

snapmaker

# QUICK START GUIDE

Make Something Wonderful





# CONTENT



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Machine Assembly

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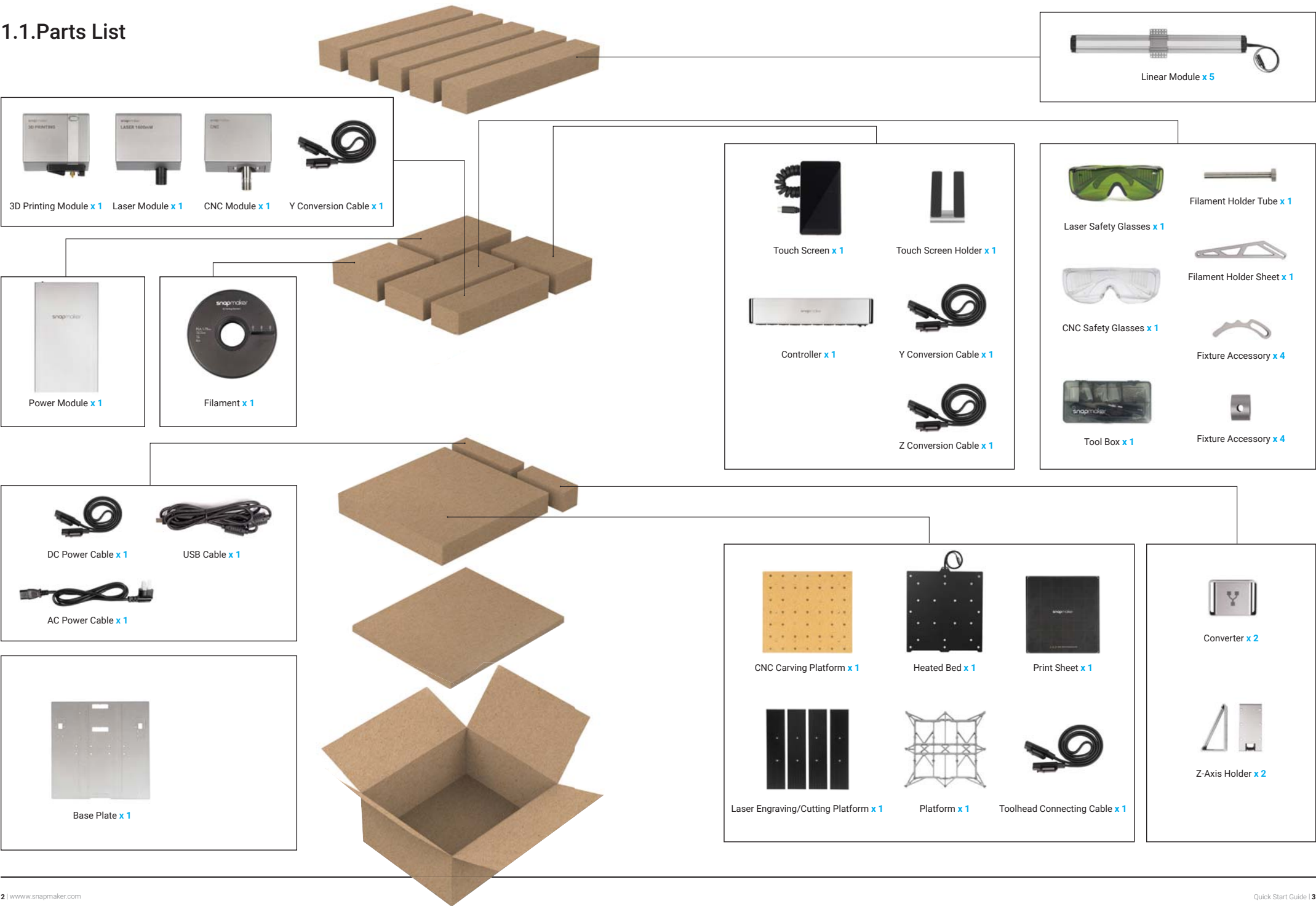
Laser Engraving and Cutting

72

CNC Carving

Chapter 01  
Before You Start

1.1.Parts List





Tool Box



M4 x 30 Screw x 12



M4 x 10 Cylindrical Head Screw x 21



M4 x 8 Screw x 66



M4 x 10 Countersunk Head Screw x 22



M4 x 70 Screw x 4



Butterfly Nut x 4



Foot x 4



ER11 Collet (Only for 3.175 mm CNC Bits) x 1 + ER11 Nut x 1



Tweezer x 1



Power Adapter x 1



Power Adapter x 1



Silicone Stopper x 10



Power Adapter x 1



17mm Open-End Wrench x 1



Diagonal Pliers x 1



Palette Knife x 1



14mm Open-End Wrench x 1



Screwdriver x 1



Tool Box



Test Material for CNC x 1



Test Material for Laser x 1



Wiping Cloth x 1



Calibration Card x 1

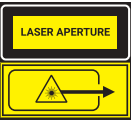
## 1.2.Labels on Your Snapmaker



The temperature of the heated bed can reach up to 80°C (176°F), and the temperature of the nozzle can reach up to 275°C (527°F). Do not touch the heated bed, nozzle or print sheet when the printer is preheating, printing or cooling down. Always wait for the temperatures of the nozzle and the heated bed to drop to room temperature before touching them.



The spindle speed of the CNC module can reach 6000-12,000 RPM and the CNC bits are sharp. Keep a safe distance from the machine when it is carving. Handle the CNC bits carefully and keep them out of reach of children.



Europe



USA

Laser radiation is emitted from the aperture.



Europe



USA

The laser module is a Class 4 laser product, which wavelength is 450nm and the maximum output is 1600mW. Avoid eyes or skin exposure to direct or scattered radiation.

## 1.3.Disclaimer

Please read and understand the contents of the Safety and Compliance Information. Failure to read this Safety and Compliance Information may lead to personal injury, inferior results or damage to the Snapmaker Original. Always make sure that anyone who uses the machine knows and understands the contents of this Safety and Compliance Information to make the most out of Snapmaker Original.

The conditions or methods used for assembling, using or disposal of the device are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, injuries, damage, or expense arising out of or in any way connected with the assembly, handling, use or disposal of the product. The information in this document was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

## 1.4.General Safety Information

The Snapmaker Original is not intended for use for persons (including children) with reduced physical and/or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

Improperly operating the Snapmaker can get burned from the heated nozzle and heated bed. Please assemble the machine strictly according to the Quick Start Guide and follow the online manual book (<https://manual.snapmaker.com/>) to operate.

Children should be under constant supervision and assistance of an adult when using the Snapmaker Original.

Do not change or adjust anything on the Snapmaker Original unless the change is authorized by the manufacturer.

Stop using your Snapmaker Original if any of the following occurs. Turn off the machine immediately and unplug the power adapter, and contact [support@snapmaker.com](mailto:support@snapmaker.com). Do not use your Snapmaker Original again until the issue has been addressed by support.

- ⚠ There is a fire in the Snapmaker Original which persists after the machine turns off.
- ⚠ The Snapmaker Original stops unexpectedly.
- ⚠ You see any damage to the interior components of the Snapmaker Original.
- ⚠ You notice unusual light coming from the Snapmaker Original that was not occurring previously.
- ⚠ You notice an unusual sound coming from the Snapmaker Original that was not occurring previously.

## 1.5.Safety Information for 3D Printing

- ⚠ Make sure all cables are connected properly, and modules are fixed tightly.
- ⚠ Do not operate near the print head or nozzle while it is heating, printing or cooling down. Temperatures can reach up to 250℉.

To reduce the risk of electric shock or fire:

- ⚠ Do not try to service, repair, or modify the Snapmaker.
- ⚠ Never try to access the wiring of the Snapmaker.

## 1.6.Safety Information for Laser Engraving

- ⚠ Wear the Laser Safety Glasses and put the 3D printer into the Enclosure before you set up the laser engraver and throughout the laser engraving process.
- ⚠ Children require the supervision and assistance of an adult at all times.
- ⚠ Do not use your Snapmaker while under the influence of alcohol or drugs.

To reduce the risk of electric shock or fire:

- ⚠ Do not try to service, repair, or modify the Snapmaker.
- ⚠ Never try to access the wiring of the Snapmaker.
- ⚠ Do not open the power supply or any other sealed portion of the Snapmaker.

## 1.7.Safety Information for CNC Carving

- ⚠ It is recommended that experienced users and users over 18 years old perform the setup and use the CNC carver.
- ⚠ Wear the CNC Safety Glasses before you set up the CNC carver and throughout the CNC carving process.
- ⚠ The CNC bits are sharp. Please handle them carefully and keep them out of reach of children. To reduce the risk of electric shock or fire:
- ⚠ Do not try to service, repair, or modify the Snapmaker.
- ⚠ Never try to access the wiring of the Snapmaker.
- ⚠ Do not open the power supply or any other sealed portion of the Snapmaker.

## 1.8.Video Tutorials

We provide both the video tutorials and Quick Start Guide which help you get started. You can either read this Quick Start Guide to finish assembly and begin your maker journey, or watch the video tutorials at <https://www.snapmaker.com/document>



## 1.9.Used Symbols

- ⚠ Caution : Ignoring this type of message might result in malfunction or damage of the machine and injuries to users.
- ⚠ Notice: Details you should be aware of throughout the process.
- 💡 Tips: Tips offer you convenient operations and additional options.
- ➡ Make sure that the highlighted part is facing the right way.
- 🔧 Tighten the screws when this symbol is absent.

## 1.10.Get the Screwdriver Ready

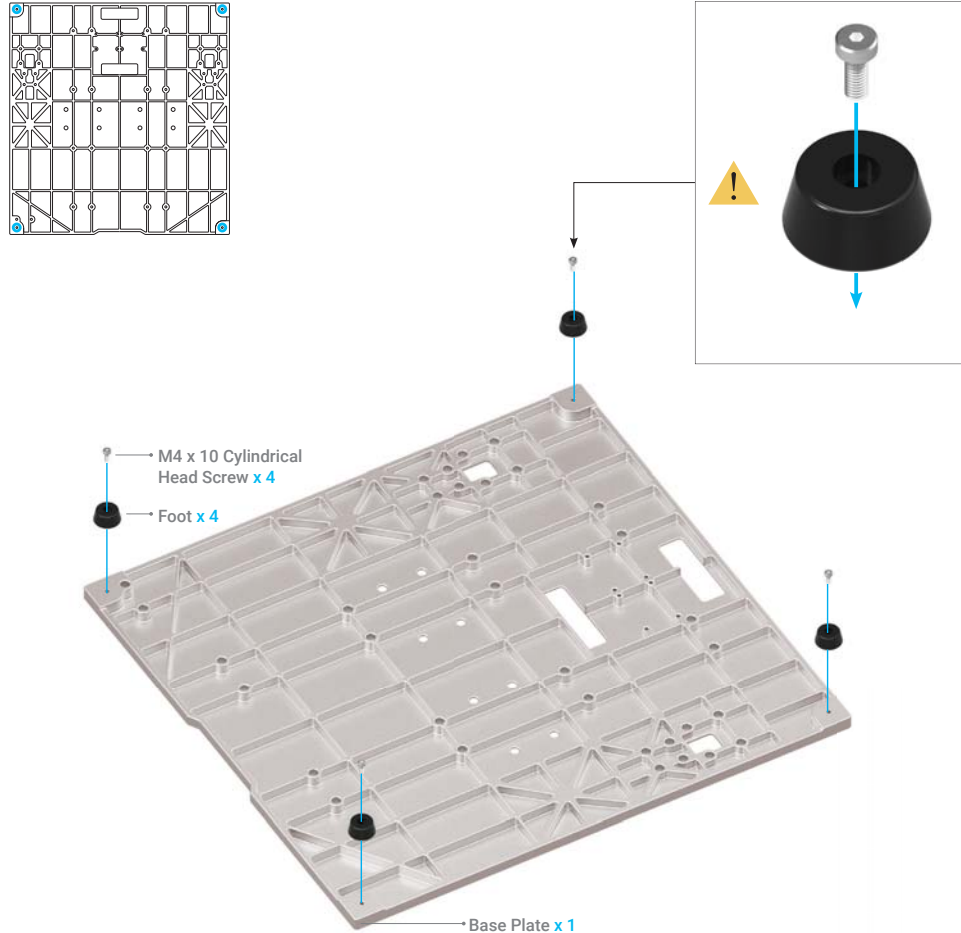




Chapter 01  
Before You Start

## 🔧 01/22

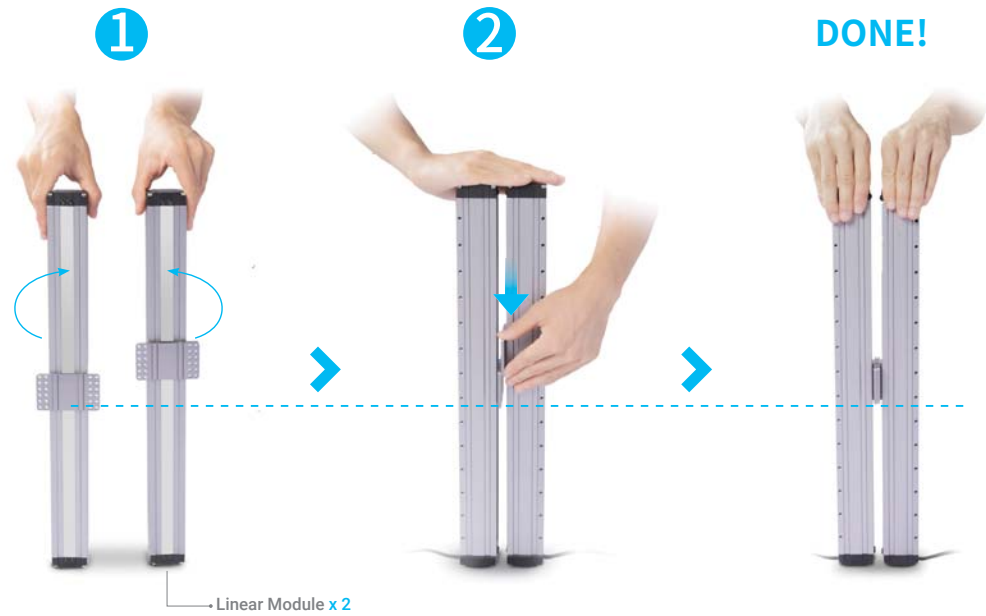
Attach the feet to the Base Plate.



## 🔧 02/22

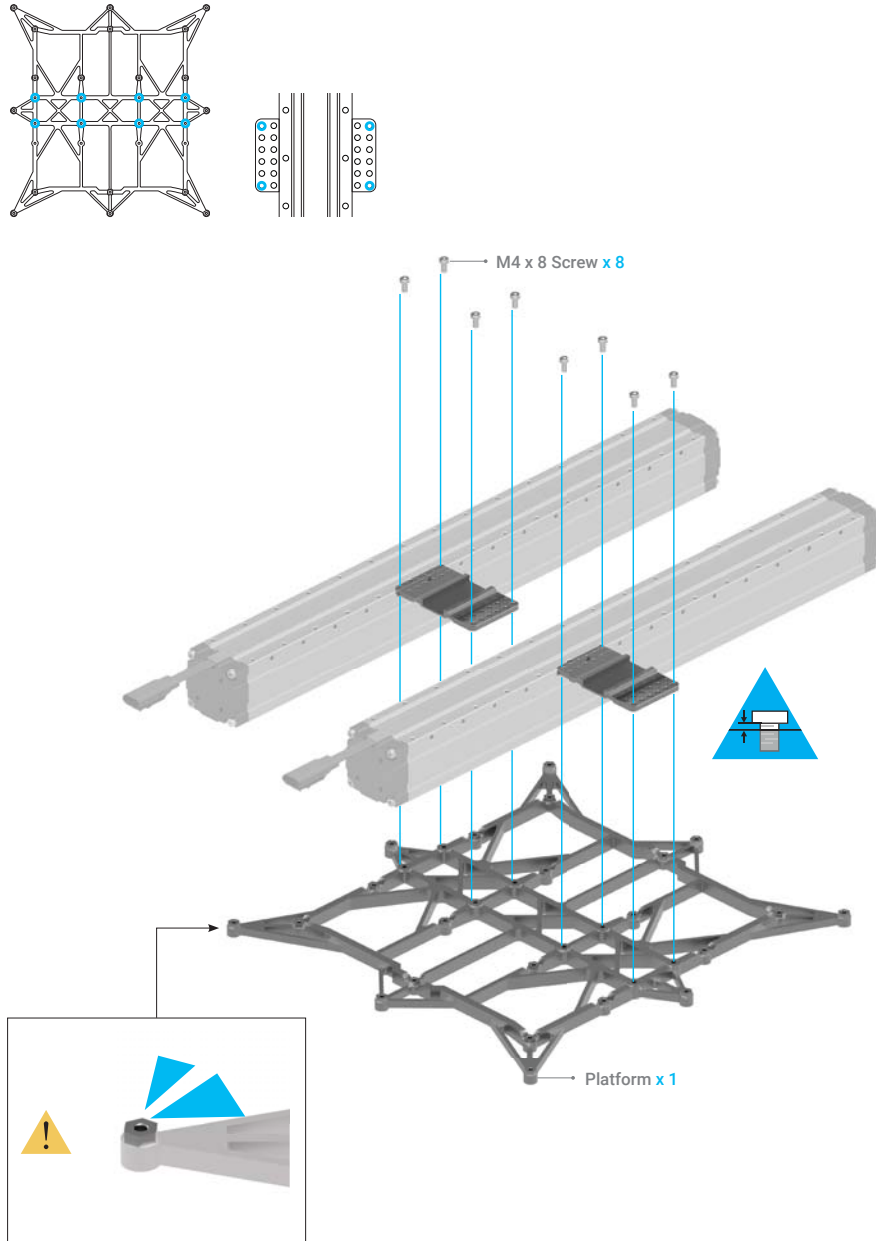
Make sure the sliders are aligning with each other. If not, you can move them to the same position as illustrated.

⚠ Please hold the linear modules carefully to prevent them from falling.



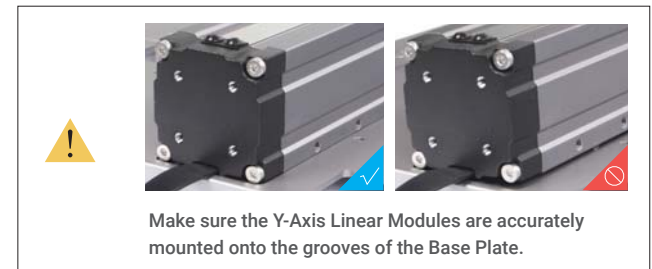
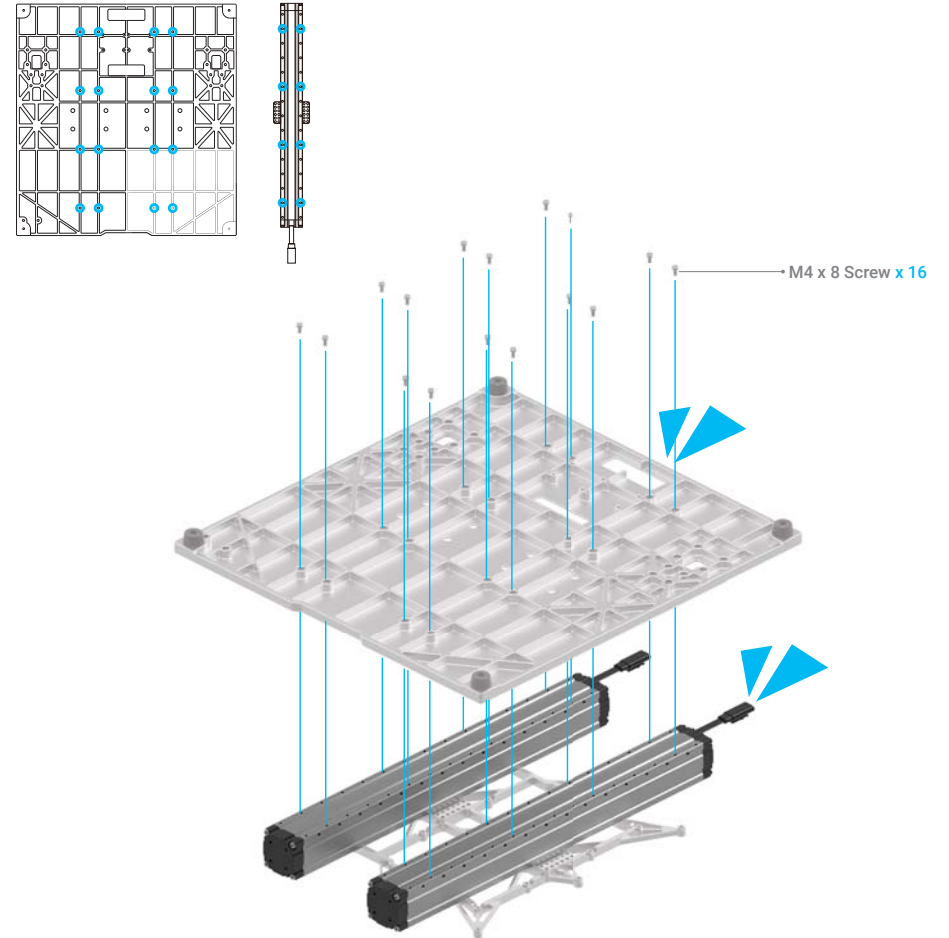
## 03/22

Attach the Platform to the Y axes. Do not tighten the screws until Step 5.



