145X210MM 2016-08-16

LW LONG WEI®

LW 8586 D

THERMO-CONTROL DIGITAL-DISPLAY & ANTI-STATIC

SOLDER STATION & SMD REWORK

2 in 1

USER MANUAL

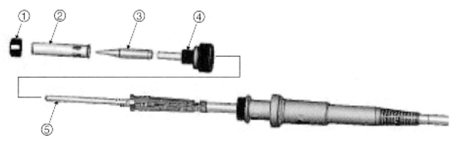
LONGWEI INSTRUMENT (HK)CO, LTD

LW8586D 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

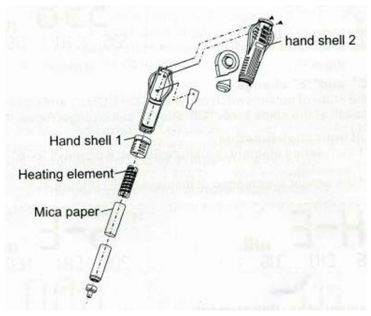
Using this device，you must abide by the following measures in order not to get an electric shock, result in damages to people or result in fire，etc.

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. Don't 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℃.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



Accessories list

1. **Main device and handle of the rework station**
2. **Handle frame**
3. **Soldering iron**
4. **Iron holder**
5. **Power line**
6. **Using manual**



The replacement of soldering station heating element

1. Cut the power and wait until the heating element is cool.
2. Like the figures showed,unscrew the nut ①,exit stainless steel②and tip ③,and the screw the fixed stand ④and take down the heating element ⑤.
3. Replace the heating element and install it well according to the contrary method.

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

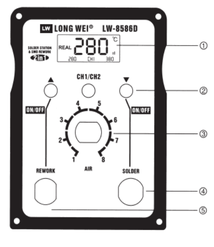
1.Clear LCD display of the current working temperature and conditions.
2. Temperature of rework station and soldering station continuously adjusted by digital buttons to meet the needs in different.
3. With stainless stell heating element and front sensor,accurate temperature control and quick-to-temp power -up.
4.Multifunctional integrated desoldering maintenance system combined by rework station and soldering station.
5. 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.

Product diagram



Front panel diagram



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 hands 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 connection wire.

Step 5. Take out the damaged heating element from the steel tube,and replace it.According to the contrary method,install the handed correctly.

Attention:

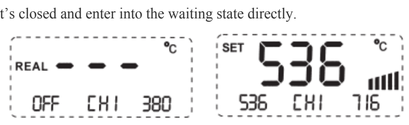
When replace the heating element,be careful and don't break grounding wire.

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.

8.1 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)

8.2 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)

9. "℃" 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)

10. Fault indication function

10.1 If the heating element is malfunctioned,it displays"H－E"（Figure 12）.

10.2 If the sensor is damaged,it displays "S－E"（Figure 13)



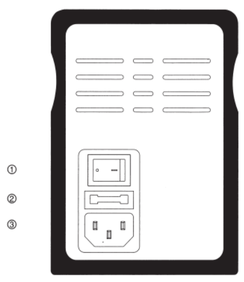
(Figure 12)



(Figure 13)

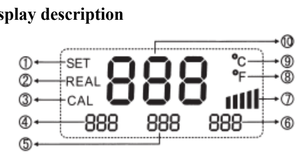
1. LCD temperature display　　2. Press buttons
3. Hot air air volume adjustable button　　4. Soldering station output
5. Rework station output

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℃—500℃）/（212° F—896° F）) or the mark of power off "Off"
⑤ Channel display mark , display "CH1"or "CH2"
⑥ CH2 of soldering station , temperature display（200℃—480℃）/（212° 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：50W±10%（Max）

Temperature：0—40℃

Relative Humidity：＜80%

Storage Temperature：-20—80℃

Rework Station

Input Voltage：AC 110V±10% 60Hz

Power Consumption：50W±10%（Max）

working condition.



(Figure 8)



(Figure 9)

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 trip when testing).Such as the tested temperature is T1(320℃),the display temperature is T2(35℃),the original calibration is display temperature is T3(0℃).The calibrated temperature should be T1(320℃)－T2(350℃)+T3（0℃)=－30℃，then press "▽"key and input－30℃.

7. 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℃， the rework station becomes in sleeping state(Figure 2).It will show "SLP",the sleeping state.Pick up the handle,it works again.

8. The waiting state

5.2 Press"△" or "▽" keys for a long time (more than 3 seconds).

5.3 Short press "△" or "▽"keys to adjust the temperature,and you can see the temperature you adjusted from the display(Figure 6)

5.4 Stop pressing for 3 seconds and the temperature setting finishes.The marks of "real"is light and it display real temperature now(Figure 7).



(Figure 6)



(Figure 7)

6. Temperature calibration (talking rework station as an exam)

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

6.1 Press"CH1/CH2"key,and switch to "CH1". If it displays "CH1" before calibration, no need to switch.

6.2 Press"CH1/CH2"key and at the same time press "△"key over 3 seconds,and enter the state of temperature calibration.The mark "CAL"is light,and "CH1"flashes (Figure 8)

6.3 Short press"△"or "▽" keys and adjust temperature,the calibration range is -50℃~50℃（-58° F~122° F）(Figure 9).

6.4 After temperature calibration,press "CH1/CH2"key and it save the temperature automatically.The machine is back to normal

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

Air Volume：120L/min(Max)

Temperature Stability：±2℃（static）

Soldering station

Input Voltage：AC 26V±10%　　60Hz

Power Consumption：50W±10%

Temperature Range：200℃~480℃（212° F—896° F）

Temperature Stability：±2℃（static）

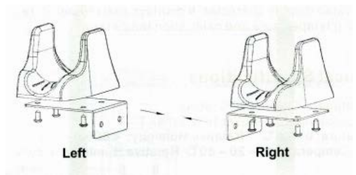
Ground Impedance：＜2Ω

Ground Voltage：＜2mv

Operation instructions

1. 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 screwed tightly.Put the components of the handle on the frame and check if suitable.



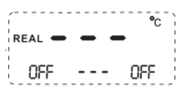
2. Connect

2.1 Put the rework handle on the frame;connect the soldering to the machine and then put on the iron stand(check device schematic diagram)

2.2 Plug the power cord into power outlet.

3. 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)

4. Operate

4.1 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)

4.2 soldering station operation

Press "Δ",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)

5. Temperature setting (talking reworks station as an example)

5.1 Press the key of "CH1/CH2"and switch again.