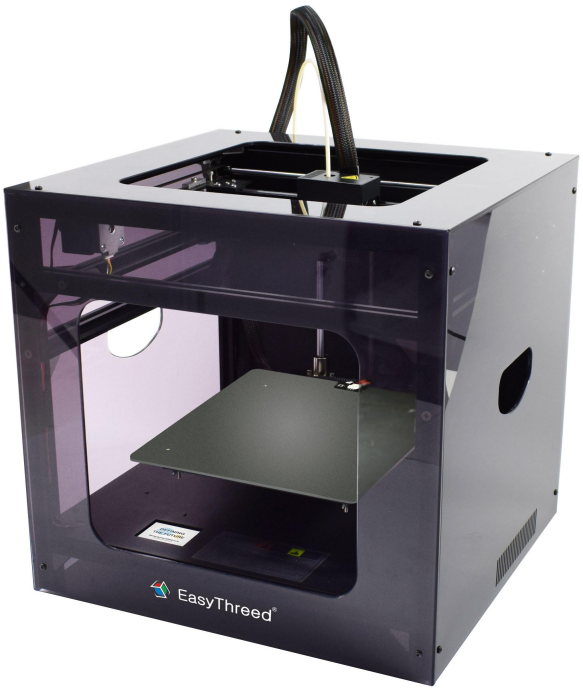
# QUICK START GUIDE

VERSION 1.3




## ELITE 3D PRINTER

EasyThreed®

Please read this User's Manual carefully before use.
Please keep this User's Manual properly for future reference.
Pictures are for reference only, subject to our available products.

# 1 Table of Contents

# 2 SAFETY INSTRUCTIONS

Before installing and using this machine, make sure to read the following contents. Please do not use this machine with the methods not described in this User's Manual. Try you best to avoid possible physical injury and property losses.

## 2.1 Machine placement

- When moving the machine, pay attention to handle it gently to avoid touching the interior structure of the printer.
- This machine is suitable for placed in a ventilated, cool, dry and dustless environment.
- When using the printer, pay attention to the heat dissipation of its surrounding environment and avoid placing it on thick carpeting or close to wall.
- Please do not put the machine near explosives and high heat sources.
- Please do not put this machine in an unstable working environment or a working environment with large vibration.
- Please do not pile weights on this machine.

