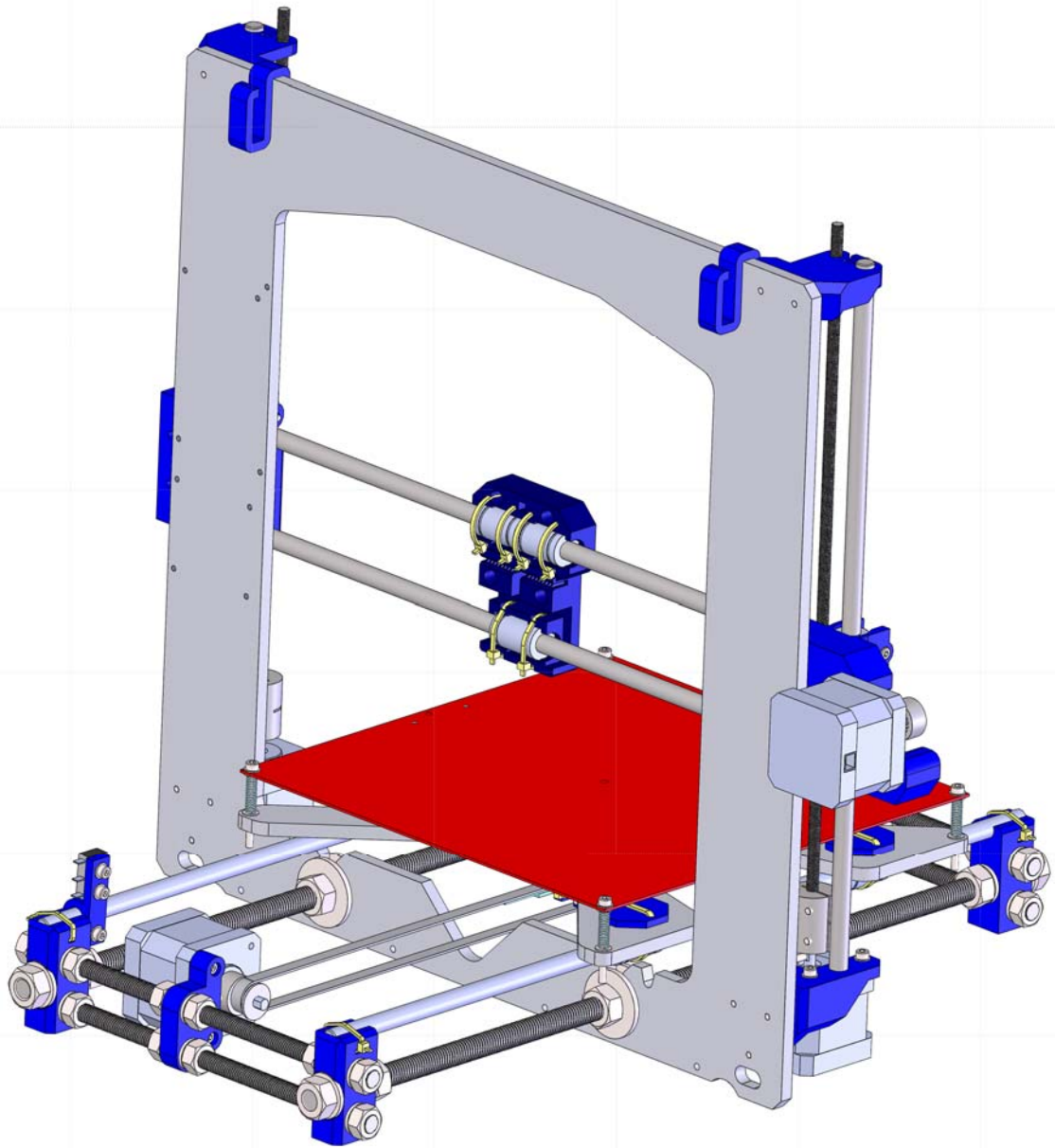
### Requird Parts



- As shown, fix the synchronizing wheel with moto at first.
- Then assemble the motor on the plastic assembly on the left side.