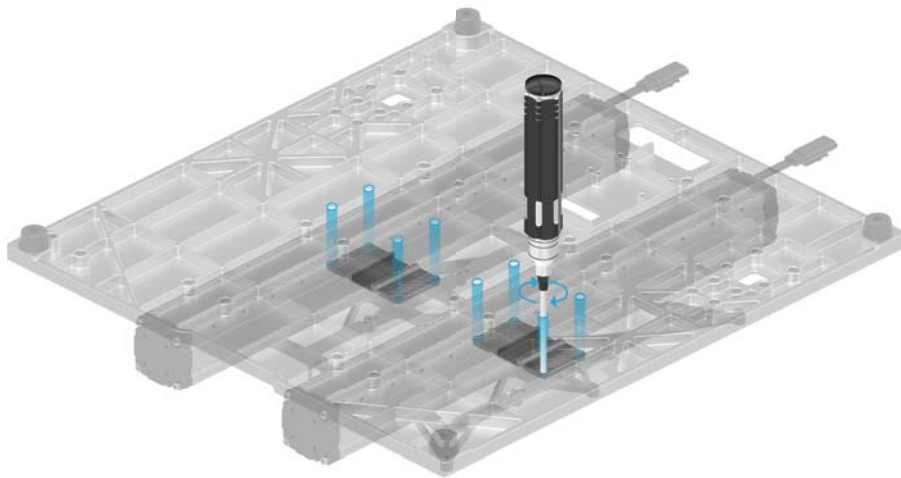
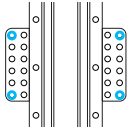
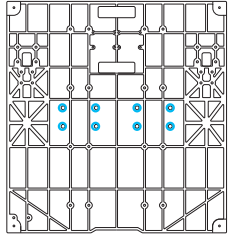
## 04/22

Attach the Y axes to the Base Plate.



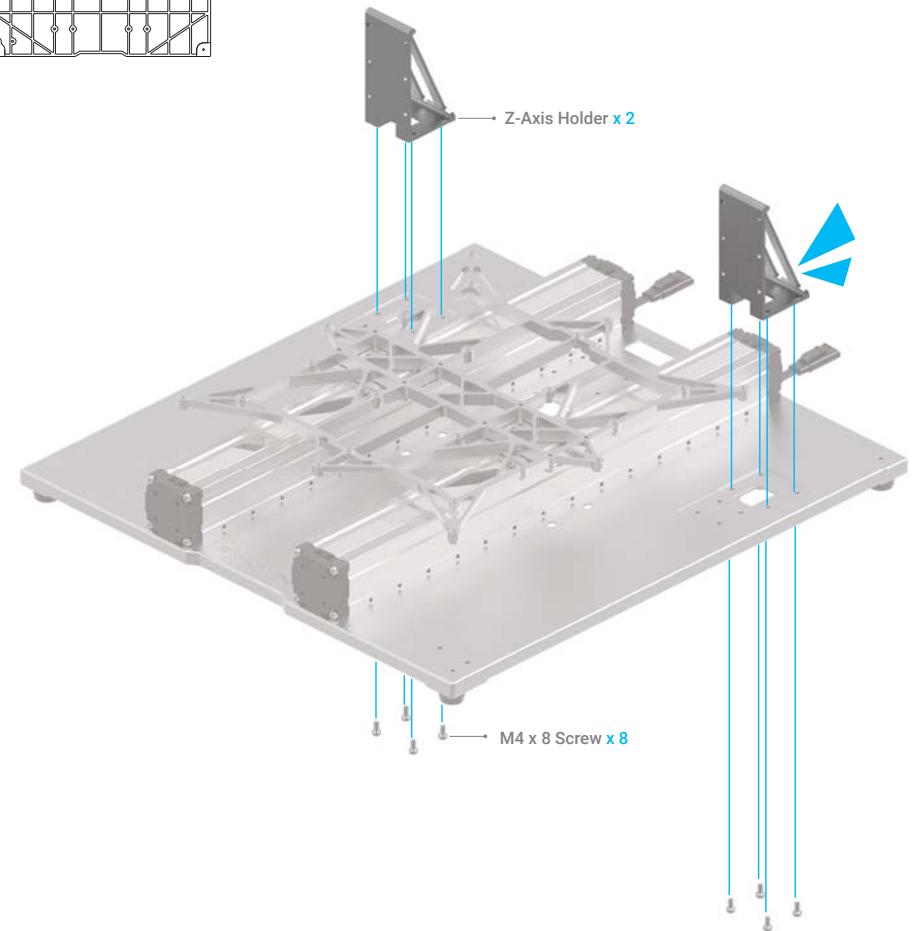
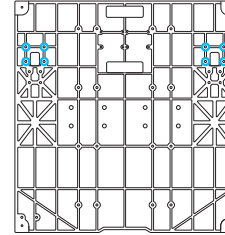
## 05/22

Tighten the screws on the Y-axis sliders.



## 06/22

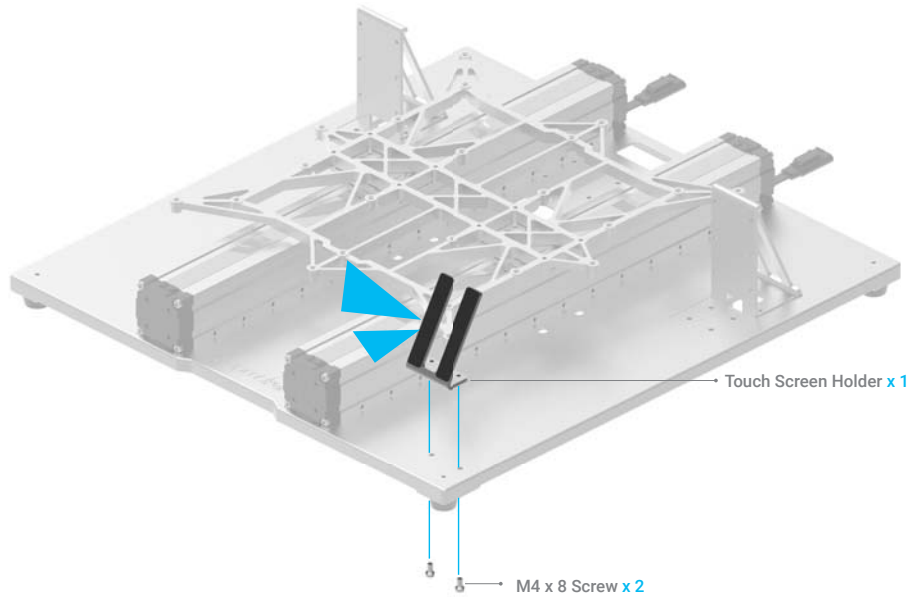
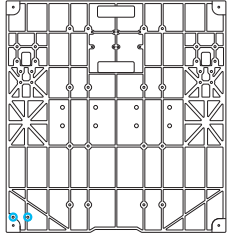
Attach the Z-Axis Holders to the Base Plate.



If the screws on the sliders are not aligning with the screw holes on the Base Plate, please move the Platform to the proper position.

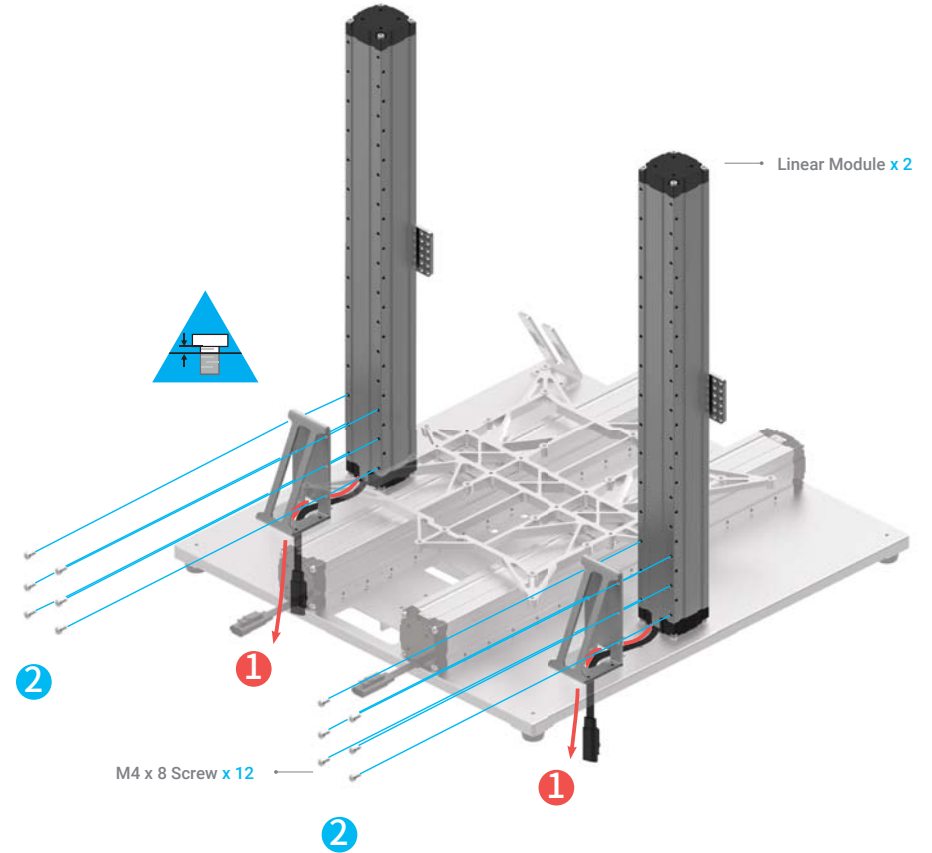
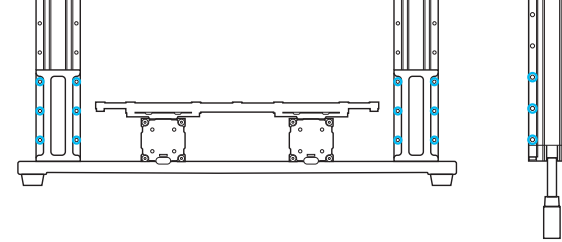
## 07/22

Attach the Touch Screen Holder to the Base Plate.



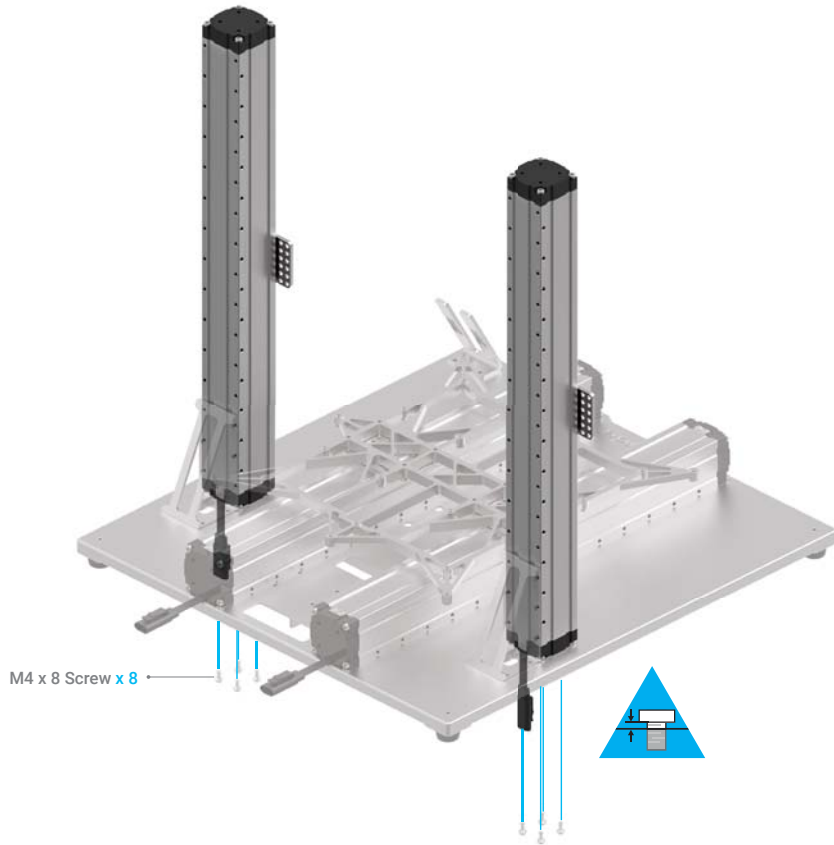
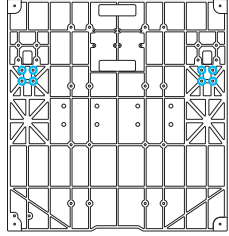
## 08/22

Thread the connecting cables through the holes of the holders, then attach the Z axes to the Z-Axis Holders. Do not tighten the screws until Step 12.



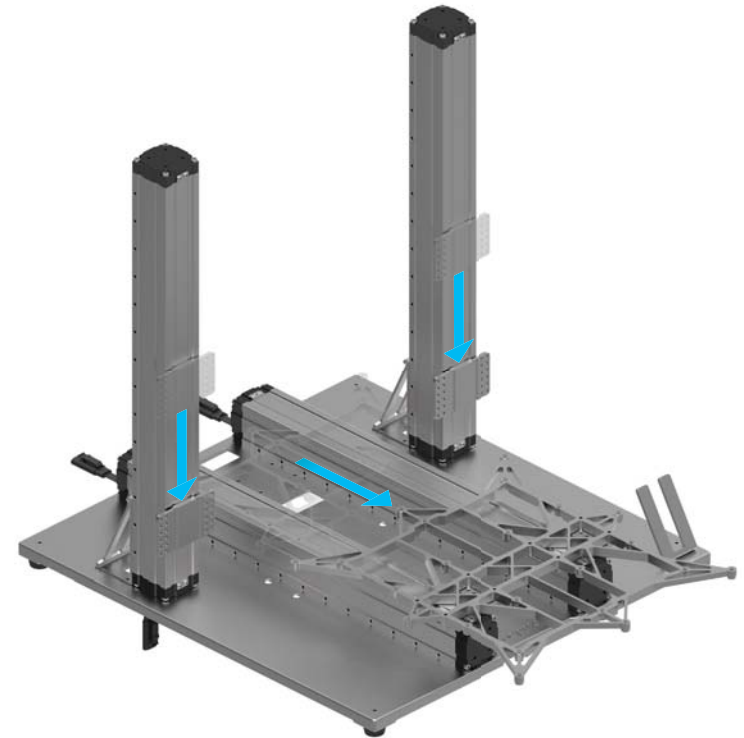
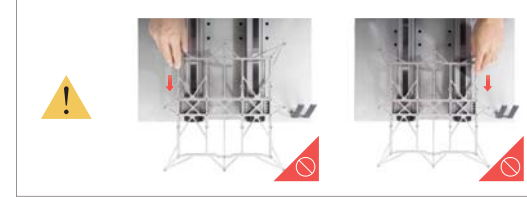
## 09/22

Install the screws located on the Z-axis bottoms. Do not tighten the screws until Step 13.



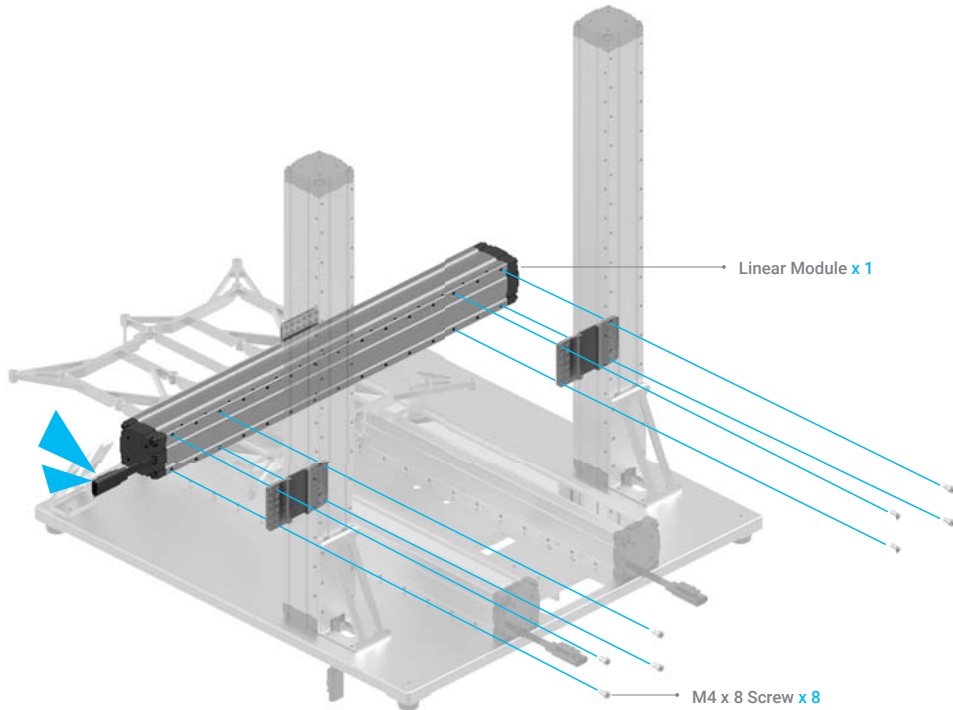
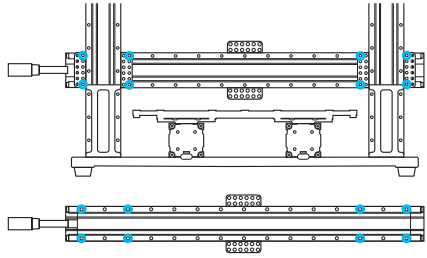
## 10/22

In the midline direction, manually move the Platform to the position as illustrated. Then move the Z-axis sliders to the bottom that they can reach.



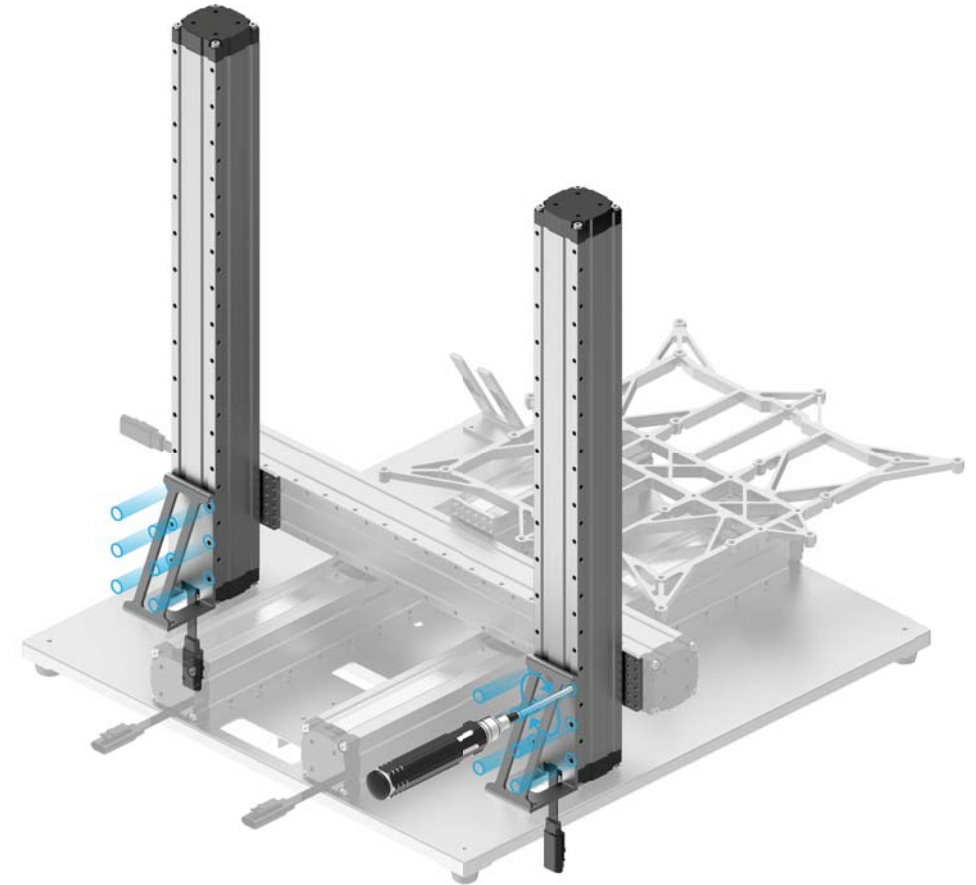
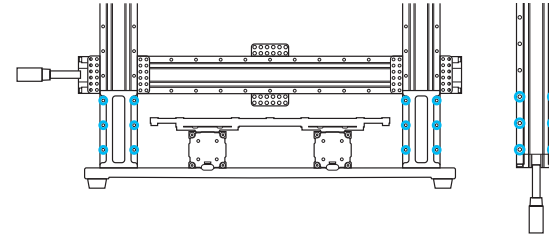
## 11/22

Attach the X axis to the sliders of the Z axes.



