

***fixed instructions by Xgadget.de (14.02.2019)***

EX8 3D Printer Installation  
Manual Guide












## Installation Instructions of EX8

### Note:

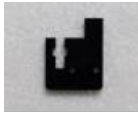













1. Please check if the package is completed before you open the package
2. Please check if all the parts in the package are matched the parts list
3. It there is any problem, please contact us directly
4. This graphic installation instructions are schematic diagrams of the model, for reference only.





## Machine parts list.

Serial number	image	Part Name	Quantity	Remarks	Serial number	image	Part Name	Quantity	Remarks
1		Support plate	2		7		Lock plate	2	
2		Screen mounting board	1		8		Front mounting plate	1	
3		Z-axis support plate	2		9		Z-axis motor mounting plate	2	
4		Rack 2	2		10		Main support plate	1	
5		Rear mounting plate	1		11		Y-axis motor mounting plate	1	

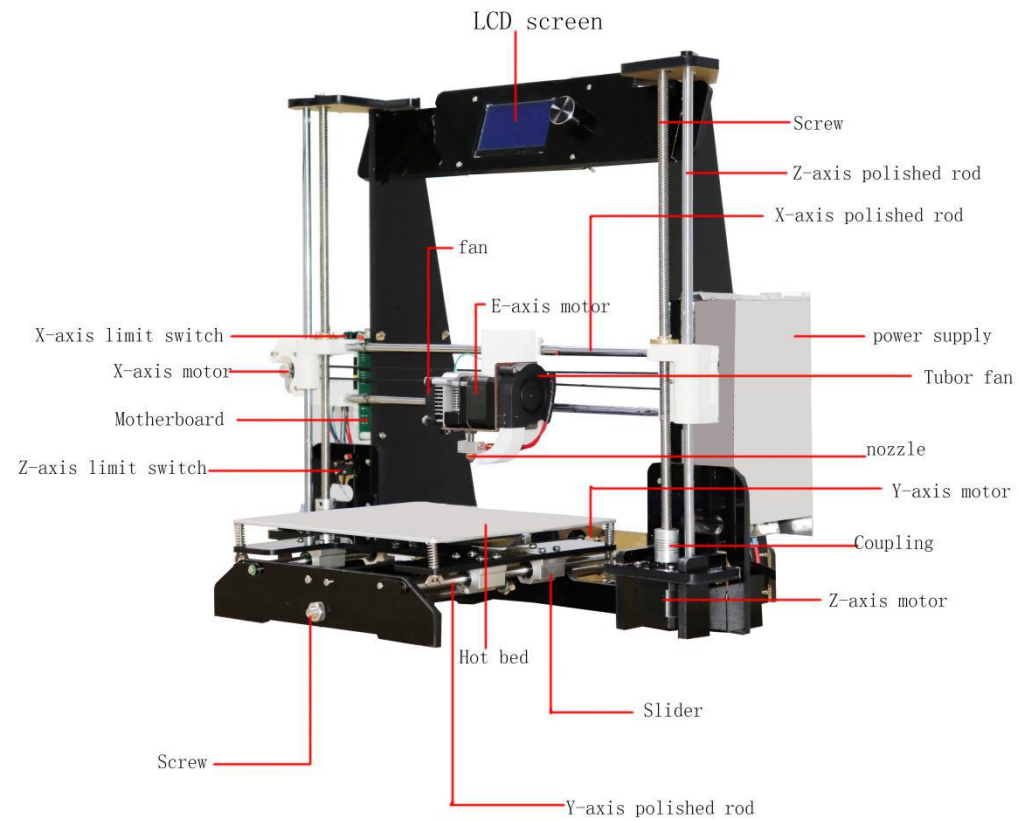
6		Screen saver	1						
12		Y-axis motor	1		20		Screen	1	
13		Z-axis motor	2		21		power supply	1	
14		X-axis motor	1		22		M8 screw 390mm 1PCS M8 screw 150mm 1PCS	2	
15		Motherboard	1		23		M8 trapezoidal screw 365mm 2PCS	2	
16		Right bracket	1		24		Optical axis 391mm 2PCS Optical axis 370mm 2PCS Optical axis 432mm 2PCS	6	
17		Left bracket	1		25		Extruder module	1	
18		Slider	4		26		Extruder mounting plate	1	

19		Rack 1	2						
27		power cable	1		35		Y-axis belt clip	1	
28		Hot bed line	1		36		Phillips pan head screw M3*18 27PCS	1	
29		Winding tube	1		37		M8 nut 8PCS M8 flat gasket 6PCS	1	
30		Red black line	1		38		M3 nut 45PCS	1	
31		Motor line 350mm 2PCS Motor line 280mm 1PCS Motor line 700mm 1PCS Motor line 800mm 1PCS	5		39		Phillips pan head screw M3*30 8PCS M3 hand screw nut 4PCS spring 4PCS	1	
32		Limit switch 500mm 2PCS Limit switch 140mm 1PCS	3		40		Phillips pan head screw M3*12 25PCS	1	

33		Y limit switch mounting plate	1		41		Hexagon socket head cap screw M3*20 4PCS Phillips pan head screw M3*25 4PCS	1	
34		Briquetting block	6		42		Phillips head tapping screw St2.2*10 6PCS Hexagon socket head cap screws M3*6 3PCS	1	
43		Phillips pan head screw M4*8 16PCS	1		50		Hot bed bracket	1	
44		Y-axis synchronous bearing assembly	1		51		Wind mouth	1	
45		Phillips screwdriver	1		52		Screen gray line 500mm	1	
46		Belt	1		53		Hot bed	1	
47		Diagonal pliers	1		54		Rubber column	4	

48		Card reader 1PCS SD card 1PCS	1		55		10-14 open end wrench 1PCS 5.5 open end wrench 1PCS	1	
49		1.5 hex wrench 1PCS 2.0 hex wrench 1PCS 2.5 hex wrench 1PCS	1		56		Display knob	1	

# Machine part name





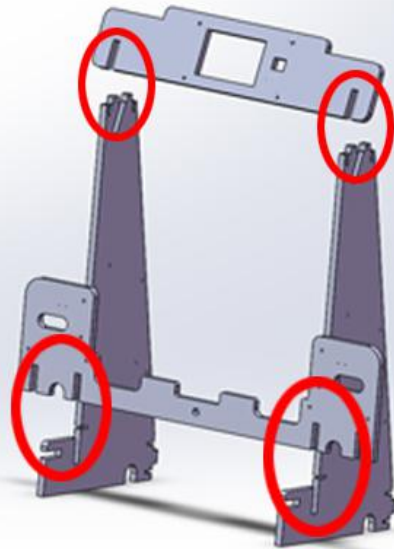
## Assembly Step 1

The red circle is assembly position

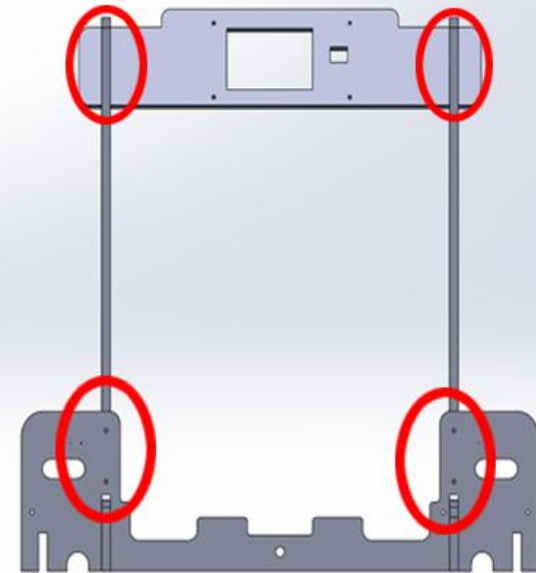
Please notice the installation  
of screen fixed plate,  
their holes are on the right of plates

