



# 1

## **Preparation for Use**

type A530

# 1. Specifications

## 1. Printing

<b>Printing Method</b>	Fused Filament Fabrication (FFF)
<b>Max. Print Length (mm)</b>	W (max): 320, D (max): 320, H (max): 313
<b>Print Layer Thickness Setting</b>	0.05–0.4 mm
<b>Default (Optional) Nozzle Diameter</b>	0.4 mm
<b>Filament Diameter</b>	1.75 mm
<b>Printable Material</b>	ABS, ASA, ARS, PLA
<b>Bed Leveling</b>	Auto adjustment + Manual leveling
<b>Print Head</b>	2-nozzle

## 1.2 Temperature/Speed

<b>Max. Nozzle Temperature</b>	290 °C
<b>Max. Bed Temperature</b>	110 °C
<b>Max. Printing Temperature</b>	200 mm/s

\* Continuous operation at max. temperature may cause malfunctions. Please, set in a special case such as nozzle clogging and other troubles.

## 1.3 Main Body

<b>Power</b>	Max. 1050W
<b>Dimension (mm)</b>	747 x 810 x 784 (W x D x H)
<b>Weight</b>	97kg
<b>Port</b>	USB devices, USB hosts, Wi-Fi, Ethernet
<b>Filament</b>	Auto load/Unload

## 1.4 Software/Support

<b>Software</b>	Weaver3 Studio
<b>File Format</b>	*.stl, *.ply, *.obj, *.gcode, *.amf
<b>Operating System</b>	Window 7 or higher, Mac OSX 10.10 or higher
<b>Recommended Memory Requirements</b>	DRAM 8 GB+ / VRAM 2 GB+



- GPU should support OpenGL 2.0 or higher.

## 1.5 Default of Print Layer Width

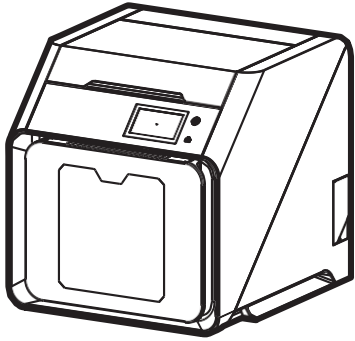
<b>Nozzle Diameter</b>	0.4 mm
<b>Print Layer Width</b>	0.25 mm

## 2. Basic Components

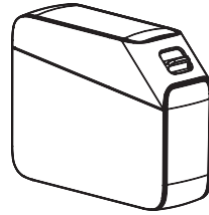
Check the basic components in the package.

**Caution**

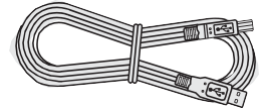
- Keep the package and packing material properly because they are needed for product exchange or repair service.



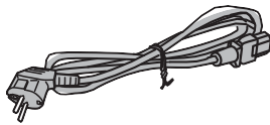
Printer



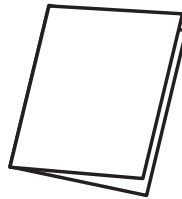
Filament Box  
(2x)



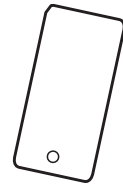
USB Cable



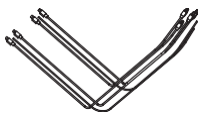
Power Cord



Installation Guide



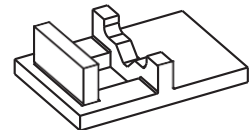
Z-Offset Adjustment  
Sheet (2x)



Cable and Tube for  
Connecting Filament Box  
(2x)



Encoder Cleaner



Nozzle Cleaner Pad (2x for  
Replacement)



