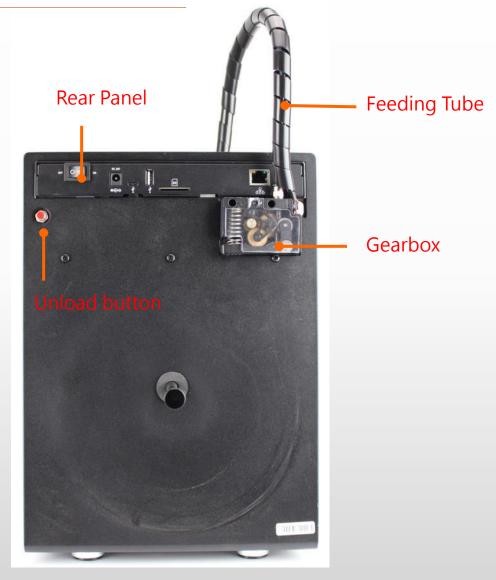


ENJOY Introduction





Rear view



Software Installation

Install print S/W

Driver Install

S/W-Print software install (1/6)

Download 86DuinoRepetierHost file from following to your computer:

http://www.86duino.com/86Duino-Enjoy/setup86DuinoRepetierHost 1 5 6.exe

Double click the setup file icon .



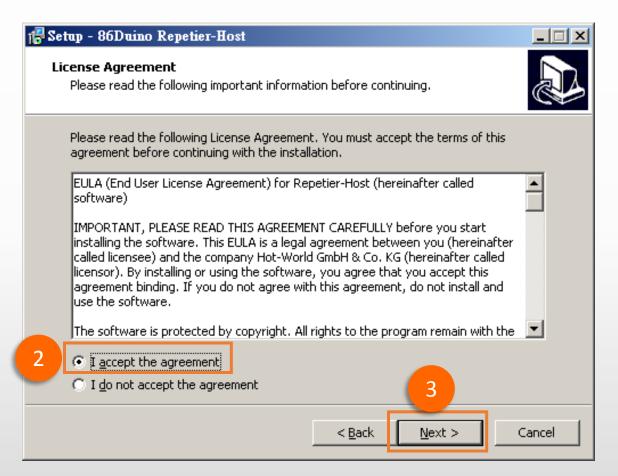


Select the language you prefer and click "OK"

S/W-Print software install (2/6)



Click "Next" on Setup Wizard:

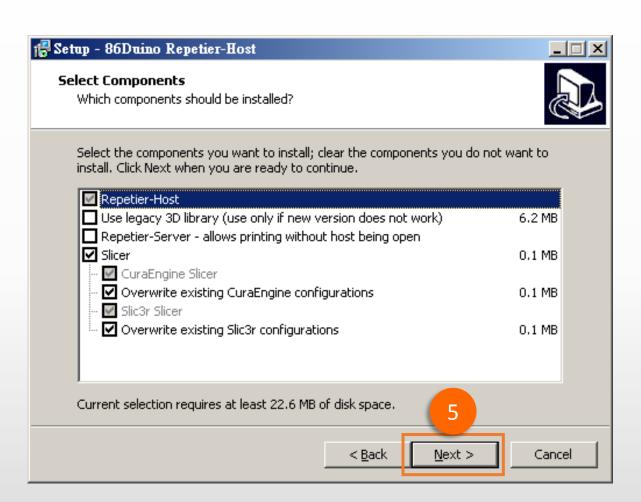


Read the License Agreement and if in agreement, Select "I accept the agreement" and then click "Next".

S/W-Print software install (3/6)

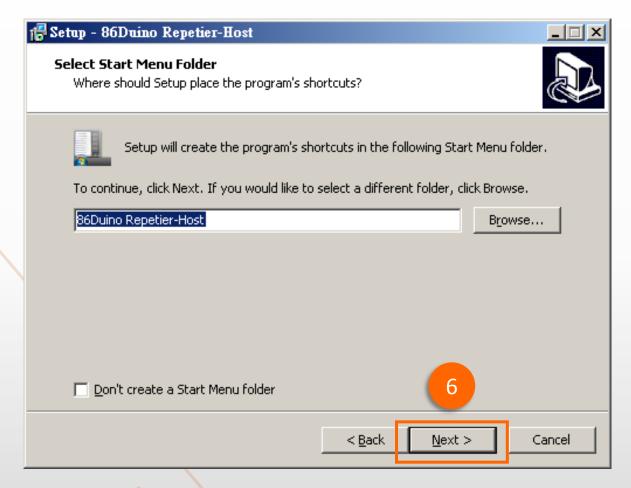


Click "Next" if you like to put it under "Program Files" or you can choose your preferred location by clicking "Browse..."

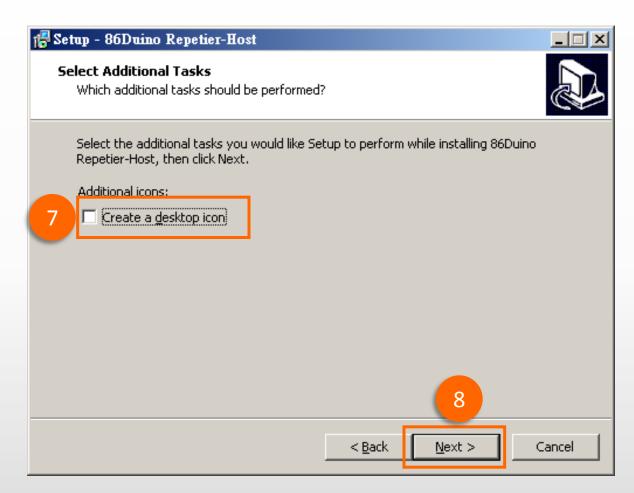


then click "Next" (default setting)

S/W-Print software install (4/6)

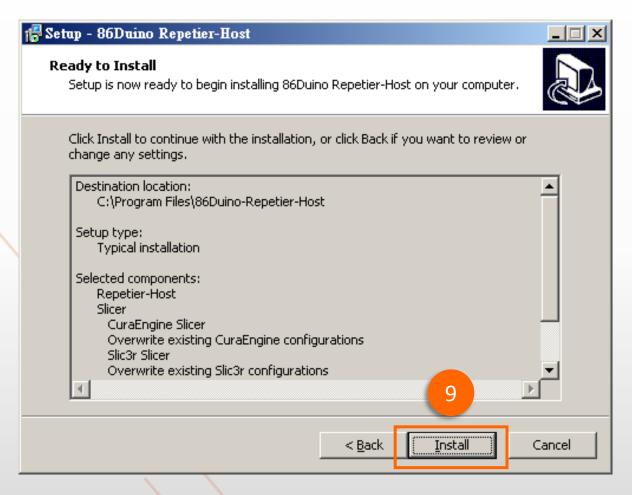


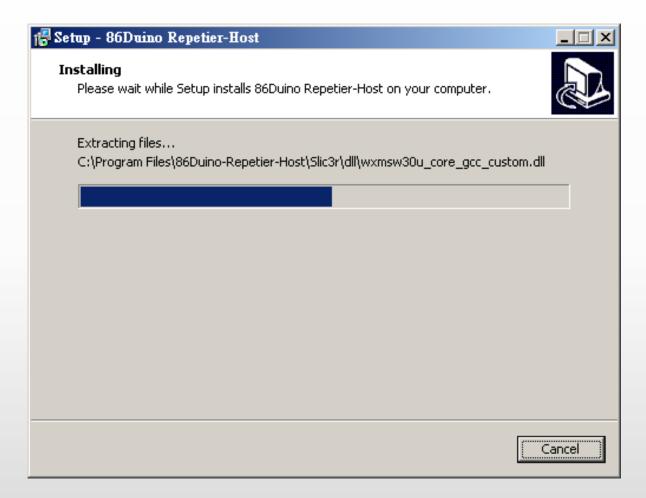
Click "Next" if you like to put the shortcut in "86Duino Repetier-Host" folder or you can click "Browse..." to choose a different folder.



If you would like to create a desktop icon, check off, "Create a desktop icon" and then click "Next".

S/W-Print software install (5/6)





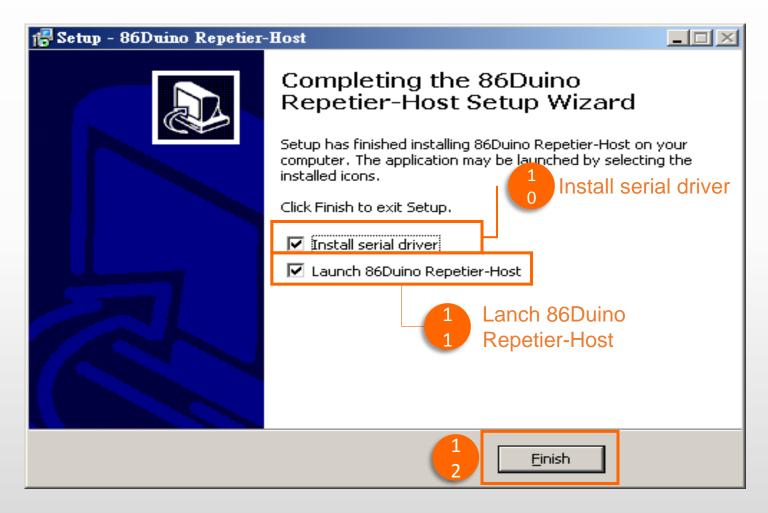
Click "Install" to start the installation.

