

User Manual



If you have any problems with the product, you can obtain relevant services through the following channels:

Facebook after - sales group: www.facebook.com/groups/anet3dprintersupport

Anet official website: www.anet3d.com

After - sales service email: anet@anet3d.com

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Preface

Dear customer:

Thanks for choosing and using Anet 3D printer. For your convenience, please read the instructions carefully before using them and follow the instructions strictly.

Special Version:

1. All the contents in this manual have been checked carefully. If there is any misprint or misunderstanding of them, Anet reserves the right to interpret it.
2. This user manual is for reference only and does not constitute any form of commitment.
3. It is recommended to use Anet original filament.

1. Use Instruction

In order to prevent damage to you and others in the process of using, Please be aware of the following:

- Please do not attempt to use the machine in any way undescribed in the instructions to avoid accidental personal injury and property damage.
- Please do not place this machine near inflammable and explosive materials or high heat sources.

Please place this machine in a ventilated, cool and dust free environment.















- Please do not place the printer on a larger vibrating or other unstable platform. The shaking of the machine will affect the printing quality.
- Please do not replace the power line of other products during installation. Please use the original power line supplied with the machine. The working power supply uses 115V-230V AC. The power plug must be plugged into the three holes socket with ground wire to avoid damage to components or accidents such as fire and electric shock.
- Please do not touch the nozzle and heating bed during the printer working to prevent high temperature burns and personal injury.
- Please do not wear gloves or wrappers when operating the machine in case the movable parts cause entanglement and cutting damage on the human body parts.

- After printing, please use the remaining temperature of the nozzle to clean up the filament on the it with the help of tools. Do not touch the nozzle directly with your hands during cleaning to prevent scalding.
- Please use a shovel carefully to avoid personal injury when removing model.
- Please often do product maintenance. In the circumstance of power off, please regularly clean the printer body with dry cloth to wipe away dust and bonded printing materials, foreign objects on guide rails, and lubricating oil is recommended for sliding parts, screw rods and bearing parts.
- Children under 14 years old or people above 60 years old, please use this machine under the adult people to avoid personal injury.
- Some filaments will produce slight odor but it won't make people feel uncomfortable , so it is recommended that you use A8 Plus in a well-ventilated environment.
- Self-disassembly or modification may cause damage or abnormal performance, and your machine will no longer enjoy warranty service.
- It is recommended to use E16 in a well-ventilated environment. Please cut off the power supply after using.

2 Installation Instruction

- Please make sure the packing is intact before receiving the goods.
- After unpacking, please check carefully whether the parts list is consistent with the physical parts.
- If you have any problems, please contact your supplier or Anet in time.
- Pictures in this manual are for your reference ,please take the object as the standard.

2 Spare Parts List

| No. | Picture | Name | Qty. | No. | Picture | Name | Qty. |
|-----|---|--|------|-----|---|---|-------------|
| 1 |  | Chassis kit | 1 | 10 |  | Filament holder kit 2 | 1 |
| 2 |  | Vertical frame kit | 1 | 11 |  | Power line | 1 |
| 3 |  | Screw bag (T nut *3, M4*8 screw*3, M5*20 cylindrical head screw*4) | 1 | 12 |  | Line bag (Heating bed line \ X, Y, Z1, Z2 motor line \ X, Y, Z limit switch line) | 1 |
| 4 |  | Limit switch bag (Limit switch*2, KB2.3*12*2) | 1 | 13 |  | Black winding pipe bag (R clip, ribbon, fixing clip, winding pipe) | 1 |
| 5 |  | Power supply kit | 1 | 14 |  | Protective tube bag (10A 15A) | 1 (Gift) |
| 6 |  | Mainboard kit | 1 | 15 |  | Rubber finger cot | 1 (Gift) |
| 7 |  | Display screen | 1 | 16 |  | Tool bag (Hexagon wrench bag, transparent ruler, plier, screwdriver) | 1 (Gift) |
| 8 |  | Display screen holder | 1 | 17 |  | A8 Plus electronic data (TF card, reader) | 1 (Gift) |
| 9 |  | Filament holder kit 1 | 1 | 18 |  | PLA filament*10m | 1 (Gift) |

Attention: The gifts in the parts list and toughened glass do not enjoy the warranty policy.

4 Parameter

| | |
|--|--|
| Model: A8 Plus | Nozzle diameter: 0.4mm |
| Layer precision: 0.1-0.4mm | Product dimensions: 612*462*573 mm |
| Printing speed: 40-120mm/s | Product weight: 10kg |
| XY axis position precision: 0.015mm | Packing dimensions: 600*570*215mm |
| Z axis position precision: 0.004mm | Packing weight: 12.8kg |
| Printing material: ABS, PLA, HIPS etc. | Build volume: 300mm*300mm*350mm |
| Filament tendentiousness: PLA | Display: LCD 12864 |
| Filament diameter: 1.75mm | Offline printing: Yes |
| Software language: English | Support file format: STL, G-Code, OBJ |
| Moulding support automatically: Yes | Operating systems: Windows, MAC |
| Slice software: Cura | Environmental requirements: Temperature 10-40℃ Humidity 20-50% |