## 2.2 Specification for use of power supply

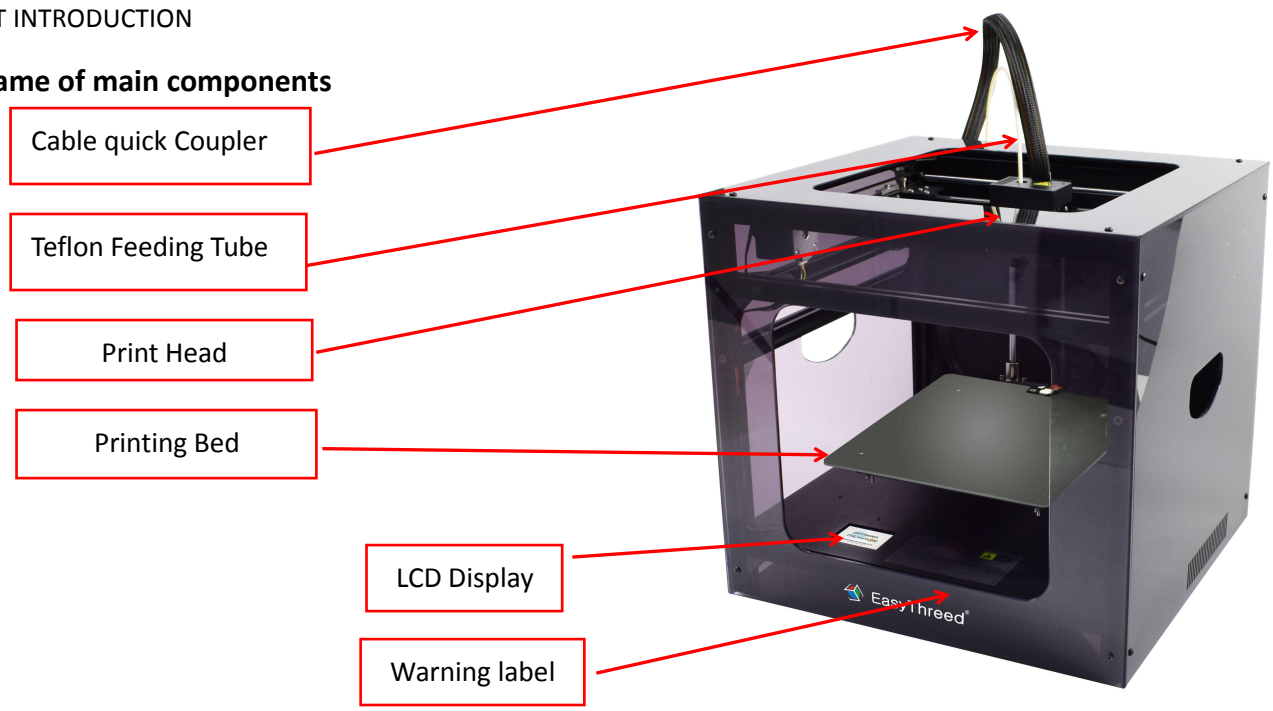
- Please use the power cord supplied with this machine.
- This machine applies to 220V power supply.
- Please do not plug and unplug the power connector with wet hands.
- Please make sure to insert the plug completely into the socket.
- Please do not deliberately pull and excessively bend the wire supplied with this machine to avoid open circuit or short circuit.

## 2.3 Instructions during printing

- Please do not operate this printer in the absence of personnel supervision.
- During the printing process and right after the printing process, please do not touch the interior structure and accessories of the printer to avoid scalding.
- If the printer discharges smoke when printing, please turn off power switch immediately to stop printing and contact the dealer.

PRODUCT INTRODUCTION

## 2.4 Name of main components




## 2.5 Basic Parameter

- **Print parameters**

  **Working environment** - Working temperature: 5 °C- 35°C, Relative humidity: 30%-90%

- **Electric parameters**

  Power input: 110-240V AC, 50/60Hz;

  Power output: 24V/DC, 8A

  Maximum power: 350W

| | | | |
|---|---|---|---|
| Nozzle diameter | 0.4mm | Print material | PLA/ABS |
| Extrusion temperature | 180-240°C | Recommended print head temperature | PLA: 190-210°C<br>ABS: 210-230°C |
| Bed temperature | 0-100℃ | Recommended bed temperature | PLA:50-70℃<br>ABS:90-100℃ |
| Print speed | 10-60 mm/S | Layer thickness | 0.05-0.2mm |
| Molding size | L190*D190*H180mm | Machine size | D440 x W420 x H420mm |
| Compatible systems | Windows | Connection | SD Card USB connection for printing |
| 3D format supported | STL,OBJ | Print conversion software | EASYWARE, CURA |
| Machine recognition format | gcode | Net weight of the product | 18Kg |