Software Installation

S/W-Print software install (6/6)

- After installation is complete, you can choose whether to continue to install the driver.
- If the previous driver has been installed, you can skip the "Driver Installation" teaching content.
- If you do not execute software now and then, can be performed by clicking "RepetierHost.exe" file.







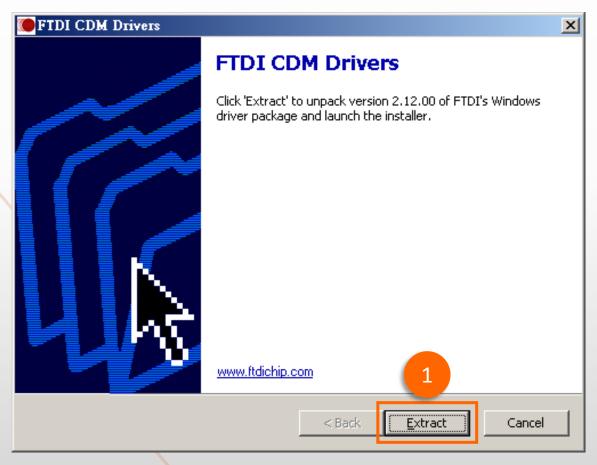
Software Installation

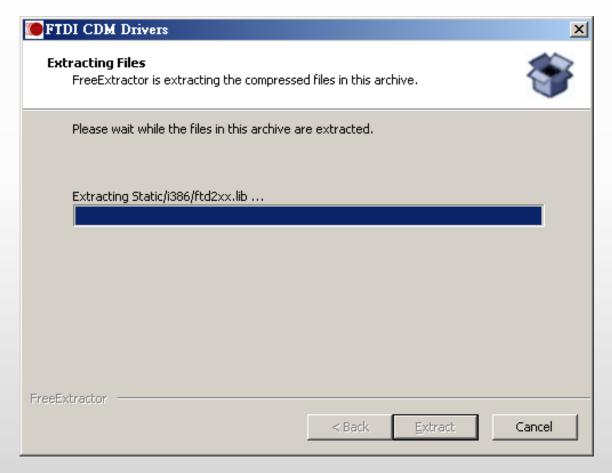
Install print S/W

Driver Install

S/W-Driver install (1/3)

If you choose to print software installation to continue after the completion of driver installation, the following installation screen will appear, please follow the instructions to complete the installation:

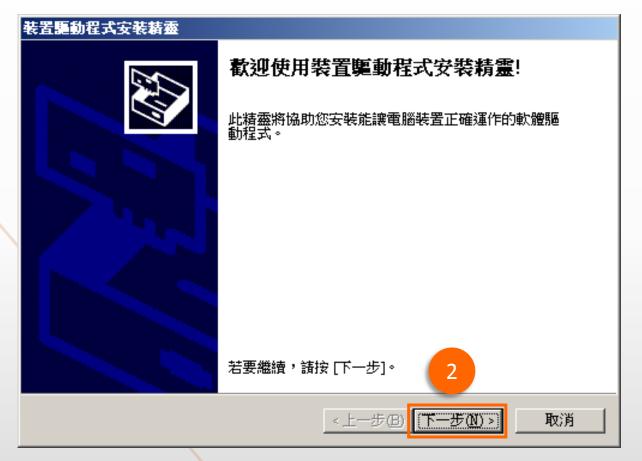




Driver extract confirmation screen

Driver extracting screen

S/W-Driver install (2/3)





Click "Next" for Setup Wizard:

Read the License Agreement and if in agreement, Select "I accept the agreement" and then click "Next".

S/W-Driver install (2/3)





Install screen

Installation completion screen





Hardware Assembly

Hardware Intro Cable installation | Power and Trans cable install

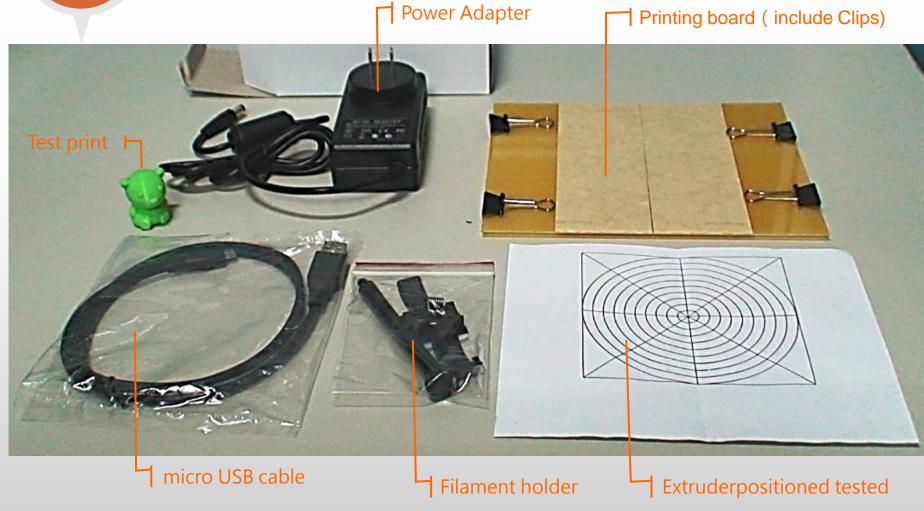
Hardware Intro / Description







ENJOY includes the following items at the box:







Hardware Assembly

Hardware Intro

Cable Installation

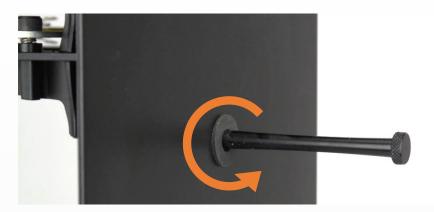
Power and Trans cable install

Cable Installation (1/5)

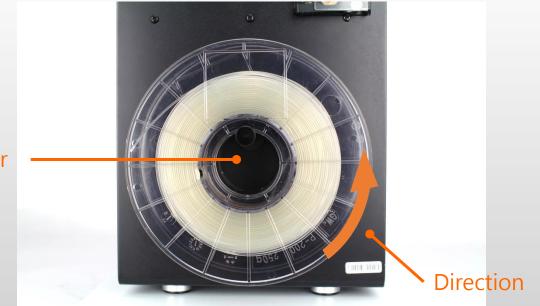
Mounted filament holder on the rear of the printer:



1. Counterclockwise direction of the mounting holder



2. Place the Filament hanging on the holder (note direction)



Holder

Cable Installation (2/5)

Prior to each use, remove the harden/used end of the filament by cutting off 2 inch from the end to be loaded into the extruder.

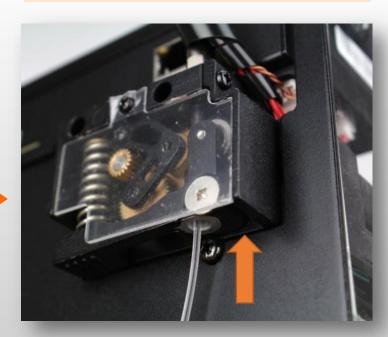




3. Cutting

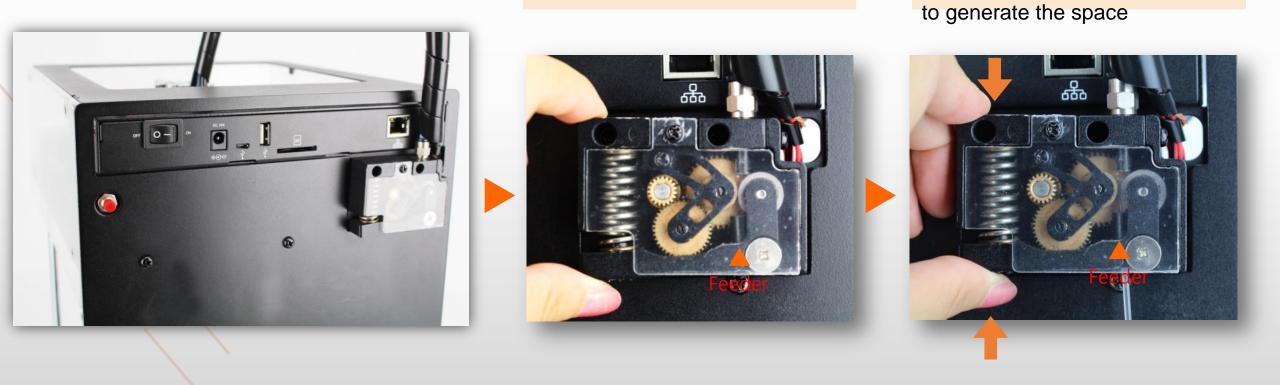


4. feed the filament into the Feeder



Cable Installation (3/5)

Push up on the spring to the left while feeding the filament up into the tube.



5. Push up on the spring

6. gears will be moved to the right,

Cable Installation (4/5)

Continue to feed the filament up into the extruder until you feel there is NO room for more filament.

7. Feed the filament up into the feeder



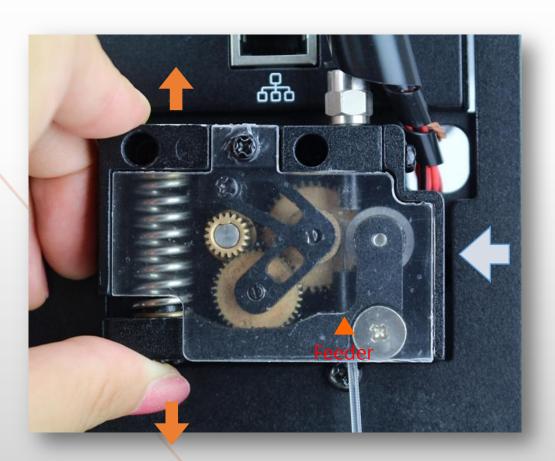
8. until you feel there is NO room for more filament.