Scraper



Nozzle Cleaner  
Spring



USB Flash  
Drive

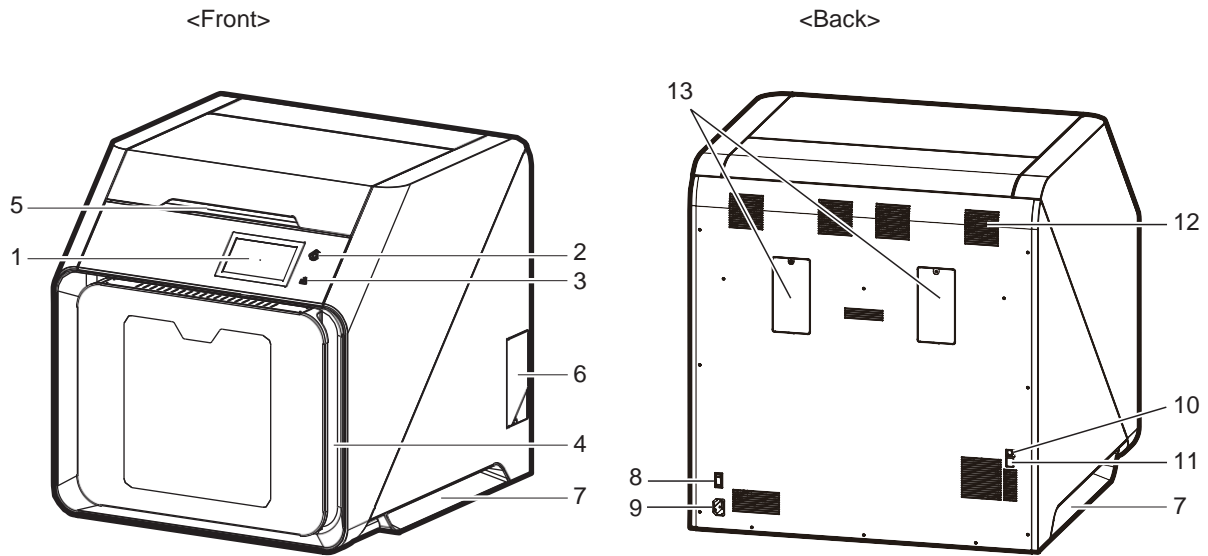




Cleaner Tube  
(2x)

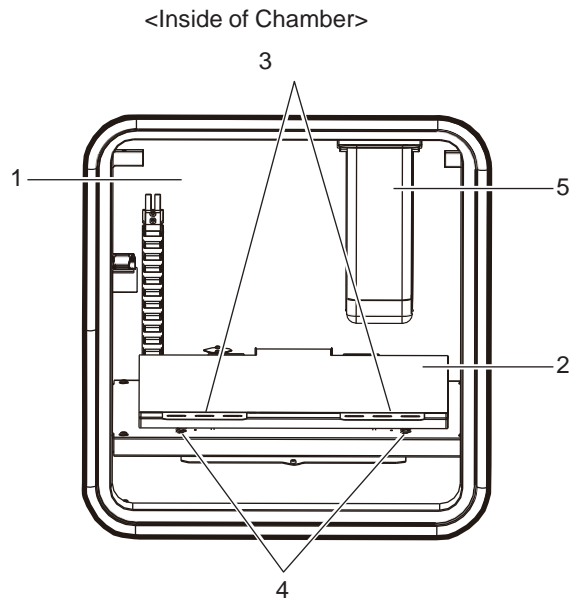
**Warning**

- The scraper blade is very sharp. Please, be careful when using the scraper. Do NOT use for any other purpose than removing outputs. In particular, do NOT touch the scraper blade.

