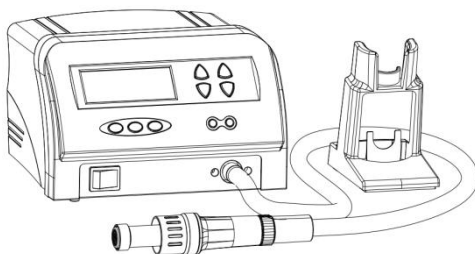




# QUICK 856AE SMD REWORK STATION

## Instruction Manual



**Thank you for purchasing our products. Please keep the instruction manual properly for future reference.**



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# 1.Safety Instructions



## CAUTION

- During the installation and use of this product, all electrical safety regulations of the country and regions must be strictly observed.
- The power supply must be disconnected when disassembling the product. Do not operate with power on.
- If the product does not work properly, please contact the supplier or our company, and do not disassemble or change the product in any way. We are not responsible for any problems caused by unauthorized maintenance or modification.



## WARNING

- Don't install the product in a place where the surface is easy to shake or be impacted, as it may damage the product.
- Don't place the product in places where it may be exposed to rain or moisture.
- The product should be used away from places where there is magnetic interference.
- Don't use in flammable and explosive environments.
- Pay attention to the air outlet and its surroundings. High temperature operation, be careful of burns.
- Power supply should be turned off during breaks or after work to avoid safety accidents.
- Please keep the air outlet unblocked and ensure there is no obstruction.
- Check and maintain the product regularly. Do not use the product when it is damaged, especially when the power cord or desoldering cord is damaged.
- The handle must be correctly placed on the holder, and do not replace it on the work surface. After completion, turn off the power switch when the machine automatically cools down to below 100°C (Enter Sleeping state).
- Please unplug the power cord when the product is not used for a long time.

## **2.Overview**

This product is suitable for desoldering of various components, such as SMD, SOP, SOG, etc. It can be used in many occasions, such as heat shrinkage, drying, paint removal, adhesive removal, thawing, preheating, disinfection, etc. Adjustable air volume, suitable for small air volume and large air volume heating occasions.

## **3.Product Characteristics**

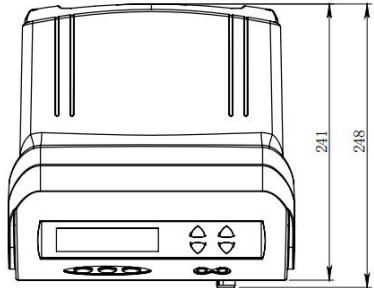
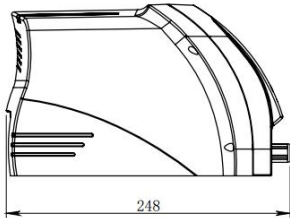
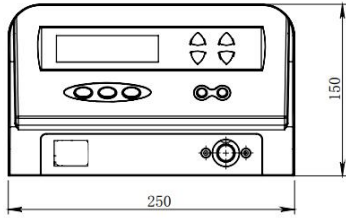
- CH1, CH2, CH3 three working channels selectable; time, air volume and temperature of each channel can be preset.
- Password protection and key locking to prevent the production process parameters from being modified.
- Support magnetic switch control and pedal control.
- Auto sleeping function, parameters can be set in sleeping mode.
- Closed loop sensor, temperature can be controlled by zero voltage triggering mode and adjusted conveniently, accurate and stable, large power, rapid heating.
- Brushless vortex fan, adjustable and wide range of air flow.
- Automatic cooling system can prolong the lifetime of heater and protect the handle.

## 4.Product Specifications

Product model	856AE
Power consumption	1300W
Working voltage	AC 110V/220V
Temperature range	100°C~500°C
Working time	1-999s ("---" refers to in working mode no time limiting)
Temperature stability	±2°C (No load)
Air volume range	6~200 Class
Airflow	90L/min (Max)
Dimensions(L×W×H)	250*248*150 mm
Weight	About 4.4Kg

