Moai by Peopoly

Kit Installation Guide

Please find these 3 bars

- They are labeled:
- “Left1”
- “Left2”
- “Left3”

Please get 4 screws from the bag labeled “BH M6x12”

- And screw two per bar **<u>half way</u>** on “Left1” and “Left3”

Please find these 3 bars

- They are labeled:
- “Right1”
- “Right2”
- “Right3”

Please get 4 screws from the bag labeled “BH M6x12”

- And screw two per bar **<u>half way</u>** on “Right1” and “Right3”

Please get 4 screws from the bag labeled “BH M6x20 “

- These are for Left2 and Right2 bars. 2 Each bar. Use it later

Please find assembled front and back frame labled Front and Back

- The front frame has labels start with Front
- The back frame has labels start with Back
- The side of each frame that is facing outward is where the sticker is located

Put Front and Back Frame in parallel on the table

- Put Front on the left hand side, sticker facing left. Rubber feet facing you
- Put Back Frame on the right. Sticker facing right. Rubber feet Facing you.
- Where Sticker is facing is important. The stickers for the front and the back should be facing away from each other

Install Right1, Right2, Right3 bar between Front and Back frame

- First Install Right3, put the screw between extrusion and slide all the way down toward to rubber feet.
- Then Install Right2, Use the previous found BH M6-20 to secure it in the middle by locking from outside (ADD MORE)
- Finally Install Right1
- Sticker side of bar should face outward

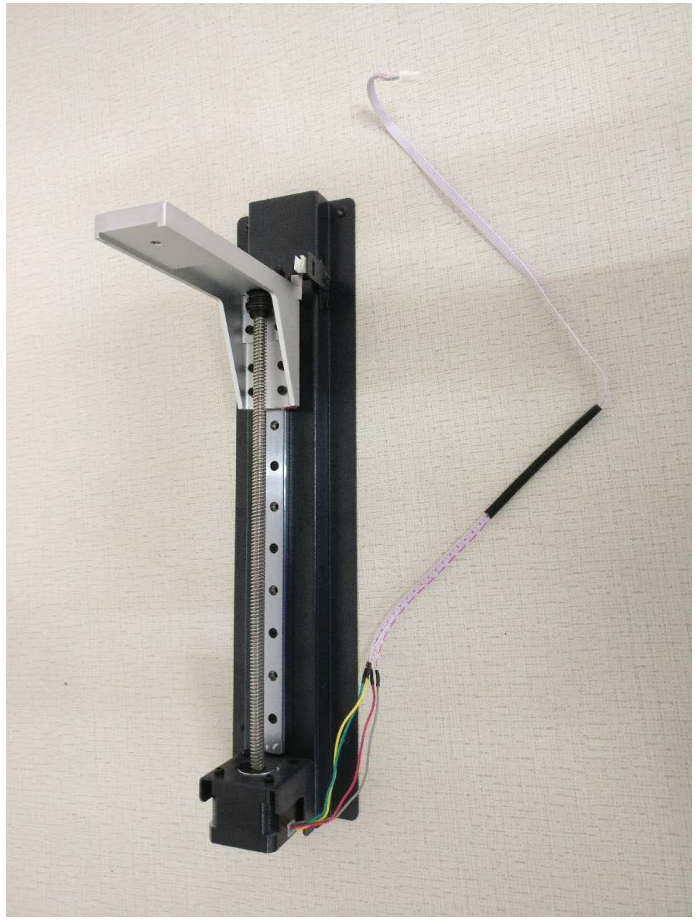
Install Left1, Left2, Left3 bar between Front and Back frame

- Flip the frames over
- First Install Left3, put the screw between extrusion and slide all the way down toward to rubber feet.
- Then Install Left2, Use the previous found BH M6-20 to secure it in the middle
- Finally Install Left1
- Sticker side of bar should face outward

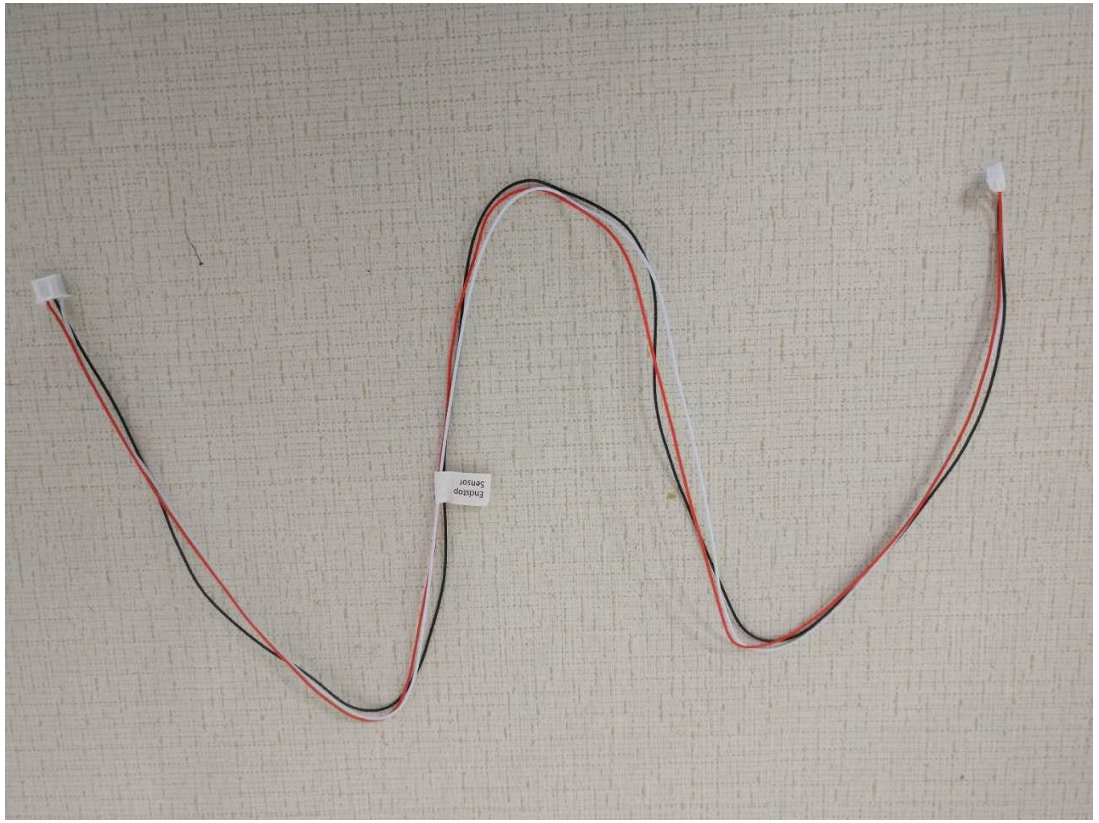
The frame should look like this when it is done correctly

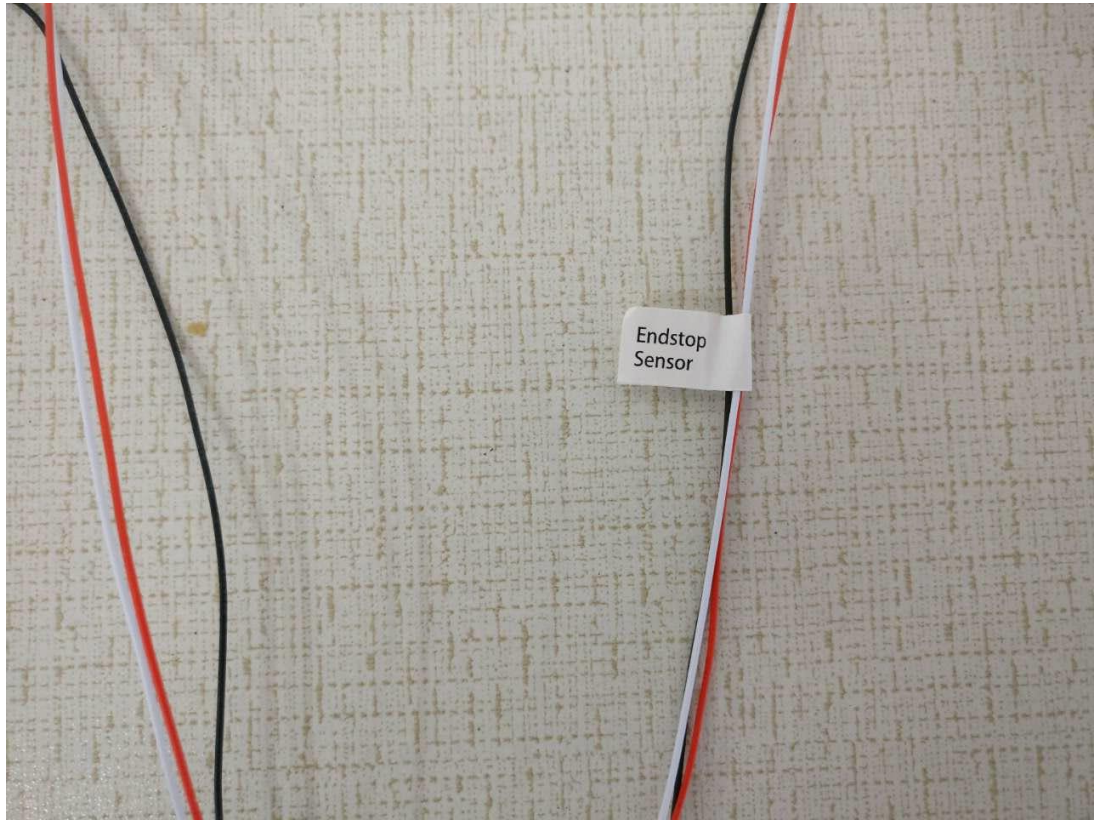
- Stickers from all 4 sides should facing outward, like the picture shown

Find the assembled Z-Axis in the box that looks like this

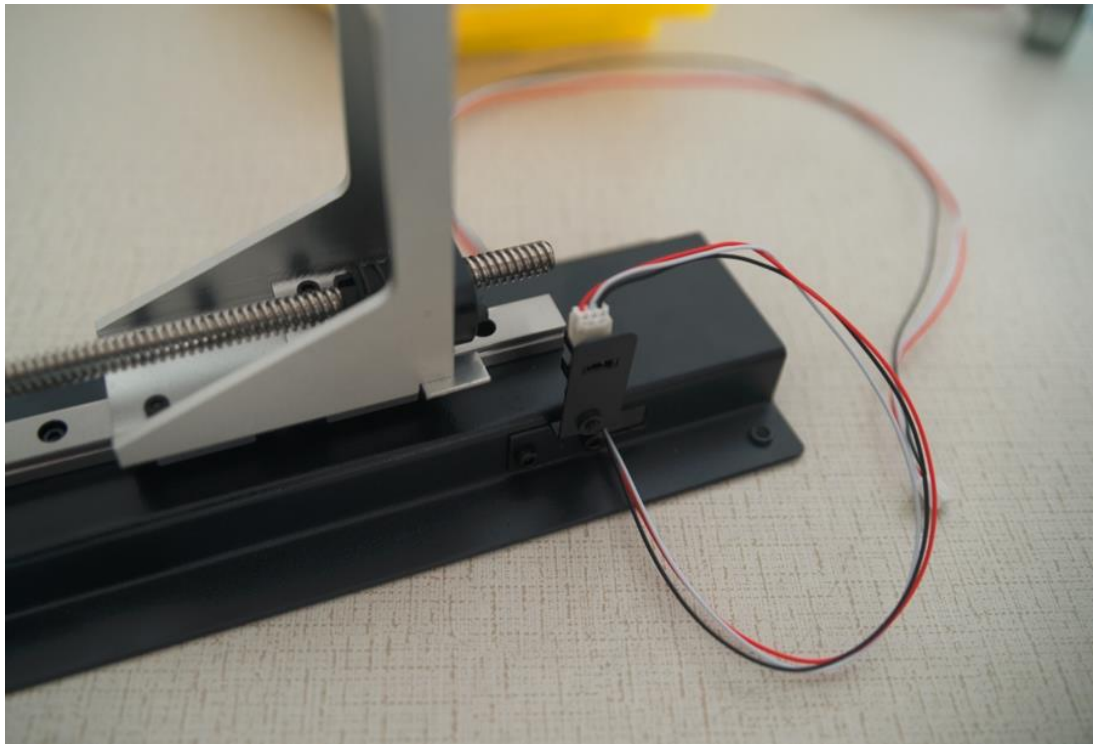


Find the Endstop Sensor cable that looks like this

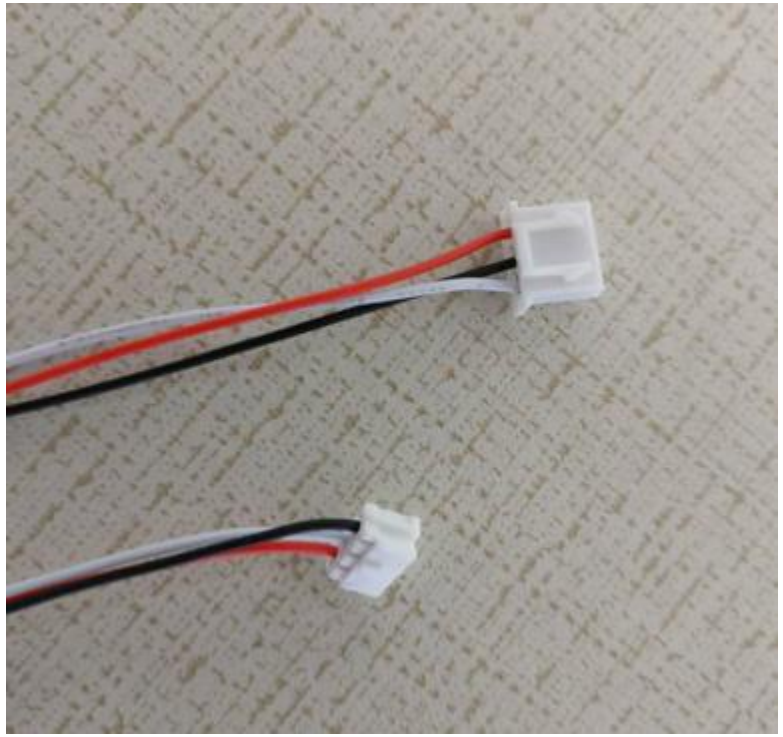




Connect Endstop Sensor cable to Z-axis as following



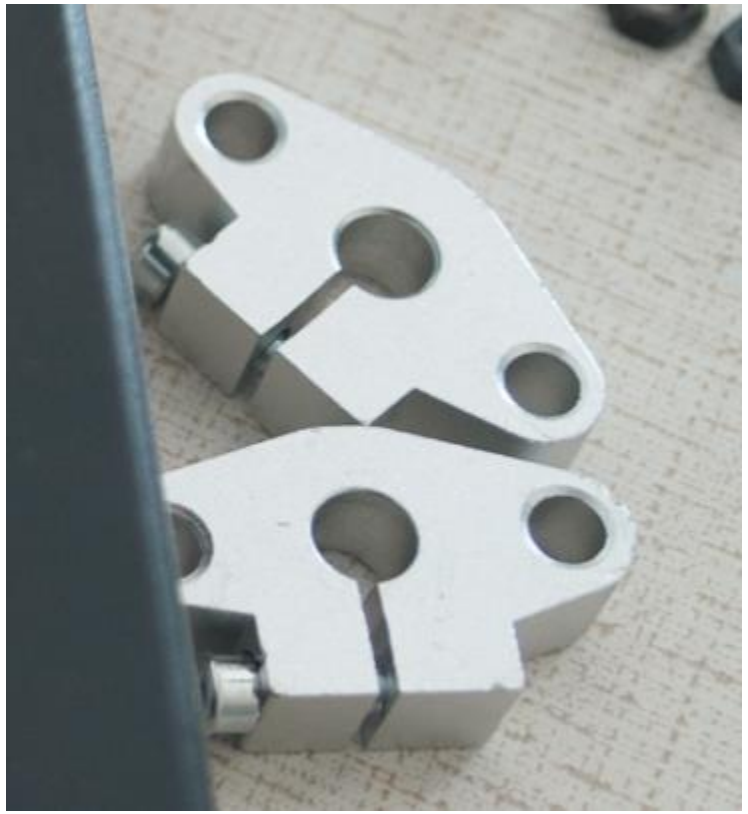
- The small end of the Endstop Sensor cable going to the white socket



