

ESD
SAFE

SS-601

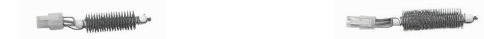
更換發熱元件

注意：更換發熱元件前，一定要先拔除電源插頭，確認在沒有電源情況下操作，以免觸電危險。

- 鬆開螺絲，移出電線管。
鬆開拴緊手柄的3枚螺絲，移出電線管。
- 鬆開手柄
鬆開接地電線護套，取出管件，管內裝置有石英玻璃和熱絕緣體。
勿掉落或重振，以免損壞。
- 取出發熱元件
拔開接線端，取出發熱元件。
- 插入新發熱元件
小心處理，切勿磨擦發熱元件電線，插入新發熱元件，接上接線端。
- 依拆開時的相反程式回裝手柄，將後手柄凸起部分套入管件孔徑。

選購配件：

- 95S-601A-H 發熱體 (AC 110V)
- 95S-601B-H 發熱體 (AC 220V)



Thank you for purchasing the SS-601 Hot Air SMD Rework Tool. Before using the SS-601 for the first time, please read the following instructions.

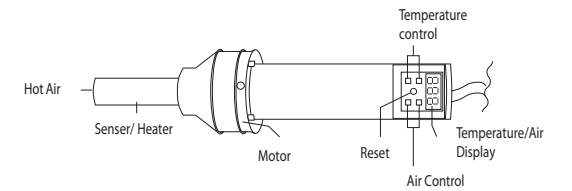
Model no.	SS-601A	SS-601B
Spec.	Description	Description
Input Voltage(V)	AC100~110V/50~60Hz	AC200~220V/50~60Hz
Consumption(W)	5~450W	5~560W
Current(A)	0.07~4.6A	0.037~2.74A
High Voltage Test 1mA/1sec	1500VAC	1500VAC
Insulation Resistance(Ω)	>1MΩ	>1MΩ
Temperature(°C)	100~480°C(212~896°F)±5%	100~480°C(212~896°F)±5%
Handle Temperature(MAX)(°C)	< 50°C	< 50°C
Heater	Voltage(V)	AC110V
	Consumption(W)	600W/AC110V
Resistance(Ω)	29±2Ω	90±5Ω
	Resistance(Ω)	29±2Ω
Package contents	Heat Gun w/Rock Nozzle x 3	Heat Gun w/Rock Nozzle x 3
	Users manual	Users manual
Weight(g)	920g (includes, color box)	920g (includes, color box)

FEATURES AND FUNCTION

- CPU control to precisely control both temperature and air flow to tight specifications.
- Fully digital settings and visual display for easy use and control.
- Temperature adjustable from 100°C to 480°C
- space saving design. Built-in fan for air control eliminates need for separate air pump.
- T three different nozzles sizes included.
- Can be used for QFP/SOP and PLCC SEM ICs.

MAINTENANCE

1. Unplug the unit.
2. Unscrew the three screws connecting the heating barrel to the handle.
3. Remove the cover.
4. Remove the heating unit by first pushing in the plastic clip and then pulling out the plastic plug.
5. Insert the plug for the new heater into the handle. Replace cover and retighten the three screws.



PRECAUTIONS

1. Caution-High Temperature Operation
Do not use the unit near ignitable gases, paper or other inflammable materials. Both the nozzle and the heated air are extremely hot and can cause painful burns, never touch the heater pipe or allow the heated air to blow against your skin.
2. After use, be sure to allow the unit to cool down.
3. Never drop or sharply jolt the unit.
4. White smoke may occasionally be emitted. This is temporary and caused by very small pieces of dirt on the unit.
5. Do not disassemble the unit.
6. Unplug the SS-601 when not in use.

OPERATING INSTRUCTIONS FOR DESOLDERING

1. Place the FP Pick-up under the IC lead. If the width of the IC does not match the size of the FP Pick-up, adjust the width of the wire by suppressing the wire.
 2. Melt the solder. Hold the unit so that the nozzle is located directly over but not touching the IC, and allow the hot air to melt the solder. It is best to slowly, but continuously, move the nozzle over the top of the IC so that no one area becomes too hot.
 3. Once the solder has melted, remove the IC by lifting the FP pick-up.
 4. After desoldering, turn the air volume up and the temperature to the minimum. Blow for a few minutes to cool down and protect the elements.
 5. Turn the power switch OFF.
 6. After removing the IC, remove any remaining solder with the wick of a desoldering tool.
- Note: In case of SOP and PLCC, desolder it by using tweezers etc.

