

Anti-Static Hot Air Desoldering Station

**OPERATION
GUIDANCE**

**Circuit Specialists CSI8509
English**

Thank you for choosing this product. Please read the operation guidance thoroughly before use and keep it for future reference.

1. 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:

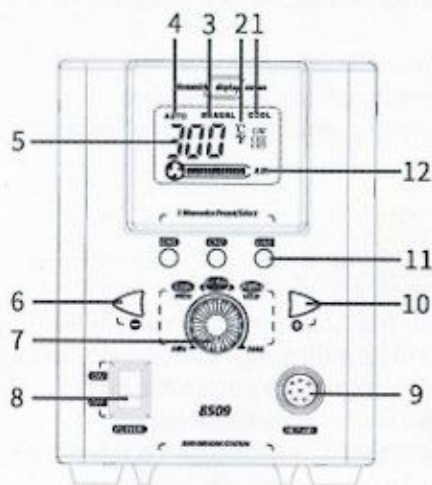
The user can preset the temperature of each storage section according to the requirements. In the soldering work, the user can quickly adjust the preset values of CH1/CH2/CH3 according to different welding environments.

- 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.
- Anti-static design to prevent static or leakage damage to components.

2. General Usage

- 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.
- Used for heat shrinking, drying, paint removal, de bonding, thawing, preheating, glue welding, etc.

3. The Panel Diagram



- Cold air indicator
- Fahrenheit / Celsius display mode
- Manual indicator
- Automatic indicator
- Temperature display
- Temperature reduction button
- Adjustment knob / function button
- The power switch
- The handle interface
- Temperature plus button
- 3 segment storage keys
- Simulated air volume value

4. 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(212°F), unplug the main power switch.
5. Please unplug the power cord, when you do not use the machine for a long time.

5. 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.

6. Symbol Description

1. "---" Indicates that the outlet temperature is lower than 100°C(212°F), 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)

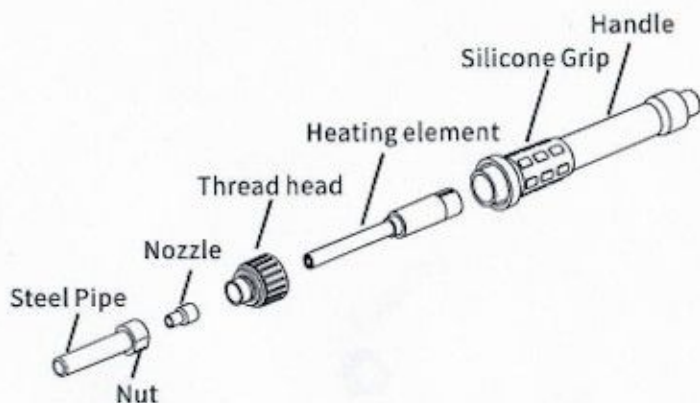
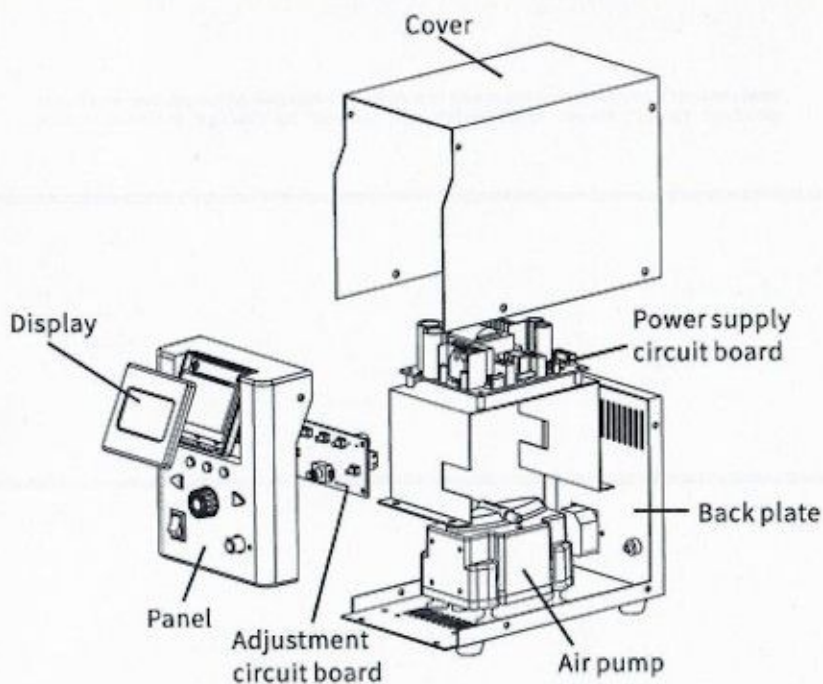
7. Terms of Use

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!

8. Air Gun Handle Disassembly Diagram, Host Disassembly Diagram



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



Made in China

Anti-Static Hot Air Desoldering Station

Circuit Specialists CSI8509
English



Made in China

Please read the instruction manual carefully before use and keep it for future reference.

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

Safety Guidelines

To use this product, the following basic measures must be strictly followed to avoid hazards such as electric shock, bodily injury, fire and other phenomena:

1. To ensure personal safety, please turn off the power switch after work is completed; When not in use for an extended period, please unplug the power cord.
2. If any appliance failures occur, its maintenance can only be carried out by a maintenance technician or our designated personnel. Do not use parts that are non-original or non-approved otherwise, serious consequences could happen.
3. The appliance should be used with three-prong grounded plug only and the plug must be inserted into a three-prong grounded outlet.
4. Be aware that heat may be transferred to distant flammable materials; Do not use it near flammable gas or explosive objects. Do not touch the metal part of the iron: risk of burn.
5. Someone must be present at all times while the device is connected.
6. Do not install or replace any parts before the desoldering station is off but install or replace them after the cooling of the station.
7. After use, the handle must be placed on its holder for cooling.
8. This device is not intended to be used by persons with reduced physical, sensory, or mental capacities or by those who lack experience (such as children) unless they have been given adequate supervision or instruction concerning use of the appliance by a person who is responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

9. Do not use this device for extended periods in the same location.
10. Before shipment please be sure fix screw at the bottom of the machine (M5*20 white), otherwise it will cause serious problem. Before using please remove the screw (M5*20 white) at the bottom of the machine, otherwise it will cause serious problem.

Specification

Model	8509
Voltage	110V-127V AC 60HZ
Maximum power	200W
Rated power	82W
Dimension	L222xW120xH152mm \pm 5mm
Airflow type	Air Pump
Wind Speed	\leq 3.5m/s tested with ϕ 2mm nozzle
Temperature range	100°C~480°C/212 °F~896°F
Display form	LCD liquid crystal display
Handle length	\geq 100cm (including handle length)
Weight	2.88kg
Noise	<55dB (tester in one meter distance from noise source)
Working environment	0~40°C/32~104°F
Storage environment	-20~80°C/-4~176°F
Storage humidity	35%~45%



**ESD
SAFE**



This product should not be thrown in the garbage.
In accordance with the European directive 2012/19/EU, electronic
equipment at the end of their life must be collected and returned to
an authorized recycling facility.

Circuit Specialists

Circuit Specialists (USA)
819 W Fairmont Dr # 2
Tempe, Arizona USA 85282
800-528-1417 / 480-464-2485
www.circuitspecialists.com

Circuit Specialists Europe Ltd
Unit 26, Ashburton Park
Wheel Forge Way, Trafford Park
Manchester, M17 1EH
www.circuitspecialists.eu