

Use Instruction

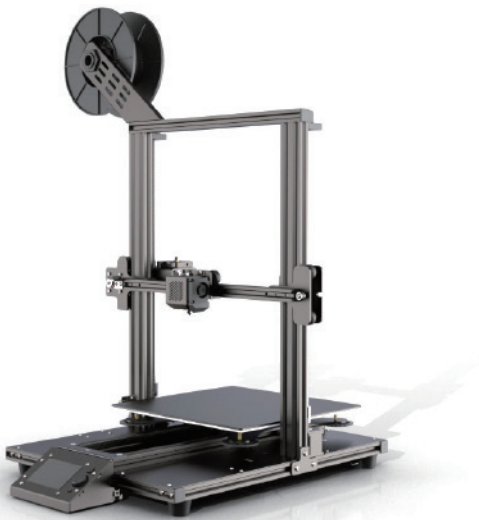
- The printer is a DIY series product, some parts need to be assembled by customers. Take good care of every connection parts. Fixing every connection by glues is recommended.
- Do NOT attempt to use the machine in any way not mentioned in the manual, misuse may cause serious injuries and property damages.
- Keep the printer away from flammable and explosive materials and heat sources. Place the printer in a ventilated, cool and dust free environment.
- Do NOT place the printer on unstable surfaces, the vibration of the machine will affect the printing quality.
- Use only the original power cord supplied with the printer. Check if the power supply matches the input requirements of the printer. Power must be connected to a three-hole socket with earth wire to avoid damages to components or accidents such as fire or electric shock.
- Do NOT touch the nozzle or the heated bed while the printer is operating. Or it may cause burns or injuries.
- Do NOT wear gloves or bracelets when operating the machine, to avoid being caught by the moving parts which may cause crushing and cutting injuries.
- Clean the residues in the nozzle in time after printing. Do not touch the nozzle while cleaning. Or it may cause burns.
- Maintain the machine regularly. Cut off the power before maintaining the machine. Clean the machine body, heated bed, guide rails, robs, etc. with a dry cloth. Apply lubricant to sliding parts, screws and bearing parts.
- Children under 14 or people over 60 should NOT use this printer without assistance and guidance.Or it may cause injuries.
- Disassembly or modification by yourself may cause damage to the machine or abnormal performance, which will prevent you from enjoying the right to warranty or after-sales service.
- Cut off the power supply after use.
- The recommended filament for this printer is 1.75mm PLA. We recommend to use TronHoo official filament.



BestGee T300S Lite User Manual

Thank you for choosing TronHoo 3D printer.
Read this User Manual carefully and thoroughly before operating the printer for the first time.
Take good care of this User Manual.

Get more information from the flash disk in the package. Visit our website: www.tronhoo3d.com regularly to learn more about the latest news and updates.



Gantry	Base	Spool Holder	Screws M5*25 X4 M5*16 X6	Fixed plate X2	FFC	Power Cord 15A, 1 meter	TF Card Pack 8GB TF card + TF card reader
Open-End Wrench 8-10mm	Hex Wrenches X4 1.5mm, 2mm 2.5mm, 4mm	Diagonal Cutting Nipper	Filament 10 meters * 2	Backup Nozzle 0.4mm X2	Backup Screws M3*6 X4	Backup Fuse 5A	Warranty Card

Notice

- For continue product improvement, all the contents in this manual is subject to change without notice.
- All the contents in user manual are provided for reference only. Actual product features and specifications (including but not limited to appearance, color and size), as well as actual display contents (including but not limited to backgrounds, UI and screen snaps) may vary, and should be subject to actual product.
- All data in this manual are theoretical values obtained by TronHoo internal laboratories through tests carried out under laboratory conditions. Actual performance may vary owing to differences in individual products, software versions, application conditions and environmental factors. All data is subject to actual usage.
- If any misunderstanding occurs due to print failure or misunderstanding of the content, we reserve the right of final explanation.