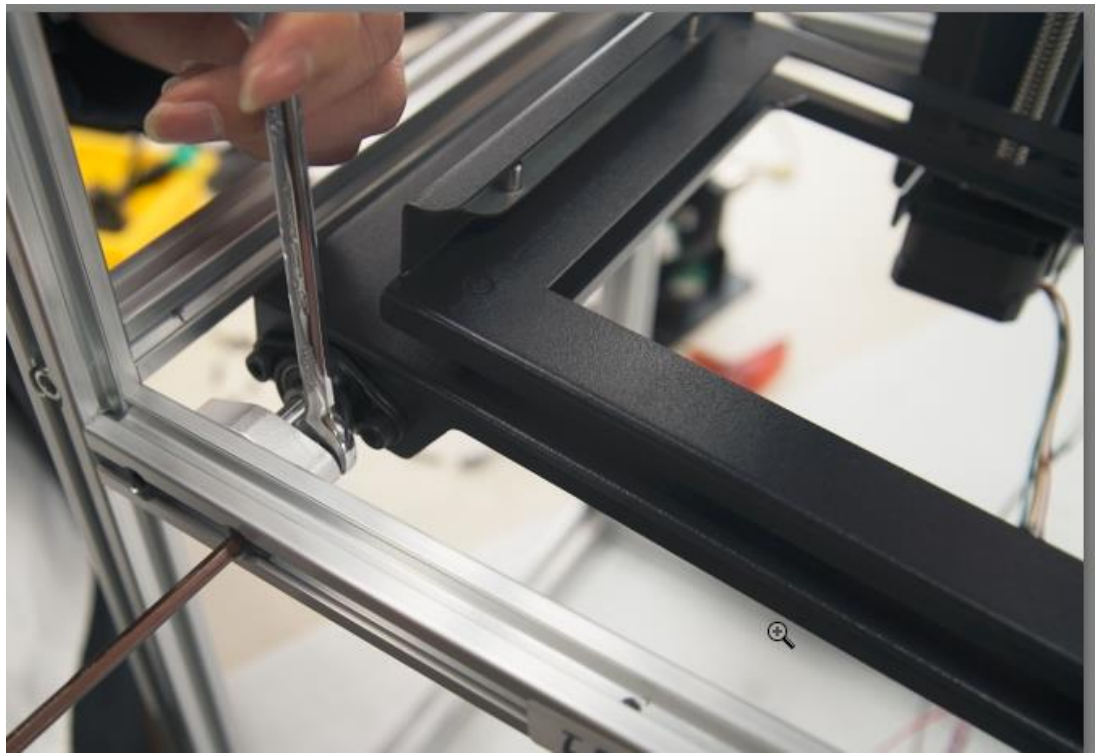
Find 4 CH M3-20 screws and use it to Mount Z-Axis to Back frame

Once the Z-Axis is secured, find the Platform, it comes assembled

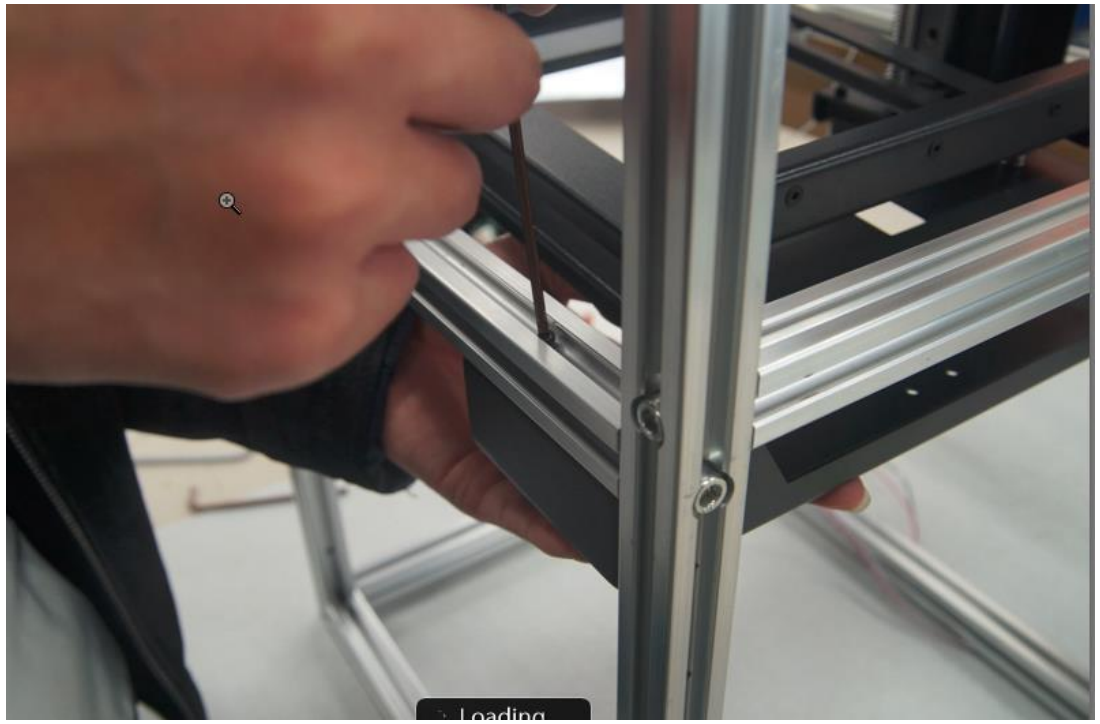
Find 4 CH M5-27 screws and two silver looking bracket



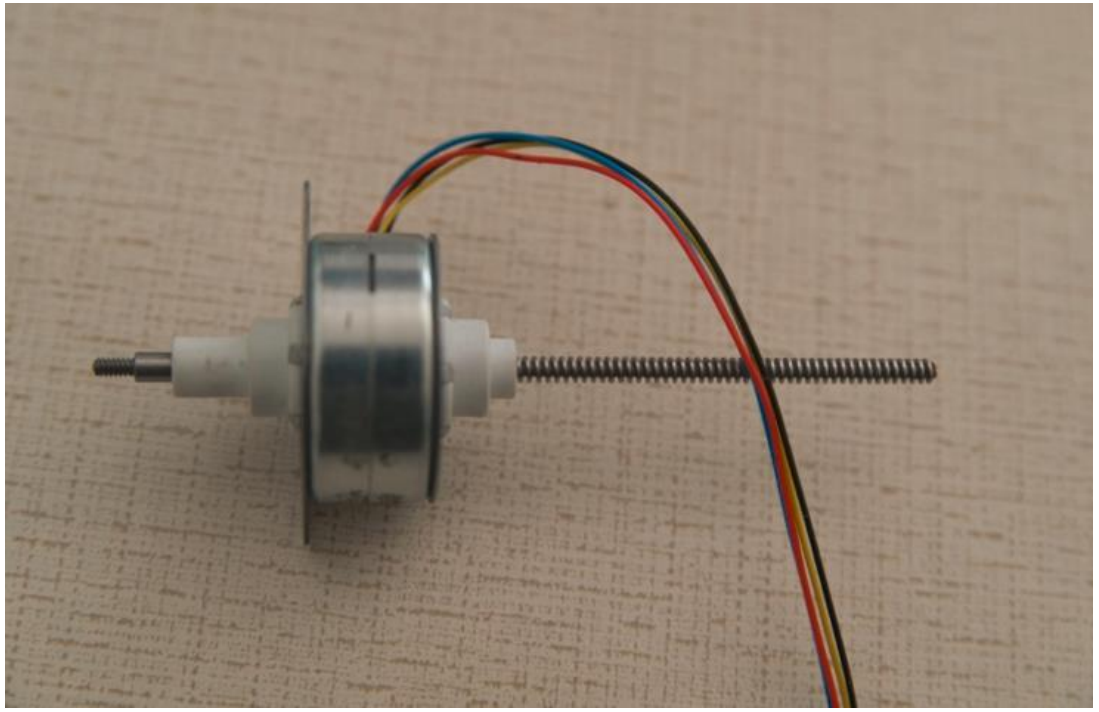
Put the Silver Bracket on the Platform's metal rod
Install the Platform cross from Front and Back frame with the beam is close to the Left Frame
Use CH M5-27 screws to secure. Should install both Silver Brackets first before tightening. Silver Brackets will tough both Front and Back frame.

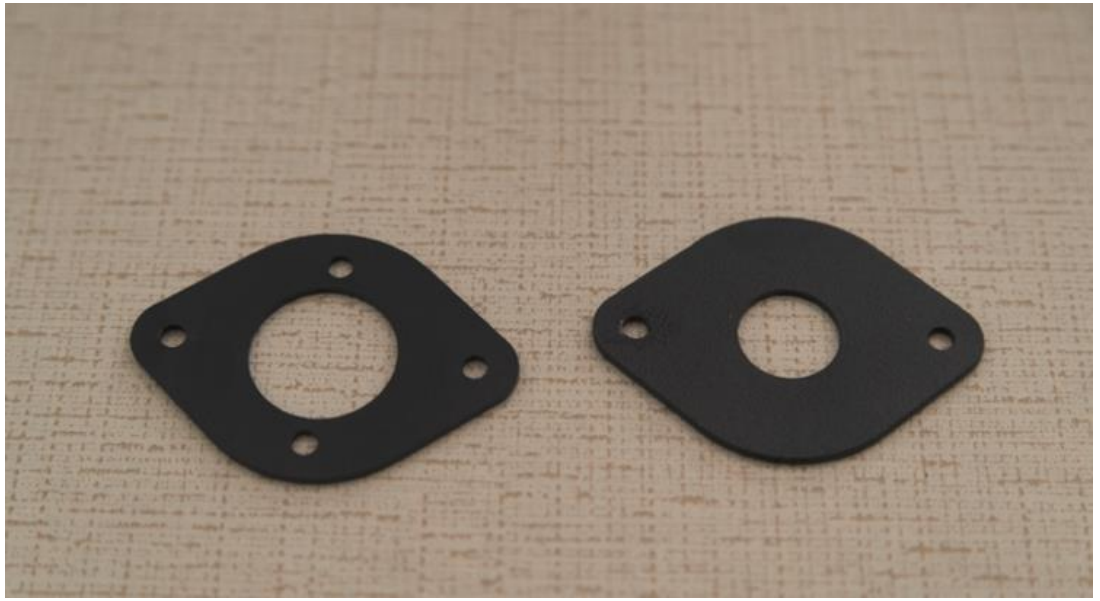


Find the below metal piece
secure it with between Front and Back frame near Right side. 4 CH M3-20 screws

