ESD-Safe Desoldering Station

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

OPERATION INSTRUCTION

English

Made in China

Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

I. APPLICATIONS

This unit is suitable for specialty desoldering applications on a broad-range of through-hole and other components. The station is especially great for desoldering operations on through-hole components with multiple pins or leads. (E.g., Transformer, LCD screen, LED, IC chips, In-Line pins and more)
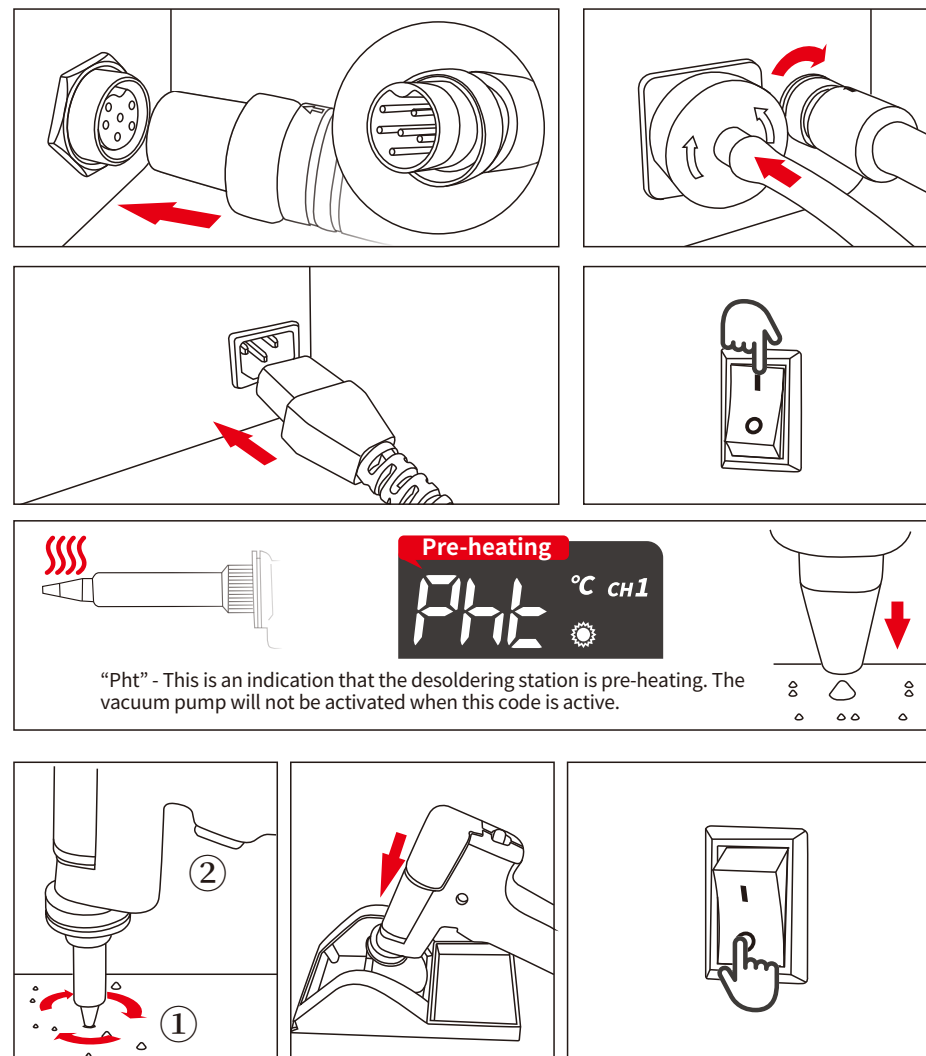
II. REFERENCE DIAGRAM
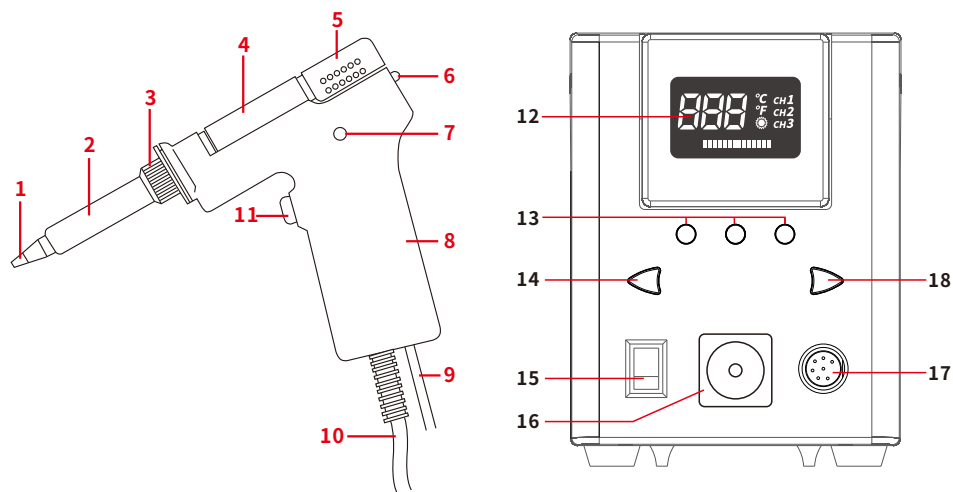
1. **Desoldering Nozzles (Consumable)**
2. **Steel Enclosure**
3. **Fastener**
4. **Filter Chamber (The spring inside is consumable)**
5. **Chamber Release**
6. **Release Button**
7. **Indicator**
8. **Casing (Desoldering Gun)**
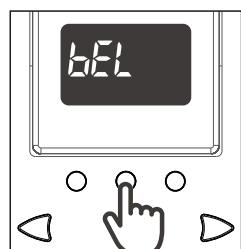9. **Vacuum Tube**
10. **Cord (Desoldering Gun)**
11. **Desoldering Trigger**
12. **Temperature Display**
13. **Pre-set Channel Button**
14. **Temperature Decrease Button (Desoldering Station)**
15. **Power Switch**
16. **Receptacle (Vacuum Tube)**
17. **Receptacle (Desoldering Gun)**
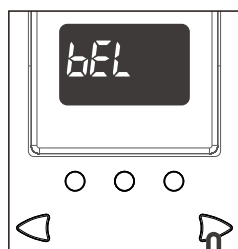18. **Temperature Increase Button (Desoldering Station)**

