HOT AIR GUN REWORK STATION

INSTRUCTION MANUAL

English

568 858 858D 898D

768 868 878D 898D+

Thank you for purchasing this product, please read this manual before using. After read it, please keep it for the future use.

cablematic

Warning!!!

Use the machine, the following basic measures should abide, avoid electric shock and injury or damage caused by fires.

1. To ensure personal safety, after the machine completed work, please turn off the main power switch, and unplug the power cord if long time no use.
2. To ensure personal safety, you must use the original approval or recommendation of the parts, otherwise it will lead to serious consequences.
3. The machine failure must be maintained by the person in charge or by our designated repairer.
4. This product is grounded three-wire plug, must be inserted within the three hole grounded outlet, do not change the plugs or use ungrounded three adapter made it bad grounded.
5. When hot air gun or soldering station is open, its temperature are likely to reach over 400 ℃. Do not use it near flammable and combustible gas or materials. Tube and the heat emitted very hot, can burn the body, do not touch the hot pipe and direct injection to heat the human body.
6. Before hot air gun turned on, please ensure it is in safety environment, do not leave the operating platform.
7. When the hot air gun opening do not install nozzle, the heat pipe and the nozzle must be installed after cooling.
8. Please keep inlet and outlet air flow, do not have obstruction.
9. After use, remember to cool the machine body, the handle should be released into the handle frame, then shut down the machine to sleep.
10. Do not use the soldering iron outside soldering. Do not iron percussion on table to clear the residual flux, this could seriously damage the iron.

I. Product Features

1. Sensors closed loop, Zero-crossing triggering microcomputer temperature control, LED display big power supply. Heating up rapidly, the temperature accuracy and stability, without effect of the air flow, and truly achieved lead-free solder.
2. Air flow rate is adjustable, can be large but soft. The temperature regulation is convenient, can adapt to a variety of uses.
3. The handle has sensor switch, as long as hold the handle, the system can quickly enter into the working mode. If the handle released into the handle frame, the system will enter standby mode, real-time and easy operation.
4. The system has automatic air cooling function, to extend life and protect the hot air gun.
5. Using extremely long life brushless fan, low noise. Using high-quality heating element, under the same power, the efficiency improvements double, which can effectively extend the service life of heating element and power savings.

II. Specification

Main

Series	858/568/858D/878D/768/898D/868/898D+							
Model	858	568	858D	878D	768	868	898D	898D+
Power	650W±10%			700W±10%		750W±10%		800W±10%
Air flow type	Brushless fan soft wind							
Temp. range	100℃~480℃							
Display type	LED indicator	LED Display (Temp. Stability: 1℃)						
Cable length	120cm							
Weight	1.98kg			2.8kg		2.7kg		2.9kg
Noise	<45dB							
Work environment	0~40℃							
Storage environment	-20~80℃							
Storage humidity	35~45%							

Hot air gun

Air flow type	Brushless fan soft wind	Brushless fan soft wind
Air Flow	⩽120L/min	⩽120L/min
Temp. range	100℃~480℃	100℃~480℃
Display type	LED Display	LED indicator
Noise	⩽45dB	<45dB