Cable Installation (5/5)

When you feel there is NO room for more filament. Release the spring. The filament is now loaded.

9. Release the spring



10. The filament is now loaded







Hardware Assembly

Hardware Intro | Cable Installation

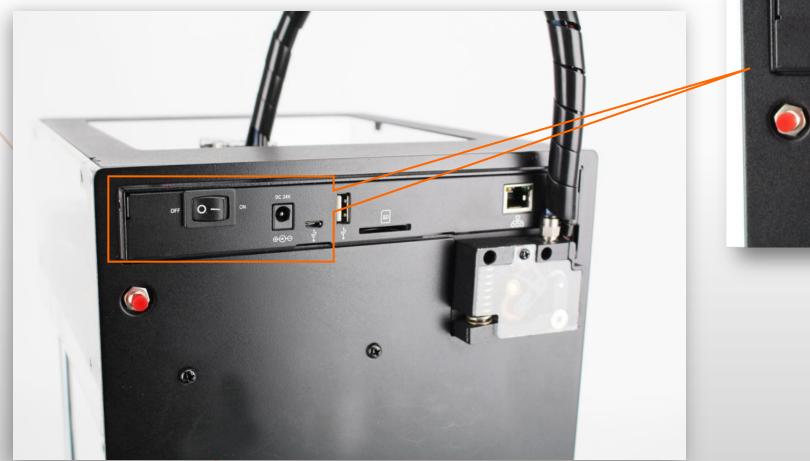
Power and Trans cable install

Connect Enjoy Printer (1/2)

With the Power switch in the OFF position, connect the provided power supply to an AC (100-240V) source and

the USB cable to a computer.

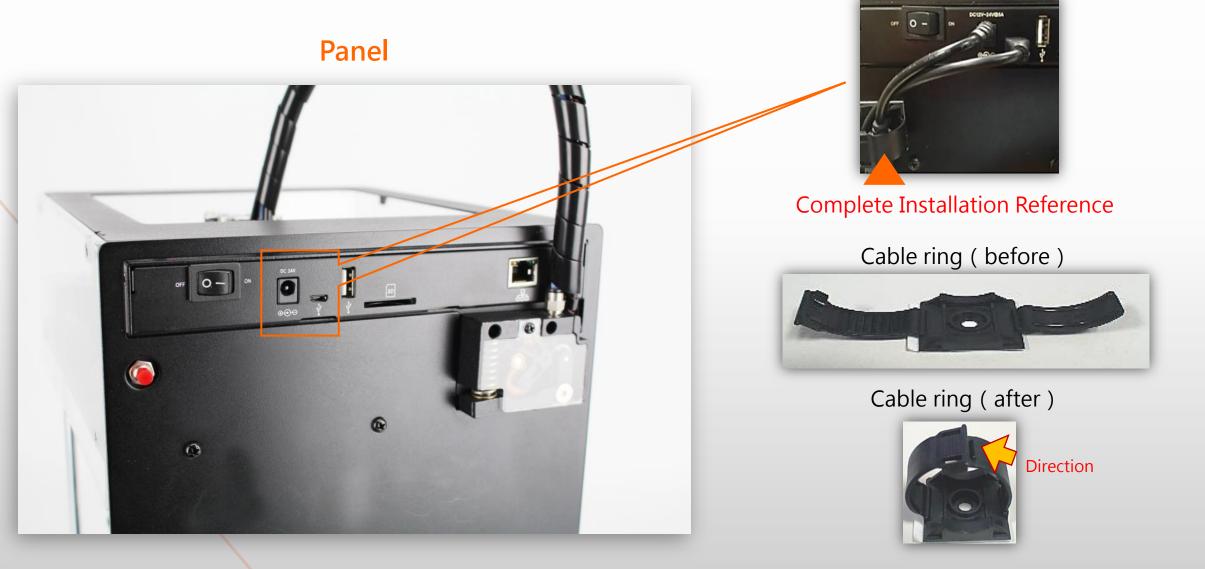






Connect Enjoy Printer (2/2)

If you are worried of cables may affect the filament rotates, the entire line can be used to secure the wire loop:

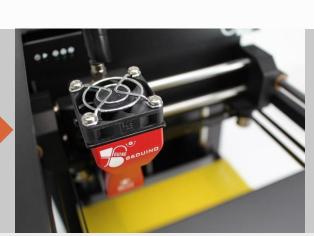


Calibration Settings

Setup and connection

Extruder Calibration | Print bed Calebration





Software setup and connection (1/7)

Power on, then all LED on the panel lights blink once after leaving Red lighted.

1. Power adapter

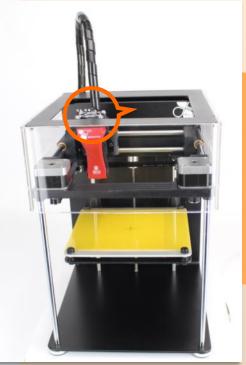
2. Switch power on







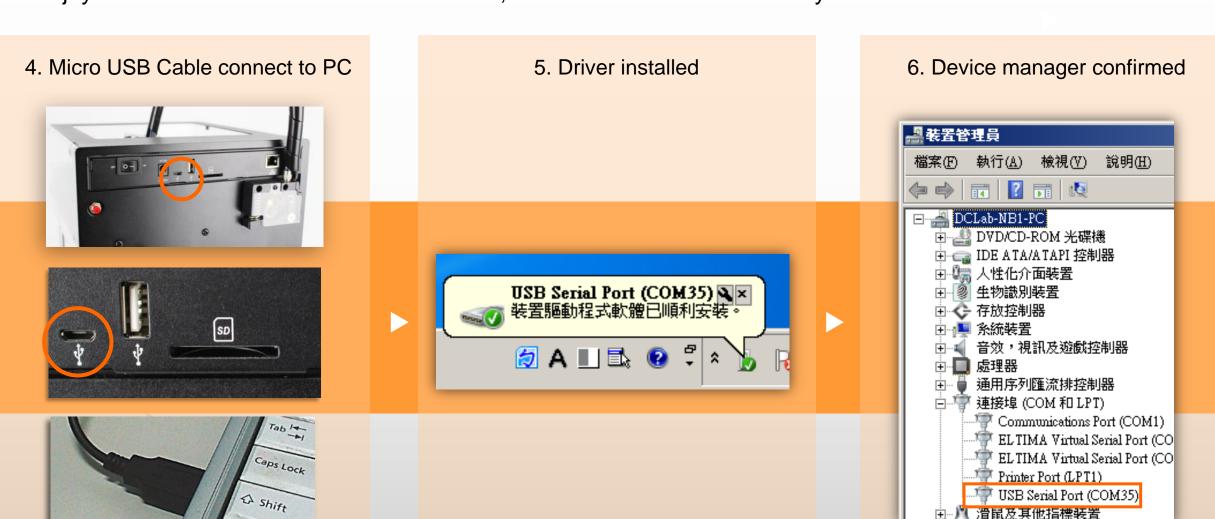
3. all LED on the panel lights blink once after leaving Red lighted.





Software setup and connection (2/7)

Enjoy Printer via micro USB cable to the PC, then the PC will automatically install the driver.

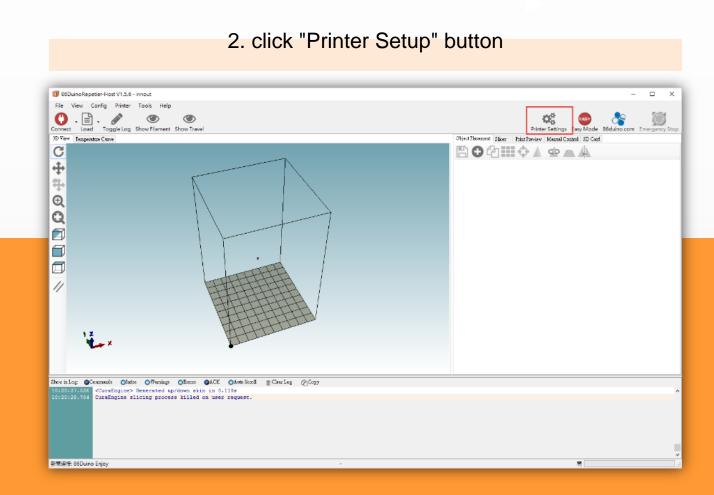


Software setup and connection (3/7)

Run 86Duino-Repetier-Host (RH) program, and check printer status:

1. Start screen

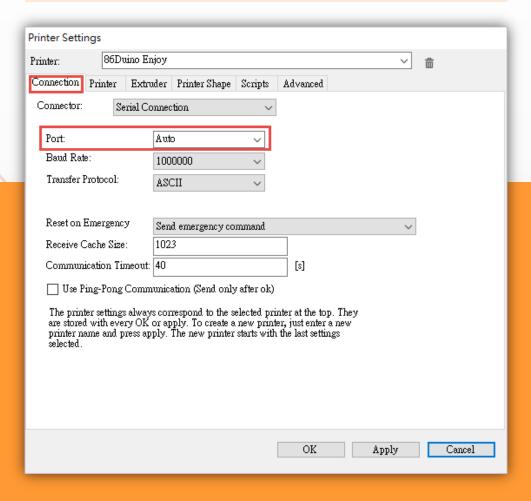




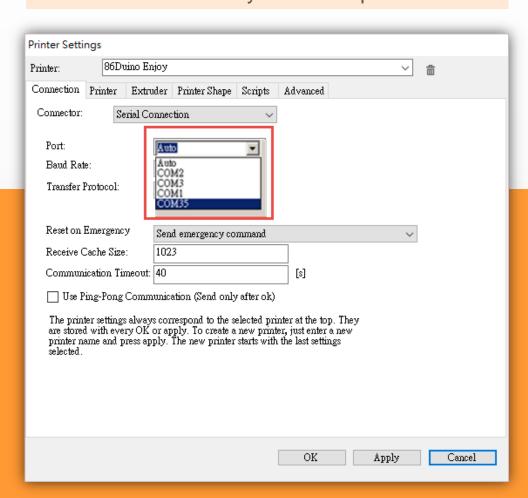
Software setup and connection (4/7)