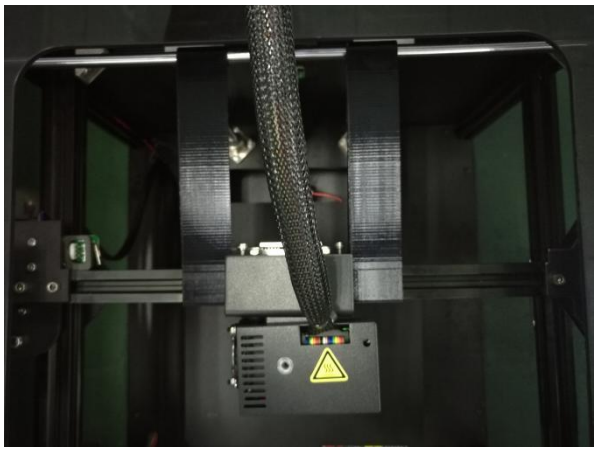
## 3 UNPACKING AND INSTALLATION

1. Open the packing box and check if it is sealed.

2. Unwrap the packing box to take out the manual and check if the accessories are complete.

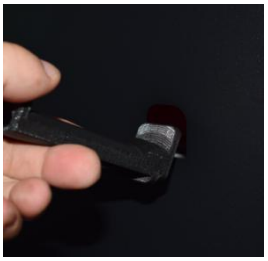
3.Take out the top accessory box and then take out 3D Printer. Remove all packing foam and put printer on a level table.

4. Remove the 2 clips inside the printers.



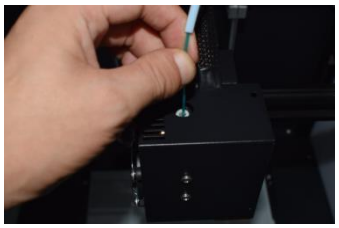
5. Fix the material holder onto the 3D printer. Take out the printing Filament and hang them on the material rest.

Rocker arm



6. Put the material through the Teflon hose.

Teflon hose

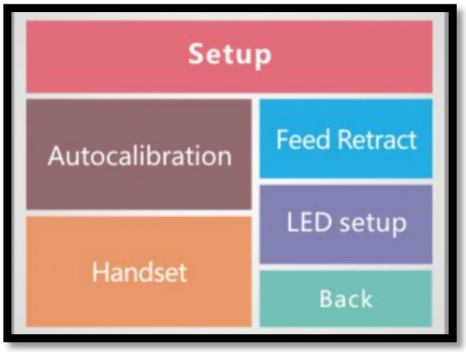


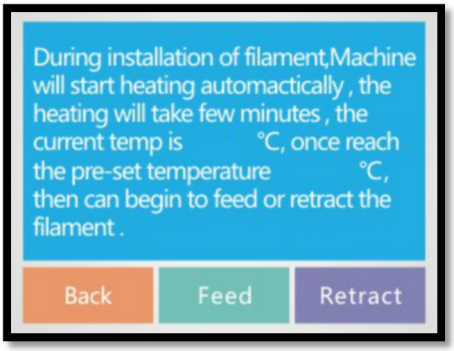
## 4 INTRODUCTION OF STARTING UP THE PRINTER

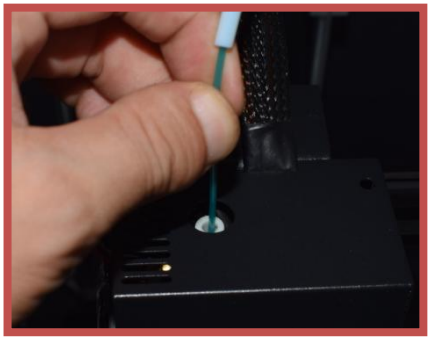
**4.1** Plug the power cord->Insert SD card->Power Switch on. The 3d printer starts up, as follows,


**4.2** Touch LCD Display, goes to operation page, then touch setup, it comes the following.

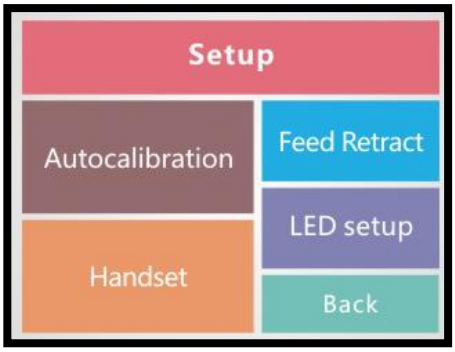

**4.3** Click setup, then click Feed/Retract, goes to Filament operation page, Put filament to the hose, Once reach to the preset temperature, then click Feed, filament comes out from nozzle, means feed successfully(if need retract, once temperature attains to preset temperature, then click retract, filament comes out form the hose, means retract successfully). Then click back button, back to the setup page.