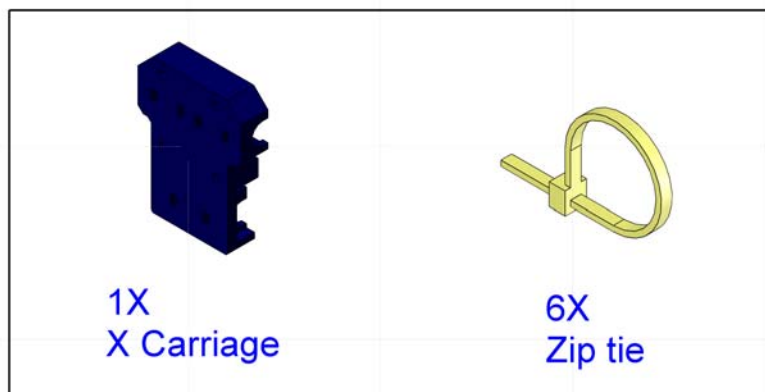
### Requird Parts

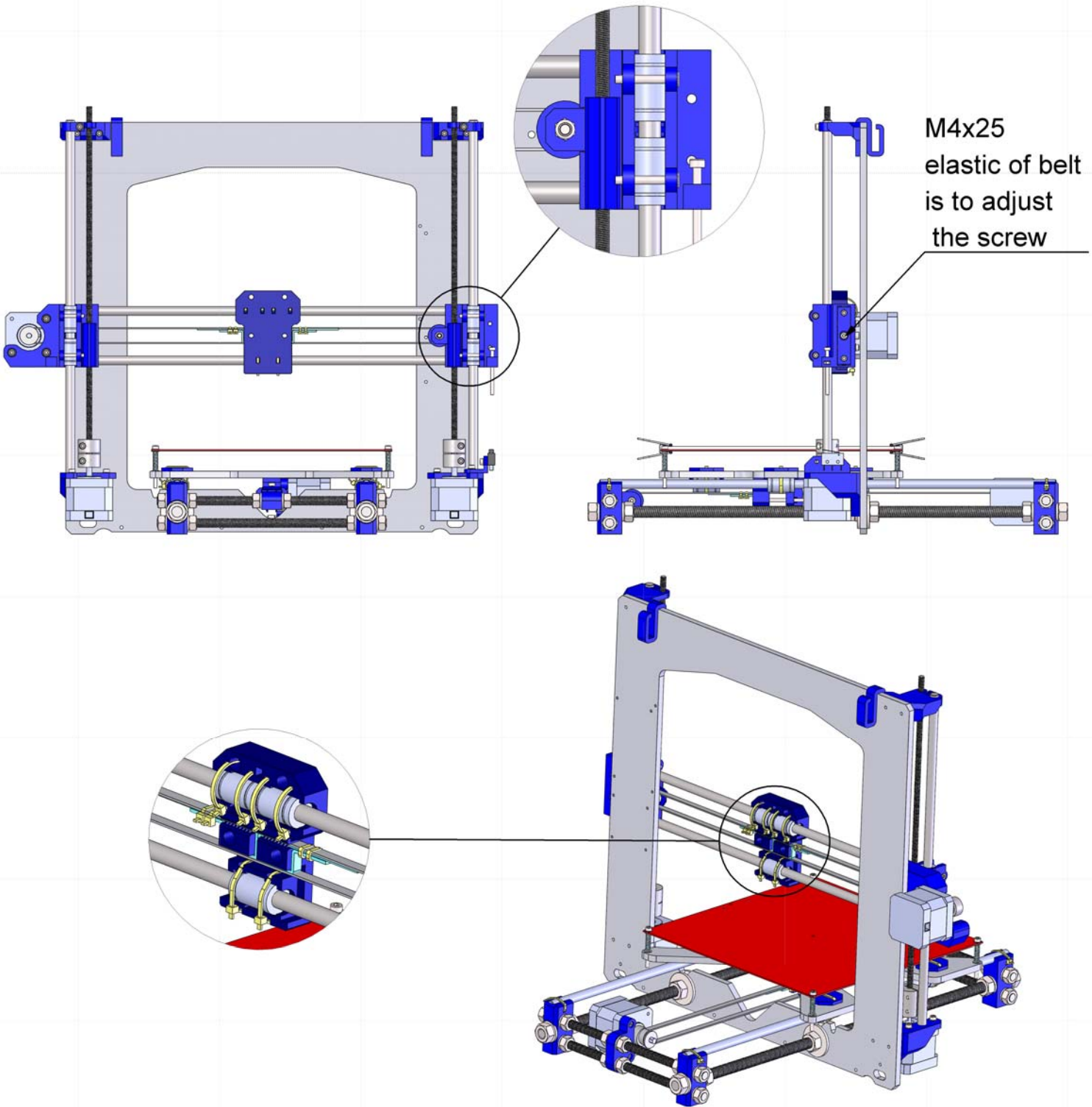




- As shown,fix the plastic X Carriage on the bearing with nylon ties.