5 Name of Parts

6. Machine Installation

Step 1



M5*20

Before assembly

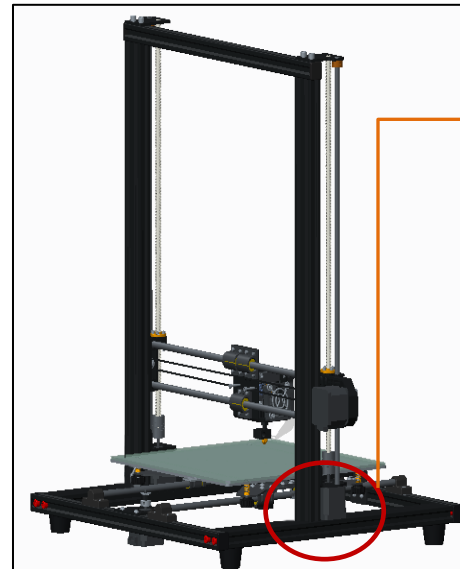


Screw holes are installed on aluminum profile



| No. | Name | Qty. |
|-----|----------------------------|------|
| 1 | Chassis kit | 1 |
| 2 | Vertical frame kit | 1 |
| 3 | M5*20 Socket hexagon screw | 4 |

After assembly



Attention:

1. The vertical frame kit is placed on the chassis kit, aligned with the hole position on the aluminum profile of the chassis, and the vertical frame and chassis are fixed with 4 M5 * 20 screws.

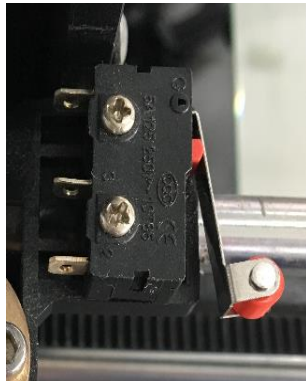
2. Corner bracket installation: tighten the screw with a wrench, the T nut will rotate 90 degrees, the corner bracket is fixed.

Step 2

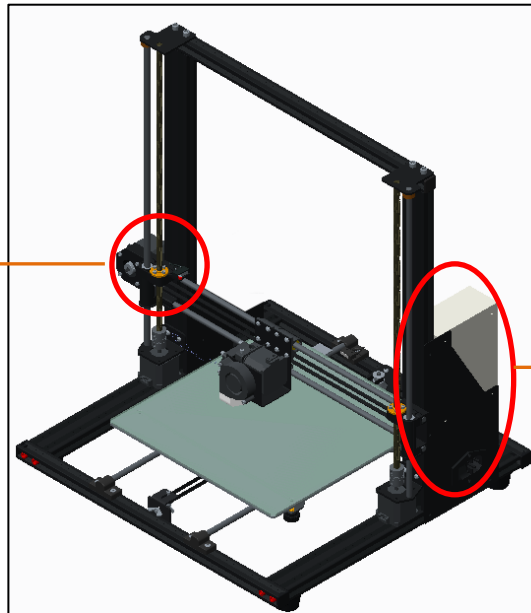


| No. | Name | Qty. |
|-----|---|------|
| 1 | Power supply kit | 1 |
| 2 | X Limit switch | 1 |
| 3 | KB2.3*12 Cross recessed countersunk screw | 2 |

Before assembly



After assembly



Attention:

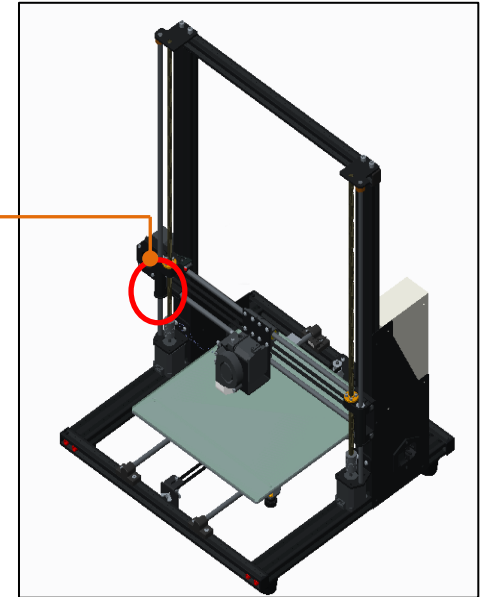
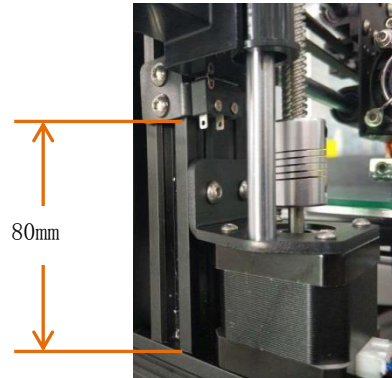
1. Install the X axis limit switch as shown above.
2. Install the power supply kit on the aluminum profile card slot.

Step 3

| No. | Name | Qty. |
|-----|-------------------------|------|
| 1 | Z axis limit switch kit | 1 |

As shown in the picture, install the limit switch at the Z1 axis.

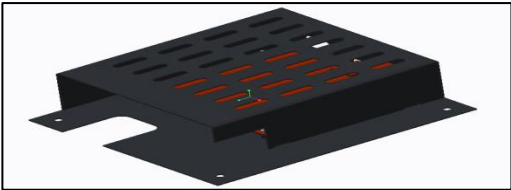
The installation position of the Z axis limit switch is 80mm away from the Y axis profile



Step 4

| No. | Name | Qty. |
|-----|---------------|------|
| 1 | Mainboard kit | 1 |

Before disassembly



After disassembly



Attention:
Split the mainboard kit, retain the 4 M3 * 6 hexagon socket screws.

