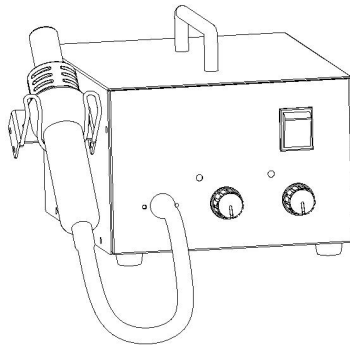




QUICK 990A+ SMD REWORK STATION

Instruction Manual



Thank you for purchasing our products. Please keep the instruction manual properly for future reference.

Contents

1. Safety Instructions.....	1
2. Overview.....	2
3. Product Characteristics.....	2
4. Product Specifications.....	3
5. Functional Descriptions.....	4
5.1. Dimensions.....	4
5.2. Part Descriptions.....	4
5.3. Indicator Description.....	6
6. User Instructions.....	7
6.1. Preparation before Use.....	7
6.2. Desoldering Process.....	7
6.3. Soldering Process.....	8
7. Replacing the Heater.....	8
7.1. Steps of Removing the Heater.....	8
7.2. Steps of Replacing the Heater.....	9
8. Selection of Nozzle.....	10

1.Safety Instructions

CAUTION

- During the installation and use of this product, all electrical safety regulations of the country and regions must be strictly observed.
- The power supply must be disconnected when disassembling the product. Do not operate with power on.
- If the product does not work properly, please contact the supplier or our company, and do not disassemble or change the product in any way. We are not responsible for any problems caused by unauthorized maintenance or modification.

WARNING

- Don't install the product in a place where the surface is easy to shake or be impacted, as it may damage the product.
- Don't place the product in places where it may be exposed to rain or moisture.
- The product should be used away from places where there is magnetic interference.
- Don't use in flammable and explosive environments.
- Pay attention to the air outlet and its surroundings. High temperature operation, be careful of burns.
- Power supply should be turned off during breaks or after work to avoid safety accidents.
- Please keep the air outlet unblocked and ensure there is no obstruction.
- Check and maintain the product regularly. Do not use the product when it is damaged, especially when the power cord or desoldering cord is damaged.
- Please unplug the power cord when the product is not used for a long time.

2.Overview

This product is suitable for desoldering of various components, such as SMD, SOP, SOG, etc. It can be used in many applications, such as heat shrinkage, drying, paint removal, adhesive removal, thawing, preheating, disinfection, glue soldering, etc. Adjustable air volume, suitable for small air volume and large air volume heating applications.

3.Product Characteristics

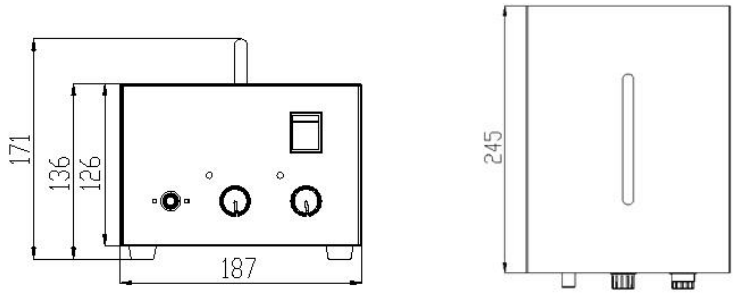
- Closed loop sensor, temperature controlled by micro-computer, large power, rapid heating, precise and stable temperature not affected by air volume.
- Non-contact soldering method can avoid the parts movement and thermal shock.
- Air volume and temperature can be widely adjusted, various of nozzles are available according to requirements.
- Air supply delay function can prolong the lifetime of heating element and hot air desoldering handle.

4.Product Specifications

Model	990A+
Air pump	Diaphragm pump
Power consumption	320W
Voltage	AC 110V/220V
Temperature range	150°C~500°C
Temperature stability	±2°C (Stationary air, no load)
Air volume	24L/min (Max)
Dimensions (L*W*H)	187*245*171mm
Weight	About 3.6kg

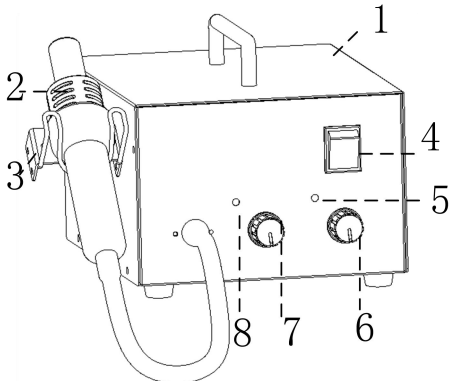
5.Functional Descriptions

5. 1. Dimensions



Unit: mm

5. 2. Part Descriptions



No.	Part Name
1	Main unit
2	Hot air desoldering handle
3	Handle holder
4	Power switch
5	Temperature indicator
6	Temperature adjusting knob
7	Air volume adjusting knob
8	Air volume indicator