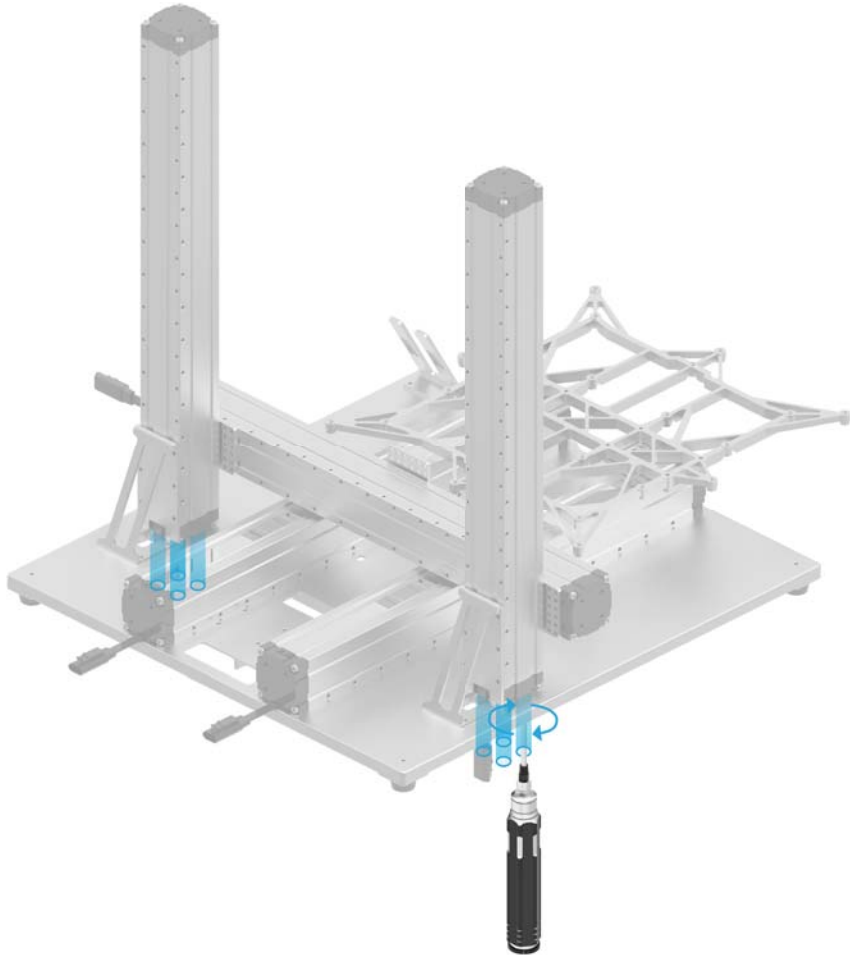
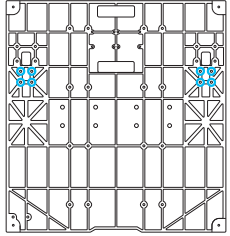
## 12/22

Tighten the screws that are used to attach the Z axes to the Z-Axis Holders.



## 13/22

Tighten the screws located on the Z-axis bottoms.

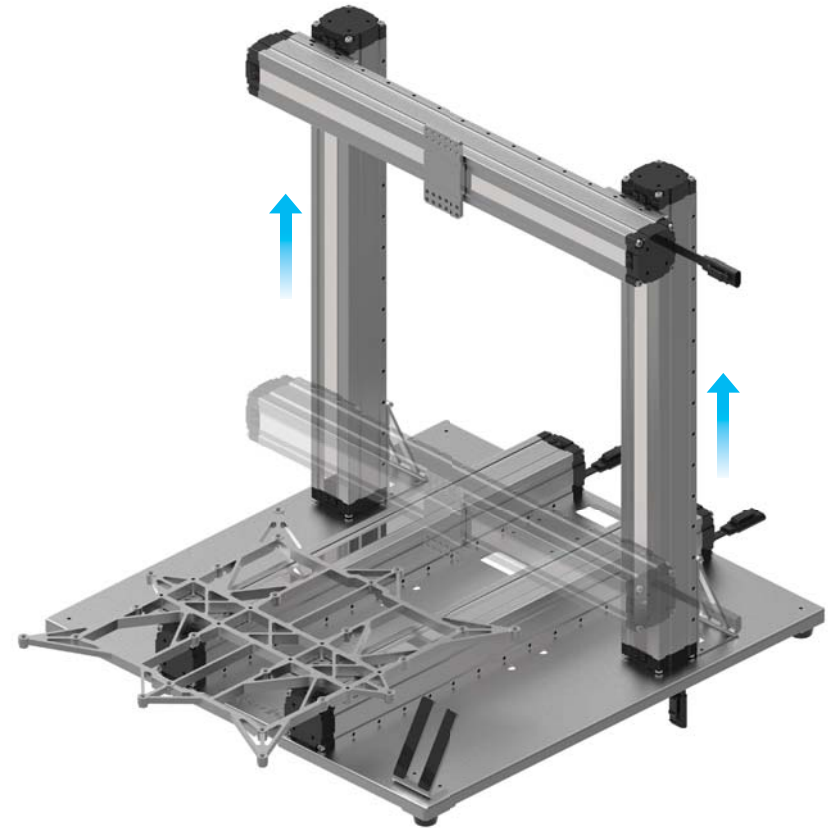


## 14/22

Put your hands at each end of the linear module, then move the X axis to the top.

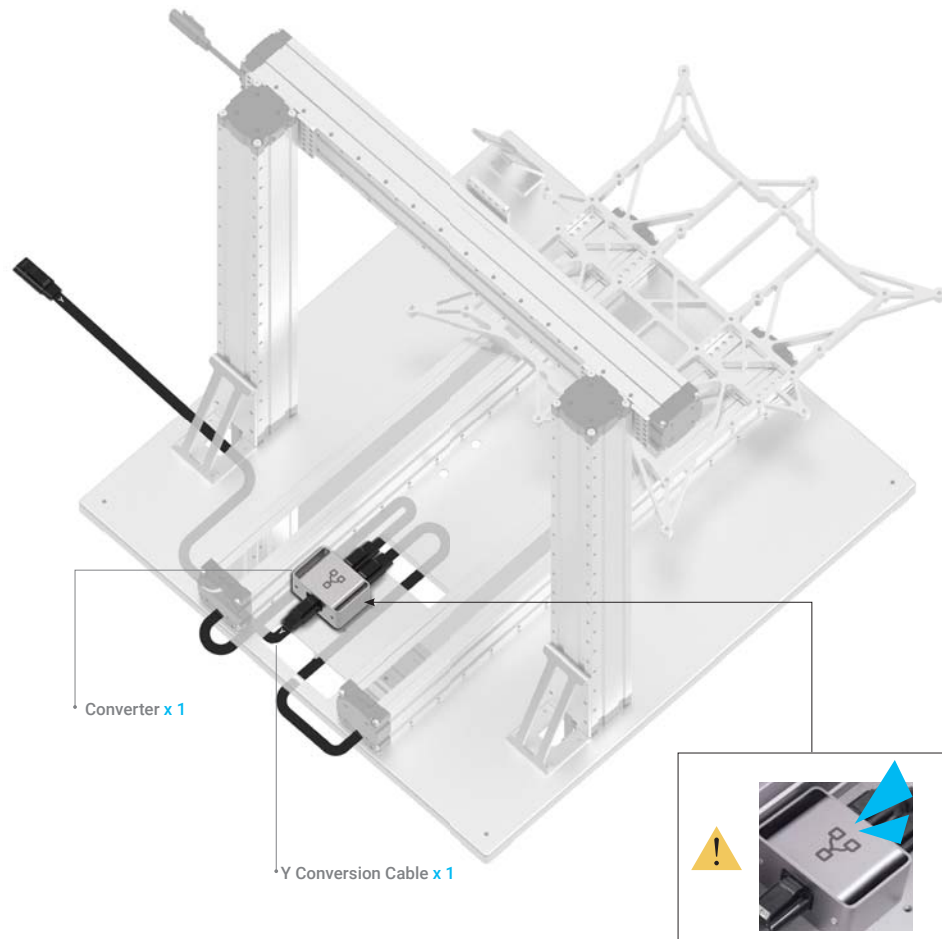


Make sure both ends of the linear module are in horizontal alignment with each other throughout the process.



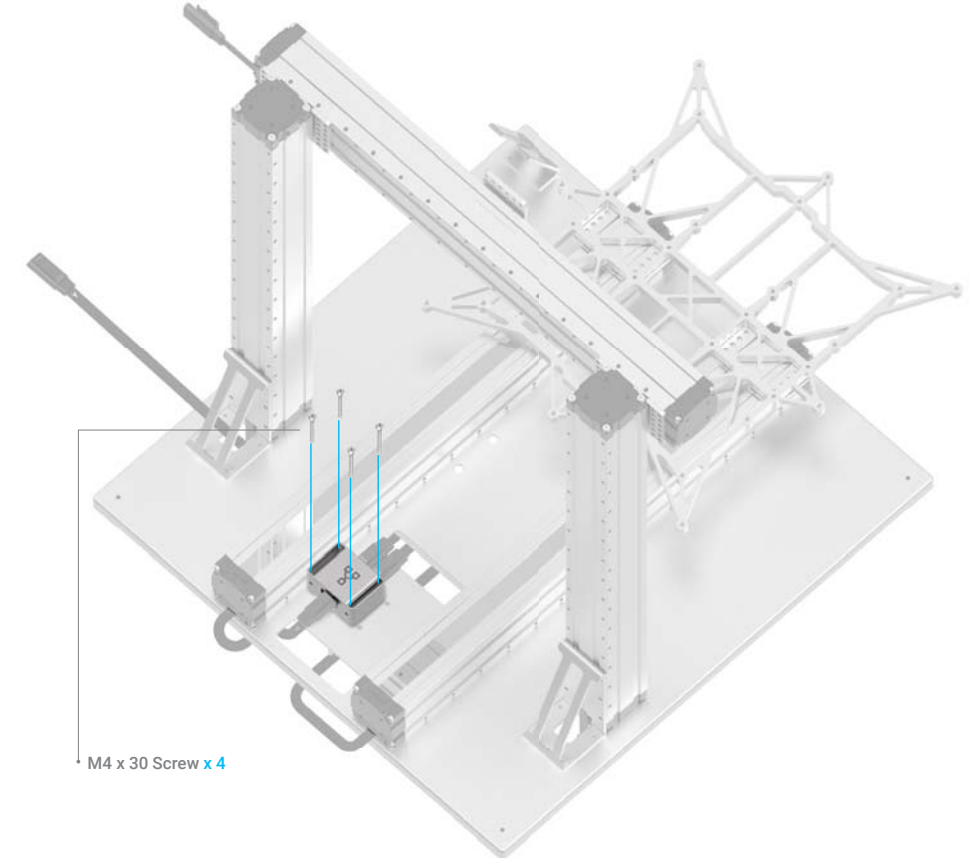
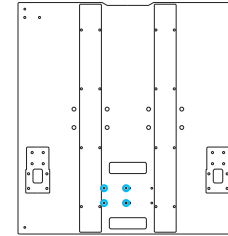
## 15/22

Locate the Y Conversion Cable and the Y-axis connecting cables as illustrated, then connect them to the Converter.



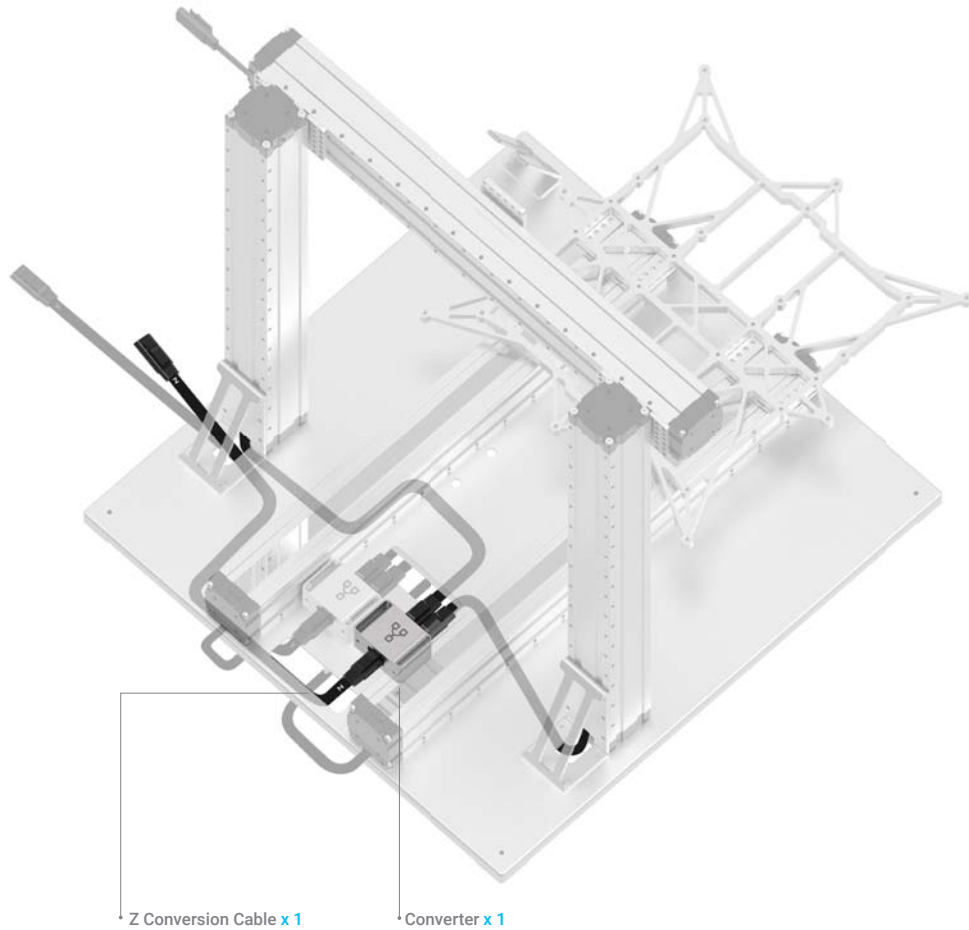
## 16/22

Attach the Y-axis converter to the Base Plate.



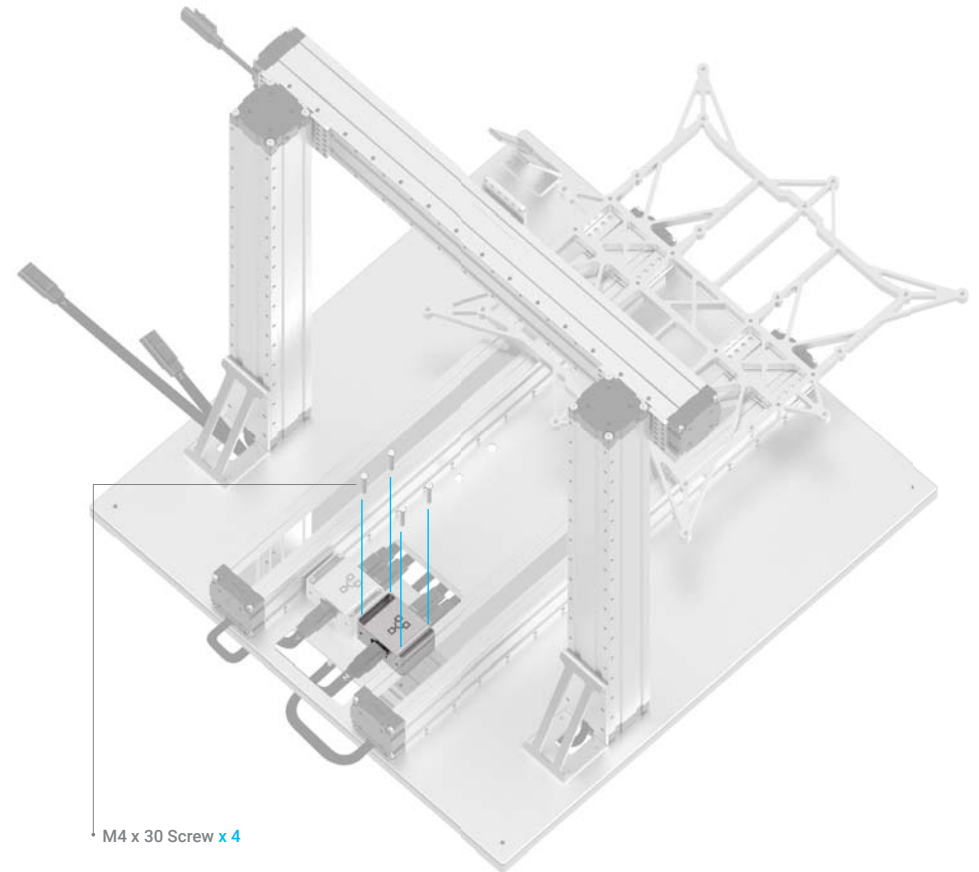
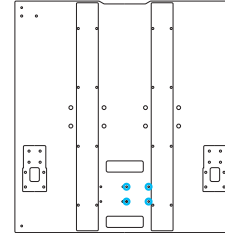
## 17/22

Locate the Z Conversion Cable and the Z-axis connecting cables as illustrated, then connect them to the Converter.



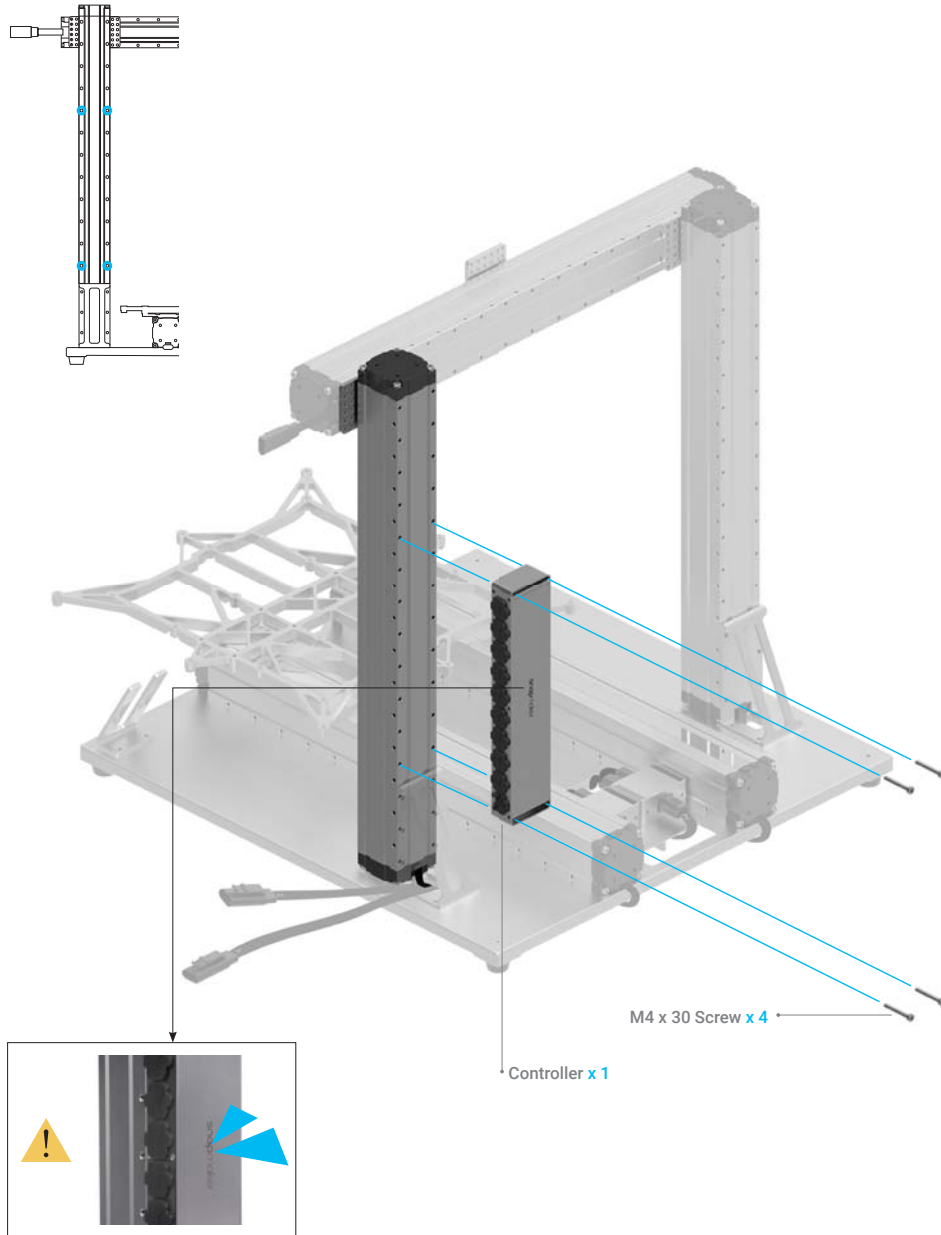
## 18/22

Attach the Z-axis converter to the Base Plate.