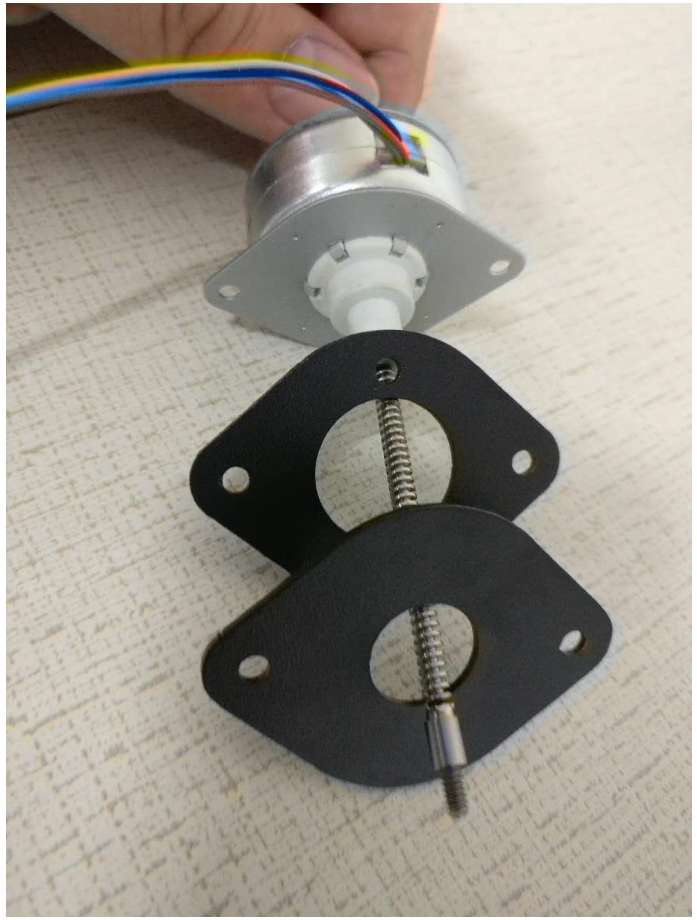


Find the Rise Motor and the two Brackets

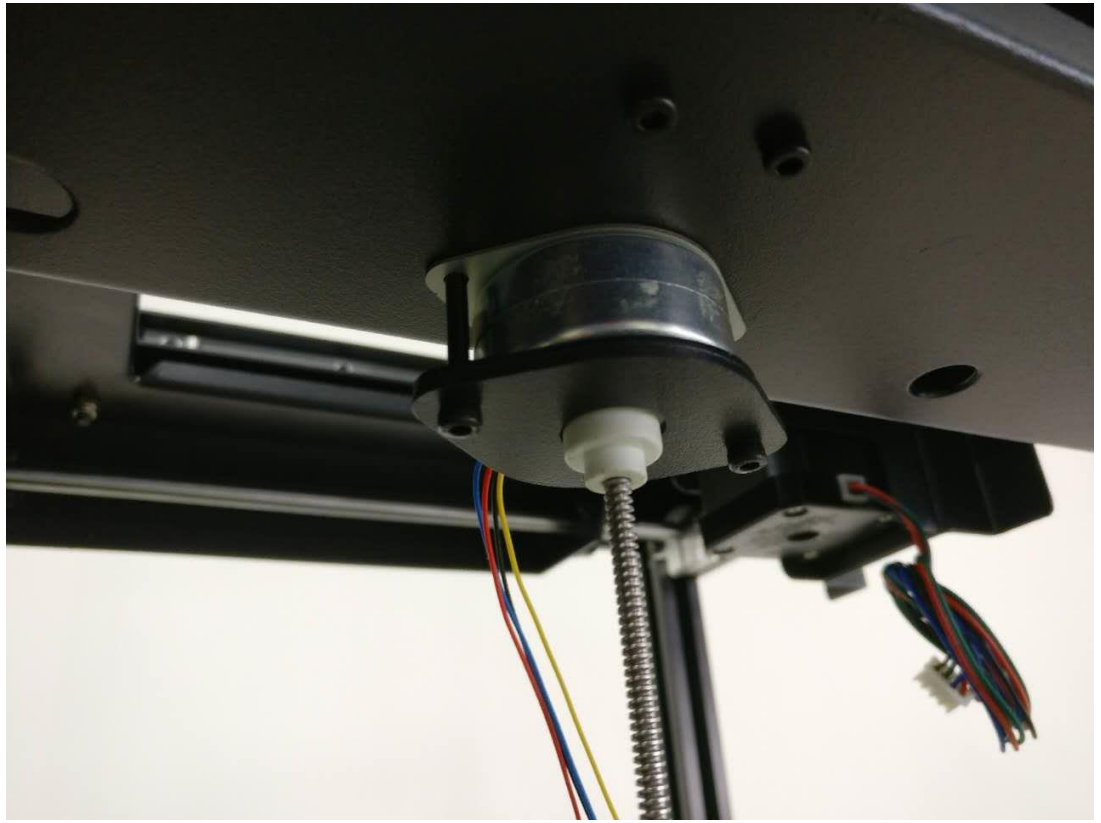




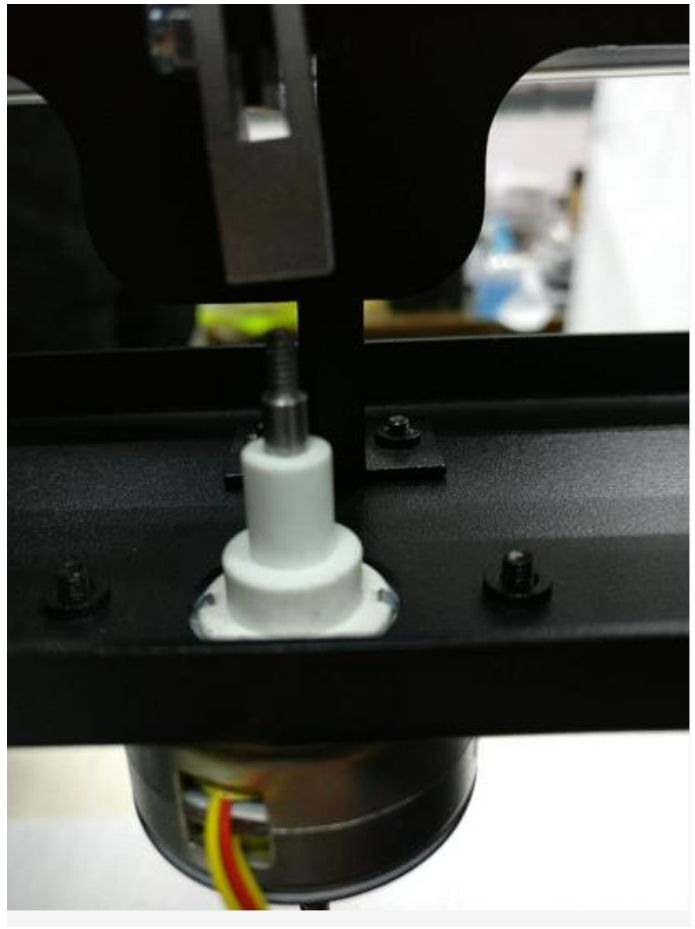
Install Brackets on Rise Motor like this

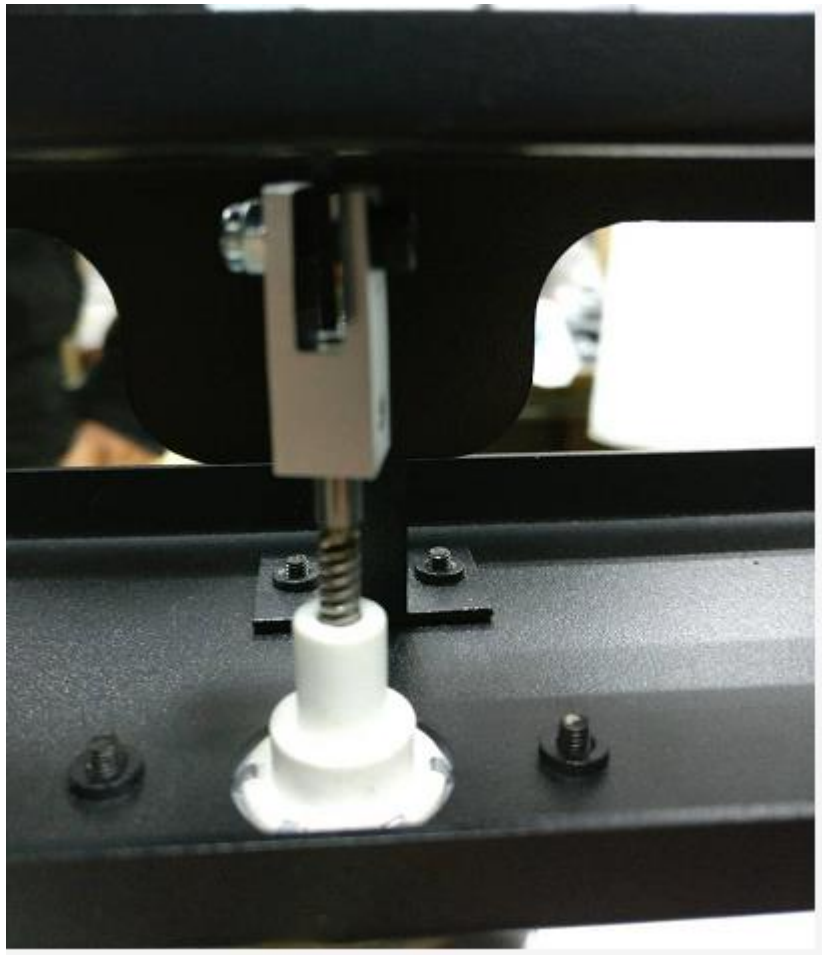


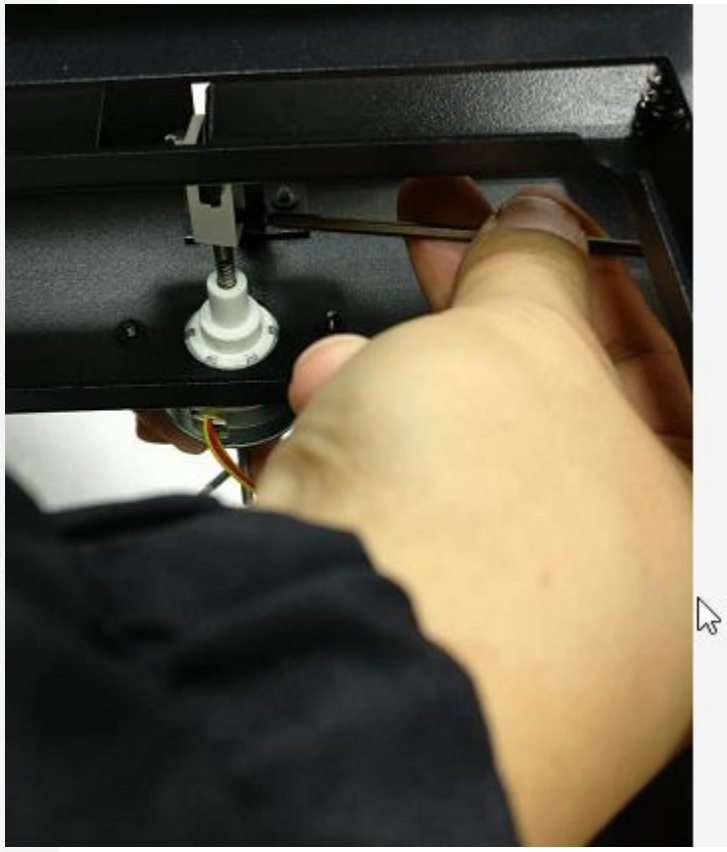
Secure Rise Motor with CH M3-25 from the bottom near Right frame



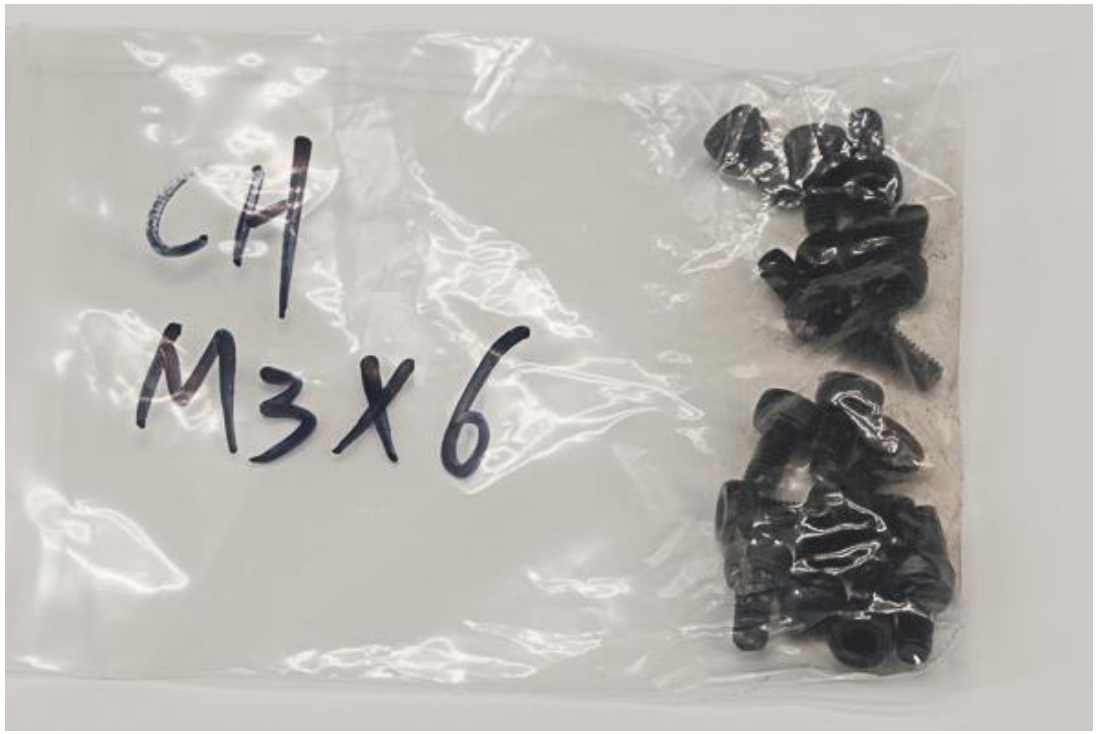
Use hand to turn the long threaded beam on Riser Motor upward, such that it screws into the tiny Silver Metal Part.
Move the beam up to a point where the unthreaded metal cylinder touches Silver Metal Part. The use the CH M3-4 to tighten it. No need to over secure it. Make sure the Silver Metal Part is straight with the Riser Motor's beam



