LJPXHHU LJPXHHU-1

LJPXHHU 80W LCD Adjustable Temperature Soldering Iron Kit User Manual

Model: LJPXHHU-1

1. Introduction

This manual provides detailed instructions for the safe and effective use of your LJPXHHU 80W LCD Adjustable Temperature Soldering Iron Kit. This versatile 13-in-1 kit is designed for various applications, including electronics repair, DIY projects, and general welding tasks. It features precise temperature control, rapid heating, and a convenient ON/OFF switch for enhanced safety and energy efficiency.

2. What's Included

Your LJPXHHU Soldering Iron Kit comes with the following components:

- 80W Electric Soldering Iron with LCD Display
- 5 Interchangeable Soldering Iron Tips (900M series: 0.2mm, 1.2mm, 2.4mm, 3mm, 5mm)
- Soldering Iron Holder with Cleaning Sponge
- 50g 0.8mm Rosin Cored Soldering Wire
- 50g No-Clean Rosin Flux Paste
- Desoldering Pump
- Wire Stripper and Cutter
- Anti-static Tweezers
- PU Tool Case for storage and transport

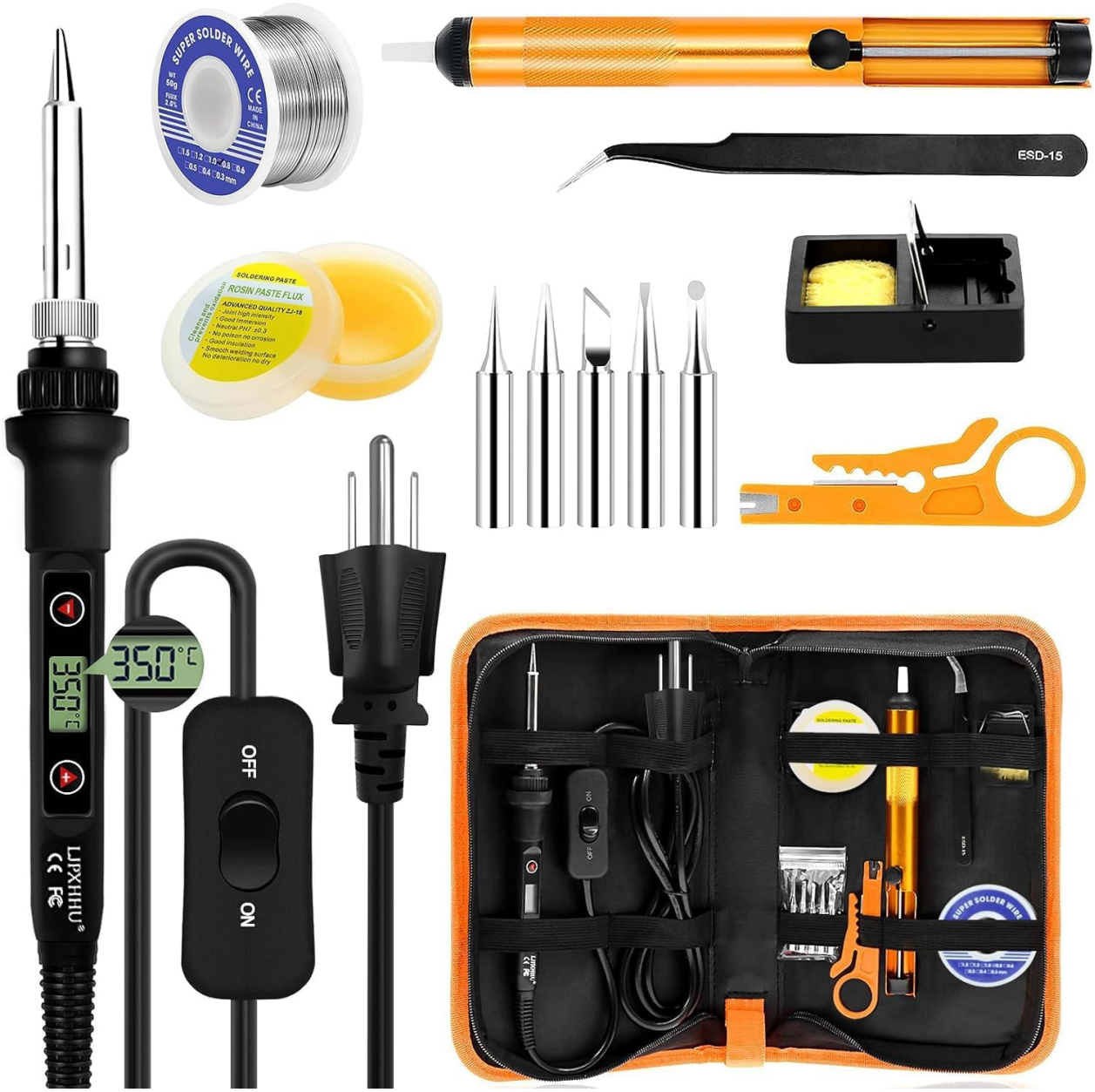

Image: The complete LJPXHHU 80W Soldering Iron Kit, showcasing all 13 components neatly arranged.

Image: A visual representation of the 13-in-1 Soldering Iron Kit components, including the desoldering pump, various tips, and the main soldering iron.

