

**SOLDERING STATION** **858**  
Brushless Fan with Soft Air  
Unsoldering Equipment With  
Hot Air for SMD  
**Instruction Manual**

**Model: 858**  
**858D**



## WARNING

A fire may result if this equipment is not used with care and for intended applications.

To avoid electric shock or injury, please follow the instructions below strictly:

- This appliance must be grounded.
- The temperature of this equipment can reach 500°C. Never touch any metal part of this equipment.
- The unit can output extremely hot air; to avoid serious injury, never point the nozzle towards any part of the body.
- Never use this equipment near any flammable materials or gases.
- Never operate the equipment with wet hands.
- All the electrical circuitry within this equipment is rated to operate at the relevant Mains line voltage (depending on model). Always disconnect the power cord before beginning any repairs and maintenance Work.



## CAUTION - Important Instructions

In order to avoid damage to the equipment, and ensure a proper working environment, please follow the instructions below:

- Operate this equipment in a well ventilated room away from any combustible Materials.
- When not be in use, make sure the unit is unplugged from outlet.
- Place handle in stand when not in use.
- Do not drop. Do not use excessive force on the handle. Too much shock and / or Vibration may damage the quartz crystal inside the handles thermal tube.
- Do not operate on uneven surfaces.
- Do not pull or carry the equipment by the handle; this may break the wire inside the handle or disconnect the air tube.
- Allow to cool down before storage.
- When resting the handle on the handle holder, make sure there are no objects within 30 cm of the tip of the nozzle as nearby objects maybe damaged.
- Do not leave the equipment unattended when switched on.
- Do not disconnect from the mains voltage until pump has stopped running.

## 1. Feature

1. Closed circuit Sensor, microcomputer zero-crossing soft touch temperature control, LED visual display, high power, rapid rise of temperature, accurate and stable temperature, little influence of air outflow, and unsoldering without lead.
2. Adjustable airflow, large and soft airflow, easy adjustment of temperature, suitable for multiple usages.
3. Hand handle with sensor switch, the system will turn into the working mode while the handle is held; and the system will standby while the handle is put on the holder, which is convenient for operation.
4. Automatic cooling function of the system will prolong the life of heating element, and protect the hot air gun.
5. Brushless fan with long lifetime, low noise; high quality heating element with good quality heating wire and double efficiency of the same power will prolong its life and save energy.

## 2. Specification

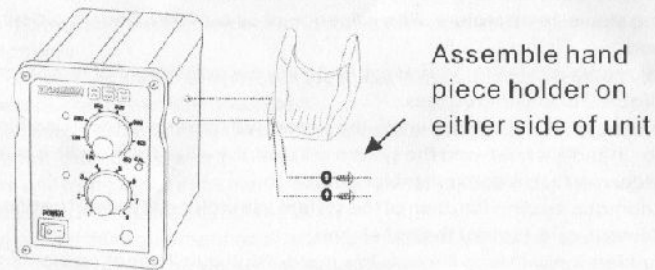
Model No	858	858D
Type	Luminous discharge tube display indication	LED digital display
Power Consumption	700W	
Type of Pump & Airflow	Brushless fan with soft air	
Amount of Airflow	120L per minute (Max.)	
Temperature Range	100°C-450°C	
Type of Display	Luminous discharge tube of LED	Microcomputer digital LED (Resolution rate:1)
Size	13.8cm(H) × 10cm(W) × 15cm(L)	

## 3. Usage

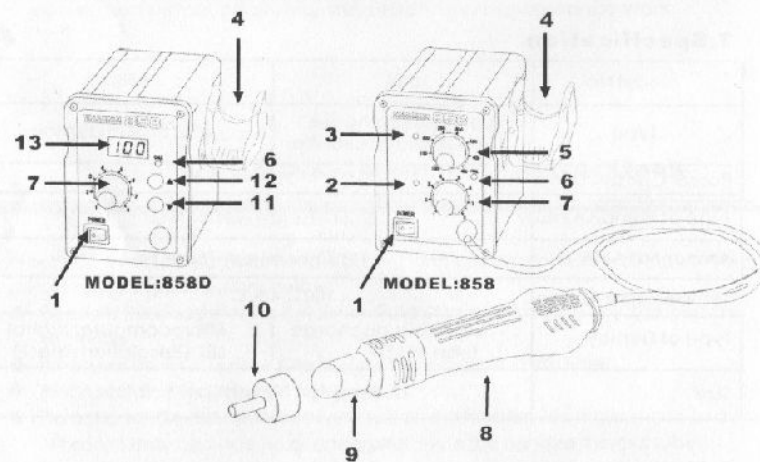
1. Suitable for unsoldering multiple components, such as SOIC, CHIP, QFP, PLCC and BGA, etc. (especially for flat cables and cable connectors).
2. Applicable for hot contraction, heating, depainting, degluing, defrosting, preheating and rubber soldering, and so forth.



