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› FIRElood LH20 Wood Burning Kit Instruction Manual

FIRElood LH20-1

FIRElood LH20 Wood Burning Kit Instruction Manual

Model: LH20-1

1. INTRODUCTION

The FIRElood LH20 Wood Burning Kit is a professional-grade pyrography tool designed for creating detailed art on various materials. This kit features an adjustable temperature control unit, a comfortable pyrography pen, and a wide selection of wire tips, making it suitable for both beginners and experienced artists.

This manual provides essential information for the safe and effective use of your wood burning kit, including setup, operation, maintenance, and safety precautions.



Image 1.1: Overview of the FIRElood LH20 Wood Burning Kit, showing the control unit, pyrography pen, and various tips.

2. SAFETY INFORMATION

- **Always operate in a well-ventilated area** to avoid inhaling smoke and fumes produced during burning.
- **Wear appropriate safety gear**, including heat-resistant gloves and safety glasses, to protect against burns and eye injury.
- **Keep flammable materials away** from the working area.
- **Do not touch the pen tip when hot** Use the provided screwdriver or tweezers for tip changes.
- **Ensure the pen is placed securely in its stand** when not in use or during cooling.
- **Unplug the unit when not in use** or before cleaning/maintenance.
- **Keep out of reach of children and pets.**

3. PACKAGE CONTENTS

Verify that all items are present in your FIRElood LH20 Wood Burning Kit:

- 1 x Wood Burning Machine (Control Unit)
- 1 x Pyrography Pen
- 30 x Pyrography Wire Tips
- 1 x Pen Shelf (Stand)
- 1 x Screwdriver
- 1 x Sponge (for tip cleaning)
- Small Wooden Boards (for practice)
- Small Gourd (for practice)
- 1 x Engraving Pen
- 1 x User Manual (this document)



Image 3.1: All components included in the FIRElood LH20 Wood Burning Kit.

4. SETUP INSTRUCTIONS

1. **Place the Control Unit:** Position the wood burning machine on a stable, heat-resistant surface in a well-ventilated area.
2. **Connect the Pyrography Pen:** Insert the pen's connector securely into the designated port on the control unit.
3. **Prepare the Pen Stand:** Place the sponge into the pen stand. Dampen the sponge with water until it is saturated. This sponge is used to wipe off carbon residue from the pen tip during use.
4. **Install a Pen Tip:**
 - Select the desired wire tip for your project.
 - Using the provided screwdriver, loosen the two screws on the pen's tip holder.
 - Carefully insert the ends of the wire tip into the two terminals.
 - Tighten the screws firmly to ensure good electrical contact. Avoid overtightening.
5. **Power Connection:** Plug the control unit into a standard 110V power outlet.

Video 4.1: Demonstrates the setup process, including connecting the pen, preparing the sponge, and installing a pen tip.



Image 4.1: Diagram illustrating the main control unit and its connection points.



Image 4.2: Close-up view of how to install a wire tip into the pyrography pen using the provided screwdriver.



Image 4.3: Demonstrates moistening the sponge in the pen stand for cleaning the pen tip.

5. OPERATING INSTRUCTIONS

1. **Power On:** Flip the red power switch on the control unit to the 'ON' position.
2. **Adjust Temperature:** Turn the temperature control knob to your desired setting. The digital display will show the current temperature.

3. **Heating Time:** The pen tip will heat up rapidly, typically within 5-10 seconds. It is recommended to initially set the temperature to the highest setting for quick heating, then slowly lower it to your working temperature.
4. **Working Temperatures:**
 - For light colors and fine details: Approximately 250°C.
 - For very dark colors and shading: Approximately 450°C.
 - Adjust temperature up or down based on the specific wood type and desired effect.
5. **Pyrography Technique:** Hold the pen like a pencil. Apply gentle, consistent pressure to the material. Practice on scrap pieces of wood to familiarize yourself with different tips and temperature settings.
6. **Cleaning the Tip:** Periodically wipe the hot pen tip on the damp sponge in the pen stand to remove carbon buildup and maintain clean lines.
7. **Engraving Pen:** Use the engraving pen to scrape and lighten dark areas or add texture to your artwork.