Name and Qty. of printer parts		
Item	Name	Qty
1	Main support plate	1
2	Support plate	2
3	screen fixed plate	1
4	Cross head screw	4
	M3*18	
5	M3 Nut	4

Before Assembly



After Assembly



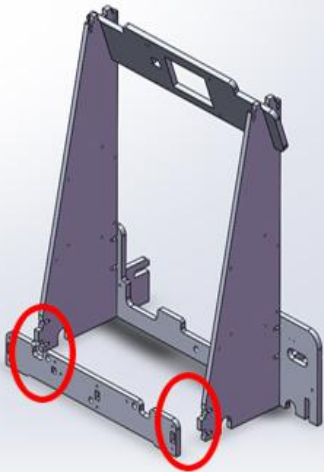
## Assembly Step 2

Name and Qty. of printer parts		
Item	Name	Qty
1	Step 1	1
2	Back plate	1
3	Cross head screw	4
	M3*18	
4	M3 Nut	4

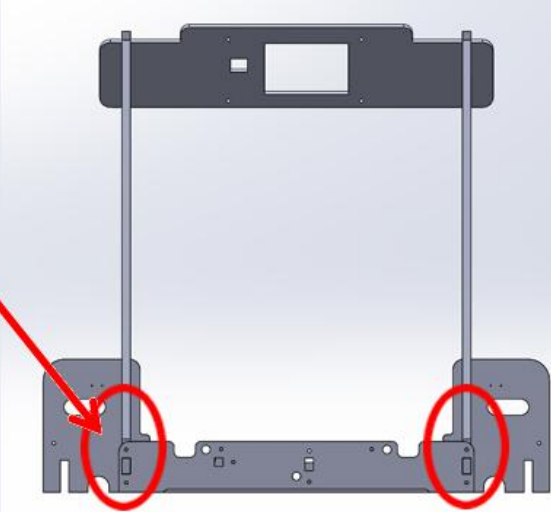
The red circle is assembly position

After assembly, the hole is in the left of machine (from the back)

Before Assembly



After Assembly

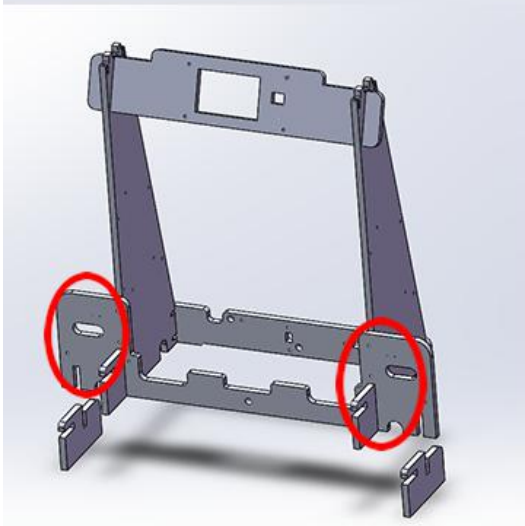


### Assembly Step 3

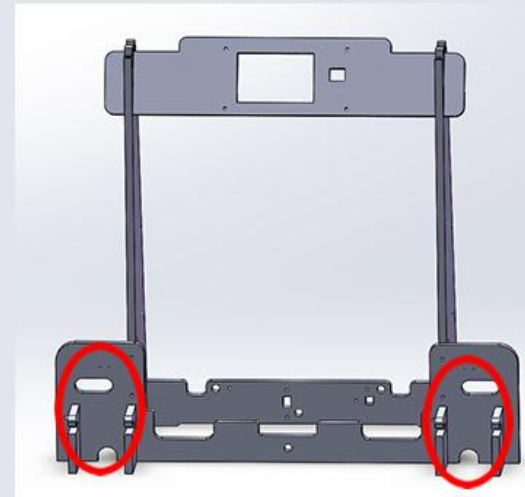
The red circle is assembly position

Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 2	1
2	Z axis motor support plate	2

Before Assembly



After Assembly



## Assembly Step 4

Name and Qty. of printer parts:		
Item	Name	Qty
1	Z axis motor	1
2	Z axis motor mounting plate	1
3	Cross head screw M3*12	8

The red circle is assembly position

The motor mounting plate holes are all turned outward, the motor connection holes are all turned inward.

Before Assembly



Please notice the installation of motors connection and the position of motor installation plate



After Assembly



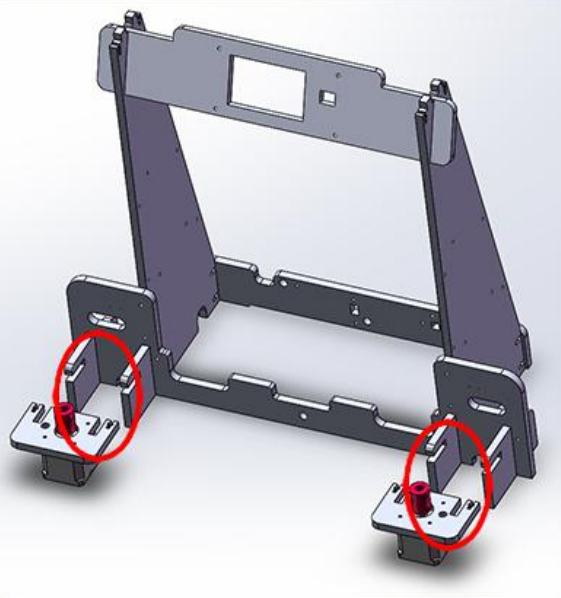
## Assembly Step 5

The red circle is assembly position

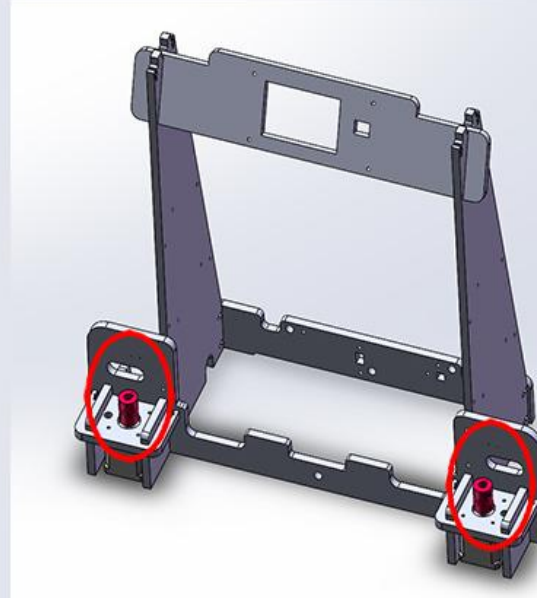
Name and Qty. of printer parts:

