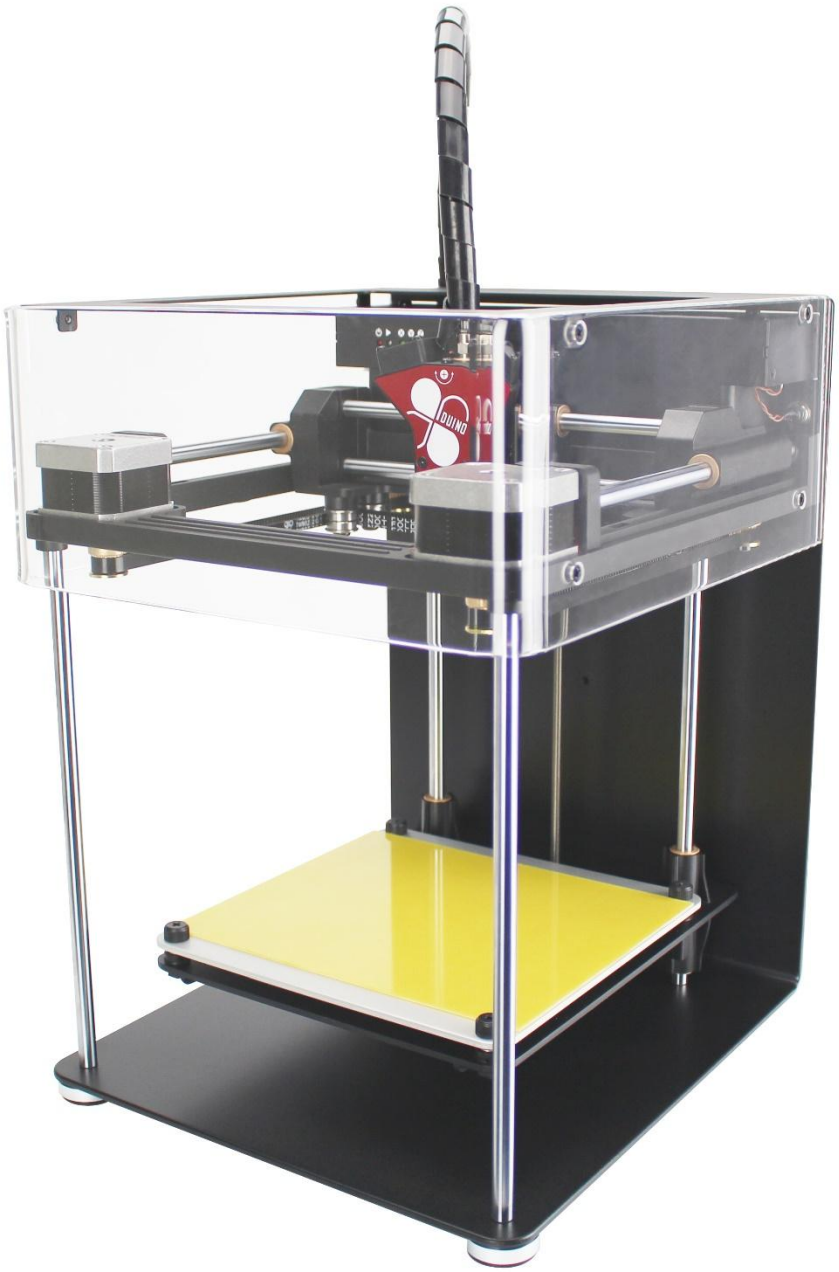
Enjoy 3D Printer Quick Start Guide



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ICOP Technology Inc., offers 3 month warranty for head and rest parts for 1 year,

Shipment of the 3D Printer

If for any reason you must ship your 3D printer, carefully package the printer to avoid any damage during transit. It is recommended that you save and use the original packaging.

Chapters

Introduction

Please study this Quick Start Guide carefully before installation, and use the printer Accordingly to these instructions. Keep this guide handy and refer to it when necessary.

Please read this section carefully before using the printer.

The printer can only be used with the power adapters supplied by this company, or the product may be damaged, with a risk of fire. To avoid burning, or model deformation, do not touch the model, nozzle, or the platform by hand, or any other part of the body, while the printer is working or immediately after it has finished printing. Protective glasses should always be worn when removing support material, especially PLA. Please do not hold the extruder block with the gloves.

Operate in a well ventilated room but draught free. Do not use ABS plastic or its printed parts near any kind of heat source, flames, fireworks, candles, incense, light bulbs, rockets etc. PLA will catch fire and burn a thick black smoke. Always have adult supervision when children are present. Please keep all small printed parts away from young children, choking hazards! There are several safety issues, small tools, sharp tools and HOT objects and most parts used in connection with the 3D Printer. Tie back long hair and loose clothing. Keep fingers away from moving parts. Tools and parts should be stored at a suitable height away from small children. Tools should be used in conjunction with safety gloves and glasses.

Specification

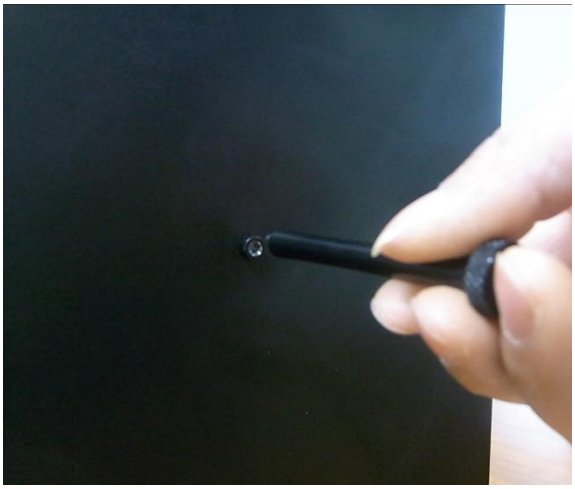
Dimension	240mm x 270mm x 330mm (W x L x H)
Weight	8.0 kg
Forming Process	FFF (Fused Filament Fabrication)
Build Volume	100mm x 100mm x 150mm (1,500 cm3)
Layer Resolution	0.1 mm
Nozzle Diameter	0.3 mm
Printing Material	PLA
Power	48 W
Power Requirement	24v DC@2A
AC Input	100-240v
Software	Repetier Host