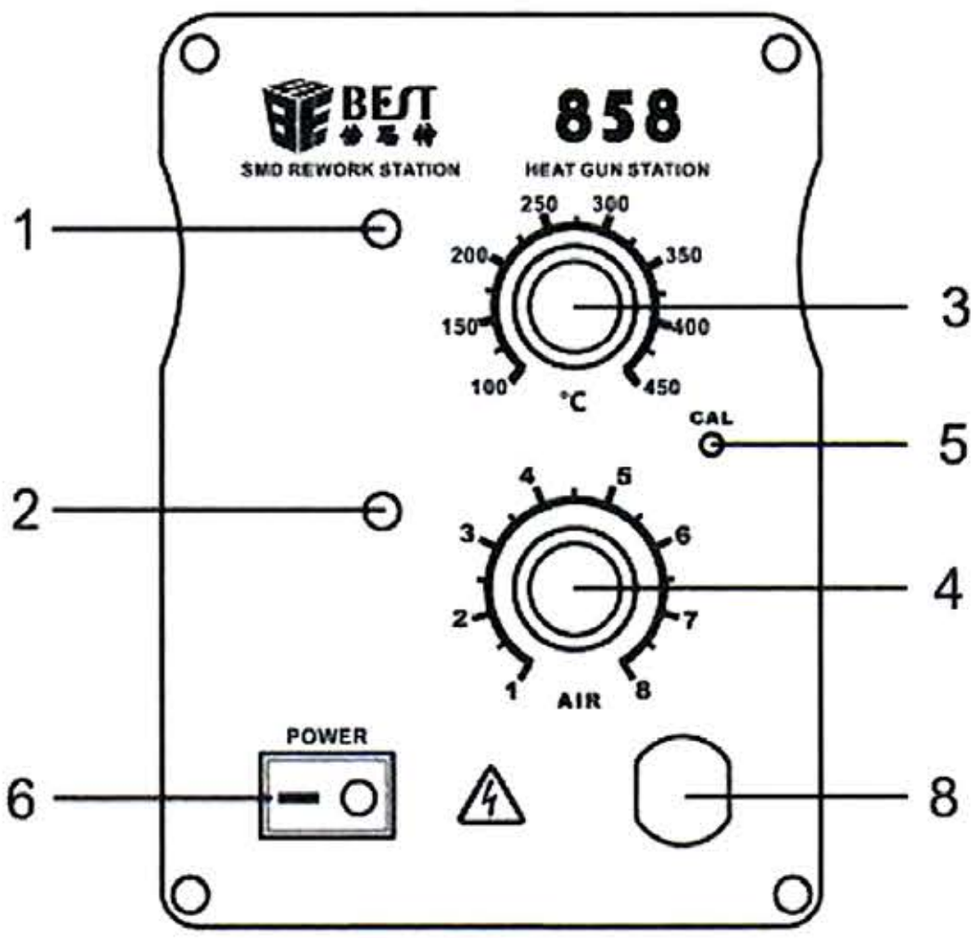
Soldering iron

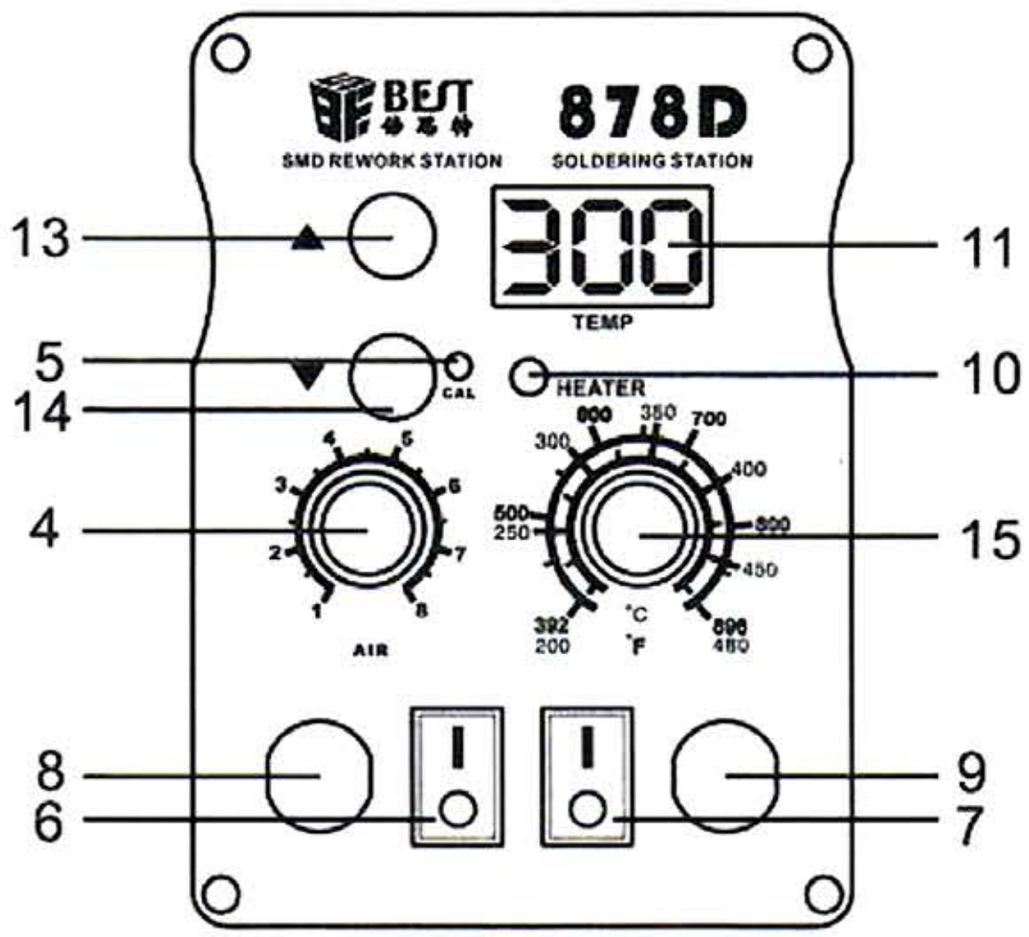
Heating element	Resistance	Temp. range	Cable length	Power
Winding Type	11~13Ω	100℃~480℃	120cm	45W
Thermocouple Type	60~65Ω	200℃~480℃	120cm	60W

