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Sumsour 60W Digital SET-1

Sumsour 60W Soldering Iron

User Manual

Model: 60W Digital SET-1

Product Overview

The Sumsour 60W Soldering Iron with LCD Digital Display is a versatile tool designed for various welding and repair tasks. It features precise temperature control, rapid heating, and a durable ceramic heating element, making it suitable for both hobbyists and professionals.



Image: The Sumsour 60W Soldering Iron, showcasing its ergonomic handle, LCD digital display, control buttons, and power cord with a US plug.

Key Features:

- **Digital Temperature Control:** LCD display for clear and accurate temperature readings, with microcomputer control ensuring temperature error is less than ±1°C.
- **Rapid Heating:** Equipped with a ceramic heating element for quick heat-up and stable temperature maintenance.
- **Durable Construction:** High-quality heater and handle made from special high-temperature resistant, ESD antistatic material.
- **Portable and Efficient:** Compact design with 60W power for energy-saving and high working efficiency.
- **Versatile Applications:** Suitable for chip removal, general soldering, and various repair tasks.

Safety Instructions

Please read and understand all safety instructions before using the soldering iron. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Always use the soldering iron in a well-ventilated area to avoid inhaling fumes from solder and flux.
- **Heat Hazard:** The soldering iron tip reaches very high temperatures (up to 450°C). Do not touch the tip or metal parts near it. Allow the iron to cool completely before handling or storing.
- **Work Surface:** Use a heat-resistant work surface. Keep flammable materials away from the soldering area.
- **Power Connection:** Ensure the power cord is in good condition and properly plugged into a grounded outlet. Do not use if the cord is damaged.
- **Children and Pets:** Keep the soldering iron out of reach of children and pets.
- **Unplug When Not In Use:** Always unplug the soldering iron when not in use or before performing any maintenance.
- **Eye Protection:** Wear safety glasses to protect your eyes from splashes of molten solder or flux.
- **Proper Use:** Use the tool only for its intended purpose. Do not modify the soldering iron.

Package Contents

Verify that all items are present in your package:

- 1 x Sumsour 60W LCD Digital Display Soldering Iron (110V US Plug)
- 1 x Standard Soldering Tip (900M series)
- Additional Soldering Tips (if included in your specific set)



Image: Components of the soldering iron kit, including the main unit, a standard tip, and an additional tip, along with a protective cap.

Setup

1. **Prepare Work Area:** Ensure your work area is clean, well-ventilated, and free of flammable materials. Place a heat-resistant mat or stand for the soldering iron.
2. **Attach Soldering Tip:**
   - Unscrew the metal retaining nut at the base of the soldering iron tip.
   - Carefully insert the desired soldering tip into the heating element.
   - Screw the retaining nut back on firmly, but do not overtighten.



Image: A close-up view of the soldering iron tip and its retaining nut, illustrating how the tip is secured to the heating element.

3. **Connect Power:** Plug the soldering iron's US plug into a standard 110V AC grounded electrical outlet.

Operating Instructions



Image: A detailed diagram labeling the parts of the soldering iron, including the soldering tips, heat dissipation hole, silicone sheath, temperature buttons (+/-), temperature display screen, tail line protection sleeve, copper core power cord, and US plug.

1. **Power On:** Once plugged in, the LCD display will illuminate, showing the current temperature.
2. **Adjust Temperature:**
   - Use the "**+**" button to increase the temperature.
   - Use the "**-**" button to decrease the temperature.
   - The temperature range is 200°C to 450°C. The display shows the temperature in Celsius.
   - The iron will rapidly heat up to the set temperature.
3. **Tinning the Tip:** Before first use or after cleaning, "tin" the tip by applying a small amount of solder to the heated tip. This helps prevent oxidation and ensures efficient heat transfer.
4. **Soldering:**

- Clean the components to be soldered.
- Place the hot soldering iron tip against both the component lead and the PCB pad simultaneously to heat them.
- Apply solder to the heated joint, not directly to the iron tip. The solder should flow smoothly and create a shiny, conical joint.
- Remove the solder, then remove the iron. Allow the joint to cool naturally without disturbance.

5. **Power Off:** Unplug the soldering iron from the power outlet when finished. Allow it to cool down completely before storing.

Maintenance

- **Tip Cleaning:**
  - Regularly wipe the hot tip on a damp sponge or brass wire cleaner to remove excess solder and oxidation.
  - Re-tin the tip after cleaning to protect it from oxidation.
- **Tip Replacement:** If the tip becomes pitted, corroded, or no longer accepts solder, it should be replaced. Ensure the iron is cool before changing tips.
- **General Cleaning:** Wipe the body of the soldering iron with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the soldering iron in a dry, safe place once it has completely cooled down. Use the protective cap if provided.

Troubleshooting

Problem	Possible Cause	Solution
Iron not heating up.	Not plugged in; faulty power outlet; internal component failure.	Check power connection; try a different outlet; contact support if issue persists.
Temperature display is inaccurate or fluctuating.	Loose tip; faulty sensor; extreme ambient temperature.	Ensure tip is securely fastened; operate in a stable environment; contact support.
Solder does not melt or flow well.	Tip is dirty or oxidized; temperature set too low; incorrect solder type.	Clean and re-tin the tip; increase temperature; ensure appropriate solder is used.
Tip discolors or turns blue.	Overheating; lack of tinning; prolonged exposure to air at high temperatures.	Reduce temperature; ensure tip is properly tinned; clean and re-tin regularly.

Specifications



Image: The soldering iron unit with key dimensions indicated, including overall length, handle width, and cord length, along with approximate weight.

Brand:	Sumsour
Model:	60W Digital SET-1
Power:	60W
Voltage:	100-120V AC, 60Hz (US Plug)
Temperature Range:	200°C - 450°C (392°F - 842°F)
Temperature Stability:	±1°C
Heater Type:	Ceramic heater A1324
Tip Series:	900M series
Dimensions (approx.):	230mm x 23mm (Length x Diameter)

Weight (approx.):	90 Grams (3.17 ounces)
Cord Length:	1.2 Meters (approx. 51.18 inches)

Warranty and Support

Warranty: This Sumsour 60W Soldering Iron comes with a three-month warranty from the date of purchase. This warranty covers manufacturing defects under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

Customer Support: For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact Sumsour customer support through the retailer where the product was purchased. Please have your purchase receipt and product model number ready when contacting support.

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