Chapter 1

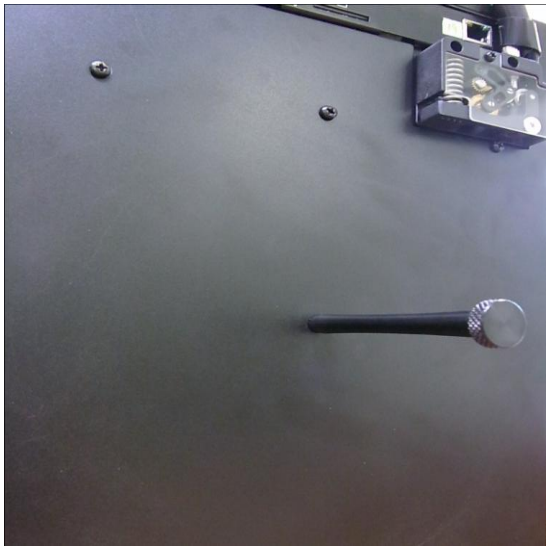
Unpack Enjoy 3D Printer

1. **Carefully open the package for Enjoy 3D printer. Try to remove all zip tie And put the 3D printer on your flat table or desk.**

2. **Install the filament holder at the back of the printer: (screw in counter clockwise)**



3. **Put the filament on the holder (Make sure the filament is free for rotation !)**

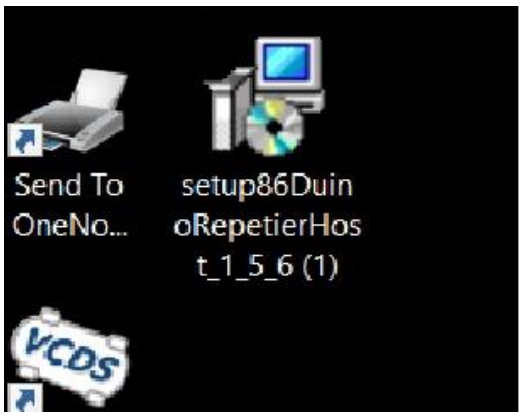


Chapter 2

Download and Install Software

1. **Download the following to your computer:**
   setup86DuinoRepetierHost_1_5_6 (1)
   Link: http://www.icoptech.net/arduino/3d-printer/

2. **Double click on the setup file icon:**



3. **Select the language you prefer and click on "OK":**

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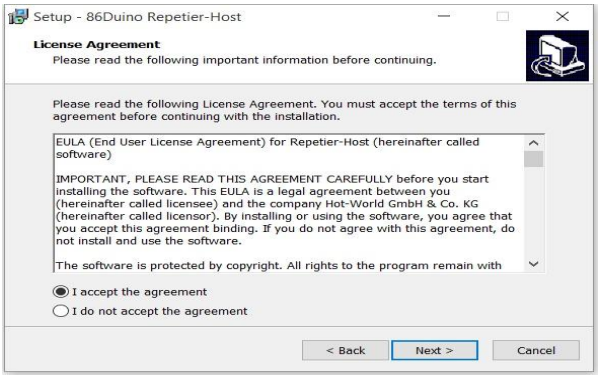
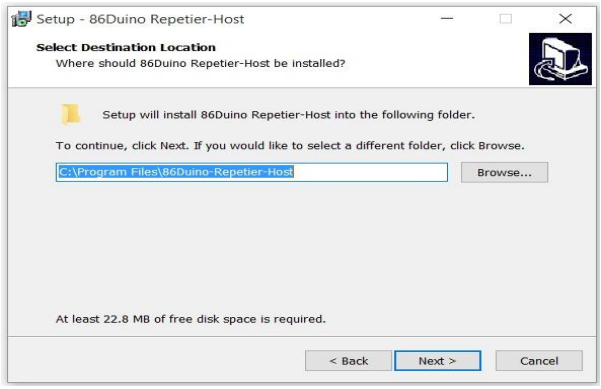
4. **Click on “Next” on Repetier-Host Setup Wizard :**

5. **Select “ I accept the agreement” and then click on “ Next” .**



6. **Click on “Next” if you like to put it under “Program Files” or You can put it your prefer location by click on “Browse….”**



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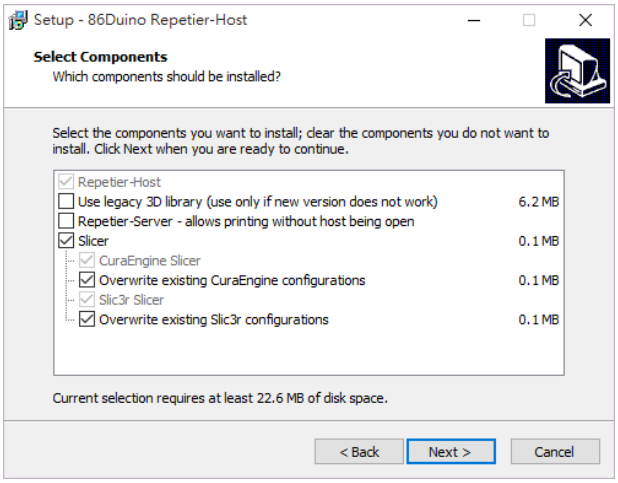
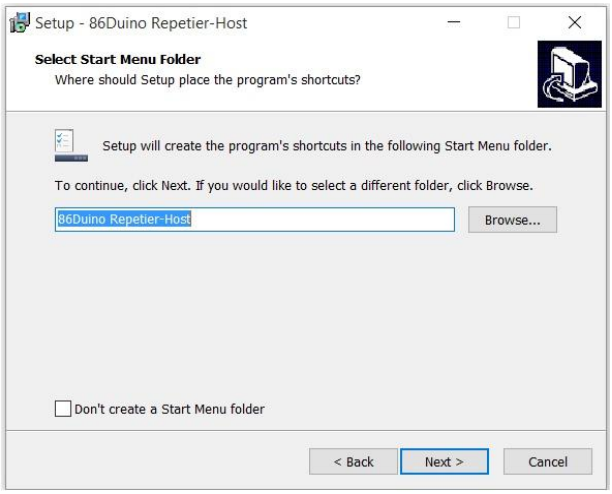
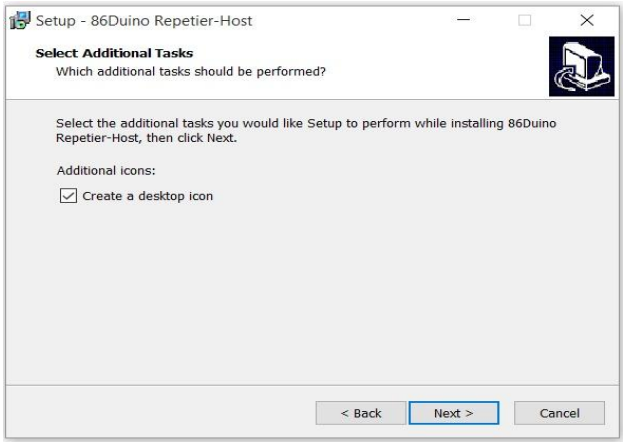
7. **Click Slicer and under two options and then click on “Next”**



