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› Creality Hi Combo 3D Printer User Manual

Comgrow Creality Hi Combo

Creality Hi Combo 3D Printer User Manual

Model: **Creality Hi Combo** | Brand: **Comgrow**

1. SETUP AND INITIAL ASSEMBLY

The Creality Hi Combo 3D Printer is designed for ease of use, arriving 95% pre-assembled. The initial setup process is streamlined to allow users to begin printing quickly.

1.1 Unboxing and Component Identification

Carefully remove all components from the packaging. Ensure all parts listed in the packing list are present. The main components include the Creality Hi 3D printer unit and the CFS (Color Filament System) unit.



Figure 1: Creality Hi Combo 3D Printer with the accompanying CFS unit. The printer features a grey and black design, with the CFS unit

positioned to its right, showcasing multiple filament spools.

1.2 Assembly Steps

The printer is largely pre-assembled. Complete the assembly by tightening the remaining seven screws and connecting the necessary wiring. A quick guide is provided to assist with this process.

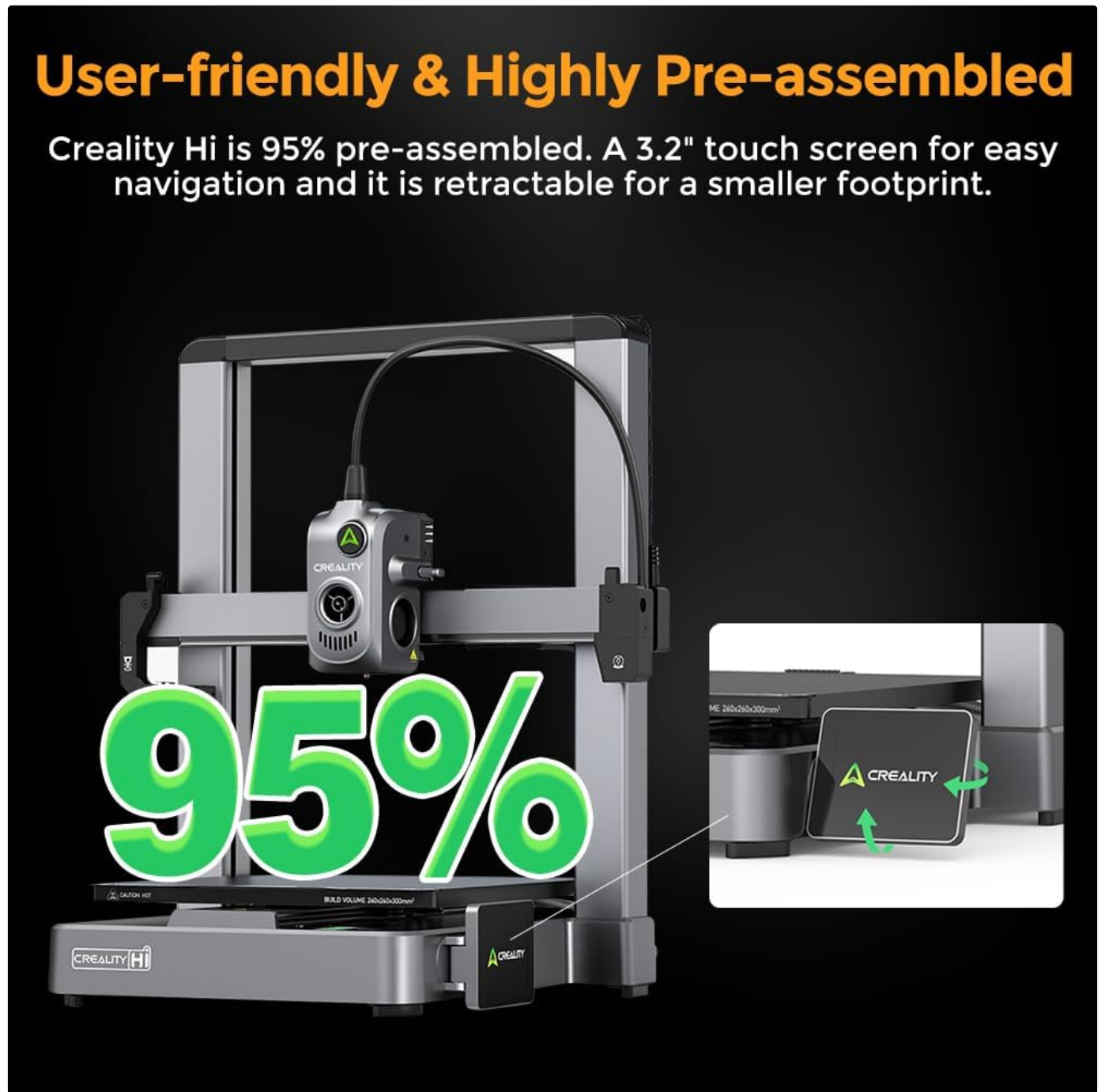


Figure 2: Illustration highlighting the 95% pre-assembled state of the Creality Hi printer, emphasizing its user-friendly setup.

