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› Creality Ender-2 Pro 3D Printer Instruction Manual

Creality Ender2 pro

Creality Ender-2 Pro 3D Printer Instruction Manual

Model: Ender2 pro

1. INTRODUCTION

The Creality Ender-2 Pro is a compact and portable FDM (Fused Deposition Modeling) 3D printer designed for ease of use and quick assembly. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Ender-2 Pro 3D printer to ensure optimal performance and longevity.



Figure 1.1: The Creality Ender-2 Pro 3D Printer, showcasing its compact design and a sample print.

2. SAFETY INFORMATION

Please read and understand all safety warnings and instructions before operating the printer. Failure to do so may result in injury, damage to the printer, or poor print quality.

- **Electrical Safety:** Ensure the printer is connected to a grounded power outlet. Do not operate with wet hands or in damp conditions.
- **Hot Surfaces:** The nozzle and print bed can reach high temperatures. Avoid touching these components during operation or immediately after. Allow them to cool before handling.
- **Moving Parts:** Keep hands, hair, and loose clothing away from moving parts during operation to prevent entanglement.
- **Ventilation:** Operate the printer in a well-ventilated area, especially when printing with materials that may emit

fumes.

- **Children and Pets:** Keep the printer out of reach of children and pets. Adult supervision is required if children are present.
- **Filament Handling:** Use only recommended filament types. Store filament in a dry environment to prevent moisture absorption.

3. PACKAGE CONTENTS

Verify that all components are present and in good condition upon unpacking. If any parts are missing or damaged, contact customer support.



Figure 3.1: Overview of the Creality Ender-2 Pro 3D Printer and its accessories as received in the package.

Included Components:

- Ender-2 Pro 3D Printer (partially pre-assembled)
- DIY Handle
- Material Rack and Material Tube
- Snap-on Screen
- Power Cable
- Filament Sample
- Tool Kit (Allen wrenches, spanner, pliers, screwdriver, needles)
- USB Cable
- SD Card and Card Reader
- User Manual

4. SETUP AND ASSEMBLY

The Ender-2 Pro is designed for quick assembly, with approximately 90% of the printer pre-installed. Follow these four steps to complete the setup.

QUICK ASSEMBLY IN **FOUR** STEPS



Figure 4.1: Visual guide to the four-step assembly process.

1. **Attach the XZ Axis Profile:** Secure the XZ axis profile to the base using the provided screws.
2. **Install the DIY Handle:** Mount the red DIY handle to the top of the XZ axis.
3. **Mount the Material Rack and Tube:** Attach the filament spool holder (material rack) and guide tube to the designated positions.
4. **Connect the Snap-on Screen:** Attach the control screen to the side of the printer base.

Ensure all connections are secure and cables are properly routed before powering on the printer.

5. OPERATING INSTRUCTIONS

5.1. Power On and Initial Checks

Connect the power cable and turn on the printer. The screen will illuminate. Ensure the print bed is clear of any debris.

5.2. Loading Filament

- Place the filament spool onto the material rack.
- Feed the filament through the material tube into the extruder.
- Preheat the nozzle to the appropriate temperature for your filament type (e.g., 200°C for PLA).
- Once heated, push the filament through the extruder until it emerges from the nozzle.

5.3. Starting a Print

- Prepare your 3D model using slicing software (e.g., Cura, PrusaSlicer) and save it as a G-code file onto the provided SD card.
- Insert the SD card into the printer's card slot.
- Navigate the menu on the snap-on screen to "Print from SD" and select your desired G-code file.
- The printer will begin the preheating process, followed by automatic bed leveling (if applicable) and then printing.

5.4. Resume Printing Function

The Ender-2 Pro features a resume printing function that automatically saves your print progress in the event of a power failure. Once power is restored, the printer can resume from where it left off, preventing print failures and material waste.