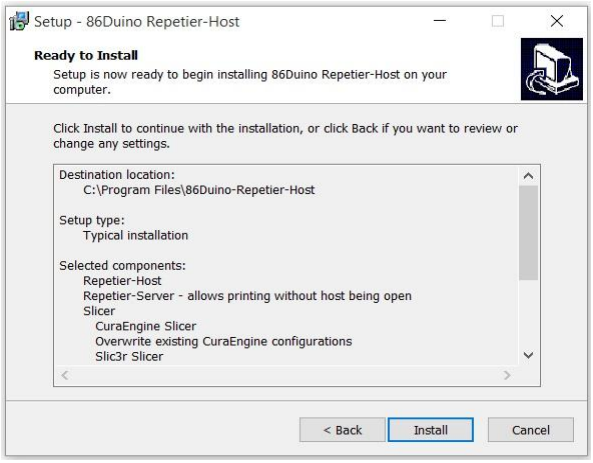
8. **Click on “Next” if you like to put the shortcut on “86Duino Repetier-Host” or you can click on “ Browse…” for others.**



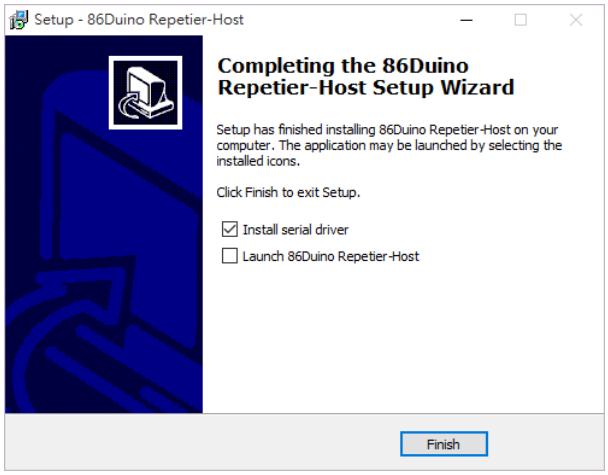
9. **If you like to create a desktop icon, mark it and then click on “Next”.**



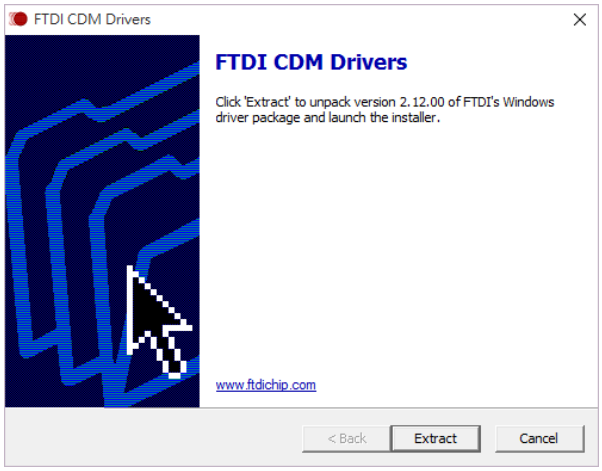
10. **Click on “Install” to start the installation.**



11. **Click on “Next” on Repetier-Server Setup screen:**



12. **Click on “ Extract” to install FTDI**



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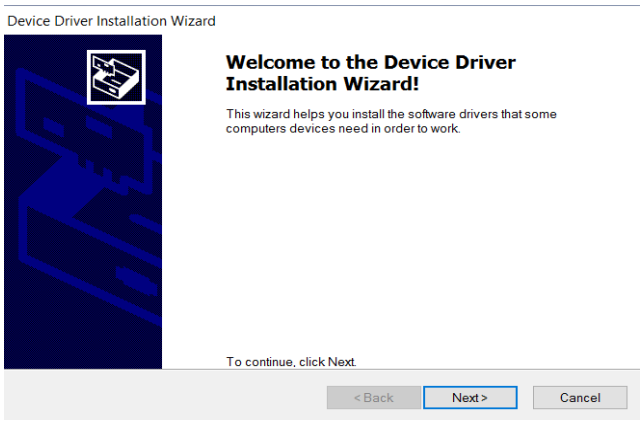
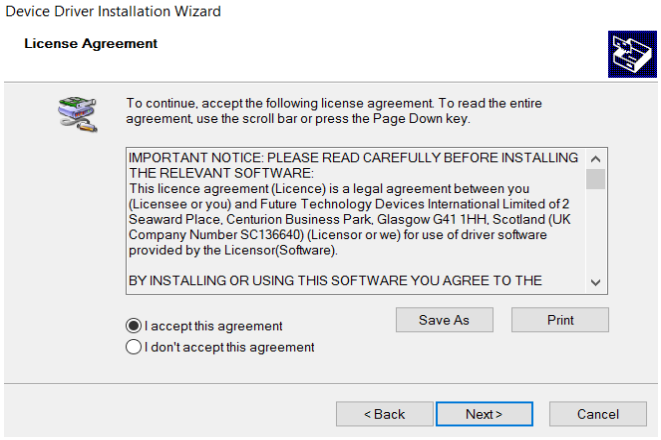
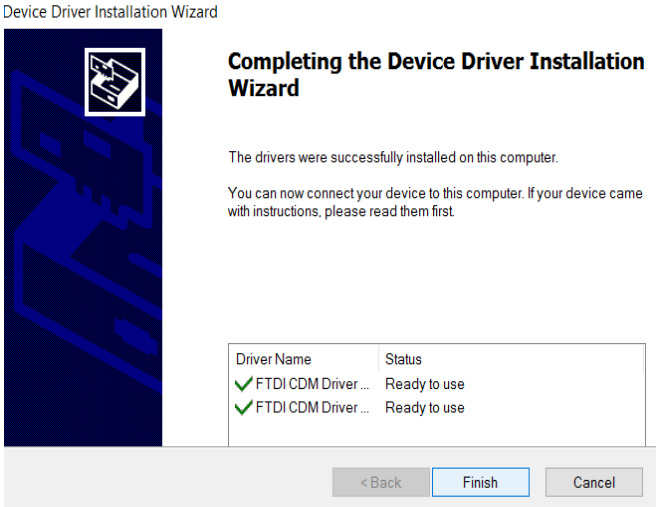
13. Click on “Next” to installation.