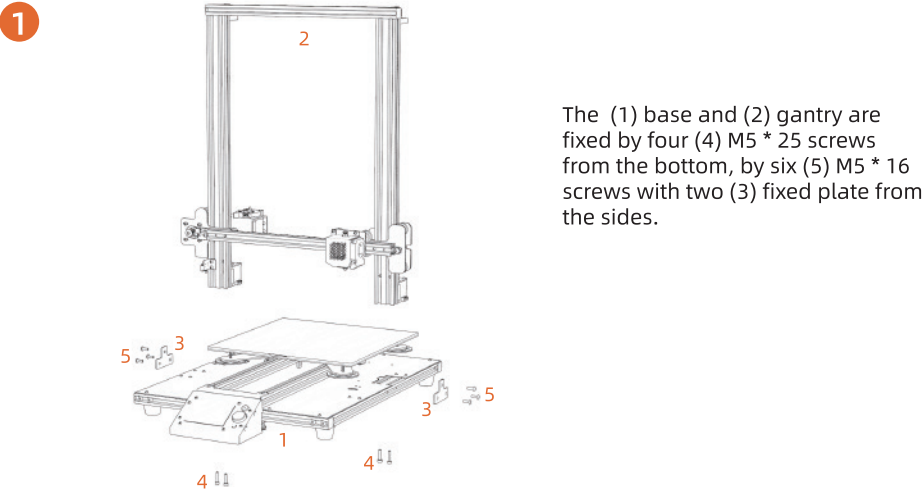


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Specifications

Model	BestGee T300S Lite	Nozzle Travel Speed	up to 200 mm/s
Technology	FDM / FFF	Supported Materials	PLA, ABS, PETG
Build Volume	300 x 300 x 400 mm	Filament Diameter	1.75 mm
Dimensions	480 x 590 x 590 mm	Language	English / Chinese
Package Dimensions	695 x 540 x 260 mm	Nozzle Temp.	up to 260°C
Net Weight	13.5 kg	Heated Bed Temp.	up to 100°C
Shipping Weight	15.5 kg	Connectivity	USB, Micro SD Card
Layer Resolution	0.1 mm	Display	12864 LCD
XYZ Precision	0.05 mm, 0.05 mm, 0.1 mm	Supported File Formats	Gcode, Gco
Print Speed	up to 150 mm/s	Rated Input	100-120 VAC / 220-240 VAC 360W

Setup Manual



The (1) base and (2) gantry are fixed by four (4) M5 * 25 screws from the bottom, by six (5) M5 * 16 screws with two (3) fixed plate from the sides.

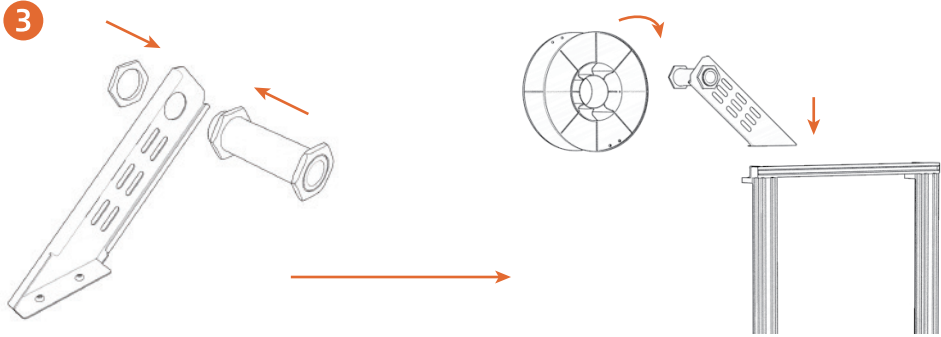
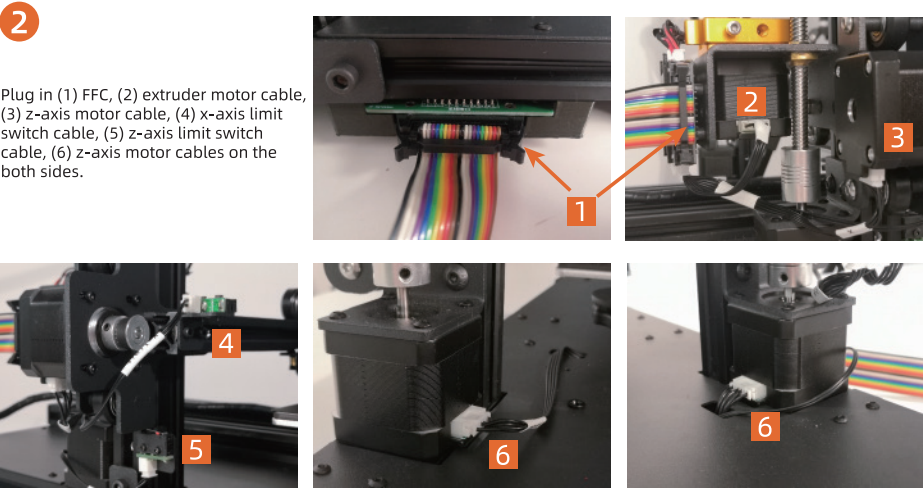


Fig. 1

Fig. 2

- (1) The spool hanging tube is fixed to the spool holder with two M30 screw nuts (Fig. 1).
- (2) The spool holder is fixed onto the frame by the T-shaped nut (Fig. 2).
- (3) The spool of filament is hung on the spool holder.

