

————— **Anti-Static** —————
Hot Air Desoldering Station

INSTRUCTION MANUAL

8509

English



Statement: The company reserves the right to improve and upgrade products, product specifications and design are subject to change without notice.

Thank you for choosing this type of de-soldering Equipment with Hot Air. The product is designed for lead-free de-soldering. Please read the instruction manual thoroughly before use and keep it for future reference.

Safety Guidelines

To use this product, the following basic measures should be strictly followed to avoid hazards of electric shock, bodily injury, and fire.

1. **To ensure personal safety, please turn off the power switch after power work is completed; if it will not be used for a long time, please unplug the power cord!!!**
2. Serious consequences may result if non-original or non-approved parts are used.
3. In the event of product failure, repairs must be carried out by professionals or manufacturer-designated personnel.
4. This product uses three-wire grounded plug must be inserted into three-hole grounded outlet, do not change the plug or use an ungrounded three-headed adapter leaving poor grounding.
5. After the de-soldering station is switched on, its temperature can exceed 400°C. Do not use near flammable or explosive objects. To avoid burns, do not touch the metal part of the soldering iron.
6. Do not leave the work area when the soldering station is switched on.
7. The power cord must be unplugged and the iron must be allowed to cool before installing or replacing soldering iron parts.
8. After used, remember that cooling the unit before installation.
9. Soldering produces fumes, ensure there is adequate ventilation.

Warning!!!

1. If the power cord is damaged, it must be replaced by a specialist in the manufacturer or service department to avoid danger.
2. This tool must be placed on its stand when not in use.
3. Be careful when using the appliance in places where there are combustible materials; Do not use this appliance in the same place for a long time.
4. Be aware that heat may be conducted to combustible materials that are out of sight; Do not leave the appliance unattended when it is switched on.
5. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge. Unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

I. Products Feature

1. Adopt PID Program-controlled temperature control technology, rapid temperature rise, stable temperature and small error.
2. The air volume is adjustable and can be adjusted to a small soft air volume, especially suitable for the small components of the de-soldering patch to prevent unnecessary troubles by blowing small components.
3. The handle is light and easy to operate.
4. LCD liquid crystal display, the display can adjust the direction up and down, it looks very delicately made.
5. The machine design has the following user-friendly functions:
 - A. Temperature Celsius/Fahrenheit display function:**
This temperature display mode designed to meet the needs of different markets, you can choose according to your customary or interest.
 - B. Air gun automatic/manual function:**
 - a. When you choose the Auto function,** and the air gun handle back on the bracket, the machine will shut off the heater automatically and cool down, it can prolong the service life of the heating element effectively and it is energy saving and environment friendly. It has very high safe factors when turn on the machine again, when you turn on the machine at an unknown condition. It can prevent the fire or other accidents effectively.
 - b. When you choose the manual function,** the air gun will not cool down when you put it back to bracket, this function is suitable for using the air gun frequently, it can save the cooling and warming up time, improve the working efficiency. We recommend you that after using the manual function, please transfer the function into auto function, so it can improve the safety.
 - C. Digital temperature correction function:**
You can use this feature to correct the temperature when the iron temperature is different from the display temperature, which caused by the environmental impact or replacing heating element, iron tips or other components.
 - D. One button for Cold/Hot Air Switch:**
Pressing the regulator enables switching between cold and hot air. At this point, the air gun heating wire stops heating, and the air pump is used for air supply, enabling the user to cool down the heating elements.
 - E. CH1/CH2/CH3 three-stage preset storage function:**
The user can preset the temperature of each storage section according to the requirements. In the soldering work, the user can quickly adjust the preset values of CH1/CH2/CH3 according to different welding environments.
6. The internal use of SMT double technology, the component is neatly, the signal flow is clearly, the reliability and safety is further improved thus can suitable for any kind of bad condition.
7. Anti-static design to prevent static or leakage damage to components.