14. Select “I accept this agreement” and then click on “Next”



15. After complete the installation, click on “Finish”.



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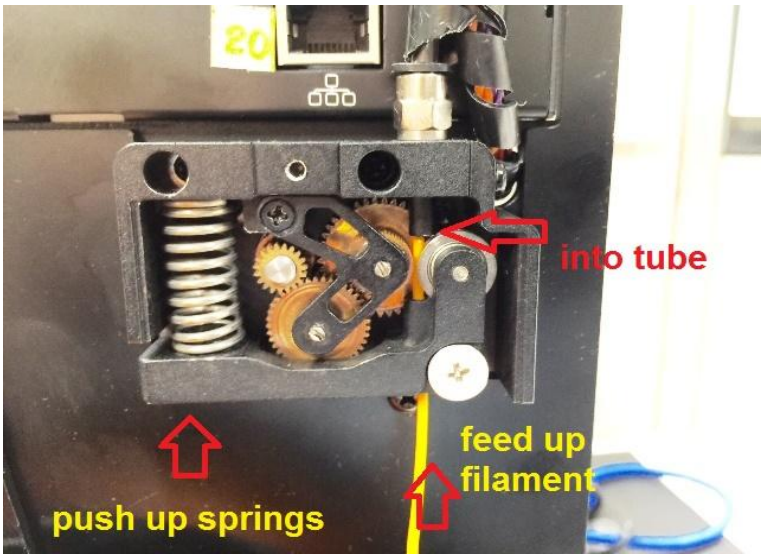
Chapter 3

Loading the filament into Extruder

1. **Cut off 2 inch of the beginning part of the filament to prevent use the harden part of filament.**

2. **Use left thumb to push up the spring on the left and use right hand to feed the filament up into the tube.**

3. **Keep feed up the filament until you feel there is NO room for more filament, release the spring and your filament is ready**.



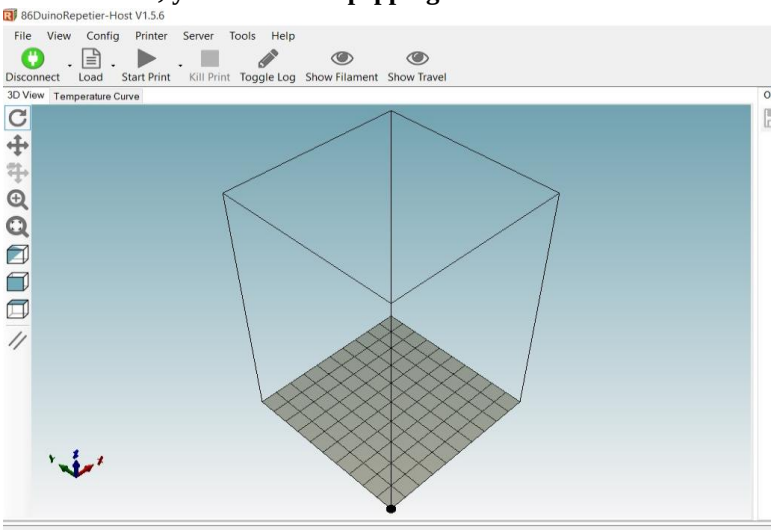
Chapter 4

Connect Enjoy 3d Printer

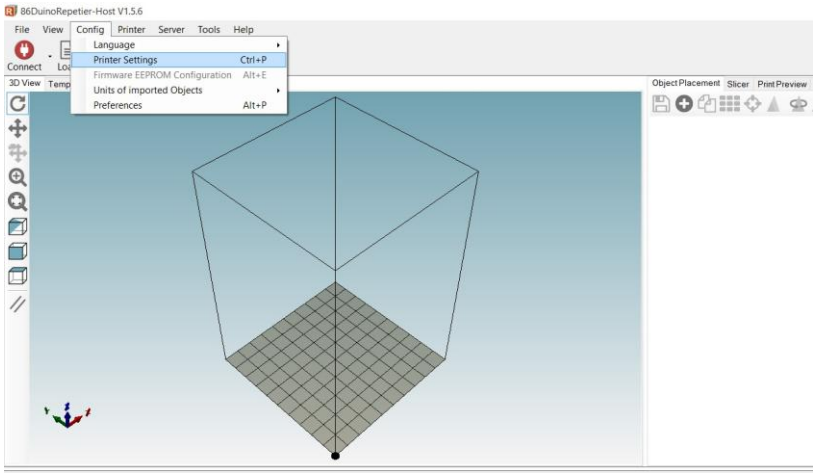
1. **Connect the Power supply to a AC (100-240V) source and a USB cable to the computer.**
2. **Do NOT turn on the power switch yet.**

3. **Start the RH by double click on the desktop icon:**

4.Turn on the power switch on back of the Enjoy 3D Printer, and click on the red "Connect" on the top left , after 2 seconds, you will hear a pepping sound on the Printer and the red "Connect" become green .

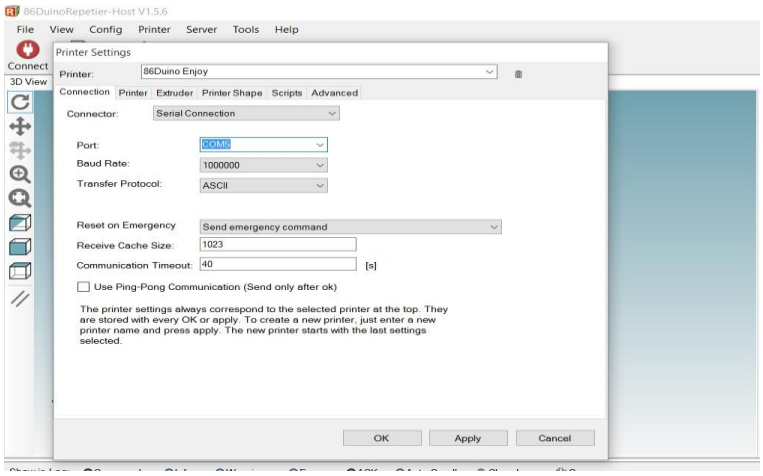


4. **If you can not connect the 3D printer and your computer.(The connect bottom still in red). Click "Config" top and select "Printer Settings".**



5. **Select correct COM port for the 3D printer. The default setting is "Auto". Only select manually if you can NOT connect 3D printer and your computer.(Check your computer's Device Manager if you are not sure what is your com part for the 3D printer)**

