## Step 1. Assemble base frame

# ssemble parts specifications and quantity

/	/		•		9	0		
Aluminium profile 1 20*20*530mm 4pcs	Aluminium profile 2 20*20*460mm 2pcs	Aluminium profile 3 20°40°530mm 4pcs	Pad 4pcs	Screw PM5*25	screw PM4*8 4pcs	Spacer M4 4pcs		
9								
T put M4 Ance								

profile 3

1.Lock the aluminium profile 1 2pcs, Aluminium profile 2 2pcs,

Note: Before locking the screws, make sure the aluminum

file are aligned and vertical profile 1 profile 2

luminium 3 4pcs together by 8pcs screw PM5°25, same as the 3.Lock the aluminium profile 1 2pc with 4pcs screw PM5°25 Note: Do not tighten too much, enable they can be adjusted in further



profile 1

2.Assemble the pad, spacer, screw PM4\*8, T nut M4 with the luminium profile 1 together, distance from the end around 20mm, same as the illustration



Step 2, Assemble slide plate ole parts specifications and quantity ScrewPM4 T nut M4 Slide plate Pulley Plastic pillar SpacerM5 Spacer M6 Locking nut M5 62577 1pcs 2pcs 8pcs 8pcs 8pcs 8 4pcs 4pcs 6pcs 8pcs Aluminium profile 2 Screw PM5\*30 6pcs Screw PM5\*50 2pcs Screw PM5\*25 4pcs 20\*20\*460mm 2pcs

ssemble 4pcs pulley with 3pcs PM5\*30.1PC PM5\*50.4pcs elastic pillar,2pcs bearing 625ZZ,3pcs M6 spacer,3pcs M5 pacer,2pcs screw PM4\*8,2pcs T nut M4 4pcs, locking nut M5 ogether as same as the illustration, then, the left slide plate

omponent is finished ite: During assembling, make sure the position and the turn or all parts same as the illustration. The washer smooth



Assemble 4pcs pulley with 3pcs PM5\*30mm.1PC PM5\*50mm,4pcs Plastic pillar,2pcs bearing625ZZ,3pcs M6 pacer.3pcs M5 spacer.2pcs screw PM4\*8mm.2pcs T nut M4. lpcs locking nut M5 together as same as the illustration, then he right slide plate component is finished



3.Put aluminum 2,2 pcs, through Left slide plate component and right slide plate component respective, as same as the illustration Note: The pulley is on the side without hole, the slide plate is on the side with the four holes.



4.Put above aluminum 2 components into the end of the aluminum ne 3 of the bottom frame, then secured by 4pcs screw PM5\*25, as e as the illustration.



# Step 3: Assemble printing head

# ssemble parts specifications and quantity











Extruder (assembled) 1pc Switch 1pc Screw PB2\*10 2pcs

. Take the extruder(assembled), secure the limit switch using 2pcs PB2 \* 10mm screws, same as picture





3.Put the aluminum 4 component into the T nut of the left and right slide plate component, screw the screw PM4\*8 of the slide plate, san as the illustration. Move the aluminum profile 4 front and back make sure it can move freely,then lock the screw PM4\*8, remove the

aluminum 4,ensure it can move freely, lock the screw PM5\*25 of the aluminum 2, move the aluminum 4 again to make sure the movement s flexible. Lock the screws PM5 \* 25 of aluminum profile 2,move the um 4 again to make sure the movement is flexible, otherwise, se adjust it again, make sure tthe sliding table is flexible and out gap shaking after locking the screws



M4 T nut assembly techniques: First, let M4 nut and aluminum groove aligned, put into the aluminum slot, reverse loosen by a screwdriver, release M4 T Nut over the aluminum profile slot, and then positive tightening





2.Insert the aluminum profile 4 into the printing head t.same as the illustr



#### Step 4. Assemble XY axis motor and wheel

Step 41 Assertate X1 axis fictor and wheel									
Assemble p	arts specific	ations and q	uantity .						
0	0		::	0	-	-	7	9	
Spacer M6 6pcs	Spacer M5 8pcs	Motor base plate 2pcs	pulley base plate 2pcs	Bearing 625ZZ 4pcs	Screw PM5*35 2pcs	Screw PM3*10 8pcs	Screw PM4*8 10pcs	Nut M5 2pcs	
		R							
Motor 2pcs		Base	frame	T nut M4 10pcs					

 Lock 2pcs motor and 2pcs motor base plate with the screw PM3\*8. Put 2pcs T nut M4 and 2pcs screw PM4\*8 through to the motor base plate, then the left motor component and right motor component is finished.