Step 5

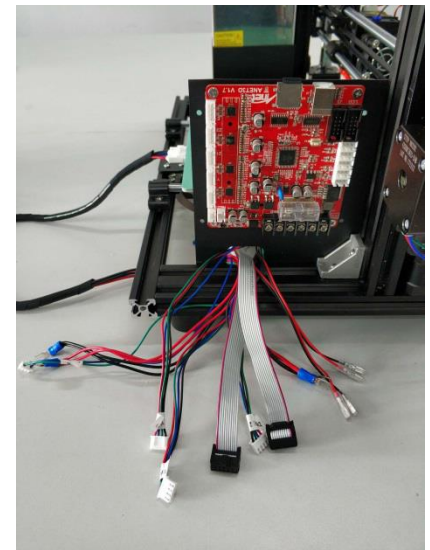
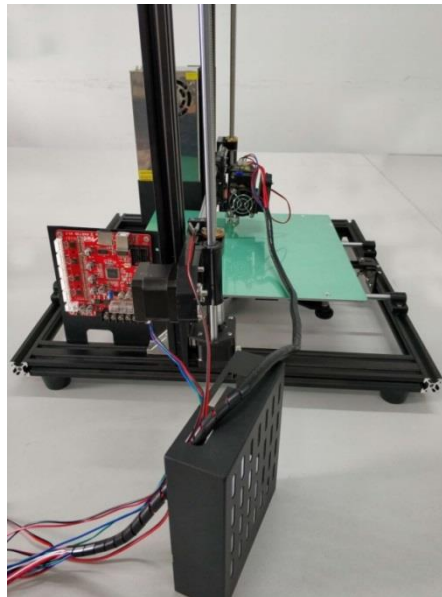
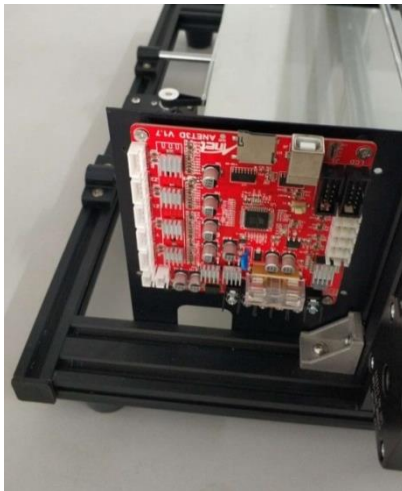
| No. | Name | Qty. |
|-----|----------|------|
| 1 | Line bag | 1 |

1. Disassemble the mainboard kit shell and fixed it into the groove.
2. Machine wiring: the wire of the extruder is wrapped with winding pipe, then it passes through the wire hole on the shell together with the left X axis limit switch wire and the X axis motor wire(as shown below picture).

Please pass the lines of extruder, X axis limit switch and X axis motor through the square hole on the mainboard, as shown in the picture:

Pass all other wires through the holes under the mainboard (pay attention to the end that passes through matching the mainboard socket)