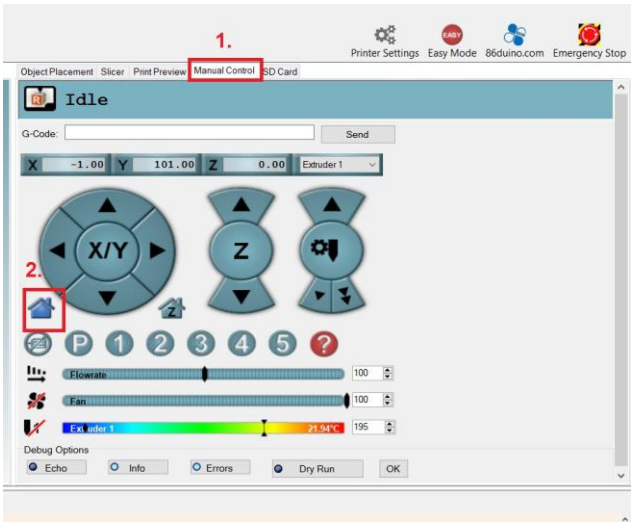
6. **Try to connect the 3D printer and computer again by click the red bottom on the top left.**



Chapter 5

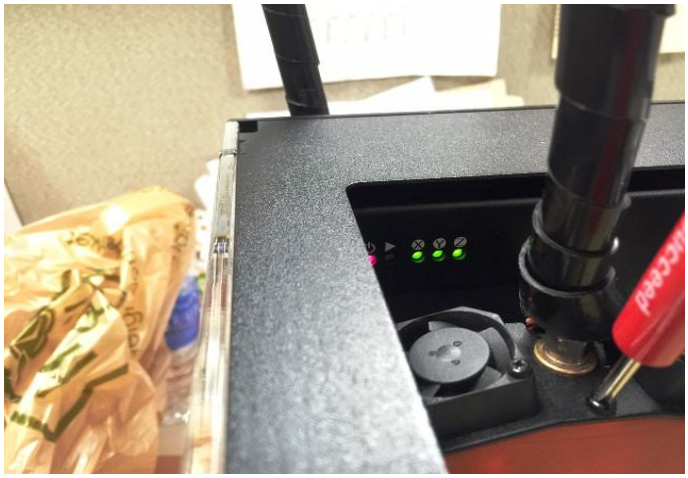
Leveling the Platform

1. **Click on "Manual Control" on the right side of RH and then click on #2 (Home)**

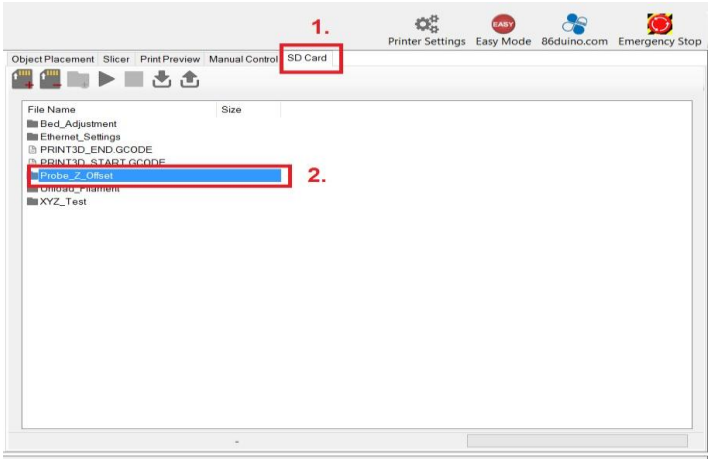


2. **The head will move and stop, the X and Y LED lights up green, but NOT the Z.**

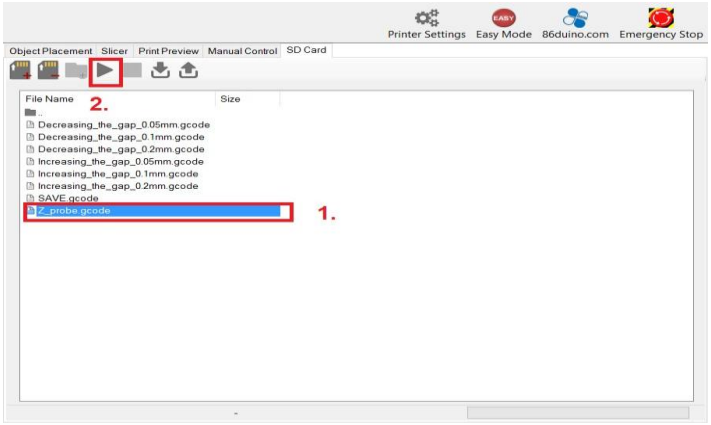
3. **Use a Philips screw driver, turn the screw counter clockwise and until the green LED lights up on Z led, and then turn screw back (Clockwise) for half turn, notice the Z led will be off again:**



4. **Click on "SD Card" and then double click on "Prove Z offset"**

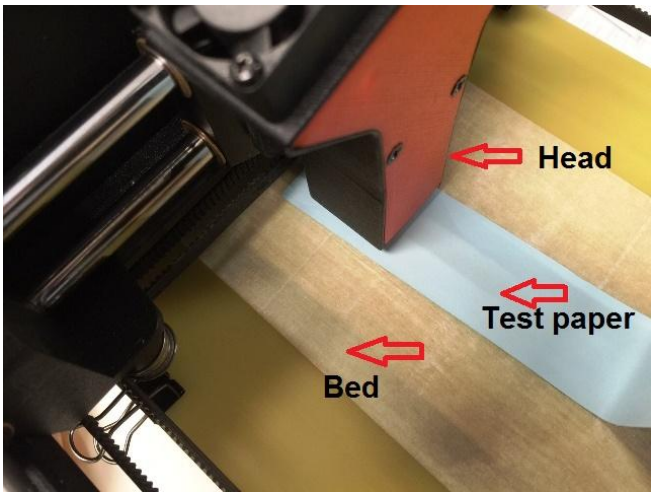


5. **Click on "Z Probe gcode and then "start" on the top.**

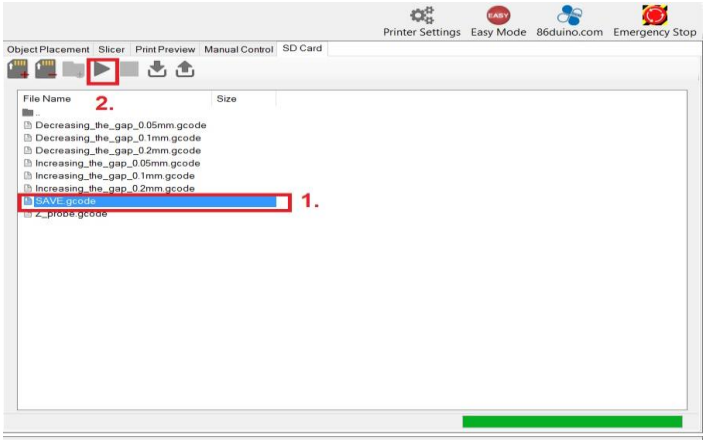


6. **The head will move around and stop at center, use a test paper(use a regular A4 paper, cut it become 1"x 8") and try to insert the test paper between the head and bed:**