Printer Setup-If cannot connect the Enjoy printer to PC(default Auto does not work)

3. Select "Connection" tab and click "Port" tab



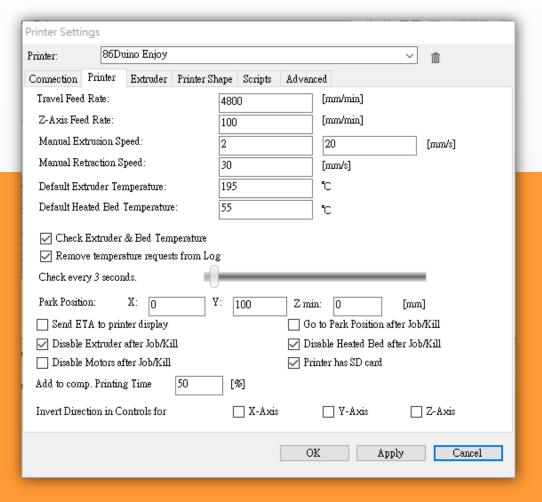
4. Manually select the port



Software setup and Connection (5/7)

Printer Setup - Printer and setting (default)

5. Select "Printer" tab, the default setting as shown



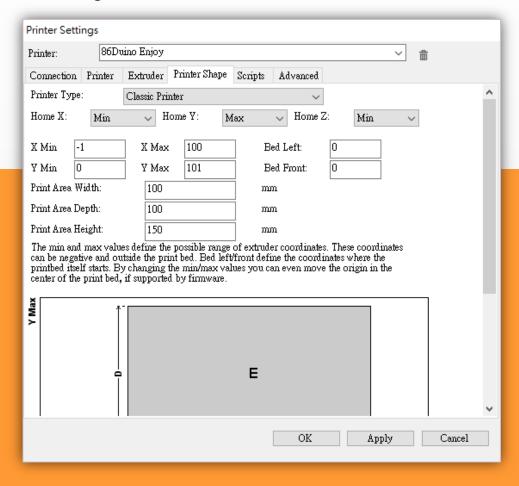
6. Select "Extruder" tab, the default setting as shown

Printer Settings									
Printer:	iino Enjoy		~				ī		
Connection	Printer	Extruder	Printer Shape	r Shape Scripts Advanced					
Number o Max. Ext Max. Bed Max. Vol Printe	ruder Tem l Tempera ume per s	nperature: ture: econd	1 275 150 12 ler (one nozzle	for all cold	[mm³/s]				
Extruder 1 Name: Diameter: Color:		Duino Enjo] [mm] Temperature Offset:				[°C]	
Offset X:	0			Offset Y:				[mm]	
			·						
					OK	Appl	у [Cancel	

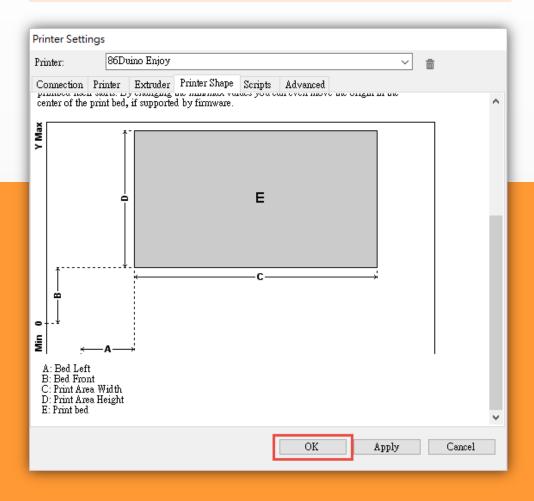
Software setup and Connection (6/7)

Printer Setup - Printer and setting (default)

7. Select "Printer Shape" tab, the default setting as shown



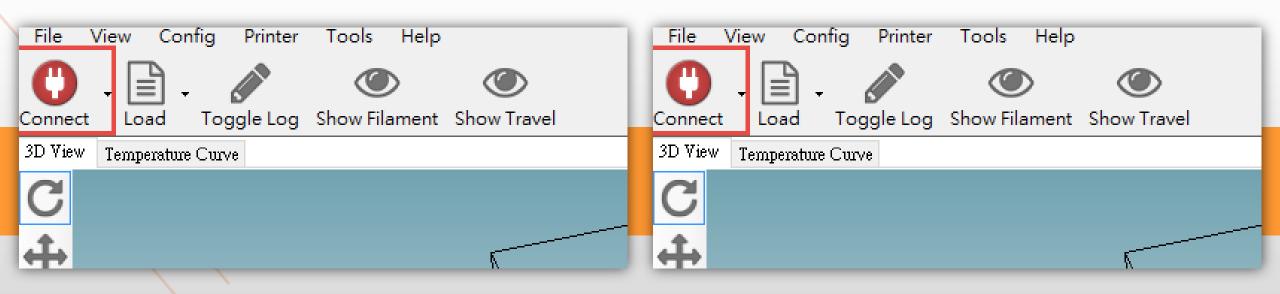
8. Click ok and Exit



Software setup and Connection (7/7)

9. Confirm the printer power on and micro USB cable connected PC, press the top left "Connect" button

10. The Enjoy Printer will emote a short 3-beep pepping sound and the red "Connect" icon will turn green



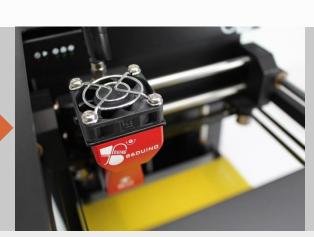
Calibration Settings

Setup and connection

Extruder Calibration

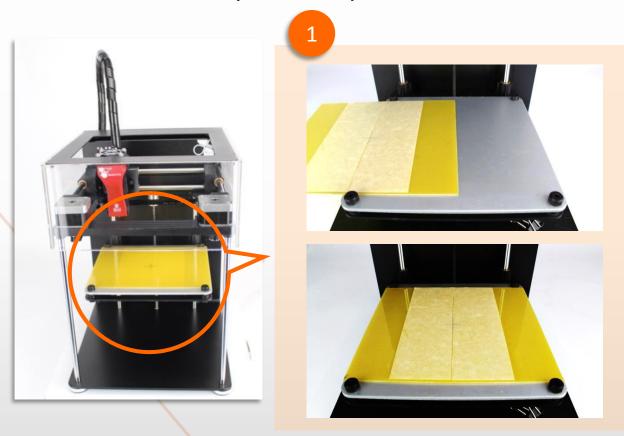
Print bed Calebration

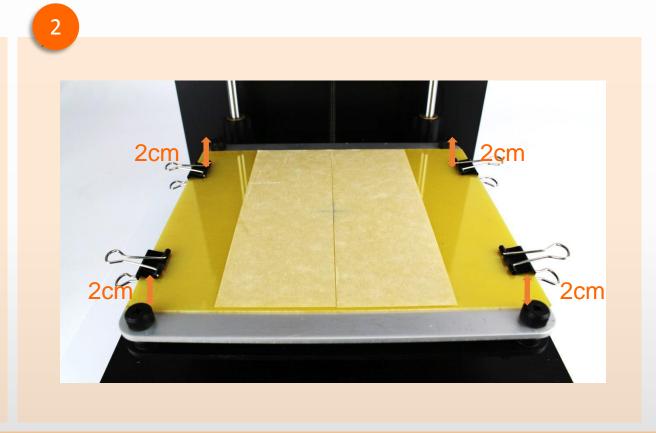




Leveling the Platform – Extruder Correction(1/10)

Extruder home position operation

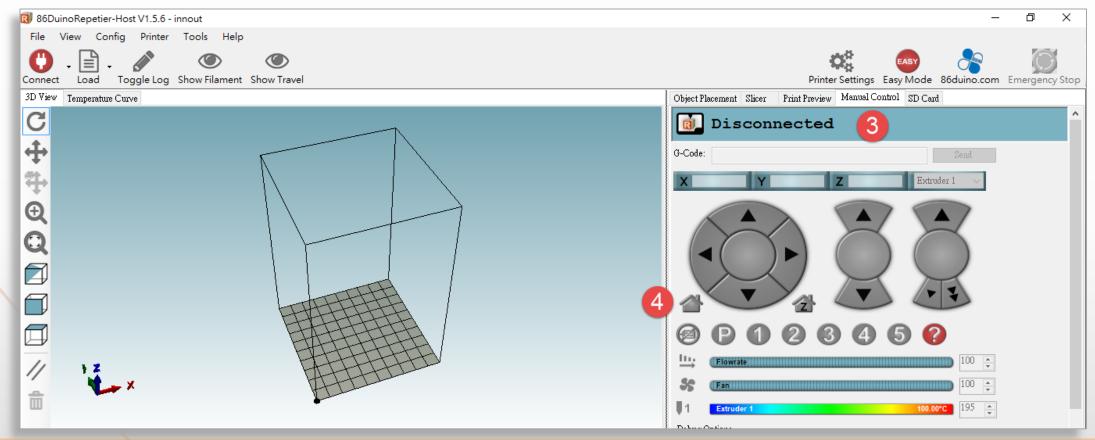




- 1. The object is placed on the tray to print bed (Attention the direction)
- 2. The clips sandwiched around object tray, the tray will be fixed on the print bed, clips should be noted from the level of about 2 cm above the knob, so as not to affect the follow-up bed horizontal adjustment.