Fix mainboard on the groove



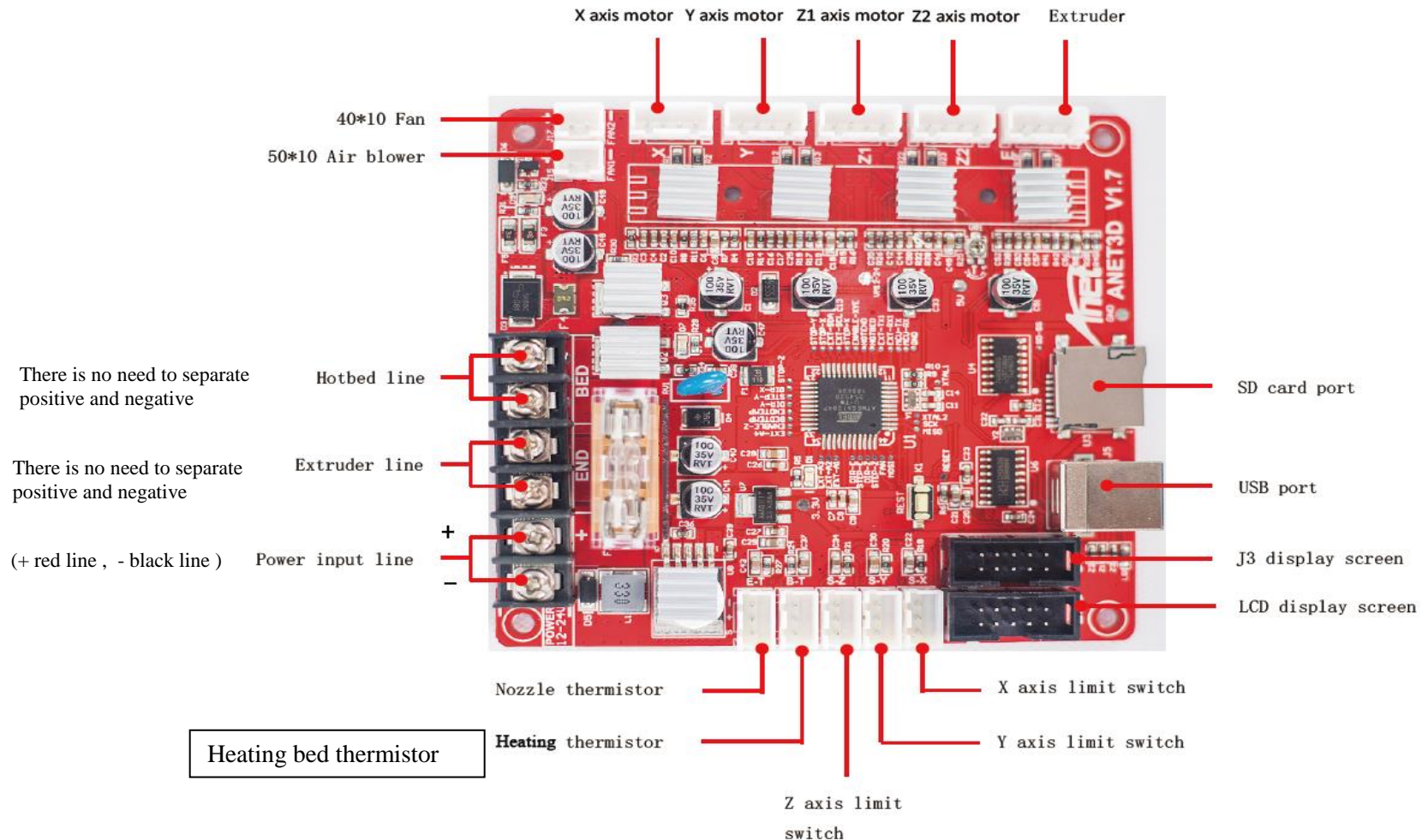
Step 6

According to the schematic diagram of the line port and the label of the wiring, find the corresponding wiring and plug in all the wiring, the cable with the word "-A" is connected to one end of the mainboard.

Wiring sheet :

| Name | Cable label | Mainboard port | Name | Cable label | Mainboard port |
|----------------|-----------------------------|----------------|---------------------|----------------------------|----------------|
| Z axis motor | X-Motor-A | X | X axis limit switch | X axis limit switch line-A | S-X |
| Y axis motor | Y-Motor-A | Y | Y axis limit switch | Y axis limit switch line-A | S-Y |
| Z1 axis motor | Z1-Motor-A | Z1 | Z axis limit switch | Z axis limit switch line-A | S-Z |
| Z2 axis motor | Z2-Motor-A | Z2 | Heating bed | Heating bed-A | BED |
| E axis motor | E-Motor-A | E | | Thermistor-A | B-T |
| Extruder | Extruder thermistor-A | E-T | TF card | | TF card port |
| Extruder | Extruder heating tube-A | EDN | power supply | Power supply line-A | + - |
| Display screen | LCD grey ribbon cable -A | LCD | Fan | Fan with line-A | FAN2 |
| Display screen | J3 grey ribbon cable-A | J3 | Air blower | Air blower with line-A | FAN1 |

Schematic diagram of line port installation



1. Except that the electronic wire shown in step 6 passes through the jack at the upper end of the mainboard, the remaining electronic wires are all pulled out from the holes under the mainboard, and the machine is connected from below the machine to avoid affecting the operation of the machine.
2. When all wiring is plugged in, please remove the zip ties on the black belt, plug in the power line, turn on the machine for trial operation (please refer 7.2 First Printing), and then install the mainboard shell after everything is normal.

Step 7

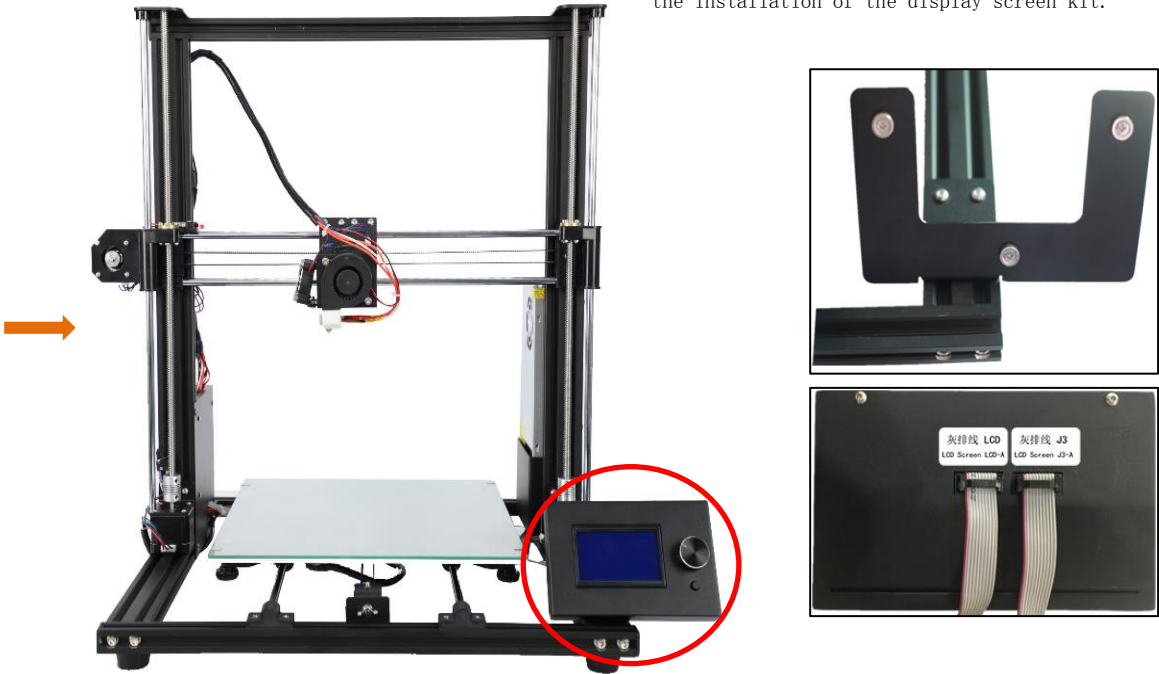
| No. | Name | Qty. |
|-----|---------------------|------|
| 1 | Display screen base | 1 |
| 2 | Display screen kit | 1 |

