

ATTEN[®]
INSTRUMENTS

Rules of Safety

Using this device, you can save a lot of time and space by combining a heat gun and soldering station perfectly. Not only does it operate simply and comfortably, but saves room, largely.

AT8586D

THERMO-CONTROL DIGITAL-DISPLAY & ANTI-STATIC

SOLDER STATION & SMD REWORK

2in1

USER'S MANUAL

SHENZHEN ATTEN ELECTRONICS CO., LTD.

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Thank you for choosing our products, before operation, please read this manual carefully.

AT8586D is a rework tools that combined heat gun and soldering station perfectly. Not only does it operate simply and comfortable, but save room largely.

Rules of Safety

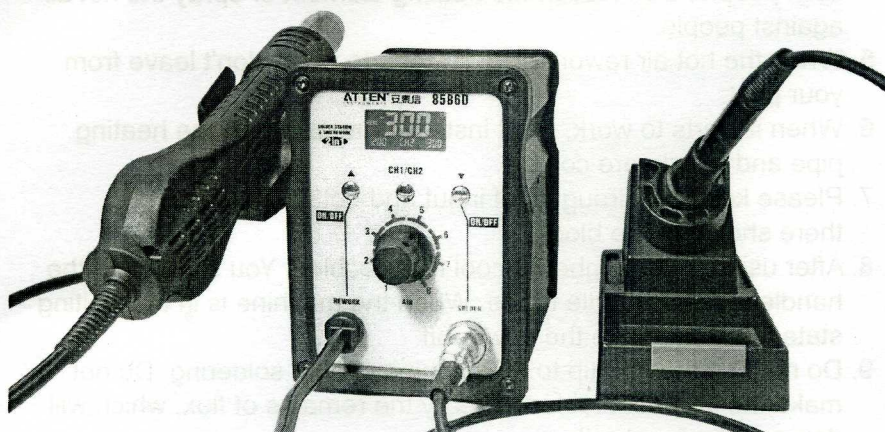
Using this device, you must abide by the following measures in order not to get an electric shock, result in damages to people or result in fire, etc.

1. In order to secure the safety of people, you must use the parts or accessories that the factory of origin certificates or recommends; or it will lead to serious aftermaths.
2. This rework station must be repaired by qualified technicians or the appointed person by us.
3. This device makes use of three-wire grounding plug, should plug it into three-hole grounding outlet. Do not change the outlet or ungrounded adapter which would lead to being bad ground.
4. be careful, for it is operated at a high temperature which is more than 400°C. Don't use it near flammable and explosive gas and objects, for the tip and the air from it are steaming-hot, which can burn people. Don't touch the heating element or spray the hot air against people.
5. When the hot air rework station starts to work, don't leave from your post.
6. When it starts to work, don't install the nozzle until the heating pipe and nozzle are cooled
7. Please keep the draughts of input and output expedites; there should be no block.
8. After using it, remember to cool the machine. You should put the handle into the handle frame. When the machine is in the waiting state, you can make the power off.
9. Do not use the iron tip to do anything except soldering. Do not make the iron beat table to Cleary the remains of flux, which will damage the iron badly.
10. When it was soldering, it will smoke. Please keep the work environment ventilation.

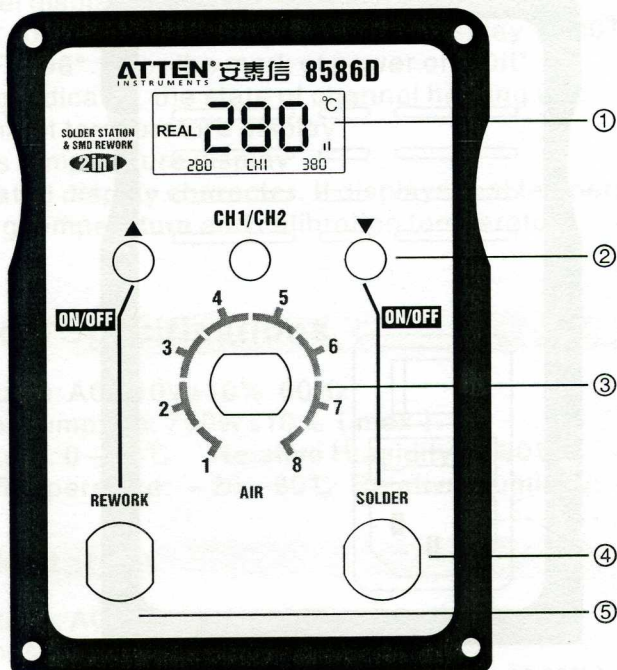
Features and characteristics

- Multifunctional integrated desoldering maintenance system combined by rework station and soldering station.
- The core of the whole machine controlled by the single and microwave chip to make sure of temperature accuracy and stability of rework station and soldering station. Not simply combined by the two equipments.
- Clear LCD display of the current working temperature and conditions.
- With stainless steel heating element and front sensor, accurate temperature control and quick-to-temp power up.
- Temperatures of rework station and soldering station continuously adjusted by digital buttons to meet the needs in different.