III. OPERATION

● **Installation and Operation**

Pre-heating

"Pht" - This is an indication that the desoldering station is pre-heating. The vacuum pump will not be activated when this code is active.
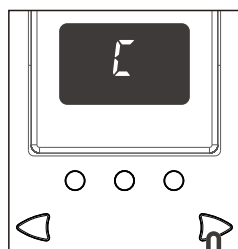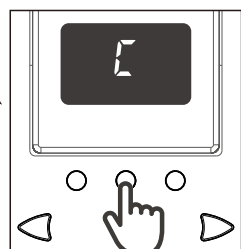
● **Buzzer Prompt**

bEL
Press and hold for
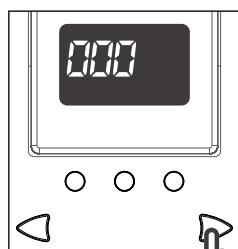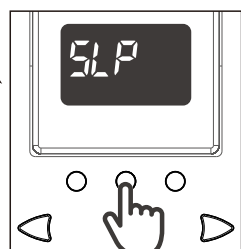approximately 2 seconds

bEL
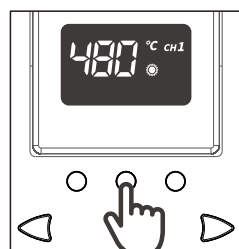ON/OFF

● **Fahrenheit/Celsius Conversion**

C

C
C/F

● **Sleep Mode**

Sleep mode timer: 0-120 minutes. Set the timer to 0 to turn OFF sleep mode.

SLP

000
0-120 Minutes

480 °C CH1

● **Automatic Stand-by**

When the desoldering station enters sleep mode, its CPU will start counting down. If the desoldering station is not wakened after 30 minutes, the soldering station will automatically enter stand-by mode. Please restart the desoldering station by turning OFF the power switch and then turn back ON.