1.3 Auto-Leveling Functionality

The Creality Hi Combo features an automatic leveling system. A strain gauge in the toolhead probes the bed to create an accurate leveling mesh. Two independently motorized lead screws adjust the X-axis to ensure a horizontal position, eliminating manual bed leveling.

Auto Bed Leveling & X-axis Tilt Reduction

A good first layer is a nice print half done. Creality Hi, with a comprehensive and precise auto-leveling system, grants you the perfect first layer every time.



Dual Lead Screws



High-sensitivity Sensor

Figure 3: Visual representation of the dual lead screws for X-axis adjustment and the high-sensitivity sensor for auto bed leveling, ensuring a perfect first layer.

1.4 Initial Calibration and Software Setup

A simple quick guide is included to cover all necessary software setups and first-time calibrations. This ensures even beginners can successfully initiate their first print.



Figure 4: The printer's 3.2-inch touch screen displaying a 'Self-Check Completed' message, indicating the helpful boot-up quick guide feature.

2. OPERATING INSTRUCTIONS

The Creality Hi Combo offers advanced features for multi-color, high-speed, and reliable 3D printing.

2.1 Multi-Color Printing with CFS

The printer combines with a CFS (Color Filament System) unit, enabling multi-color printing. Up to 16 colors can be printed simultaneously with four CFS units. This intelligent management system reduces filament waste and enhances creative possibilities.



Figure 5: The Creality Hi printer connected to the CFS unit, showing the touch screen interface for smooth filament loading and unloading.

2.2 High-Speed Printing

The X and Y axes are driven by FOC (Field-Oriented Control) step-servo motors, allowing for ultra-smooth motion and high print speeds up to 500mm/s with a maximum acceleration of 12000mm/s².

Mind-blowing Print Speed

500mm/s*

Max Speed

12000mm/s*

Max Acceleration



*Data from Creality Lab.

The image shows an overhead view of a Creality Hi 3D printer. The printer is black with a green filament being extruded to form a green Jeep model on the build plate. The printer has a large, flat build plate and a prominent extruder head. The background is dark with green motion blur lines, suggesting high speed. Text overlays at the top highlight the printer's capabilities: 'Mind-blowing Print Speed', '500mm/s* Max Speed', and '12000mm/s* Max Acceleration'. A small note at the bottom left states '*Data from Creality Lab.'.

Figure 6: An overhead view of the Creality Hi printer in action, illustrating its high-speed printing capability with a model of a jeep on the build plate.

2.3 Advanced Extrusion System

The printer features an upgraded direct drive extrusion system with all-metal extruder gears for durability. The integrated nozzle is clog-free and allows for quick swapping. A built-in filament run-out sensor monitors filament usage precisely.

Clog-free & Quick-swap Nozzle

Durable and easily swappable tri-metal nozzle.

