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› Comgrow Creality Ender 3 3D Printer Instruction Manual

Comgrow Ender 3

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Model: Ender 3

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1. SETUP

The Creality Ender 3 3D printer is designed for DIY assembly, offering an educational experience for beginners and students. Assembly typically takes approximately 2 hours.

1.1 Unboxing and Component Identification

Carefully unbox all components and verify against the packing list. Familiarize yourself with each part before beginning assembly.

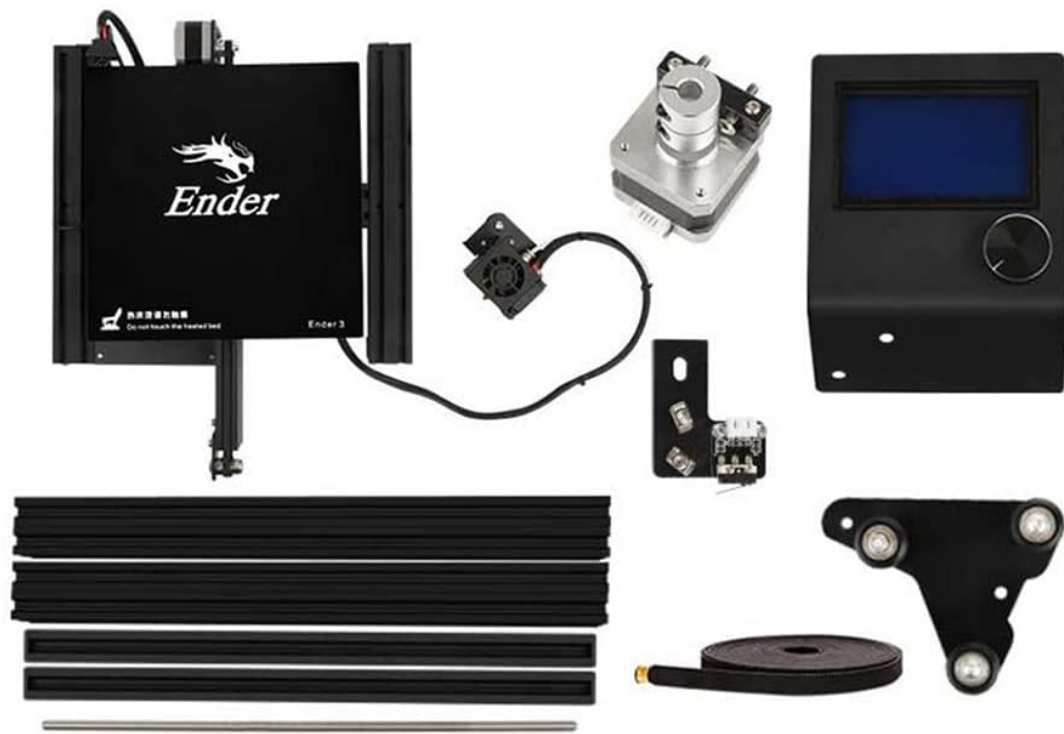


Image: All components included with the Ender 3 3D printer, laid out for identification.

1.2 Power Supply Voltage Selection

Before connecting the printer to power, ensure the power supply voltage switch is set correctly for your region. The switch is located on the side of the power supply unit. For regions using 115V, set the switch to 115V. For regions using 230V, set the switch to 230V. Incorrect voltage selection can damage the printer.

Before

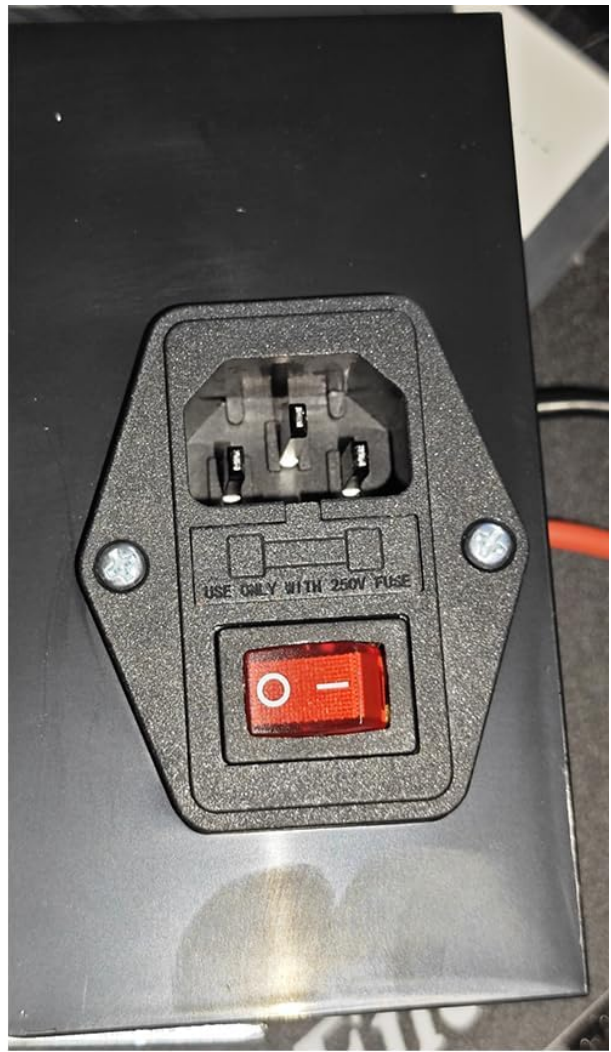


After



Please pay attention to the stick on the screen and choose the correct position for the power supply switch.