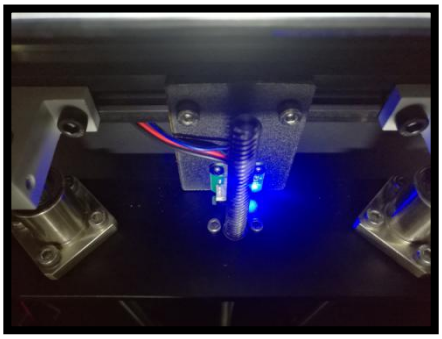



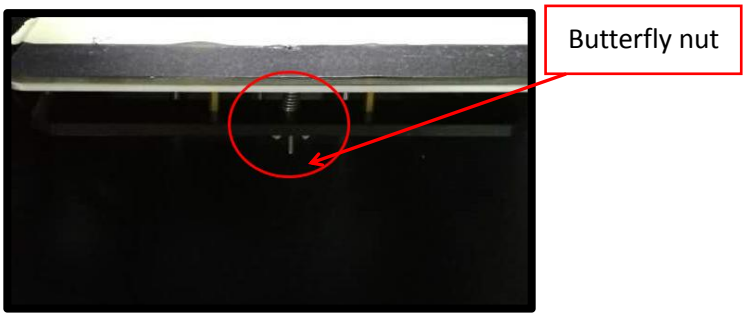



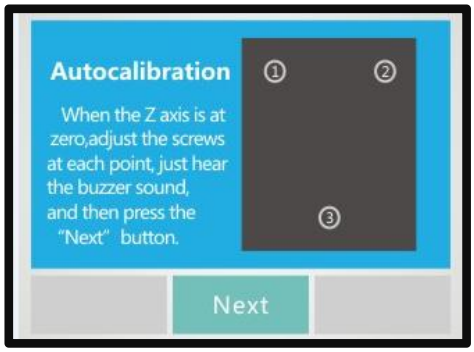
**4.4** Click setup, then click auto calibration, it goes to auto calibration page. Now machine is warming up to auto calibration.

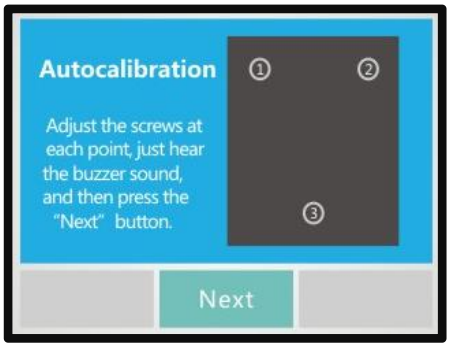



**4.5** Once print head attains pre-set temperature, the printing bed will go up to touch the limited switch of Z axis, then its light of limited switch is on. then twist the butterfly nut under bed according to the screen prompt(twist the screws till hear the buzzer sound then press the next button,Then press next button). Till all 3 points complete calibrating .