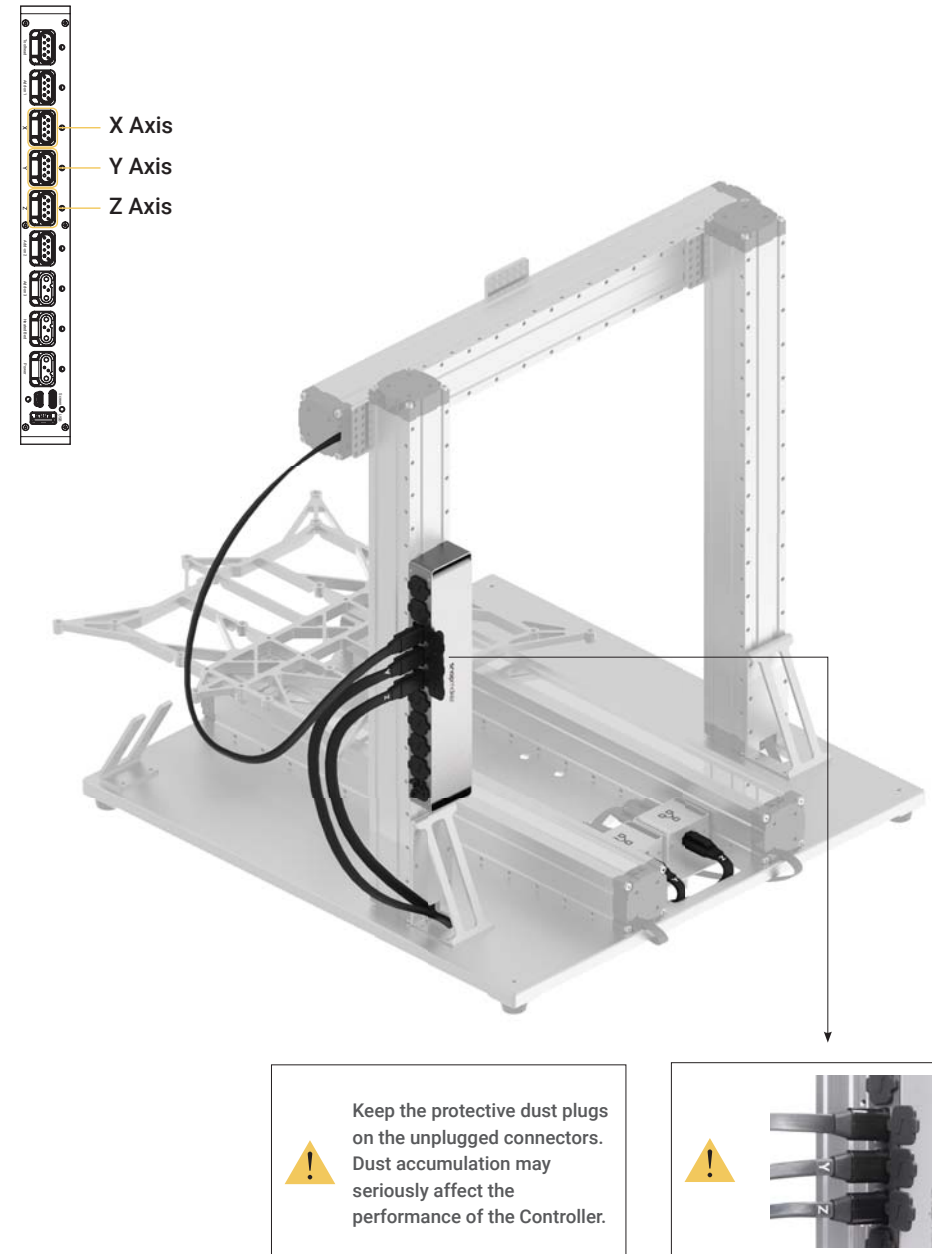
## 19/22

Attach the Controller to the Z axis.



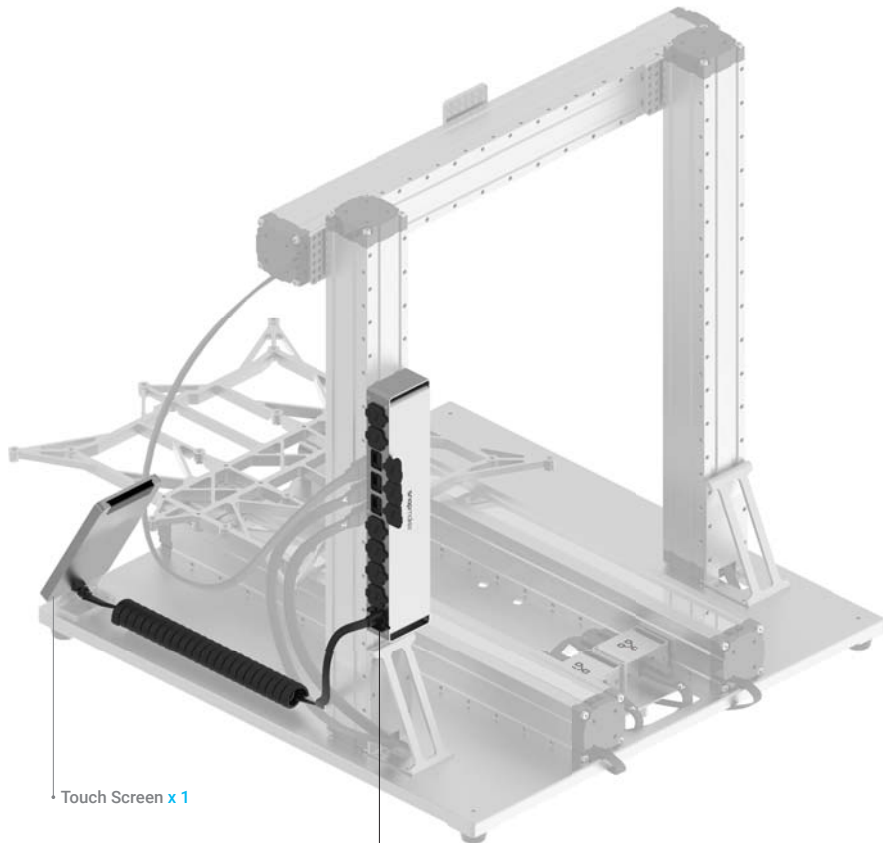
## 20/22

Open the dust plugs, then connect the X, Y and Z axis to the Controller.



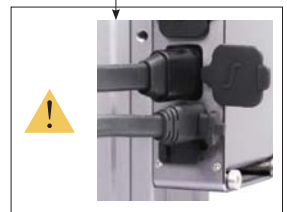
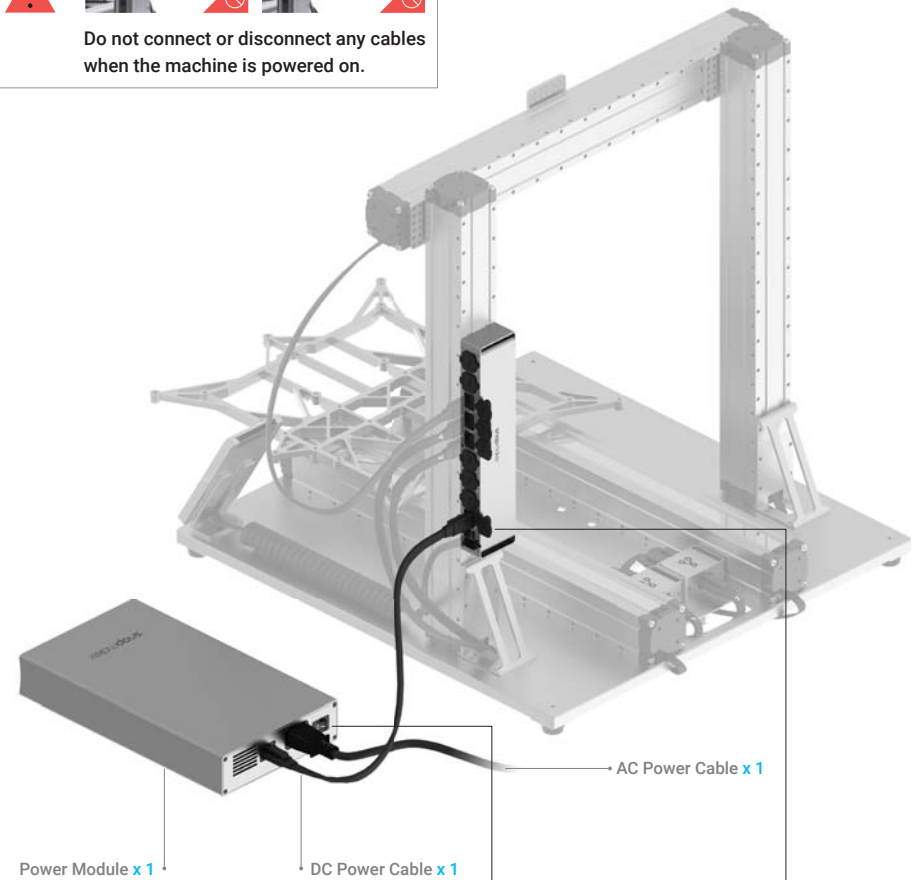
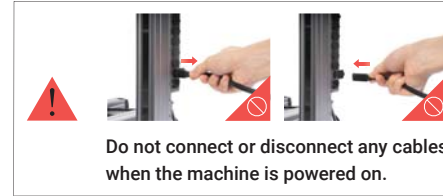
## 21/22

Place the Touch Screen, then connect the Touch Screen to the Controller.

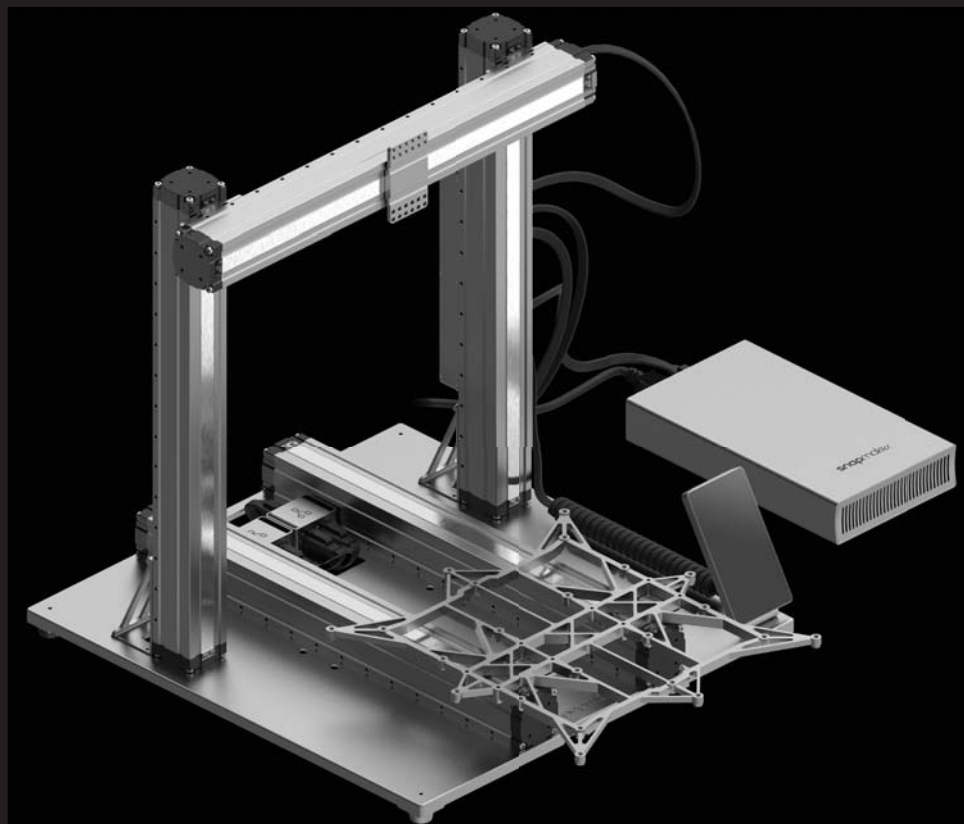


## 22/22

Connect the cables for the Power Module.



After assembling the machine body, you can select one function to complete the assembly.



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**3D Printer**

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**Laser Engraver  
and Cutter**

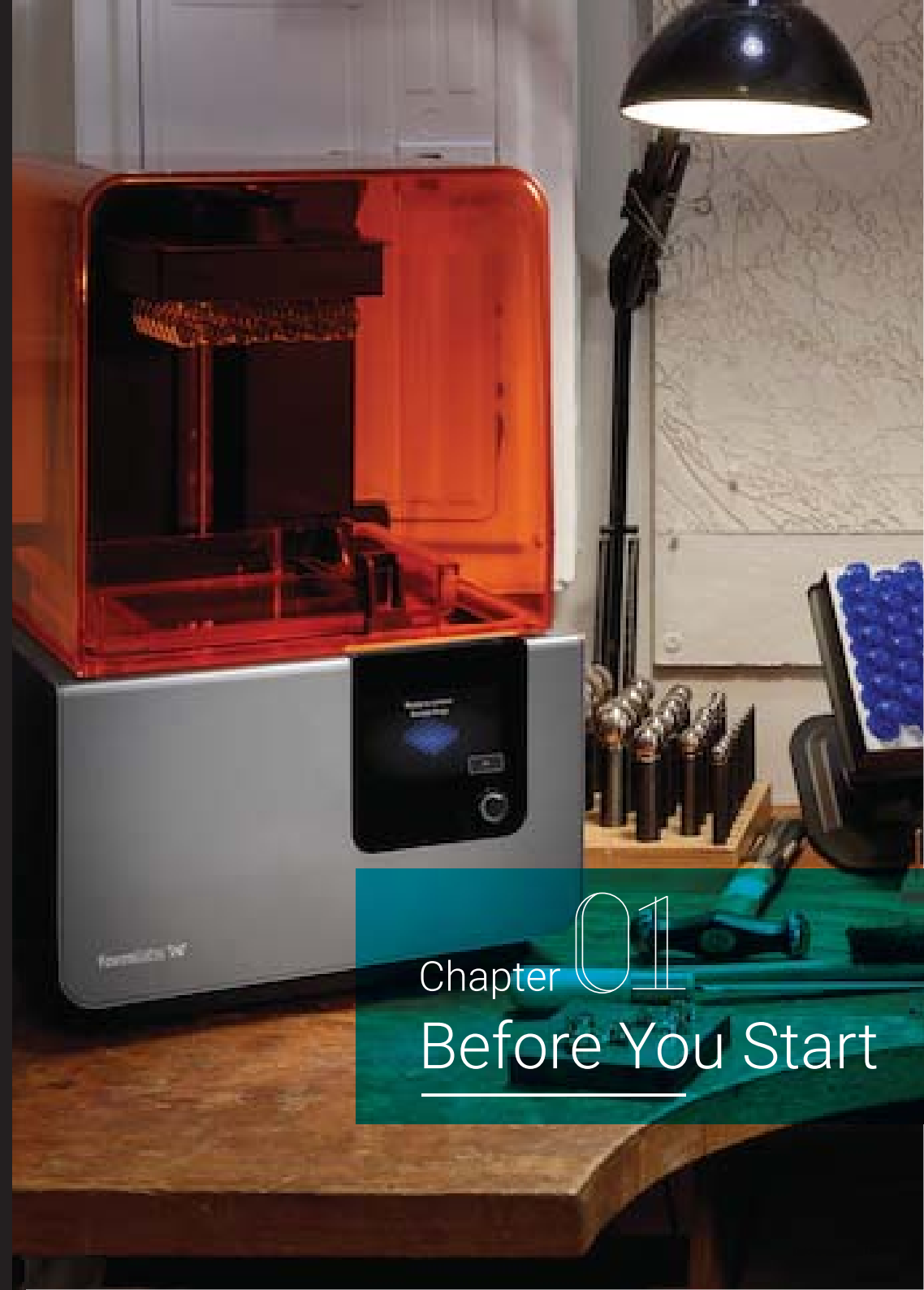
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**CNC Carving**

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Chapter 01  
Before You Start