### Requird Parts

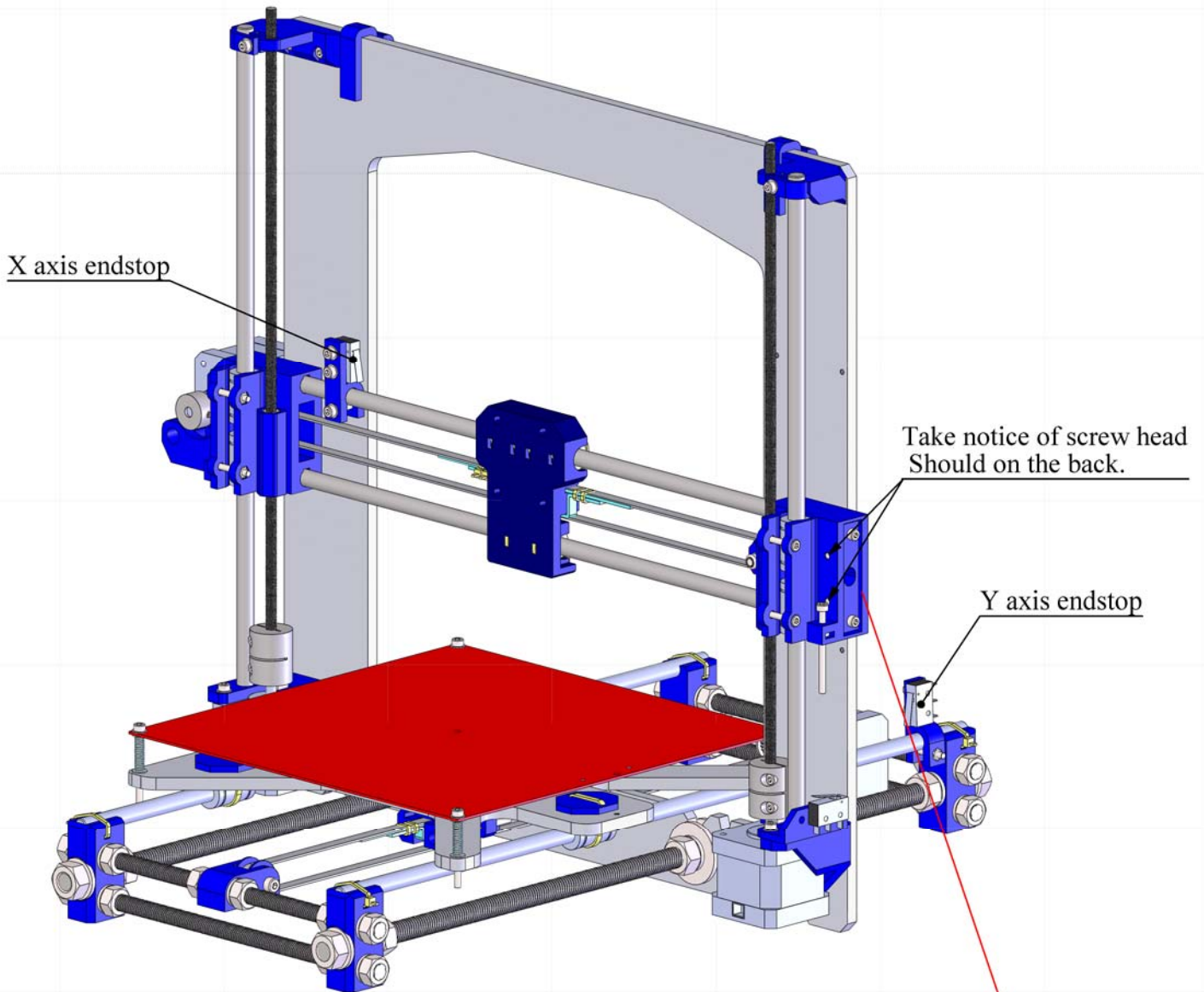




- Assemble X Idler in the left plastic and fix screw with M4x25
- As shown, using the belt bypass the synchronizing and bearing, fix on the plastic X Carriage with nylon ties.

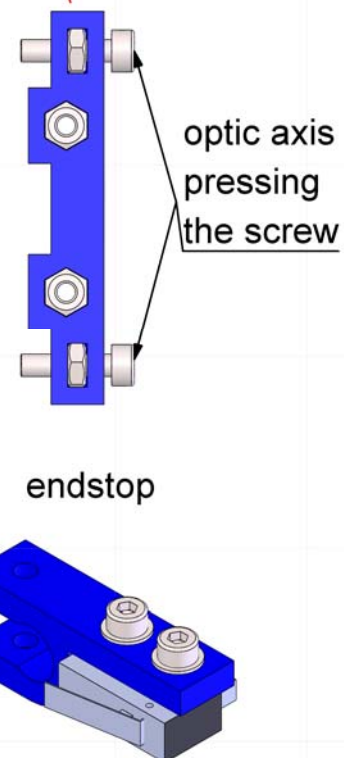