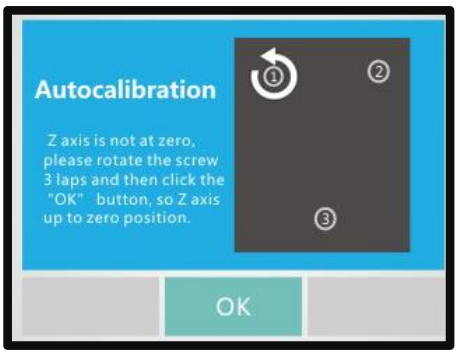


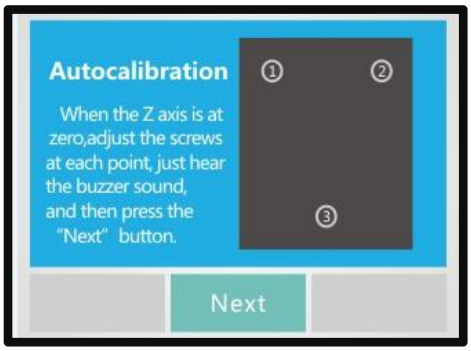


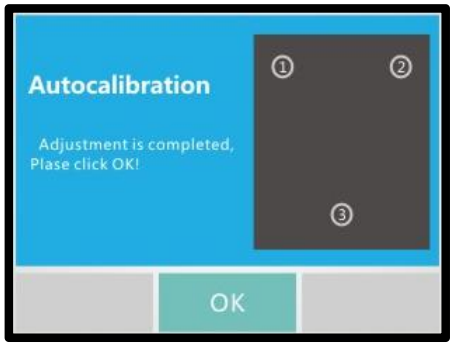




**4.6** If the indicator light of limited switch is NOT on, then twist the butterfly nut under bed 3 laps according to the direction in the screen. Then the Z axis is at zero point. Then goes to repeat the above steps



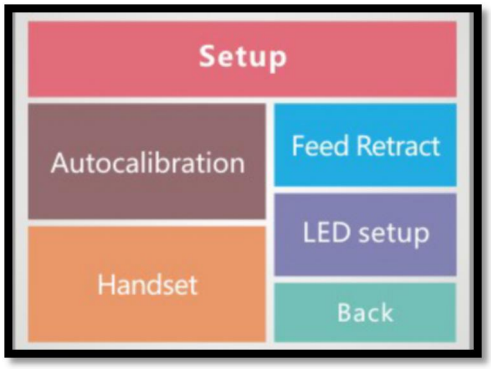



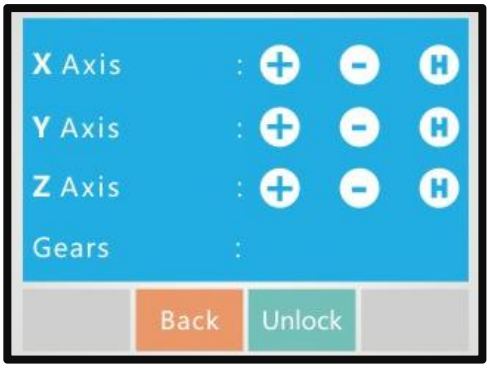

**4.7** Once all the 3 points completed, then press ok button. The operation page goes back to home page.



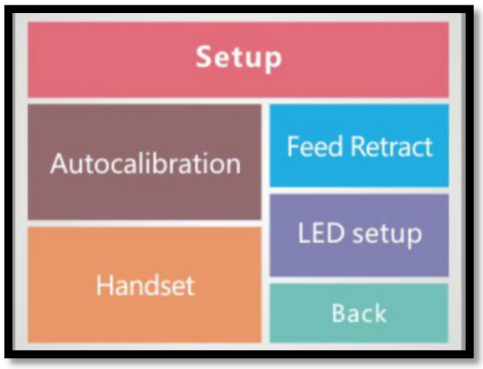

Here are the means of the other screen page.

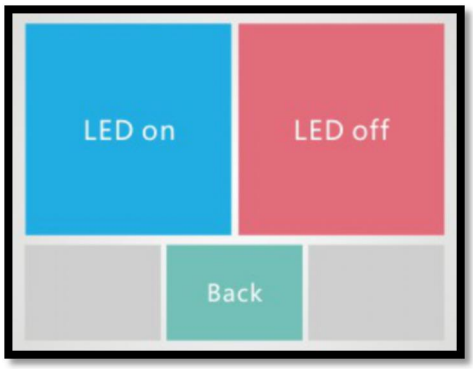
● Click handset for moving the print head. goes to XYZ adjustment operation page, click back after operation completed. “+” means the forward direction ，“-”means the reverse direction，“H”accordance axis to be zero，“Back”mean to the setup auto page， “Unlock”means unlock the motor and can move by hand.