Interruption recovery

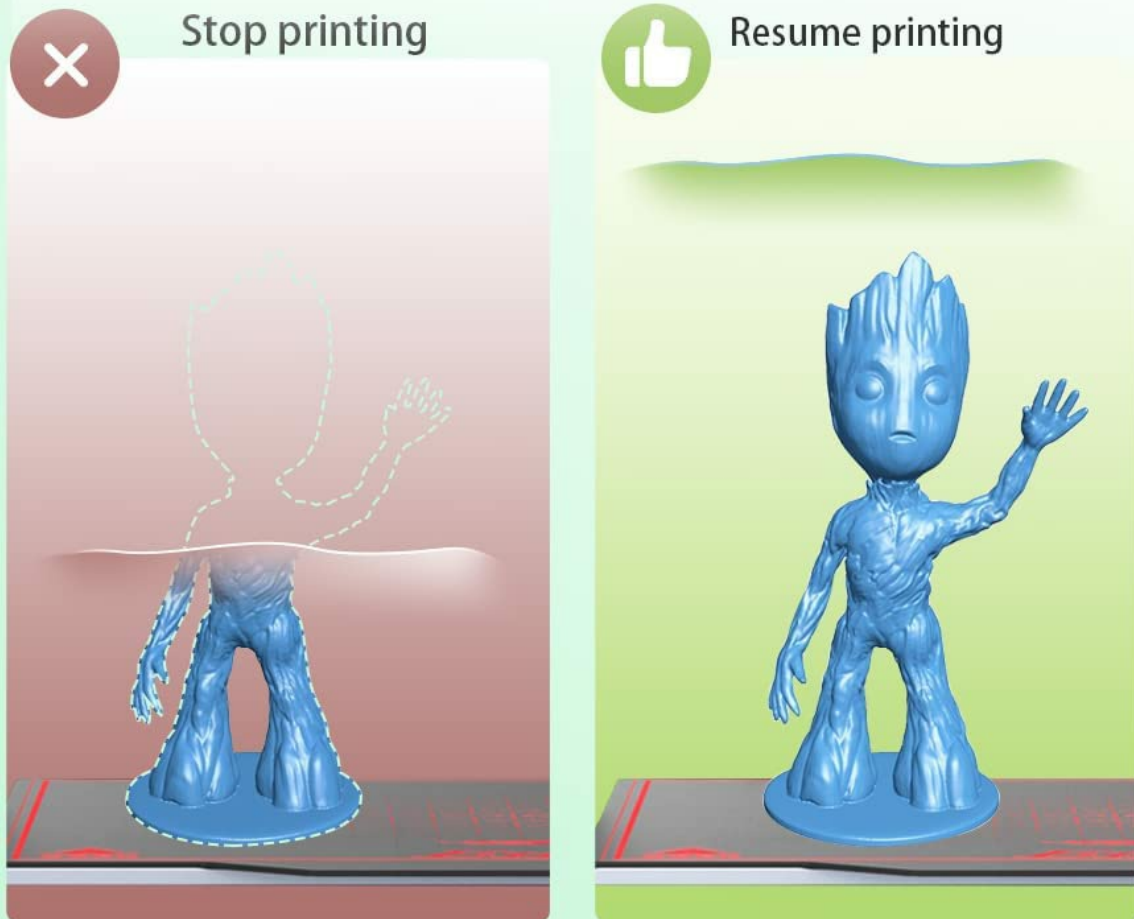


Figure 5.1: The resume printing function ensures continuity even after power interruptions.

5.5. Magnetic Sticker Platform

The printer is equipped with a strong magnetic sticker platform, which facilitates easy installation and removal of printed models. After a print is complete and the bed has cooled, you can gently flex the magnetic sheet to detach the print.



04

Magnetic Sticker Platform

Strong magnetic force facilitates easy installation and mold.

03

Clip-on Screen

Screw-free locking helps you install and dismantle the screen on demand.



Figure 5.2: The magnetic sticker platform simplifies print removal.

6. MAINTENANCE

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

- **Clean the Print Bed:** After each print, clean the print bed with isopropyl alcohol to remove any residue and ensure good adhesion for the next print.
- **Nozzle Cleaning:** Periodically clean the nozzle with the provided needle to prevent clogs. If a severe clog occurs, a cold pull or hot end disassembly may be required.
- **Lubricate Moving Parts:** Apply a small amount of lithium grease or similar lubricant to the Z-axis lead screw and smooth rods every few months to ensure smooth movement.
- **Check Belt Tension:** Ensure the X and Y axis belts are properly tensioned. The Ender-2 Pro includes a built-in belt tensioner for easy adjustment, which helps prevent layer shifting caused by inadequate tightness.