Product diagram

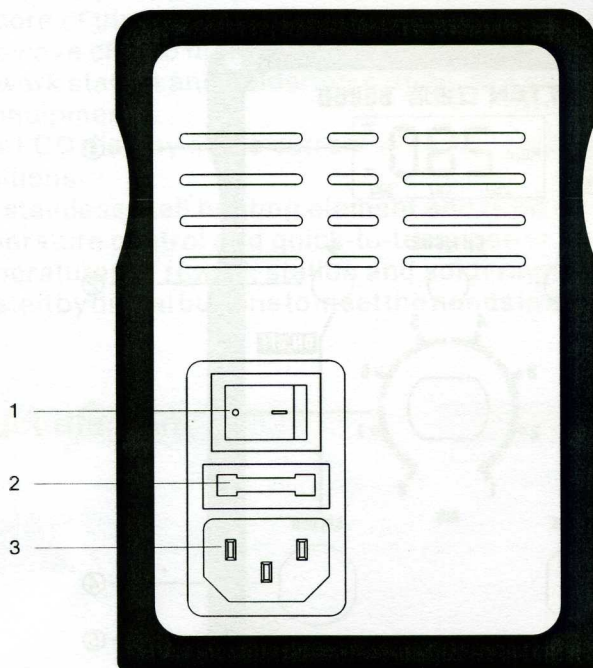


Front panel diagram



- ① LCD temperature display
- ② press buttons
- ③ hot air air volume adjustable button
- ④ soldering station output
- ⑤ rework station output

Back panel diagram

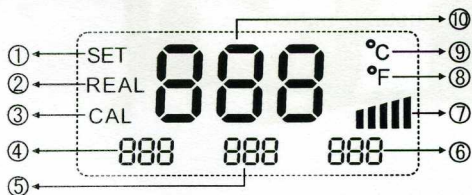


① Power switch

② Fuse

③ Outlet

LCD display description



- 1、SET: Set Temperature
- 2、REAL: Real Temperature
- 3、CAL: Calibration Temperature
- 4、CH1 of rework station, temperature display (100°C–500°C) / (212° F–932° F) or the mark of power off "Off"
- 5、Channel display mark, display "CH1" or "CH2"
- 6、CH2 of soldering station, temperature display (200°C–480°C) / (392° F–896° F) or the mark of power off "Off"
- 7、heating indicator, the state of channel heating up.
- 8、Fahrenheit temperature display
- 9、Celsius temperature display
- 10、Activated display character. It displays real temperature 、 setting temperature and calibration temperature.

Technical Specifications

Input Voltage: AC 110V±10% 60Hz

Power Consumption: 750W±10% (max)

Temperature: 0 – 40°C Relative Humidity: < 80%

Storage Temperature: – 20 – 80°C Relative Humidity: < 80%

Rework Station

Input Voltage: AC 110V±10% 60Hz

Power Consumption: 700W±10%

Temperature Range: 100°C ~ 500°C (212° F—932°F)

Air Volume: 120L/min(Max)

Temperature Stability: ±2°C(static)

Soldering Station

Input Voltage: AC 26V±10% 60Hz

Power Consumption: 50W±10%

Temperature Range: 200°C ~ 480°C (392° F—896°F)

Temperature Stability: ±2°C(static)