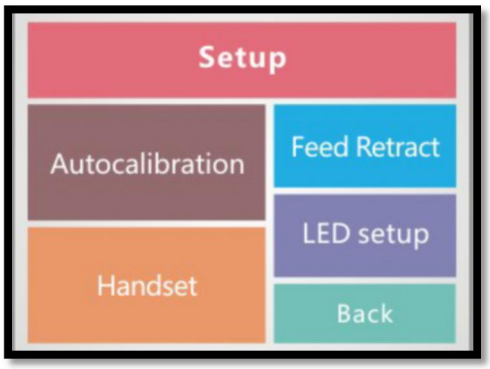




● Click LED Setup, goes to LED operation page, click back after operation completed. Then click back again to the home page.



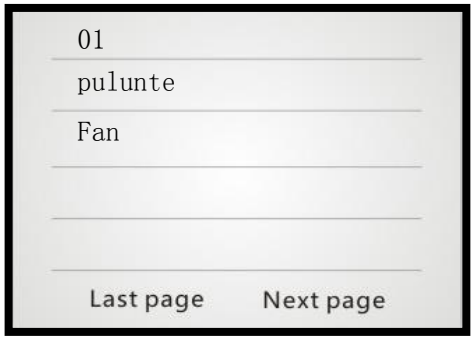

● Click help goes to help operation page, click back after operation completed and goes to home page.

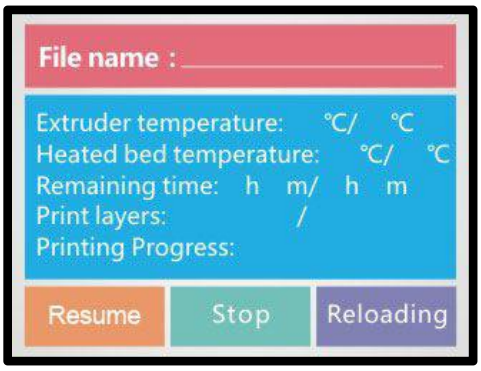




## 5.0 Printing

① Select the Model icon to go to Model page, select the desired model to print from the list. It takes a few minutes to wait for the temperature goes to the preset temperature. Once it reach, it would start to print automatically

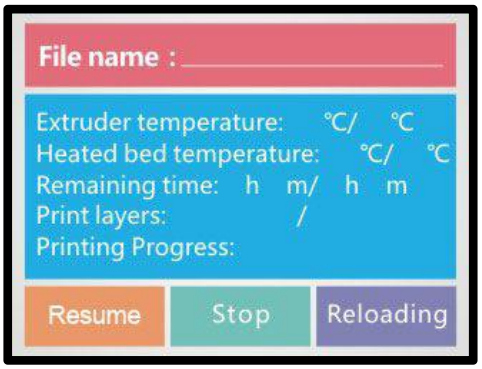



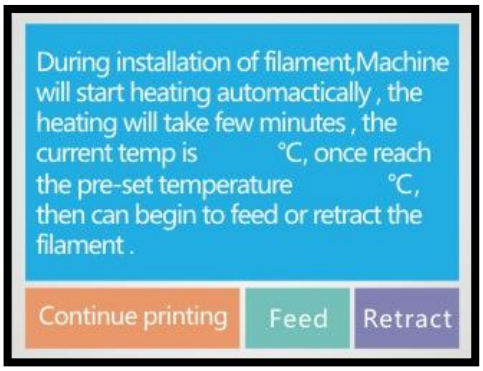





② Reloading filament during printing.

Once click reloading button, the printing would be pause and goes to the reloading page, once reach the preset temperature, click Retract, the filament would come out from the print head. Then put filament into the hose, once temperature reach to the preset temperature, click Feed, material will feed successfully.then it will go on printing after clicking continue printing.




## 6 Instruction of LCD Display

The above images shows the common control function, Customer could adjust per their own need, if any questions, please contact our after-sales department.