Image: Power supply voltage switch set to 115V (right) compared to 230V (left).



The power supply is on the right profile, please change to the right position before you turn on your printer.

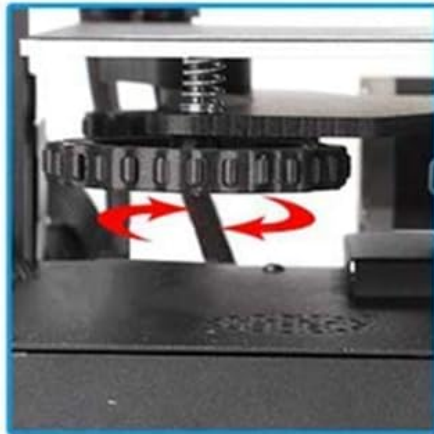
Image: Location of the power supply switch on the right profile of the printer.

1.3 Initial Bed Leveling

Accurate bed leveling is crucial for successful prints. The Ender 3 features large hand-twist nuts for easier adjustment of the print platform. Ensure the nozzle is uniformly distanced from the print bed at all four corners, approximately the thickness of a piece of paper.



Big hand twist nut, make the print platform easier to level.



CORPORATE CERTIFICATE



Image: Adjusting the large hand-twist nuts for print bed leveling.

2. OPERATION

2.1 Resume Printing Function

The Ender 3 is equipped with a resume printing function. In the event of a power outage or unexpected stoppage, the printer can continue printing from where it left off once power is restored. This feature helps prevent print failures due to power interruptions.

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Safety protected power supply and additional. power cut protection fuction, realize longtime print.

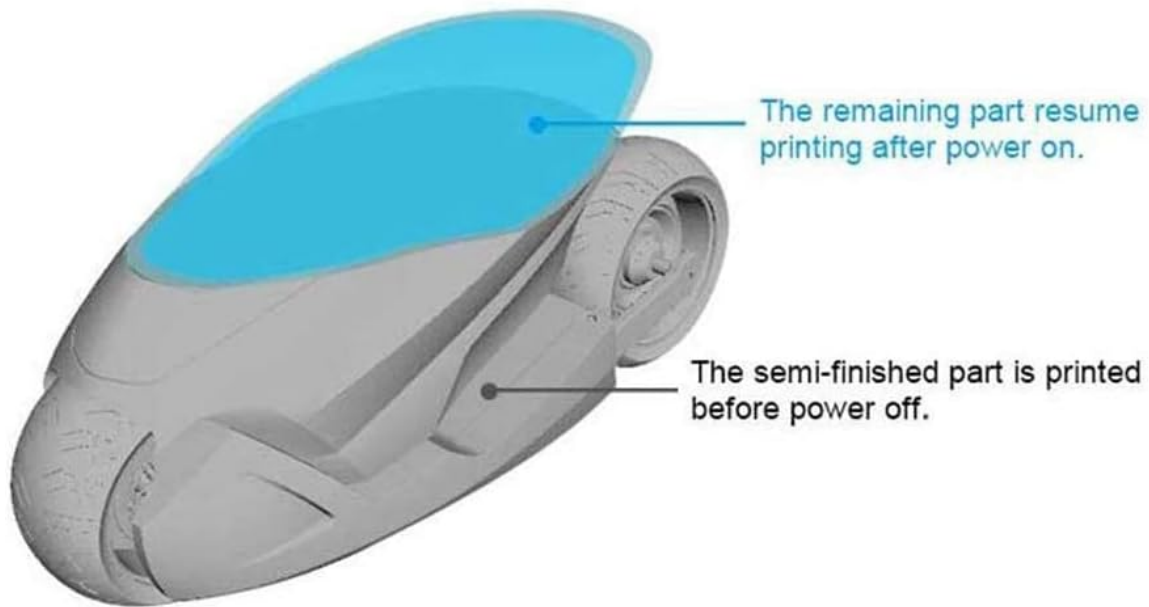


Image: The resume printing function allows continuation of a print after power loss.

2.2 Advanced Extruder Technology

The upgraded extruder design significantly reduces the risk of filament plugging and ensures consistent extrusion. The V-shape wheels contribute to noiseless, smooth, and durable movement during printing.

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Image: The Ender 3 3D printer in action, demonstrating its printing capabilities.