Item	Name	Qty
1	Step 3	1
2	Step 4	1
3	Cross head screw	4
	M3*18	
4	M3 Nut	4

Before Assembly



After Assembly



## Assembly Step 6

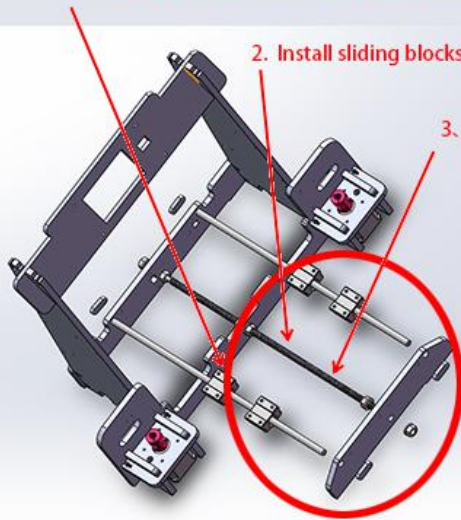
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 5	1
2	leading rod 370mm	2
3	Threaded rod	1
4	Front mounting plate	1
5	Sliding block	4
6	M8 Nut	6
7	M9 Spacer	6
8	Cross head screw	4
	M3*18	
9	M3 Nut	4

### Before Assembly

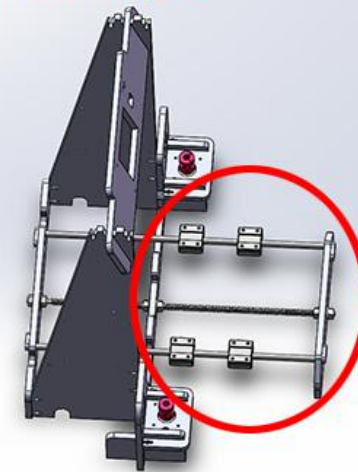
1. Through the threaded rods from the machine, then using nuts to lock them

2. Install sliding blocks into the leading rod, then install the leading rod on the front and back mounting plate.

3. Use lock block to lock the leading rod.



### After Assembly





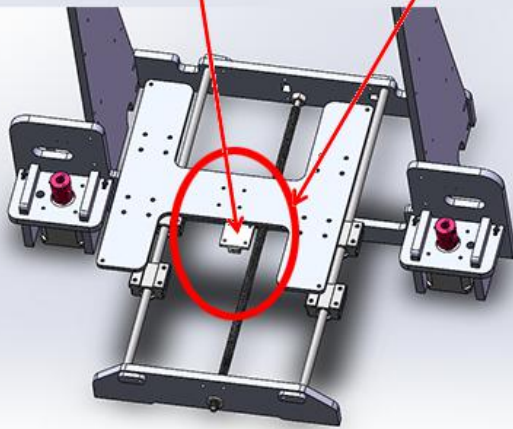
## Assembly Step 7

Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 6	1
2	Heat bed holder	1
3	Y axis belt buckle	1
4	Cross head screw	4
	M3*12	
5	M3 Nut	4
6	Cross head screw	16
	M4*8	

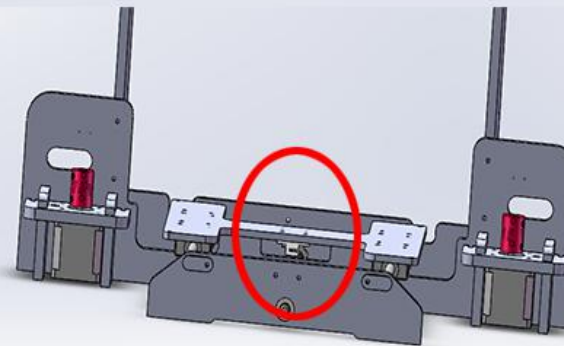
1. Please notice the direction of the belt buckle, it open to the right, and lock the M3 nut on the heat bed holder

2. The larger dent of heat bed is facing inside

Before Assembly



After Assembly



## Assembly Step 8

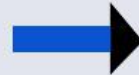
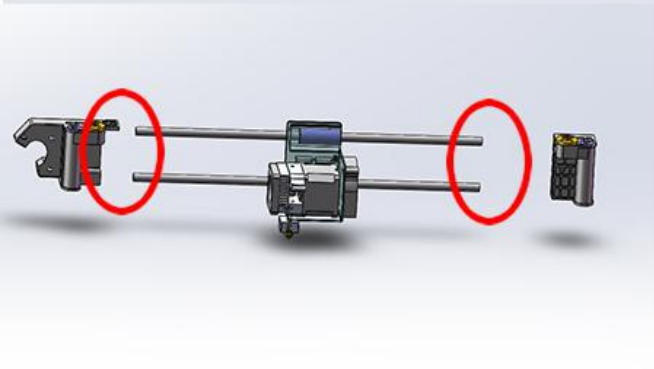
Name and Qty. of printer parts:		
Item	Name	Qty
1	Left holder	1
2	Right holder	1
3.	Y axis leading rod 436mm	2
4	Extruder Set	1

The red circle is assembly position

Tap the leading rod into the hole of the left and right holder, both rods push into the end

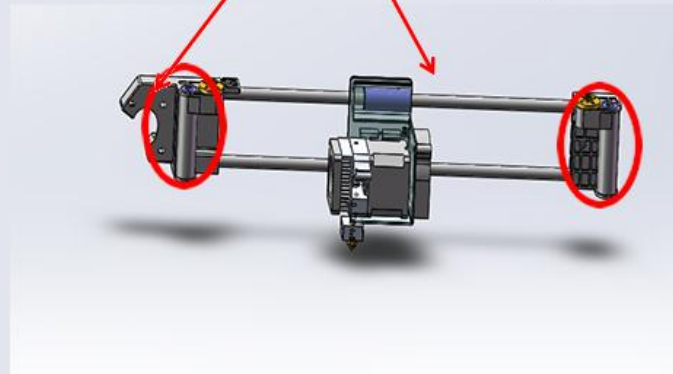
*Assemble the extruder module with backplate and three hexagon screws*

Before Assembly



Notice the toward of holders

After Assembly





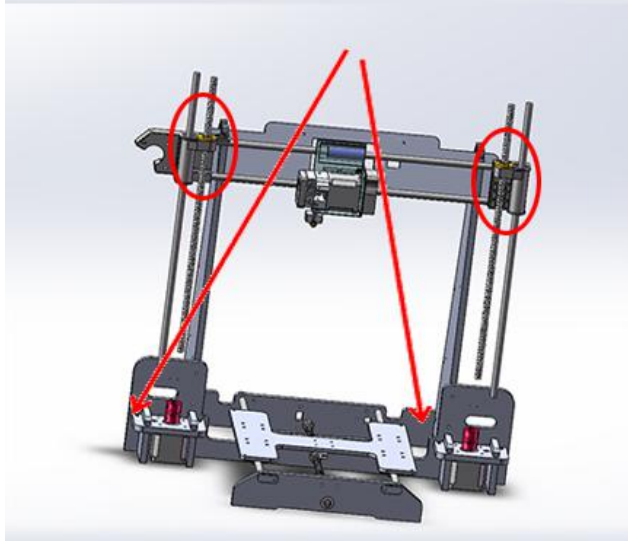
## Assembly Step 9

Loosen the top two wires on the coupling first, then screw the leading rod into the bottom of the coupling, and finally lock the jackscrew