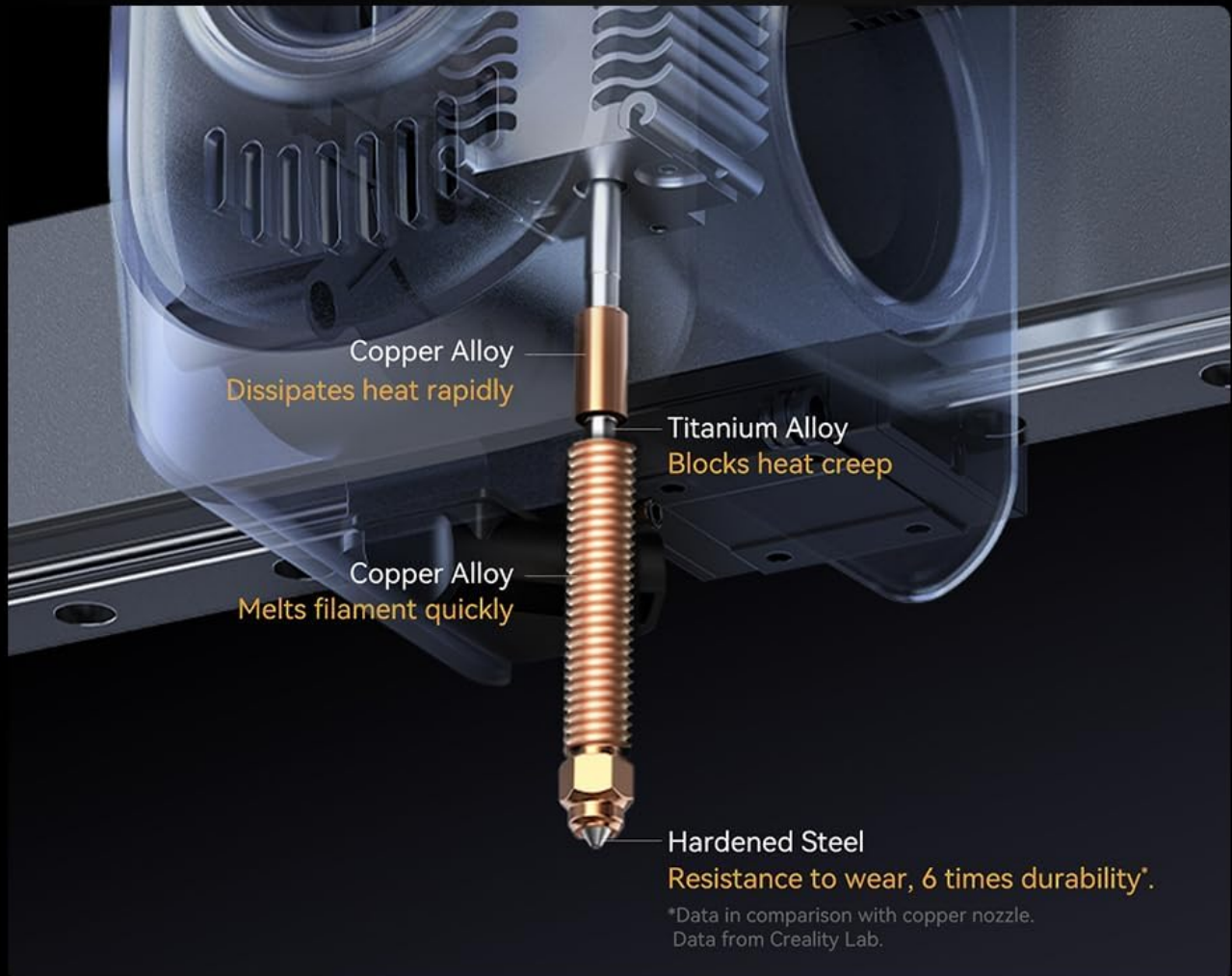


Figure 7: Detailed view of the tri-metal nozzle, highlighting its hardened steel tip, titanium alloy heatbreak, and copper alloy body for efficient heat dissipation and quick filament melting.

Latest Techs for Capable Extrusion

Metal extruder gears and automated filament cutter



Figure 8: Close-up images showing the durable all-metal extruder gears and the automated filament cutter mechanism, designed for long-lasting performance.

2.4 User Interface and Monitoring

A responsive 3.2-inch touch screen provides easy navigation and can be folded away for a smaller footprint. The integrated webcam allows for real-time print monitoring and time-lapse photography, with a built-in privacy cap.

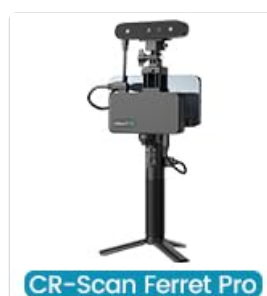


Figure 9: The compact, foldable 3.2-inch touch screen of the Creality Hi, designed for user convenience and space-saving.



Figure 10: The integrated camera with a privacy cap, enabling video monitoring of print jobs and time-lapse video creation while ensuring user privacy.

2.5 RFID-Tagged Filament Recognition

The Creality Hi features an RFID reader that automatically recognizes the color and filament type of Creality RFID filaments, enabling intelligent filament management for multi-color tasks.

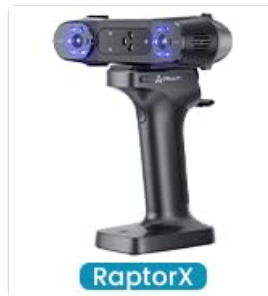


Figure 11: A hand inserting an RFID-tagged green filament spool into the CFS unit, demonstrating the automatic recognition feature.

2.6 Quiet Operation

The printer operates at a low noise level, with a silent mode of ≤ 48 dB, ensuring a quieter printing experience.