## 3D Printing

3.1

### Assembly and Initial Setup



3.1.1

Assemble the 3D Printing Module, Filament Holder and Heated Bed



3.1.2

Initial Setup

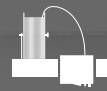
3.2

### Get Started



3.2.1

Level the Heated Bed



3.2.2

Load Filament

3.3

### Start Printing



3.3.1

Prepare the G-code File



3.3.2

Start Your First Print



3.3.3

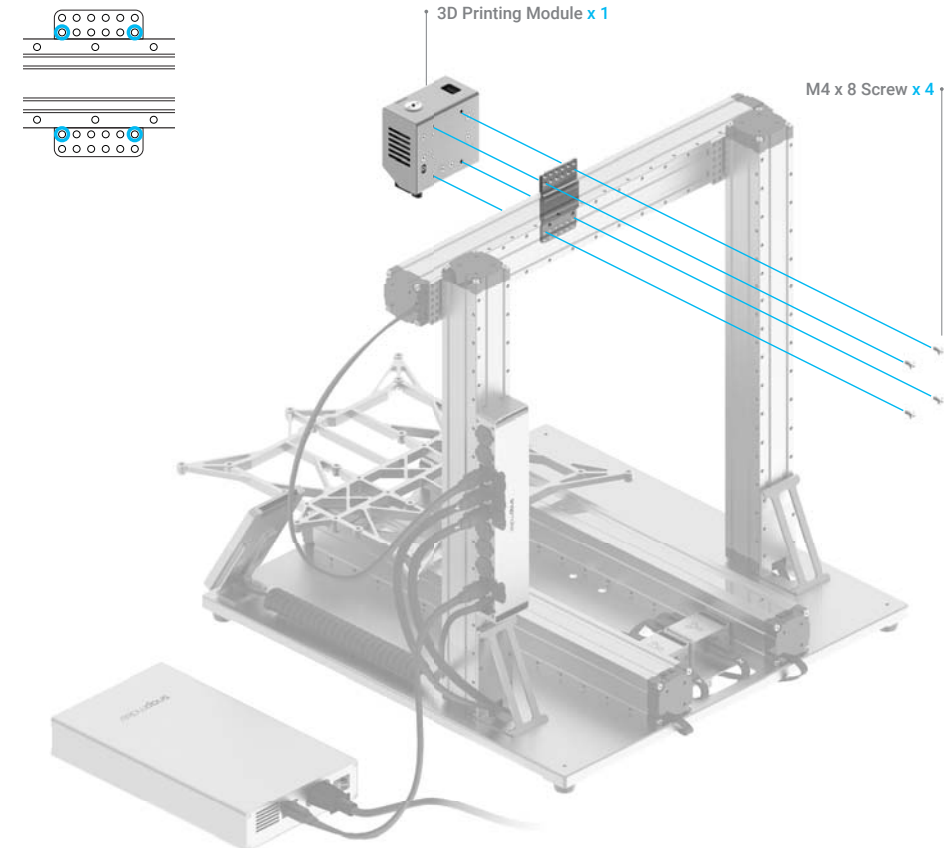
Remove the Print

## 3.1.1 Assemble the 3D Printing Module, Filament Holder and Heated Bed

Article & Pictures / Snapmaker

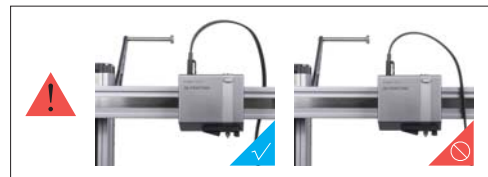
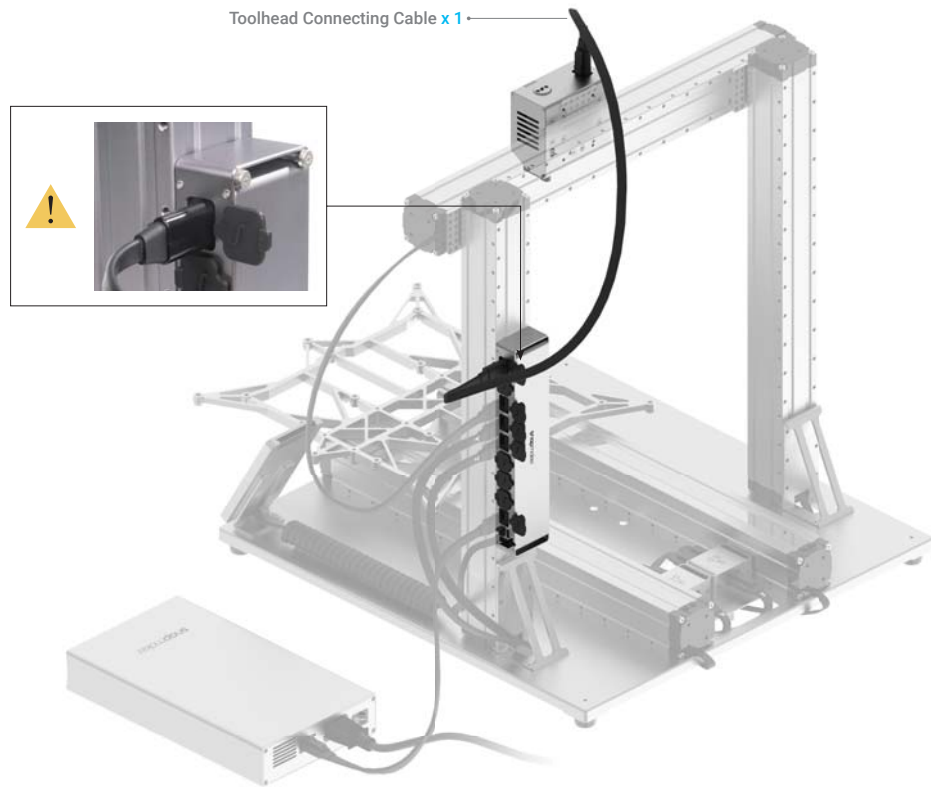
**01/06**

Attach the 3D Printing Module to the slider of the X axis.



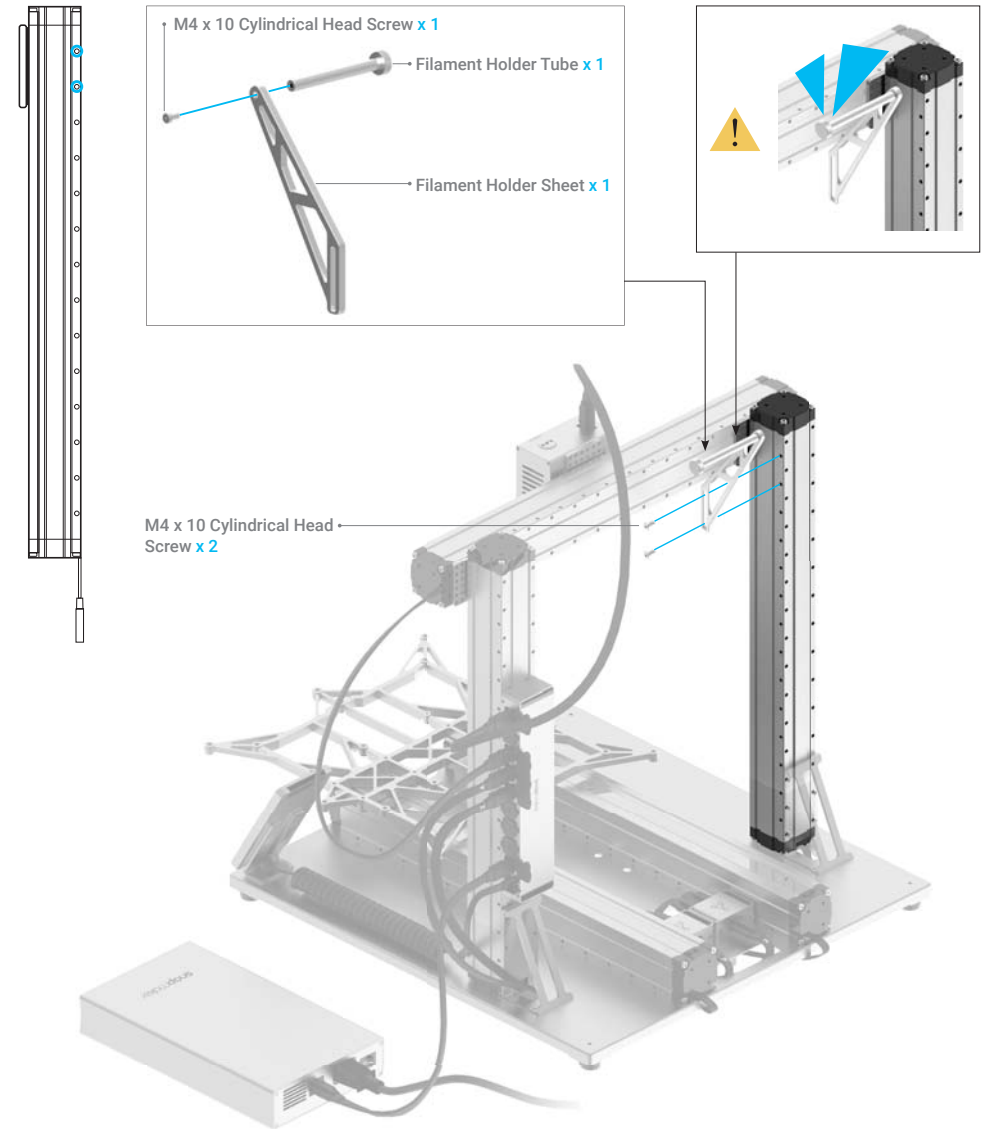
## 02/06

Connect the 3D Printing Module to the Controller.



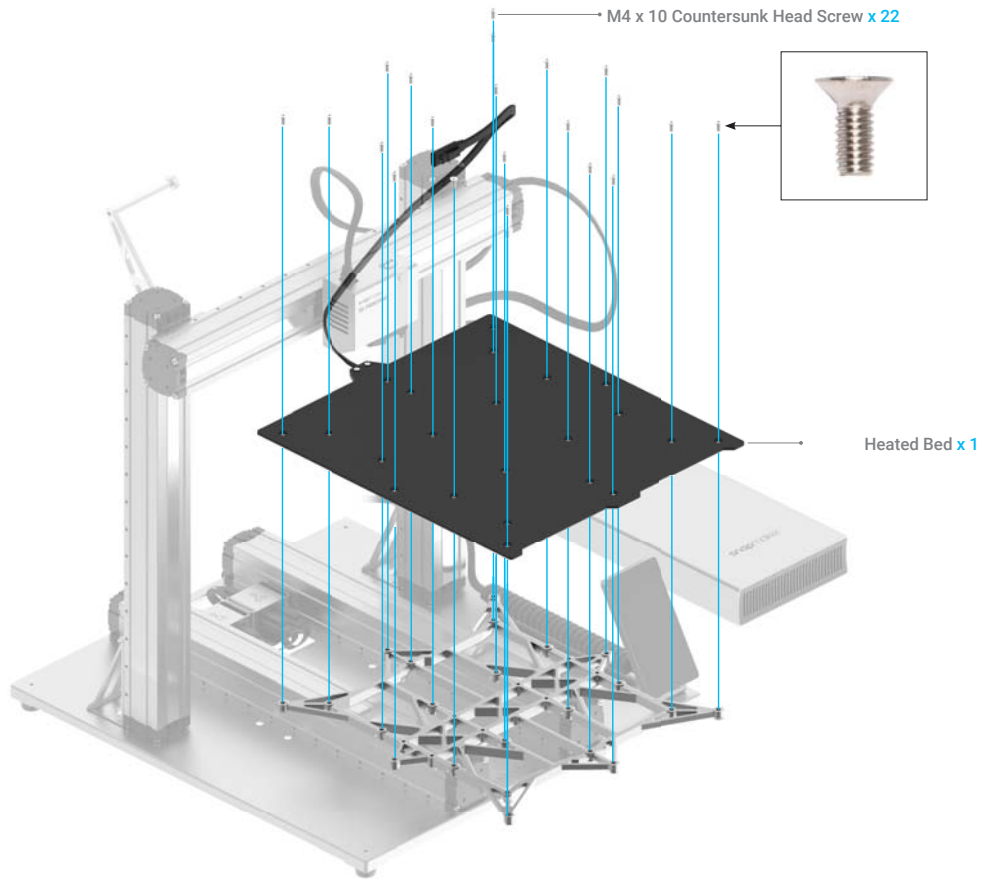
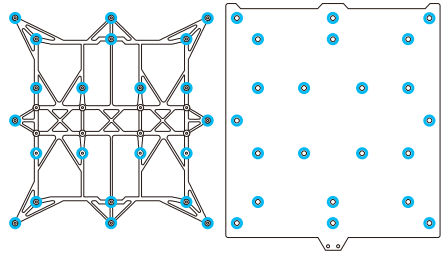
## 03/06

Attach the Filament Holder to the Z axis.



## 04/06

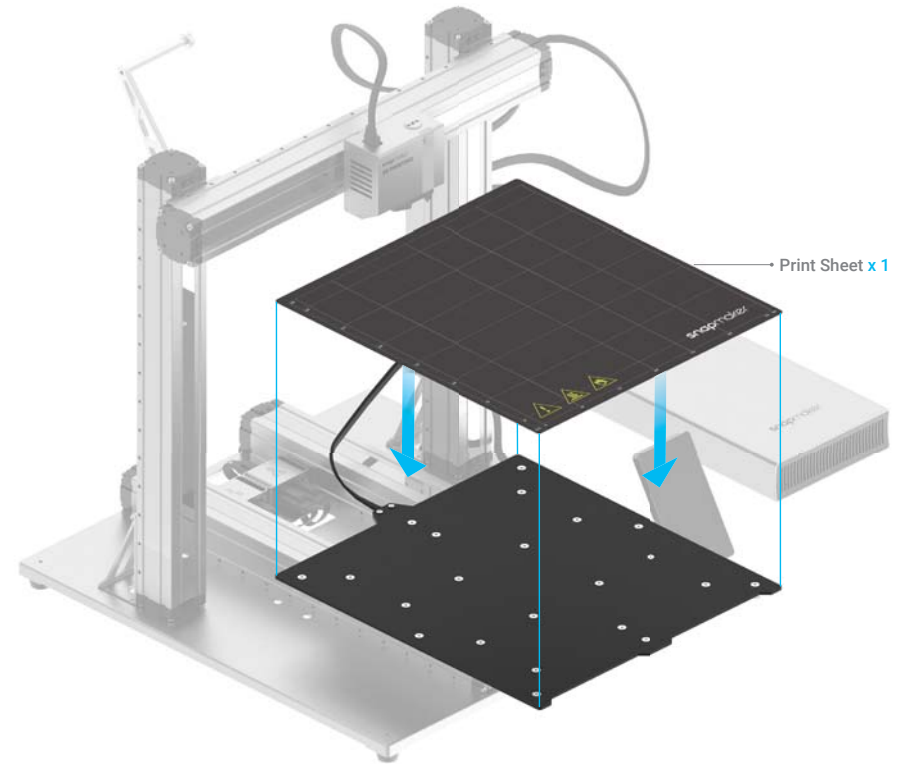
Attach the Heated Bed to the Platform.



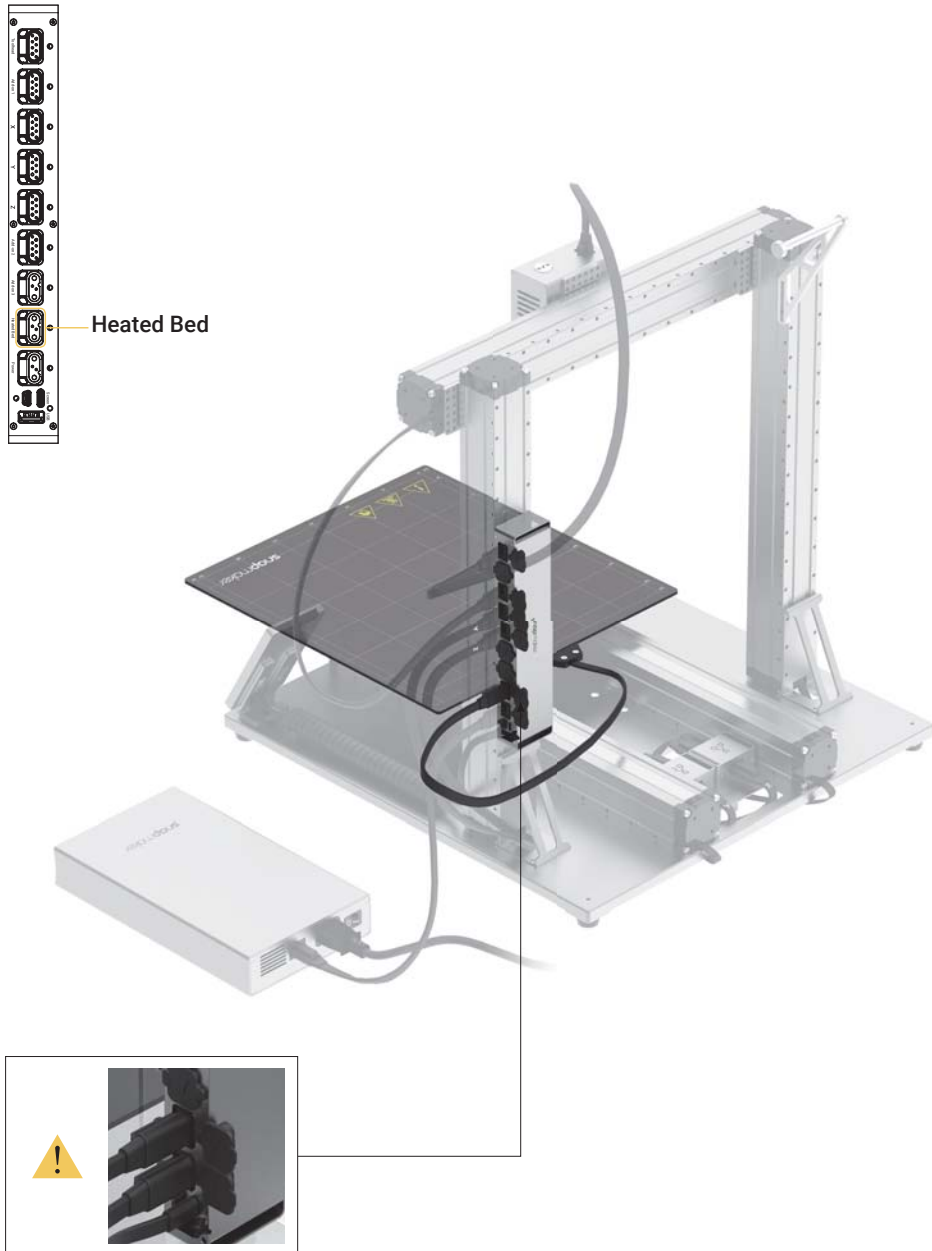
## 05/06

Place the Print Sheet.

- ! Make sure the Print Sheet is fitted onto the Heated Bed and is in alignment with it.
- ! Keep the surface of the Print Sheet clean without any foreign materials.



Connect the Heated Bed to the Controller.



## 3.1.2 Initial Setup

Article & Pictures / Snapmaker

Make sure both the power cables of the Power Module have been connected. Switch the power on to complete the initial setup for your first use: Select One Language -> Read the Disclaimer -> Name the Machine -> Connect to a Wi-Fi Network.



## 3.2.1 Level the Heated Bed

Article &amp; Pictures / Snapmaker

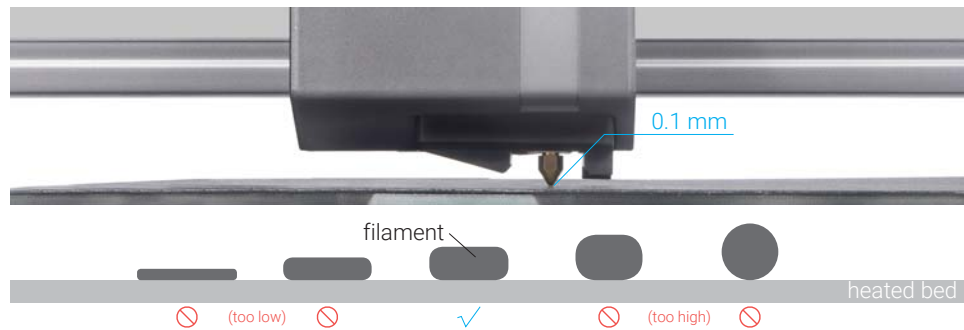
### How It Works: Auto-Leveling

Using the sensor, the 3D printing module will conduct a compensation leveling procedure for all the 9 points first. Then you just need to manually calibrate the Z-Offset for the last point I.



### How It Works: Calibrate the Z-Offset for Point I

Manually calibrate the Z-Offset for Point I by using the calibration card or a piece of A4 paper. Improper calibration of the Z-Offset can result in poor adhesion.



## How to Level

1. The touch screen will guide you through initiating the procedure. The machine will start leveling automatically from Point A and finish at Point I. Afterwards, you need to manually calibrate the Z-Offset.
2. Manually calibrate the Z-Offset for Point I by using the calibration card or a piece of A4 paper.
  - (1) Place the calibration card between the nozzle and the heated bed.



- (2) Keep adjusting the height of the nozzle using Up and Down buttons until there is slight resistance when you pull out the calibration card, and it should be wrinkled when you push it forward.



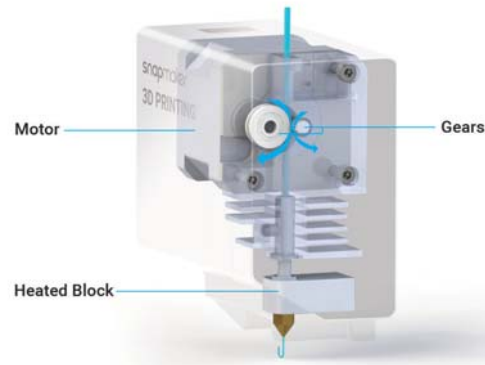
- (3) Tap Save to save the parameters.

## 3.2.2 Load Filament

Article &amp; Pictures / Snapmaker

### How It Works: Auto-Loading

The motor drives the filament into the extruder, then the filament extrudes through the nozzle after being heated by the heated block.

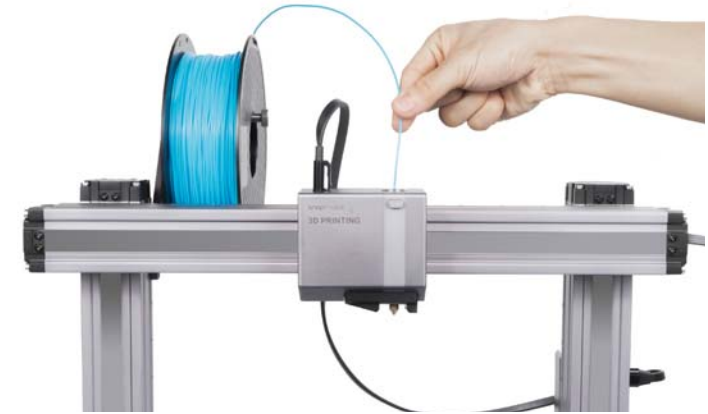


### How to Load Filament

(1) Hang the provided PLA filament over the filament holder as illustrated. Cut the bending end of the filament using the diagonal pliers, then insert the filament into the 3D printing module.