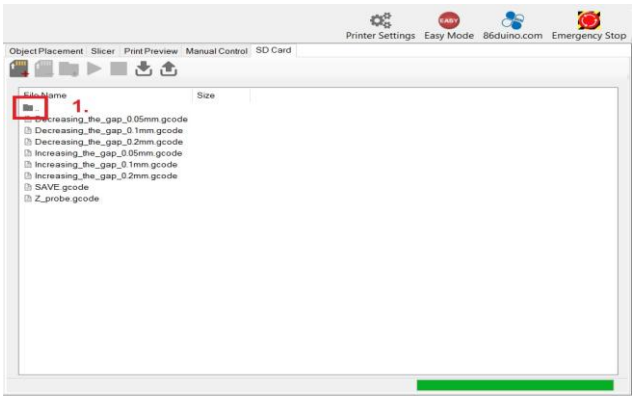
a. **if you can insert the test paper between head and bed, also feel test paper move around too freely (no resistant at all) remove the test paper and then click on Decreasing_the_gap_0.1mm gcode or Decreasing_the_gap_0.05mm and then click "Start" on the top. The head and bed will re-calibrate again and stop.**
b. **If you can NOT even insert the test paper between the head and bed, you will need to click on "Increasing_the_gap_0.1mm or Increasing_the_gap_0.05mm" and click on the "Start" on the top. The head and bed will re-calibrate again and stop.**
c. **Repeat above two step until you can insert the test paper between the head and bed, and also feel a resistant when you move around the test paper between the head and bed.**



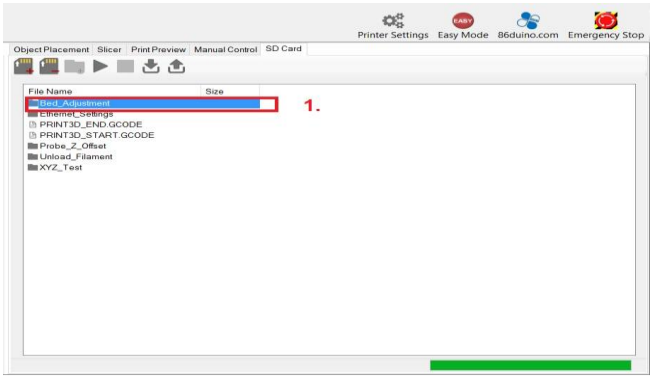
d. **Now you can click on "SAVE gcode" and click on "Start" on the top**



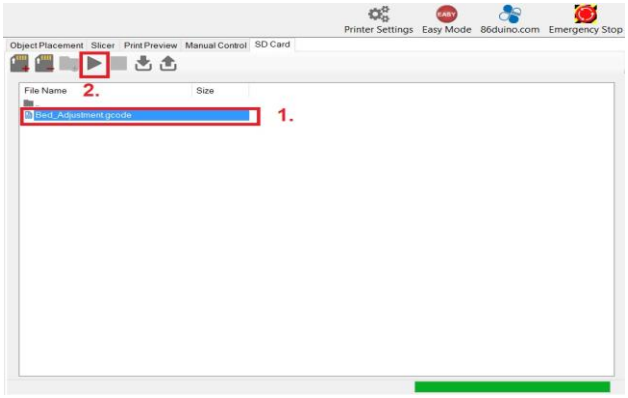
7. **Now double click on the folder #1 to go back to the previous manual.**



8. **Double click on "Bed Adjustment" on #1 folder.**



9. **Click on "Bed_Adjustment gcode" and then click on "Start" on the top. Now the head will do a 9 point test, wait until the head has stop totally:**



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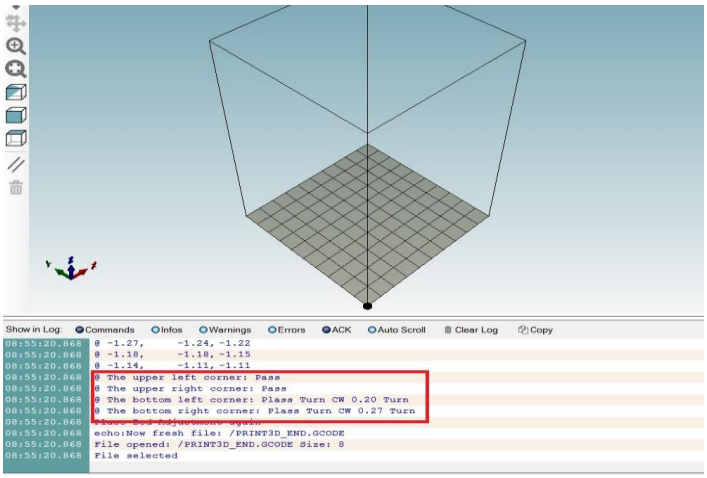
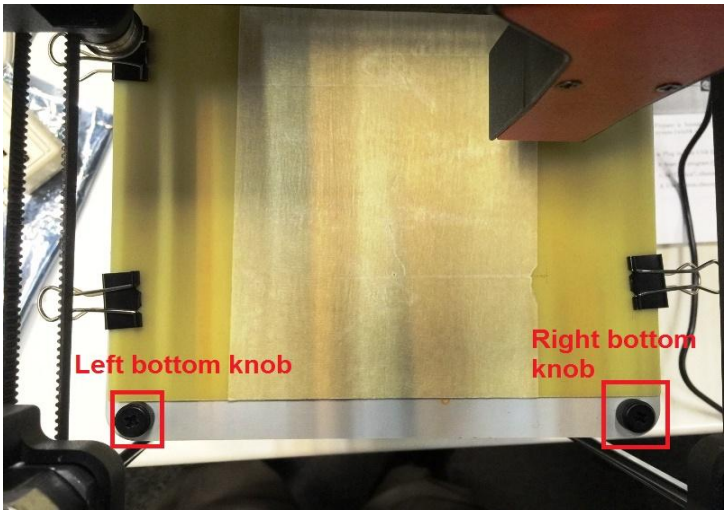
a. **Look at the log windows on left bottom:**