Note: The automatic stand-by function only activates when the desoldering station's sleep mode is turned ON.
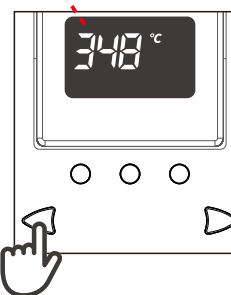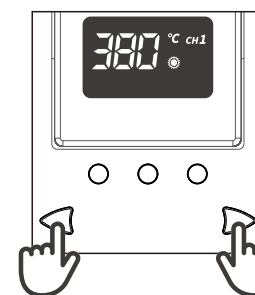
● **Digital Temperature Calibration**
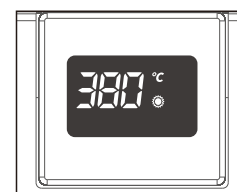
380 °C
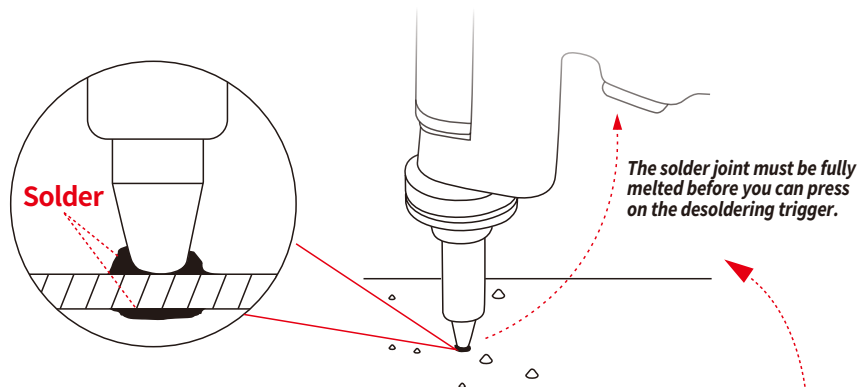Stabilized Temperature
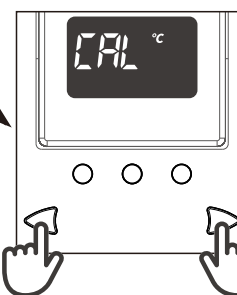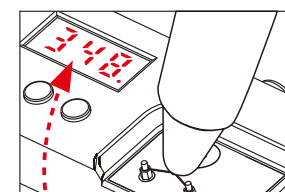
CAL °C
Press and hold for
2 Seconds

348 °C
Enter the measured
temperature value

380 °C CH1
Press and Hold

IV. MAINTENANCE & PRECAUTIONS

1.

Solder

The solder joint must be fully melted before you can press on the desoldering trigger.

2.

Hole **Solder Residue**

Circuit Board **Circuit Board** **Solder**

3.

Hole **Solder Residue**

Component Pin **Circuit Board**

Nudge the desoldering gun to center the component pin within the hole on the circuit board.

The solder joint must be fully melted before you can press on the desoldering trigger.