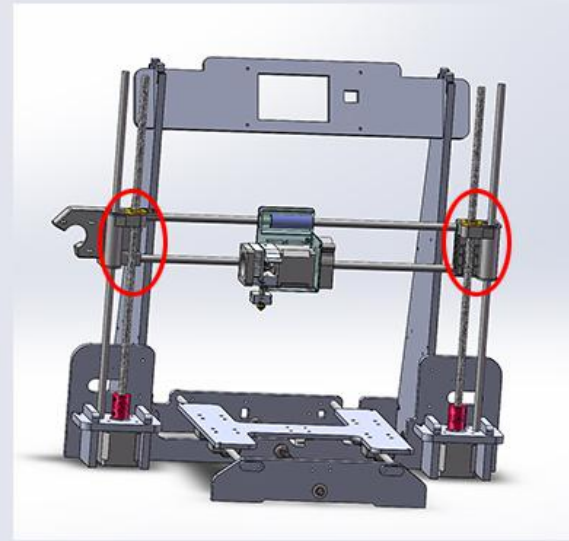
Name and Qty. of printer parts:

Item	Name	Qty
1	Step 7	1
2	Step 8	1
3.	Z axis leading rod 391mm	2
4	Trapezoidal screw	2

Before Assembly



After Assembly

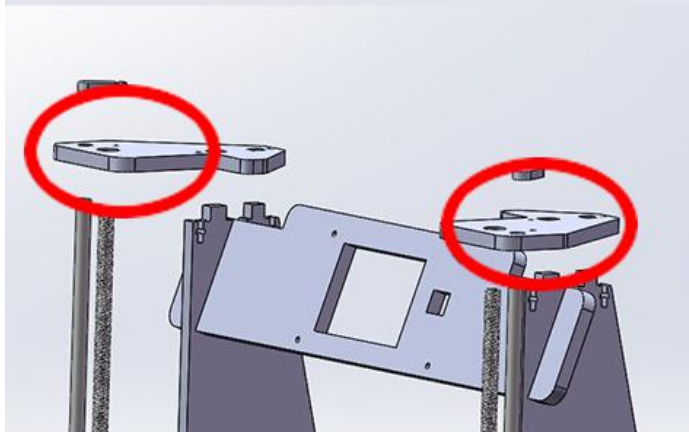


## Assembly Step 10

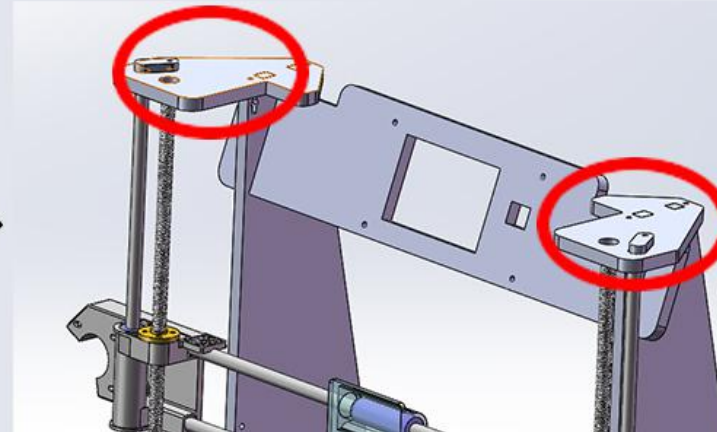
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 9	1
2	Lock plate	2
3	Lock block	2
4	Cross head screw	6
	M3*18	
5	M3 Nut	6

The red circle is assembly position

Before Assembly



After Assembly

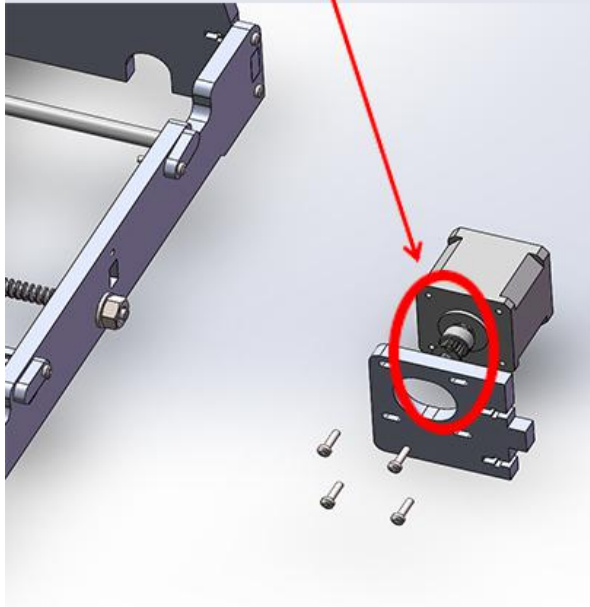


## Assembly Step 11

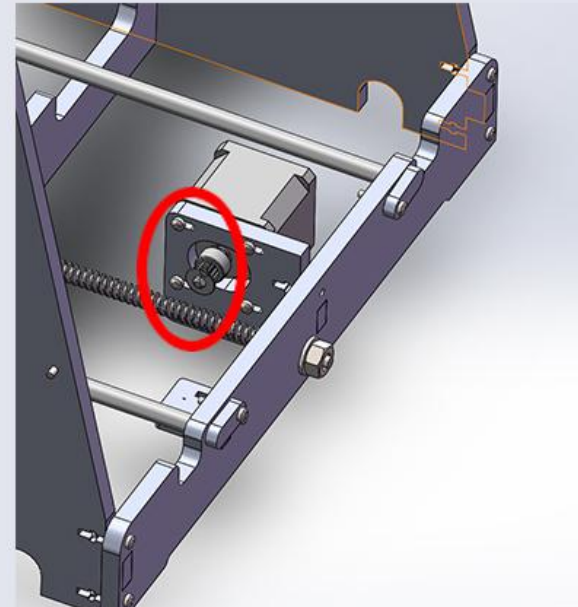
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 10	1
2	Y axis motor	1
3	Y axis motor asse mounting plate 1	1
4	Cross head screw	4
	M3*12	
5	M3 Nut	2
6	Cross head screw	2
	M3*18	

The direction of motor connection is facing left

Before Assembly



After Assembly



## Assembly Step 12

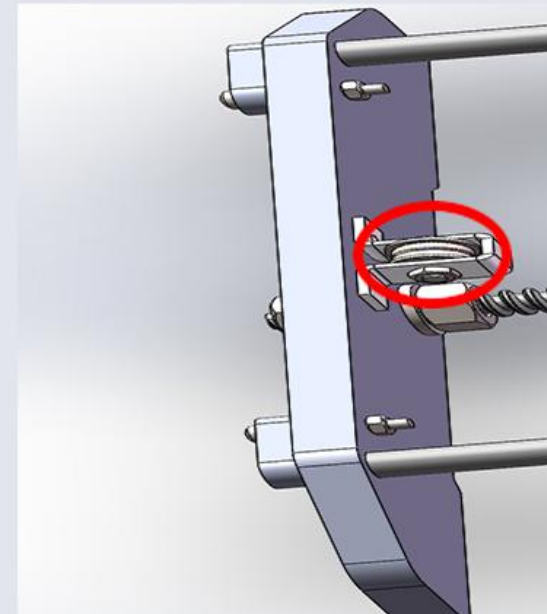
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 11	1
2	Y axis bearing set	1
3	Cross head screw	2
	M3*12	
4	M3 Nut	2