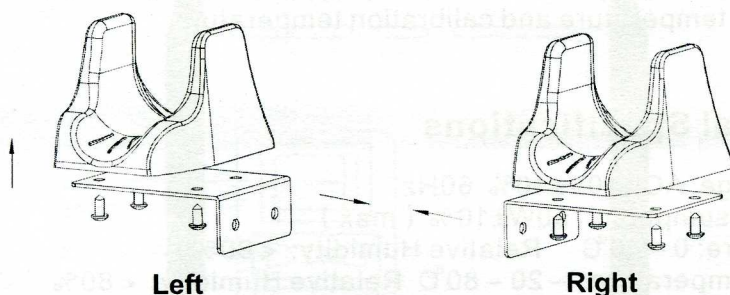
Ground Impedance: < 2Ω

Ground Voltage: < 2mV

Operation instructions

一、Installation

When the new machine is operated for the first time, you must install the handle frame, the picture is as follows: According to your habits, you can screw the four screws tightly. Under your need, remove the two screws of the fixed handle shelf on the right or on the left. Put the two installation holes of the handle in the fixed screw holes, and screw the two removed screws tightly. Put the components of the handle on the frame and check if suitable.

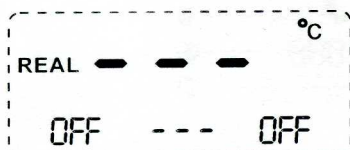


二、Connect

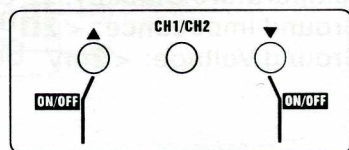
1. Put the rework handle on the frame; connect the soldering to the machine and then put on the iron stand (check device schematic diagram)
2. Plug the power cord into power outlet.

三、Power

Open the master power switch at the back panel of the device after connected the power. (Please make sure the power meets device requirement before open the power) LCD display show in waiting state, like the first figure.



(Figure 1)



Button Schematic Diagram

四、Operate

1、rework station operation

Press "△", enter into "CH1" and rework station is on. When the handle is on the frame, it's on the state of sleeping (SLP) display. (Figure 2 and CH2 is off now). Pick up the handle and adjust the air volume, it's working (Figure 3).



(Figure 2)



(Figure 3)

2. Soldering station operation

Press " ", enter into CH2 and it works. After it displays "SET" for 3 seconds, like Figure 4 and soldering station works now. Then it displays real temperature. Please look at Figure 5, constant temperature.



(Figure 4)



(Figure 5)

五、Temperature setting (taking rework station as an example)

- 1、Press the key of "CH1/CH2" and switch to "CH1". If it displays CH1 before setting, no need to switch again.
- 2、Press "△" or " " keys for a long time (more than 3 seconds). The mark "SET" is light and "CH1" flashes, enter into the first channel to set temperature.
- 3、Short press "△" or " " keys to adjust the temperature, and you can see the temperature you adjusted from the display (Figure 6).
- 4、Stop pressing for 3 seconds and the temperature setting finishes. The mark of "real" is light and it displays real temperature now (Figure 7).



(Figure 6)



(Figure 7)

六、Temperature calibration(taking rework station as an exam

After the replacement of heating element or soldering tip, you can calibrate the temperature as following.

- 1、Press "CH1/CH2" key, and switch to "CH1". If it displays "CH1" before calibration, no need to switch.
- 2、Press "CH1/CH2" key and at the same time press " Δ " key over 3 seconds, and enter the state of temperature calibration. The mark "CAL" is light, and "CH1" flashes (Figure 8).
- 3、Short press " Δ " or " " keys and adjust temperature, the calibration range is $-50^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ($-58^{\circ}\text{F} \sim 122^{\circ}\text{F}$) (Figure 9).
- 4、After temperature calibration, press "CH1/CH2" key and it save the temperature automatically. The machine is back to normal working condition.

Calibration method: Take a temperature tester, until the device is in the state of constant temperature, test the temperature of the channel and record. (Please plate a little tin on the tip when testing). Such as the tested temperature is T_1 (320°C), the display temperature is T_2 (350°C), the original calibration is T_3 (0°C). The calibrated temperature should be T_1 (320°C) - T_2 (350°C) + T_3 (0°C) = -30 , then press " " key and input -30°C .



(Figure 8)



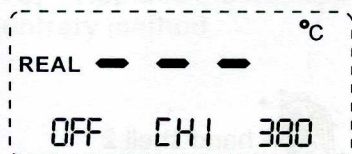
(Figure 9)

七、The sleeping state of rework station

When the rework station works, if you put the handle on the handle frame, the device will cut down hot air. When the temperature is less than 100°C , the rework station becomes in sleeping state (Figure 2). It will show "SLP", the sleeping state. Pick up the handle, it works again.

