





SOLDERING STATION & SMD REWORK Comprehensive repair kit

Instruction Manual

Thank you for using this product. Please read the instructions carefully before use to avoid errors in operation.

A Remark:

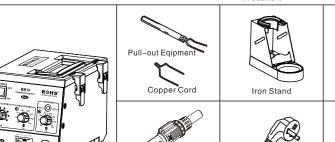
Mainframe

The "warning" and "note" in the specification are defined as follows: Warning: wrong operation shall result in death or serious injury Note: wrong operation shall result in damage to the users or the objects

Packing list

Cord Assembly. 1 FP Pick-up. 1 FP Pick-up wire(L). 1 FP Pick-up wire(S). 1				
	Pull-out Foioment			

Portable Handhold..... Soldering Iron Portable Handhold.....1 ron Stand.....1 nstruction manual.....1 This type is not contain spurt-tip, you will buy tips



Body Features

- ★ Small volume,saving working space with the new design.
- ★ Small body volume, saving working space, portable handle domiation, saving working time.

Portable Handhold

- ★ Automatic sleeping function which saves power.
- *Adjustable air volume & temperature, adapting to de-soldering chips of QFP,SOP,PLCC,&SOJ.

En-compliant power cord

- ★ Setting cooling function; turning offthe power, the system continues sending cool air until the temperature is lower down to 100°C, protecting the elements from high temperature damage.
- ★ Inside temperature sensor setting, ensuring stable temperature for different air volume.
- ★ Static elimination design that is safe for sensitive elements.

Product Specifications

• Comprehensive repair kit						
Part No.	ROHS-RH10					
Display Screen	With lamp display					
Peak Power	1600W					
Powersupply	220VAC/50Hz 110VAC/60Hz					
Dimensions	185(L)*130(W)*137(H)mm					
Weight	1.1kg(W/O Cord)					

• Soldering Station	1
Part No.	ROHS-90W
Powerconsumption	90W
Temperature Range	80 – 480°C
Tip to Ground Resistance	Under 2 Ω
Tip to ground potential	Under 2Mv
Tip Style	T Series tip(Soldering tip)
Exothermic material	A1529
Output Voltage	24V
High temperature resistence sleev	GT04
Cord Length	1.2m
Portable handle weight	100g

Removable Soldering Station

Handhold

ROHS-RH10
1500W
80 – 550℃
±5°C(No loaded)
Level 1~8
24V/8300 Rotation
GP5/GP6(Purchase additionally)
220V/A1626 110V/A1625
220V/110V
1.2m
200g

Removable Accessories

Part No.	Produce Instruction
ZBC00002	FP Removable Connection(S)and(L)Copper Core
WWJ00087	FP Removable Copper Core(S)
WWJ00086	FP Removable Copper Core(L)

*This product is protected against electrostatic discharge *Specifications and design are subject to change without notice

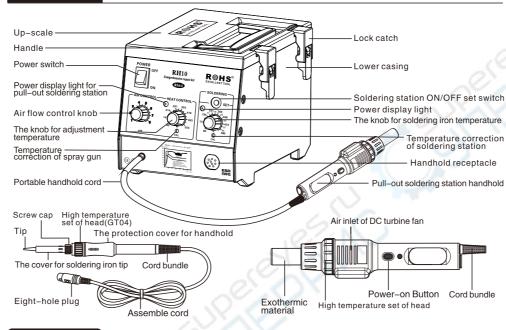
Do not touch the metallic parts

Do not operate nearby the tinder

A CAUTION

- •Do not touch the metallic parts near the tip.
- Do not use the produce near flammable items.
- Do not face the spurt-tip to the worker face.
- Advise other people in the work area that the unit can reach a very high temperature.
- •Turn the power off while taking breaks and when you are finished using it.
- •While replacing parts or picking up this unit, shut off the power and unplug the power cord after cooling. •Do not close the flammable,paper,or other flammable material,is damage to the worker.For new
- equipment, do not touch the heating tube or hot air spurting. Please avoid falling off or violent shaking for fear of damage.
- •Instead of the exothermic material parts must be same parts in a opposite direction.
- •Make sure turn off the power when you are not working
 - Note:Turning offthe power, the system continues sending cool air until the temperature is lower down to 100℃, protecting the elements from high temperature damage.