5. 3. Indicator Description

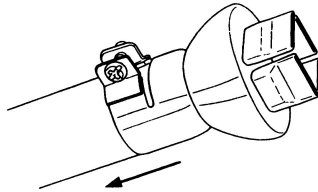
NO.	Indicator Description
5	<p>Temperature indicator:</p> <p>Always on-Heating state</p> <p>Flashing-Temperature control state</p> <p>OFF-Cooling state</p>
8	<p>Air volume indicator:</p> <p>1.After power on, the light will be on. If the heating function is not used for a long time, the light will be off.</p> <p>2. After power off, when the temperature of the desoldering drops below 100 °C, the light will be off.</p>

6. User Instructions

6. 1. Preparation before Use

- 1) Choose anti-static tweezer that matches the size of the chip.
- 2) Choose the nozzle that matches the size of IC components.
- 3) Loosen the screw on the nozzle.
- 4) Install the nozzle as shown in the figure.
- 5) Fasten the fixing screw properly.

Note: Install the nozzle while the heating tube and nozzle are cool.



6. 2. Desoldering Process

- 1) Plug the power cord into the power supply.
- 2) Turn on the unit. When the power is on, the heater begins to heat.
- 3) Adjust the airflow and temperature adjusting knob, wait the temperature to be stable. It is recommended to adjust the temperature around $300^{\circ}\text{C}\sim 350^{\circ}\text{C}$. For airflow if it is single nozzle, set the airflow knob at 1~5, for other nozzles, set it from 4~8.
- 4) Melt the solder. Hold the handle so that the nozzle is aimed at the part of the solder to be melted, and let the hot air flow melt the flux. The nozzle shall not touch the IC components.
- 5) Remove the IC components. When the solder melts, lift with tweezers and remove.
- 6) Turn off the unit. After it is turned off, the automatic air blowing function starts to work, and cold air is delivered through the

pipe to cool the heater and the handle. Therefore, the power plug must not be removed while cooling.

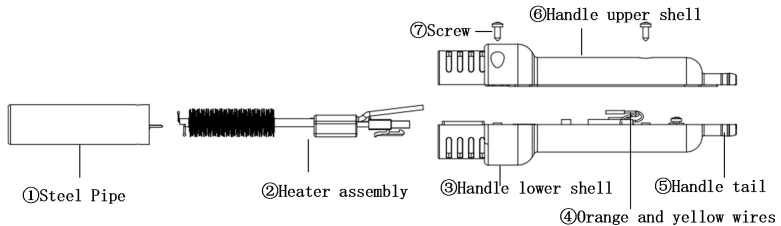
7) Remove residual flux. After the IC is removed, the solder residue can be removed by using a solder wick or a solder suction pump.

6. 3. Soldering Process

- 1) Apply the solder paste. Apply the proper quantity of solder paste and place the SMD on the circuit board.
- 2) Preheat the SMD
- 3) Soldering. Heat the lead frame evenly.
- 4) Cleaning. Remove the residual solder.

Note: Soldering with hot air is effective, but it may also cause problems such as bridging of solder balls. Before soldering, we recommend that you check the soldering conditions carefully.

7.Replacing the Heater



7. 1. Steps of Removing the Heater

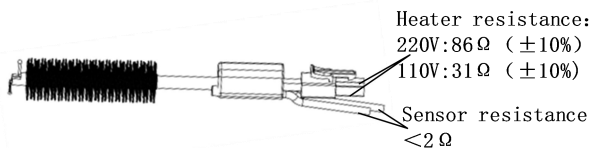
- 1) Remove the silicone tube of the ⑤Handle tail;
- 2) Unscrew the 3 screws of ⑥Handle upper shell;
- 3) Remove the ⑥Handle upper shell;

- 4) Remove the ④Orange and yellow wires that are inserted with the ②Heater assembly, and pull out the green grounding wire from the ①Steel pipe;
- 5) Pull out the plug of the ②Heater assembly, take out the heater from ①Steel pipe, and check whether the quartz tube is damaged.

⚠Note: All operating steps are performed with the power disconnected and the handle cooled.

7. 2. Steps of Replacing the Heater

- 1) Insert the plug of ②Heater assembly into the green socket, and fix it in the lower shell of the handle;
- 2) Insert the red wire on the ②Heating assembly into ④Orange and yellow wires in the handle, and insert the yellow wire on the heater into the ④Orange and yellow wires.
- 3) Sleeve the ①Steel pipe on the ②Heater assembly, and insert the grounding green wire on the steel pipe pin.
- 4) After the wires are arranged well, the ③⑥ convex point of the upper and lower shells of the handle shall be aligned with the steel pipe hole and closed, and the three ⑦Screws shall be locked.
- 5) Put the silicone hose on the end of ⑤Handle tail;
- 6) After replacing the heater, the following measurements are recommended:



⚠Note: After assembling the handle, check whether the seal of the handle is in good condition.

