

# **SMD REWORK STATION**

## **防静电扁平IC热风拆焊臺**

### **使用說明書**

#### **INSTRUCTION MANUAL**

Please Read This Instruction Manual Thoroughly  
Before Operating The SMD REWORK STATION

## 1. Production Summary

### 1-1 Specification

Input Voltage	220V/AC
Power Consumption	320W
Air Pump	diaphragm pump
Capacity	24L/min(max)
Hot Air Temperature	100°C-600°C

### 1-2 Function

- \*Closed loop of sensor Control Temperature, large Power in temperature raising, accuracy and constant in temperature, no effect caused by amount of air exhaust.
- \*Prevent static and leakage electric to damage the PCB.
- \*Unnecessary touch the PCB, so can avoid to move element and heating impaction.
- \*Extensively adjust air and temperature and select different nozzle, so it can fit most of SMD.
- \*Use inlet heating element, the type of heating element and nozzle is same as the international.
- \*Delay to blow air when turn the power switch off, it can protect the automatic.

### 1-3 Usefulness

- \*Fits most of SMD. Example for SOIC, CHIP, QFP, PLCC, BGA etc.
- \*Contract hose.

### 1-4 Accessories

FP Pick-up wire -----	1pc.
FP Pick-up -----	1pc.

## **2.Operating Instructions**

### **2-1 Before Operation**

- \*Select the FP Pick-up Wire that matches the size the IC. The FP Pick-up has an S wire(14mm) attached to it, but an L wire (30mm) may be necessary, depending on the size of the IC. Choose the appropriate wire for the IC.
- \*Select the Nozzle when both the Pipe and Nozzle are cool.
- \*Loosen the screw on the Nozzle.
- \*Attach the Nozzle as shown in the drawing.
- \*Fasten the screw properly.

### **2-2 QFP Desoldering**

#### **\*plug the power cord into the power supply.**

After connection, the automatic blowing function may start sending air through the pipe, but the Heating Element remains cool.

#### **\*Turn the Power switch on.**

The Power Switch may be turned on at any time while the automatic blowing function, is operating. Once the Power Switch is turned on, the Heating Element will begin to warm up.

#### **\*Adjust the Air Flow and Temperature Control Knobs.**

After adjusting the Air Flow and Temperature Control knob, wait for the temperature to stabilize for a short period of time. Refer to the distribution chart. For your reference, we recommend you to adjust the temperature around 300 to 350°C. As for Air Flow in case of single nozzle, set the knob 1-5, in another nozzle, set it from 4-7. When the working temperature is over 450°C, the knob of airflow control must be over 4 position.

**\*Melt the solder**

Hold the iron so that the Nozzle is located directly over, but not touching the IC, and allow the hot air to melt the solder, Be careful not to touch the leads of the IC with the Nozzle.

**\*Remove the IC.**

Once the solder has melted, remove the IC by lifting the FP Pick-up.

**\*Turn the Power switch off**

After the Power Switch is turned off, an automatic blowing function begins sending cool air through the pipe in order to cool both heating element and the handle. In case you don't use the unit for a long time, disconnect the plug.

**\*Remove any remaining solder**

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

Note: in case of SOP, PLCC desolder it by using tweezers, etc.

**2-3 QFP Soldering**

**\*Apply the solder paste.**

Apply the proper quantity of solder paste and install the SMD on the PWB.

**\*Preheat SMD.**

Refer to the photo to preheat SMD. (Fig.I)

### **\*Soldering**

Heat the lead frame evenly. (Fig.II)

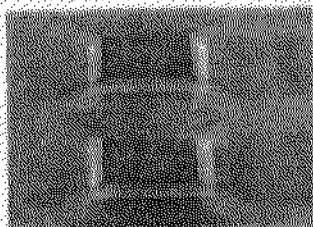
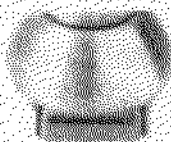


Fig. I

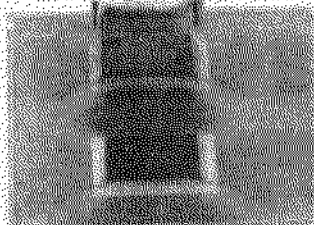
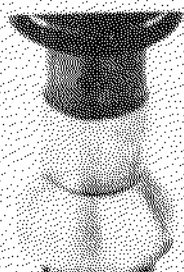


Fig. II

### **\*Washing**

When soldering is completed. Wash away the flux.

Note: While there is merits to solder by Hot air, it's also possible to cause the defects such as solder ballgs, solder bridges. We recommend you to examine the conditions of sodering sufficiently.

### **3.Precautions**

#### **\*Attaching the Nozzle**

Do not force the Nozzle or pull on the edge of the Nozzle by pliers. Also, do not retighten the screw too tightly.

### **\*Thermal Protector**

For safety, power is automatically shut off should the unit exceed a certain temperature. Once the temperature has dropped to a safety level, power is automatically turned on. Turn off the switch and cool the iron. After that, to continue operation, reduce the temperature setting or increase the air flow. Should the Thermal Protector be tripped and you do not wish to continue the operation or if you leave that place, be sure to turn the Power Switch off.