Before assembly



After assembly

After the installation of the display screen is completed, place it directly on the magnet to complete the installation of the display screen kit.



Step 8

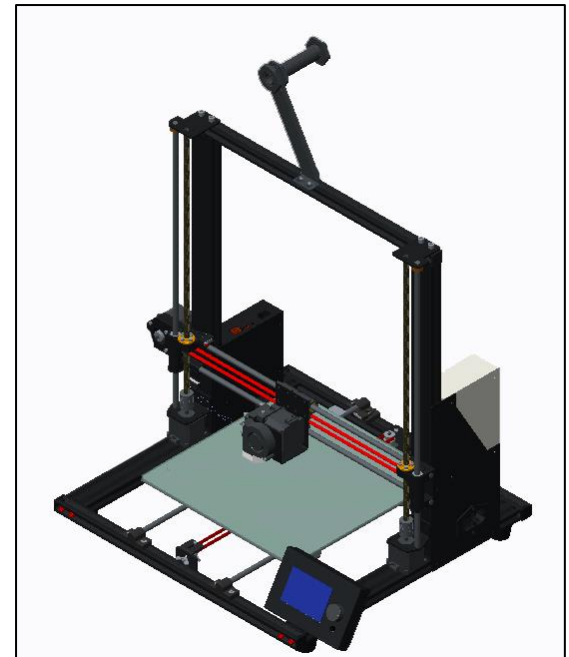


| No. | Name | Qty. |
|-----|---------------------------|------|
| 1 | Filament holder | 1 |
| 2 | M4*8 Hexagon socket screw | 2 |
| 3 | M4 T nut | 2 |

Before assembly

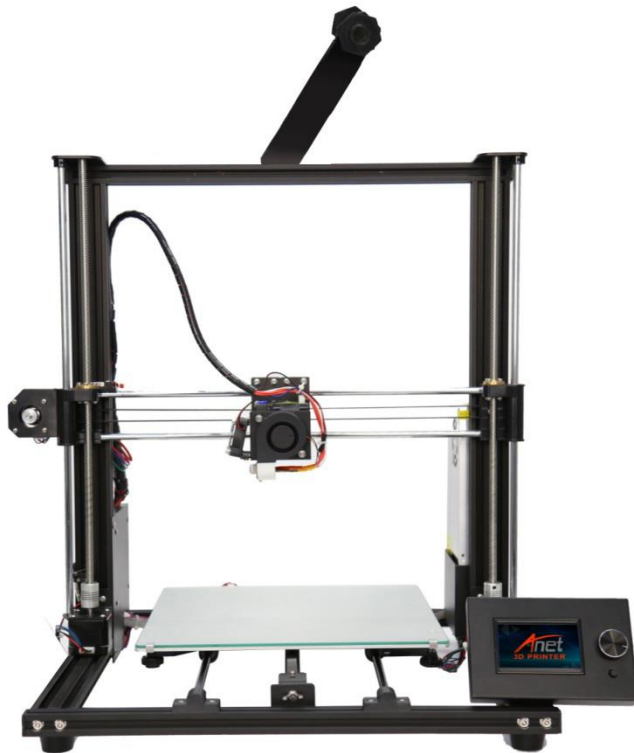


After assembly



Step 9

Schematic diagram of product installation completion:



