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Sumsour 858D

Sumsour 858D 700W Hot Air Rework Station User Manual

Model: 858D

Introduction

This user manual provides comprehensive instructions for the safe and effective operation of your Sumsour 858D 700W Hot Air Rework Station. This device is designed for BGA, SMD, and SMT welding, soldering, and desoldering applications, offering precise temperature control and efficient airflow for various electronic repair tasks.

Please read this manual thoroughly before using the product and retain it for future reference.

Safety Information

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the device is connected to a 110V power supply.
- Do not operate the unit near flammable materials or gases.
- The hot air gun operates at high temperatures (up to 450°C). Avoid direct contact with the nozzle or heated components.
- Always place the hot air gun handle in its designated holder when not in use. The unit features an intelligence self-detection function that automatically cools down and enters standby mode when the handle is placed in the holder, and stops rotation when the temperature is below 70°C.
- Allow the unit to cool completely before storage or maintenance. The automatic cooling function helps prolong the heater's life.
- The soldering iron (if included in your set) has an ESD design to protect sensitive electronic components.
- Keep the work area well-ventilated to dissipate fumes.
- Wear appropriate personal protective equipment, including safety glasses and heat-resistant gloves.

Package Contents (SET-2)

Verify that all items are present in your package:

- 1x Main Unit (Sumsour 858D)
- 1x Power-line (US Plug)
- 1x Hot Air Gun Handle

- 3x Air Nozzles
- 1 set 6-in-1 Solder Assist Tools
- 3x Anti-static Tweezers
- 2x Solder Wire
- 1x Hot Air Heating Element (Spare)
- 1x Solder Wick CP-2015



Image: Complete contents of the Sumsour 858D Hot Air Rework Station SET-2 package, including the main unit, hot air gun, nozzles, solder assist tools, tweezers, solder wire, heating element, and solder wick.

Product Overview

Familiarize yourself with the components of your Sumsour 858D Hot Air Rework Station.



Image: Diagram showing the main unit with labeled components: Gun stand, Hot air gun, Nozzles, Temperature Display, Temperature "+" button, Temperature "-" button, Wind Regulation knob, Power Switch, and Connector for the hot air gun.

- **Main Unit:** Houses the control circuitry, power supply, and display.
- **Hot Air Gun:** The primary tool for heating and desoldering.
- **Nozzles:** Interchangeable tips for directing airflow to specific areas.
- **Temperature Display:** Digital LCD display showing the current temperature.
- **Temperature Control Buttons:** Adjust the desired temperature.
- **Airflow Control Knob:** Adjusts the intensity of the hot air flow.
- **Power Switch:** Turns the unit on or off.
- **Hot Air Gun Holder:** Provides a safe resting place for the hot air gun, activating standby mode.



Image: Close-up view of the hot air gun handle, showing its ergonomic design and cable connection.



Image: Three different sizes of metal nozzles for the hot air gun, designed to concentrate airflow for various component sizes.

Setup

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Placement:** Place the main unit on a stable, heat-resistant surface in a well-ventilated area. Ensure sufficient space around the unit for heat dissipation.
3. **Attach Hot Air Gun:** Connect the hot air gun handle to the designated connector on the main unit. Ensure a secure connection.
4. **Install Nozzle:** Select the appropriate nozzle for your task and securely attach it to the hot air gun.
5. **Power Connection:** Connect the power-line to the main unit and then to a standard 110V AC outlet.



Image: The back panel of the Sumsour 858D main unit, showing the power input socket and product information.

6. **Handle Holder:** Attach the plastic holder for the hot air gun to the side of the main unit. This holder is crucial for the automatic standby function.



Image: The Sumsour 858D main unit with the hot air gun securely placed in its side-mounted holder, ready for operation or in standby mode.

Operating Instructions

1. **Power On:** Flip the power switch on the front panel to the "ON" position. The LCD display will illuminate, showing the current temperature.
2. **Set Temperature:** Use the "Temperature +" and "Temperature -" buttons to set the desired working temperature. The unit features PID technology for stable temperature control. Common temperatures for desoldering SMD components range from 300°C to 400°C, depending on the solder type and component sensitivity.
3. **Adjust Airflow:** Rotate the "AIR" knob to adjust the airflow intensity. Start with a lower setting and increase as needed. Excessive airflow can blow away small components.
4. **Heating Up:** The unit will quickly heat up to the set temperature. The LCD display will show the temperature rising.

5. **Operation:**
    - Pick up the hot air gun from its holder. The unit will exit standby mode and begin heating/blowing air at the set parameters.
    - Direct the hot air nozzle towards the component to be worked on. Maintain a small distance to avoid overheating the component or surrounding areas.
    - Move the hot air gun in a circular motion to ensure even heating.
    - Once the solder melts, carefully remove the component using tweezers or other appropriate tools.
6. **Standby Mode:** When you finish using the hot air gun, place it back into its holder. The unit will automatically detect this, initiate a cooling cycle, and enter standby mode when the temperature drops below 70°C. This prolongs the life of the heating element.
7. **Power Off:** After the unit has cooled down and entered standby, you can turn off the main power switch.

Applications: This hot air rework station is suitable for various tasks including heating shrink tubing, drying, lacquer removal, viscidity removal, ice-out, pre-heating, and glue soldering.

Maintenance

Regular maintenance ensures optimal performance and longevity of your rework station.

- **Cleaning:** Ensure the unit is powered off and cooled before cleaning. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Nozzle Cleaning:** Periodically clean the nozzles to prevent blockages from flux residue. Use a brush or fine wire if necessary.
- **Heating Element Replacement:** If the hot air gun's heating performance degrades, the heating element may need replacement. Refer to the included spare heating element. Ensure the unit is unplugged and completely cool before attempting replacement.
- **Storage:** Store the unit in a dry, dust-free environment when not in use.

Troubleshooting

If you encounter issues, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; loose power cable; faulty power switch.	Check power outlet and cable connection. Ensure power switch is ON.
Hot air gun not heating.	Heating element failure; loose connection to main unit; unit in standby mode.	Ensure hot air gun is securely connected. Pick up the gun from the holder to exit standby. If still not heating, the heating element may need replacement.
Insufficient airflow.	Airflow knob set too low; blocked nozzle.	Adjust the "AIR" knob to a higher setting. Clean the nozzle for any obstructions.
Temperature unstable or inaccurate.	Sensor issue; environmental factors.	Ensure the unit is not in a drafty area. If the problem persists, contact support.

Specifications

Feature	Detail
Model	858D
Input Voltage	110V
Hot Air Gun Power	700W
Temperature Control Range	100°C ~ 450°C
Temperature Stability	± 1°C
Airflow	120L/min (max)
Fan Type	Brushless ball
Noise Level	<45dB
ESD Safe	Yes (for soldering iron, if applicable)
Product Dimensions	5.91 x 3.94 x 5.12 inches (Main Unit)
Item Weight	2.94 pounds
UPC	600821709375



Image: Diagram illustrating the dimensions of the Sumsour 858D main unit: 150mm (length), 100mm (width), and 138mm (height).

Warranty and Support

Warranty: The host unit of the Sumsour 858D Hot Air Rework Station comes with a one-year warranty from the date of purchase.

For technical support, warranty claims, or inquiries, please contact your retailer or the manufacturer, Sumsour. You can find more information about Sumsour products here.

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