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Sumsour 80W Soldering Iron

Sumsour 80W Gray Soldering Iron Instruction Manual

Model: Gray 80W Blue Bag Kit | Brand: Sumsour

1. Introduction

This manual provides essential information for the safe and effective use of your Sumsour 80W Gray Soldering Iron. Please read these instructions carefully before operation and retain them for future reference.

1.1 Safety Warnings

- Always wear appropriate eye protection (safety glasses) when soldering.
- Work in a well-ventilated area to avoid inhaling solder fumes.
- The soldering iron tip reaches very high temperatures (up to 500°C / 932°F). Avoid direct contact with skin or flammable materials.
- Always place the soldering iron securely in its stand when not in active use.
- Keep the device out of reach of children and pets.
- Unplug the soldering iron from the power outlet when not in use, during maintenance, or when changing tips.
- Use only in dry environments. Do not expose to moisture or liquids.
- Ensure the power supply matches the specified voltage (AC110V).

2. Package Contents

Verify that all items listed below are included in your package:

- 1x Sumsour 80W Soldering Iron (110V US Plug)
- 1x Solder Wire
- 1x Soldering Iron Stand
- 1x Cleaning Sponge
- 5x Interchangeable Iron Tips (900M-T-B type)
- 1x Brush
- 1x ESD Tweezers
- 1x Solder Wick (CP-2015)
- 1x Solder Sucker (Desoldering Pump)
- 1x Copper Wire

- 1x Blue Storage Bag

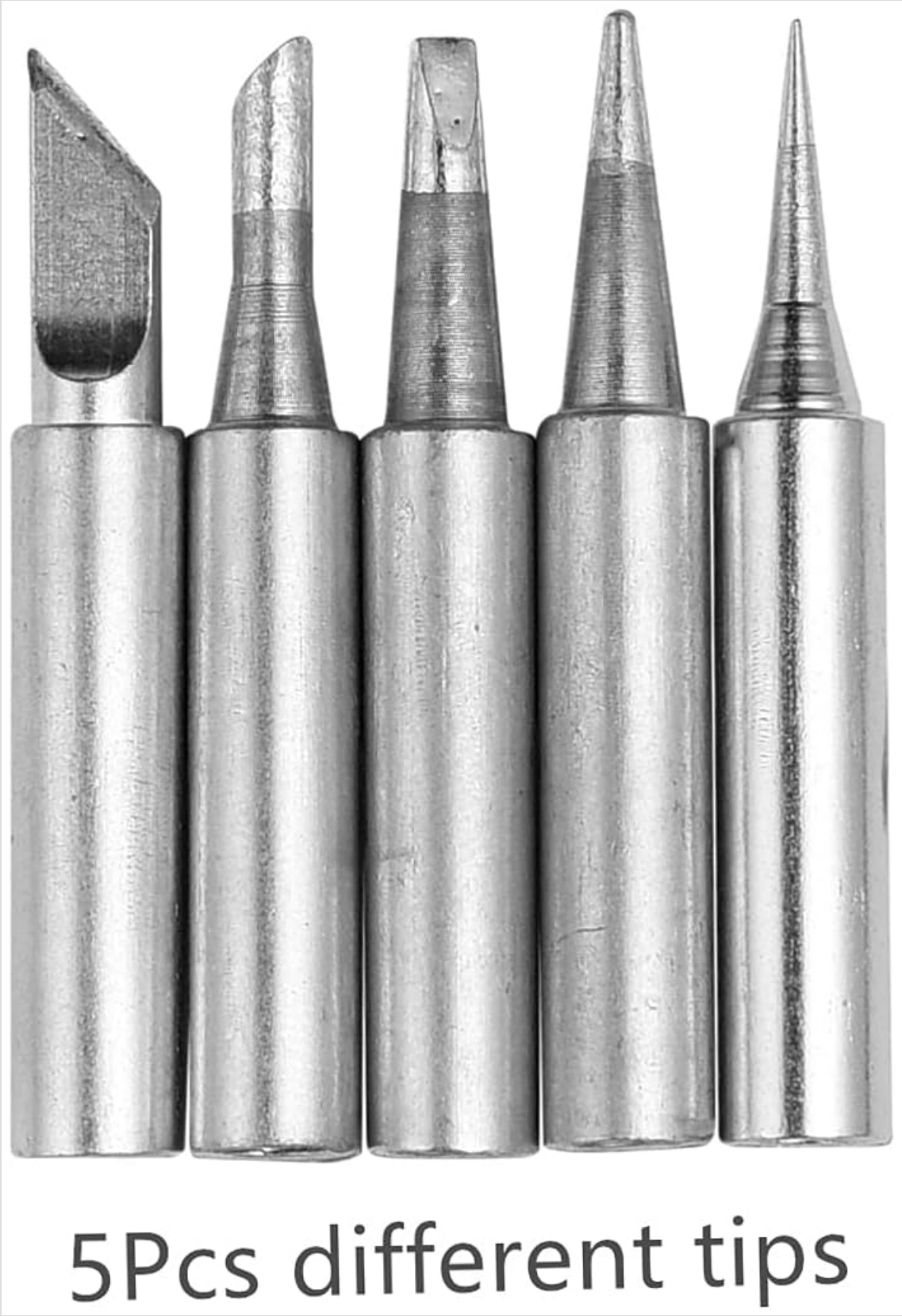


Image 2.1: All components of the Sumsour 80W Soldering Iron kit, neatly packed in the blue storage bag.