Video 5.1: Demonstrates the heating process and initial use of the pyrography pen for artistic burning.



Image 5.1: A user holding the slender pyrography pen, demonstrating its ergonomic design for precise control.



Image 5.2: Examples of detailed wood burned artwork created with the kit, showcasing various tones and textures.

6. TIPS AND TECHNIQUES

The kit includes 30 different wire tips, each designed for specific lines, textures, and shading effects. Experiment with each tip on practice materials to understand its unique capabilities.

- **Universal Tips:** Ideal for general outlines, writing, and basic shading.
- **Shading Tips:** Wider tips designed for creating smooth gradients and filling larger areas.
- **Detail Tips:** Fine-point tips for intricate details, hair, fur, and delicate lines.
- **Specialty Tips:** Various shapes for unique textures, dots, or specific patterns.

LH55-1-A pen Main functions of accessories



- 1) Wood Burning pen; Pen body length 106mm/4.17" .
- 2) Hand grip area $\Phi 19\text{mm}/0.75''$ The outermost layer has a high-temperature resistant soft rubber sleeve, which feels comfortable to the touch and has good friction, making it easy to control the accuracy of the moving pen tip.
- 3) The grip of the pen is only a short distance from the tip of the pen 34mm/1.34" Easier to precisely move the pen tip and complete fine drawing tasks.



wood Burning pen tip: 30 different functional pen tips can achieve many painting effects and techniques.



Painting and carving knife: It is a necessary tool for burning wood art painting to remove defects and defects in the painting process, as well as to scrape light lines or highlights in dark areas.



tweezers: When replacing the pen tip, use it to prevent high-temperature pen tips from scalding hands or objects.



Pen tip storage box: Storage wood burning pen tip

Image 6.1: A selection of the 30 pyrography wire tips included in the kit, demonstrating their diverse shapes and sizes.

7. MAINTENANCE

- **Tip Cleaning:** Regularly wipe the hot pen tip on the damp sponge to remove carbon buildup. This prevents residue transfer to your artwork and maintains tip efficiency.
- **Sponge Maintenance:** Ensure the sponge remains damp during use. Replace the sponge if it becomes excessively dirty or worn.
- **Storage:** After use, allow the pen and tips to cool completely. Store the tips in the provided storage box to prevent damage and loss. Store the entire kit in a dry, safe place.
- **Pen Tip Replacement:** When replacing tips, always ensure the unit is unplugged and the pen is cool. Use the screwdriver to loosen and tighten the screws.

8. TROUBLESHOOTING

- **Pen tip not heating:**

- Check if the power switch is ON and the unit is plugged in.
 - Ensure the pen tip is correctly installed and the screws are tightened firmly to establish good electrical contact.
 - Verify the temperature setting is not too low.
- **Inconsistent burning:**
 - Clean the pen tip on the damp sponge to remove carbon buildup.
 - Adjust the temperature setting. Different wood types and densities require different temperatures.
 - Ensure consistent pressure and movement during burning.
 - **Excessive smoke:**
 - Reduce the temperature setting.
 - Ensure adequate ventilation in your workspace.

9. SPECIFICATIONS

Feature	Specification
Brand	FIRElood
Model Number	LH20-1
Power Source	Corded Electric
Voltage	120 Volts
Wattage	25 watts
Upper Temperature Rating	800 Degrees Celsius (700°C for practical use)
Handle Material	Nylon
Item Weight	2 Pounds
Special Features	Heat Resistance Handles, Digital Temperature Display

10. WARRANTY AND SUPPORT

The FIRElood LH20 Wood Burning Kit mainframe comes with a**1-year warranty**.

For any issues during use, please contact FIRElood customer support. If a pen nib is damaged during shipping, a replacement pen will be sent immediately.



Image 10.1: Information regarding FIRElood's customer service and warranty policy.

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