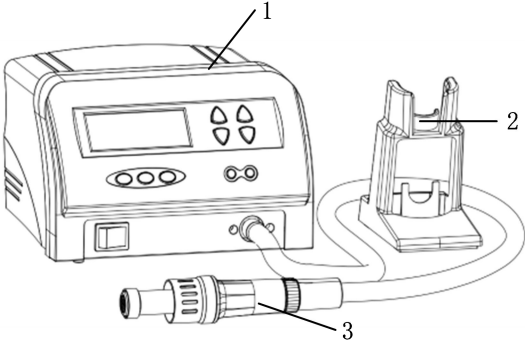
# 5.Functional Descriptions

## 5. 1. Dimensions



Unit: mm

## 5. 2. Part Descriptions

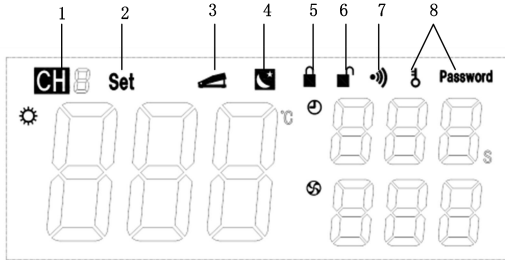


NO.	Part Descriptions
1	Main unit
2	Holder
3	Handle

### 5. 3. Key Descriptions

<b>Button</b>	<b>Function Description</b>
POWER	Power switch
CH1-CH3	Working channels
CH1+CH2	In the menu setting interface, press at the same time to enter password setting interface
TEMP ▲/▼	Adjust the hot air temperature
AIR ▲/▼	Adjust air volume
INFO	Press keys "INFO" and "TEMP ▲" or "TEMP ▼" to enter time setting interface
SAVE	Press to enter CH0 channel; Long press keys "SAVE" and "CH1", "CH2" or "CH3" at the same time to save the parameters of channel CH0 into CH1/CH2/CH3 correspondingly
INFO+SAVE	Turn off the power switch, press "INFO" and "SAVE" at the same time, and then turn on the power switch to enter the password protection interface
INFO+CH1	In the menu setting interface, press at the same time to turn on/off the key tone function
INFO+CH2	In the menu setting interface, press at the same time to turn on/off the pedal control function
INFO+CH3	In the menu setting interface, press at the same time to switch the locking and unlocking mode
TEMP ▲/▼ INFO+SAVE	Press the 4 keys at the same time to enter temperature calibration interface

## 5. 4. Function Descriptions of the Main Interface



No.	Symbols	Function
1		Channel, display the current working channel.
2	Set	Indicates in the menu setting state, at this time the handle does not work.
3		Pedal switch, when displayed indicates in the working mode the working/sleeping state can be controlled by the pedal switch; otherwise independently controlled by the magnetic control switch.
4		Indicates in sleeping mode.
5		Locking, parameter setting locked, can only work with CH1 channel and parameters.
6		Unlocking, you can switch the channel to work and set working parameters.
7		When displayed, the key will make a key tone, otherwise no key tone.
8	Password	When <b>Password</b> displayed, indicates enter the password input state. When <b>Password</b> displayed, indicates enter the password modification state.

## 6. Temperature, Air Volume and Time Settings

Note:

1) When the password is locked, the channel "CH1/CH2/CH3" cannot be switched, and the operating parameters of the channel cannot be modified.

2) Input the correct password, or the initial password "000".

There are four channels. CH0、CH1、CH2、CH3. CH0 is temporary channel, when the password is not locked, the channel can be switched in both working or sleeping mode, and can set CH0, CH1, CH2 and CH3 channels to different parameter values.

When adjusting the temperature, time and air volume, the current channel will enter the CH0 channel, and the adjustment data will be directly stored in the CH0 channel. Long press and hold the "SAVE" key, and then press "CH1" or "CH2" or "CH3" key for about 1 second to save the parameters stored in the CH0 channel to the channel CH1 or CH2 or CH3 to be modified.

### 6. 1. Temperature Settings

Press the "TEMP▲" or "TEMP▼" key the temperature will rise or fall by 1°C.

Long press the "TEMP▲" or "TEMP▼" key, the temperature will rise or fall rapidly.

### 6. 2. Air Volume Settings

Press the "AIR▲" or "AIR▼" key to increase or decrease the air volume by 1.


Long press the "AIR▲" or "AIR▼" key, and the air volume will increase or decrease rapidly.

## 6. 3. Time Settings

Press the "INFO" key and "TEMP ▲" key or the "INFO" key and "TEMP ▼" key at the same time, the working time will increase or decrease by 1 second.

Long press the "INFO" key and "TEMP ▲" key or the "INFO" key and "TEMP ▼" key, the working time rises or falls rapidly.


## 7. Magnetic Switch Control

1)When LCD does not display "", indicating that the handle is controlled by the magnetic control switch. When the handle is removed from the holder, it enters the working state. At this time, the pedal switch does not work, that is when the pedal switch is stepped (triggered), it will not enter the working state or sleeping state.

2)Enter the working state: after reaching the set working time, it will automatically enter the sleep state. At this time, you can press any key (except the power key and INFO key) to wake up the sleeping and enter the working state.