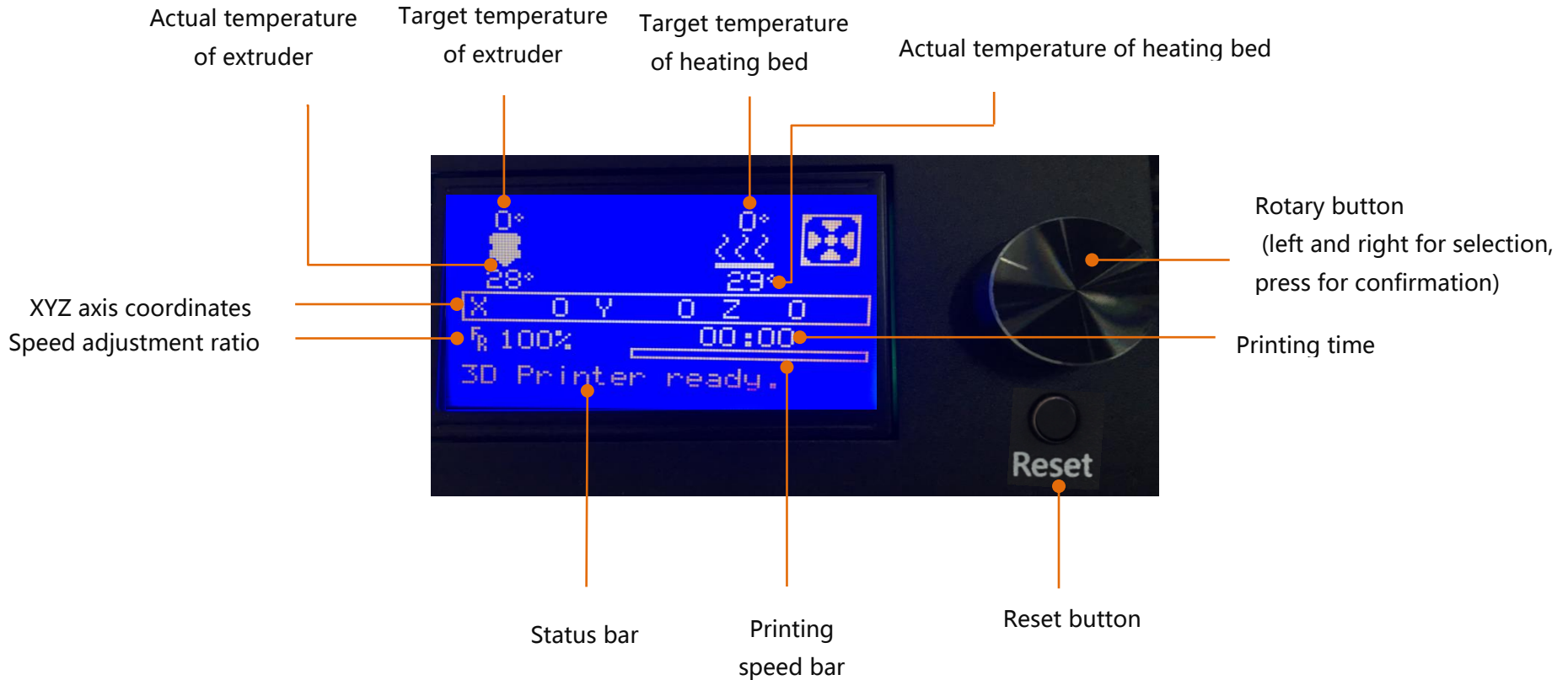
Front



Back

7 Machine Function Introduction

7.1 Operation Interface



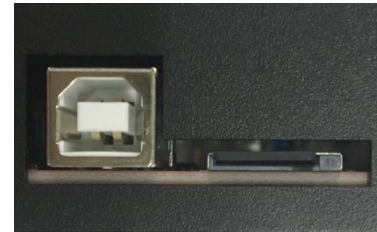
7.2 First Printing

7.2.1 Install TF Card

Insert TF as shown in picture 2



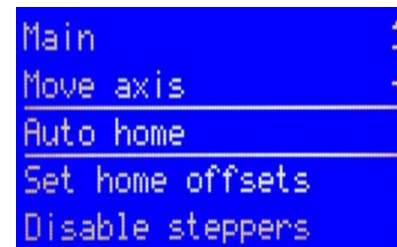
TF card



TF card installation completed

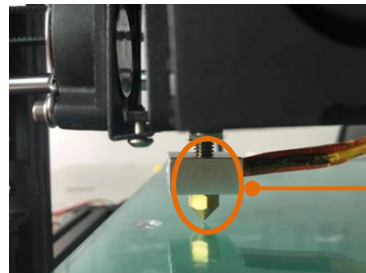
7.2.2 Machine leveling

1. **Auto home operation:** Adjust the spring around the heating bed to the tightest (counterclockwise), press the rotary button to enter the main menu, select “Prepare” → “Auto home”, the machine begins to move toward the position of the limit switch until it stops moving after touching the limit switch.



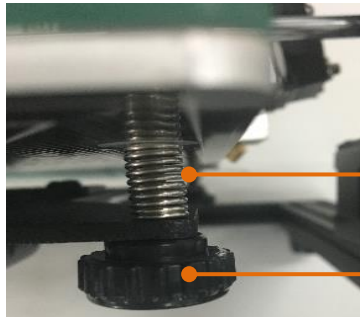
2. Disable steppers operation: Press the rotary button to enter the main menu, select “Prepare” → “Disable steppers” .

3. Manual leveling: Move the nozzle to the heating bed, and observe the distance between the nozzle and the heating bed from the front of the machine. If the distance between the nozzle and the four corners of the heating bed is 0.1mm (the thickness of a piece of A4 paper, A4 paper can pass through the gap and feel slight resistance), leveling is not required. If the distance between the nozzle and the four corners of the heating bed is greater than or less than 0.1mm, adjust according to step 4.



The distance between the nozzle and heating bed

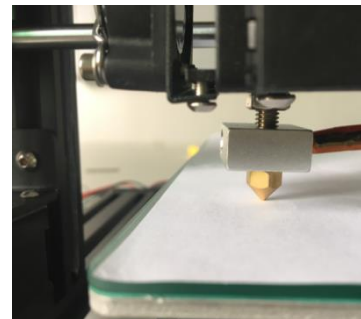
4. Adjust the distance: Fine - tuning the "distance" to make its size about 0.1mm meet the printing requirement. Move the nozzle to the other three corners of the heating bed, and sequentially adjusting the spring compression of the four corners of the heating bed in one direction (clockwise or counterclockwise), so that an A4 paper (about 0.1mm) can pass through this distance and feel a slight resistance, and there is no scratch on the platform when moving the extruder.



