

Anet 1111111

Anet A8 3D Printer Instruction Manual

Model: 1111111

1. PRODUCT OVERVIEW

The Anet A8 3D Printer is a self-assembly desktop 3D printer designed for enthusiasts and hobbyists. It features a 0.4mm nozzle, an aluminum alloy hotbed, and a 2004 LCD display for easy control. This manual provides detailed instructions for assembly, operation, and maintenance to ensure optimal performance.



Figure 1.1: Assembled Anet A8 3D Printer.

2. SETUP AND ASSEMBLY

Careful assembly is crucial for the proper functioning of your Anet A8 3D Printer. Please follow the steps below precisely. Refer to the provided videos for visual guidance.

2.1 Unboxing and Parts Verification

Upon receiving your Anet A8 3D Printer, carefully unbox all components. It is recommended to open the box from the top to prevent parts from scattering. Verify all parts against the included assembly parts list. If any parts are missing, please contact customer service immediately, providing the machine code found on the box label.



Figure 2.1: Unboxed components and assembly parts list.

Video 2.1: Anet A8 Assembly Video Part 1. This video guides you through the initial unboxing and frame assembly steps.

2.2 Frame Assembly

Assemble the acrylic frame using the provided M3*18 screws and M3 nuts. Ensure correct alignment of all parts. Do not overtighten screws until all components are in place, as the frame is made of acrylic and plastic.

2.3 Y-Axis Assembly

Install the Y-axis limited switch and motor. Pay close attention to the direction of the Y motor plug position and ensure it is consistent with the video guide. The Y-axis limited switch cable length is 700mm.

2.4 Z-Axis Assembly

Install the Z-axis rods and motors. Ensure the T-rod (345mm) and threaded rod (400mm) are correctly identified and installed. The Z-axis limited switch cable length is 250mm.

2.5 X-Axis Assembly

Install the X-axis motor and leading rod. Adjust the two printed parts to the same level to facilitate the installation of the X leading rod. The X-axis limited switch cable length is 500mm.

2.6 Hotbed Installation and Leveling

Install the hotbed onto the Y-axis. Ensure the hotbed is securely attached. To level the hotbed, press the springs of the hotbed to their lowest state and then tighten the wing nuts. This ensures proper bed adhesion during printing.

2.7 Extruder Assembly and Installation

Assemble the extruder components, including the 0.4mm metal nozzle. Ensure the direction of the toothed belt is consistent with the video guide. Do not cut the belt too short. The belt tension should be neither too loose nor too tight; it should have a slight tension when pressed with a finger. The extruder line length is 900mm.

Video 2.2: Anet A8 Assembly Video Part 2. This video covers the installation of the hotbed, extruder, and wiring.

2.8 Wiring

Connect all motor lines, limited switches, and the hotbed line to the mainboard. Each line has a corresponding label; please confirm the label is consistent with the code on the mainboard during connection. Ensure power lines are correctly connected to avoid damage.