The red circle is assembly position

Before Assembly



After Assembly

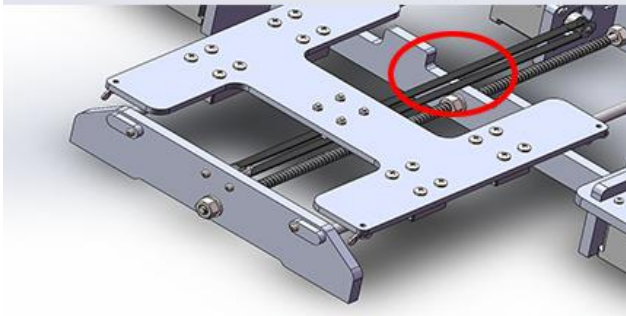


## Assembly Step 13

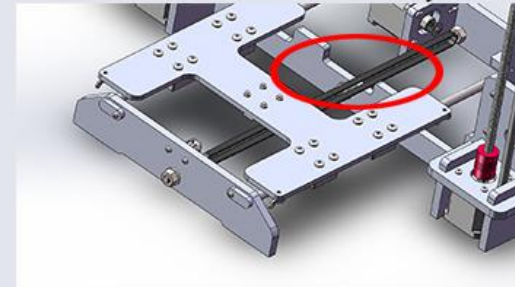
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 12	1
2	Belt	

The belt is used for X and Y transmission, and the present belt will be enough.  
Please cut the belt according to the actual length when installed.

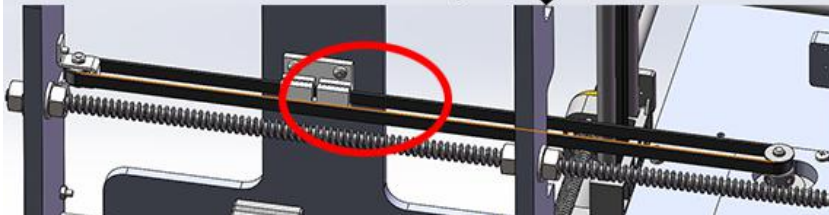
After Assembly



Before Assembly



After Assembly



Belt tightness can be achieved by  
adjusting the position of Y-axis motor

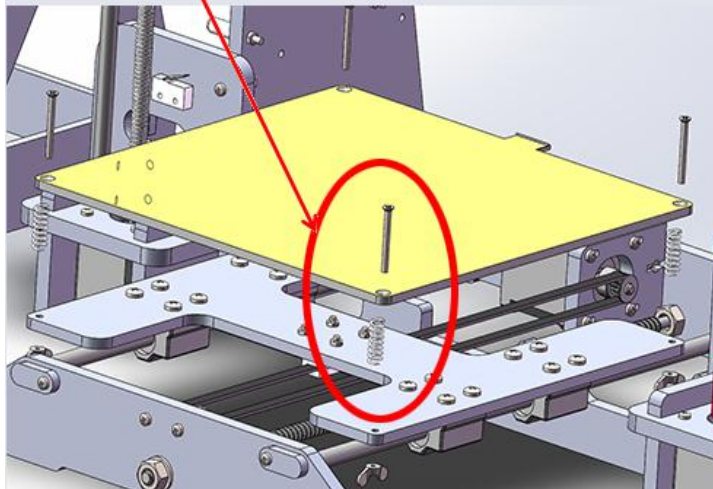


## Assembly Step 14

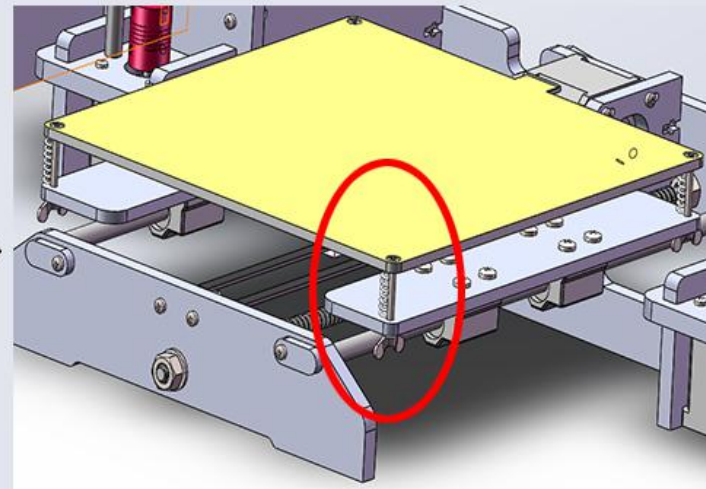
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 13	1
2	Heat bed	1
3	Spring	4
4	Cross head screw	4
	M3*30	
5	M3 Wing Nut	4

Notice: Heat bed connection is facing inside

Before Assembly



After Assembly

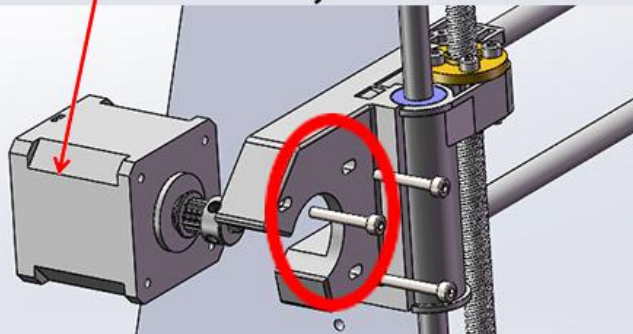


## Assembly Step 15

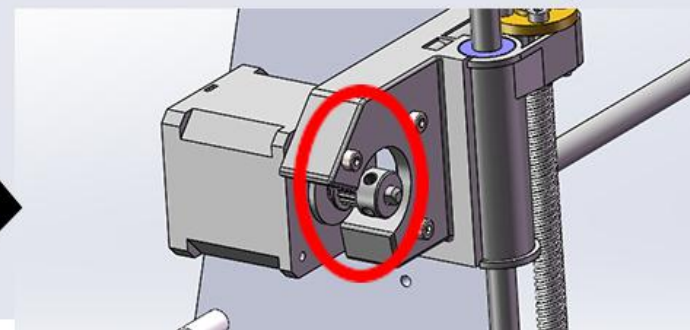
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 14	1
2	X axis motor	1
3	Hexagon socket cap screws M3*20	3