Leveling the Platform – Extruder Correction(2/10)

Extruder home position operation

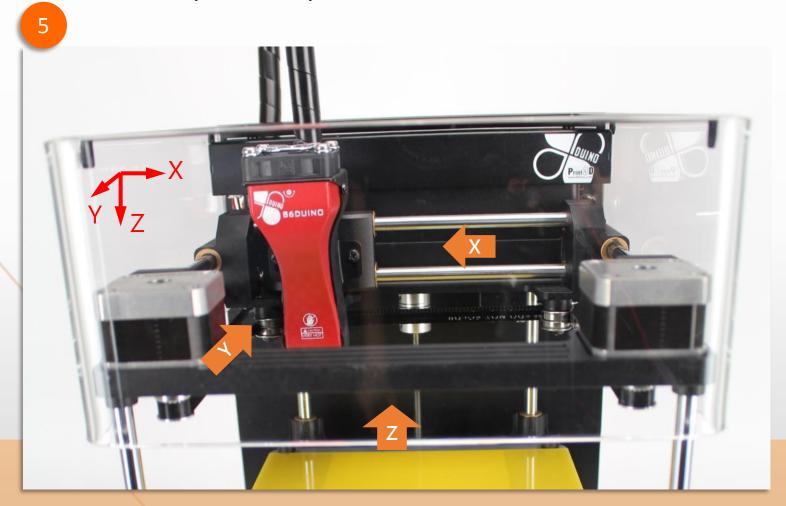


- 3. Click the "Manual Control" tab on the right side
- 4. then click on the Home icon, then the printer begins to move the extruder and print bed to home position

*note! Make sure to dismount the cable ties and other protective components of the fixed printer after this operation to avoid motor damage.

Leveling the Platform – Extruder Correction(3/10)

Extruder home position operation

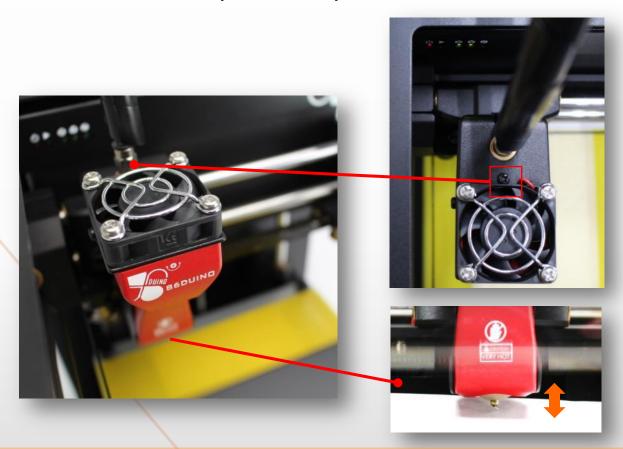




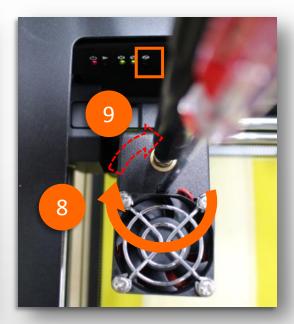
- 5. Extruder and print bed will move to home position
- 6. The extruder and print bed will reposition then stop. The X and Y LED will light up green, but NOT the Z LED

Leveling the Platform – Extruder Correction(4/10)

Extruder home position operation



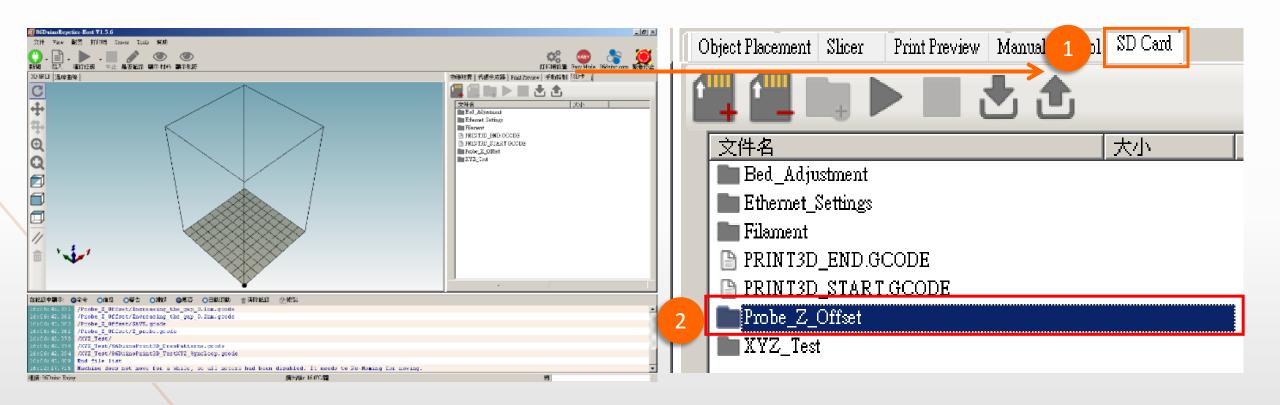




- 7. Using a Philips screwdriver, turn the screw (shown in the picture below) counter clockwise until the Z LED lights up green
- 8. Then, turn the screw back, clockwise, half a turn or until the Z LED turns off again.
- 9. In this case, please re-clockwise about a quarter turn more, let extruder in good position

Leveling the Platform – Extruder Correction(5/10)

Extruder Z offset

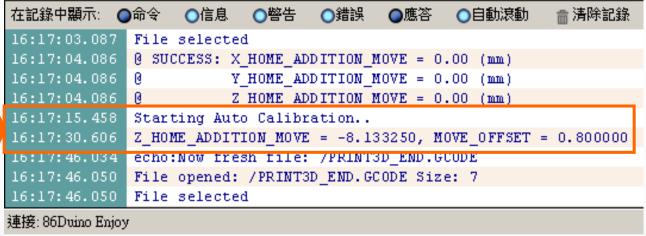


- 1. Click the "SD Card" tab
- 2. then double click on the "Probe Z offset" folder

Leveling the Platform – Extruder Correction(6/10)

Extruder Z offset

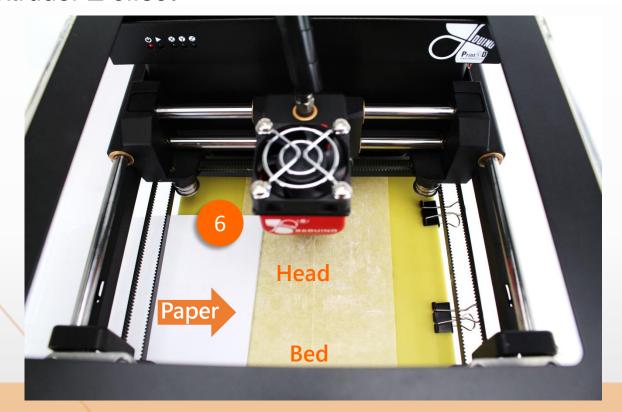




- 3. Click the "Z Probe gcode"
- 4. Click the "Start" 「▶」 icon at the top
- 5. The head will reposition and stop at the center of the platform/bed, status windows also show adjustment result.

Leveling the Platform – Extruder Correction(7/10)

Extruder Z offset







6. Using a strip of test paper (e.g., using a regular A4 sized paper,), try to insert the test paper between the head and the bed:

If you can insert the test paper between head and bed, but feel no resistant as you move the test paper around, the gap between the head and the bed is too large. You will need to click on Decreasing_the_gap

If you can NOT insert the test paper between the head and bed, the gap between the head and the bed is too small. You will need to click on "Increasing the gap

Leveling the Platform – Extruder Correction(8/10)

Extruder trimming

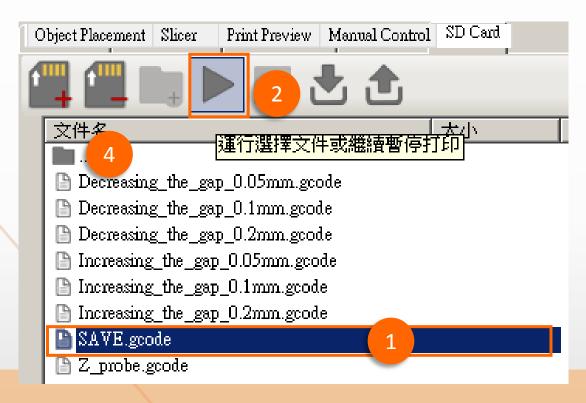


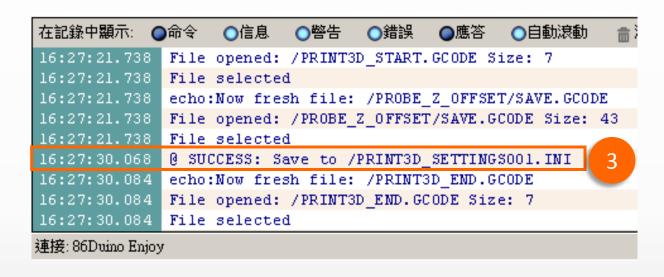
Option	Note	
Decreasing_the_gap_0.05mm	0.05 mm	
Decreasing_the_gap_0.1mm	0.10 mm	
Decreasing_the_gap_0.2mm	0.20 mm	
Increasing_the_gap_0.05mm	0.05 mm	
Increasing_the_gap_0.1mm	0.10 mm	
Increasing_the_gap_0.2mm	0.20 mm	

- 1. Select Decreasing or Increasing option
- 2. click the "Start" icon at the top of the screen. The head and bed will re-calibrate
- 3. Repeat the above two steps until you can insert the test paper between the head and bed, and feel resistance when you move the test paper around

Leveling the Platform – Extruder Correction(9/10)

SAVE Extruder trimming





- 1. Now you can click "SAVE gcode
- 2. Click on the ► icon at the top of the screen
- Status Windows will show SAVE success*
- 4. Double click on the folder icon(#4) to go back to the previous manual
- * Do not turn off the Printer before the save completed or disconnect the connection, otherwise it will cause serious damage to the system!