**\*When heater's LED is lighting, the heater is heating, when heater's LED extinguishes, stop heat.**

**\*After use, be sure to cool the unit.**

After turning off the power switch, the unit will automatically blow cool air through the pipe for a short period of time. Do not disconnect the plug during this cooling process.

**\*Never drop or sharply jolt the unit.**

The pipe contains quartz glass which can break if the unit is dropped or jolted sharply.

**\*Do not disassemble the pump.**

**\*Disconnect the plug when you don't use the unit for, a long time.**

When the power cord is connected into the power supply, the unit has a little flow of electricity, even the Power Switch is in off position. So then you don't use the unit for a long time, disconnect the plug.

\*When the temperature is over 350°C, when start it, the knob of airflow control should be at 38 position.

\*When the working temperature is over 450°C, the knob of air flow control must be over 4 position.

## 4.Replacing the Heating Element

### \*Remove the screws, slide the tube

Remove the 3 screws (Fig. I-1,2,3) which secure the Handle and slide the cord tube.

### \*Open the Handle.

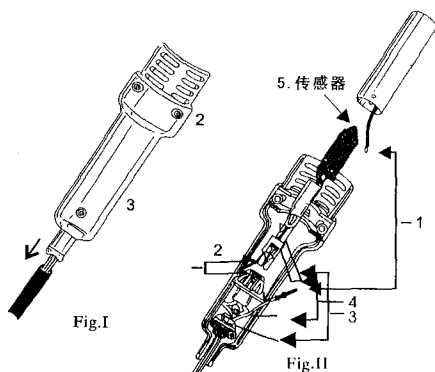
Disconnect the ground wire sleeve (Fig.II-1) and remove the pipe. In the pipe, the quartz glass and heat insulation is installed. Do not drop or miss it.

### \*Remove the Heating Element

Disconnect the terminal (Fig.II-1) and remove the Heating Element.

### \*Insert a new Heating Element.

Handle it with care. Never rub the Heating Element wire. Insert a new Heating Element and reconnect the terminal. The sensor has polar. It is necessary to distinguish its colors connect it with same color. Reconnect the ground wire after replacing the element. Assemble the Handle in the reverse order of disassembly. Insert the Handle's projection into the hole in the pipe.



## Specifications

Name	SMD REWORKSTAIDE
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The specifications ritten here may be subject to change without notice.

### • Station

Power Consumption	20W (When the power Switch is "OFF" 2w)
Pump	diaphragm pump
Capacity	241/min (max.)
Outer Dimensions	187(W)X135(H)X245(D)mm (W7.36X5.31X9.64in)
Weight	4kg(approx.)(8.81 lb)

### • Iron

Power Consumption	100,110,220-240V/300W 120V/300W
Hot Air Temperature	150~500°C (212~788° F ) (UseA1126)
Weight	196mm(7.71in)
Weight	120g(0.26lb)

### • Iron

No	Name
A1143B	110V/300W Heating Element
A1144B	110V/300W Heating Element
A1145B	120V/300W Heating Element
A1146B	220-240V/300W Heating Element
B1438	FP Pick-up(with(S)(L)Wire)
B1439	FP Pick-upWire(S)
B1440	FP Pick-upWire(L)







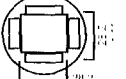





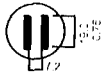

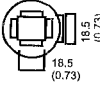
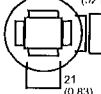

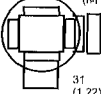





## • Note

The following parts has been modified to the new one. when you order the replacement parts, please inform the Part No. to distinguish from the former one.

LED Lamp(Air Flow/ Heater Lamp)	No.B1854
Locking Spacer(Securing the P.W.B.)	No.B1114
Air Nozzle	No.B1856

## • Option Parts mm(inch) \*The size in Nano/Specification indicates the size of IC package.

	<b>A1124</b> Single 	<b>A1125</b> QFP10×10 (0.39×0.39) 	<b>A1126</b> QFP14×14 (0.55×0.55) 	<b>A1127</b> QFP17.5×17.5 (0.69×0.69) 	<b>A1128</b> QFP14×20 (0.55×0.79) 	<b>A1129</b> QFP20×20(1.1×1.1) 
		<b>A1130</b> Single 	<b>A1131</b> SOP4.4×10 (0.17×0.39) 	<b>A1132</b> SOP5.0×13 (0.22×0.51) 	<b>A1133</b> SOP7.5×15 (0.3×0.60) 	<b>A1134</b> SOP7.5×10 (0.3×0.4) 
	<b>A1135</b> PLCC17.5×17.5(0.68×0.68) (44 Pins) 	<b>A1136</b> PLCC20×20(0.78×0.78) (52 Pins) 	<b>A1137</b> PLCC25×25(0.98×0.98) (68 Pins) 	<b>A1138</b> PLCC30×30(1.18×1.18) (94 Pins) 		
	<b>A1139</b> PLCC7.3×12.5(0.29×0.49) (18 Pins) 	<b>A1140</b> PLCC11.5×11.5(0.45×0.45) (28 Pins) 	<b>A1141</b> PLCC11.5×14(0.45×0.55) (32 Pins) 	<b>A1142</b> Bent Single 1.5×3(0.06×0.12) 