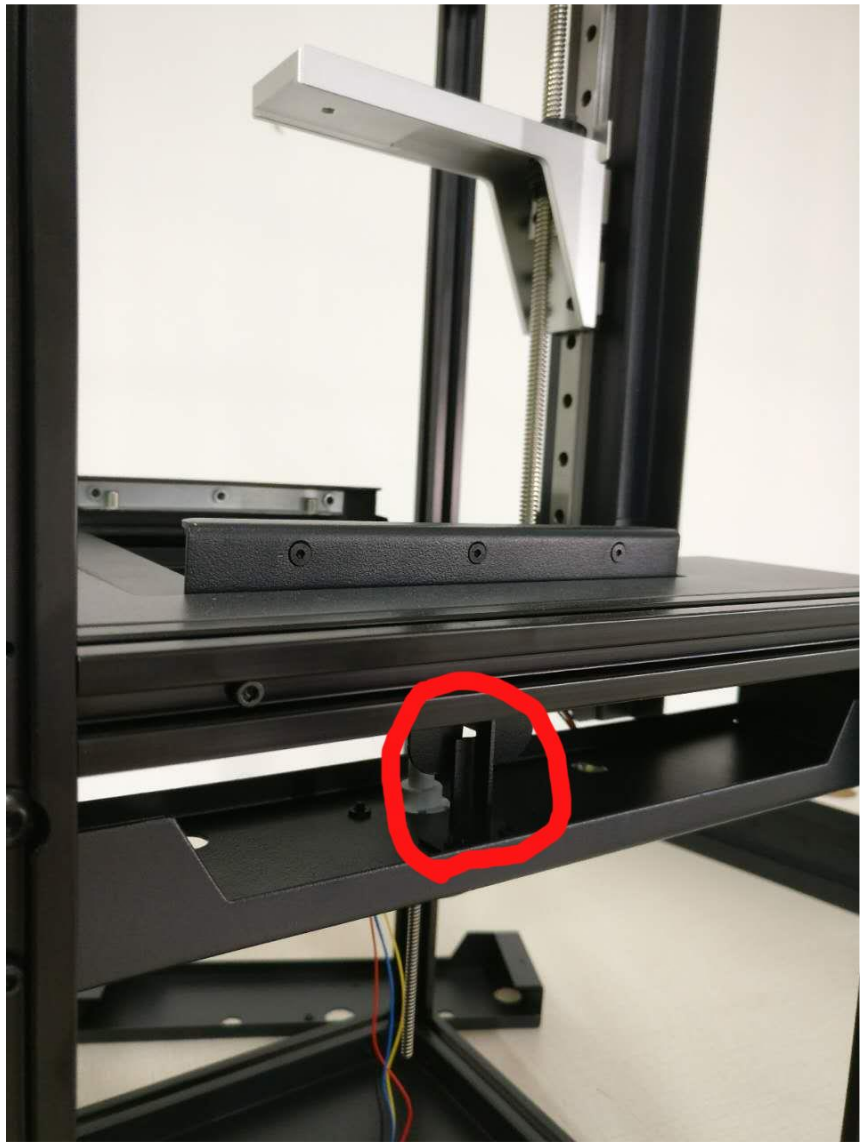




Find this Metal Piece with Hook. And 2 CH M3-6 screws

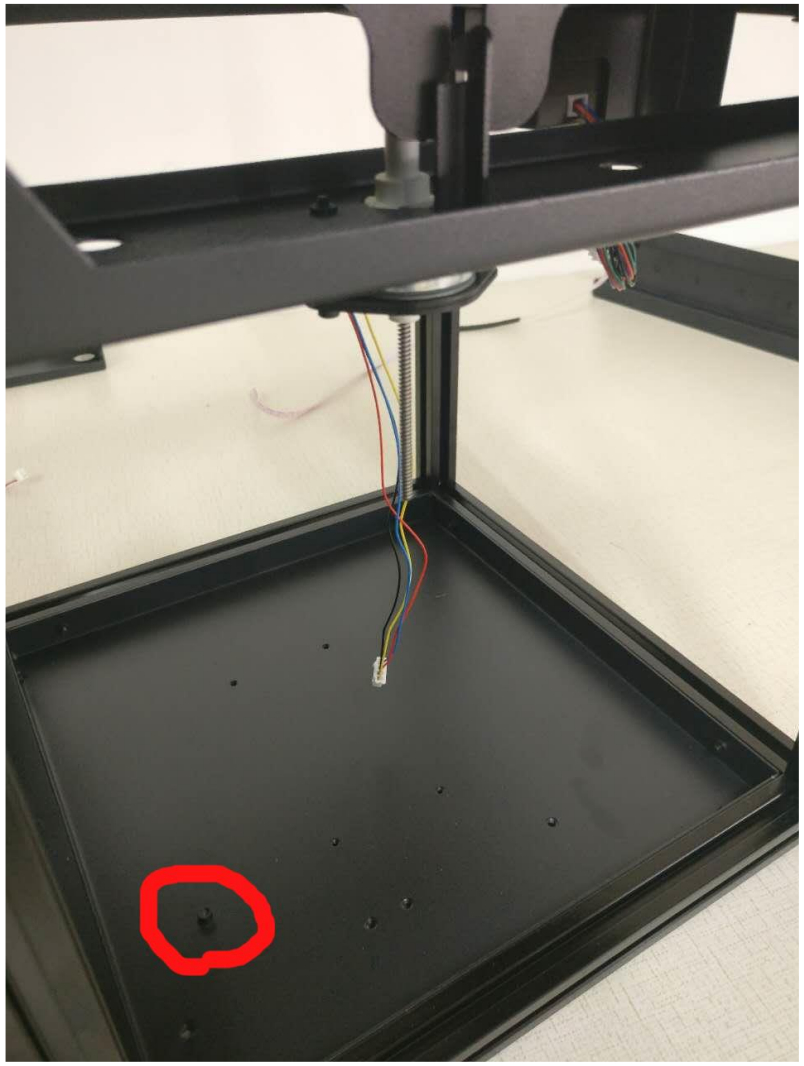


Secure Metal Piece with Hook. At the circle spot with CH M3-6 screws

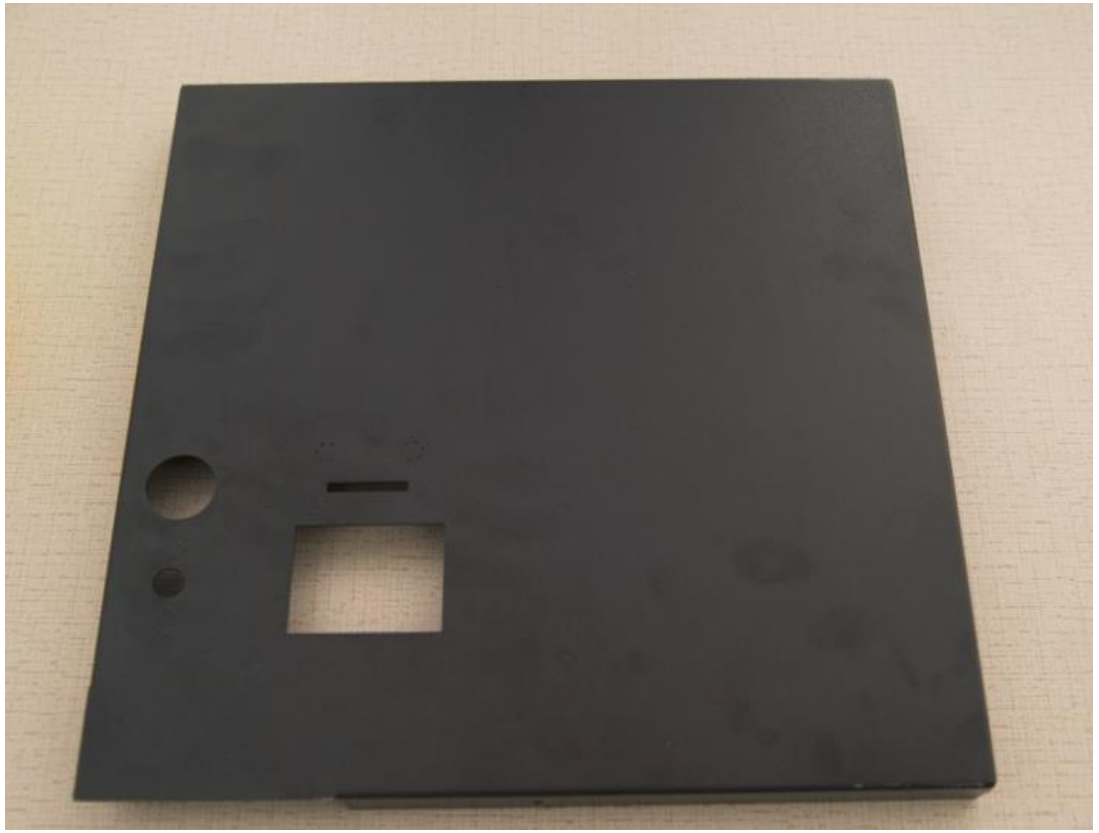


Find the Bottom piece, it has several screw holes on it and one very pronounced screw hole that rise up. The pronounced screw hole should be closest to the Front Frame.

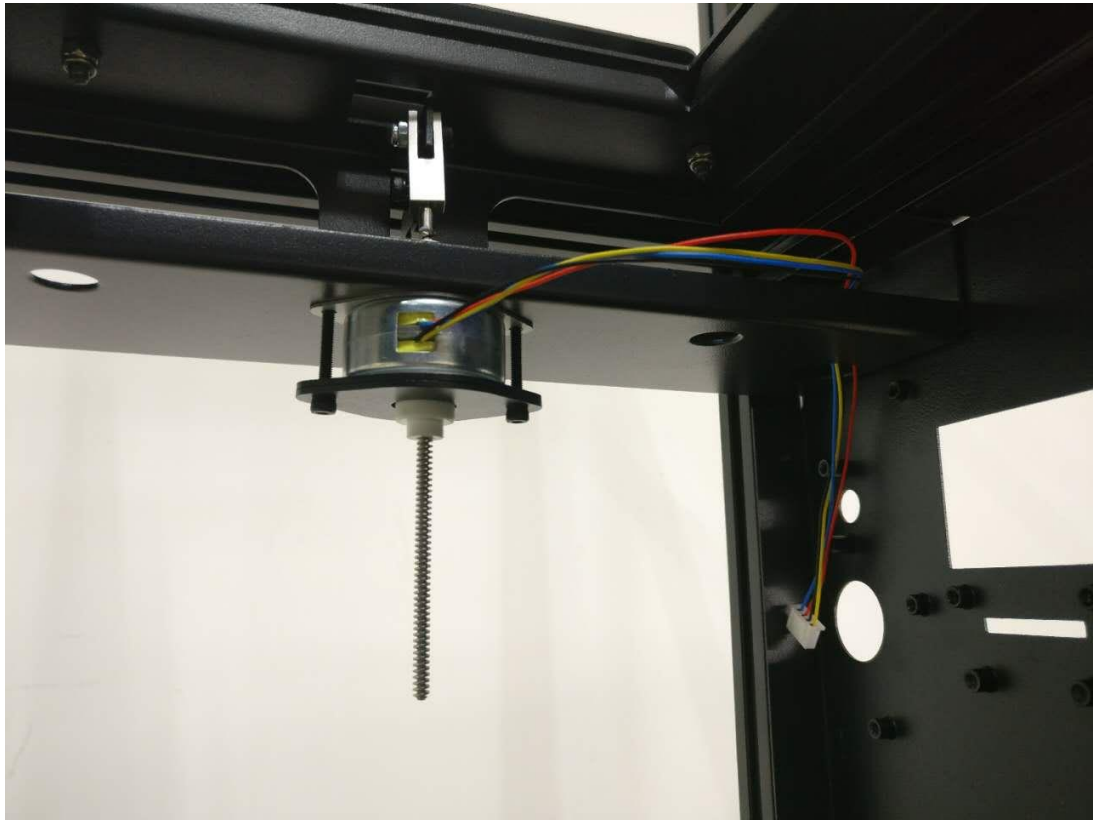
Ues 8 CH M3-20 screws 2 on each side to secure on 4 sides



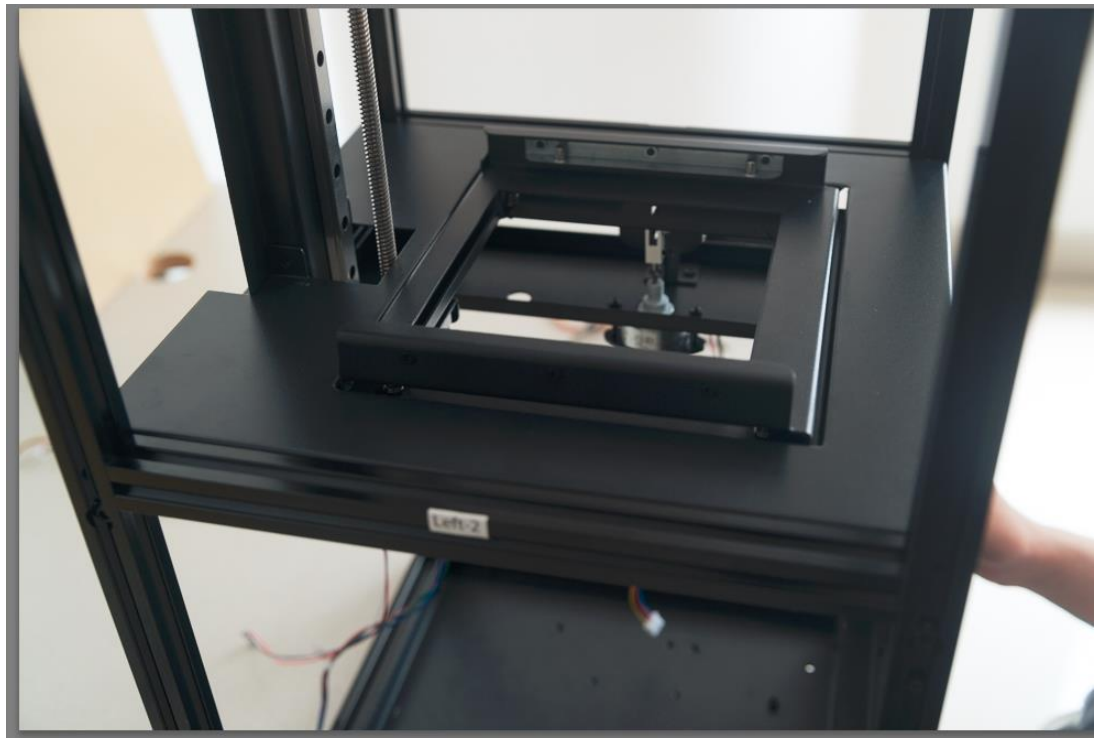
Find the Front Panel. Install it on the Front frame with 6 CH M3-20 screws. 2 each on Left/Right side. 1 each on Top/Bottom



Now let’s organize the PM Motor cables and Endstop Sensor Cables as below (RS)



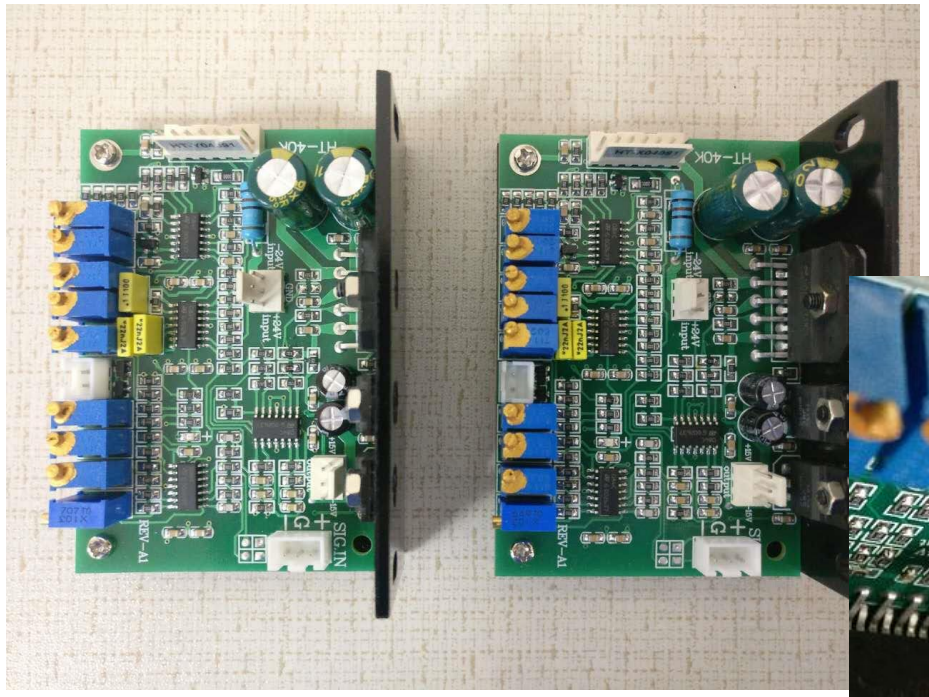
Find the Platform Cover, use 2 CH M3-6 to secure to Z-Axis
Use 4 CH M3-20 to secure to Left and Right frame, 2 on each side.