@ The upper left corner: Pass
@The upper right corner: Pass
@The bottom left corner: Please turn CW 0.20 Turn
@The bottom right corner: Please turn CW 0.27 Turn



b. Follow the above instruction:
For upper left and right corner does not need any adjustment.
For bottom left corner: Please turn the adjust knob Clockwise 0.20 Turn.
For bottom right corner: Please turn the adjust knob Clockwise 0.27 Turn

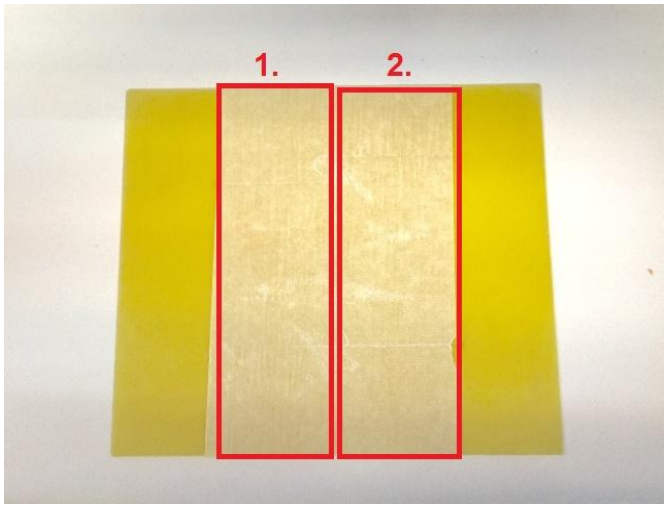


10. Go back to Step 10 again and repeat the step until you see all four corner are Pass. Now you have completed the leveling platform !

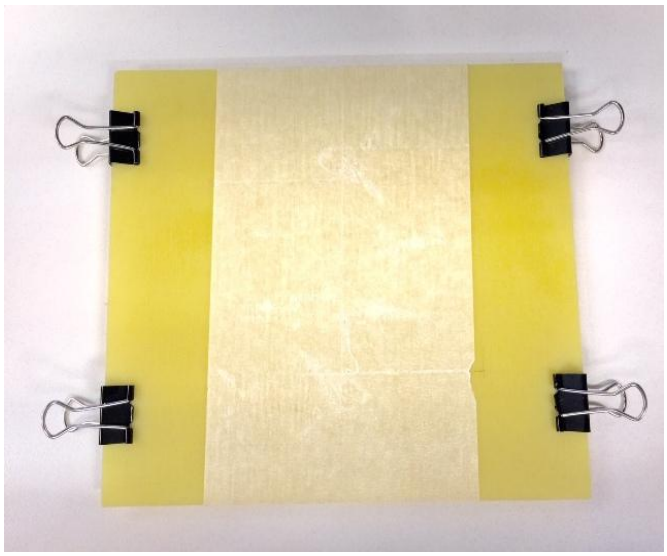
Chapter 6

Printing

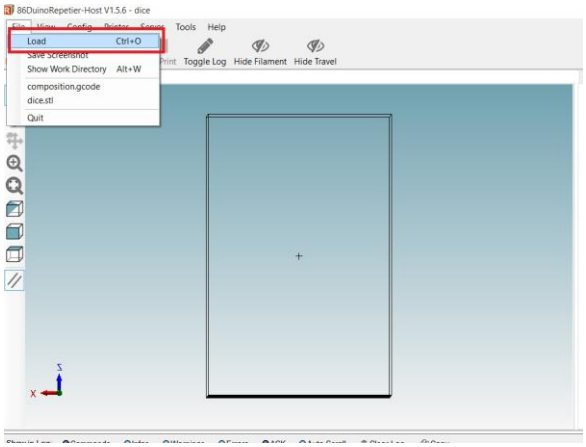
1. **Please apply two sheet of masking tap on the printing board:**



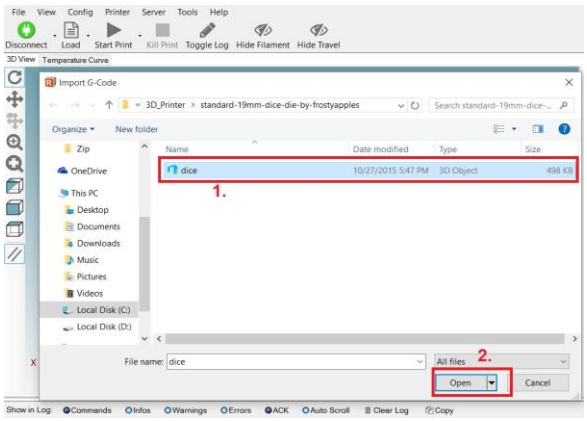
2. **Use 4 small clip fix the printing board on top of the bed:**



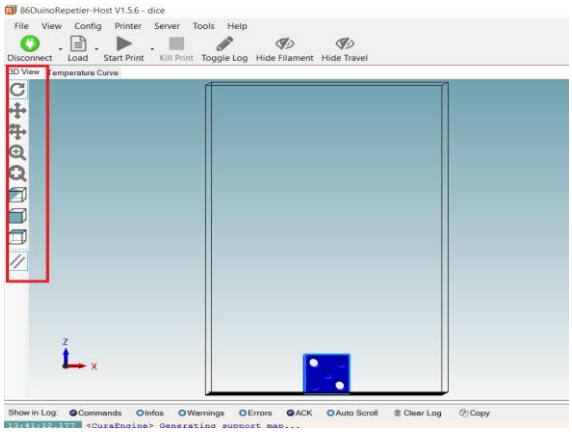
3. **Click on “File” on the top and then select “Load” :**



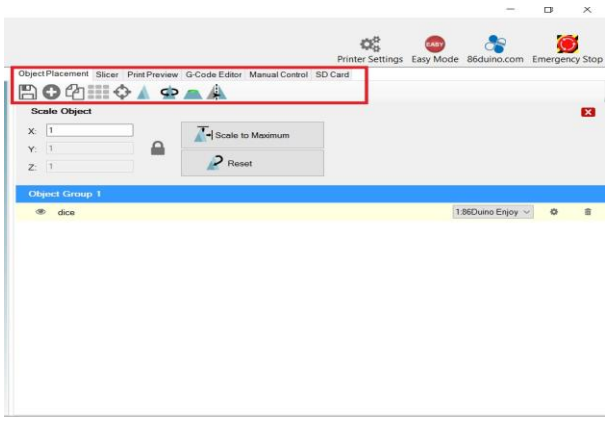
4. **Select the file you are going to print and then click on “Open”:**