3. Setup

1. **Prepare the Soldering Iron:** Select the appropriate soldering tip for your task and securely attach it to the iron. Ensure the tip is clean.
2. **Wet the Sponge:** Dampen the cleaning sponge with water. The sponge should be moist, not soaking wet, to effectively clean the soldering tip.
3. **Connect Power:** Plug the soldering iron into a suitable power outlet.
4. **Turn On:** Use the ON/OFF switch located on the power cord to activate the soldering iron. The LCD display will illuminate.
5. **Adjust Temperature:** Use the '+' and '-' buttons on the handle to set your desired temperature. The iron heats up quickly, typically within 15 seconds.

Image: Step 1 of the soldering process, showing how to wet the cleaning sponge.

Image: Instructions for converting the temperature display between Celsius and Fahrenheit on the soldering iron.

Video: Short demonstration of turning the LJPXHHU 80W Soldering Iron on and off, and adjusting the temperature using the integrated controls.

4. Operating Instructions

4.1. Temperature Adjustment

The soldering iron features an LCD display for precise temperature control. You can adjust the temperature from 180°C to 520°C (356°F to 968°F) using the '+' and '-' buttons. To switch between Celsius and Fahrenheit, simultaneously press the '+' and '-' buttons while the iron is plugged in but before turning it on. Release the buttons, then turn on the switch. To exit the setting state, press both buttons simultaneously again.

Image: Detailed view of the soldering iron's LCD screen and temperature adjustment buttons.

4.2. Soldering Process

1. **Prepare Components:** Ensure the components and PCB pads are clean and free of oxidation. Apply a small amount of rosin flux paste to the area to be soldered.
2. **Heat the Joint:** Place the hot soldering iron tip against both the component lead and the PCB pad simultaneously. Heat them for a few seconds.
3. **Apply Solder:** Once the joint is hot enough, touch the solder wire to the joint (not directly to the iron tip). The solder should melt and flow smoothly around the joint, forming a shiny, cone-shaped connection.
4. **Remove Solder and Iron:** Remove the solder wire first, then lift the soldering iron. Allow the joint to cool naturally without disturbing it.
5. **Clean the Tip:** Wipe the soldering tip on the wet sponge after each use to remove excess solder and flux residue.

Image: Visual steps for the soldering process, from applying flux to cleaning the tip.

4.3. Desoldering Process

To remove solder, use the included desoldering pump:

1. **Prime the Pump:** Push the plunger down until it clicks into place.
2. **Heat the Solder:** Place the hot soldering iron tip on the solder joint you wish to remove until the solder melts.
3. **Remove Solder:** Quickly remove the soldering iron and immediately place the nozzle of the desoldering pump over the molten solder. Press the release button on the pump to suck up the solder.
4. **Repeat if Necessary:** If all solder is not removed, repeat the process.

Image: Step-by-step instructions for using the desoldering pump.

Video: Demonstration of the LJPXHHU 80W Soldering Iron Kit, showcasing its components and basic operation, including temperature adjustment and use of accessories.

5. Maintenance

- **Tip Cleaning:** Always clean the soldering tip on the wet sponge before and after each use. For stubborn residue, use brass wool (not included) or a tip tinner.
- **Tip Tinning:** After cleaning, apply a small amount of fresh solder to the tip to prevent oxidation and prolong its life.
- **Storage:** When not in use, turn off the soldering iron using the ON/OFF switch and unplug it. Allow it to cool completely before storing it in the provided PU tool case.
- **General Cleaning:** Keep the soldering iron handle and display clean by wiping with a dry cloth. Avoid using abrasive cleaners or solvents.

6. Troubleshooting

- **Iron Not Heating:**
  - Ensure the power cord is securely plugged into a working outlet.
  - Verify that the ON/OFF switch on the cord is in the 'ON' position.
  - Check the LCD display for any error messages or if it's completely blank.
- **Solder Not Melting or Flowing Poorly:**
  - Increase the set temperature on the soldering iron.
  - Ensure the soldering tip is clean and tinned. An oxidized tip will not transfer heat effectively.
  - Apply fresh flux to the joint before attempting to solder.
  - Confirm you are heating both the component lead and the pad, not just the solder.
- **Solder Not Sticking to Components/Pads:**
  - Clean the surfaces of the components and PCB pads thoroughly. Oxidation can prevent solder adhesion.
  - Use sufficient flux to aid in wetting and bonding.
  - Ensure the joint is heated adequately before applying solder.

7. Specifications

Feature	Specification
Brand	LJPXHHU
Model Number	LJPXHHU-1
Wattage	80 watts
Temperature Range	180°C-520°C (356°F-968°F)
Temperature Control	Digital LCD with +/- buttons (5°C precise adjustment)
Heating Time	Approximately 15 seconds to reach working temperature
Power Source	Corded Electric
Special Features	Portable, ON/OFF Switch, Efficient Heat Dissipation (4 ventilation holes), Anti-scalding Handle
Handle Material	Polycarbonate (PC)
Item Weight	0.48 Kilograms (1.06 pounds)
Included Components	Soldering Iron Tips (5), Solder Wire, Flux, Desoldering Pump, Anti-static Tweezers, Soldering Iron Stand

8. Warranty and Support

LJPXHHU provides a **2-YEARS Quality Guarantee** against faulty materials and workmanship for this soldering iron kit. If you encounter any issues within 24 months of your purchase, please contact LJPXHHU customer support for assistance or replacement.
For further support or inquiries, please refer to the contact information provided with your product packaging or visit the official LJPXHHU store on Amazon: LJPXHHU Store.