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Sumsour 8586

Sumsour 8586 700W 2-in-1 SMD Rework Soldering Station User Manual

Model: 8586

1. Product Overview

The Sumsour 8586 is a versatile 2-in-1 SMD rework soldering station designed for precision electronics repair. It integrates a hot air gun and a soldering iron into a single compact unit, allowing for independent operation of both tools. The station features a durable metal alloy body with a high-quality silicone casing, ensuring both an elegant appearance and energy-efficient performance.
Key features include:

- Digital LED displays for precise temperature readings of both the hot air gun and soldering iron.
- Independent temperature and airflow control for the hot air gun.
- ESD (Electrostatic Discharge) safe design for the soldering iron, protecting sensitive electronic components.
- Automatic cooling function to extend the lifespan of the heating element and protect the hot air gun.
- Sensor switch in the hot air gun handle for automatic operation mode when picked up and standby mode when placed down.
- PID technology for enhanced temperature stability.
- Suitable for various applications including heating shrinkage, drying, lacquer removal, viscosity removal, defrosting, preheating, and glue soldering.



Image 1.1: The Sumsour 8586 2-in-1 SMD Rework Soldering Station, showing the main unit, hot air gun, and soldering iron with its stand.

2. Safety Instructions

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always wear appropriate personal protective equipment, including safety glasses, when operating the soldering station.
- Operate the unit in a well-ventilated area to avoid inhaling solder fumes. Consider using a fume extractor.
- Do not touch the hot air gun nozzle or soldering iron tip directly. They reach very high temperatures and can cause severe burns.
- Ensure the unit is placed on a stable, heat-resistant surface.
- Unplug the soldering station from the power outlet when not in use or before performing any maintenance.
- Keep the unit and its components out of reach of children and unauthorized personnel.
- Use the provided holders for the hot air gun and soldering iron to prevent accidental contact with hot elements.
- Avoid using the unit near flammable materials or liquids.

- The soldering iron features an ESD-safe design. Always follow proper ESD procedures when working with sensitive electronic components.
- Do not modify the unit or use non-original replacement parts. This may void the warranty and create safety hazards.

3. Setup Guide

Follow these steps to set up your Sumsour 8586 soldering station:

1. **Unpack Components:** Carefully remove all items from the packaging. Verify that all components listed in the package contents are present.



Image 3.1: Layout of the Sumsour 8586 components, including the main unit, hot air gun, soldering iron, nozzles, and stands.

2. **Attach Holders:**
    - Attach the hot air gun holder to the side of the main unit using the provided screws.
    - Assemble the soldering iron stand and place it next to the main unit. Ensure the metal stand is stable.
3. **Connect Tools:**
    - Connect the hot air gun cable to the "REWORK" port on the front panel.
    - Connect the soldering iron cable to the "SOLDER" port on the front panel.



Image 3.2: Detailed view of the Sumsour 8586 control panel and connections, showing the hot air gun handle, nozzles, temperature displays, and connection ports.

4. **Prepare Soldering Iron Stand:** Place the cleaning sponge in the designated tray on the soldering iron stand. Moisten the sponge with water before use to aid in tip cleaning.
5. **Power Connection:** Connect the power cord to the back of the main unit and then plug it into a standard 110V AC power outlet.

4. Operating Instructions

4.1 General Operation

- Turn on the main power switch located on the back of the unit.
- The LED display will illuminate, showing the current temperature settings.
- Use the "REWORK" switch for the hot air gun and the "SOLDER" switch for the soldering iron to activate each tool independently.



Image 4.1: Close-up of the LED display and control buttons for Rework and Solder functions.

4.2 Hot Air Gun Operation

1. **Activate Hot Air Gun:** Flip the "REWORK" switch to the ON position. The "REWORK" indicator light will turn on, and the LED display will show the hot air gun's temperature.
2. **Set Temperature:** Use the "UP" and "DOWN" buttons to adjust the desired temperature for the hot air gun (range: 100°C to 480°C). Press "SET" to confirm.
3. **Adjust Airflow:** Rotate the "AIR" knob to control the airflow intensity. Start with a lower setting and increase as needed for your application.
4. **Automatic Standby:** The hot air gun handle is equipped with a sensor. When you pick up the handle, the unit will automatically enter operating mode. When you place the handle back into its holder, it will enter standby mode and initiate an automatic cooling process to protect the heating element.
5. **Application:** Direct the hot air gun nozzle towards the component to be reworked. Maintain a safe distance to avoid damaging surrounding components.