風嘴 mm(inch)

QFP	95S-601-A Single 14x14 (0.55x0.55) <th>95S-601-B GPF 17.5x17.5 (0.68x0.68) <th>95S-601-C GPF 17.5x17.5 (0.68x0.68) </th></th>	95S-601-B GPF 17.5x17.5 (0.68x0.68) <th>95S-601-C GPF 17.5x17.5 (0.68x0.68) </th>	95S-601-C GPF 17.5x17.5 (0.68x0.68)		
	φ2.5(0.10)	φ2.5(0.10)	φ2.5(0.10)		
	15.2 (0.60)	15.2 (0.60)	15.2 (0.60)		
	10.2 (0.40)	21.2 (0.83)	28.2 (1.11)		
	10.2 (0.40)	21.2 (0.83)	28.2 (1.11)		
SOP	95S-601-G Single 4.4x10 (0.17x0.39)	95S-601-H SOP 5.6x13 (0.22x0.51)	95S-601-I SOP 7.5x15 (0.3x0.59)	95S-601-J SOP 7.5x15 (0.3x0.59)	95S-601-K SOP 7.5x18 (0.3x0.7)
	φ4.4(0.17)	φ4.8 (0.19)	φ5.7 (0.22)	φ7.2 (0.28)	φ7.2 (0.28)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)
PLCC	95S-601-L PLCC 17.5x17.5(0.68x0.68) (44Pins)	95S-601-M PLCC 20x20(0.78x0.78) (52Pins)	95S-601-N PLCC 25x25(0.98x0.98) (68Pins)	95S-601-O PLCC 30x30(1.18x1.18) (84Pins)	95S-601-P PLCC 30x30(1.18x1.18) (84Pins)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)

除錫步驟

1. 電源插頭插入電源插座。
2. 按開電源開關
馬達開始轉動並產生自然、柔和的旋轉風，發熱元件開始發熱。
調整風量和溫度控制鈕，稍等一會兒，待溫度穩定下來。
我們建議您，可調整溫度在攝氏300度至350之間；在風量方面，如果是單噴咀，風量控制鈕可設在15-50檔；其他噴咀可設定在50-99檔；使用單風嘴時，溫度控制鈕不可超過100°C。
將拔起器置於積體電路塊底下，如果積體電路寬度與拔起器鋼線尺寸不配合，可適度擠壓鋼線寬度，以配合之。
3. 溶化焊錫
手持折焊熱吹槍，使風嘴對準所要溶化焊錫部分，讓噴出熱氣溶化焊錫。風嘴不可碰觸積體電路塊或引線，避免損壞。
4. 移開積體電路塊
焊錫溶化時，提起拔起器，移開積體電路塊。
5. 工作完畢，把風量調到最大，溫度調到最小，送冷風若干分鐘，冷卻發熱元件，有效保護發熱元件。
6. 清除殘餘焊錫
移開積體電路塊後，可用吸錫線或吸錫器，清除殘餘焊錫。
注意：如果是SOP、PLCC、可用鑷子夾起積體電路塊。

焊接步驟

1. 塗抹適量錫膏
塗抹適量錫膏，將SMD放在電路板上
注意：錫膏或錫膏的品質，將直接影響焊接品質，我們建議你，使用較高品質的錫膏。
2. 預熱SMD
3. 焊接
向積體電路塊引線框，平均噴出熱氣。
4. 清理
焊接完畢，清除殘餘焊錫。
注意：用熱氣進行焊接是快速有效的，但也導致空焊、斷路或焊接短路...等問題，我們建議您焊接後，應再次仔細檢查焊接情況。

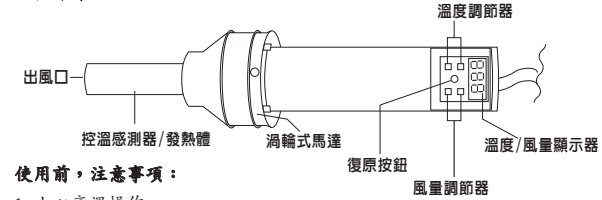
SS-601A/B 數位控溫拆焊熱吹槍

產品特點：

- 採用CPU(中央處理器)控制電路
- 全數位100~480°C(212~896°F)溫度顯示，無論設定溫度或顯示操作溫度，均以數位顯示，操作方便，一目了然
- 內置精密溫度感測器，不論風量大小、溫度自動調整，保持絕對穩定
- 全數位風量顯示，配合獨特渦輪馬達，出風自然柔和
- 全新單手直式設計，符合SOIC、CHIP、QFP、PLCC、BGA和 SMD零件拆焊習慣，配備3種不同熱風嘴，體積輕巧，價格經濟
- 特別適合手機維修、熱縮套管、塑膠管或塑膠製品，烘烤成型使用

型號	SS-601A	SS-601B
內容	規格尺寸	規格尺寸
輸入電壓(V)	AC100~AC110V/50~60Hz	AC200~220V/50~60Hz
消耗功率(W)	5~450W	5~560W
電流(A)	0.07~4.6A	0.037~2.74A
高壓1mA/1sec	1500VAC	1500VAC
絕緣電阻(Ω)	>1MΩ	>1MΩ
熱風溫度(°C)	100~480°C(212~896°F)±5%	100~480°C(212~896°F)±5%
手柄最高溫度(°C)	< 50°C	< 50°C
發熱體電壓(V)	AC110V(端子插卡式)	AC220V(端子插卡式)
發熱體功率(W)	600W/AC110V	600W/AC220V
內阻(Ω)	29±2Ω	90±5Ω
標準配件	熱風嘴3個 塑膠筒易架1個	熱風嘴3個 塑膠筒易架1個
重量(g)	920g (含標準配件、彩盒)	920g (含標準配件、彩盒)