### 3. Component Name

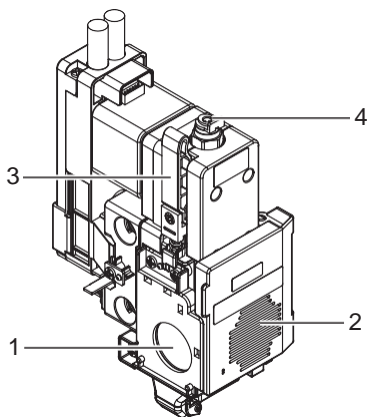


No.	Name	Description							
1	LCD Control Panel	Screen used to operate the printer. <b>Caution</b> - It is recommended to remove the protective film on the LCD control panel before using this panel.							
2	 Power Button	Press the button to turn on the power. Press and hold the button (for 2 seconds or longer) to turn off the power.							
		Power Button Indicator	<table border="1"> <tr> <td>Lamp On</td> <td>The power is On.</td> </tr> <tr> <td>Flickering (at a interval of 1 s)</td> <td>The power can be turned on instantly. (Only if power cord is connected.) <b>Caution</b> - When the printer is not used for a long time, disconnect the power cord. - The lamp may flicker for a few seconds after the power cord is disconnected.</td> </tr> <tr> <td>Lamp Off</td> <td>Inactive mode (Power cord is disconnected.)</td> </tr> </table>	Lamp On	The power is On.	Flickering (at a interval of 1 s)	The power can be turned on instantly. (Only if power cord is connected.) <b>Caution</b> - When the printer is not used for a long time, disconnect the power cord. - The lamp may flicker for a few seconds after the power cord is disconnected.	Lamp Off	Inactive mode (Power cord is disconnected.)
		Lamp On	The power is On.						
Flickering (at a interval of 1 s)	The power can be turned on instantly. (Only if power cord is connected.) <b>Caution</b> - When the printer is not used for a long time, disconnect the power cord. - The lamp may flicker for a few seconds after the power cord is disconnected.								
Lamp Off	Inactive mode (Power cord is disconnected.)								
3	 USB Port	To connect a USB flash drive that contains a file to print it.							
4	Front Door Handle	To open the front door							
5	Top Door Handle	To open the top door							
6	Filament Box Connection	Open the cover to connect the main body to the filament.							
7	Carrying Handle	To hold and carry the printer							
8	Main Power Switch	Press " " (ON) or "○" (OFF) to turn on or off the power.							
9	Power Port	To connect the power cord.							
10	USB Cable Port	To connect the printer to a computer through a USB cable.							
11	LAN Port	To connect to a network device through a network cable.							
12	Vent Fan (with HEPA Filter)	To discharge the heat inside the printer. To remove fine particles generated during printing.							
13	Junction Cover	Remove the cover to resolve problems of carrying filaments.							

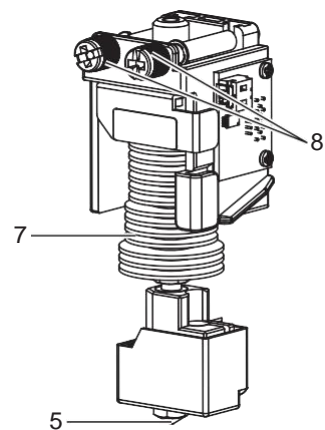


No.	Name	Description
1	Chamber	A space inside the printer where an output is printed. It heats the inside to help an output to be printed stably.
2	Flexible Bed	A space where an output is placed.
3	Removable Bed Handle	A handle used to assemble/disassemble the flexible bed
4	Bed Height Adjustment Knob	An auxiliary device to additionally adjust the height of the bed again
5	Cleaning Case	A place where the ejected filament is accumulated during nozzle cleaning. The nozzle needs to be cleaned regularly.