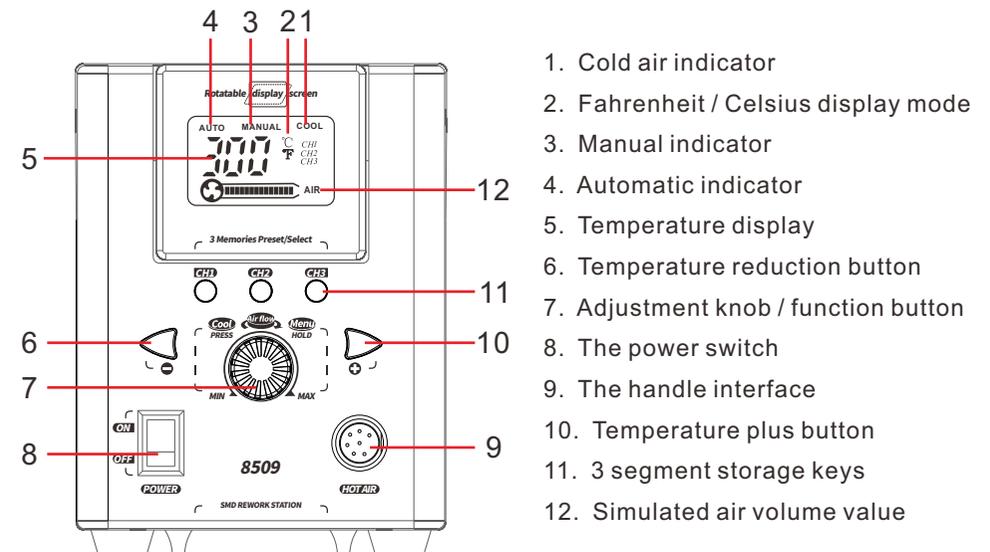
II. Specification Parameters

Input voltage	AC 220V-240V 50Hz
Maximum power	200W
Rated power	92W
Dimension	L222xW120xH152mm ±5mm
Weight	2.88kg
Working environment	0~40°C/32~104°F
Storage environment	-20~80°C/-4~176°F
Storage humidity	35%~45%
Airflow type	Air Supply Mode -- Air Pump
Wind Speed	≤3.5m/s tested with φ2mm nozzle
Temperature range	100°C~480°C
Temperature stability	±2°C (static)
Display form	LCD liquid crystal display
Handle length	≥100cm (including handle length)
Noise	<55dB (tester in one meter distance from noise source)

III. General Usage

1. It is especially suitable for de-soldering and soldering of various small components of mobile phone motherboards, such as SOIC, CHIP, QFP, PLCC, BGA, SMD and other small package components.
2. Used for heat shrinking, drying, paint removal, de bonding, thawing, preheating, glue welding, etc.

IV. The Panel Diagram



1. Cold air indicator
2. Fahrenheit / Celsius display mode
3. Manual indicator
4. Automatic indicator
5. Temperature display
6. Temperature reduction button
7. Adjustment knob / function button
8. The power switch
9. The handle interface
10. Temperature plus button
11. 3 segment storage keys
12. Simulated air volume value

V. Operation Instructions

1. Put the machine at the right place, install the air gun handle and the required nozzles, the air gun handle should be put on the holder.
2. Connect the power supply and turn on the power switch. When the screen display shows "--", you can set the temperature and air flow you want.
3. Pick up the handle to start the air gun, the air gun starting supply air and heating until the temperature is stable, you can start your operation.
4. When finished, put the handle back to holder, then it enter the status to cool down the heating element. Until the temperature is down to 100°C, unplug the main power switch.
5. Please unplug the power cord, when you do not use the machine for a long time.

VI. Function Parameter Setting Instructions

Fahrenheit / Celsius Temperature Display Settings

1. Turn on the air gun switch.
2. Press and hold the air adjustment knob for 2 seconds, the display “ °C ” flashes.
3. Rotate the knob to select the Fahrenheit or Celsius display system.
4. Press the air adjustment knob 3 times to confirm, the program automatically saves the data and exits the setting state, then the setting is completed.

Air Gun Manual / Automatic Setting

1. Turn on the air gun switch.
2. Press and hold the air adjustment knob for 2 seconds, the display will flash, press air adjustment knob for one time, the display “AUTO” will flash.
3. Rotate the air knob to select the air gun manual or automatic mode.
4. Press the air adjustment knob 2 times for confirm, the program automatically saves the data and exits the setting state, then the setting is completed.

Digital Temperature Correction

1. Turn on the air gun switch.
2. Press and hold the air adjustment knob for 2 seconds until the display flashes, and then press the air adjustment knob 2 times to enter the temperature calibration state, the display “CAL” will flash.
3. Rotate the knob to input the measured temperature, press the air adjustment knob 1 time to confirm the corrected temperature.
4. Press the air adjustment knob for 1 times for confirm, the program automatically saves the data and exits the setting state, then the setting is completed.

One-button for cold/hot air switching

Turn on the power switch, pick up the handle, press the air adjustment knob, the heating core stops heating, enters the cold air cooling down heater mode and finally blows the cold air all the time.

CH1/CH2/CH3 Three-Stage Preset Storage Setting

Turn on the power switch, press the channel you want to store, set the temperature and air volume separately, stop the operation for 5 seconds, the parameters is stored in this channel.