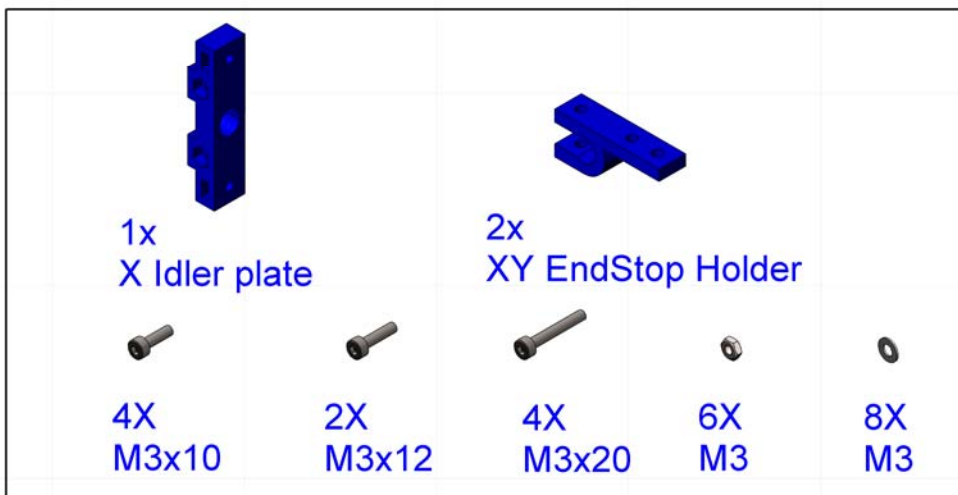
#### Requird Parts





- Assemble the X Idler plate assembly
- Use X Idler plate assembly to the right side plastic as picture, adjust the screw and pressing the optic axis.
- Fix endstop on the plastic bracket and assemble to the position as picture.

Required Parts



---End---