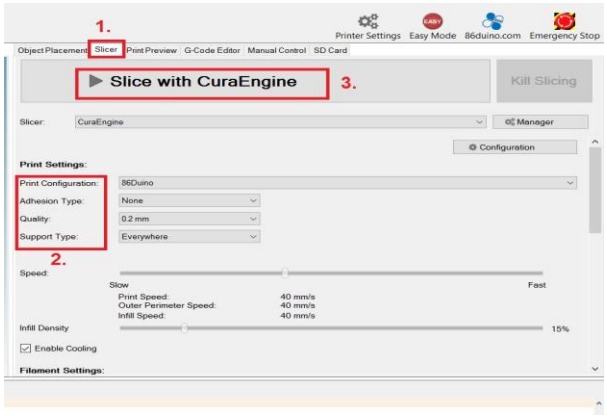
5. **You can view it with some options on the left:**



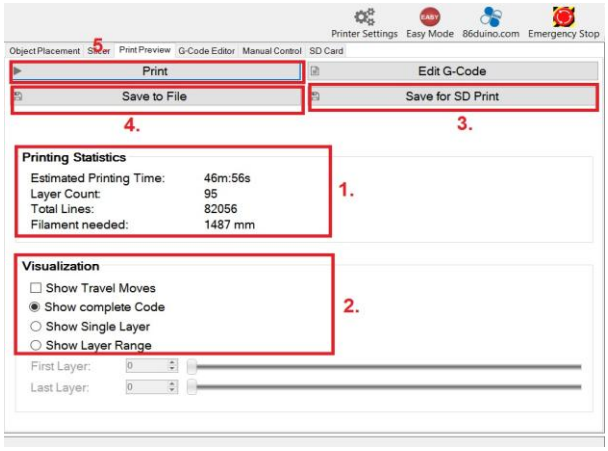
6. **You can also edit the image file on the right:**



7. **Click on "Slice" and select the option you prefer and then click on "Slice with CuraEngine":**



8. **You can see the following information:**
   1. **Printing Statistics: Printing time and other information**
   2. **Visualization: Select prefer options**
   3. **Save the file to a SD print**
   4. **Save the file to the computer**
   5. **Start Printing**



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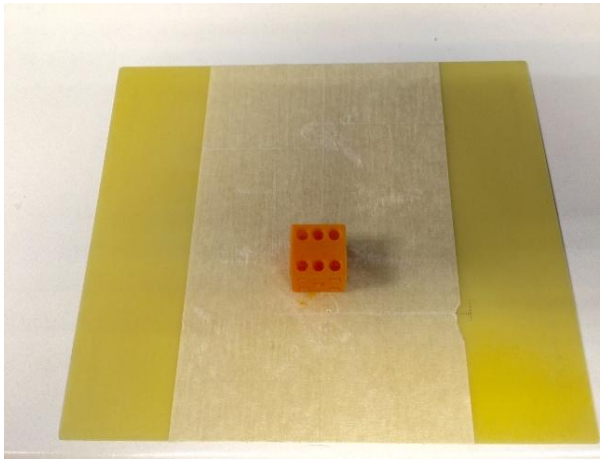
9. **The 3D printer will start printing your loading file, during the printing for whatever reason you need to stop the printing, Please click on "Emergency Stop" on the top right.**

Chapter 7

Model Removal

1. **After printing is complete. (3D printer will make a short music).**
   Remove the 4 clips on each corner and remove the printing board from the bed.

2. **Carefully remove the model from the printing board. Try to bend the printing board if needed.**
   (Note: do NOT bend the printing board too much, it will break the printing board)



3. **After remove all the material on the printing board, put it back to top of the bed and use 4 small clip fix the printing board on top of the bed.**

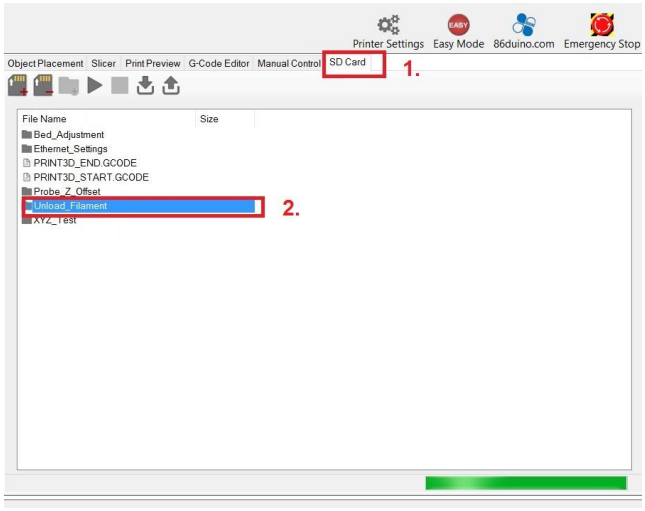
4. **Now it ready for another 3D printing !!**

Chapter 8

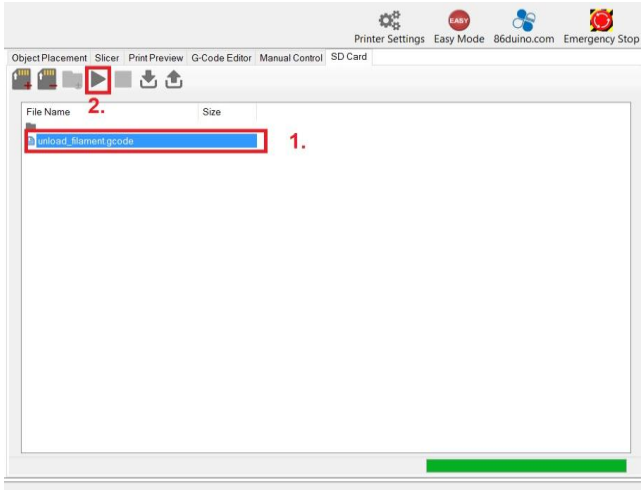
Unload filament from the Extruder

1. **After you done with 3D printing, we recommend unload the filament from the extruder.**

2. **Click on the "SD Card" on the top and then double click "Unload Filament".**



3. **Now click on " Unload Filament" and then click on "Start" on the top:**



4. **It will take about one minute to complete the process, the filament will unload automatic. Just push the spring up to pull down the filament completely from the feeding hole.**