3. Product Overview

The Sumsour 80W Gray Soldering Iron is a portable, digitally controlled tool designed for various electronic and electrical repair tasks. It features a rapid heating ceramic element and precise temperature control.



Image 3.1: The Sumsour 80W Gray Soldering Iron, showing its ergonomic design and power cord.

3.1 Key Features

- **80W Power:** Provides efficient heating for various soldering applications.
- **Adjustable Temperature:** Digital control from 180°C to 500°C (356°F to 932°F).
- **Digital Display:** Clear LCD screen shows the set and current temperature.
- **Ceramic Heating Element:** Ensures quick warming-up and stable temperature.
- **ESD Design:** Protects sensitive electronic components from electrostatic discharge.
- **Portable:** Compact and lightweight design for easy handling and transport.
- **Interchangeable Tips:** Comes with 5 different tips for versatile use.



Image 3.2: Detailed diagram highlighting the key components of the soldering iron, such as ventilation holes, silicone non-slip sleeve, LED digital display, temperature adjustment buttons, interchangeable tips, and the anti-broken line feature.

4. Setup

1. **Unpack:** Carefully remove all components from the packaging.
2. **Position Stand:** Place the soldering iron stand on a stable, heat-resistant, and non-flammable surface. Ensure it is easily accessible during operation.
3. **Prepare Sponge:** If using the cleaning sponge, dampen it slightly with water. Do not saturate it.
4. **Attach Tip:** Select the desired soldering tip and securely screw it onto the heating element of the soldering iron. Ensure it is tightened sufficiently but do not overtighten.
5. **Connect Power:** Plug the soldering iron's power cord into a standard AC110V power outlet.



Image 4.1: The metal soldering iron stand, designed to safely hold the hot iron when not in use.

5. Operating Instructions

1. **Power On:** Once plugged in, the soldering iron will power on, and the digital display will show the current temperature.
2. **Adjust Temperature:** Use the **+** and **-** buttons located on the handle to set your desired working temperature. The temperature range is 180°C to 500°C (356°F to 932°F). The iron will rapidly heat up to the set temperature.
3. **Tinning the Tip:** Before the first use, or after cleaning, apply a small amount of solder to the heated tip. This process, known as 'tinning', helps improve heat transfer and prevents oxidation, extending tip life.
4. **Soldering Process:**
    - Ensure the components and PCB pads are clean.
    - Apply the hot soldering iron tip to both the component lead and the PCB pad simultaneously to heat the joint.
    - Once the joint is sufficiently hot, apply solder to the joint itself, not directly to the iron tip. The solder should melt and flow smoothly around the joint.
    - Remove the solder, then remove the iron. Allow the joint to cool naturally without disturbance.
5. **Power Off:** When you have finished soldering, unplug the soldering iron from the power outlet. Allow it to cool completely in its stand before storing.



Image 5.1: Close-up view of the soldering iron's digital display and the '+' and '-' buttons for temperature adjustment.

6. Maintenance

6.1 Tip Cleaning

Regular cleaning of the soldering tip is crucial for optimal performance and longevity.

- During operation, periodically wipe the hot tip on a damp sponge or brass wire cleaner to remove excess solder and oxidation.
- Always re-tin the tip with a small amount of fresh solder immediately after cleaning.

6.2 Tip Replacement

The soldering iron comes with 5 interchangeable tips. Replace tips when they become worn or damaged.

1. Ensure the soldering iron is unplugged and has cooled down completely to prevent burns.
2. Carefully unscrew the retaining nut or sleeve that holds the tip in place.

3. Gently pull out the old tip.
4. Insert the new tip into the heating element.
5. Screw the retaining nut/sleeve back on, ensuring the tip is secure. Do not overtighten.



Image 6.1: Illustration of how to insert or remove a soldering tip from the iron's heating element.



Image 6.2: The five different soldering iron tips included with the kit, offering versatility for various soldering tasks.

6.3 General Care

- Keep the soldering iron and all accessories clean and free from dust and debris.
- Store the kit in the provided blue bag in a dry, safe place when not in use.

7. Troubleshooting

Problem	Possible Cause	Solution
Iron not heating up.	No power supply; Temperature set too low.	Check power connection and outlet; Increase temperature setting.
Solder not melting or poor solder joints.	Tip is oxidized or not tinned; Temperature too low; Insufficient contact with joint; Old solder.	Clean and re-tin tip; Increase temperature; Ensure good contact; Use fresh solder.
Digital display not working.	Power issue; Internal fault.	Check power connection. If problem persists, contact customer support.

8. Specifications

Feature	Specification
Brand	Sumsour
Model Number	Gray 80W Blue Bag Kit
Power	80W

Feature	Specification
Input Voltage	AC110V
Frequency	60Hz
Temperature Range	180~500°C / 356~932°F
Temperature Stability	±5°C
Heating Type	Wmore Ceramics Element
Soldering Iron Tips	900M-T-B (5pcs included)
Wire Length	1.4m / 55.12in
Item Weight	0.48 Pounds (approx. 218g)
Item Length	7.8 Inches
Special Feature	Portable, Digital Display, ESD Safe
Included Components	Soldering Iron, Solder Wire, Iron Stand, Sponge, 5 Iron Tips, Brush, ESD Tweezers, Solder Wick, Sucker, Copper Wire, Blue Bag

9. Warranty and Support

For warranty information, technical assistance, or customer support, please refer to the product packaging or contact Sumsour customer service directly through their official channels. Please have your model number (Gray 80W Blue Bag Kit) and purchase details ready when contacting support.

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