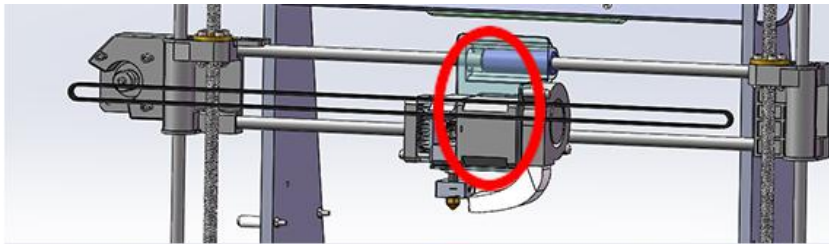
Notice: Motor connection is downward

Before Assembly



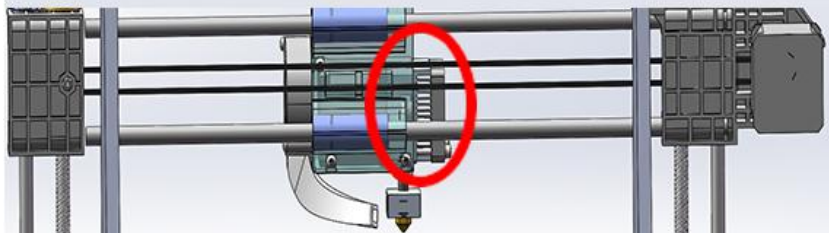
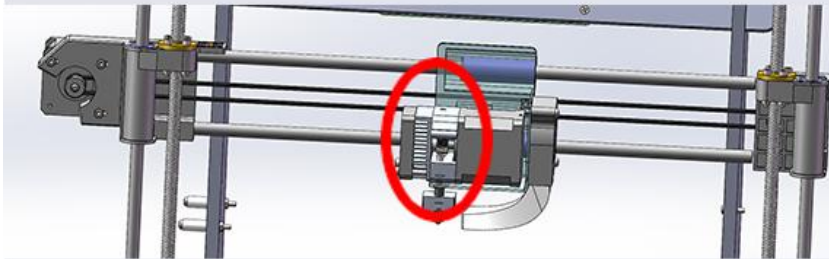
After Assembly





Before Assembly

Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 15	1
2	Belt	



After Assembly

Belt tightness can be achieved by adjusting the position of X-axis motor

Assembly Step 16

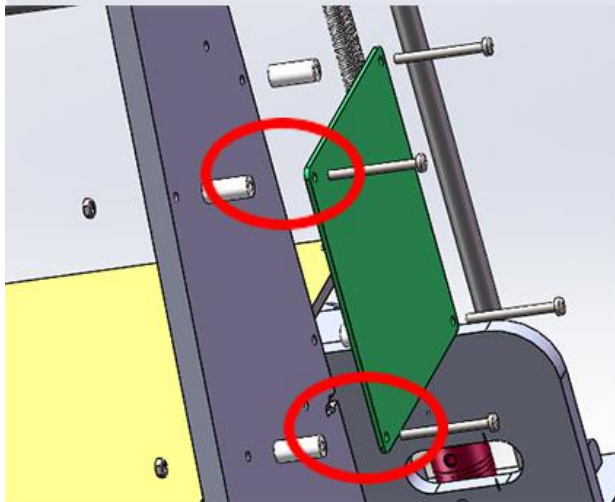


## Assembly Step 17

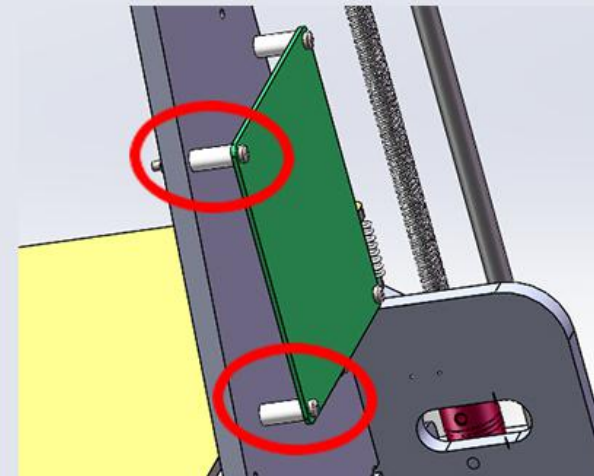
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 16	1
2	Main board	1
3	Pillar washer	4
4	Cross head screw	4
	M3*30	
5	M3 Nut	4

Notice: the main board assembly, its slots are upward

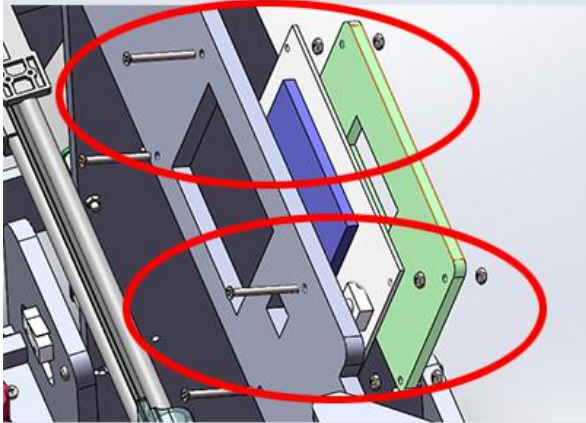
Before Assembly



After Assembly



## Assembly Step 18

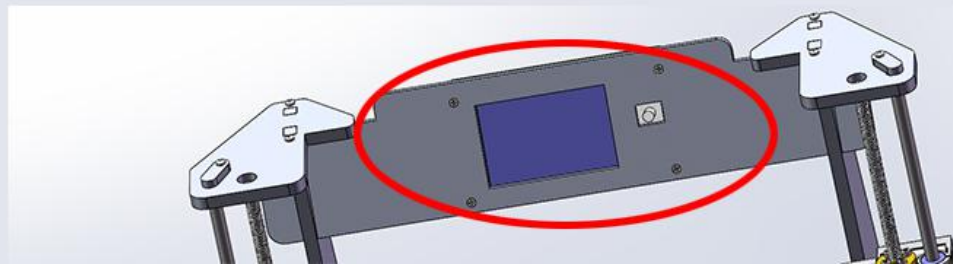


Before Assembly

Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 17	1
2	LCD 12864 screen	1
3	Screen baffle plate	1
4	Cross head screw	4
	M3*25	
5	M3 Nut	8

Notice: The plate is separated from the plate by M3 nut, then use screw to lock them

After Assembly

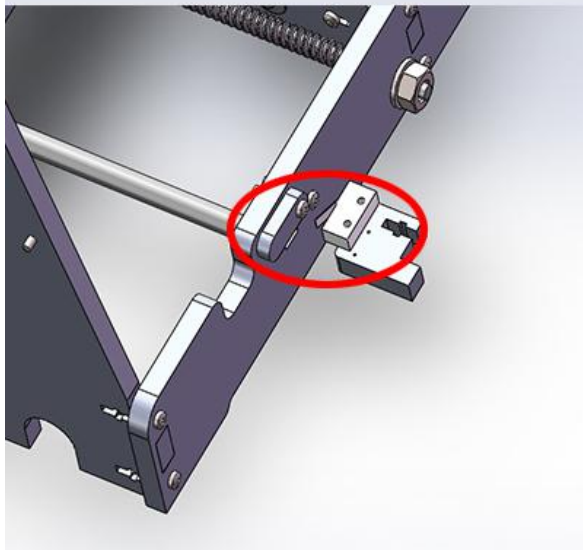


## Assembly Step 19

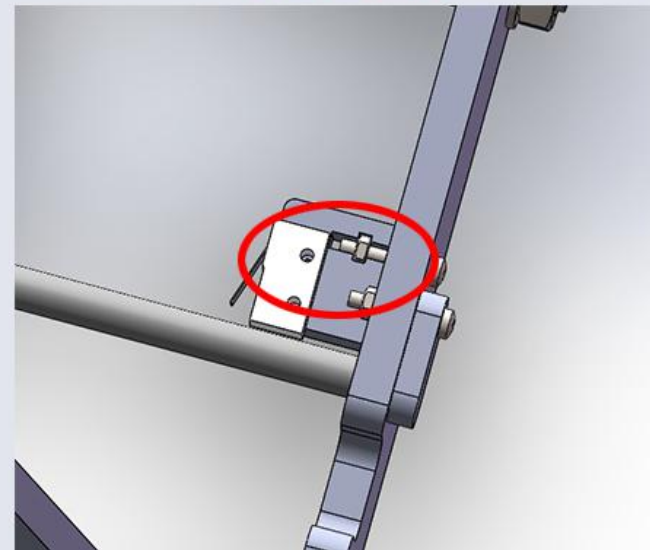
Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 18	1
2	Y axis limit switch fixed plate	1
3	Y axis limit switch (500mm)	1
4	Cross head screw	1
	M3*18	
5	M3 Nut	1
6	Cross head self tapping screw	
	St2.2*10	2