Note: The motor outlet is consistent with the illustration





2.Take 1pc pulley base plate, through spacer M6,M5,bearing 625ZZ, screw PM6'35,then lock the nut M5. Take 3pcs T4 nut,3pcs screw Pm4'12mm, through pulley base plate,then the left pulley component and right pulley component is finished

Note: Attention the screws position and trun when assembling, make sure the smooth surface of the spacer





3.Fix the left motor component right motor component left pulley component right pulley component and aluminum by T nut M4, as smae as the illustration



#### Step 5: Assemble belt

Assemble parts specifications and quantity:



) -

Main frame 1pc Belt 2pcs Tie 4pcs

1.Pass through the belt as same as the illustration ,let the rack is wrapped with a motor gear, determine direction of the belt tighten the bottom of the metal size of the

extruder(assembled) with a tie. Adjust the distance between the motor gear and the belt. lock 2pcs meter screw of the gear. loose the motor plate screws ,then tighten the belt , after scure the screws.

k
2 Pass through the belt as same as the illustration let the rack is wrapped with a motor gar, determine direction of the belt, lighten the top of the metal sold of the extruder/seasembled) with a ite. Adjust the distance between the motor gar and the belt, lock 2pcs meter screw of the gar-loose the motor prise screws of the gar-loose the motor prise screws. The significant his belt with the belt screws of the gar-loose the motor prise screws of the gar-loose the motor prise screws. The significant his belt screws the significant his best screws of the gar-loose the motor prise screws the significant his best screws the significant his prise screws the significant his prise screws the significant his signifi







after scure the screws.



Step 6, Assemble Linear bearings and Z-axis motor

## Assemble parts specifications and quantity:

San San				-0			
footlock 2pcs	Linear bearing 4pcs	Screw nut 2pcs		Screw PM3*8 24pcs	Z-axis motor component 2pcs		
	9	0					
Screw PM4*8 8pcs	T nut 8pcs	Bearing seat 2pcs					
1. Assemble 1pc footlock , 2pcs bearing seat, 1pc screw							

eed to assemble 2 set.









#### Step 7, Assemble Zaxis motor component

1pc

# ssemble parts specifications and quantity;



2pcs 2ncs

Insert the solid end of the pole to the hole on acrylic board of Z axis motor holder, insert the barrel of the motor holder into ne hole, do not let the pole stand out, same as the lustration. Then, put the footlock component with the pole @ 528 together. Thread the the pole T8\*453 through the T nut. ect with the coupling hole on the motor put the bearing

at component on pole T8\*453 same as illustration (The T out is at the outer end),then the Z axis carriage is finished. otal need to assemble 2set te: When assemble the pole, keep Pole T8\*453 short 3mm

nan the pole Φ8\*528, same as the illustration



Adjust the T nut of the acrylic plate of the Z-axis carriage.put the axis carriage in the aluminum profile 2 . ensure the M3 holes of ootlock component is outsite , see the picture below. Align Pole® 528 with the hole of the aluminum profile, let screw PM4 \* 20 rough the holes of the aluminum profile 2 put the spacer M4 on it, then connect with the M4 hole of the Pole \$8\*528,same as the Ilustration : rotate the Pole T8\*453 slide the footlock componen

nd the bearing seat to the top, lock the 2pcs screws PM4"20 in he aluminum profile 2 , then lock the T4 nut and meter screw of he bearing seat, rotate the Pole T8\*453,drop the footlock down. ake sure it can move freely. Otherwise, please lossen the meter crew,readjust it again. Finally, lock the 4pcs screw of the oupling ,T nut,screw on the acrylic plate, rotate the pole T8\*453 sain.make footlock can slide up and down freely.



outside.