Leveling the Platform – Extruder Correction(10/10)

After the completion of the extruder correction and save, you do not need to do correction every time, but if the following situations occur, recommended do extruder correction again:

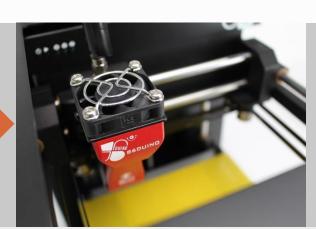
- 1. Printers have moved
- 2. Extruder collision with objects
- 3. Object will not stick to build plate
- 4. Objects warping

Calibration Settings

Setup and connection | Extruder Calibration

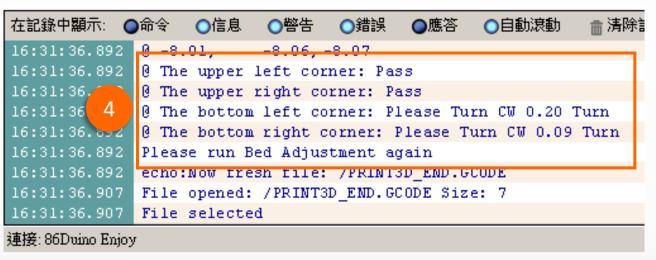
Print bed Calebration





Leveling the Bed(1/3)





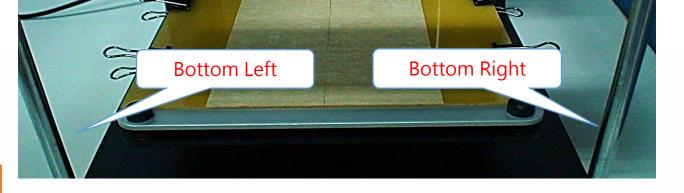
- 1. Double click on the "Bed Adjustment" folder
- 2. Click on "Bed_Adjustment.gcode

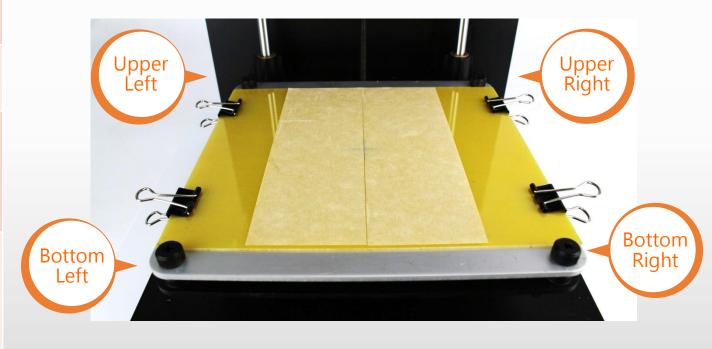
XYZ Test

- 3. click on the "Start" icon (#2) at the top. The head will do a 9 point test. Wait until the head has stopped completely
- 4. Review the Log window at the bottom left, scrolling down/up if needed, to see the following result

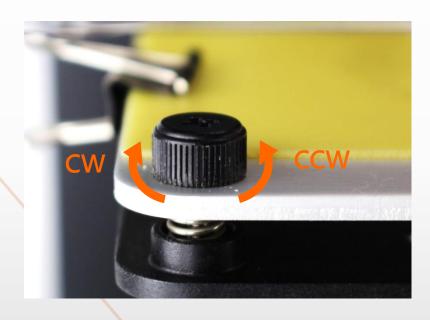
Leveling the Bed(2/3)

	Position	Knob	Note
	The upper left corner:	Pass	passed and do not need any adjusting
	The upper right corner:	Pass	passed and do not need any adjusting
	The bottom left corner:	Please Turn CW 0.20 Turn	Turn the adjustment knob Clockwise 0.20 of a turn.
	The bottom right corner:	Please Turn CCW 0.09 Turn	Turn the adjustment knob Counterclockwise 0.09 of a turn.





Leveling the Bed(3/3)



```
在記錄中顯示: 〇命令
                 ○信息
                         ○警告
                                 ○錯誤
                                        ●應答
                                                〇目
             0 -8.14, -8.12, -8.05
16:58:31.385
16:58:31.385
             0 - 8.09, -8.15, -8.10
16:58:31.385
             @ The upper left corner: Pass
16:58:31.385
             @ The upper right corner: Pass
16:58:31.385 0 The bottom left corner: Pass
16:58:31.385 0 The bottom right corner: Pass
16:58:31.385
             echo: Now fresh file: /PRINT3D END.GCODE
16:58:31.401
             File opened: /PRINT3D END.GCODE Size: 7
16:58:31.401 File selected
```

連接: 86Duino Enjoy

Go back to step again and repeat the step until you see all four corner are Pass. Now you have completed the leveling of the platform.

Print Test

Load 3D object

Slice and G-Code

Adjust print object
Start print



Load 3D object (1/2)



- 1. Click the "object replacement" tab
- 2. Click "Add object"

- 3. *Select 3D print file you are going to Print (*.STL)
- 4. Click on to load the file

Load 3D object (1/2)

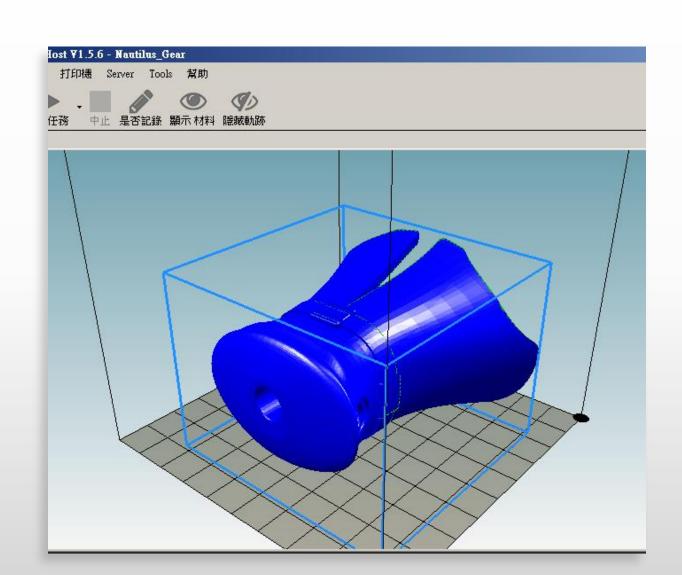
You can review the file/image with some options on the left side tool bar:

Press and hold the left mouse button and move mouse, can change the viewing angle

Press and hole scroll wheel and move the mouse horizontally movable perspective

Up / down scroll wheel to zoom in / wide view

Right-click on the object and hold and move the mouse, the position of the movable object