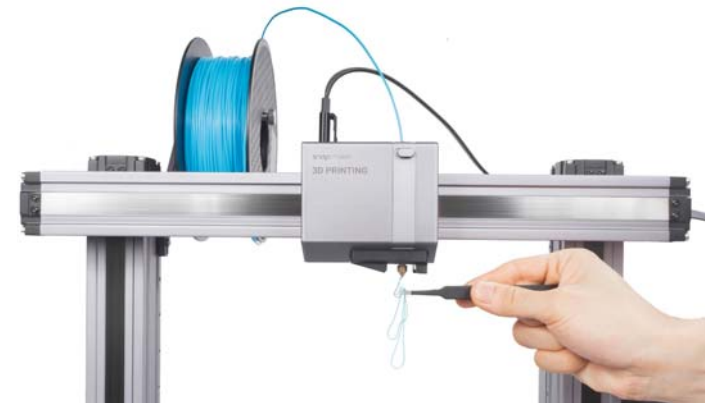


(2) Tap **Start** on the **Load Filament** screen. After the current temp reaches the target temp, tap Load and then gently push the filament into the 3D printing module until you can feel the motor pulling the filament in.



! You can change the target temp by sliding.

(3) Clean the nozzle using the tweezer, then tap **Done**.



! If there is no filament coming out of the nozzle, do not tap Done until you repeat the above steps and the filament extrudes successfully.



## Congratulations!

You are now ready to print, please refer to the next chapter to generate the G-code file.



When you need to change the filament, swipe left on the main screen, then select Control and Nozzle. After the current temp reaches the target temp, tap Unload and pull the filament free. Try unloading once more when needed.



## 3.3.1 Prepare the G-code File

Article & Pictures / Snapmaker

### 1. Install the Software and Complete the Initial Setup

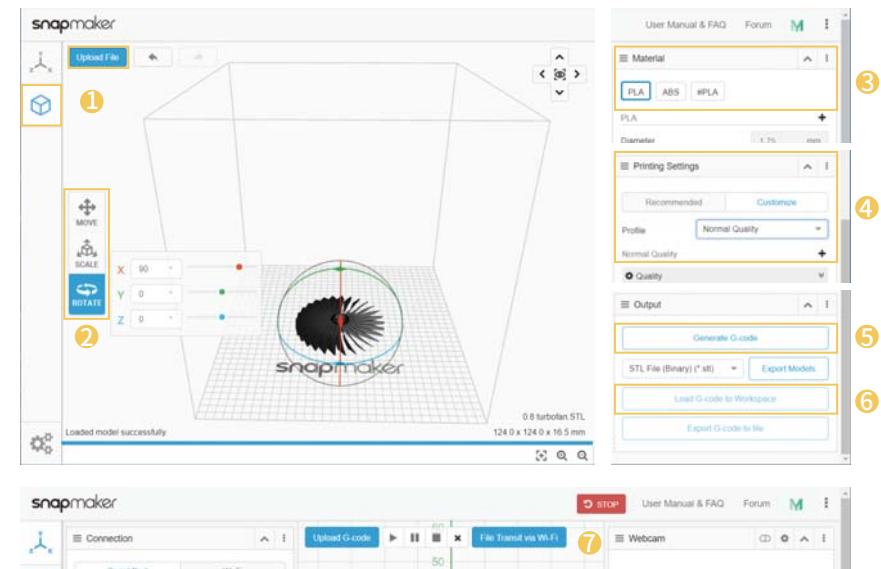
Download our software Snapmakerjs at <https://www.snapmaker.com/download> and install it. Then connect to a Wi-Fi network: Enter the Workspace -> Connection -> Select Wi-Fi -> Click -> Select your machine.

### 2. Generate the G-code File and Send It to the Machine

Complete the following operations in the 3D printing G-code generator : ① Upload the model file bundled on the provided USB disk -> ② Adjust the model -> ③ Select the material -> ④ Configure the printing settings -> ⑤ Generate the G-code file -> ⑥ Load G-code to Workspace -> ⑦ Send G-code to the machine via Wi-Fi.



When you configure the printing settings, adhesion is required for our provided model: Select **Customize** -> Select the profile **Normal Quality** -> Click to copy the profile -> Select **Raft**, 2mm in **Adhesion**.



Files sent by Wi-Fi can be found on the screen: Files > Local.

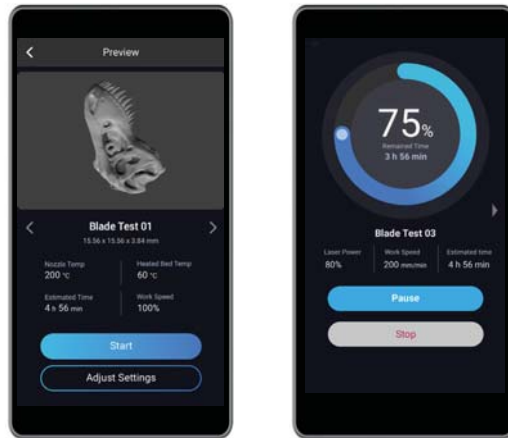


You can also send the G-code files to the machine via the USB disk. Click Export G-code to file in Snapmakerjs and save it to the USB disk, then insert the USB disk into the controller and select Files > USB on the touch screen.

## 3.3.2 Start Your First Print

Article &amp; Pictures / Snapmaker

After receiving the G-code file, click **YES** and **Start** on the touch screen to start printing.



If you need to adjust settings, you can either click **Adjust Settings** prior to printing or swipe left on the printing progress screen.

If you run into the issues of poor adhesion, try leveling the heated bed again: swipe left on the main screen, then select **Calibration** and **Auto-Leveling**. Make sure the nozzle is clean prior to leveling.



## 3.3.3 Remove the Print

Article &amp; Pictures / Snapmaker

Wait for the temperatures of the nozzle and the heated bed to drop to room temperature (displaying on the touch screen). Remove the print sheet from the heated bed and bend it slightly.



The nozzle and the heated bed are still extremely hot right after printing.



You can also use the palette knife to remove the print.



The palette knife is sharp.



# Share!

You can share your prints in our Facebook groups and our forum.



## Laser Engraver and Cutter

4.1

### Assembly and Initial Setup



4.1.1  
Assemble the Laser Engraver and Cutter



4.1.2  
Initial Setup

4.2

### Get Started



4.2.1  
Measure the Focal Length



4.2.2  
Calibrate the Camera



4.2.3  
Immobilize the Material



4.2.4  
Stitch the Photos of the Platform

4.3

### Start Engraving/Cutting



4.3.1  
Prepare the G-code File



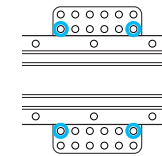
4.3.2  
Start Your First Cutting

## 4.1.1 Assemble the Laser Engraver and Cutter

Article & Pictures / Snapmaker

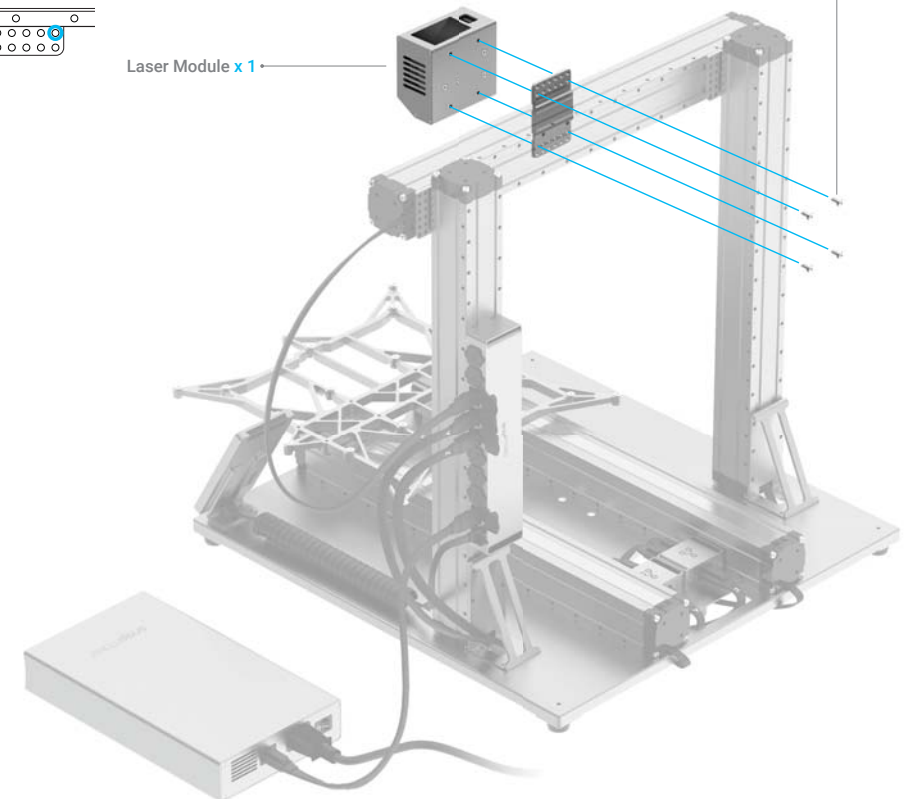
### 01/03

Attach the Laser Module to the slider of the X axis.



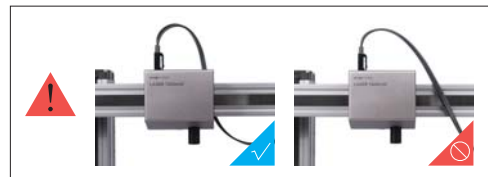
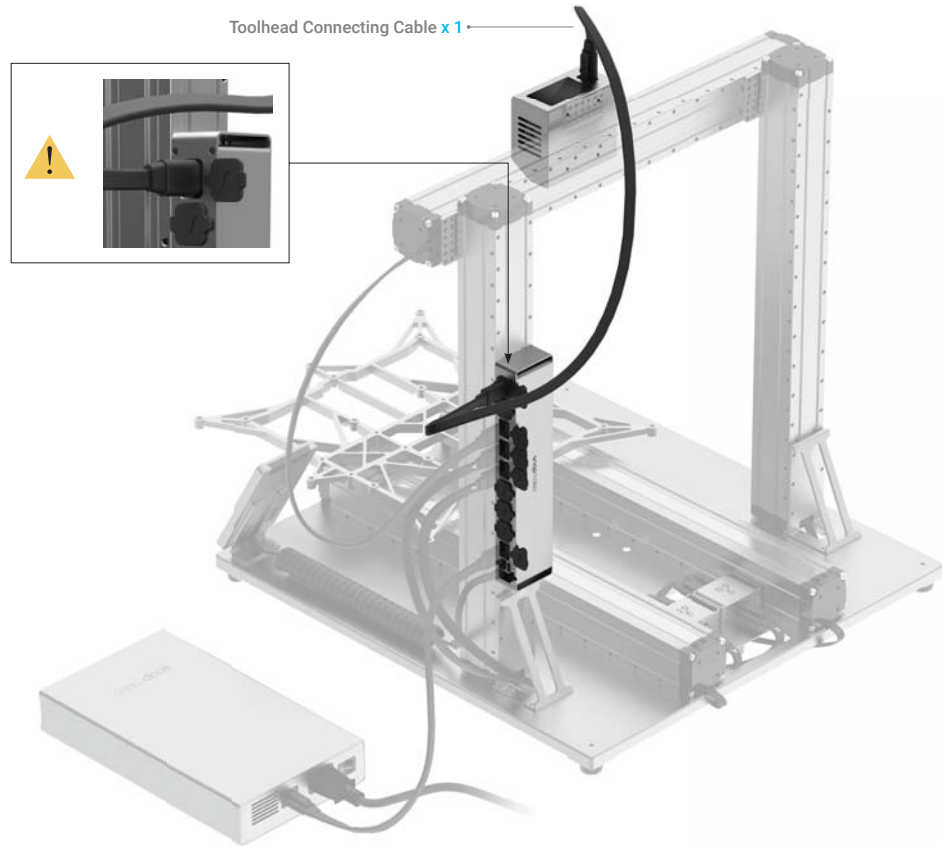
Laser Module x 1

M4 x 8 Screw x 4



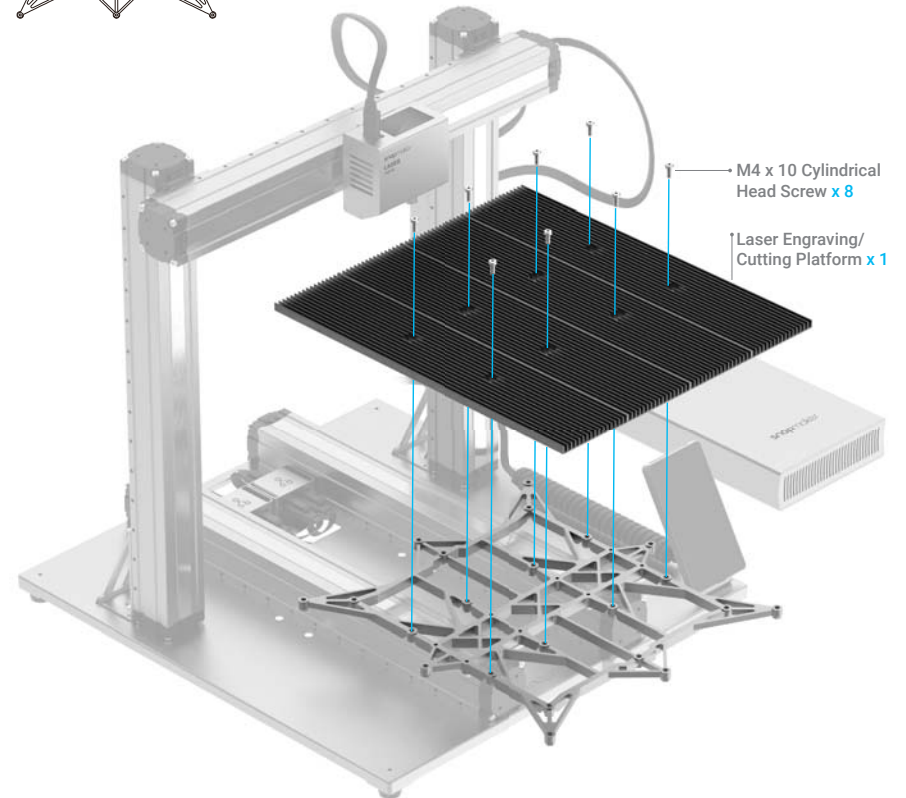
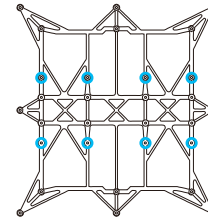
## 02/03

Connect the Laser Module to the Controller.



## 03/03

Attach the Laser Engraving/Cutting Platform to the Platform.



Note: The Laser Head only support BT function  
The Control Screen support BT&2.4G&5GWiFi function  
Laser Head must be used together with Control Screen and cannot be used alone

## 4.1.2 Initial Setup

Article &amp; Pictures / Snapmaker

Make sure both the power cables of the Power Module have been connected. Switch the power on to complete the initial setup for your first use: Select One Language -> Read the Disclaimer -> Name the Machine -> Connect to a Wi-Fi Network.

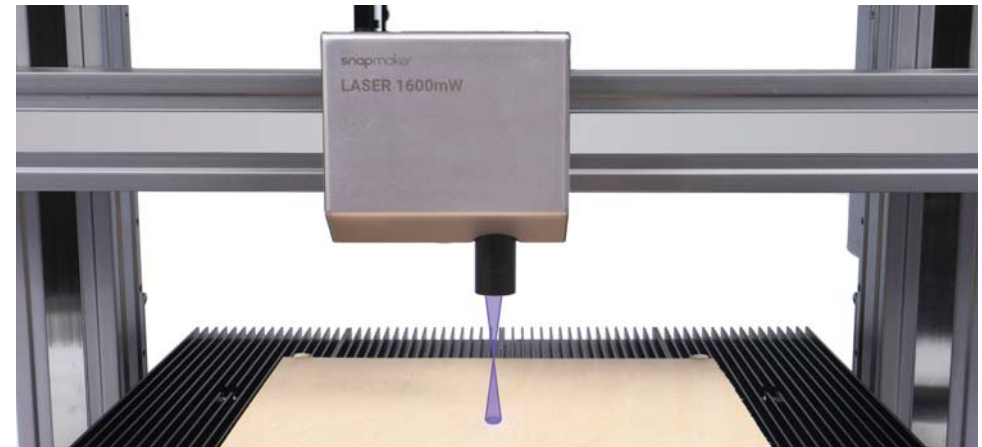


## 4.2.1 Measure the Focal Length

Article &amp; Pictures / Snapmaker

### How It Works: Focus Position

The best focusing result can only be achieved when there is a proper distance between the laser module and the material. You just need to re-enter the thicknesses of different materials once the focal length has been determined, the machine will automatically adjust to ensure that the focal length is consistent.



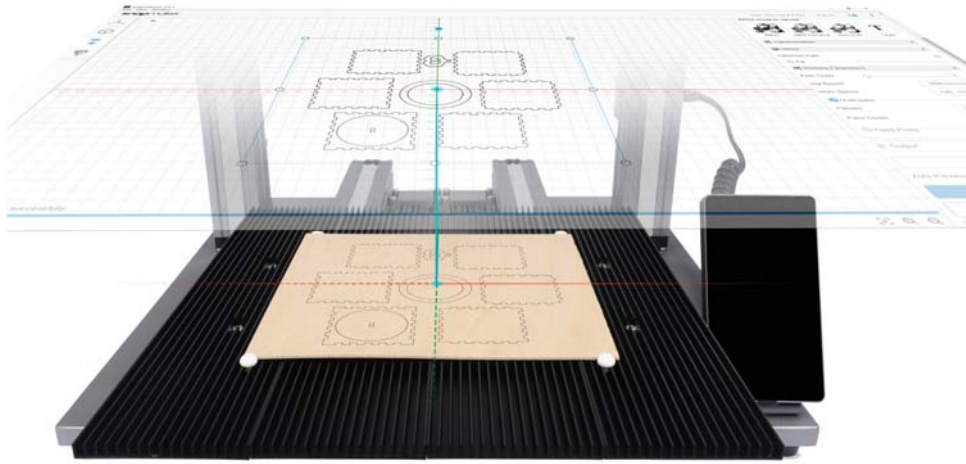
### How It Works: Focal Length

The machine engraves a few lines at different heights and identify the line of the best engraving result, the length used for engraving this line will be used as focal length.



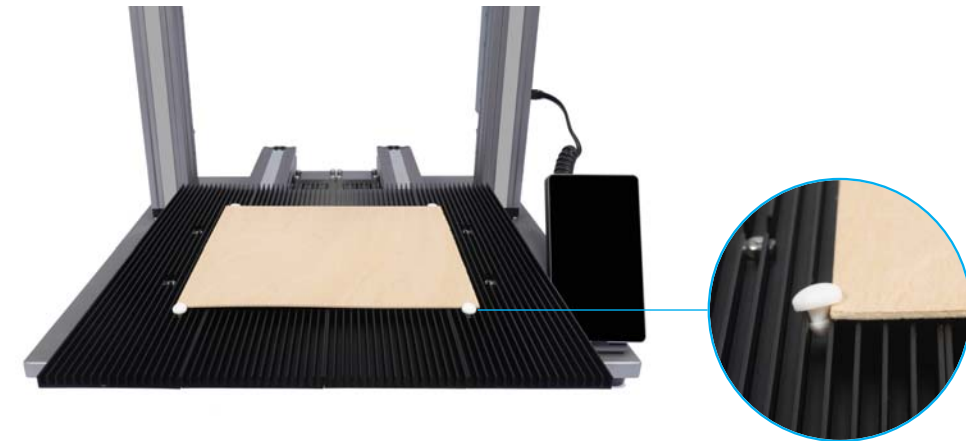
## How It Works: Work Origin and Coordinate Origin

Find out where the engraving/cutting will be by setting the work origin. The work origin corresponds to the (0, 0) coordinate origin in the software.



## How to Measure the Focal Length

① Place the provided material on the laser engraving/cutting platform, then immobilize it using the silicone stoppers.



② Enter the thickness of the material, then tap Save.