八、The waiting state

- 1、If you do not use rework station temporarily, press "△"key and the device stops heating. When the temperature is less than 100℃, it stops working(Figure 10).
- 2、If you do not use soldering station temporarily, press " "key and it's closed and enter into the waiting state directly.



(Figure 10)



(Figure 11)

九、“℃” and “°F” change

In the state of power switch off, press “CH1/CH2”, and open the power switch at the same time, “℃” and “°F” can change(Figure 11).

十、Fault indication function

- 1、If the heating element is malfunctioned, it displays "H-E" (Figure 12).
- 2、If the sensor is damaged, it displays (S-E) (Figure 13).



(Figure 12)



(Figure 13)

Replacement of heating element

Replace the heating element after they are cool and complete power-cutoff.

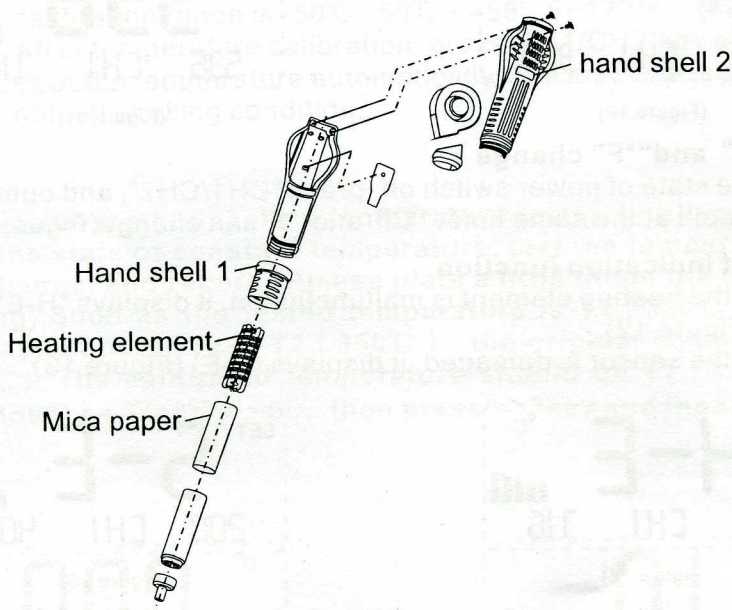
- 1、replacement of rework station heating element
 - Step 1. Release two fixed screws of the hand.
 - Step 2. Remove hand shell 1, and then hand shell 2.
 - Step 3. Remove the fan gently, then take out fixed screw on the connected wire board.
 - Step 4. Converse the board and disconnect the connecting wire of the heating element, pay attention to the position for the connecting wire.
 - Step 5. Take out the damaged heating element from the steel tube, and replace it. According to the contrary method, install the handle correctly.

Attention:

When replace the heating element, be careful and don't break grounding wire.

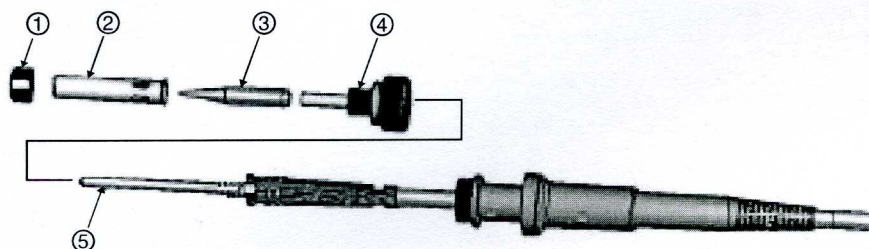
Don't break the connecting wire of fan.

When stall the handle back, the column of handle should be in fixed hole of steel pipe.



The replacement of soldering station heating element

- 1) Cut the power and wait until the heating element is cool.
- 2) Like the figure showed, unscrew the nut①, exit stainless steel② and tip③, and then screw the fixed stand④ and take down the heating element⑤.
- 3) Replace the heating element and install it well according to the contrary method.



Accessories list

Main device and handle of the rework station	One desk
Handle frame	One set
Soldering iron	One piece
Iron holder	One set
Power line	One article
Using manual	One piece

ATTEN INSTRUMENTS

- RF Microwave Instruments • RF Microwave Components
- Spectrum Analyzers • Regulated DC Power Supply
- Regulated AC Power Supply • Switching DC Power Supply
- Digital Storage Oscilloscope • Signal Generator • Attenuator • Amplifier
- 850 Rework Station • 936 Constant Temp Soldering Station
- Electronic Instruments • Electronic Tools

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