Print Test

Load 3D object

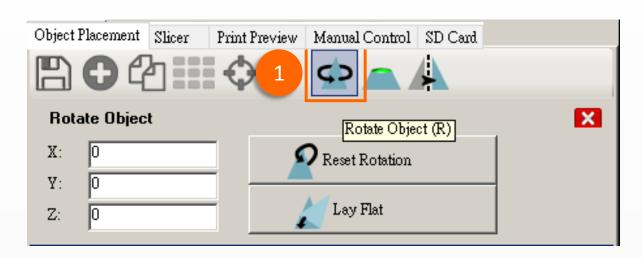
Adjust print object

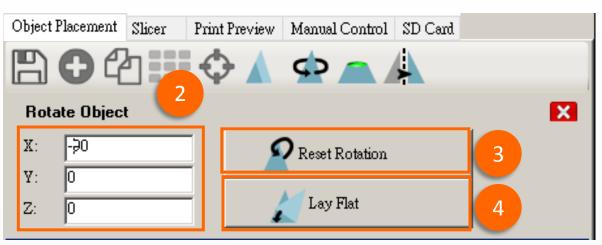
Slice and G-Code

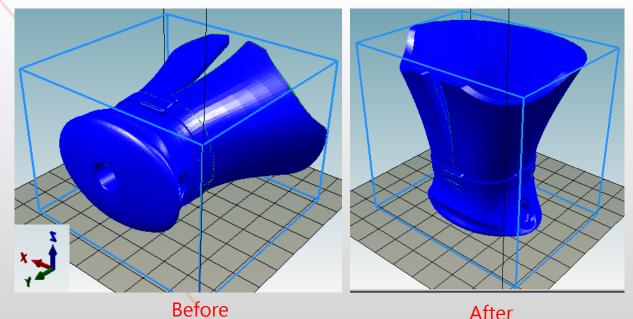
Start print



Adjust the print object - rotate object

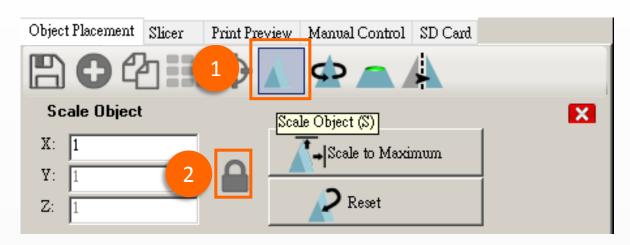




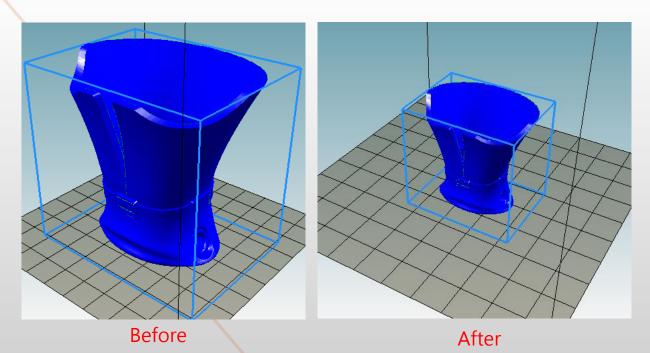


- 1. Click Rotate object icon
- 2. by the X, Y, Z axis input rotation angle, you can see the result of the rotation
- 3. "Reset Rotation" button to reset the rotation
- 4. Click on "Lay Flat" button, you can automatically rotate the object closest to the bottom

Adjust the print object - rotate object







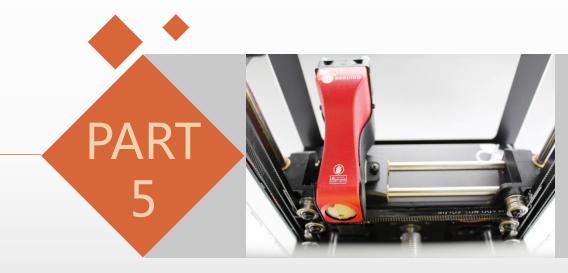
- 1. Click Rotate object icon
- 2. by the X, Y, Z axis input rotation angle, you can see the result of the rotation
- 3. "Reset Rotation" button to reset the rotation
- 4. Click on "Lay Flat" button, you can automatically rotate the object closest to the bottom

Print Test

Load 3D object

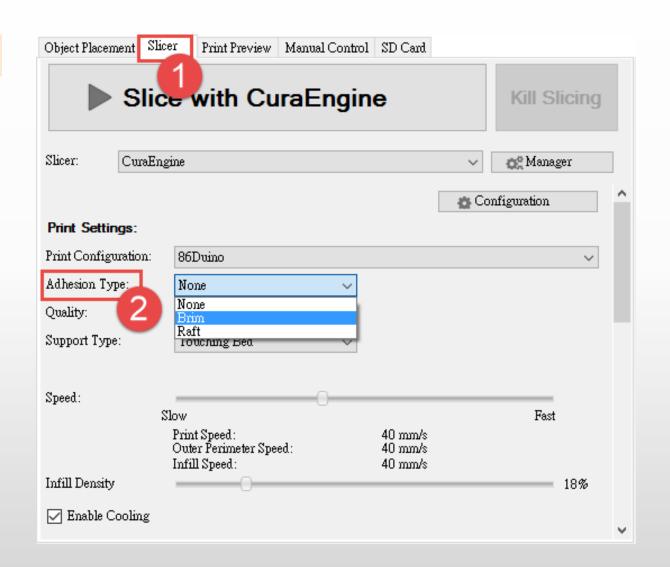
Slice and G-Code

Adjust print object
Start print



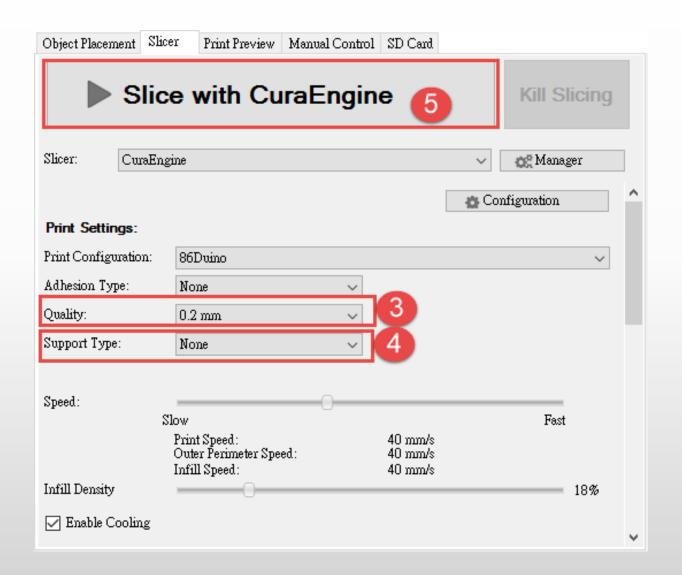
Slice with CuraEngine

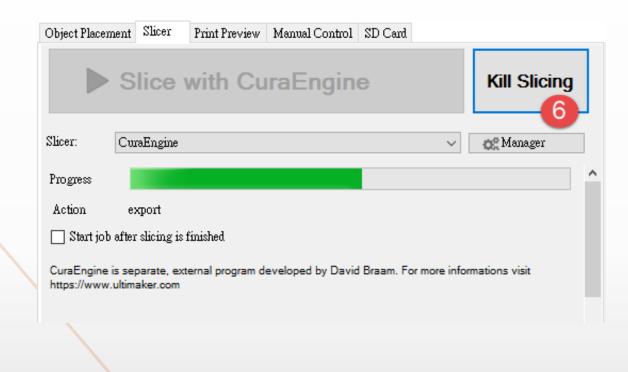
- 1. Click Slice Tab
- 2. Click 「Adhesion Type」 menu, setting Adhesion type:
 - 1) None: None
 - 2) Brim: Thin layer on the bottom
 - 3) Raft: Thick layer on the bottom



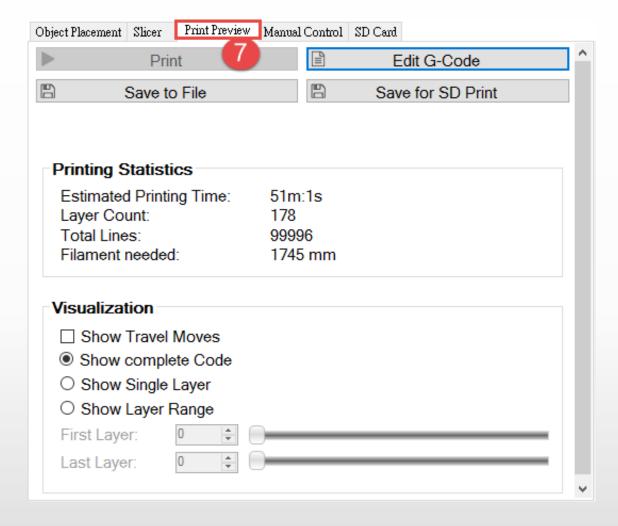
Slice with CuraEngine

- 3. Click the "Quality" menu, set * print thickness, have 0.1 mm and 0.2 mm options
- 4. Click on "Support Type" menu, set the object support mode:
 - None: No support
 - Touching Bed: only the bottom portion of the floating object and generate support layer
 - Everywhere : All objects floating parts are produced support layer
- 5. Click the "Slice with CuraEngine" produce print codes (G-Code)





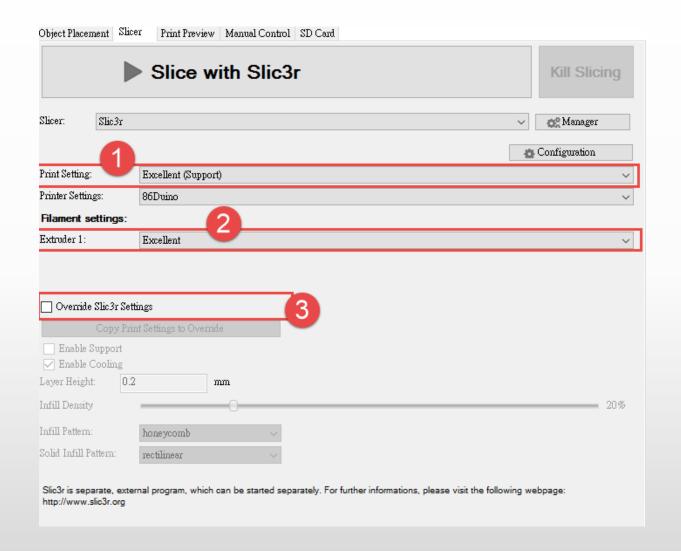
Slice with CuraEngine



- 6. The Show Print code generation progress, to cancel code generation can click "Kill Slicing" button
- 7. Print code completion, it will automatically jump to "Print Preview" tab to display the estimated time to print, number of layers and the estimated length of the filament length, and is ready to begin printing

Slice with Silc3r

- 1. Print quality setting
 - Excellent(Support):Excellent with support
 - Excellent : Excellent without support
 - Fast (Support) : Fast with support
 - Fast : Fast without support
 - Regular (Support) : Regular with support
 - Regular : Regular without support
- Extrusion quality (Extruder 1):
 - Excellent
 - Fast
 - Regular
- 3. Override Slic3r Settings:this option is reserved for advanced users, no need to checked