<Nozzle>



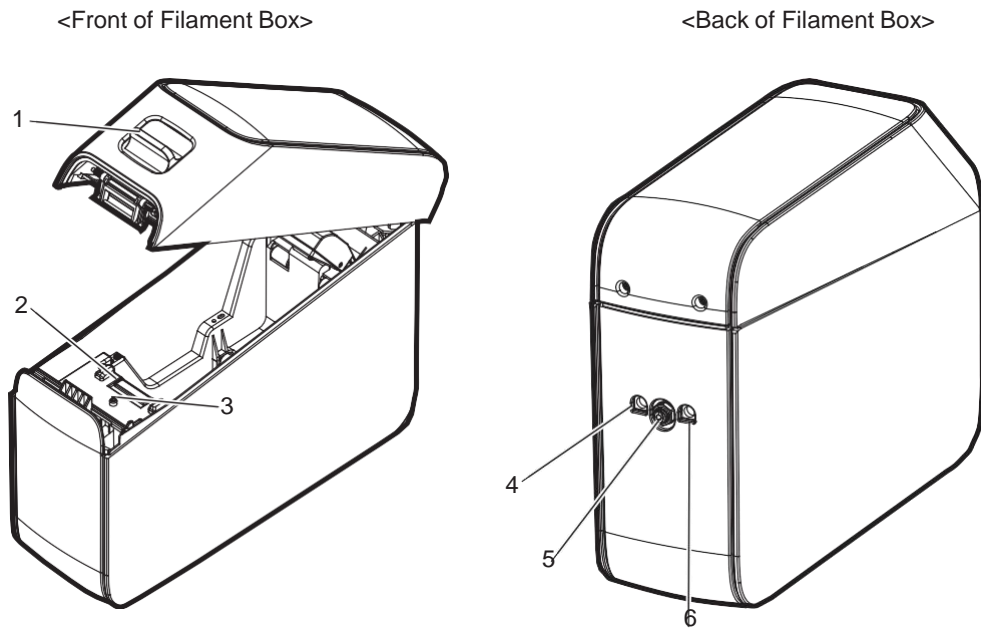
<Nozzle Core>



No.	Name	Description
1	Fan 1	Cooling fan for output
2	Fan 2	Cooling fan for nozzle heat sink
3	Filament Pressure Lever	A pressure lever to carry filaments
4	Nozzle Fitting	Insert a tube where a filament is supplied and fix it.

## 1 Preparation for Use

No.	Name	Description
5	Nozzle	A device to eject filaments.
6	Sensor	Measure the height of nozzle
7	Nozzle Core	Replacement unit for the nozzle part to replace the nozzle for maintenance or that can be replaced depending on the material used
8	Nozzle Fixing Screws	Screws fixing the nozzle core when the nozzle is replaced



No.	Name	Description
1	Cover Opening/Closing Lever	Used to open/close the box cover.
2	Spool Lock Lever	Used to lock and fix the spool when it is installed. Pull the lever to unlock the lever.
3	Filament Insertion	To load a filament, insert it in this location.
4	Motor Cable Port	To connect the motor cable to the main body.
5	Filament Fitting Port	To connect a tube in which a filament is inserted to the main body.
6	Sensor Cable Port	To connect the sensor cable to the main body.

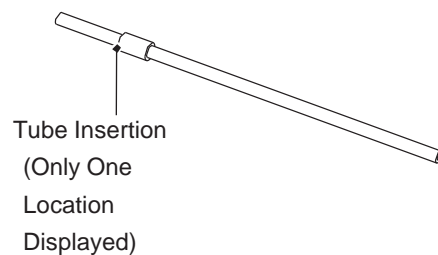
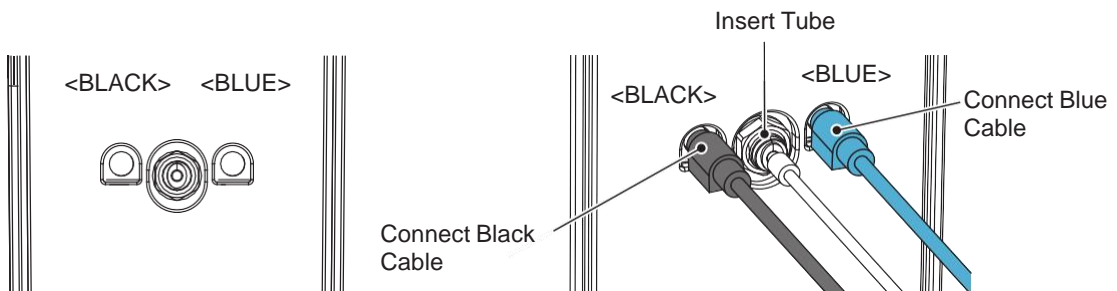
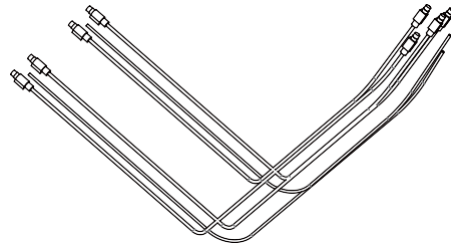
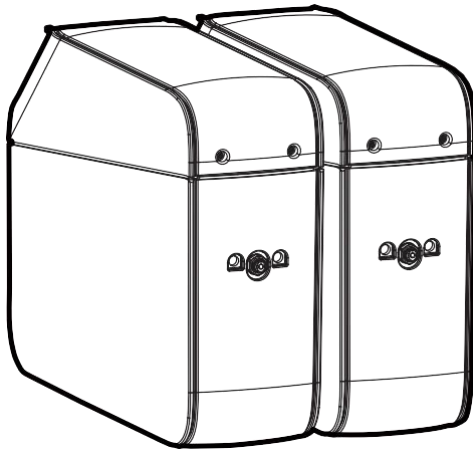
## 4. Installation (Power Supply, Filament Box Installation and Slicer Program Installation)