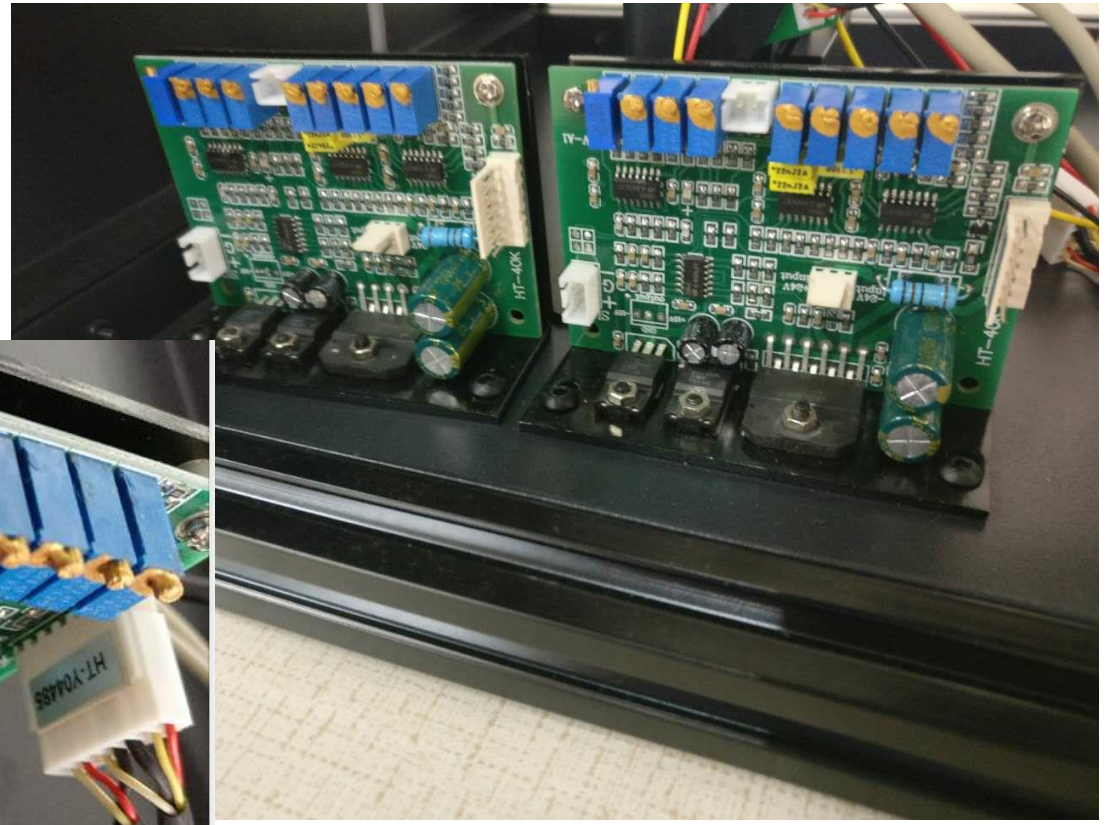


Now install Galvo Driver on the bottom panel. Secure with BH M4-6 Near the Right frame side

Each Galvo Driver is designed for a specific Galvo. Look for the lable on the Galvo Power port for indication. This is a common area where user make mistake

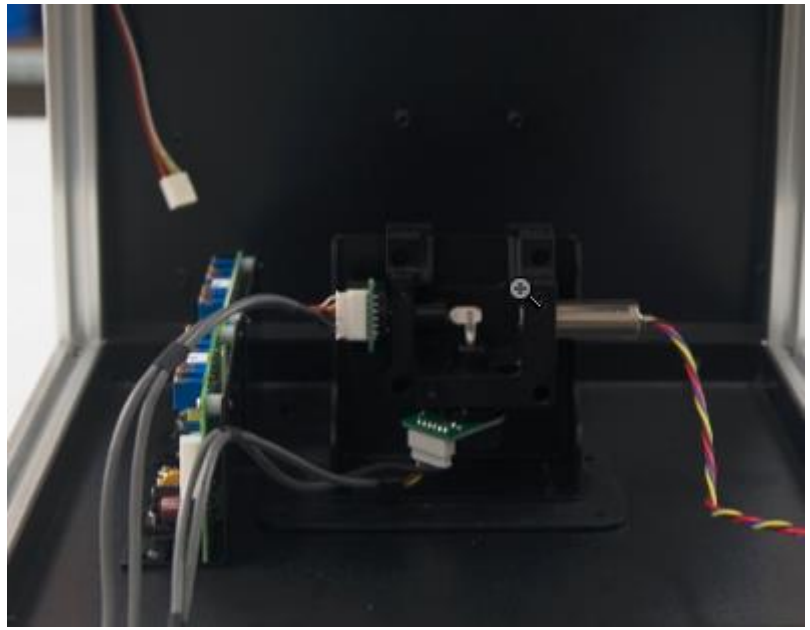
Example: HT-Yxxxx is for Y-Galvo and vice versa

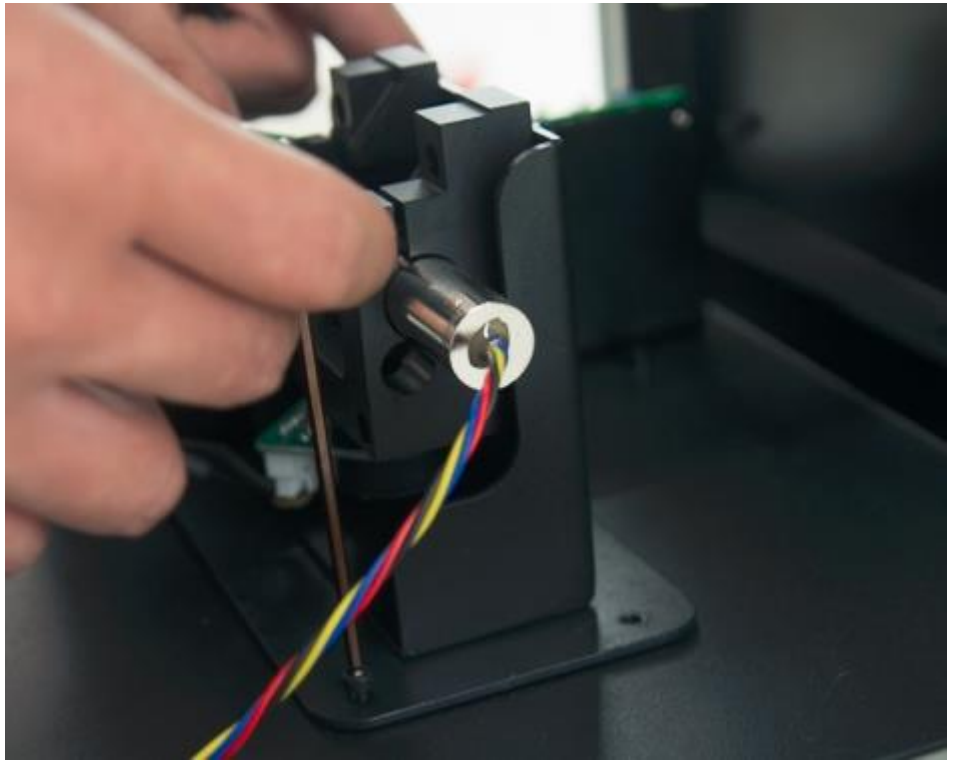




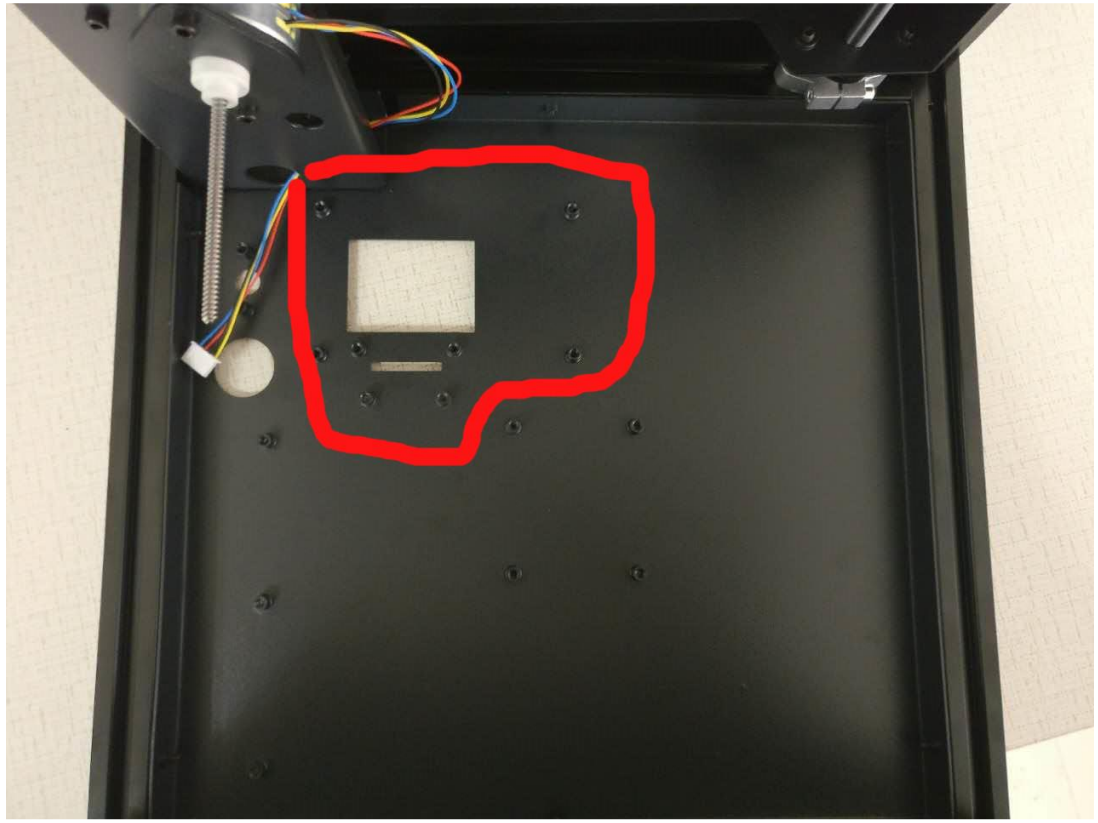
Now install Laser / Galvo set on the bottom panel. Use 4 CH M3-6 to Secure

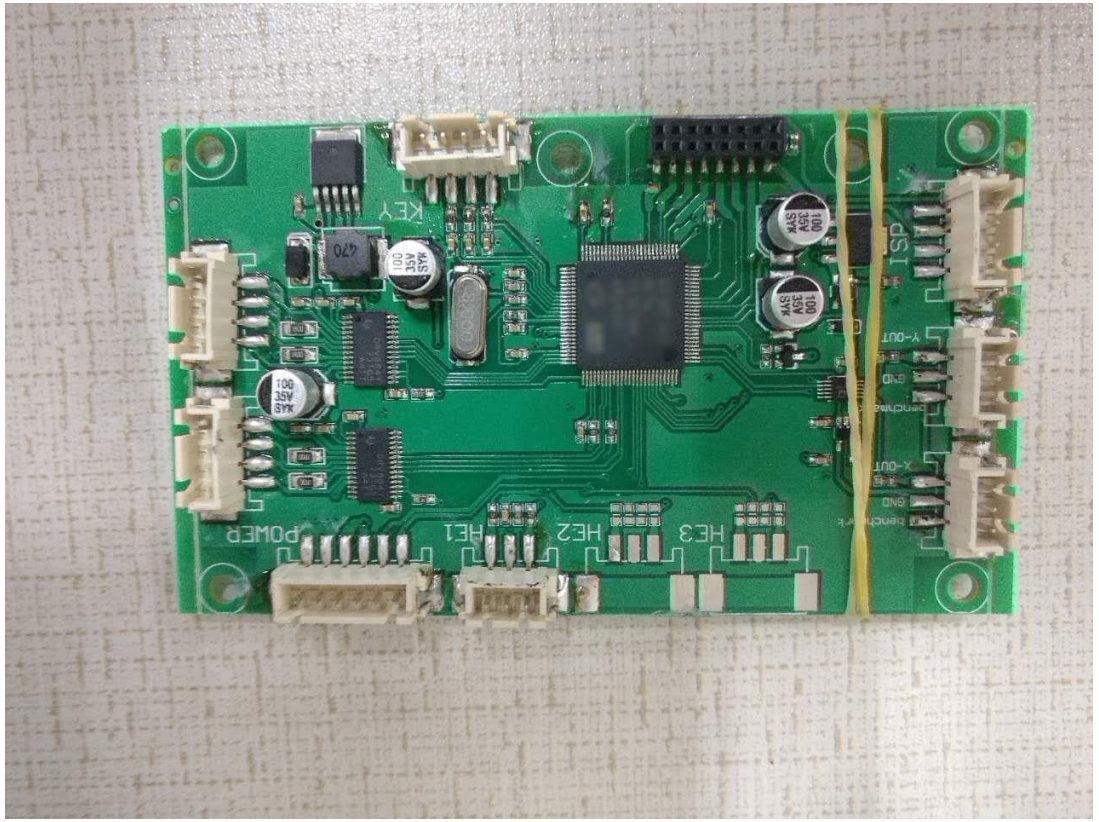
DO NOT TOUCH GALVO MIRROR or LASER FRONT ELEMENT