Support SD Card or On-Line Printing

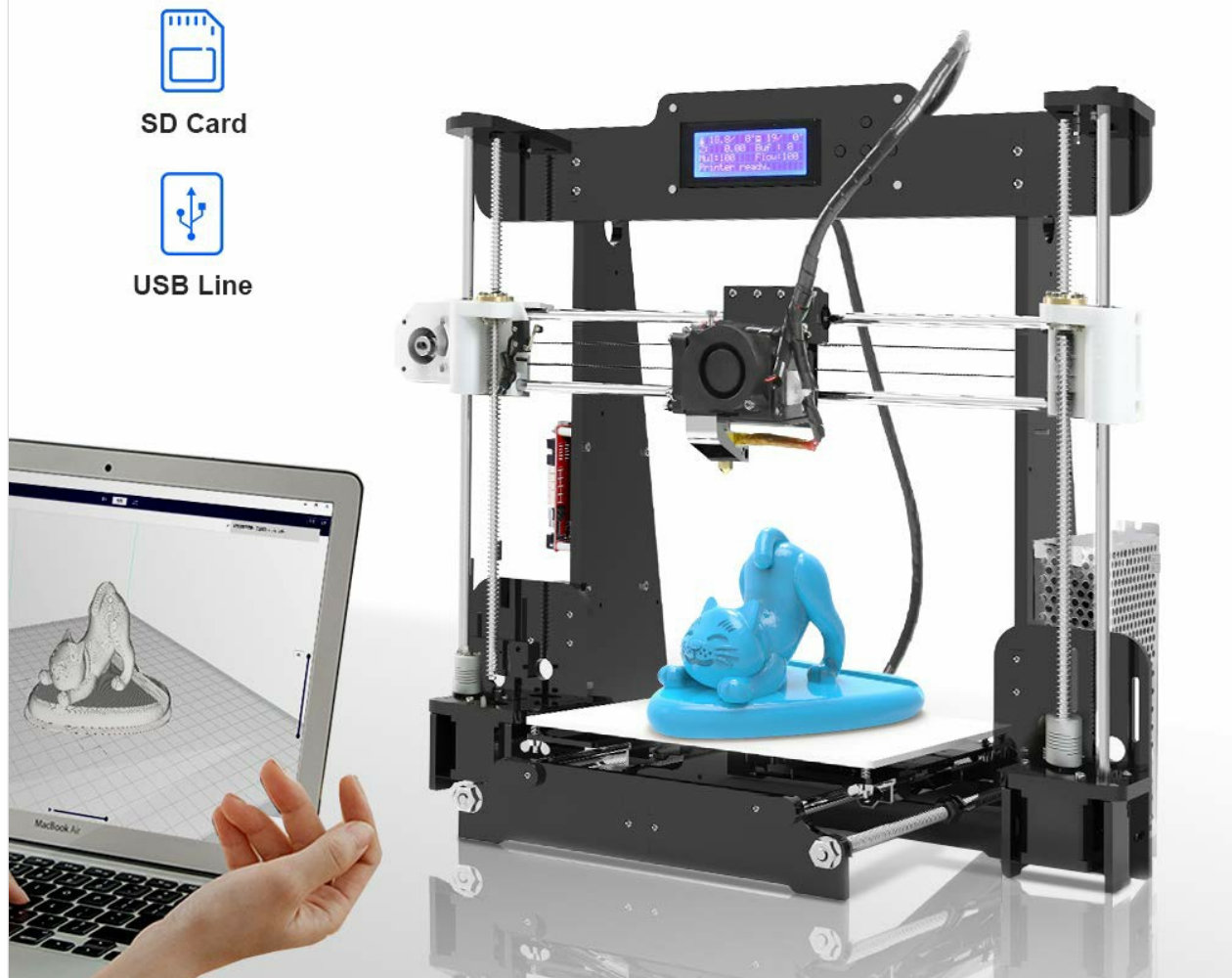


Figure 2.2: The Anet A8 supports both SD card and USB connectivity for printing.

3. OPERATING INSTRUCTIONS

Once assembled, your Anet A8 3D Printer is ready for operation. This section covers basic functions to get you started.

3.1 Power On and Initial Setup

Connect the power supply to the printer and a power outlet. The 2004 LCD display will light up. Navigate the menu using the 5-key control panel. It is recommended to perform a self-test or homing sequence to ensure all axes move correctly.

3.2 Loading Filament

Gently feed the filament into the extruder. Ensure the hotend is preheated to the appropriate temperature for your filament type (e.g., PLA, ABS). The printer supports various filaments like ABS/PLA/HIP/PRTG/TPU/Wood/Nylon/PP.

3.3 First Print

Load your desired 3D model file onto the 8G SD card and insert it into the printer's card reader. Select the file from the LCD menu and start printing. Monitor the first layer to ensure proper adhesion and adjust bed leveling if necessary.



Figure 3.1: High precision printing in progress, showing layer thickness and printing speed capabilities.

Video 3.1: Anet A8 3D printer in action, demonstrating its printing capabilities.

4. MAINTENANCE

Regular maintenance ensures the longevity and consistent performance of your 3D printer.

4.1 Cleaning

- **Nozzle:** Regularly clean the nozzle to prevent clogs. Use a small brush or needle to remove any filament residue.
- **Hotbed:** Clean the hotbed surface with isopropyl alcohol after each print to ensure good adhesion for subsequent prints.
- **Rods and Lead Screws:** Keep the smooth rods and threaded rods clean and free of dust. Apply a thin layer of lubricant periodically to ensure smooth movement.

4.2 Belt Tensioning

Check the tension of the X and Y axis belts regularly. The belt should not be too loose or too tight. A slight tension when pressed with a finger is ideal. Adjust the belt clips if necessary.

4.3 Connection Checks

Periodically inspect all wiring connections to the mainboard, motors, and hotend. Ensure they are secure and free from damage. Loose connections can lead to print failures or safety hazards.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Anet A8 3D Printer.

5.1 Print Adhesion Issues

- **Problem:** First layer not sticking to the print bed.
- **Solution:** Ensure the print bed is level. Clean the print surface thoroughly. Adjust the Z-offset to bring the nozzle closer to the bed. Increase hotbed temperature if necessary.

5.2 Filament Not Extruding

- **Problem:** No filament coming out of the nozzle.
- **Solution:** Check for clogged nozzle. Ensure the extruder motor is turning and the filament is feeding correctly. Verify hotend temperature is sufficient for the filament.

5.3 Layer Shifting

- **Problem:** Printed layers are misaligned.
- **Solution:** Check belt tension on X and Y axes. Ensure all pulleys and gears are securely fastened. Verify that the print speed is not too high.

5.4 Printer Not Powering On

- **Problem:** Printer does not turn on after connecting power.
- **Solution:** Verify power lines are correctly connected to the power supply and mainboard. Check the power supply voltage setting (110V/220V) matches your country's standard.

6. SPECIFICATIONS

Feature	Specification
Brand	Anet
Model Number	1111111
Product Dimensions	15.7"D x 17.7"W x 19.7"H
Item Weight	8 Kilograms
Nozzle Diameter	0.4mm
Hotbed Material	Aluminium Alloy
Display	2004 LCD

Compatible Filaments	ABS/PLA/HIP/PRTG/TPU/Wood/Nylon/PP etc.
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7. WARRANTY AND SUPPORT

For warranty information or technical assistance, please contact the manufacturer, Anet, directly. Refer to the contact information provided with your purchase or visit the official Anet website.