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ZHDBD 8898

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Brand: ZHDBD | Model: 8898

1. INTRODUCTION

Thank you for choosing the ZHDBD 8898 2-in-1 Soldering Rework Station. This device integrates a hot air gun and a soldering iron into a single unit, providing versatile functionality for electronic repair, SMD component rework, and general soldering tasks. This manual provides essential information for safe operation, setup, and maintenance of your new equipment. Please read it thoroughly before use.

2. PRODUCT FEATURES

- Integrated hot air gun and soldering iron for 2-in-1 rework station functionality.
- Dual LCD digital displays for precise temperature monitoring of both tools.
- Compact design with extremely low noise operation, optimizing workspace.
- Intelligent self-detection function ensures safe personal operation.
- Automatic cooling function extends heater lifespan and protects the hot air gun.
- Handle with sensor switch for quick access to operation mode and automatic standby.

3. PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all items are present:

- ZHDBD 8898 Main Control Unit
- Hot Air Gun Handle
- Soldering Iron Handle
- Hot Air Gun Holder
- Soldering Iron Stand with Sponge

- Assorted Hot Air Nozzles (typically 3-4 sizes)
- Power Cord
- User Manual (this document)

4. SPECIFICATIONS

Feature	Specification
Total Power Output	750W
Input Voltage	(Typically 110V/220V, 50Hz/60Hz - not specified, assuming standard)
Hot Air Gun	
Power Output	500W
Temperature Range	100°C - 480°C
Temperature Stability	±2°C
Air Flow	120 L/min (Max)
Soldering Iron	
Power Output	60W
Temperature Range	180°C - 500°C
Temperature Stability	±1°C
Heater Material	Ceramic
Design	ESD Safe
Display Type	LCD

5. SAFETY INSTRUCTIONS

To prevent injury or damage to the equipment, always observe the following safety precautions:

- **High Temperatures:** The hot air gun and soldering iron tips reach very high temperatures. Avoid direct contact with skin or flammable materials.
- **Ventilation:** Use the station in a well-ventilated area to avoid inhaling solder fumes, which can be harmful.
- **Eye Protection:** Always wear safety glasses to protect your eyes from solder splatter or flying debris.
- **Electrical Safety:** Ensure the power cord is properly grounded. Do not operate with wet hands or in damp environments. Disconnect power before cleaning or maintenance.
- **Proper Placement:** Place the unit on a stable, heat-resistant surface. Ensure the hot air gun is always placed in its holder when not in use, allowing it to cool down safely.
- **Children and Pets:** Keep the device out of reach of children and pets.
- **Flammable Materials:** Keep flammable liquids, gases, and materials away from the work area.
- **ESD Protection:** The soldering iron features an ESD-safe design. For sensitive components, ensure proper grounding practices are followed.

6. SETUP

Follow these steps to set up your ZHDBD 8898 Soldering Rework Station:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Placement:** Place the main control unit on a stable, heat-resistant, and level workbench. Ensure adequate space around the unit for ventilation.
3. **Connect Hot Air Gun:** Connect the hot air gun handle cable to the corresponding port on the main unit. Secure the connector by tightening the retaining ring.
4. **Connect Soldering Iron:** Connect the soldering iron handle cable to its designated port on the main unit. Secure the connector.
5. **Install Holders:** Attach the hot air gun holder to the side of the main unit. Place the soldering iron stand on your workbench and insert the soldering iron into it. Ensure the cleaning sponge is moistened.
6. **Power Connection:** Connect the power cord to the main unit and then plug it into a grounded electrical outlet.



Figure 6.1: Front view of the ZHDBD 8898 Soldering Rework Station, showing the main unit with connected hot air gun and soldering iron.



Figure 6.2: Side view illustrating the connection points for the hot air gun and soldering iron cables to the main unit.

7. OPERATING INSTRUCTIONS

This section details the operation of both the hot air gun and the soldering iron.