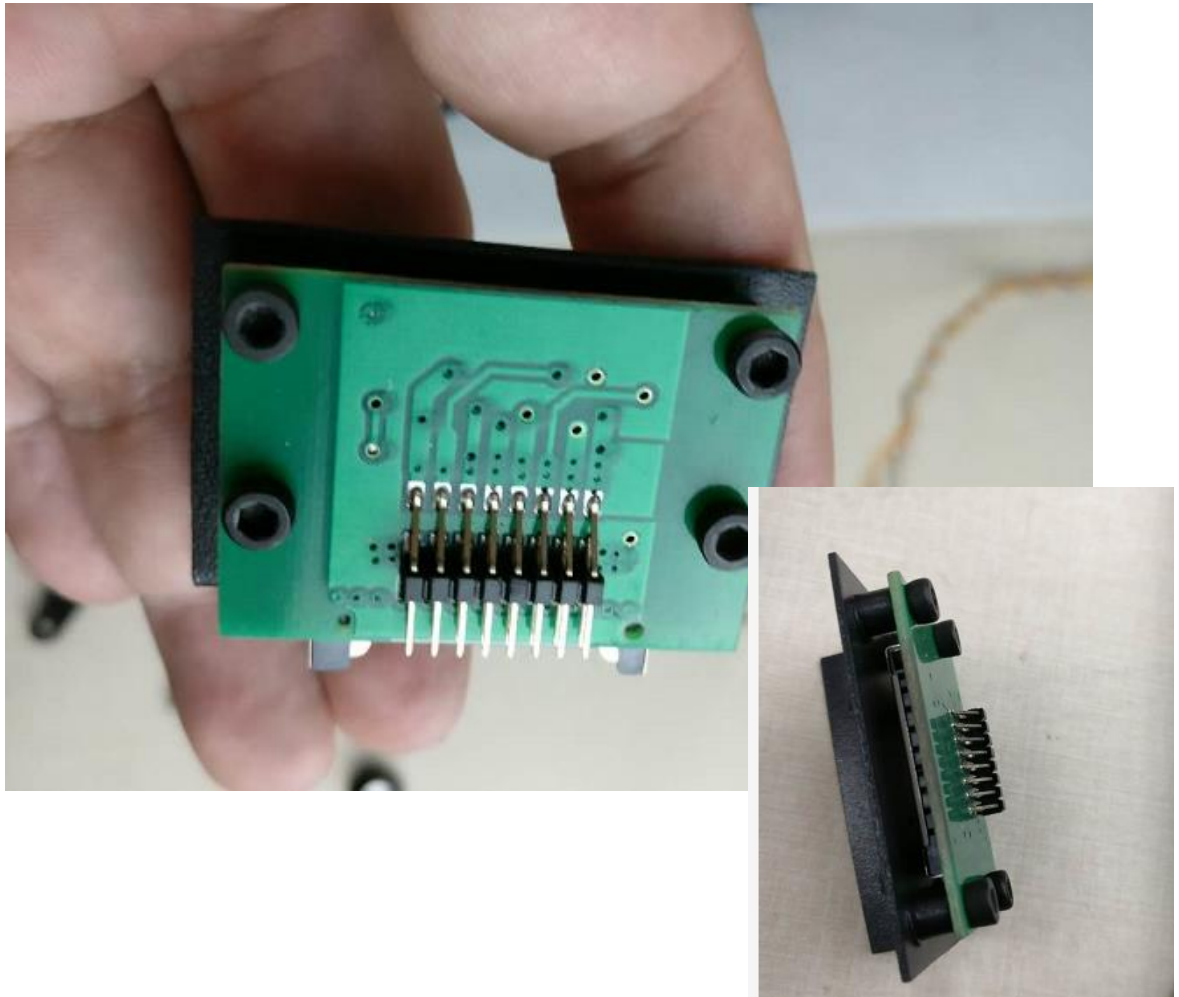


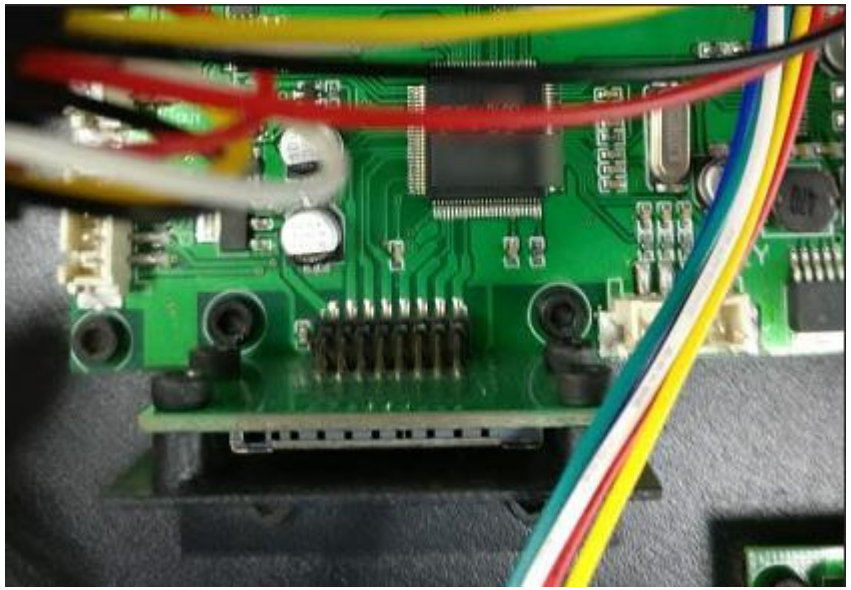
Lay the system down with Front Panel facing downward Install the processing board
use CH M3-5 screws to tighten them. Make sure you remove the protective screen film before installing the board.
here is a bigger picture of how all boards are next to each other. Top of picture is the riser and z-axis motor:
https://drive.google.com/open?id=0Bzke6lBHG_z5dm5RdDdJTHRRMDQ



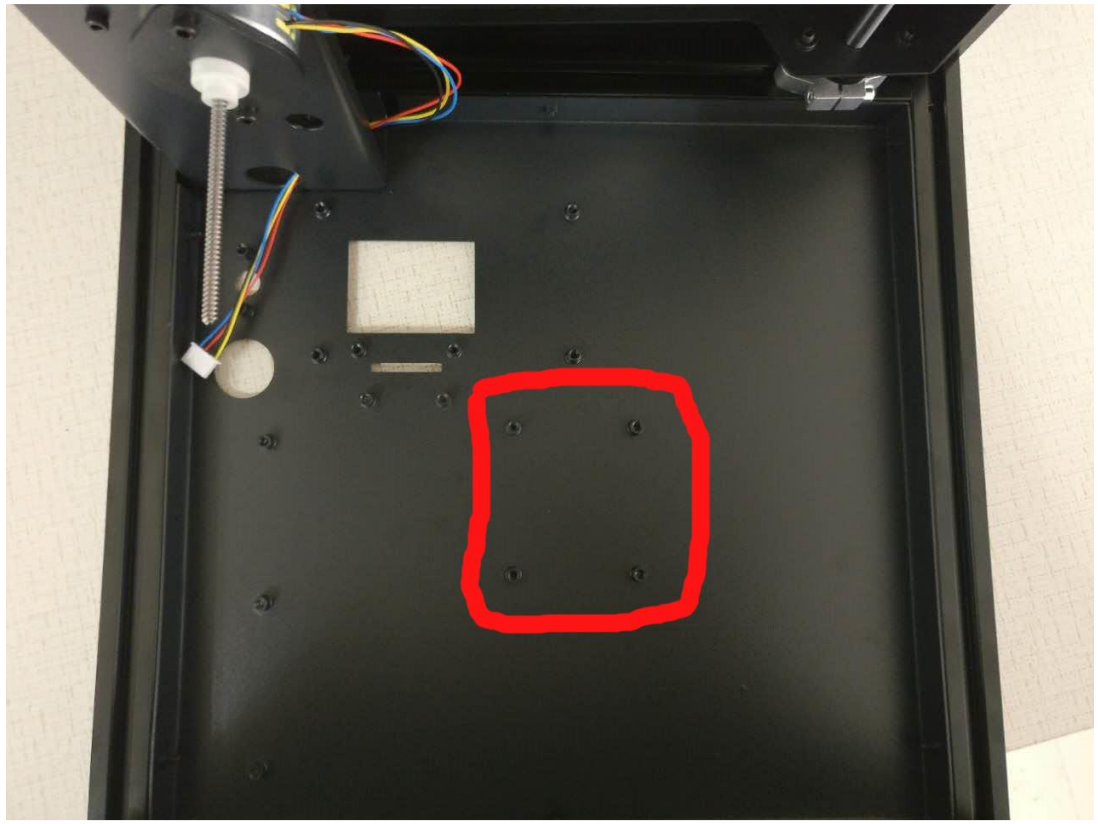


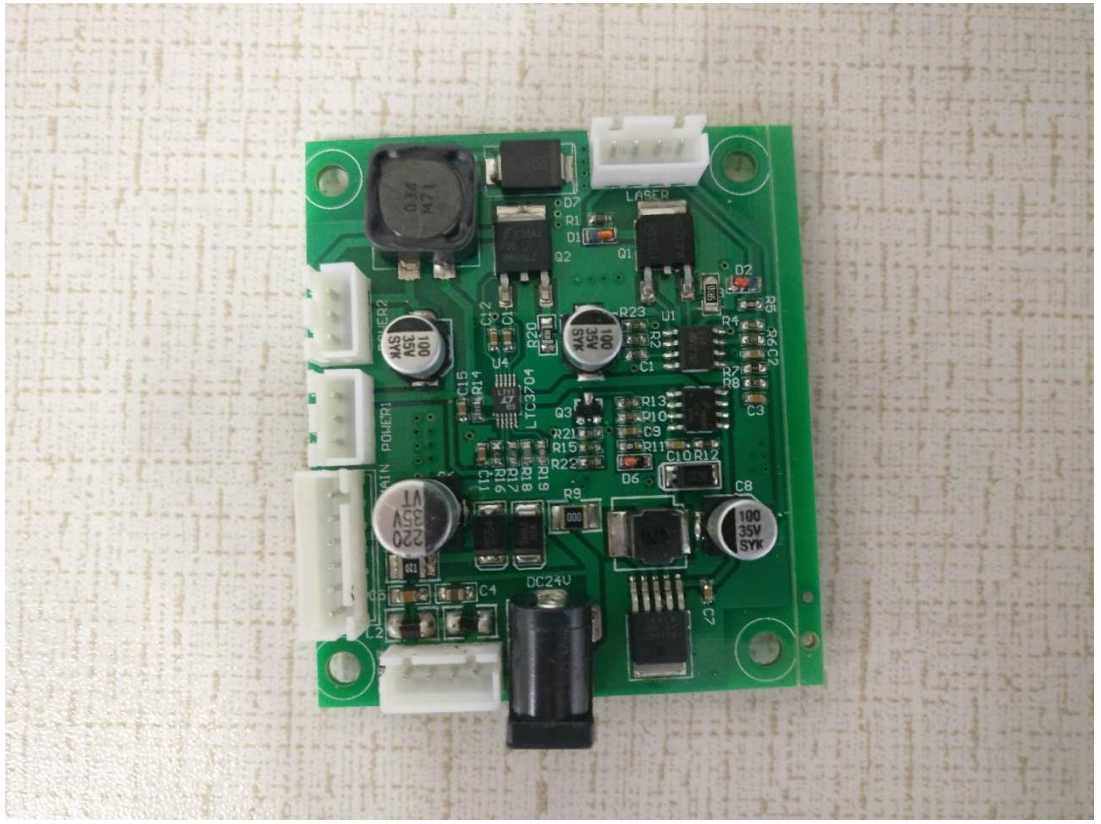
Install the SD card reader with an included metal plate. Secure with 4 CH M3-5 screws. The plug the SD reader with the plat on the main board and secure the plate with 2 CH M3-5 screws