Part name



Operation

QFP Desoldering

A:Preparation for working

Choose the proper dimension(integration model,pull-out copper cord, spurt-tip and fixed them completely.

1.Place the FP pick-up under the IC lead. Slip the FP pick-up wire under the IC lead. (Figure 1) If the width of the IC does not match the size of the FP pick-up adjust the width of the pick-up by squeezing the wire. In case of PLCC or small

components such as chip resistors, desolder by using tweezers, etc.

2. Attach the nozzle.

Loosen the nozzle mounting screw. Attach the nozzle as shown in the drawing.(Figure2)

B.Iron holder



- Dampen the small cleaning sponge with water and then squeeze it dry. Place it in one of the 4 openings of the iron holder base.
- 2.Add water to approximately the level as shown. The small sponge will absorb water to keep the larger sponge above it wet at all times. The large sponge may be used alone (w/o small sponge & water).
- 3. Dampen the large cleaning sponge and place it on the iron holder base.

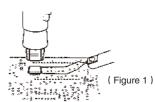
C.Soldering iron handle connection

1. Put the weldering iron the bottom of receptacle. 2.Putting the soldering iron cord with the receptacle(picture2). 3.Insert the pin into the handhold receptacle.

D.Electrical connection and power ON

- 1. Place the handpiece on the holder (Figure 5)
- 2.Plug the power cord into a grounded wall socket

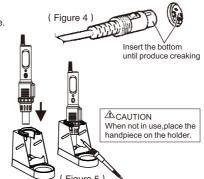
This product is protected against electrostatic discharge Be sure to use a grounded wall socket.





When installing an aptional nozzle to the handpiece.do (Figure 2)





E.Turn on Operation

1.Connect power and remember to use the equipment after grounded:

For two-in-one comprehensive maintenance tool kit, there are two functions including the soldering station and de-soldering station, and it is possible to choose one and choose two of them togethe

- 2. Turn on the power switch of host.:
- Hot air welding gun station display;
- The pulling station indicator is on, showing red, the system is in standby state, but it does not work.
- Soldering station display;
- LED indicator light shows red, and the system is in standby state, but it doesn't work

F.Operation Temperature

- HEAT CONTROL knob on panel is a knob for adjustment of temperature and the adjustable range is 80℃~550℃.
- SOLDERING knob on panel is a knob for soldering-iron of temperature and the adjustable range is 80°C~480°C. Rotate the knob right to increase temperature and left to decrease temperature.

AIR knob on panel is a knob for adjustment of air volume and the scope of air volume is grade 1-8. Rotate the knob right to increase air volume and left to decrease air volume. the pointer should point at the required air volume.

CAUTION: During the cooling process, the amount of air is controlled by the setting of the air flow

H.Cleaning tin course

- 1.After temperature and air volume are set, keep pressing the start button 🔘 to enter working condition;
- 2.If long-time work is required, continuously press the start button () twice to maintain the working condition:

The indicator light displays blue when it is under working condition

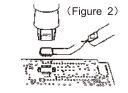
3.Heating

After the stability temperature, the pull-out equipment is on integration model, letting the tip shoot at the part by heating air melting(the spurt-tip is above the integration)

Once the solder has melted, remove the IC by lifting the FP pick=up. (Figure 2)

5.Remove any remaining solder.

After removing the IC, remove remaining solder with a soldering iron and wick or desoldering tool.



I.Soldering station heating (soldering machine)

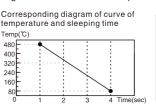
After the power supply is connected, open the power switch, press the OSET key on the panel, and it enters the working state if LED lamp shows blue.