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Video 4.2.1: Demonstration of the 2-in-1 desoldering station, showing hot air gun operation for component removal and heat shrinking. This video illustrates the automatic sleep function when the air gun handle is placed down, high power desoldering, and heat shrinking capabilities.

4.3 Soldering Iron Operation

1. **Activate Soldering Iron:** Flip the "SOLDER" switch to the ON position. The "SOLDER" indicator light will turn on, and the LED display will show the soldering iron's temperature.
2. **Set Temperature:** Use the "UP" and "DOWN" buttons to adjust the desired temperature for the soldering iron (range: 200°C to 480°C). Press "SET" to confirm.
3. **Tinning the Tip:** Before first use and periodically during operation, tin the soldering iron tip. Apply a small amount of solder to the heated tip to coat it evenly. This helps with heat transfer and prevents oxidation.
4. **Cleaning the Tip:** Regularly clean the soldering iron tip by wiping it on the moistened sponge or brass wool to remove excess solder and oxidation.
5. **Soldering:** Apply the heated and tinned soldering iron tip to the component lead and pad simultaneously. Feed solder onto the joint, allowing it to flow evenly. Remove the solder wire, then the iron.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your soldering station.

- **Soldering Iron Tip Care:**
  - Always keep the tip tinned when hot to prevent oxidation.
  - Clean the tip frequently with a damp sponge or brass wool.
  - Replace worn or damaged tips promptly to maintain soldering quality.
- **Hot Air Gun Nozzles:** Ensure nozzles are clean and free of debris. Replace if damaged or clogged.
- **Cleaning the Unit:** Wipe the main unit and tools with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the soldering station in a dry, dust-free environment when not in use. Ensure the hot air gun is in its holder and the soldering iron is in its stand.
- **Power Cord:** Regularly inspect the power cord for any signs of damage. If damaged, discontinue use and replace it with an authorized cord.

6. Troubleshooting

If you encounter issues with your Sumsour 8586 soldering station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	Power cord not connected, main switch off, power outlet issue.	Check power cord connection, ensure main switch is ON, test power outlet with another device.
Hot air gun or soldering iron not heating.	Tool switch off, temperature set too low, faulty connection, damaged heating element.	Ensure the specific tool switch (REWORK/SOLDER) is ON, increase temperature setting, check cable connections, contact support if heating element is suspected faulty.

Problem	Possible Cause	Solution
Poor solder joints (cold joints, bridging).	Insufficient temperature, dirty/oxidized tip, incorrect solder application, old solder.	Increase soldering iron temperature, clean and re-tin the tip, ensure proper technique (heat both pad and lead), use fresh solder.
Hot air gun not blowing air.	Airflow knob set to minimum, fan malfunction.	Adjust the "AIR" knob to increase airflow. If no air is blown, contact support.
Hot air gun not entering standby mode.	Handle not properly seated in its holder, sensor malfunction.	Ensure the hot air gun handle is fully and correctly placed in its holder. If the issue persists, contact support.

7. Specifications

Feature	Specification
Model Number	8586
Voltage	110 V
Hot Air Gun Power	700 W
Soldering Iron Power	50 W
Hot Air Gun Temperature Range	100°C - 480°C
Soldering Iron Temperature Range	200°C - 480°C
Temperature Stability	±1°C
Airflow Type	Brushless Ball Fan
Max Airflow	120 L/min
Noise Level	<45 dB
Soldering Iron Design	ESD Safe
Heater Material	Nichrome
Display Type	LED
Dimensions (L x W x H)	10 x 13.2 x 15 cm (4 x 5.2 x 6 inches)

8. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or contact the retailer. Sumsour is committed to providing high-quality products and customer satisfaction.
If you require technical assistance, have questions about operation, or need to report a defect, please contact Sumsour customer support through the vendor's contact information provided at the point of purchase.

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