A Much Quieter Experience

Silent Mode: ≤ 48 dB



Figure 12: The Crealiti Hi Combo printer and CFS unit operating quietly in a room, indicating its low noise level for a more comfortable environment.

3. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Crealiti Hi Combo 3D Printer.

3.1 Nozzle Care

The integrated nozzle is designed for quick swapping. Ensure the nozzle is clean and free from clogs. Refer to the quick installation guide for instructions on replacing the nozzle if necessary.

Clog-free & Quick-swap Nozzle

Durable and easily swappable tri-metal nozzle.

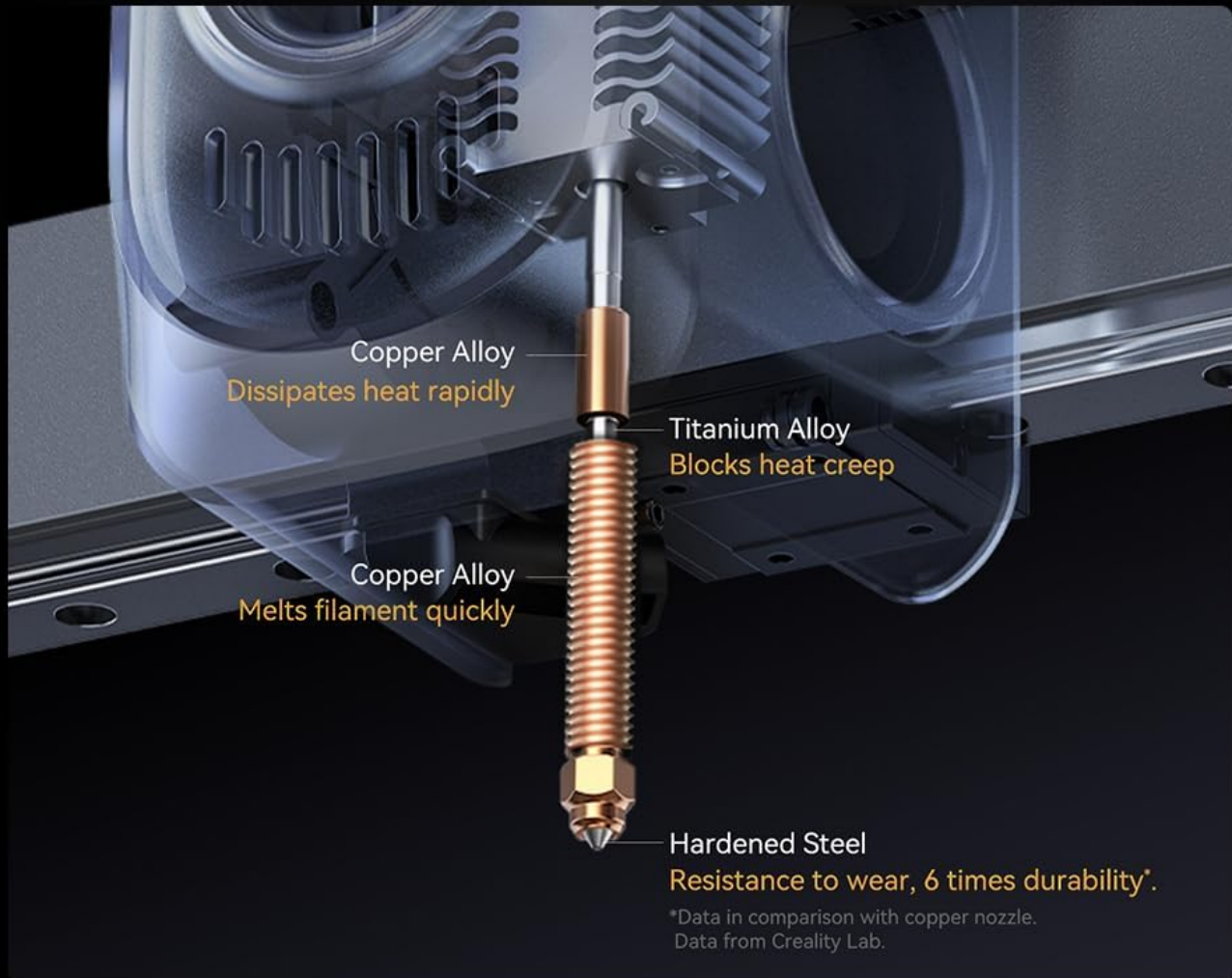


Figure 13: Detailed view of the tri-metal nozzle, highlighting its hardened steel tip, titanium alloy heatbreak, and copper alloy body for efficient heat dissipation and quick filament melting.