VII. Symbol Description

1. “---” Indicates that the outlet temperature is lower than 100°C, the machine enters into standby and handle is rested on the holder.
2. “S-E” Means that the handles are unplug or the sensor components of soldering iron or air gun are damaged. Please replace the heating elements (heater and sensor components)

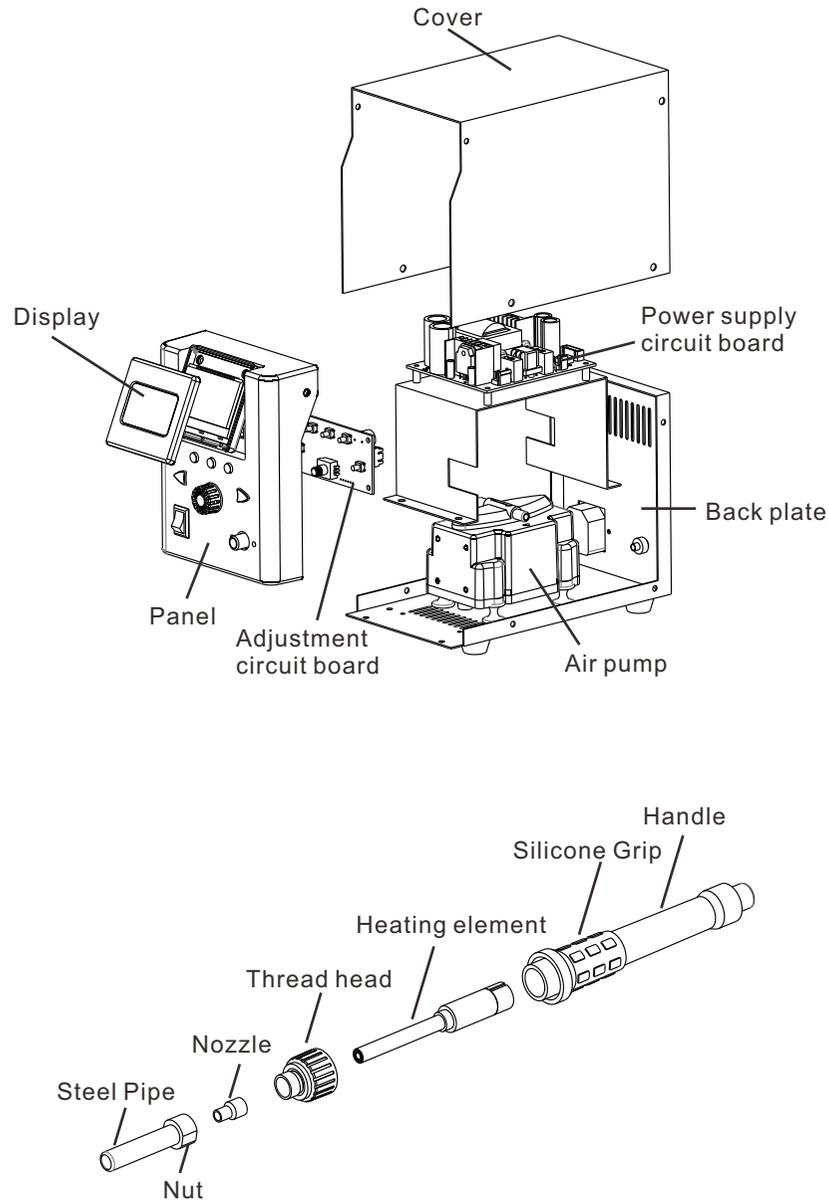
VIII. Terms of Use

1. The handle must be placed on the handle frame before turn on the power switch.
2. Please ensure the air gun outlet is clear, must free from any blockages or obstruction.
3. After the work is completed, put the air gun handle on the frame and after the machine cools down with the appearance of “---”, turn off the power switch.
4. Choose the right air nozzle according to work requirement. Different air nozzles may have slightly different temperatures. The distance between the outlet and the object is at least 2 mm.
5. When the nozzle is installed, the nozzle must be installed when the heating tube and the nozzle are both cooled.
6. Do not touch the heating pipe or directly spray the face with hot air, there is a danger of burning human body. At the beginning of the start, white smoke may appear, which is normal and will disappear later.
7. Please replace the same type of heating element or heating core!

Special instructions:

Dear User! Our air gun and soldering iron handle adopt high strength stainless steel tube, the machine must be inspected or calibrated four times in normal working condition during the production process, the copper tube could be slight yellowing due to high temperature! When use the new machine first time, it is normal that the steel tube at a slight yellowing, please be assured!

IX. Air Gun Handle Disassembly Diagram, Host Disassembly Diagram



Product certification

Model NO.	
Product ID	
Examine	Upon examination products meet technical standards QC PASS
Sales Date	
Date of manufacture	

Warranty Card

Thank you for choosing this type of products, please read the following terms before using:

1. From purchasing date within 7 days, under normal use(Non-artificial damage), new package, not be disassemble and repaired ,enjoy replacement service.
2. From purchasing date within one year, under normal use, if there are quality problem, not be disassemble and repaired ,enjoy free repair service.
3. For more than warranty, we provide a lifetime warranty service, free of labor costs, charge only spare parts costs.
4. Failure to present warranty card during warranty period, the company will not be a free service.
5. Users need warranty service, please contact your original sales unit.
6. When users need warranty service, please provide warranty card and purchase invoice, or receipt of the certificate of the company seal.
7. Warranty does not include transportation costs and provide on-site service.

Maintenance records

NO.	Date for repair	Cause	Fix date	Repairer