7.1 General Operation

1. **Power On:** Flip the main power switch on the front panel to the "ON" position. The digital displays will illuminate.
2. **Tool Selection:** The unit allows independent operation of the hot air gun and soldering iron. Use the respective power switches for each tool if available, or simply pick up the tool to activate it (due to sensor switch).
3. **Temperature Adjustment:** Use the **UP** and **DOWN** buttons below each display to set the desired temperature for the hot air gun and soldering iron. The **SET** button may be used to cycle through settings or confirm.



Figure 7.1: Close-up of the control panel showing dual digital displays and temperature adjustment buttons for both soldering and rework functions.

7.2 Hot Air Gun Operation

1. **Select Nozzle:** Choose an appropriate nozzle size for your application and attach it securely to the hot air gun.
2. **Set Temperature:** Adjust the hot air gun temperature using the controls. Recommended range for most SMD rework is 300°C - 400°C, but consult component datasheets.
3. **Set Airflow:** Adjust the airflow using the dedicated knob or buttons (if present) to a suitable level. Start with lower airflow for delicate components.
4. **Activation:** Pick up the hot air gun from its holder. The unit will automatically start heating to the set temperature.
5. **Operation:** Direct the hot air stream evenly over the component to be reworked. Maintain a safe distance to avoid overheating or damaging surrounding components.
6. **Standby/Cool-down:** When finished, place the hot air gun back into its holder. The unit will automatically enter cool-down mode, blowing cool air until a safe temperature is reached, then entering standby. Do not unplug the unit during cool-down.

7.3 Soldering Iron Operation

1. **Clean Components:** Ensure the electronic components and PCB pads to be soldered are clean and free of

oxidation.

2. **Set Temperature:** Adjust the soldering iron temperature. A common starting point is 300°C - 400°C, depending on the solder type and component sensitivity.
3. **Tinning the Tip:** Once the iron reaches the set temperature, apply a small amount of solder to the tip. This "tins" the tip, preventing oxidation and improving heat transfer. Wipe excess solder on the moistened sponge.
4. **Soldering:**
 - Place the hot soldering iron tip onto the joint where the component lead meets the PCB pad.
 - Apply solder to the joint, not directly to the iron tip. The heat from the iron should melt the solder, allowing it to flow smoothly around the joint.
 - Remove the solder wire, then remove the soldering iron. Allow the joint to cool naturally without disturbance.
5. **Cleaning:** Regularly clean the soldering iron tip on the moistened sponge during use to remove oxidation and old solder.

8. MAINTENANCE

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

- **Soldering Iron Tip Care:**
 - Always tin the tip before and after use.
 - Clean the tip regularly with a damp sponge or brass wool.
 - Avoid excessive pressure when cleaning, as this can damage the tip plating.
 - Replace tips when they become pitted or heavily oxidized and cannot be tinned.
- **Hot Air Gun Nozzles:** Ensure nozzles are clean and free of debris. Replace if damaged or clogged.
- **General Cleaning:**
 - Disconnect power before cleaning.
 - Wipe the main unit and handles with a soft, damp cloth. Do not use abrasive cleaners or solvents.
 - Ensure no liquids enter the unit's vents or ports.
- **Storage:** Store the unit in a dry, dust-free environment when not in use.

9. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Unit does not power on.	No power supply; power switch off; faulty power cord.	Check power cord connection; ensure power switch is ON; test outlet.
Hot air gun not heating or no airflow.	Handle not seated correctly; heater element failure; fan failure.	Ensure hot air gun is properly placed in its holder and then removed to activate; check connections. If problem persists, contact support.
Soldering iron not heating.	Iron not connected; heater element failure; tip not making good contact.	Check soldering iron cable connection; ensure tip is securely fastened. If problem persists, contact support.
Soldering iron tip not tinning or poor heat transfer.	Oxidized tip; insufficient temperature; incorrect tip.	Clean and re-tin the tip; increase temperature; replace with a new tip if severely damaged.
Error code on display.	Internal fault; sensor issue.	Refer to specific error codes in a more detailed manual (if available) or contact customer support with the error code.

10. WARRANTY AND SUPPORT

The ZHDBD 8898 Soldering Rework Station is designed for reliability and performance. For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. If you encounter any issues or require technical assistance, please contact ZHDBD customer support through your purchase platform or the official brand website for prompt service.