3.2 Extruder and Filament Path

The all-metal extruder gears are wear-resistant. Periodically inspect the filament path for any debris or obstructions. The durable filament cutter is designed to retract magnetically after cutting, minimizing wear.

Latest Techs for Capable Extrusion

Metal extruder gears and automated filament cutter



Figure 14: Close-up images showing the durable all-metal extruder gears and the automated filament cutter mechanism, designed for long-lasting performance.

3.3 Filament Run-out Sensor

The built-in filament run-out sensor helps monitor filament. Ensure the sensor is clean and functioning correctly to prevent print failures due to filament depletion or breakage.

4. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting or persistent problems, please contact customer support.

4.1 Print Quality Issues

- **Poor First Layer Adhesion:** Ensure the build plate is clean and properly leveled. The auto-leveling system should minimize this, but manual checks can be performed if issues persist.
- **Stringing or Blobs:** Adjust retraction settings in your slicing software. Ensure filament is dry, especially if using the CFS unit for humidity control.
- **Layer Shifting:** Check belt tension and ensure the printer is on a stable surface. The all-metal frame is designed to minimize shaking.

4.2 Connectivity Issues

- **Wi-Fi Connection Problems:** Verify network settings on the printer's touch screen. Ensure the printer is within range of your Wi-Fi router.
- **Software Communication:** Ensure your slicing software (Creality Print or newer versions) is up to date and correctly configured for the Creality Hi Combo.

4.3 Hardware Errors

- **Axis Errors (X/Y):** Check for any physical obstructions on the linear rails or rods. Ensure all cables are securely connected.
- **Nozzle Clogging:** Use the provided unclogging tool or perform a cold pull. The quick-swap nozzle allows for easy replacement if needed.

5. SPECIFICATIONS

5.1 Creality Hi Specifications

Feature	Detail
Product Dimensions	16.1 x 15.43 x 18.78 inches
Item Weight	29.3 pounds
Item Model Number	Creality Hi Combo
Manufacturer	Creality 3D
Material	Aluminum
Build Volume	10.24×10.24×11.81 inch (260x260x300mm)
Printing Speed	500mm/s (Max)
Acceleration	12000mm/s² (Max)
Extruder	Direct drive extruder
Nozzle Type	Durable tri-metal nozzle
Nozzle Diameter	0.4 mm (compatible with 0.6/0.8 mm)
Nozzle Temperature	≤ 300 °C

Feature	Detail
Heatbed Temperature	≤ 100 °C
Build Plate	Two-sided epoxy flexible build plate
Leveling Mode	Full-auto leveling
Display Screen	3.2" color touch screen
Filament Run-out Sensor	Yes
Auto Filament Relay	Yes (with CFS)
Supported Filaments	Hyper PLA/PLA/PETG/ABS/PLA-CF
Slicing Software	Creality Print S1 and newer versions
Max Number of Filaments	1 (without CFS); 16 (with four CFS)
RFID Filament	Yes

5.2 CFS Specifications

Feature	Detail
Product	CFS
Dimensions	379x374x276 mm
Net Weight	4.56 kg
Number of Filament Slots	4
Drying Method	Desiccant
Filament Buffer	INX&OUTX1
Number of Extensions	≤4
RFID Filament Recognition	Yes
Filament Diameter	1.75 mm
Supported 3D Printer	Creality Hi
Connection Port	Creality 485 x 2
Power Supply	DC 24V
Rated Power	20W
Status Indicator	Indicator light (white/red) x 4
Display Screen	Segment LCD showing temperature and humidity
Filament Spool/Compatibility	1 kg filament spool; diameter: 197-202 mm; thickness: 42-68 mm
Supported Filaments	PLA/PETG/ABS/ASA/PET/PLA-CF

Feature	Detail
Auto Filament Relay	Yes

6. WHAT'S IN THE BOX

- Creality Hi Combo 3D Printer
- 1x Filament Sample
- Tool Kit (includes quick change nozzle key, Allen keys, unclogging tool, snips)
- Power Cord
- Filament Buffer
- PTFE Tubing
- Instruction Manuals

7. WARRANTY AND SUPPORT

Comgrow is the first seller of Creality 3D on Amazon and provides professional support to all customers with a team of over 20 technical staff.

7.1 Protection Plans

Extended protection plans are available for purchase to cover your Creality Hi Combo 3D Printer. For example, a 4-Year Protection Plan is available for \$78.99.
For further assistance, please refer to the contact information provided with your product documentation or visit the official Comgrow store on Amazon.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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