## 7 MAINTANANCE

- Do not try to use the methods those not described in this manual to disassembly or modify this machine, in order to avoid damage to the printer or other more serious accidents.
- When power is cut off, regularly clean the printer with a cloth to wipe off dust and residue. If a wet cloth is needed, do not use flammable solvents to touch the internal circuit of the printer to avoid fire or electric shock.
- After printing, try to discharge the residual print material in the nozzle and the extruder to avoid the nozzle from

blockage when printing for the next time! This is the basic maintenance for a 3D printer.

- The guide rail can be added with engine oil for one time every half a year for anti-rusting and lubrication.
- Recommended temperature for the working environment: 5℃-30℃, do not air the machine body with a fan during the printing process.
- Recommended humidity for the working environment: 20%-80%.

## 8 LIST OF ACCESSORIES

| Directory | 1. Print material | 2. Tweezer | 3. Power cord | 4. Scraper |
|---|---|---|---|---|
| Quantity | 1 roll | 1 pcs | 1 pcs | 1 pcs |
| Remark |  |  |  |  |
| **Directory** | **5. Diagonal Plier** | **6.Carder reader** | **7. SD card** | **8. USb cable** |
| Quantity | 1 pcs | 1 pcs | 1 pcs | 1 pcs |
| Remark |  |  |  |  |
| **Directory** | **9. Small wrench and Screws** | **10. .Filament holder** | **11.Instruction manual** | |
| Quantity | 1 set | 1 Pcs | 1 pcs | |
| Remark |  |  |  | |

## 9 FAQ

**Q1: Why is the printing model not adhesive to the printing bed?**

A1: The nozzle is too far away from the bed, Adjust the distance between them to assure that the distance is just enough to get through a calibrated film.

**Q2: Why the filament do not come out from the nozzle?**

A1: Check the filament feeder, heating and feeding filament, if there is external gear structure feeder, then to observe if

gear rotates or not, if there is built-in stepper motor feeder, then to observe if the motor is vibrating and working sound or not, if no. Then check if the wire of filament feeder and motherboard is completed or not. Please repair timely if its in-completed.

A2, Check temperature.

Printing nozzle temperature of PLA material range s from 195℃-210℃.

A3, Check if the nozzle is blocked.

If PLA filament is already heated to then use force to push the filament, if it does not come out, then disassemble the nozzle and clean it or replace the nozzle.

A4, Check if nozzle is too close to the platform, if yes, then filament can not come out, so adjust the distance between platform and nozzle to assure it can just enough to get through a calibrated film.

**Q3, The problem of print model misplaced**

A1, Mistake of slicing, re-slice, Or the software to reproduce GCode printing.

A2,The model drawings problem. If the model still misplaced after re-slicing the models, then its drawing has problem.

A3, the nozzle is forced to stop printing Path:

First, You can not touch the moving nozzle with your hands during the printing process. S

A4, motherboard problem:

If the above problems can not solve the dislocation, and if all dislocation happens at the same height of any model then replace the motherboard. There is big gap between actual and theory printing accuracy

**Q4, There has lots of filament piled up on the model surface,**

A1, nozzle temperature is too high, consumables melt too fast to cause overflowing .

A2, The filament flow is too large, Software has filament flow settings, the general default value is 100%. Please down it to 80% printing.

**Q5, Poor surface after removing the support of FDM printing technology.**

A1, The support can be set up to the 10% density. Then its easy to remove the support.

A2, can be slightly trimmed with a grinding tool, and then rubbed with a towel which dipped into acetone. Note to Wear gloves, do not wipe too long so could avoid affecting the appearance and size of the model.

**Q6, The inappropriate distance between the platform and nozzle.**

The first layer is not formed because of large distance, if the distance is too small, the nozzle will scratch the platform, . The distance between the nozzle and the platform must be adjusted to get through a calibrate film.

**Q7. Printing supplies difference:**

With the maturity of 3D printing, FDM printing supplies on the market is rich and multiple color, But the compatibility of supplies and printers is particularly important.

**Thank you for choosing EasyThreed 3D Printer!**

**Shenzhen EasyThreed Technology Co., Ltd.**

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