Adjust spring

Nut

Attention: turning the nut counterclockwise is tight and turning the nut clockwise is loose.



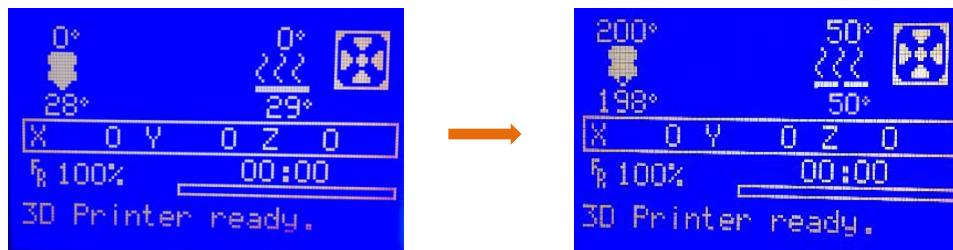
A4 paper can pass through the distance between the four corners of the heating bed and nozzle, and feel slight resistance.

7.2.3 Load Filament

1 . Perheat Machine

Before loading filament, the machine needs to be preheated. The following pictures illustrates PLA filament as an example, and the operation is as follows.

Operating method: Press the knob→ “Prepare” → “Preheat PLA” → “Preheat PLA” , the machine starts to perheat (the main interface shows that the machine is perheat).



The heating bed and extruder reach the target temperature

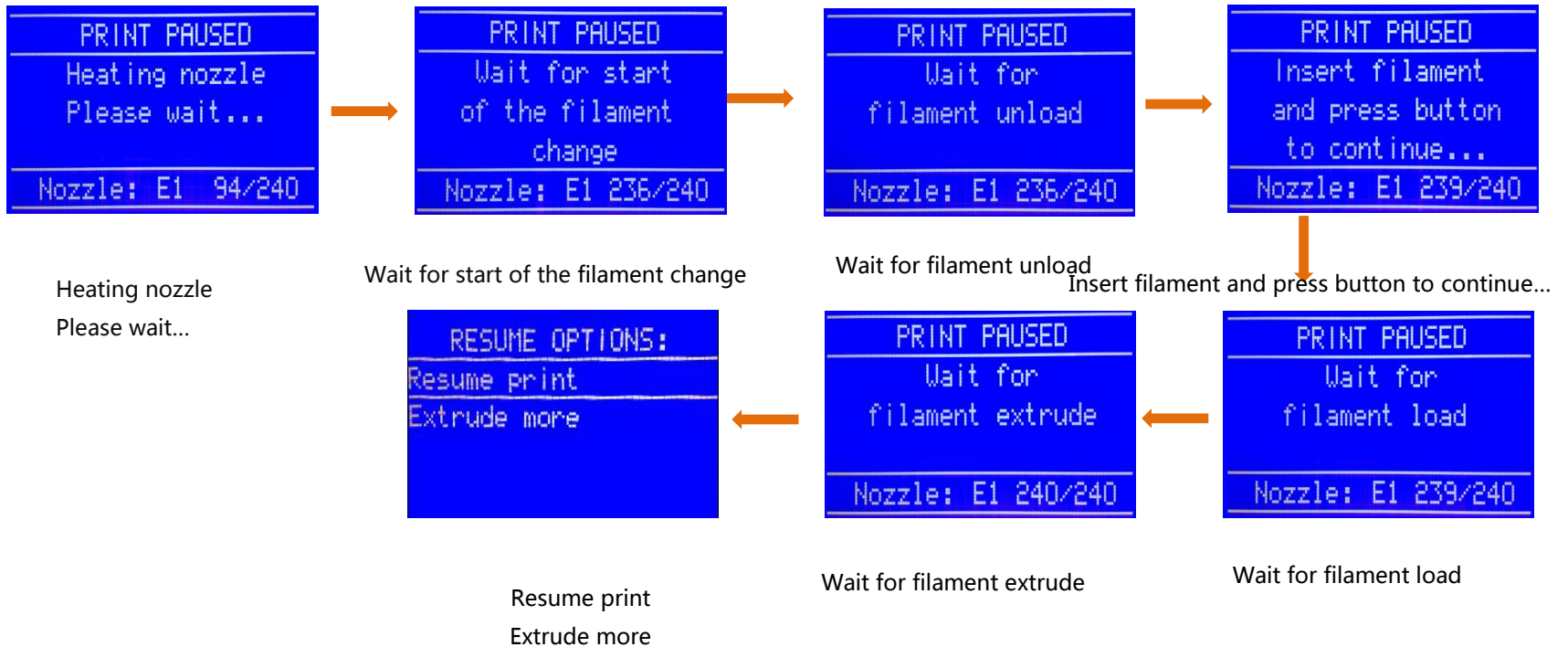
Note: If you want to print with ABS filament, you must select " Preheat ABS" for preheating.

