Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Sumsour Grey 905

Sumsour 80W Electric Soldering Iron Model Grey 905 User Manual

Adjustable Temperature Welding Desoldering Repair Tool

Introduction

This manual provides instructions for the safe and effective use of your Sumsour 80W Electric Soldering Iron, Model Grey 905. This compact soldering tool features an LCD digital display for precise temperature control, making it suitable for various electronic and electrical repair tasks. It is designed for lead-free soldering semiconductors and is ideal for hobbies, kits, radios, laptops, computers, and general electronics work.

Safety Information

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

- **Heat Hazard:** The soldering iron tip reaches very high temperatures (up to 500°C / 932°F). Avoid direct contact with the tip or heating element.
- **Fire Hazard:** Always place the hot soldering iron in its metal stand when not in use. Keep flammable materials away from the working area.
- **Fume Hazard:** Soldering produces fumes. Work in a well-ventilated area or use a fume extractor. Avoid inhaling fumes directly.
- **Electrical Safety:** Ensure the power cord is not damaged. Do not operate the soldering iron in wet conditions. Always unplug the iron when changing tips or when not in use.
- **Eye Protection:** Always wear safety glasses to protect your eyes from solder splashes and fumes.
- **Children and Pets:** Keep the soldering iron and all related materials out of reach of children and pets.
- **ESD Protection:** The soldering iron features an ESD design to protect sensitive electronic components. However, additional ESD precautions (e.g., wrist strap, mat) are recommended when working with sensitive electronics.

Package Contents

Verify that all items are present in your package:

- 1x Sumsour 80W Electric Soldering Iron
- 1x Metal Soldering Iron Stand

- 1x Solder Wire



Figure 1: Detailed diagram of the soldering iron components.

Product Features

- 80W Electric Soldering Iron with Digital Display and Adjustable Temperature.
- Extremely low noise and space-saving design.
- LCD digital display for precision temperature monitoring.
- Microcomputer control for quick warming-up.
- PID technology to enhance temperature stability.
- ESD design of soldering iron to protect sensitive components.
- International standard heater for convenient use and exchange of tips.
- Includes a metal stand for safe placement of the hot iron.

Setup

1. **Unpack Components:** Carefully remove all items from the packaging.
2. **Assemble Stand:** Ensure the metal soldering iron stand is assembled correctly and placed on a stable, heat-resistant surface.
3. **Install Soldering Tip:** Ensure a soldering tip is securely screwed into the heating element. The iron comes with a 900M-T-B tip installed.



Figure 2: Soldering iron tip assembly.

4. **Connect Power:** Plug the soldering iron's power cord into a standard AC110V outlet.
5. **Initial Placement:** Place the soldering iron securely in its metal stand before turning it on.



Figure 3: Included metal soldering iron stand.

Operating Instructions

1. **Power On:** Press the red power button (often marked with an asterisk or power symbol) on the handle to turn on the soldering iron. The LCD digital display will illuminate.



Figure 4: Control panel with LCD display and buttons.

2. **Adjust Temperature:** Use the blue '+' and '-' buttons to adjust the desired temperature. The temperature range is 180°C to 500°C (356°F to 932°F). The LCD will show the set temperature and then the current temperature as it heats up.
3. **Heating:** The iron will quickly reach the set temperature due to its microcomputer control and PID technology. Wait for the temperature to stabilize before use.
4. **Soldering:**
    - Ensure the tip is clean and tinned (coated with a thin layer of solder).
    - Touch the hot tip to the joint to be soldered, heating both the component lead and the pad simultaneously.
    - 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 wire, then remove the soldering iron. Allow the joint to cool without disturbance.

5. **Power Off:** When finished, press the red power button again to turn off the soldering iron. Unplug the unit from the power outlet.
6. **Cool Down:** Allow the iron to cool completely in its stand before storing.

Maintenance

- **Tip Cleaning:** Regularly clean the soldering tip using a damp sponge or brass wool to remove excess solder and oxidation. A clean tip ensures efficient heat transfer.
- **Tip Tinning:** After cleaning and before storage, always tin the tip with a small amount of fresh solder. This prevents oxidation and prolongs tip life.
- **Tip Replacement:** If the tip becomes corroded or damaged, it can be replaced. Ensure the iron is unplugged and cool. Unscrew the retaining collar, remove the old tip, insert a new 900M series tip, and re-tighten the collar.



Figure 5: Replacing a soldering tip.

- **Storage:** Store the soldering iron in a dry, safe place once it has completely cooled down.

Troubleshooting

Problem	Possible Cause	Solution
Iron does not heat up or turns on intermittently.	• Power cord not fully plugged in. • Faulty power outlet. • Internal wiring issue (rare).	• Check power connection. • Try a different outlet. • If problem persists, discontinue use and contact support.
Iron does not melt solder effectively.	• Temperature set too low. • Tip is oxidized or dirty. • Incorrect tip for the task (e.g., too small). • Insufficient wattage for large components/wires.	• Increase temperature using '+' button. • Clean and re-tin the tip. • Consider using a larger tip if available. • Ensure the 80W power is sufficient for your application.
Solder does not flow smoothly.	• Tip is not clean or tinned. • Joint is not sufficiently heated. • Old or poor quality solder.	• Clean and re-tin the tip. • Ensure the tip heats both the component lead and pad. • Use fresh, good quality solder.

Specifications

Feature	Detail
Brand	Sumsour
Model Number	Grey 905
Power Source	Corded Electric
Voltage	AC110V
Wattage	80W
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 (standard), interchangeable with 900M series tips
Wire Length	1.4m / 55.12in
Item Weight	Approximately 100g (iron only) / 5 ounces (total package weight listed)
Special Features	LCD Digital Display, Adjustable Temperature, Portable, ESD Design, Quick Warming-up, PID Technology
Specific Uses	Industrial Use, Residential Use, Phone/Computer Repair, Circuit Board Repair, Hobbies, Electronics Work

Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or contact Sumsour customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

© 2026 Sumsour. All rights reserved. Model: Grey 905.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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.

Submit question

Answered questions about this manual

How can I calibrate the Sumsour Grey 905 soldering iron, and are there other hidden functions like switching between Celsius and Fahrenheit or setting an automatic shut-off?

Based on the manual for the Sumsour Grey 905, here is the information regarding calibration and additional functions: Temperature Calibration: While the manual mentions the use of PID technology and microcomputer control for temperature...

Read full answer

Open the live page

https://manuals.plus/asin/B0DNHRXF96

More documents and user manuals: **https://manuals.plus/**