2ncs 4ncs



3.Repeat the number 2, assemble other Zaixs carriage, same as the illustration.



#### Step 8. Assemble feeding motor

Assemble parts specifications and quantity:











amman





Screw PM3\*20 1pc



Screw PM3\*25 2pcs







Air cock Φ4 1pc Secure feeding motor, motor holder, feeding seat with 2pcs

lote: The position for all parts can not be misplaced



2.Loosen the meter screw on the motor gear, adjust the gear osition,once it is smae as the illustration, lock the meter screw



Feeding mouth

3.Assemble the feeding component, screw IM5\*10.spring,screw PM3\*20 and Air cock togheter, same as he illustration





4.Lock the feeding motor component with 2pcs screw PM4\*8 and T ut M4.same as the illustration



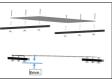
Feeding extruder assembly



Put 6pcs KM3 \* 30 screws through the heat bed,then lock om with the nut M3, same as the illustration,put spring brough the KM3 \* 30 screws, then, extending from the hole of motor component, rotate the screw in the same direction, let the e beam.screw into M3 butterfly nuts, adjust and keep 8 mm on the heat bed and the beam

8ncs 1pc 2pcs

> 3.Rotate 2pcs Pole T8\*453,keep the left and right footlock at the same plane, secure the heat bed component and footlock with 8pcs screw PM4\*12. The towline bracket is close to the side of the feed platform move up and down, make sure it can move freely, if not freely, please lossen the screw PM4\*12 to adjust it untill it can move



2. Assemble the towline bracket and beam together with

















firection shuld be downward



Screw PM3\*20 4pc



Screw PM3\*45 4pc



T nut M4 3pcs



Nut M3





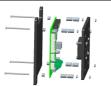
1.Secure 1pc cover and 1pc fan with 4pcs screw PM3\*20 and nut M3 ote: The fan's position same as the illustration, the wind





4.Fix the electronic board component in the groove of aluminum profile 2 by T nut, then lock them by screw PM4°8, same as the illustration.

2.Put the scew PM3\*45 through the cover, plastic illar2,electronic board,Plastic pillar 1,board holder the lock m by M3 nut, same as the illustration.

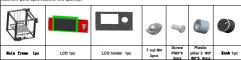


3.Put 3pcs screw PM4 \* 8 through the board holder,then lock om with the T nut M4 screw on the boat nut M4

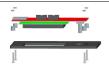


Step 11: Assemble LCD

# Assemble parts specifications and quantity:



1. Put the screw PM3 \* 20 through the LCD holder, Plastic pillar
3. PCB board of the display, then lock them by M3 nut
unts, then lock the screw PM4\*8, same as the illustration
unts, then lock the screw PM4\*8, same as the illustration.



2.Put 3pcs screw PM4\*8 through LCD holder, then, lock by nut M4,then insert the knob, same as the illustration







# Step 12: Assemble power supply Assemble parts specifications and quantity Screw Main frame 1pc Power supply 30A 1pc T nut M4 3pcs PM4\*8 3pcs Note: Different countrys are different voltages , please select he correct voltage by the switch. 2.Fix the power supply component in the groove of aluminum profile by 3pcs screw PM4\*8, same as illustration

# Step 13, Assemble feeding holder

## Assemble parts specifications and quantity:



Main frame 1pc





T nut M4 2pcs









1.Assemble 1pc plate of feeding holder with 1pc Hexagon Screw,2pcs nut M8 together, same as the illustration



2.Put 2pcs screw PM4\*8 through the plate of feeding holder then lock with T nut M4



4 2pcs Screw PM4\*12 2pcs Nut M8 2pcs plate of feeding holder 1pcs

3.Fix feeding holder component in the groove of aluminum profile by 2pcs screw PM4\*12.same as the sillustration (Put the material tray hang onto the rod of the screw)