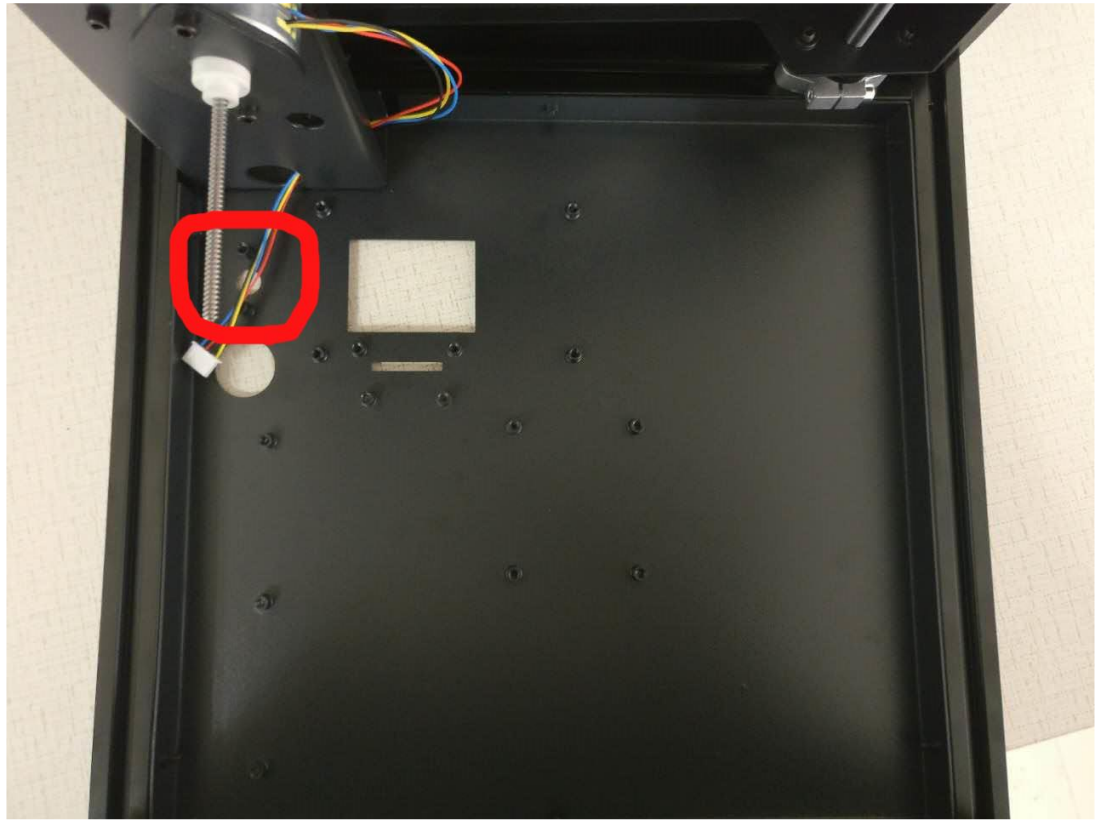


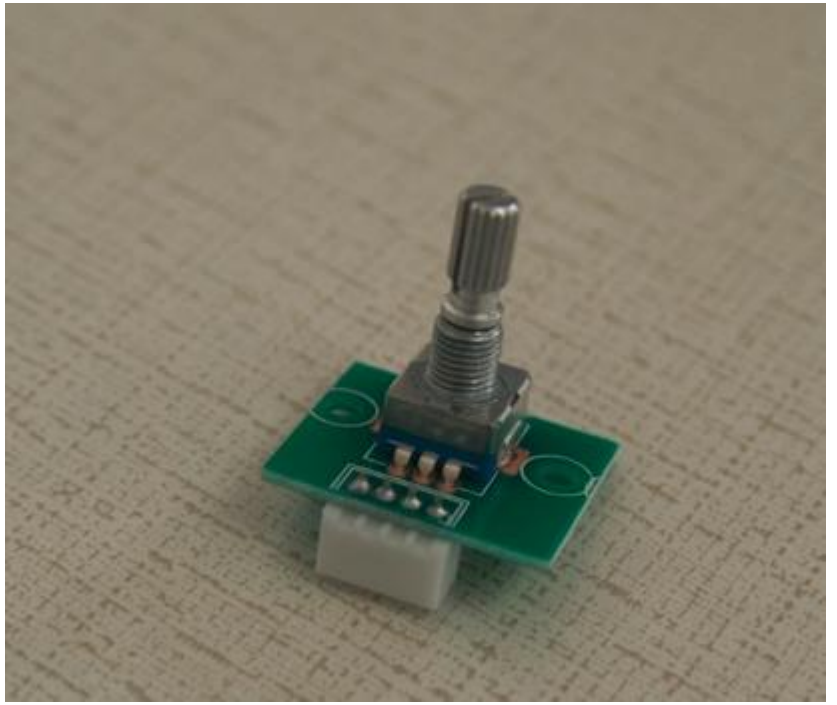
Secure the Power Board (lower right picture). Both using CH M3-5 screws
here is a bigger picture of how all boards are next to each other. Top of picture is the Riser and Z-Axis motor:
https://drive.google.com/open?id=0Bzke6lBHG_z5dm5RdDdJTHRRMDQ (Reshoot)





Secure the Power Board (lower left picture) and knob control (lower right). Both using CH M3-5 screws
here is a bigger picture of how all boards are next to each other. Top of picture is the riser and z-axis motor:
https://drive.google.com/open?id=0Bzke6lBHG_z5dm5RdDdJTHRRMDQ (Reshoot)





Cabling:

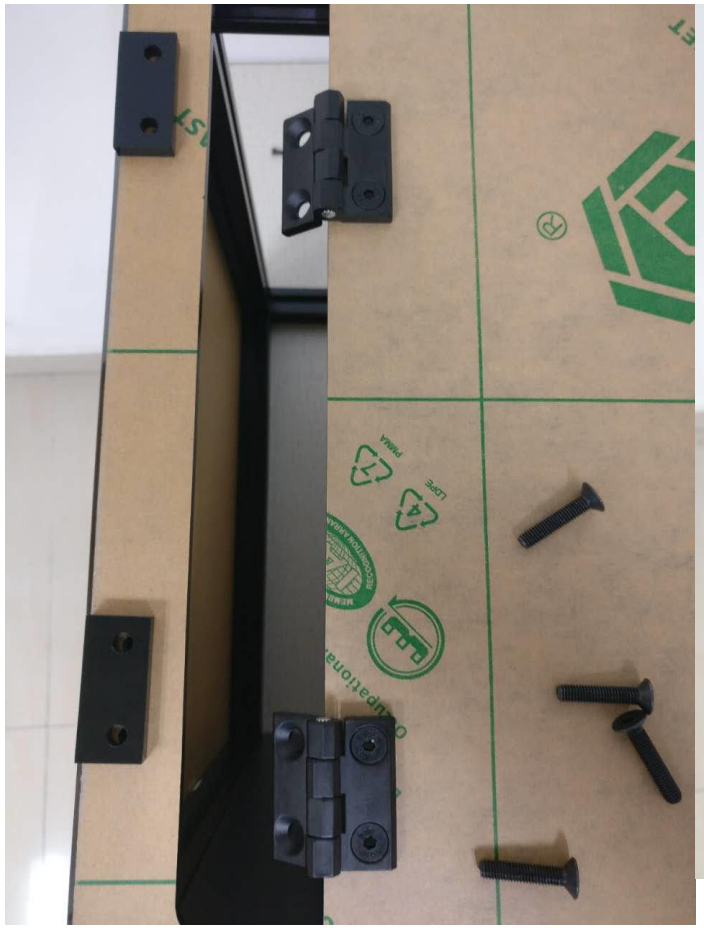
All cables have labels on them

The connection can be made by looking at below pics and match the port name to the cable label

Diagram: needs update
board picture reference: https://drive.google.com/open?id=0Bzke6lBHG_z5VWd2ZG1yQ182WE0
Driver picture reference: https://drive.google.com/open?id=0Bzke6lBHG_z5a1Ntek5tMUozNmM
Laser/Galvo picture reference: https://drive.google.com/open?id=0Bzke6lBHG_z5V1RuM2dsNDFUYmM

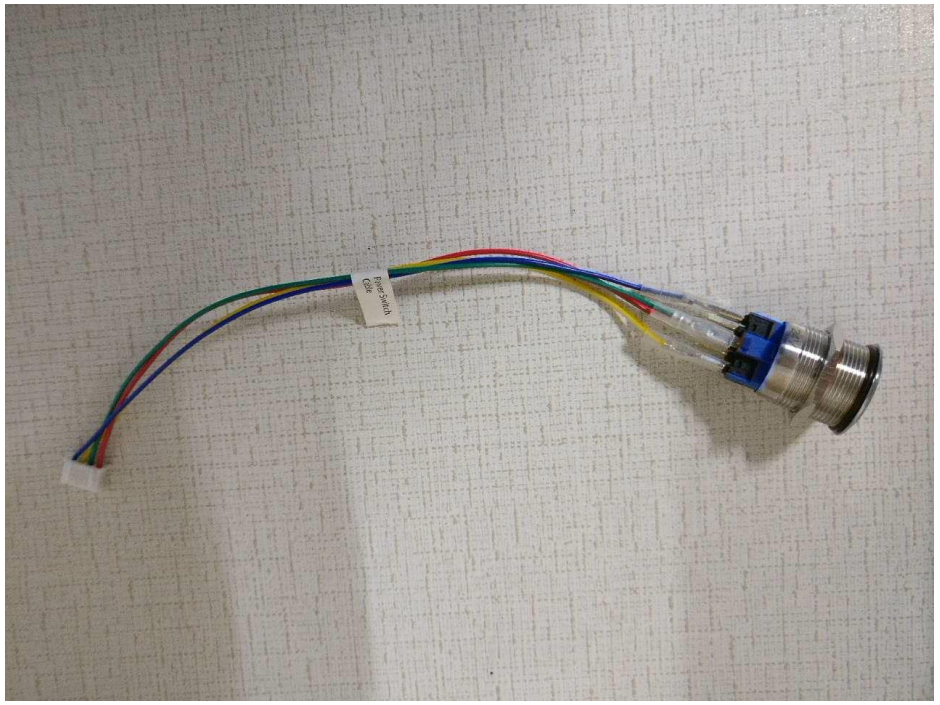
Find and install Front Panel, Use 6 BH M3-16 screws to secure

Install Front Door to Front Panel, Find these pieces
Use 4 FH M5x12 on the Door, Use 4 FH M5x20 (?25)to secure Door on the Panel

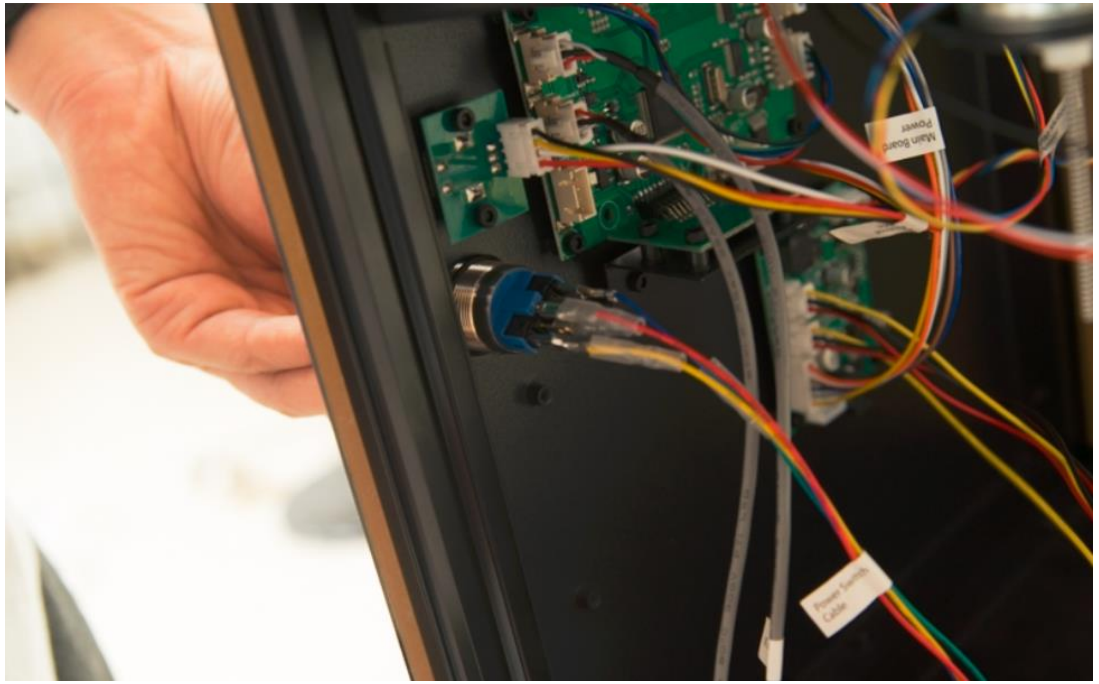


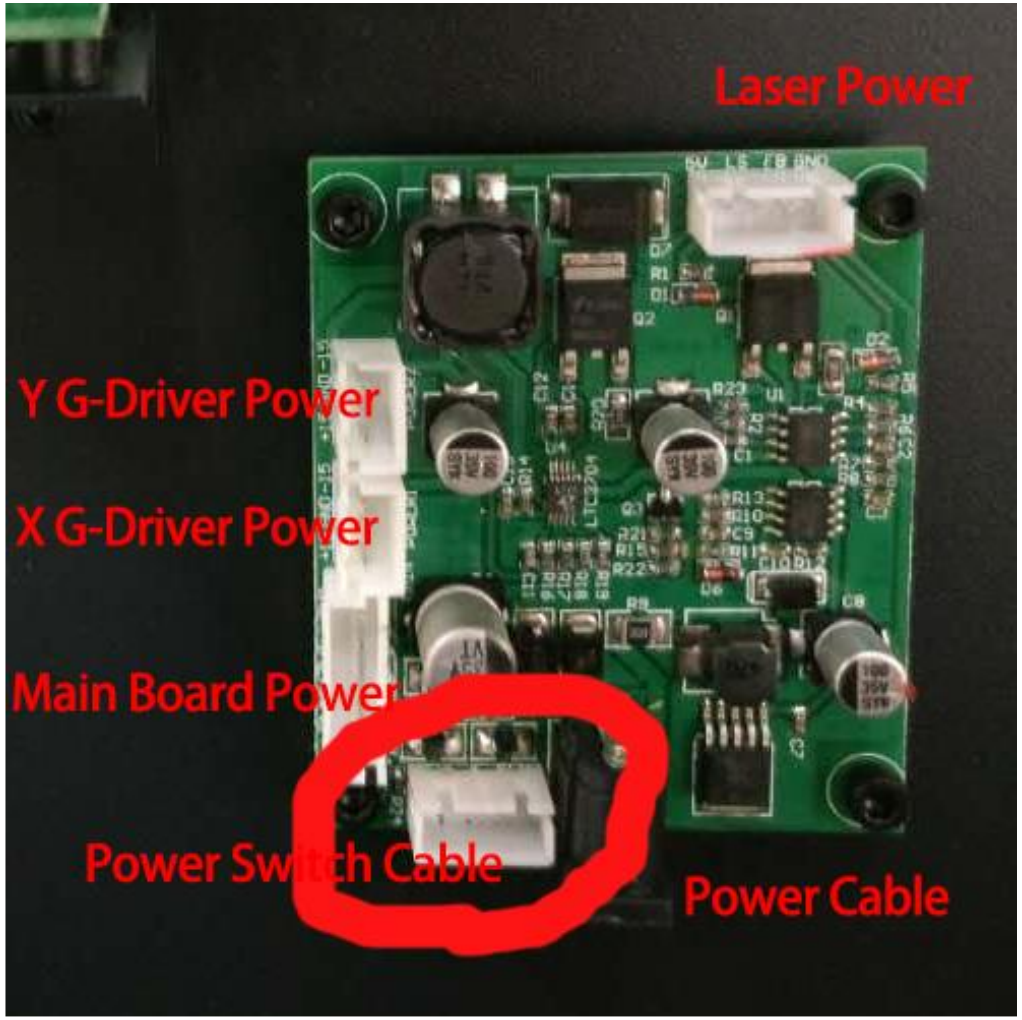
Find Knob Cover
Install Knob Cover to Front Panel, there should be a metal beam sticking out from the Control Unit

Find Power Switch (See left picture)
There is rubber ring and a metal ring. Remove both before installing