J. SLEEP function settings (soldering machine)

1. The initial setting is the setting without sleeping function.

After the power is connected, turn on the power switch, the indicator light of the power of soldering station soldering iron of turn red. Press Q SET key on laminated panel, LED light turns blue, the system is under the operating state without the setting of the sleeping function

 $2. Setting \ of \ sleeping \ function: \ Under \ operating \ state, \ long \ press \ \textcircled{O} \ SET \ key, \ the \ LED \ light \ of \ soldering \ station \ turns$ purple(red plus blue), it enters the operating state with sleeping function. The sleeping time is 1-4 minutes. At 80 °C , the sleeping time is around 4 minutes. At 480 °C , the sleeping time is around 1 minute. The corresponding diagram of the curve of the temperature and sleeping time is shown as chart:



At 480°C, the sleeping time is 1 minute. When the electric soldering iron eaves unused for 1 minute and it enters the power saving mode.LED red and blue light twinkles, at this time the constant temperature of soldering station is 80°C. If it needs to be used, it only needs to touch handle to awake. It is still not used after enter power saving mode for 30 minutes LED shows red. It means it is standby. If it needs to be used, press SET key of panel to enter operating state

If the function with sleeping function and without sleeping function should be switched, under the operating state, long press SET key, it can be switched immediately.

3. Awake the sleeping of handle: Electric soldering iron enters sleeping state. It only needs to take the electric soldering iron again to restore the previous setup work.

K. Turn off Operation

- Soldering station of heat gun
- a.lf you want turn off please long press and hold the switch button 🔘 , the LED light will be red, and the machine will stop heating. At this stage, do not unplug the power plug until the temperature inside the nozzle sleeve drops below 80°C, the fan will automatically shut down. After the fan stops working, the power switch can be turned off to prevent overheating damage to the heating element.
- b.Automatic air supply of power switch completes, and the power cord must be unplugged under electric leakage to complete the work
- Flectric welding machine
- a. When the system is in working state, press the panel © SET setting button, the LED light will display red, and enter the standby state.
- b.If the LED light of the desoldering station and the soldering station both are red, press the power switch, that is, turn off the power. After turning off the power switch, unplug the power cord to complete the work

QFP Soldering

1. Apply the solder paste. Apply the proper quality of solder paste

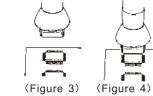
2.Preheat the SMD Refer to the figure 3 to preheat SMD.

3.Soldering 4.Cleaning

Heat the lead frame evenly. (Figure 4) When soldering is completed, clean the residual flux from the board with an appropriate cleaner.

5. Keep pressing start button 🔘 to close the heating state

Long press and hold the switch button O, the LED light will be red, and the machine will stop heating. At this stage, do not unplug the power plug until the temperature inside the nozzle sleeve drops below 80 ° C the fan will automatically shut down. After the fan stops working then the power switch can be turned off



▲ CAUTION

6. Turn the power switch off. After the flowing function finished, turn off the power switch.

Removable Accessories

1.Welding nozzle using:

Too high temperature will weaken the welding nozzle function, so choose the temperature as low as possible. The welding nozzle of restoring force is good, even under the low temperature it can also fully complete the welding work. Whar is more, It can protect temperature sensitive elements.

2.Do not use welding nozzle:

When do not use welding nozzle, do not let welding nozzle in high temperature condition for long time. Or you will make the flux of welding nozzle on change to oxide, which will make the heat conduction of welding nozzle weaker.

After the use, should wipe clean the welding nozzle and plate new tin layer on it to prevent the welding nozzle from oxidation.

4. Elding nozzle maintain; Check and clean the welding nozzle:

Note: do not file the oxide on welding nozzle with rasper!

a. The setting temperature at 250°C

- b. After the temperature stability, clean the welding nozzle with cleaning sponge, and check it.
- c.If welding nozzle on tin part contains black oxide, plate a new tin layer on the welding nozzle, then usec leaning sponge to wipe welding nozzle. So repetitive operation to remove the oxide and then platie a new tin layer on the welding nozzle.
- d.If welding nozzle becomes deformation or serious erosion, must replace the welding nozzle with a new one(Suggest using the original nozzle).

5. Welding nozzle cleaning:

Should periodically clean the weld nozzle with the cleaning sponge (or with a cleaning wet cloth). Because after welding, the residual slag will produce oxide and carbide which can damage the welding nozzle or cause welding error or make the heat conduction of welding nozzle weaker.Long time continuously using welding nozzle, once a week thewelding nozzle should be taken apart to clean the residual slag on the surface, so to prevent welding nozzle damaged and reduce temperature.