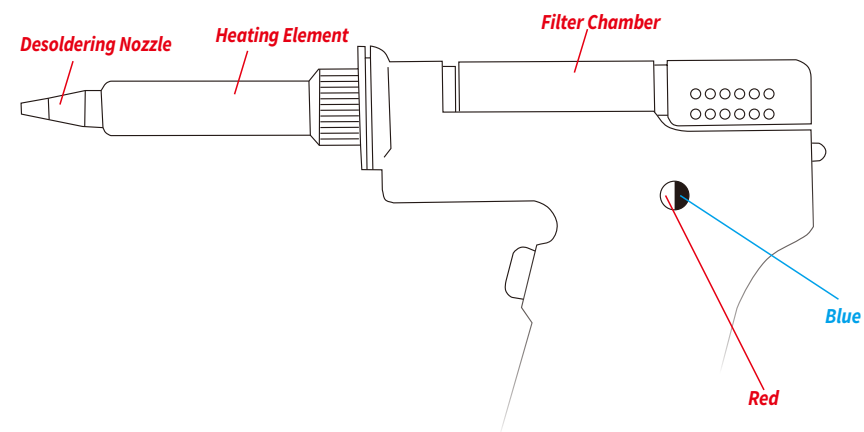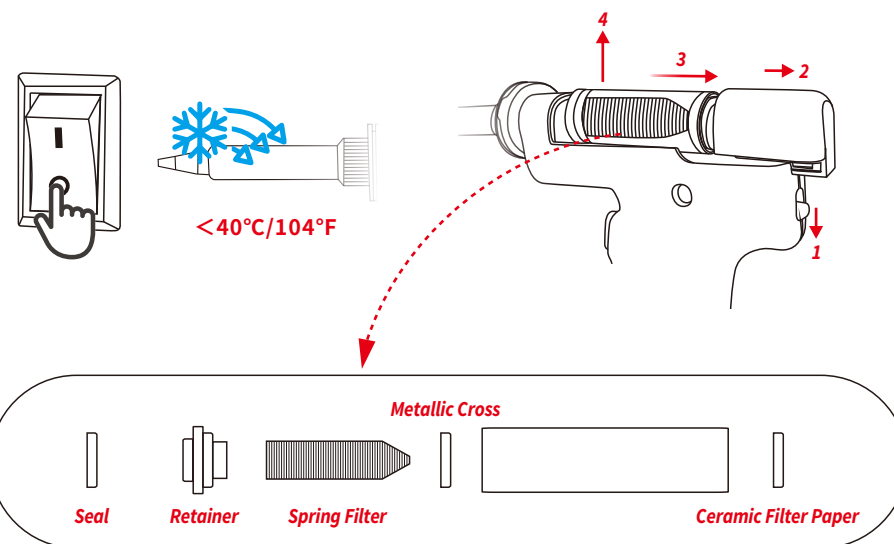**Desoldering Nozzle** **Heating Element** **Filter Chamber**

4.

Blue

Red

5. Cleaning: Filter Chamber
   Caution:The filter chamber can only be removed after the desoldering has fully cooled!

4
3 2
1

<40°C/104°F

Metallic Cross

Seal **Retainer** **Spring Filter** **Ceramic Filter Paper**

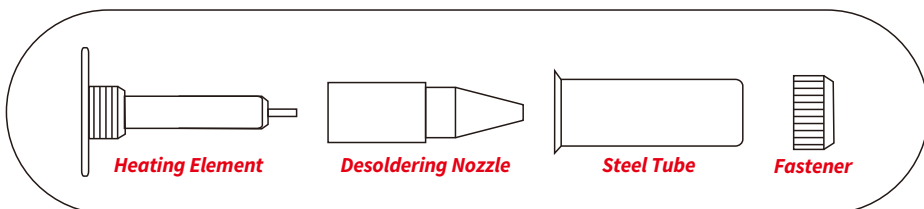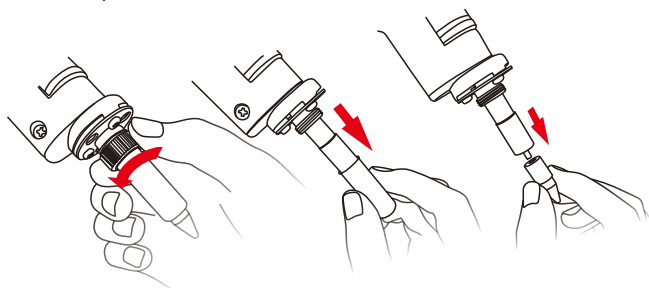*Replace the respective components inside the filter chamber if any of the following conditions occur:*
1) Unable to remove the solder from the spring filter, or the filter has collected more than 2/3 of solder of its capacity – Replace the spring filter
2) The retainer has hardened and cracked – Replace the retainer
3) The ceramic filter paper is hardened due to the over-accumulation of solder and flux – Replace the ceramic filter paper