3) If the handle is placed on the holder, the machine will immediately cool down with a large amount of air and enter the sleeping state.

## 8. Pedal Switch Control

1)When LCD displays "", at this time when the handle is removed from the holder, the state of the handle (working or sleeping) can be controlled by the pedal switch.

2)In the working state, trigger the pedal switch once, the machine will stop working and enter the sleeping state.

3)If the pedal switch is not released after being triggered in the sleeping state, the LCD working time parameter interface displays "-- --", indicating that the desoldering station is in the working state until the pedal switch is released and enters the sleeping state.

4) If the pedal switch is triggered once in the sleeping state and then released, the machine will start to work under the channel and working parameters displayed on the LCD until to the set working time.

5) If the screen displays "🔊", it indicates that a prompt tone has been set during operation. In the last 5 seconds of operation, the system will give a "beep" prompt tone.

### **Note:**

**1) When LCD displays working time "---", indicates that it is not limited by working hours, and the handle is always in working state.**

**2) Use lower temperature and large air volume as much as possible to complete the operation, which is helpful to prolong the service life of the heater and the safety of the disassembled and soldered IC chip.**

**3) When it is controlled by the pedal switch, it needs to enter the menu interface to set up separately.**

## **9.Sleeping and Wake Up**

### **9. 1. Enter Sleeping**

1) After working to the set working time, it will automatically enter the sleeping state.

2) Put the handle on the holder, and the system immediately goes to sleeping.

3) When the system is controlled by the pedal switch, when the system is under working state, trigger the pedal switch, the system immediately enters the sleeping state.

4) When the station enters the sleeping state, "OFF" is displayed at the sleeping time interface until the handle automatically cools down to 100 °C, and then the station enters the sleeping state. At this time, the screen displays "🔊" and "---" remains until the station resumes working.

## 9. 2. Wake Up

- 1) When there is no pedal switch, remove the handle from the holder to wake up.
- 2) When there is pedal switch, remove the handle from the holder and trigger the pedal switch to wake up.


## 10.Menu Settings


Note: 1) The menu settings are password protected, and you need to enter the correct password to enter the "Menu Settings". The initial password is "000".

2) In the menu setting state, you can set the locking or unlocking function, magnetic switch or pedal switch control function, key tone and other functions.


### 10. 1. Password Settings

#### Enter password setting mode

1) Turn off the power switch, long press "INFO" and "SAVE" keys at same time, then turn on the power switch, release "INFO" and "SAVE" until the LCD window display  .

2) When the screen displays  , you must press any key within 5 seconds to enter password setting interface, otherwise will exit the menu setting and enter the working state.

#### Input initial password

1) The screen displays  and **Password** , and the hundreds digit flashes, indicating that the station has entered password input mode. Input the initial password "000" when entering the menu settings for the first time.

2) Password input: press the AIR "▲" or "▼" key to adjust the hundreds digit, then press the "SAVE" key to confirm the hundreds digit, and enter

the tens digit input. The tens and ones digit input is the same as the hundreds digit input.

3) There are three password input opportunities, as long as the password is entered correctly once, it will enter the menu settings.


4) If the password is input incorrectly for three consecutive times, will exit the menu setting and enter the working state.

After entering the menu setting interface, the screen display " **Set** " .

## 10. 2. New Password Settings

1) Press "CH1" and "CH2" keys at same time, and enter the password setting interface.

2) The password is modified as follows:

The screen displays  and  **Password**, and the hundreds digit flashes, indicating that the station has entered password modification mode.

3) Press the AIR "▲" or "▼" key to adjust the hundreds digit, then press the "SAVE" key to confirm the hundreds digit, and enter the tens digit input. The tens and ones digit input way is the same as the hundreds digit input. After the input is completed, the one digit flashes, at this time, press the "SAVE" key to enter the new password for the second input.

4) The password can not be changed if the password input twice are different, and return to menu setting.

5) The password is changed successfully if the password input twice are same. The new password flashes three times, and the station gives three "beep" sounds (the prompt tone has been set), and then returns to the menu settings.

After the menu setting is completed, press the "SAVE" key to enter the working state.

### **10. 3. Key Tone Settings**

Press the "INFO" and "CH1" keys at the same time to switch the presence/absence of the tone.

### **10. 4. Pedal Switch Settings**

Press the "INFO" and "CH2" keys at the same time to switch the pedal switch function on or off.

### **10. 5. Locking and Unlocking Settings**

Press the "INFO" and "CH3" keys at the same time to switch between the locking state and the unlocking state.