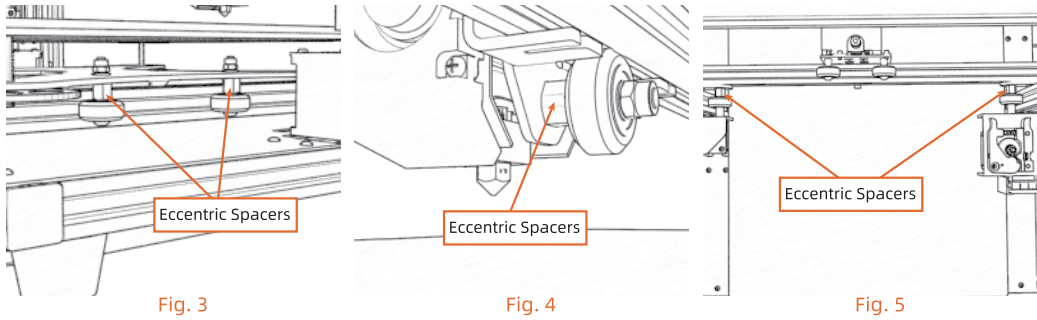


Fig. 3

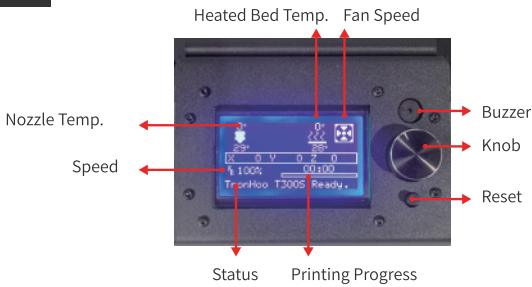
Fig. 4

Fig. 5

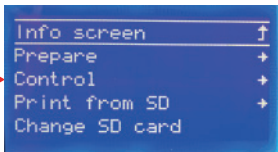
- Some parts of the printer may be loose during shipment. When assembling the printer, please check whether the heated bed and nozzle module are fixed properly and will not shake, and whether the x-axis guide rail stable one the gantry and not easy to fall when power is off. If not, adjust the eccentric spacers of the heated bed, nozzle module and x-axis guide rail (fig. 3, fig. 4, fig. 5) until the heated bed or nozzle module just stop shaking, or the x-axis guide rail is just stable on the gantry and does not fall easily. Note that if the eccentric spacers are too tight, the movements will not be smooth and the pulleys are easy to wear.
- DO NOT pull out the Teflon feeding tube from the nozzle module. If the Teflon feeding tube is not installed in place, it will cause nozzle jams.
- Be careful not to let the power switch stand the weight of the printer when setting up, or it may damage the switch.

Menu Opreation

Operation Interface



Click to enter main menu



Move Axis

Info screen
Prepare
Control
No SD card
Init. SD card

→

Main
Move axis
Auto home
Disable steppers
Change filament

→

Prepare
Move X
Move Y
Move Z
Extruder

→

Move X
Move axis
Move 10mm
Move 1mm
Move 0.1mm

→

Move X: +020.0
Move X: -020.0

Turn the knob clockwise to increase.
Turn the knob counterclockwise to decrease.

Preheat

Attention: Preheat is needed before loading filament. Select “Preheat PLA” for PLA filament. Select “Preheat ABS” for ABS filament.

Info screen
Prepare
Control
No SD card
Init. SD card

→

Auto home
Disable steppers
Change filament
Preheat PLA
Preheat PLA End
Preheat ABS

→

Prepare
Preheat PLA
Preheat PLA End
Preheat PLA Bed

→

Set Nozzle Temp. 0°
Set Heated Bed Temp. 0°
X 0 Y 0 Z 0
100% 00:00
TronHoo T300S Ready.

Reset the Nozzle

Select “Prepare” – “Auto home”. The nozzle returns to zero of X, Y, Z.

Info screen
Prepare
Control
No SD card
Init. SD card

→

Main
Move axis
Auto home
Disable steppers
Change filament

Print

Insert SD card. Select “Init. SD card” – “Print from SD”. Select the printing file and start printing.