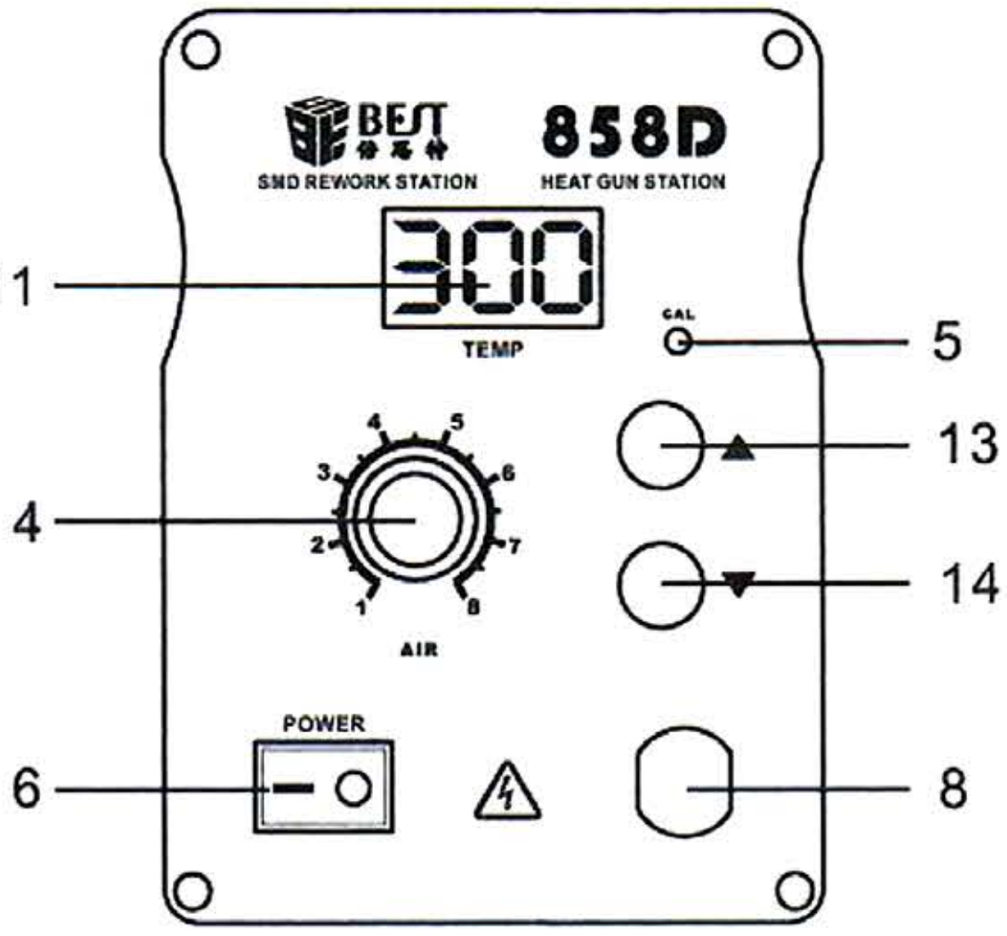
III. General Usage

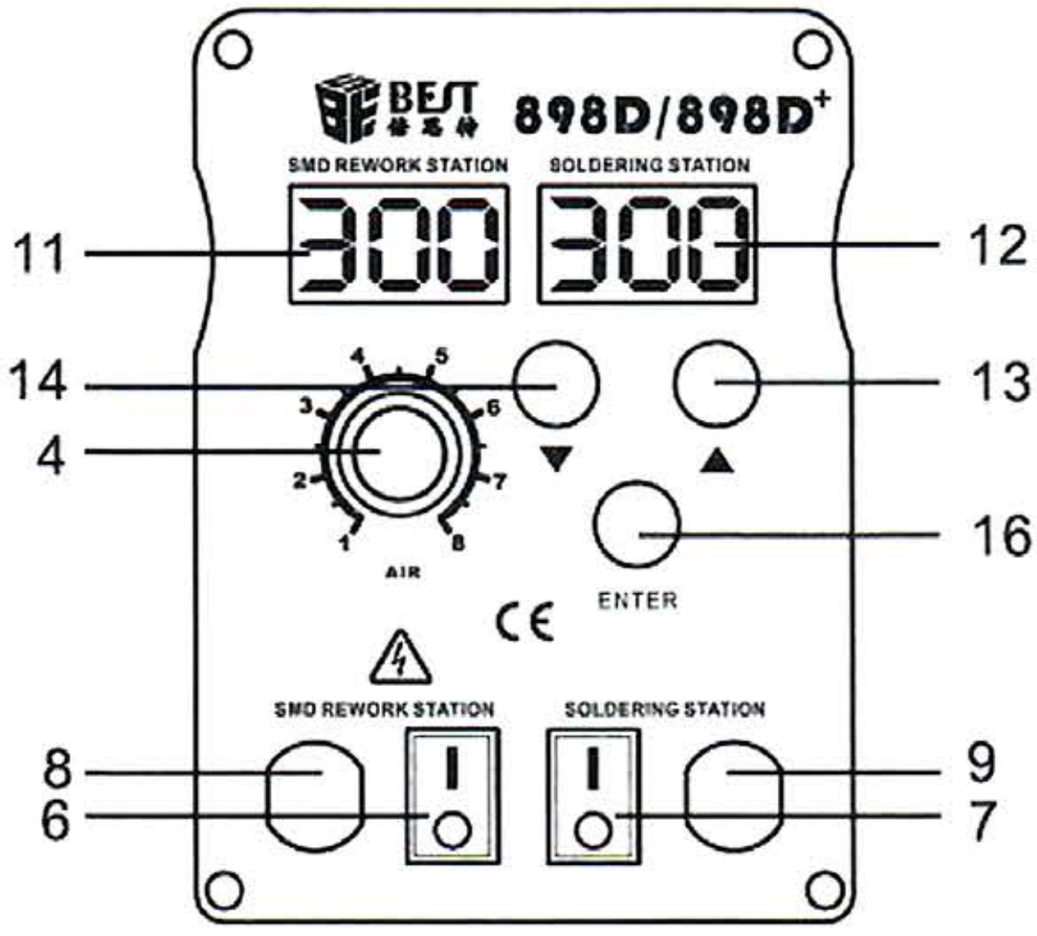
1. Suitable for a various kind of soldering or desoldering (removals) purposes of the electronic components such as: SOIC, CHIP, QFP, PLCC, BGA, SMD, etc. (especially mobile phone's cable board.)
2. Used for heat shrinking, drying, paint removal, adhesion removal, thawing, warming, plastic welding.