- 6.Extend the welding nozzle life:
- a. After each finish the welding work, plate a new tin layer on the welding nozzle to prevent welding nozzle from oxidation and extend the using life.
- b.Under the condition of normal working please set the temperature as low as possible.Low temperature can reduce welding nozzle oxidation, as well as can easily to weld components.
- c.Only in necessary condition to use thin welding nozzle, because of the thin welding nozzle less durable than the coarse one. d.Don't use welding nozzle as detection tools, because welding nozzle bending will make coating rupture and shorten its
- e.Use less active rosin flux, because the high content of active rosin will accelerate welding nozzle coating corrosion. f.When not using welding nozzle, please turn off it's power as far as possible to prolong its service life.
- g.Don't butt welding nozzle with great heavy stress, because that is not equal to faster heat

Removable Accessories





(GP5) (GP6) Air outlet 30mm

Air outlet 21.5mm (purchase additionally)

Removable Accessories

High temperature set of head	GP5
High temperature set of head	GP6(purchase additionally
	·

2.Exothermic material



(A1626 220V/550W) (A1625 110V/550W)

Exothermic material	A1625	110V/550W	
Exothermic material	A1626	220V/550W	

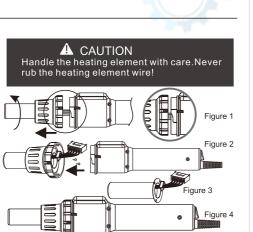
Maintenance/Inspection

Broken heating element

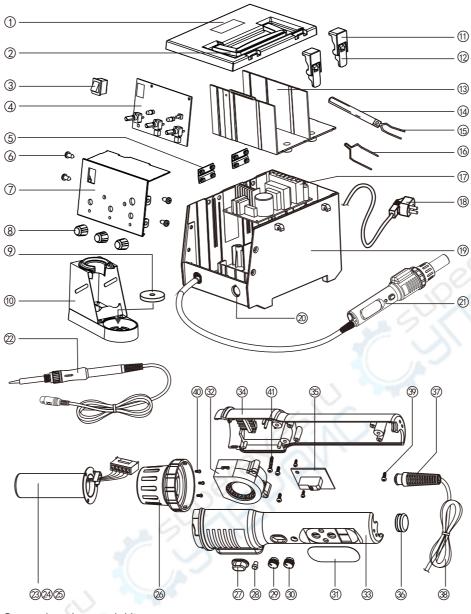
⚠ CAUTION

It is very dangerous to replace the heating element, and you must turn off the power and unplug the power plug, then follow the following procedures for replacement.

- 1. Take out the high-temperature casing head; firstly, rotate the casing head, and then take off it when the two mark at back are aligned (as shown in Figure 1).
- 2. Take off the 5P extension cord (as shown in Figure 2) connected with handle, then take off the 3 screws fixing sleeve of heating element, and last, take off the sleeve and heating element (as shown in Figure 3).
- 3. Replace new heating element as well as the sleeve.
- 4. Assembled to the original shape (as shown in Figure 4).