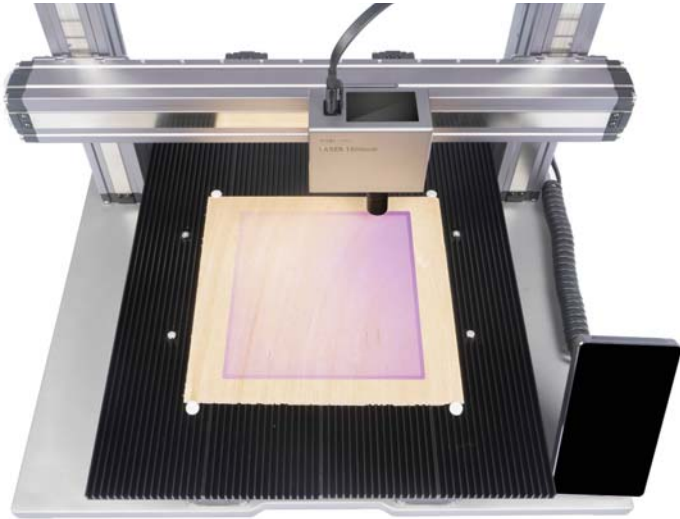


③ Tap **X-/X+/Y-/Y+/Z-/Z+** to move the laser module, tap **Next** after the lens hood has slightly touched the surface of the material (It helps reduce errors in this way). Make sure you have worn the Laser Safety Glasses before setting the work origin.

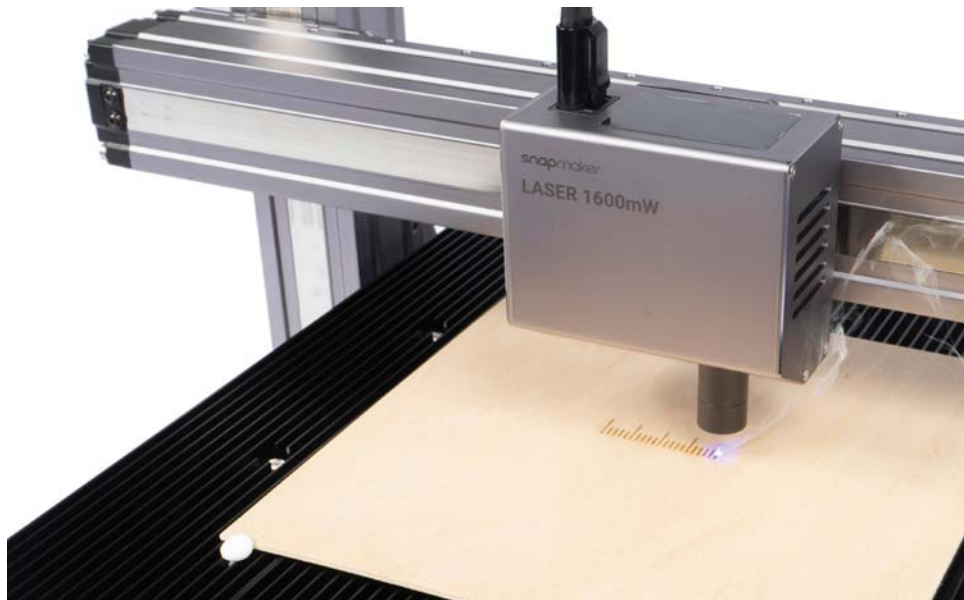


④ Tap **X-/X+/Y-/Y+** to move the laser dot to where the work origin will be, then tap **Set Work Origin** and **Run Boundary** to check if the work origin is proper. If the work origin is improper, reset the work origin and run boundary again.

⚠ If the laser module runs into any portions of the machine, power off the machine immediately.



⑤ Tap **Next**, the machine will conduct an Auto Focus procedure.



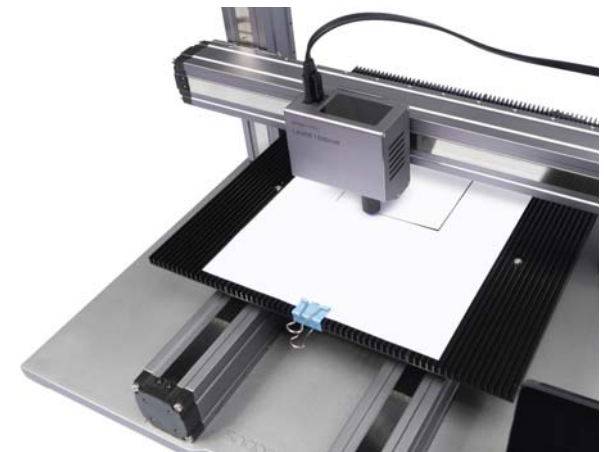
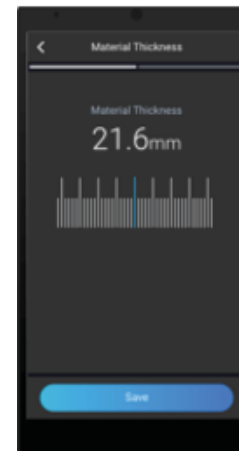
## 4.2.2 Calibrate the Camera

Article & Pictures / Snapmaker

1. With the reverse of the material facing up, immobilize the material near the center of the laser engraving/cutting platform. The clean side should be used for calibrating the camera.



2. Enter the thickness of the material, then tap **Start**. The machine will use the engraved square to calibrate the camera.

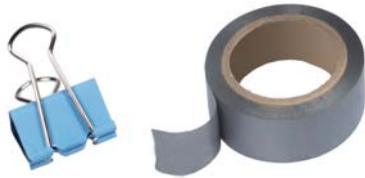


## 4.2.3 Immobilize the Material

Article &amp; Pictures / Snapmaker

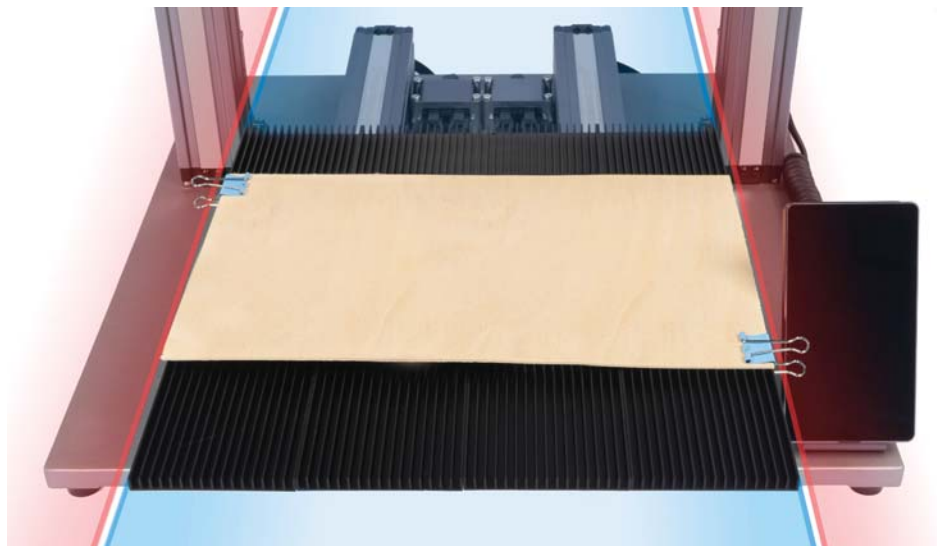
Remove the engraved material, then immobilize another provided material on the laser engraving/cutting platform.

 You can also immobilize materials using other items.



 If you need to immobilize thick materials, refer to 5.2.1 Immobilize the material.

 Make sure the clamp set will not collide with any portions of the machine.

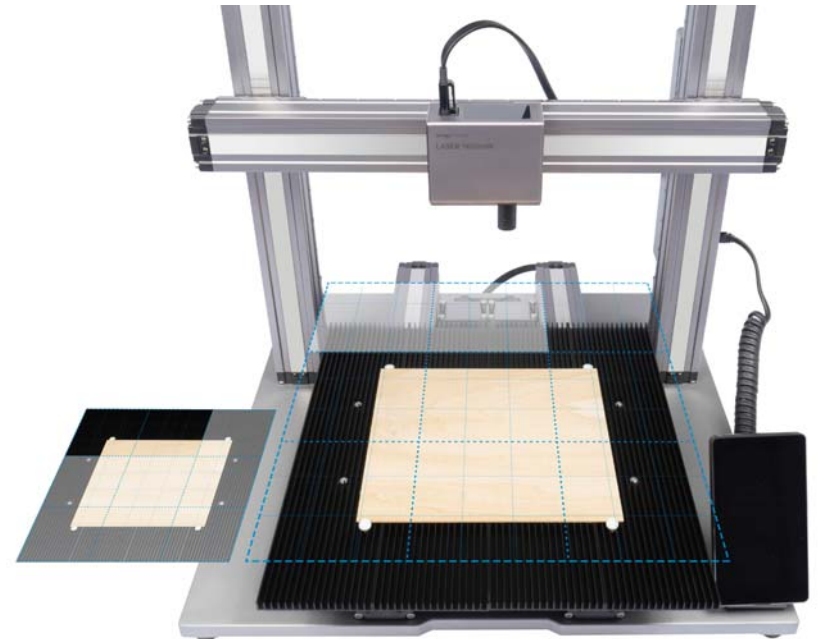


## 4.2.4 Stitch the Photos of the Platform

Article &amp; Pictures / Snapmaker

1. Open the installation package bundled on the provided USB disk and install the software Snapmakerjs, then select your machine model and connect to a Wi-Fi network.

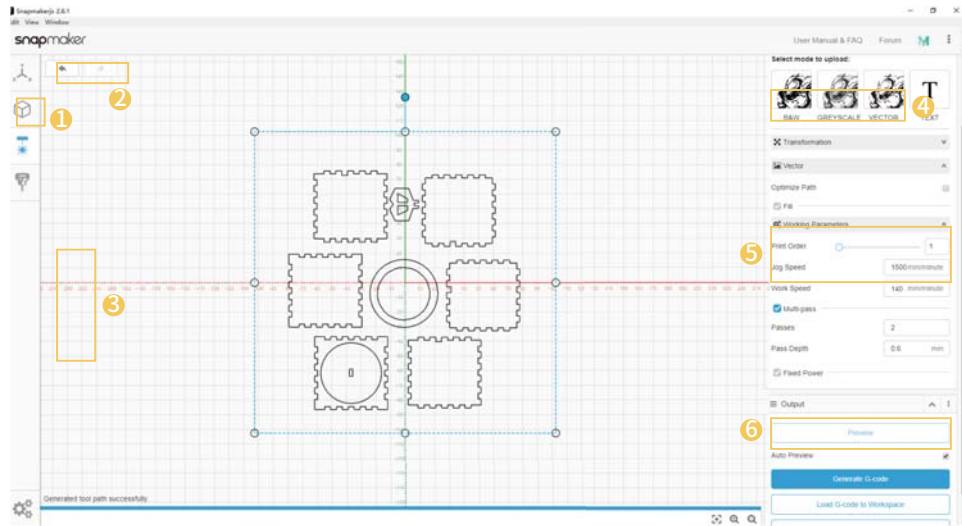
2. Click Add Background in the laser G-code generator  , then click Take Photos. Wait for the machine to take 9 photos and stitch them into a panorama of the platform, click Complete.



## 4.3.1 Prepare the G-code File

Article &amp; Pictures / Snapmaker

Complete the following operations in the laser G-code generator : Select the mode to upload the image bundled on the provided USB disk -> Drag the image to where the engraving/cutting will be -> Configure the settings -> Generate the G-code file -> Send the G-code file to the machine.



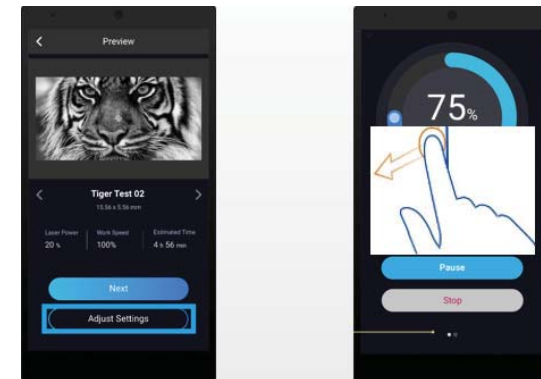
-  Files sent by Wi-Fi can be found on the screen: **Files > Local**.
-  You can also send the G-code files to the machine via the USB disk. Click **Export G-code to file** in Snapmakerjs and save it to the USB disk, then insert the USB disk into the controller and select Files > USB on the touch screen.

## 4.3.2 Start Your First Cutting

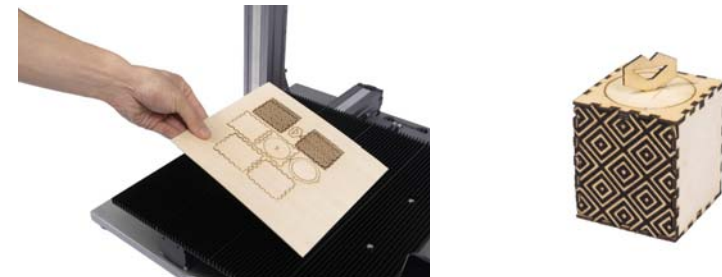
Article &amp; Pictures / Snapmaker

1. After receiving the G-code file, tap **YES** and **Start** on the touch screen to start cutting.

 If you need to adjust settings, you can either tap **Adjust Settings** prior to engraving/cutting or swipe left on the progress screen.



2. Remove the finished work and complete the assembly.



## Share!

You can share your finished work in our Facebook groups and our forum.



## CNC Carving

5.1

### Assembly and Initial Setup

5.2

### Get Started

5.3

### Start Carving



5.1.1  
Assemble the CNC Module and the  
CNC Carving Platform



5.1.2  
Initial Setup



5.2.1  
Immobilize the Material



5.2.2  
Attach the Bit



5.3.1  
Prepare the G-code File



5.3.2  
Set the Work Origin and  
Start Carving



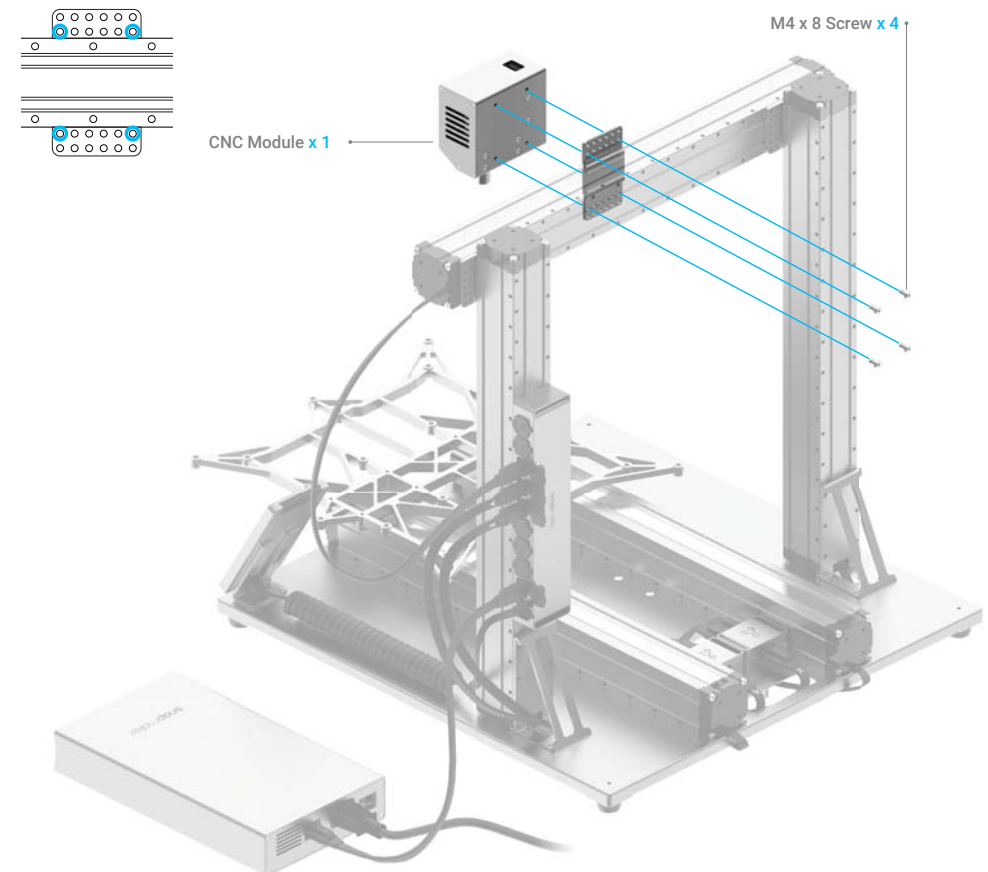
5.3.3  
Clean the Finished Work

## 5.1.1 Assemble the CNC Module and the CNC Carving Platform

Article & Pictures / Snapmaker

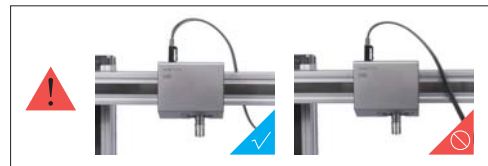
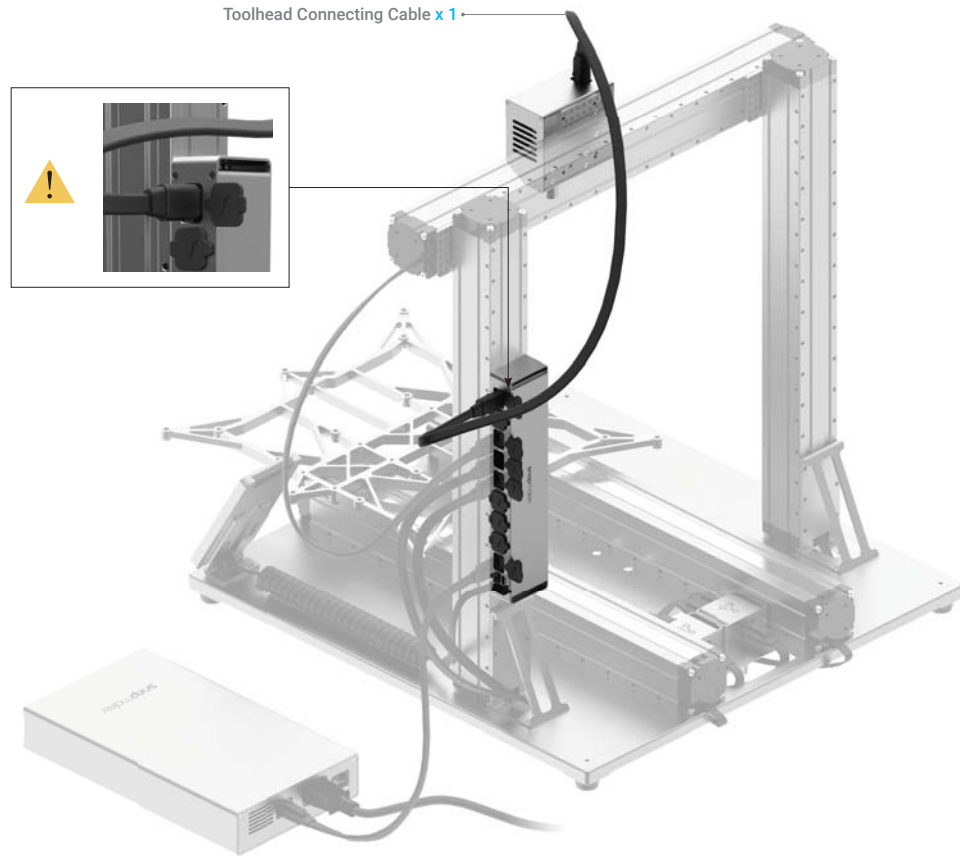
### 01/03

Attach the CNC Module to the slider of the X axis.