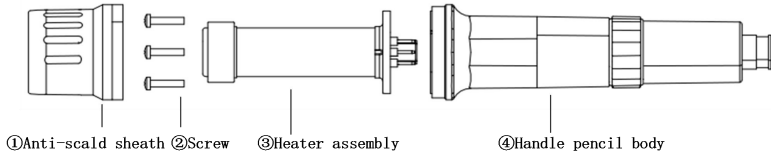
## 11. Temperature Calibration

The temperature should be recalibrated every time if the heating element is replaced.

- 1) In the working state, set the calibration temperature 300°C.
- 2) When the temperature is stable, test the air outlet temperature with QUICK196 and record the reading value.
- 3) Press the keys "TEMP▲", "TEMP▼", "INFO" , "SAVE" at the same time , and then the LCD will display "⚙ ---", the station will enter the temperature calibrating mode.
- 4) The display temperature of hundreds digit flashes, press Air "▲" or "▼" key to change the value, input the reading value and press the "SAVE" key to confirm the digit selection. After inputting the testing result, press the "SAVE" key, and the temperature calibration is completed.


Note: If there is no QUICK196, it is recommended that the temperature measuring head of the external sensor of the thermometer be placed 3~5mm away from the nozzle for temperature test.

## 12.Replacing the Heater



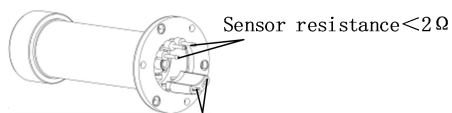
### 12. 1. Steps of Removing the Heater

- 1) Unscrew ① Anti-scalding sheath at the front of the handle.
- 2) Unscrew ② three screws fixing the heater steel pipe.
- 3) Pull out the damaged ③ Heater assembly.

 Note: All operating steps are performed with the power disconnected and the handle cooled

### 12. 2. Steps of Replacing the Heater

- 1) Align the pins of the new ③ Heater assembly with the socket of ④ Handle pencil body and insert it vertically.
- 2) Reinstall ② three screws that fix the steel pipe.
- 3) Tighten ① Anti-scald sheath.
- 4) After the heater is replaced, please do the following measurements:

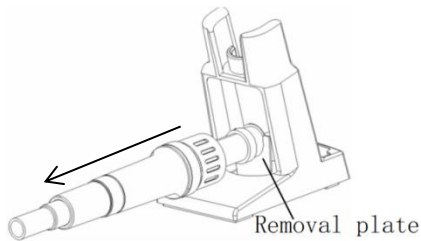


Heater resistance :  
220V:  $40\Omega (\pm 10\%)$   
110V:  $10\Omega (\pm 10\%)$

- 5) Calibrate the temperature, refer to temperature calibration.

## 13.Installing and Removing the Nozzle

- 1) Installation: insert the selected nozzle into the air outlet steel pipe of the handle, and then press the air nozzle into the air outlet steel pipe by hand, and make sure that the air nozzle has been clamped before use.
- 2) Removing: when disassembling the air nozzle, remove the handle from the holder. There is a card slot between the air nozzle and the steel pipe of the air outlet. Put the handle on the air nozzle removal plate through the clamping groove, fix the holder with one hand, and then gently pull the handle back to take out the nozzle.



△Note:Air nozzle can be customized  
Replace the air nozzle after cooling down to avoid scalding.

## 14.Troubleshooting

NO.	Error display	Error description
1	H-E	Indicates that there is a problem with the heater and the heater needs to be checked or replaced.
2	S-E	Indicates that there is a problem with the sensor and the sensor needs to be checked or replaced.
3	ERROR	Indicates that the fan is faulty and needs to be checked or replaced.



## Warranty Card

●The warranty period of this product is calculated from the date of Purchase. During the warranty period, if the product breaks down during normal use, show the original warranty card and enjoy free service in the authorized repair company(or our company). Please keep the purchase certificate and this warranty card and show it before maintenance.

●During the warranty period, the following repairs need to be paid:  
a.Unable to offer valid warranty card or certificate;

b.The purchase date, sales company and other items are not completely filled or the warranty card is altered;

c.Damage caused by failure to follow the use methods and precautions in the manual;

d.Damage caused by disassembly, repair and modification of products without authorization of the manufacturer;

e.Replacement of vulnerable and consumable parts.

●All items of the warranty card shall be completely filled in by the agent or user to obtain a 12-month warranty period.

●Please keep this warranty card properly It will not be re-offered after.

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## Warranty Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

## Warranty File Card

Type: \_\_\_\_\_

Model No.: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

Address : \_\_\_\_\_

Postcode: \_\_\_\_\_

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