Notice: this is Y axis limit switch 500mm

Before Assembly



After Assembly

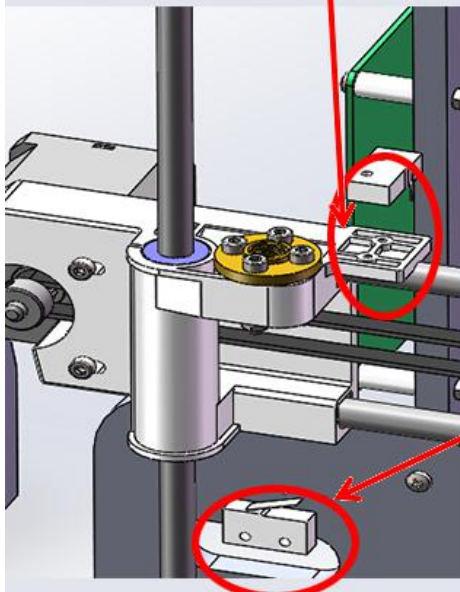


## Assembly Step 20

Name and Qty. of printer parts:		
Item	Name	Qty
1	Step 19	1
2	X axis limit switch (500mm)	1
3	Cross head self tapping screw St2.2*10	4
4	Z axis limit switch (140mm)	1

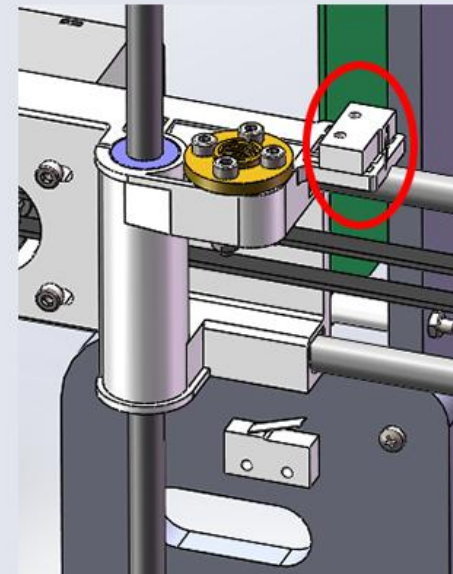
This is X axis limit switch 500mm

Before Assembly



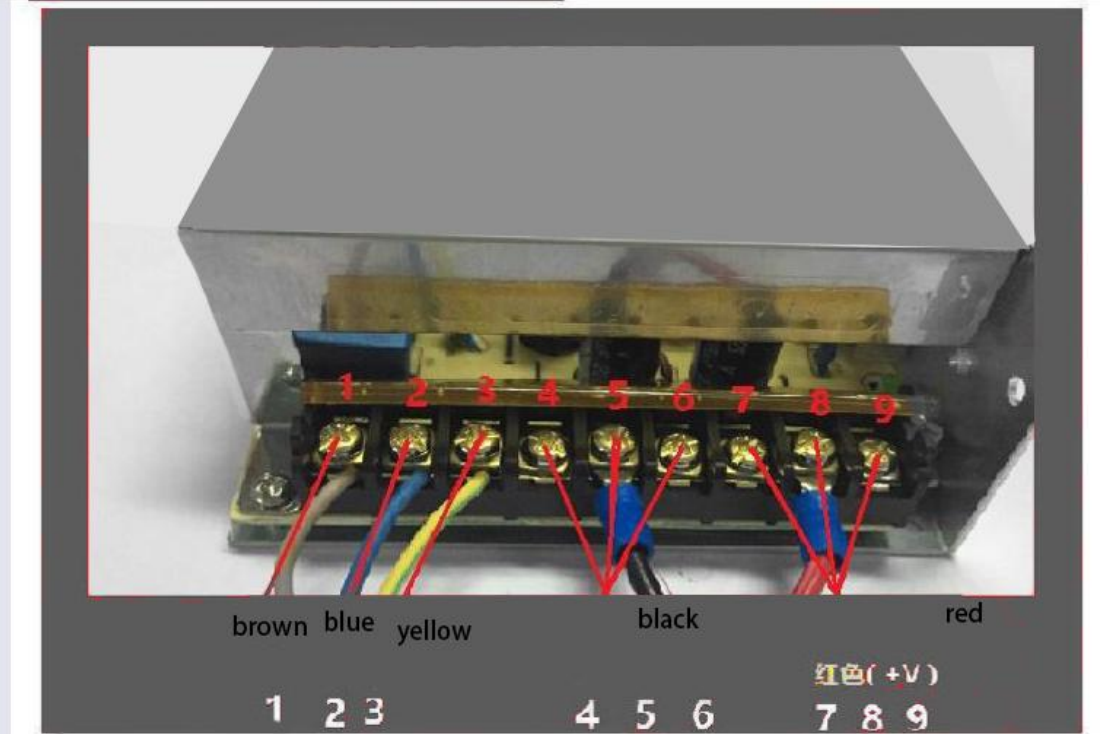
This is Z axis limit switch 140mm

After Assembly



## Assembly Step 21

Notice: This is the wiring diagram of power supply. 1, 2, 3 separately represent the line of fire (brown), Zero line (blue), ground wire (yellow). 4, 5, 6 represent negative pole (black) (-): 7, 8, 9 represent the positive pole (red) (+). To avoid danger, please assure the installation is correct!!.