2.3 Quick Heating Hot Bed

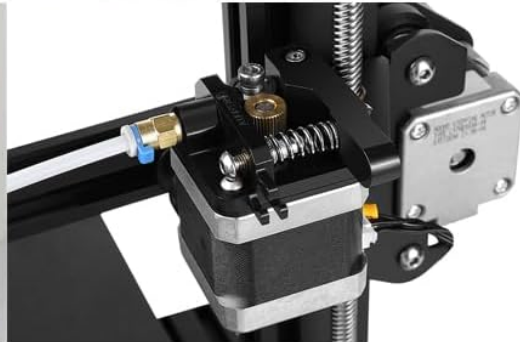
The hot bed can reach 100°C in approximately 5 minutes, facilitating faster print starts and improved adhesion for various filament types.

PRODUCT ADVANTAGES

- 1** Super Printing size with one-piece structure, save space but building the world.



- 2** Extruder greatly reduces plugging risk and bad extrusion.



- 3** Reach 100°C for hotbed in about 5 minutes, meet the needs of fast heating.



- 4** Adopt V-shape design with upgrade wheels, it is noiseless, smoothly and durable.



Image: The hot bed quickly reaching optimal temperature for printing.

2.4 Printing Methods

The Ender 3 supports printing via SD card or by connecting directly to a computer. Printing directly from a smartphone is not supported.

3. MAINTENANCE

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

3.1 Cleaning the Print Bed

After each print, allow the print bed to cool before attempting to remove the printed object. Use the provided scraper tool carefully. For stubborn prints, a small amount of rubbing alcohol can assist in removal. Regularly clean the print surface to maintain adhesion properties.

3.2 Checking Belts and Rollers

Periodically inspect the X and Y axis belts for proper tension. They should be taut but not overly tight. Also, check the V-shape rollers for smooth movement and ensure they are free from debris. Adjust eccentric nuts if any wobbling or excessive play is observed.

3.3 Nozzle and Extruder Maintenance

To prevent clogs and ensure consistent extrusion, regularly inspect the nozzle for wear or blockages. If under-extrusion or poor print quality occurs, the nozzle may need cleaning or replacement. Ensure the PTFE tube is securely seated in the hotend to prevent filament jams.

3.4 Filament Storage

Store filament in a dry environment to prevent moisture absorption, which can lead to print quality issues like stringing and poor layer adhesion. Consider using a filament dryer box for optimal results.

4. TROUBLESHOOTING

This section addresses common issues encountered during 3D printing with the Ender 3.

4.1 Print Not Sticking to Bed (Poor Adhesion)

- **Solution:** Re-level the print bed. Ensure the nozzle-to-bed distance is correct (paper thickness). Increase hot bed temperature if necessary (e.g., 50-60°C for PLA). Clean the print surface with isopropyl alcohol to remove oils and debris. Applying a thin layer of glue stick or painter's tape can also improve adhesion.

4.2 Stringing or Blobs on Prints

- **Solution:** Adjust retraction settings in your slicer software. Increase retraction distance and speed. Ensure filament is dry; moist filament can cause stringing. Optimize print temperature; printing too hot can lead to excessive oozing.

4.3 Clogged Nozzle / Under-extrusion

- **Solution:** Heat the hotend to printing temperature and manually push filament through to clear blockages. Use the provided needle tool to clear the nozzle opening. If the clog persists, the nozzle may need to be replaced. Check the PTFE tube for secure seating and wear, as a gap can cause jams. Calibrate E-steps (extruder steps) to ensure the correct amount of filament is being extruded.

4.4 Wobbly or Loose Axes

- **Solution:** Inspect the eccentric nuts on the rollers for the X, Y, and Z axes. Adjust them to remove play without overtightening, ensuring smooth movement. Tighten any loose screws on the frame.

5. SPECIFICATIONS

Feature	Detail
Product Dimensions	16.14 x 16.54 x 18.31 inches (410 x 420 x 465 mm)
Item Weight	15.43 pounds (7 kg)
Model Number	Ender 3
Brand	Comgrow
Manufacturer	Creality 3D
Material	Aluminum

Feature	Detail
Build Volume	8.66 x 8.66 x 9.84 inches (220 x 220 x 250 mm)
Resume Printing	Supported
Extruder Type	Bowden
Connectivity	SD Card, USB (to computer)

6. WARRANTY & SUPPORT

6.1 Warranty Information

For detailed warranty terms and conditions, please refer to the official Comgrow website or contact their customer service directly. Warranty coverage typically includes manufacturing defects for a specified period from the date of purchase.

6.2 Technical Support

Comgrow provides technical support for their products. If you encounter issues that cannot be resolved using this manual, please contact Comgrow's technical staff. Additionally, a large online community exists for Creality Ender 3 users, offering a wealth of information and peer support.

Contact information for support can typically be found on the product packaging, the official Comgrow website, or through your purchase platform.