Info screen
Prepare
Control
No SD card
Init. SD card

→

Info screen
Prepare
Control
Print from SD
Change SD card

→

Main
Refresh
TronHoo.gcode

Control

Info screen
Prepare
Control
No SD card
Init. SD card

→

Main
Temperature

→

Control
Nozzle:
Bed:
Fan speed:
Preheat PLA conf

Pause / Resume / Stop Printing

Click the knob while printing.

Info screen
Tune
Control
Pause print
Stop print

→

Info screen
Tune
Control
Resume print
Stop print

→

Info screen
Tune
Control
Resume print
Stop print

Select “Pause print” to pause.

Select “Resume print” to continue printing.

Select “Stop print” to abort.

Recovery

If the power is interrupted during printing, you will see this menu when you restart the printer.

Resume print
Stop print

→

0° 0°
29° 28°
X 0 Y 0 Z 0
100% 00:00
Print aborted

Select “Resume print” to continue printing.

Select “Stop print” to return to Info screen

Load / Unload / Change Filament

Info screen
Prepare
Control
No SD card
Init. SD card

→

Main
Move axis
Auto home
Disable steppers
Change filament

→

Change filament
Change filament
Preheat PLA
Preheat ABS

→

PRINT PAUSED
Heating nozzle
Please wait...
Nozzle: E1 123/240

→

PRINT PAUSED
Wait for filament unload
Nozzle: E1 190/195

Select the right filament to preheat.

Wait for heating.

Extruder retracts used filament gradually. Then the remaining long filament needs to be retracted manually.

PRINT PAUSED
Insert filament and press button to continue...
Nozzle: E1 194/195

→

PRINT PAUSED
Wait for filament purge
Nozzle: E1 193/195

→

RESUME OPTIONS:
Continue
Purge more

Insert new filament through the extruder to the nozzle. Press the knob to extrude filament.

Wait for filament purge.

Select “Continue” to end purging. Select “Purge more” to purge again.

When the new filament comes out from the nozzle, the loading is completed.

Printing Operation

Process for first print

1) Setup the printer.

2) Check power supply, connect the power cord and turn on the printer. (Fig. 1)

3) Reset the nozzle.

4) Leveling.

5) Preheat.

6) Loading filament. (Fig. 2 and 3)

7) Slice the 3D model.

8) Insert TF card with printing files. (Fig. 4)

9) Start printing and wait until it is finished.

10) Remove the print.

11) Turn off the printer.

General printing process

1) Connect power and turn on the printer. (Fig. 1)

2) Loading filament. (Fig. 2 and 3)

3) Slice the 3D model.

4) Insert TF card with printing files. (Fig. 4)

5) Start printing and wait until it is finished.

6) Remove the print.

7) Turn off the printer.

Reset the nozzle and Leveling

1. Spin the thumb nuts under the heated bed until the springs are tight.

2. Zero the nozzle. Select “Prepare” – “Auto home”. The nozzle returns to zero of X, Y, Z.

3. Turn off the stepper motors. Select “Prepare” – “Disable steppers” .

4. Manually move the nozzle onto one corner of the heated bed.

5. Check if the distance between the nozzle and the heated bed is 0.1 mm. A printing paper can help to check the distance. If the paper can be moved between the nozzle and the heated bed but with slight resistance and the nozzle moves without scratching the heated bed, then the distance is suitable.

6. If the distance is too large or too small, spin the thumb nuts to calibrate.

7. Similarly, clockwise or counterclockwise calibrate the distances between the nozzle and the rest three corners to 0.1 mm.

Loading filament

1. Hang a spool of filament with 1.75 mm diameter, PLA is recommended, onto the spool holder. (Fig. 2)

2. Select “Prepare” – “Preheat PLA” – “Preheat PLA End” and wait for the nozzle temperature rise up.

3. Press the clamper of the extruder and feed the filament through the extruder to the nozzle. Release the clamper and make sure the driving gear grabs on the filament. (Fig. 3)

4. Select “Prepare” – “Move axis” – “Extruder” – “Move 10mm” and turn the knob clockwise to set a positive value to extrude the filament to the nozzle.

5. When the filament comes out from the nozzle. Then the filament is loaded and ready to print.

Printing

1. After leveling and loading filament, insert the TF card with the printing file. (Fig. 4)

2. Select “Init. SD card” – “Print from SD” . Select the printing file and start printing.

3. Pause, resume or abort printing. Click the knob while printing. Select “Pause print” to pause. Select “Resume print” to continue printing. Select “Stop print” to abort.

Remove the print

1. Cool down the heated bed.

2. Detach the magnetic build plate with the print on it.

3. Remove the print from the magnetic build plate by bending the build plate.