### 1. Power Supply

Connect the power cable before using this product, see "4.3 Power Switch" on Page 7.

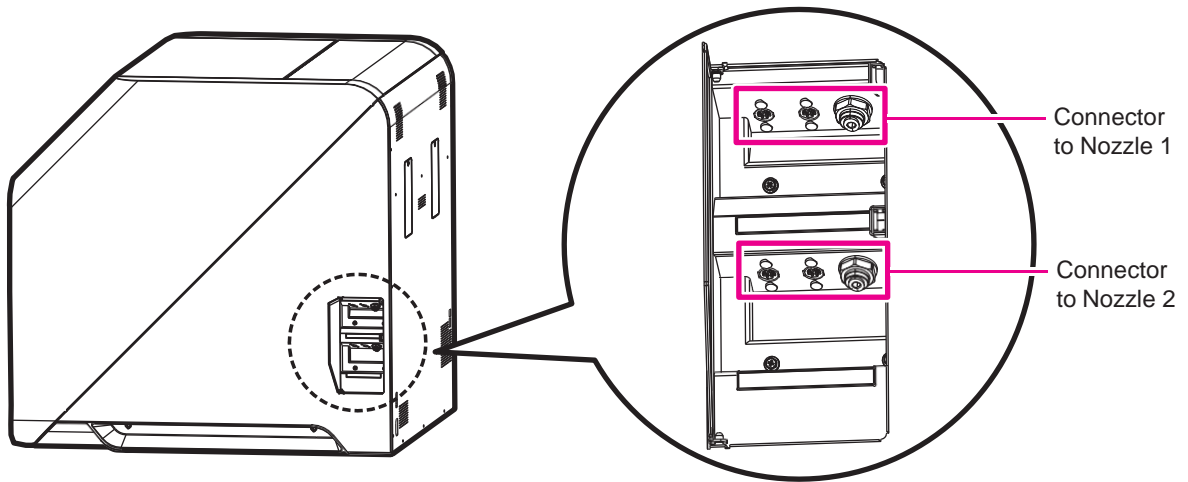
### 2. Filament Box Installation

**1** Prepare the filament box, tube, and cable.

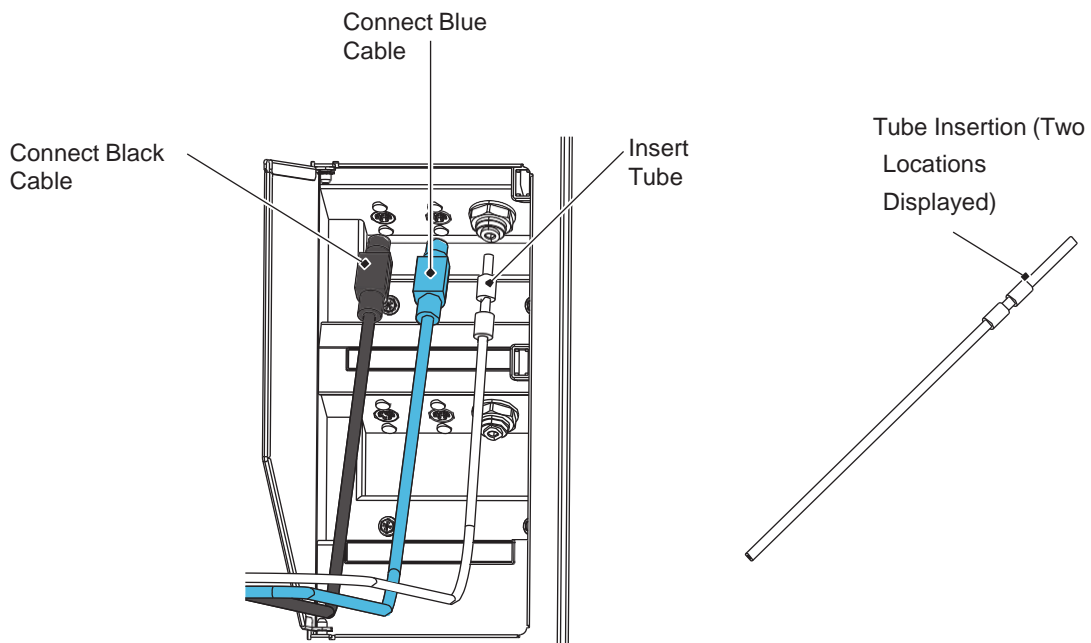


## 1 Preparation for Use

- 3 Open the cover on the right of this product. Then, you can see the filament box connector. The top connector is connected to the nozzle 1 and the bottom one is to the nozzle 2.



- 4 Connect the cables according to color codes of the filament box connectors. Insert the tube up to the marked position on the end of the tube as follows:




### ⚠ Caution

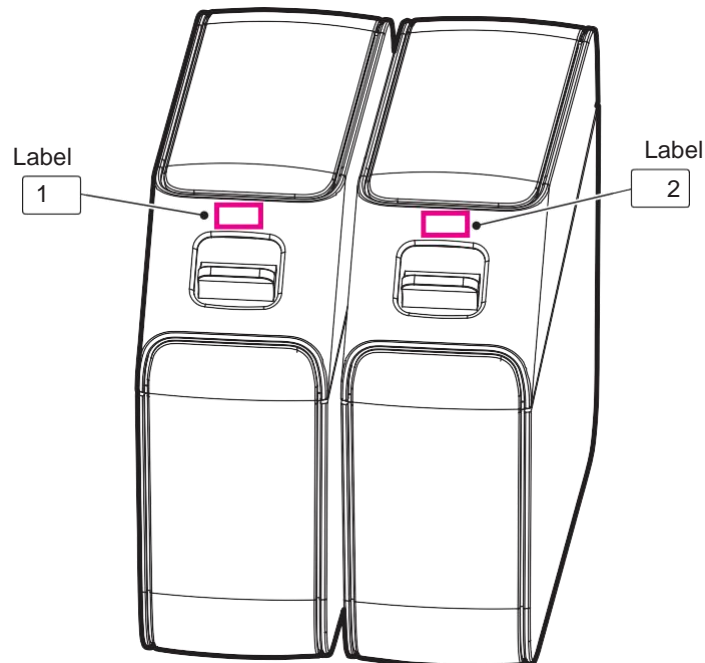
- The cable and tube from one filament box should be connected to either the top or the bottom. Do Not connect them to the top and the bottom.
- If the cable and tube from one filament box are connected to the top and the bottom, the product will malfunction.



- 5** Attach the filament box labels on the front as follows. Attach Label "1" to the filament box that is connected to the top in , and attach Label '2' to the filament box that is connected to the bottom.

 **Important**

- As materials loaded to the nozzle 1 and nozzle 2 differ, correctly attach the labels by checking the locations connected to the main body.



- 6** Turn the power supply on and install a spool on the filament box.

 **Reference**

- For the information on how to install a spool, see "4.3 Filament Replacement" on Page 5–12 (5).

## 4.3 Program Installation

Download the Weaver3 Studio installation program from the USB flash drive or our website, and execute it.

 **Note**

- For the information on how to install and use the program, visit our website.