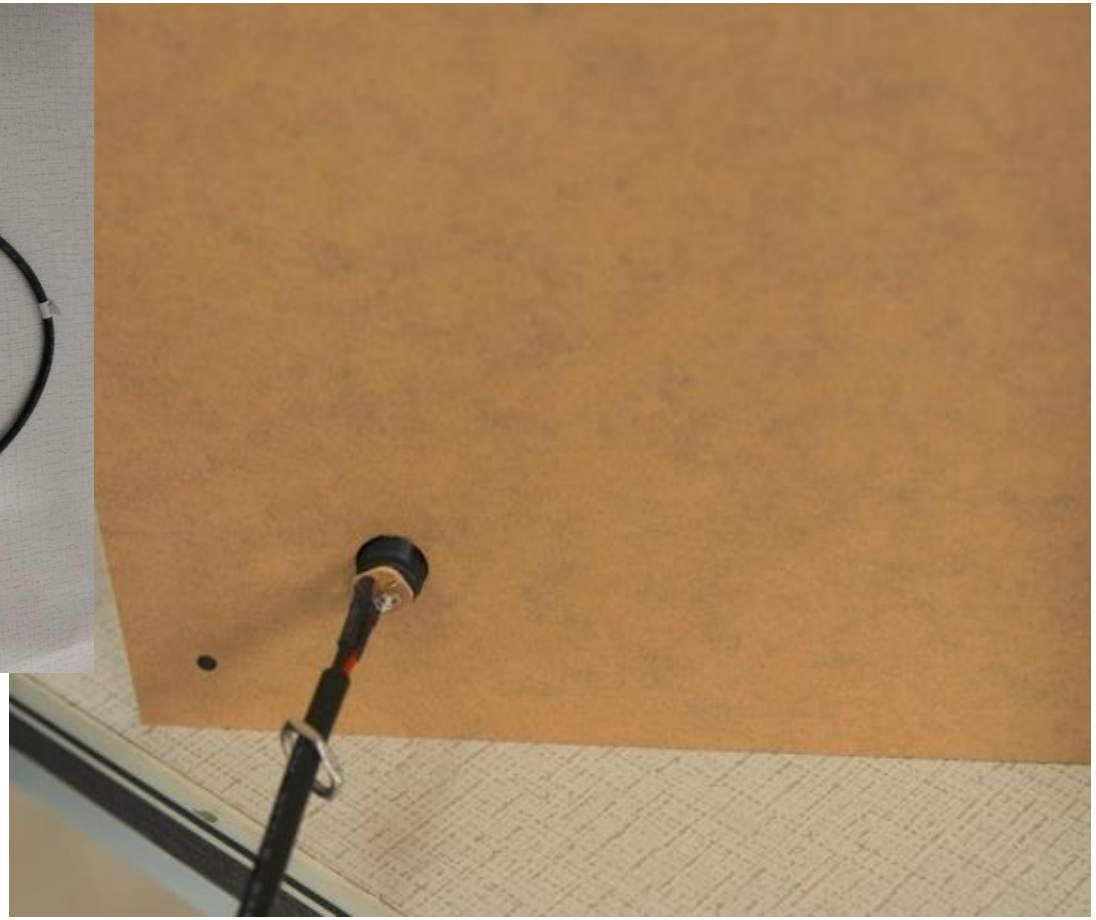


Make sure insert Power Switch with cable through the Front panel holes
Put on rubber ring and then a metal ring. Secure the Power Switch from the back buy put rubber ring all the way in first and tighen the metal ring. Contact the Power Switch Cable to the highlighted port

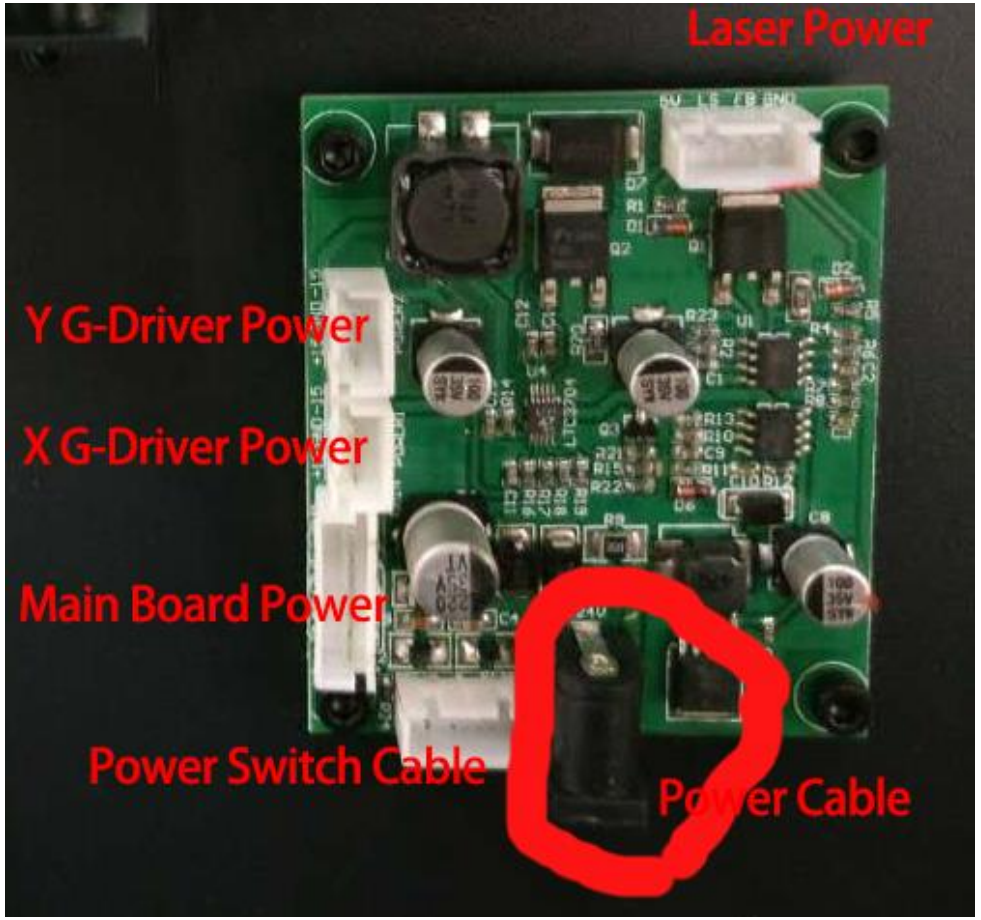


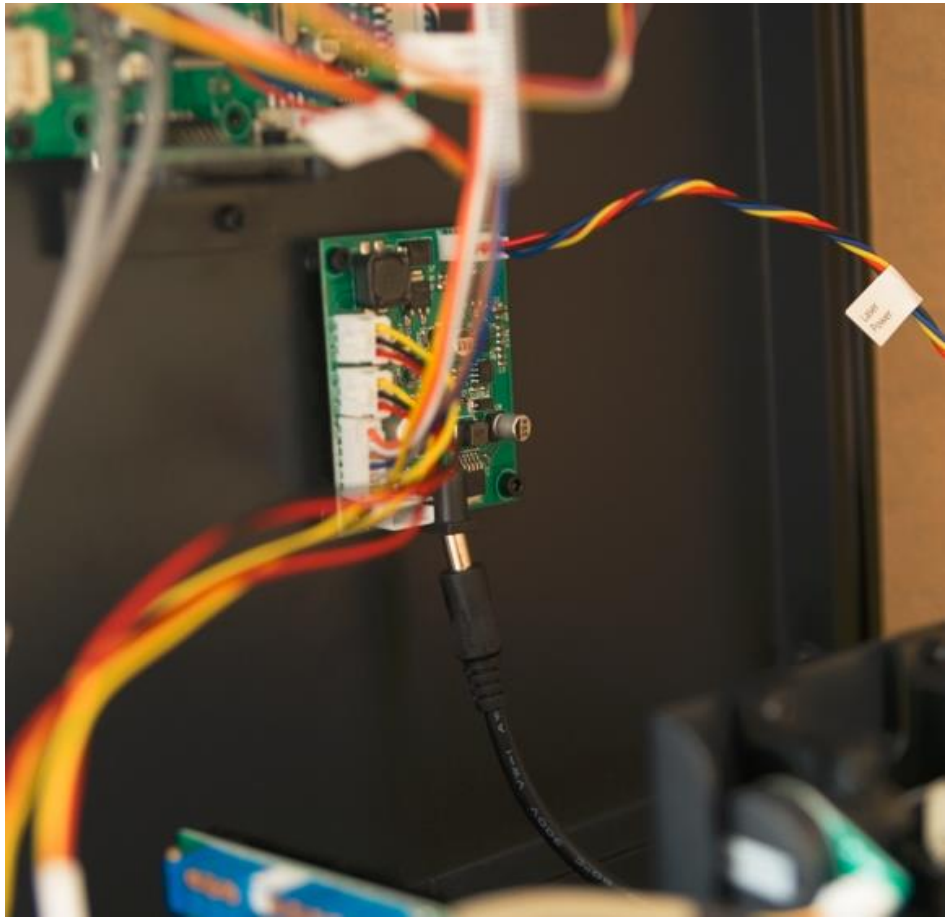


Install Back panel for Back frame, you can Identify it by the hole
Install Power Cable by pull a part of cable thru Back Panel's hole.
Use 6 BH M3-16 screws to secure

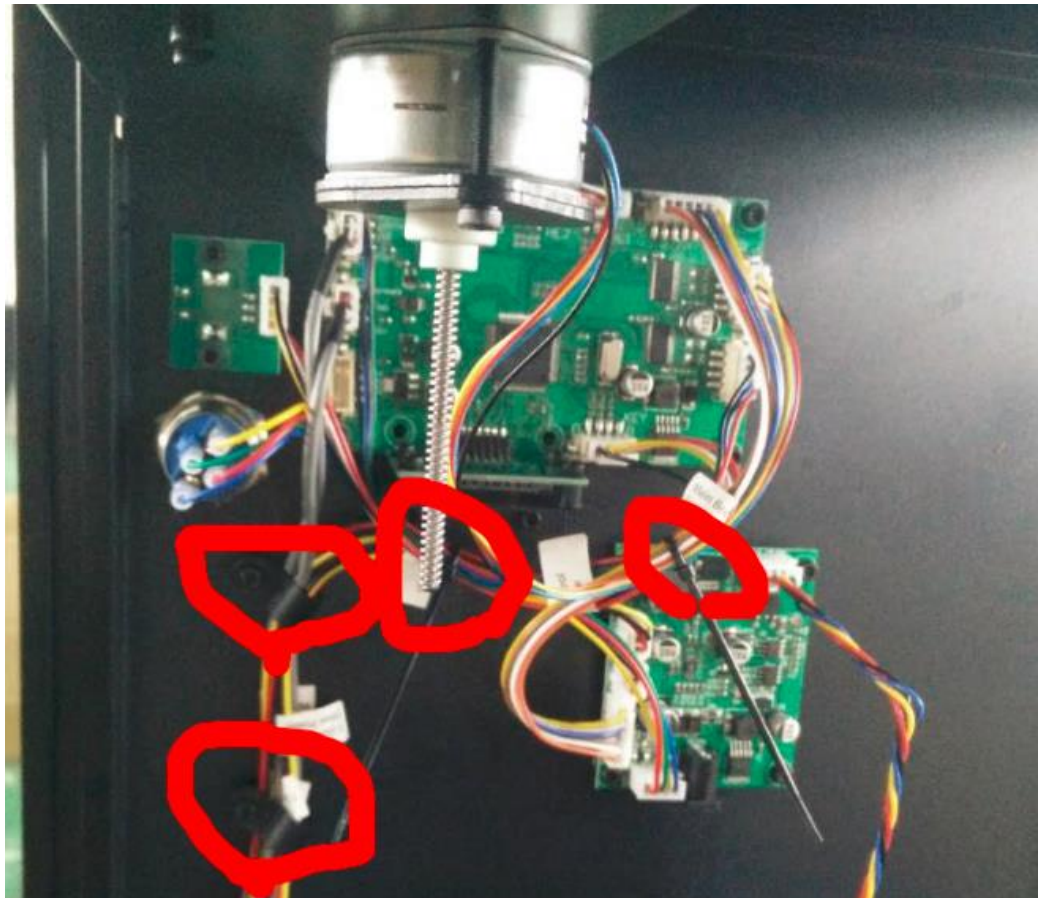


Install Back panel for Back frame, you can Identify it by the whole
Install Power Cable by
Use 6 BH M3-16 screws to secure

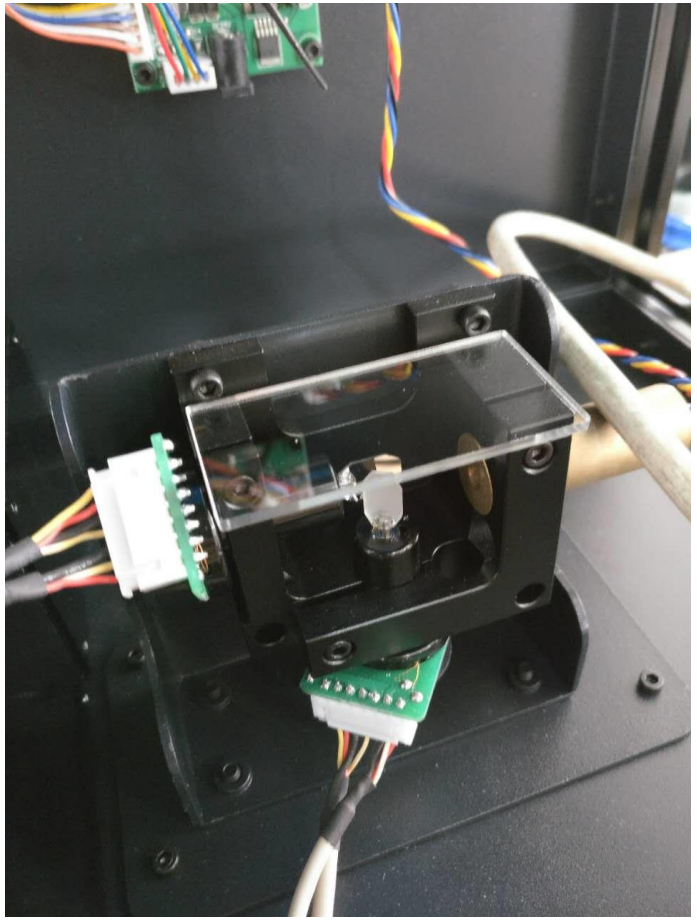




Before you close it up, please check out how to manage all the cables so it doesn't block off laser or caught by motor:
here is the document: https://drive.google.com/open?id=10Hs4L5ChrQcMRv-hTj1OjxoXU1Nje65PGSYR9zzE0nU



Find Protection Aryclic seen here. Install it to the galvo using silicone gel or any glue you may have, just small amount and it will secure it. Tape would work too.



We recommend you do this last step ONLY AFTER YOU PRINTER PASS ALL the CALIBRATION and TEST PRINT

USE Protection Glass when running test with panels off!

Install Left, Right and the Top. Use 6 BH M3-16 screws to secure each panel on the Right and Left. 4 for the Top Panel. Make sure the slant on the panel is facing outward.