# Step 14: Assemble Towline 1

## ssemble parts specifications and quantity:



1pc

Assembled main body Towline 1 1pc

Bottom plate 1pc

Screw KM3\*10 2pcs

Nut M3 2pcs

T nut M4 2pcs

Screw PM4\*8

Screw KB3\*8 2pcs

2pcs

1. Assemble 1pc towline 1 and 1pc bottom plate with 2pc screw 3.Fix towline 1 component in the groove of aluminum profile with 2pcs screw PM4\*8, same as the illustration 2pcs screw PM4\*8, same as the illustration

2.Put 2pcs screw PM4\*8 through the bottom plate of the owline,then lock the T nut M4



4.Align the other end of the towline 1 with the towline bracket hole o the beam then lock with 2pcs screw KB3\*8





#### Step 15: Assemble Towline 2

# ble parts specifications and quantity:



Main frame1pc







Nut M3 Screw KM3\*10 2pcs 2pcs

1.Assemble towline 2 and plate with 2pcs KM3\*10. 2pcs nut M3.lock the screw same as the illustration





Plate 1pc

3.Fix towline 2 component in the groove of aluminum profile with 2ocs screw PM4\*8.same as the illustration



2.Put 2pcs screw PM4\*8 through plate, lock with T nut M4.same as illustration. Cut the Decorative strip to the ppropriate length, press them into the aluminum profile rooves, same as the illustration



4.Align the other end of towline 2 with the hole of the printing head ent, then, lock them with 2pcs screw KM3\*6





## Step 16: Assemble Decorative strip and Feeding tube

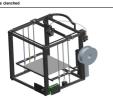
#### Assemble parts specifications and quantity:



1.Put the feeding tube into the hole of the Air cock,insert lustration,move the feeding tube up and down to make sure it

teding tube, press the outer plastic ring of Air cock, loosen

3.Align the end cover with the end aluminum profile, then press the plastic ring, stuck the feeding tube, same as end cover in the groove of the aluminum profile, same as illustration nd cover in the groove of the aluminum profile, same as illustration



2.Cut the decorative strip to the appropriate length, press nem into the aluminum profile grooves, same as the





# Step 17, Assemble limit switch

Assemble parts specifications and quantity:

		1	7	٥		~	8
Maine frame 1pc	switch 2pcs	Switch seat 1pc	Screw PB2*10 4pcs	T nut M4 2pc	Screw PM4*8 2pc	Screes PM3*30 1pcs	Fing nut M3 1pcs

1.Secure the limit switchs and the Switch seats by using 2pcs PB2\*10 screws each same as illustration





4. Take a M3\*30 screw and a wing nut through the M3 hole , adjust the M3\*30 screw to a suitable heigh, then secure the wing nut.





 Fix switch component in the groove of aluminum profile with 2pcs T nut, then lock 2pcs screw PM4\*8,same as the illustration



# Step 18. Connecting wire

parts specifications and quantity









Switch wire component

Main frame 1pc

USB cable 1pc

LCD connect line 2pc

Motor wire 5pcs

tane 1R

Red and black wire 2pc

Power cable 1pc

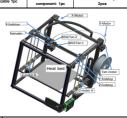
Towline 1 wire

Towline 1 wire component

Free nack test to test

40.00





# connection diagram for the electronic board and the LCD

1. Open the cover of the electronic board

me as above illustration

2.Connect the terminal of the electronic board and the LCD with the LCD cable 1.LCD cable 2.same as above illustration. 3.Plug the motor wire to the terminal of the electronic board.

4.Plug the switch wire of the X.Y.Z to the terminal of the electronic board, same as above illustration

5.Connect the Heatbed cable and the thermistor to the

nainboard Rinsert the wire terminals of the printing head fan into the

erminal of 4010 Fan-1, 4010 Fan-2 on the electronic board . Plug the terminal of the printing head heading plate to the minal of the Extr.Thermistor, then lock the soaked tin wire of the heating plate and Extruder terminal of the electronic oard.

7.Connect the electronic board with the power supply, the red vire connect to the positive the black wire connect to the egative. 8.Connect the red soaked tin wire to the L terminal of the

ower supply, the black soaked tin wire connect to the N erminal of the power supply. The double color soaked wire connect to the ground terminal Plug the power supply cable adjust the printer make sure it. an run,wrap the wire with the tape. Finally, close the cover.



Power supply terminal