Parts list



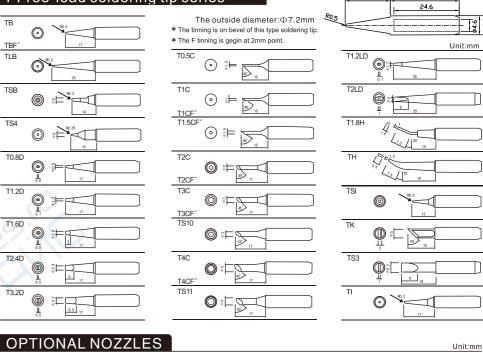
Comprehensive repair kit

Item NO.	Part No.	Part Name	Spec
0	SSJ00179	Upper casing	
2	SSJ00183	Handle	
3	DKG00002	Power switch	6A/250V
4	ZDL00059	PCBA pane With the parts'	
(5)	SSJ00187	Hinges	
6	WLS00070	Tapping screw 1	PA5*12
7	SSJ00181	Panel	
8	SXN00003	Knob	
9	BJZ00001	Clean sponge	
10	ZLZ00008	Soldering iron station L015	
111	SSJ00184	Upper locking fastener	
12	SSJ00185	Lower locking fastener	
13	SSJ00182	Storage shell	
149	ZBC00002	Extractor	
15	WWJ00087	Pull-out steel wire (minor)	
16	WWJ00086	Pull-out steel wire (major)	
17	ZDL00057	PCBA power panel	with parts
18	DXC00045	Power cord,3wired cord&European plug	220V KTL,230V CE
	DXC00008	Power cord,3wired cord&Chinese plug	China
19	SSJ00180	Lower casing	
20	DCZ00019	Nine-hole aerial socket	with parts
2	CSB00049	Soldering iron handle	with parts
		 ⊕ SSJ00179 ② SSJ00183 ③ DKG00002 ④ ZDL00059 ⑤ SSJ00187 ⑥ WLS00070 ⑦ SSJ00181 ⑥ SXN00003 ⑨ BJZ00001 ⑩ ZLZ00008 ⑪ SSJ00184 ⑫ SSJ00185 ⑬ SSJ00182 ⑭ ZBC00002 ⑲ WWJ00087 ⑫ WWJ00087 ⑫ WWJ00087 ⑫ DXC00045 □ DXC00008 ⑫ SSJ00180 ⑫ DCZ00019 	③ SSJ00179 Upper casing ② SSJ00183 Handle ③ DKG00002 Power switch ④ ZDL00059 PCBA pane With the parts' ⑤ SSJ00187 Hinges ⑥ WLS00070 Tapping screw 1 ⑦ SSJ00181 Panel ⑥ SXN00003 Knob ⑨ BJZ00001 Clean sponge ⑩ ZLZ00008 Soldering iron station L015 ⑪ SSJ00184 Upper locking fastener ⑩ SSJ00185 Lower locking fastener ⑩ SSJ00182 Storage shell ⑩ ZBC00002 Extractor ⑩ WWJ00087 Pull-out steel wire (minor) ⑩ WWJ00086 Pull-out steel wire (major) ⑰ ZDL00057 PCBA power panel ⑩ DXC00045 Power cord,3wired cord&Chinese plug ⑰ SSJ00180 Lower casing ⑩ DCZ00019 Nine-hole aerial socket

Hot-jet De-soldering station series

Item NO.	Part No.	Part Name	Spec
21)	CSB00048	Portable Handhold(H91)	with parts
23	WGL00025	Heating element casing	
24)	CFR00108	Heating element A1625	110V 550W
25)	CFR00109	Heating element A1626	220V 550W
26	SSJ00147	High-temperature pullover	GP5
	SSJ00158	High-temperature pullover	GP6(separately purchased)
27	SSJ00148	Start switch button	
28	SSJ00119	CAL stopper	
29	SSJ00149	Rotary knob 1	ф9mm
30	SSJ00149	Rotary knob 2	φ9mm
31)	SMB00076	PVC panel	22*50mm
32	DDJ00007	DC turbo fan	40*40*20mm
33	SSJ00150	Upper casing	
34)	SSJ00151	Lower casing	φ 44*176mm
35)	ZDL00034	Printed circuit board	φ 44*176mm
33	SSJ00193	Rubber plug	ф 16.5
37	SSJ00001	Line set	Silicone
38	DXC00022	Handle-style spray gun line	Nine-core
39	WLS00060	Cross self tapping screw	PT2. 6*10mm
40	WLS00034	Cross machine screw	PM2*5mm
(41)	WLS00067	Cross self tapping screw	PA3*20mm

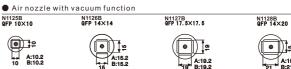
T Free-lead soldering tip series

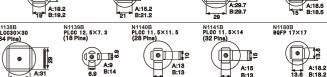


A CAUTION

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	\Box	()					N1131~N1141B	1 1		
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N1129B QFP 28×28

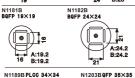
N1135B PL00 17, 5×17, 5 (44 Pine)

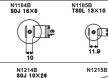
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N1259B SOP13X28

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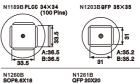
N1215B QFP 42.5×42.5

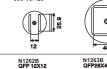
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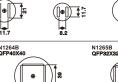






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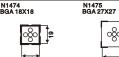


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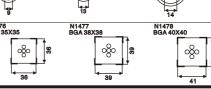


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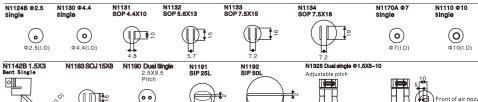




A:40.2 B:40.2







*We are entitle to restore the produce capability & technique parameter without noticing additional