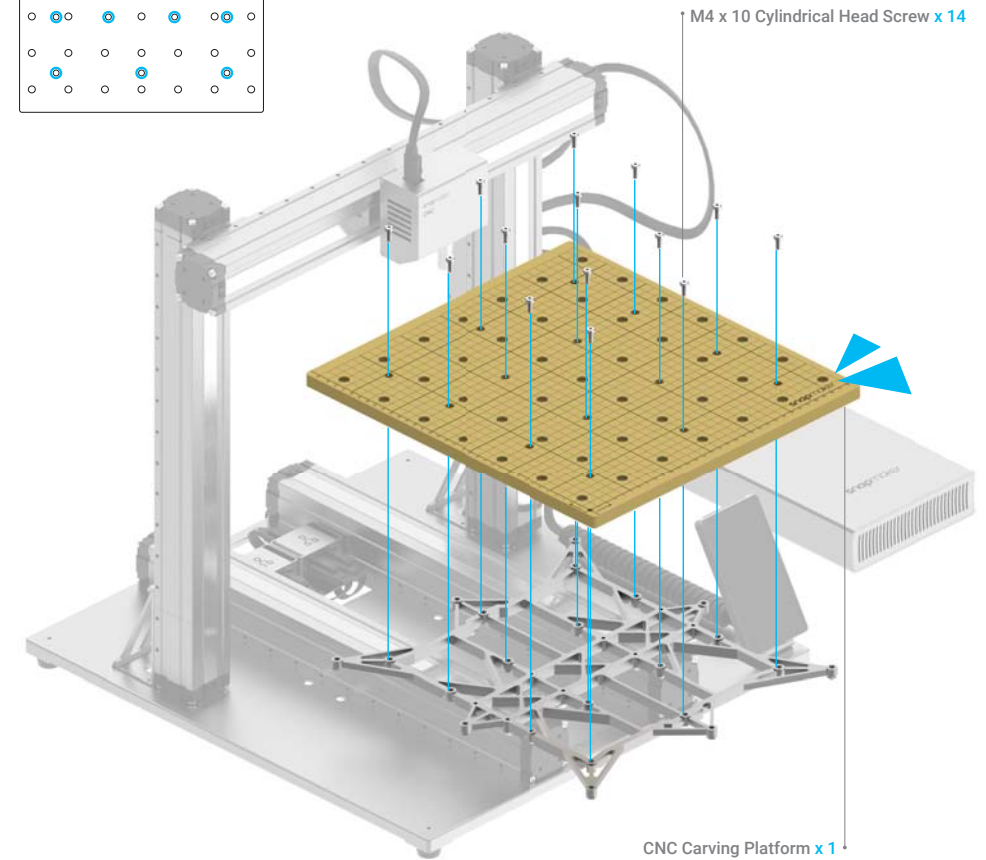
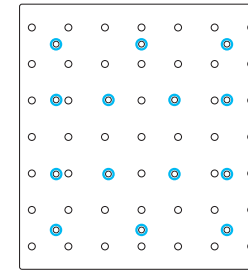
## 02/03

Connect the CNC Module to the Controller.



## 03/03

Attach the CNC Carving Platform to the Platform.



## 5.1.2 Initial Setup

Article &amp; Pictures / Snapmaker

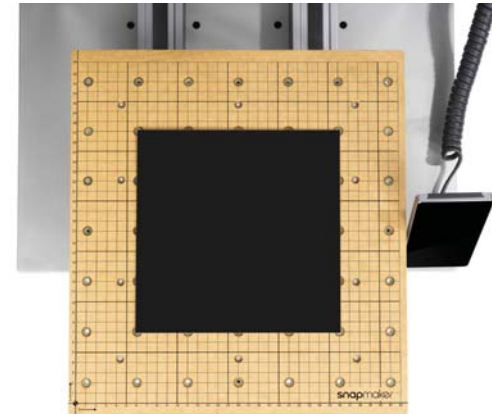
Make sure both the power cables of the Power Module have been connected. Switch the power on to complete the initial setup for your first use: Select One Language -> Read the Disclaimer -> Name the Machine -> Connect to a Wi-Fi Network.



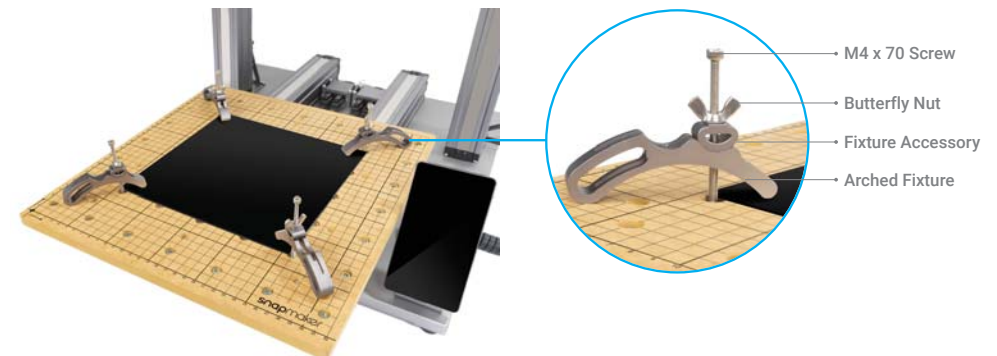
## 5.2.1 Immobilize the Material

Article &amp; Pictures / Snapmaker

1. Place the material.



2. Attach the clamp set to the CNC carving platform, then immobilize the material by screwing the butterfly nuts.

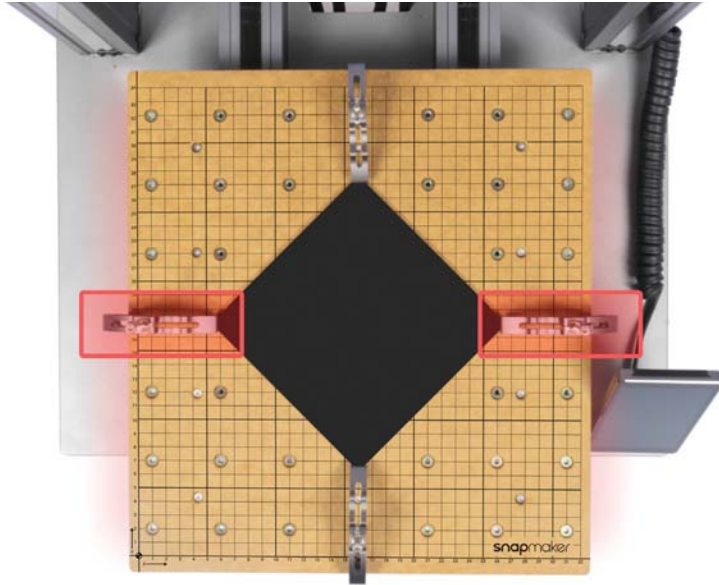




Do not screw the screws through the CNC carving platform.



Make sure the clamp set will not collide with any portions of the machine.



All the three positions as illustrated can be used to immobilize.

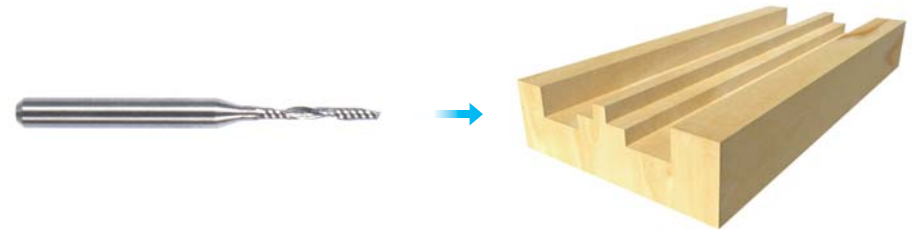


## 5.2.2 Attach the CNC Bit

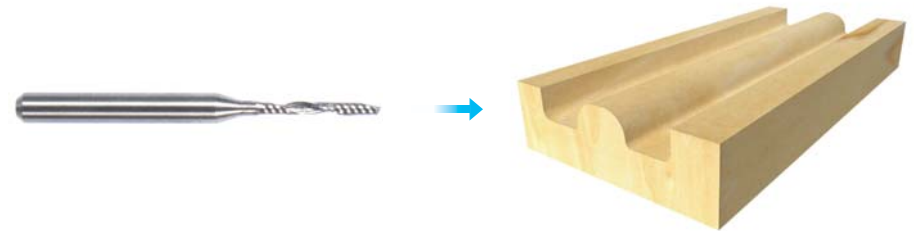
Article & Pictures / Snapmaker

### How It Works: CNC Bit Usage

Flat End Mill is typically used for slotting or cutting to flat surface.

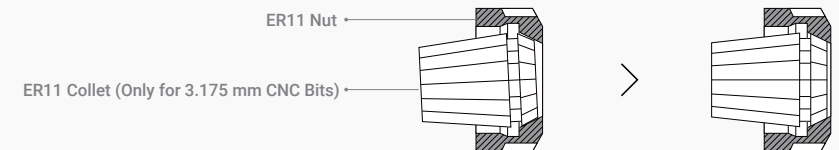


Caving V-Bit is typically used for detail carving to relief or curved surface.



### How to Attach the CNC Bit

1. Obliquely insert the ER11 collet into the ER11 nut until it clicks into place.



2. Insert the CNC bit into the ER11 collet. Make sure the end of the CNC bit is in alignment with the edge of the ER11 collet.



Handle the CNC bits carefully and keep them out of reach of children.

3. Screw the entire unit onto the shank as tight as possible, then completely tighten the ER11 nut using the open-end wrenches.



14mm Open-End Wrench

17mm Open-End Wrench



# Congratulations!

You are now ready to carve, please refer to the next chapter to generate the G-code file.

## 5.3.1 Prepare the G-code File

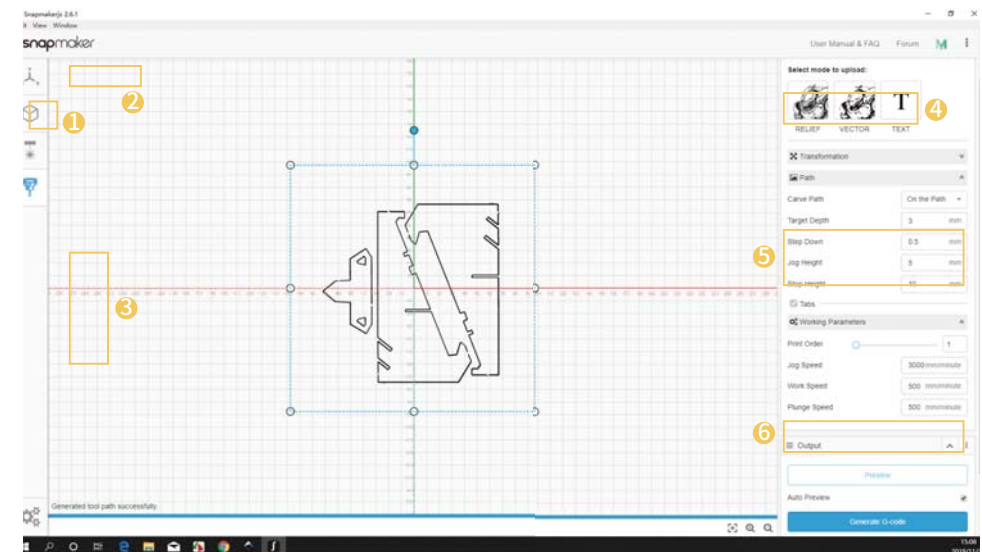
Article & Pictures / Snapmaker

1. Install the Software and Complete the Initial Setup

Open the installation package bundled on the provided USB disk and install the software Snapmakerjs, then select your machine model and connect to a Wi-Fi network.

2. Generate the G-code File and Send It to the Machine

Open Snapmakerjs and complete the following operations in the CNC G-code generator: Select the carving tool -> Select the mode to upload the model file bundled on the provided USB disk -> Configure the settings -> Generate the G-code file -> Send the G-code file to the machine.



Files sent by Wi-Fi can be found on the screen: Files > Local.



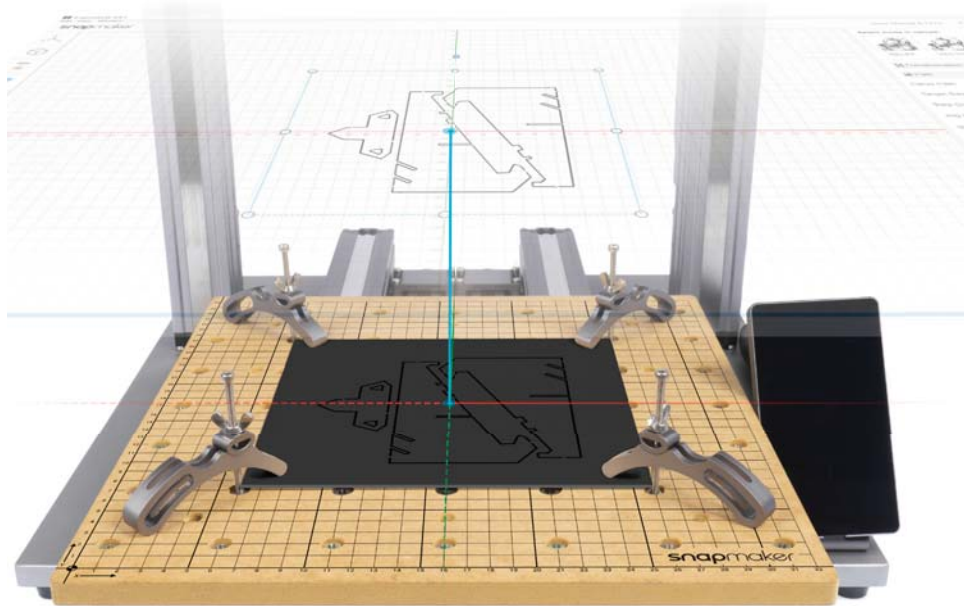
You can also send the G-code files to the machine via the USB disk. Click Export G-code to file in Snapmakerjs and save it to the USB disk, then insert the USB disk into the controller and select Files > USB on the touch screen.

## 5.3.2 Set the Work Origin and Start Carving

Article &amp; Pictures / Snapmaker

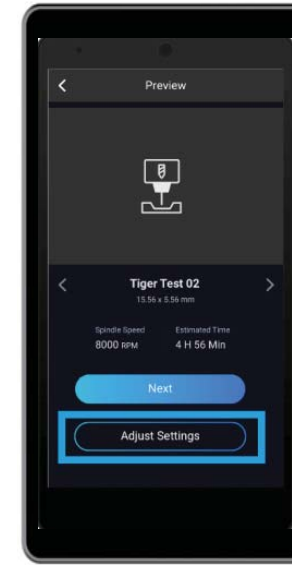
### How It Works: Work Origin and Coordinate Origin

Find out where the carving will be by setting the work origin. The work origin corresponds to the (0, 0) coordinate origin in the software.



### How to Set the Work Origin

1. After receiving the G-code file, click **YES** and **Next** on the touch screen to enter the screen of setting the work origin.



If you need to adjust settings, click **Adjust Settings** on the preview screen.

2. Tap **X-/X+/Y-/Y+/Z-/Z+** to move the CNC bit to where the work origin will be (In this case, we set the center of the image as the coordinate origin in the software). Now the CNC bit should be about 5 mm away from the material.

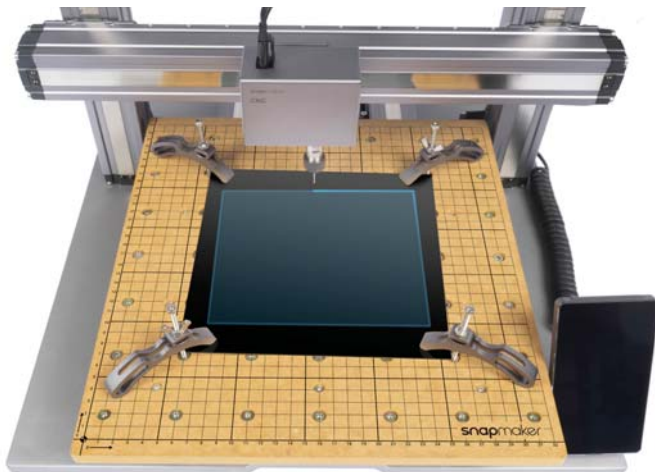


3. Place the calibration card or a piece of A4 paper between the CNC bit and the material. Keep adjusting the height of the CNC bit using **Z-/Z+** buttons until there is slight resistance when you pull out the calibration card, and it should be wrinkled when you push it forward. Tap **Set Work Origin**.



4. Tap **Run Boundary** to check if the work origin is proper. If part of the boundary runs beyond the material or the CNC bit runs into any portions of the machine, tap **X-/X+/Y-/Y+** to reset the work origin and run boundary again.

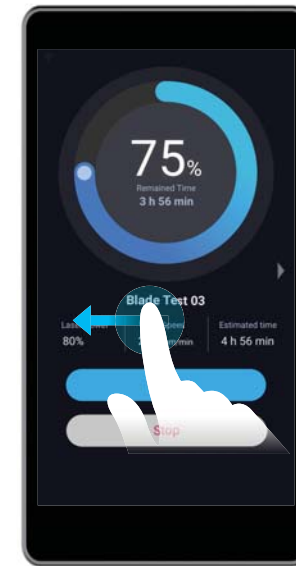
 If the CNC bit runs into any portions of the machine, power off the machine immediately and check if the CNC bit is damaged. Change the CNC bit if it is damaged.



5. Tap **Start** to start carving.



If you need to adjust settings, swipe left on the carving progress screen.



## 5.3.3 Clean the Finished Work and the Machine

Article &amp; Pictures / Snapmaker

1. Remove the clamp set from the CNC carving platform.



2. Clean the finished work and the machine using the dust collector, then remove the finished work using the Diagonal Pliers and complete the assembly.



### Share!

You can share your finished work in our Facebook groups and our forum.

## Resources Map

Besides this guide, there is also a User Manual available on our website:

[snapmaker.com/document](https://snapmaker.com/document)

Share anything you want with other Snapmaker users at our forum:

[forum.snapmaker.com](https://forum.snapmaker.com)

We are here for you whenever you need general information, technical support or have any sales inquiries.



[info@snapmaker.com](mailto:info@snapmaker.com)



[support@snapmaker.com](mailto:support@snapmaker.com)



[sales@snapmaker.com](mailto:sales@snapmaker.com)



## 5.3.3 Clean the Finished Work and the Machine

Article &amp; Pictures / Snapmaker

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## Resources Map

Besides this guide, there is also a User Manual available on our website:

[snapmaker.com/document](https://snapmaker.com/document)

Share anything you want with other Snapmaker users at our forum:

[forum.snapmaker.com](https://forum.snapmaker.com)

We are here for you whenever you need general information, technical support or have any sales inquiries.



[info@snapmaker.com](mailto:info@snapmaker.com)



[support@snapmaker.com](mailto:support@snapmaker.com)



[sales@snapmaker.com](mailto:sales@snapmaker.com)



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user’s authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

For Control Screen:

The SAR limit adopted by USA and Canada is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The highest SAR value reported to the Federal Communications Commission (FCC) and the Industry Canada (IC) for this device type when it is properly worn on the body is 0.53W/kg. The device complies with the RF specifications when the device is used near at a distance of 5 mm from your body. Ensure that the device accessories such as a device case and a device holster are not composed of metal components. Keep your device 0 mm away from your body to meet the requirement earlier mentioned.

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0 mm must be maintained between the user’s body and the handset, including the antenna. Thirdparty belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

For Laser Head:

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.



This product can be used across EU member states.  
Manufacturer: Shenzhen Snapmaker Technologies Co., Ltd.

Specifications

Hardware Version: SM2\_5inch\_V1.0  
Software Version: SM2\_TP\_V1.0

Adapter shall be installed near the equipment and shall be easily accessible.

The plug considered as disconnect device of adapter:

(Manufacturer of power Module: Shenzhen Snapmaker Technologies Co., Ltd. )

Parameters of power adapter: Input: 100-240V~, 50/60Hz, 4A; Output: 24Vd.c., 13.4A, 320W

Extreme temperature: 5-55 C

RED2014/53/EU

Declaration of Conformity

Hereby, Shenzhen Snapmaker Technologies Co., Ltd. declares that this Snapmaker Modular 3D Printer product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the Declaration of conformity can be found at <https://www.snapmaker.com/>.

Bluetooth Frequency range:

2402-2480MHz, Maximum E.I.R.P:7.16dBm(control Screen)

2402-2480MHz, Maximum E.I.R.P:4.74dBm(Laser Head)

2.4GWi-Fi Frequency range: 2412-2472MHz, Maximum E.I.R.P: 17.70dBm

5.2G Wi-Fi Frequency range: 5150-5250MHz, Maximum E.I.R.P: 17.20dBm

5.8G SRD Frequency range: 5745-5825MHz, Maximum E.I.R.P: 13.44dBm

The device complies with RF specifications when the device used at 20cm form your body.  
The device complies with RF specifications when the device used at 0 mm your body.

When the device support wlan 5G(5150-5250Mhz), Manufacture will list the following statement and countrylist(not EU country) on the user manual, and wlan 5G only used to indoor

|  |    |    |    |    |    |    |    |
|--|----|----|----|----|----|----|----|
|  | AT | BE | BG | HR | CY | CZ | DK |
|  | EE | FI | FR | DE | EL | HU | IE |
|  | IT | LV | LT | LU | MT | NL | PL |
|  | PT | RO | SK | SI | ES | SE | UK |