2. Load Filament

Load filament automatically:

1. A roll of PLA filament: Filament specifications: Diameter :1.75mm; Material: PLA ;Printing temperature: 200–230℃;
2. Please press rotary button → “Prepare” → “Change filament”, the main interface will display “Heating nozzle Please wait……”, the interface will display “Wait for start of the filament change” after the nozzle temperature rises to the target temperature → “Wait for filament unload ” → “Insert filament and press button to continue…” → then please press rotary button;
3. Straighten up the filament (or cut the filament into bevels with plier), then pass the filament through the extruder;
4. Meanwhile the main interface will display “Wait for filament load” → “Wait for filament extrude”, please click “Resume print” to start printing;
5. If the nozzle has filament outflow, the installation of filament is successful. If the installation of filament is not successful, please select “Extrude more” to re-load.

Attention: The function of automatic material advance and retreat is carried out according to the steps of material return first and material feed later, when the first printing has not started installing filament yet, please wait for 1 - 3 minutes. After the interface displays “Insert filament and press button to continue” , insert filament into the extruder for automatic feeding.



3 Printing

1. After leveling is completed and the filament is installed successfully, press the rotary button to enter the main menu, press "Print from SD" → "Main" and select the file under "Main" to start first printing.
2. In the process of printing, if you want to pause printing, press the rotary button to enter the main menu, press "Prepare" → "Pause print" to pause printing, and press "Resume print" to resume printing.

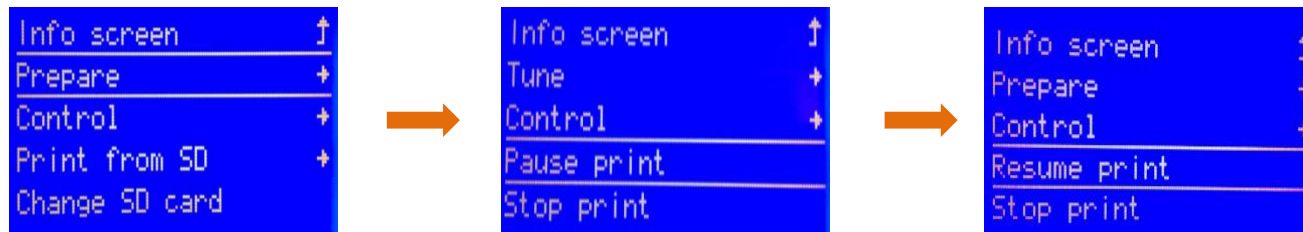
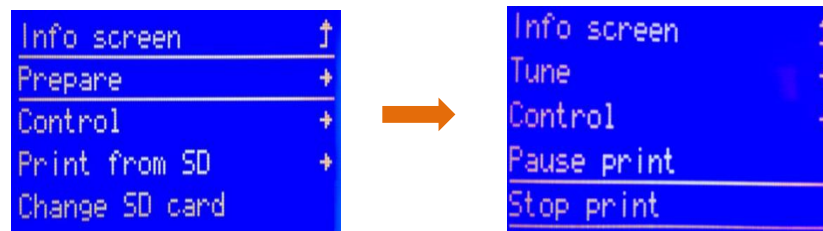


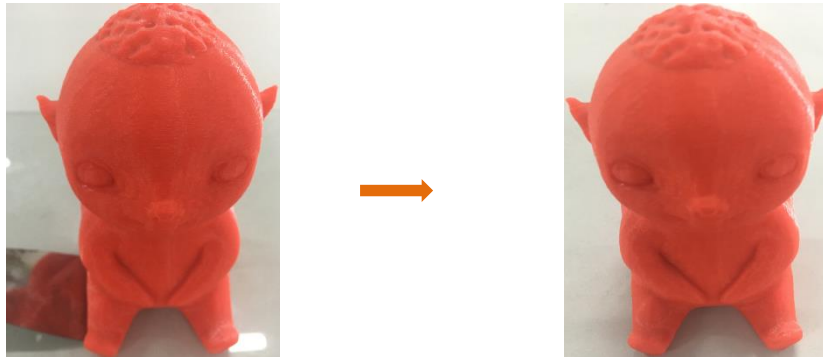
图 24

3. If you want to stop printing during printing, press the rotary button to enter the main menu, press "Prepare" → "Stop print" to stop printing, press the reset button to resume normal operation of the machine and select to reprint the model.



4 Remove Model

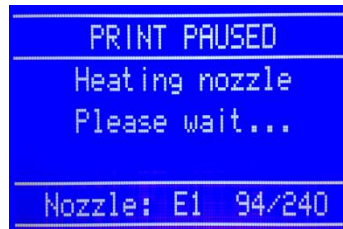
After the model printing is finished, the model is shoved down against the glass surface with a shovel.



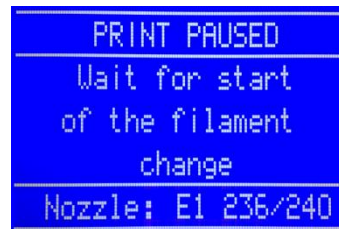
7.3 Unload Filament

Automatic unload filament (taking PLA as an example)

Please press rotary button → “Prepare” → “Change filament”, the main interface will display “Heating nozzle Please wait……”, wait for 1-2 mins, the interface will display “Wait for start of the filament change” after the nozzle temperature rises to the target temperature → “Wait for filament unload”, the machine automatically unload filament, then pulls out the filament in the vertical direction and unload the filament.



Heating Nozzle
Please wait...



Wait for start of the filament change



Wait for filament unload