### 3. Preparing to Use Unit



### 3. Operating Instructions



- |                            |                                |
|----------------------------|--------------------------------|
| 1. Power On/Off            | 10. Nozzle                     |
| 2. Air Flow Indicator      | 8. Handle                      |
| 3. Temperature Indicator   | 9. Heater Assembly             |
| 4. Handle Holder           | 11. Temperature +              |
| 5. Temperature Control     | 12. Temperature -              |
| 6. CAL Pot Plug/Calibrator | 13. Temperature display window |
| 7. Air volume control      |                                |

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### 4. Operation Instruction

1. To put the Unsoldering Equipment ready, and leave handle on the holder.
2. To connect the power.
3. To set the blast nozzle (large caliber nozzle preferred) .
4. To switch on the power, the screen displays "---" , it represents standby mode. (Available in microcomputer with digital LED)
5. To press "▲" or "▼" button (revolving switch) as to set up the temperature. (Available in microcomputer with digital LED)
6. To turn the temperature switch as to set up the required temperature. (Available in luminous discharge tube display indication)
7. To hold the handle, so the equipment begins to heat. To adjust the revolving switch of airflow in order to Select suitable airflow, and begin to operate normally while The temperature is stable.
8. To put back the handle on the holder after the work; meanwhile, the Unsoldering Equipment switch from heating mode to cooling heating element mode automatically. While the temperature is lower than 100°C, the screen displays "--" , it stands for switching to standby mode, and after the temperature of heating element is less than 70°C, the equipment is on standby (If there is airflow out, it means the temperature is higher than 70°C;and there is no airflow only after the temperature is lower than 70°C)
9. To switch off the power and unplug if there is no operation for a long period of time.

#### Attention:

**Try to set up the temperature as lower as possible and the airflow as much as possible as to keep heating element working longer and protect IC chips.**

#### 5. Setting up Temperature

1. Unsoldering Equipment with luminous discharge tube display indication:
  - \*To turn the temperature control switch to the required mark.
2. Unsoldering Equipment with microcomputer digital LED visual display:
  - \*To press ▲ or ▼ button (revolving switch) the screen displays the temperature while The power is on.
  - \* To press ▲ once (revolving clockwise) the temperature degree is added 1°C, the screen Displays the temperature; to press ▼ once (revolving anticlockwise), the temperature degree is subtracted 1°C; and ▲ or ▼ button is pressed continuously, the temperature will increase or decrease rapidly. After the button is released, the screen displays set temperature for two seconds and then displays current temperature or " --- " the standby mode.

#### Note: Explanation of Symbols

- A. " --- " represents the temperature is lower than 100°C standby mode, and the handle is on the holder.
- B. " S-E " represents there is problem of the sensor, so the heating element (inc. heating material and components) shall be replaced.
- C. " S-A " represents there is problem of the memory, so the memory (it can save the set temperature for 100 years ) shall be replaced.
- D. The temperature is lower than 50°C and no raise of it while it is working, which represents there is problem of the heating element, so the heating element (inc. heating material and components) shall be replaced.

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## 6. Terms Of Use

1. The air outlet and its surrounding area may be very hot. Be cautious of scald.
2. The heating handle shall not be put on the working table or other place except its holder.
3. To keep the air outlet unblocked.
4. To put the heating handle on its holder after the work, and keep it cool naturally to the standby mode, then switch off the power.
5. The distance between the air outlet and the object shall be no less than 2mm.
6. To choose suitable blast nozzle in accordance with working requirements. Different blast nozzles may have different temperatures.

## 7. Replacement of Heating Element

1. The heating element shall be replaced during its cooling condition.
2. To fasten two screws fixed on the handle as illustrated.
3. To disassemble the component of the handle, and then take out the handle cover.
4. Move the equipments gently and screw off three screws used for fixing the terminal board.
5. To turn over the terminal board and disconnect the connection from it, and be careful of the connection position.
6. To take out the heating element and mica paper coving it from the steel tube, and not to break the ground connection.
7. To wrap the neo heating element with mica paper, and insert it into the steel tube and be careful of correct installation.
8. To connect the connection in accordance with its former position.
9. To install the handle.

### Attention:

1. Do not break the ground connection on the steel tube during the replacement of heating element.
2. Do not break the connection on the Unsoldering Equipment during the replacement of heating element.
3. The link assembly on the handle cover shall be put inside of fixing hole on the steel Tube during the installation of handle components.