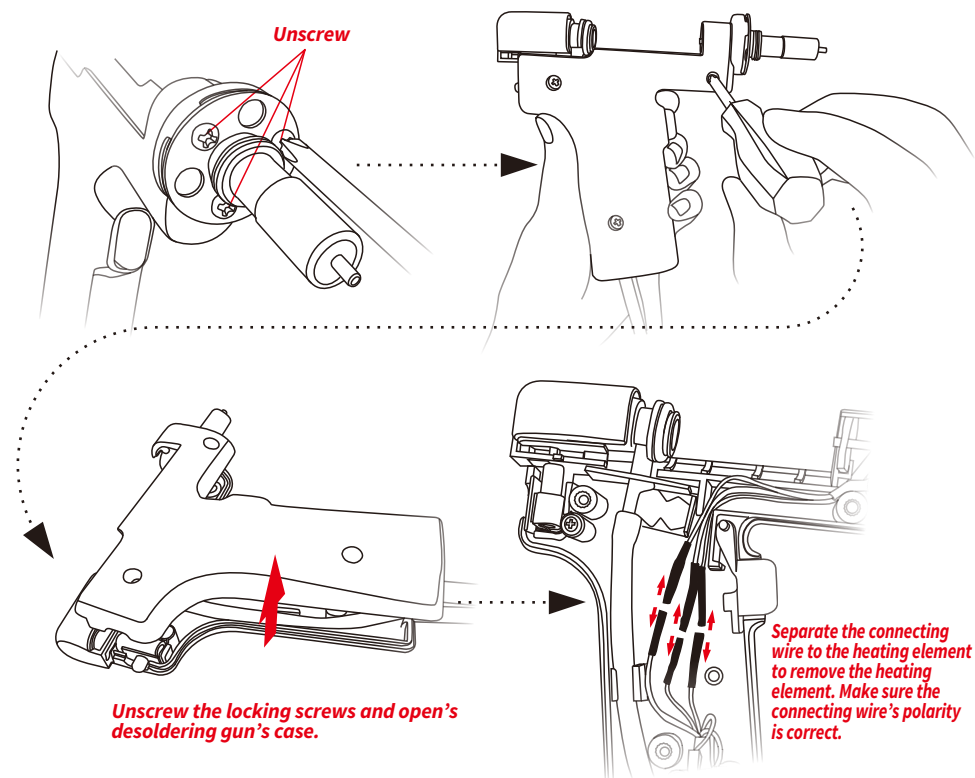6. Cleaning the Desoldering Nozzle and Heating Element

450°C/842°F
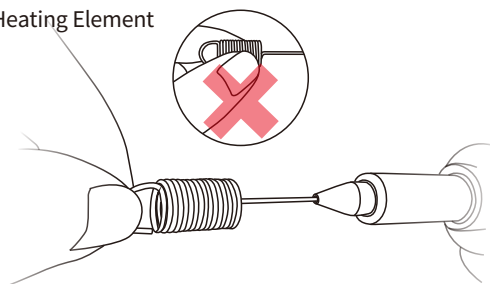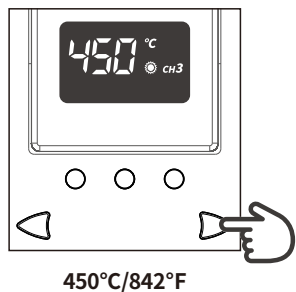
CAUTION:
The solder in the heating element's inner hole must ONLY be cleaned when completely melted. If the cleaning pin cannot be put through the heating element's inner hole, change into a new heating element.

7. Desoldering Nozzle Replacement

Heating Element   **Desoldering Nozzle**   **Steel Tube**   **Fastener**

8. Heating Element Replacement

Unscrew

Unscrew the locking screws and open's desoldering gun's case.

Separate the connecting wire to the heating element to remove the heating element. Make sure the connecting wire's polarity is correct.

Assemble the desoldering gun in the reverse order of the disassembly and calibrate the temperature.

V. TROUBLESHOOTING

1. "S-E" – This is an indication that the desoldering station's sensor module is faulty. You need to replace the heating element (the heating element and the sensor modules). Or, the either the desoldering iron or the soldering iron is not connected (Turn OFF the station, connect the respective handle and turn ON the station).
2. "SLP" – This is an indication that the station is in sleep mode.

SPECIFICATIONS

Main Unit dimensions	L220xW120xH156mm ±5mm
Operating ambient temperature	0°C～40°C/32°F～104°F
Temperature range	380°C～480°C/716°F～896°F
Display	LCD
Tip to ground resistance	<2 Ohms
Vacuum pressure	0.05MPa