8. Selection of Nozzle

NOZZLES

NOTE

The size in Name/Specification indicates the size of IC package



A1125 QFP 10×10 (0.39×0.39) 	A1126 QFP 14×14 (0.55×0.55) 	A1127 QFP 17.5×17.5 (0.68×0.68) 	A1128 QFP 14×20 (0.55×0.78) 	A1129 QFP 28×28 (1.1×1.1) 	A1135 PLCC 17.5×17.5 (0.68×0.68) (44 Pins) 	A1136 PLCC 20×20 (0.78×0.78) (52 Pins) 	
A1137 PLCC 25×25 (0.98×0.98) (68 Pins) 	A1138 PLCC 30×30 (1.18×1.18) (84 Pins) 	A1139 PLCC 12.5×7.3 (0.49×0.29) (84 Pins) 	A1140 PLCC 11.5×11.5 (0.45×0.45) (28 Pins) 	A1141 PLCC 11.5×14 (0.45×0.55) (32 Pins) 	A1180 BQFP 17×17 (0.67×0.67) 	A1181 BQFP 19×19 (0.75×0.75) 	
A1182 BQFP 24×24 (0.94×0.94) 	A1184 SOJ 18×18 (0.71×0.71) 	A1185 TSOJ 13×10 (0.51×0.39) 	A1186 TSOJ 18×10 (0.71×0.39) 	A1187 SOP 18.5×8 (0.73×0.31) 	A1188 PLCC 9×9 (0.35×0.35) (20 Pins) 	A1214 SOJ 10×26 (0.39×1.02) 	
A1257 SOP 11×21 (0.43×0.83) 	A1258 SOP 7.6×12.7 (0.3×0.5) 	A1259 SOP 13×28 (0.51×1.1) 	A1260 SOP 8.6×18 (0.34×0.71) 	A1261 QFP 20×20 (0.78×0.78) 	A1262 QFP 12×12 (0.47×0.47) 	A1183 SOJ 15×8 (0.59×0.31) 	
A1264 QFP 40×40 (1.57×1.57) 	A1265 QFP 32×32 (1.26×1.26) 	A1263 QFP 28×40 (1.1×1.57) 	A1131 SOP 4.4×10 (0.17×0.39) 	A1132 SOP 5.6×13 (0.22×0.51) 	A1133 SOP 7.5×15 (0.3×0.59) 	A1134 SOP 7.5×18 (0.3×0.7) 	
A1189 PLCC 34×34 (1.34×1.34) (100 Pins) 	A1203 QFP 35×35 (1.38×1.38) 	A1215 QFP 42.5×42.5 (1.67×1.67) 	A1191 SIP 25L (0.98) 	A1192 SIP 50L (1.97) 	A1121 Single ø6.4 (0.25) 	A1300 Single ø8.4 (0.33) 	A1301 Single ø12.7 (0.5)
A1280 BGA24×24 (0.94×0.94) 	A1281 BGA26×26 (1.02×1.02) 	A1282 BGA31×31 (1.22×1.22) 	A1283 BGA38×38 (1.5×1.5) 	A1284 BGA41×41 (1.6×1.6) 	A1285 BGA44×44 (1.7×1.7) 	A1286 BGA15×15 (0.6×0.6) 	

Warranty Card

●The warranty period of this product is calculated from the date of Purchase. During the warranty period, if the product breaks down during normal use, show the original warranty card and enjoy free service in the authorized repair company(or our company).

Please keep the purchase certificate and this warranty card and show it before maintenance.

●During the warranty period, the following repairs need to be paid:

- a.Unable to offer valid warranty card or certificate;
- b.The purchase date, sales company and other items are not completely filled or the warranty card is altered;
- c.Damage caused by failure to follow the use methods and precautions in the manual;
- d.Damage caused by disassembly, repair and modification of products without authorization of the manufacturer;
- e.Replacement of vulnerable and consumable parts.

●All items of the warranty card shall be completely filled in by the agent or user to obtain a 12-month warranty period.

●Please keep this warranty card properly It will not be re-offered after.

QUICK INTELLIGENT EQUIPMENT
CO., LTD.

ADD: NO.11, FengXiang Road, Wujin
High-Tech Industrial Development
Zone, Jiangsu, China

TEL: 86-519-86225678

FAX: 86-519-86558599

POSTCODE: 213167

WEBSITE: www.quick-global.com

Warranty Card

Type: _____

Model No.: _____

Serial No.: _____

Delivery Date: _____

Warranty File Card

Type: _____

Model No.: _____

Serial No.: _____

Delivery Date: _____

Address : _____

Postcode: _____

Telephone: _____

Contact Person: _____

QUICK INTELLIGENT EQUIPMENT CO., LTD.

ADD: NO.11, FengXiang Road, Wujin
High-Tech Industrial Development Zone,
Jiangsu, China

TEL: 86-519-86225678

FAX: 86-519-86558599

POSTCODE: 213167

WEBSITE: www.quick-global.com