Print Test

Load 3D object

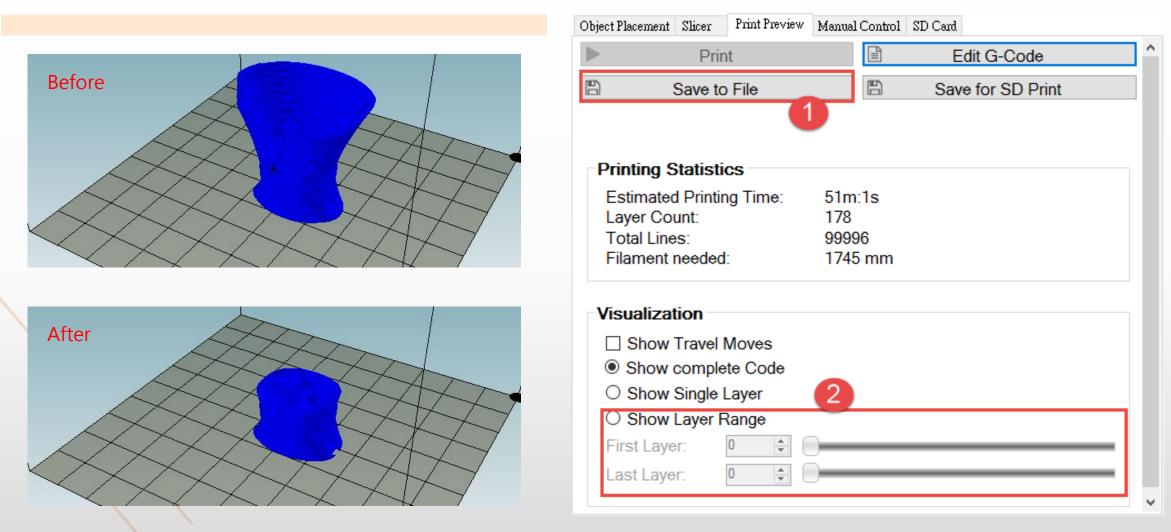
Slice and G-Code

Adjust print object

Start print

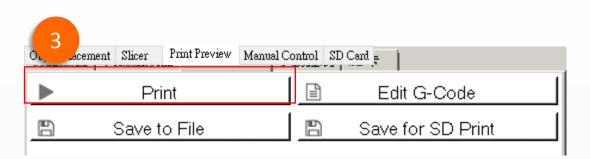


Start Print

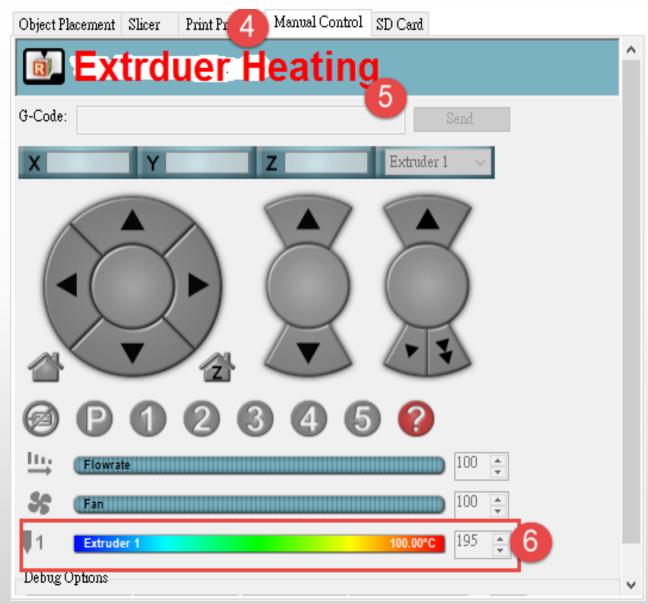


- 1. Click on "Save to File" button, you can save code is as "* .gcode" type file
- 2. Slider the "First layer" and "Last layer" or set the number, you can watch the print path between the layers

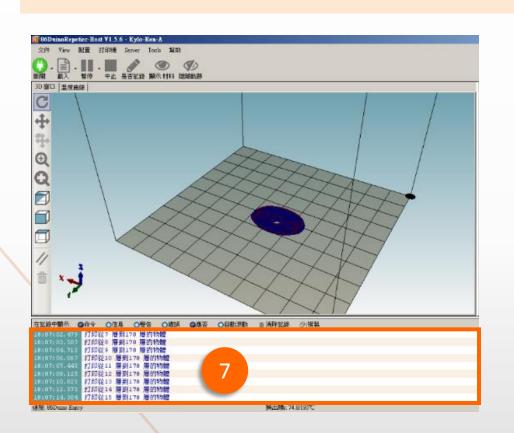
Start Print

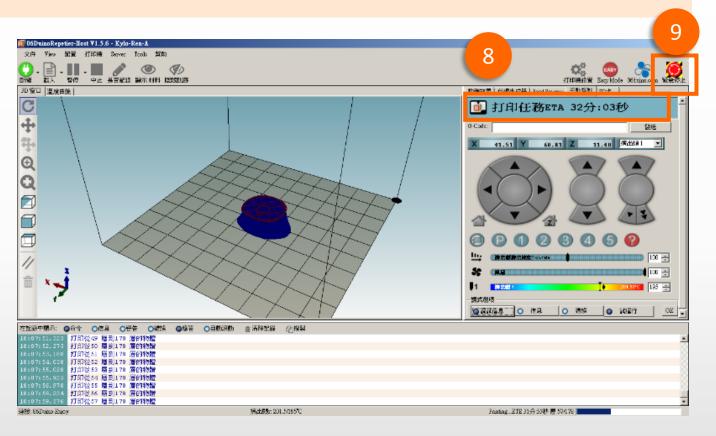


- 4. Click on "Print" button to start printing
- 5. At this time will automatically jump to "manual control" tab, and displays the status of print
- 6. Will first heated extruder before the start of printing, wait a few minutes
- 7. After the extruder to be heated to a preset temperature will begin to print

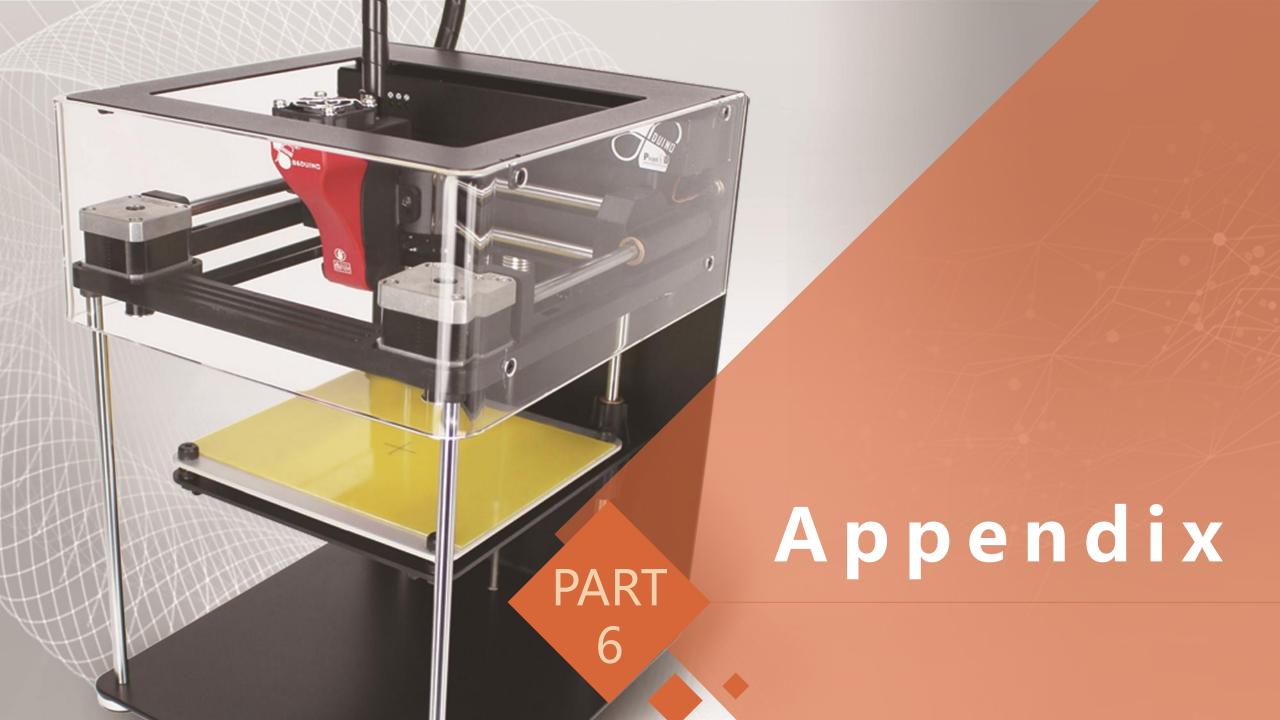


Start Print





- 7. At the same time printing, software will continue to transmit the code to the printer to print
- 8. "Manual control" tab will show "Code Transmission" remaining time (note! Non-print time remaining)
- 9. During the printing process if you need to stop the printing, for whatever reason, click on "Emergency Stop" button on the top right.



Appendix-A Unload Filament

 Within a short time when you will not use printer, suggest unload filament from the extruder, so as to avoid filament solidification leads to clogged extruder.

2. Turn the power on, press and hold the rear red button after three seconds unload release, then the system will issue a warning sound, the system will begin to filament unloading automatically.

3. Unloading takes about three minutes or so, at same time also cleanup extruder when unload filament