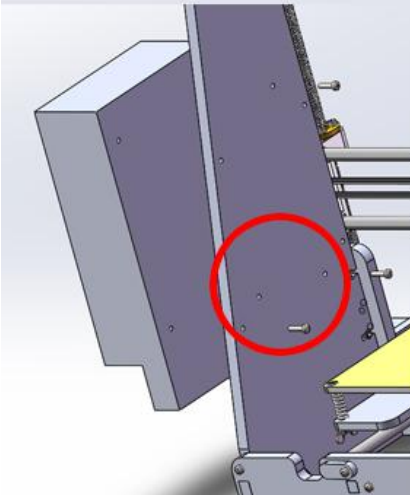


## Assembly Step 22

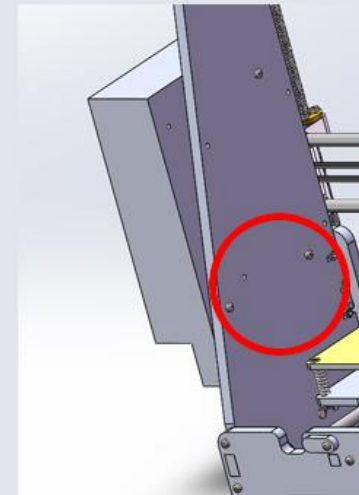
Name and Qty. of printer parts		
Item	Name	Qty
1	Power Supply	1
2	Cross head screw M3*12	3

Notice assembly holes (these two holes on the bottom of support plate)

Before Assembly



After Assembly



## Assembly Step 23

Note: Please pay attention to all the wires used in the printer especially for motor wire and limit switch wire

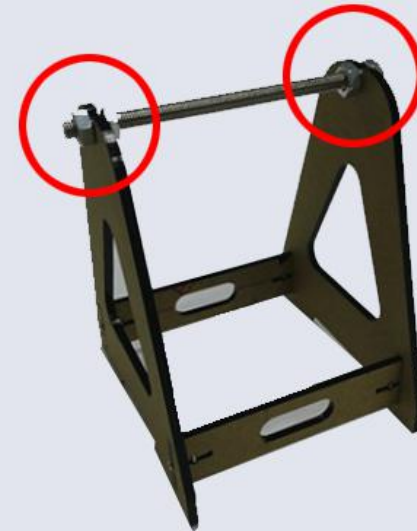
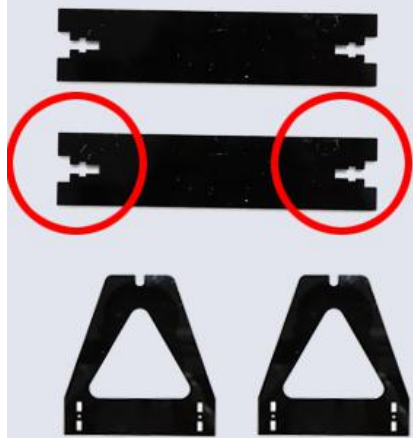
### Wire length of spare parts-EX8

NO	Item	Length
1	Switching Power	545mm
2	X axis motor wire	350mm
3	Y axis motor wire	350mm
4	Left Z axis motor wire	280mm
5	Right Z axis motor wire	700mm
6	X axis limit switch wire	500mm
7	Y axis limit switch wire	500mm
8	Z axis limit switch wire	140mm
9	Extruder motor wire	800mm
10	4010 fan wire	925mm
11	5015 turbo fan wire	905mm
12	Heating pipe wire	1000mm
13	Extruder thermistor wire	1000mm
14	Heat bed wire	500mm
15	LED screen wire	500mm

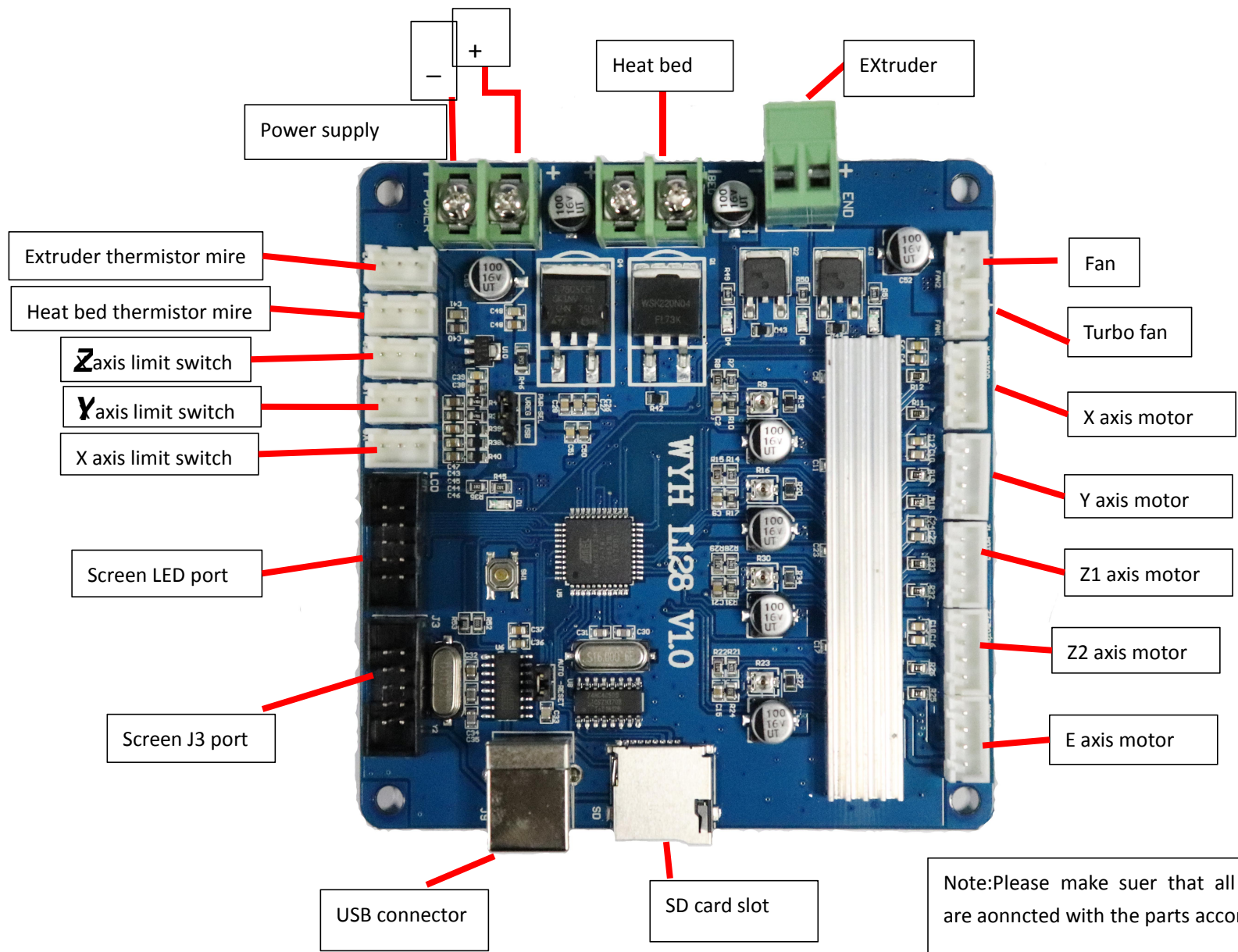
## Assembly Step 24

Name and Qty. of printer parts:

Item	Name	Qty
1	Filament holder 1	2
2	Filament holder 2	2
3	M8 threaded rod	2
4	Cross head screw M3*12	2
5	M3 Nut	2
6	M8 Nut	2







Power supply

Heat bed

EXtruder

Extruder thermistor mire

Heat bed thermistor mire

Z axis limit switch

Y axis limit switch

X axis limit switch

Screen LED port

Screen J3 port

USB connector

SD card slot

Fan

Turbo fan

X axis motor

Y axis motor

Z1 axis motor

Z2 axis motor

E axis motor

Note: Please make sure that all the ports are connected with the parts accordingly



## **Installation Complete**

- Congratulations ! You have just made yourself a 3D printer !**
- Please contact your 3D printer supplier if any puzzles during using process.**
- Thank you for choosing our products, we will always provide you more services.**