IV. Panel Schematic









1. Gun heating indicator
2. Gun air flow indicator
3. Gun temperature adjust knob
4. Air flow adjust knob
5. Gun temperature correction
6. Gun switch
7. Iron switch
8. Gun cable interface
9. Iron socket
10. Iron heating indicator
11. Gun temperature display
12. Iron temperature display
13. Temperature adjust "▲" key
14. Temperature adjust "▼" key
15. Iron temperature adjust knob
16. Function enter key

V. Operation Instruction

Hot air gun

1. Place the machine after gun handle's connection, and the gun handle must be put on the handle frame, or the hot air gun will not work.
2. Connect the power supply, set on the required nozzle. (Best to use large caliber nozzle.)
3. Turn on the power switch, the display screen will display "_ _ _", it indicates that the machine is now in standby mode (LED microcomputer digital display type).
4. Set the required temperature and pick up the gun handle, it will heat up. Press the air flow adjust knob to get the required air flow, then you can work properly after the temperature is stable.
5. When work completed, put the gun handle on handle frame. Let the machine auto cooling down to display "_ _ _" (stop air), when the heating element's temperature is lower than 100 ℃, the machine is in standby mode, then turn off the power switch.

Soldering iron

1. Put the iron handle on the handle frame after connection.
2. Turn on the power switch, press the iron temperature adjust knob to set the required iron temperature, the iron heating indicator will bright in the iron heating process. When the indicator flash regularly, the soldering iron is now on constant temperature mode.

Notes:

1. **Only when the handle is connected to the machine can be power on. All the components must be removed in the case of power off. (Electric shock warning!)**
2. **During the soldering work, air gun outlet or soldering iron tip will be heated above 100℃ to 480℃, do not touch the air gun or iron metal parts. When you replace the air gun nozzle and iron tip or other components, you should turn off the power, and cooling to room temperature. (Burn warning!)**

VI. Temperature Adjust

1. Light pipe indicator hot air gun rework station:

Turn air gun temperature knob (heating up/cooling down) adjust to desired temperature.

2. LED digital display hot air gun rework station:

(1) When the power on, press "▲" or "▼" key, the display screen will display the setting temperature.

(2) Press "Enter" key, the first character on the screen will flashing , this time is temperature setting state. Press "▲" or "▼" key to set the desired temperature. Then press "Enter" key, flashing character will move to next. After complete setting, it will auto memory.

Press on "▲" or "▼" key for a while, the temperature will rapidly rise or fall. Release the key, the screen will display the setting temperature for two seconds, then display the actual temperature or "_ _ _" (standby mode).

VII. Display Notes

1. When the LED screen displays "_ _ _", it means the outlet temperature is below 100℃, the machine is in standby mode and the handle is placed on the handle frame.
2. When the LED screen displays "S _ E", it means the rework station or the handle's sensor has a problem or handle is un-plugged, if the case hasn't been resolved it needs to replace the heating element (heating core's element and sensor components).
3. When the station working, temperature display lower than 100℃ and no longer to heat up, it means the station heating element maybe damage, it needs to replace the heating element (heating core's element and sensor components).

VIII. Attentions

1. Please keep the air vent unimpeded and no obstructions.
2. When work completed, must put the handle on handle frame. Let the machine auto cooling down to 70℃ and display "_ _ _" (stop air), then can turn off the power switch.
3. According to work requirement, choose appropriate nozzle. Different nozzle with different temperature.
4. The distance between outlet and object should be at least 2 mm.

IX. Component Replacement

Replacement of Hot air gun heating element

1. Ensure the hot air gun is fully cooled down before replacing the element.
2. At first, loosen the two screws on the handle.
3. Turn the handle anti-clockwise until it comes off and then remove the handle's cover.
4. Gently takes out the fan, loosen the three screws to remove the fixed wiring board.
5. Turn the wiring board upside down, apart the heater connection cable from wiring board, pay attention to the connection location.
6. Remove the heating element and the mica paper wraparound from the tube, be careful not to break the ground wire on the pipe.
7. Wrap the new heating element with mica paper, insert it into the tube, notice that should be installed in place.
8. According to the original location of the connection to connect the heater.
9. Fit the handle back as the opposite process of disassembled.

Replacement of Soldering iron's tip and heating element

1. Unscrews the nut, and then removes the steel tube, now you can remove the iron tip for replacement.
2. For the replacement of heating element can be performed by unscrewing the plastic cap, pulls out gently the heating core's element along with the circuit board, please carefully remember the connection of the spring.
3. Soldering the element down from the circuit board and replace the new heating element. Note that the order of the heating element wire connection.

Notes:

1. Be careful not to damage the ground wire during the replacement !

2. Pay attention to the order and color of the connection cable, can not take wrong !!

3. Please replace the same type of heater and heating element !!!