02

Belt Tensioner

The belt tensioner is an easy-to-use tool that helps prevent problems such as layer shifting caused by inadequate tightness.

01

Compact Toolkit

Small tool box, convenient storage and sorting, even a small screw will not be lost.



Figure 6.1: The integrated belt tensioner simplifies maintenance and improves print quality.

- **Compact Toolkit:** The printer features a small, integrated toolbox for convenient storage of small tools and screws, ensuring they are not easily lost.



05

Seamless Storage

The rack can be rotated back into place. Screen dismantling does not take up space. Compact design enables seamless storage.

06

CREATIVE DEFIT JOY OF DIY

Fashion matching, to meet personalized needs.



Figure 6.2: The seamless storage design allows the material rack to be rotated back into place for compact storage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ender-2 Pro 3D printer.

Problem	Possible Cause	Solution
Filament not extruding	Clogged nozzle, tangled filament, incorrect temperature.	Clean the nozzle, untangle filament, verify temperature settings.
Poor bed adhesion	Unleveled bed, dirty print surface, incorrect bed temperature.	Level the print bed, clean the magnetic sticker platform, adjust bed temperature.
Layer shifting	Loose belts, print speed too high, motor issues.	Check and tension belts (use built-in tensioner), reduce print speed.
Excessive Noise	Fan noise, stepper motor noise.	The Ender-2 Pro features a silent motherboard to minimize stepper motor noise. Fan noise is normal during operation. Ensure no obstructions are near fans.

LOW NOISE

This desktop 3d printer has upgrade silent drivers mainboard, always ensuring quiet and smooth movement under 60dB, never disturbs kid's rest when printing

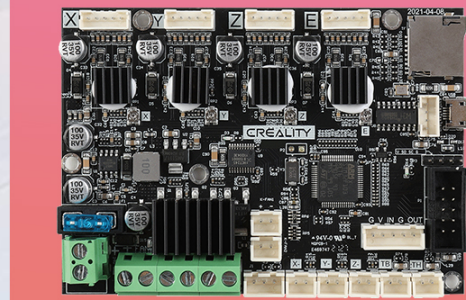
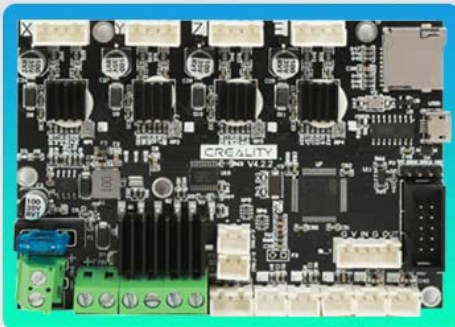


Figure 7.1: The silent motherboard ensures quiet operation, suitable for various environments.

Ender-3

**Non-Silent
Motherboard**



Ender 2 Pro

**SILENT
Motherboard**

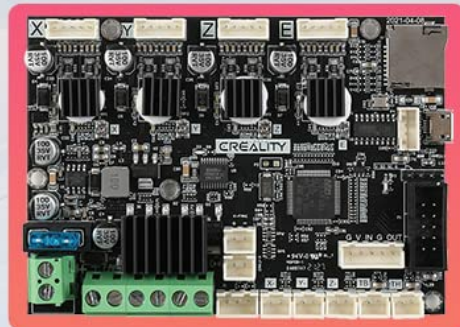


Figure 7.2: The Ender-2 Pro's silent motherboard significantly reduces operational noise compared to older models.

8. SPECIFICATIONS

Feature	Detail
Model	Ender2 pro
Brand	Creality
Product Dimensions	10"D x 10"W x 10"H (165x165x180mm print size)
Item Weight	4.65 Kilograms (approx. 10.25 Pounds)
Color	Black, Red
Manufacturer	Creality 3D
Operating System (for software)	Linux (compatible with various slicing software on different OS)
First Available Date	October 9, 2021

ONLY 10.25 Pounds

LIGHTER THAN 5 BOTTLES OF WATER



Figure 8.1: The Ender-2 Pro is remarkably light and portable.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the official Creality website or contact their customer service directly. You can often find additional resources, FAQs, and community forums online.

Scan the QR code on the printer or visit the official Creality website for the latest support information and firmware updates.



Figure 9.1: Locate the QR code on your printer for quick access to official resources.