面板操作：



使用前，注意事項：

1. 小心高溫操作
切勿在近易燃氣體、紙張或其他易燃物品附近使用本拆焊熱吹槍。
噴咀和熱氣都十分炙熱，能夠傷人體。
切勿觸摸發熱管，或以熱氣直噴人體。
起動初時，可能因有水蒸氣會冒白煙，但過一會兒應就會恢復正常。
注意：如果過了很久仍有白煙請檢查是否有異物侵入
2. 使用後，切勿冷卻機身
使用完畢，應將風量調到最大，將溫度調到最小，持續送風若干分鐘冷卻發熱元件，有效保護發熱元件。
3. 切勿掉落或重振
發熱管含有石英玻璃，如果掉落或重振，會使玻璃破碎。
4. 勿拆開機身
5. 長久不使用，應拔出電源插頭
當電話頭插電源時，即使是關上電源開關，也會有少量電流輸入，所以如果您長久不使用，須拔出電源插頭。
7. 剛開始使用時，如果無法確定所需風量和溫度，請先將溫度調到最低，並從先完成風量設定，再逐漸調整升高溫度，到適當為止。
8. 為適合超細小的元件拆焊，且不會因風量過大，而使零件位置控制不易，或將零件吹落於地，本拆焊熱吹槍，風量大小調整範圍較廣
注意：風量調至1-3檔時，風量非常小，此時應注意溫度的設置和選擇，切勿過高。

OPERATING INSTRUCTIONS

1. Select a nozzle.
2. Loosen the screw on the nozzle. Slip the nozzle over the heater. Do not force.
3. Retighten the screw. Do not over tighten.
4. Plug the power cord into the power supply.
5. Turn the power switch on. The display will initially show the current temperature.
6. First adjust the air flow. Press the "up" AIR flow arrow and adjust to the desired level. Settings from 15-99 are available. When the air flow setting is being displayed, the digital display will show "F" and the air flow setting.
7. When setting the air flow rate consider that high air flow settings may blow small ICs off the board while low air flow settings should only be used with lower temperature settings to avoid overheating.
8. Next adjust the temperature setting by pressing the "up" HEATER arrow. Once you have set the desired temperature, wait 3 seconds and the digital display will show the actual unit temperature. Wait for the unit to reach the temperature set point.
9. When setting the temperature consider that high temperatures can require higher air flow rates.
10. To reset all settings, press the RESET button.

OPERATING INSTRUCTIONS FOR SOLDERING

1. Apply the proper quantity of solder paste to the PCB.
2. Install the SMD on the PCB.
3. Heat the lead frame evenly.
4. When the soldering is completed, wash away the flux.
5. Inspect soldered areas carefully. While there are merits to soldering by hot air, it's also possible to cause defects such as solder balls and solder bridges. We recommend that you to carefully examine soldered areas after soldering.

Option Parts : mm (inch)

- 95S-601A-H Heater For AC 110V
- 95S-601B-H Heater For AC 220V

QFP	95S-601-A Single 14x14 (0.55x0.55) <th>95S-601-B GPF 17.5x17.5 (0.68x0.68) <th>95S-601-C GPF 17.5x17.5 (0.68x0.68) </th></th>	95S-601-B GPF 17.5x17.5 (0.68x0.68) <th>95S-601-C GPF 17.5x17.5 (0.68x0.68) </th>	95S-601-C GPF 17.5x17.5 (0.68x0.68)		
	φ2.5(0.10)	φ2.5(0.10)	φ2.5(0.10)		
	15.2 (0.60)	15.2 (0.60)	15.2 (0.60)		
	10.2 (0.40)	21.2 (0.83)	28.2 (1.11)		
	10.2 (0.40)	21.2 (0.83)	28.2 (1.11)		
SOP	95S-601-G Single 4.4x10 (0.17x0.39)	95S-601-H SOP 5.6x13 (0.22x0.51)	95S-601-I SOP 7.5x15 (0.3x0.59)	95S-601-J SOP 7.5x15 (0.3x0.59)	95S-601-K SOP 7.5x18 (0.3x0.7)
	φ4.4(0.17)	φ4.8 (0.19)	φ5.7 (0.22)	φ7.2 (0.28)	φ7.2 (0.28)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)
PLCC	95S-601-L PLCC 17.5x17.5(0.68x0.68) (44Pins)	95S-601-M PLCC 20x20(0.78x0.78) (52Pins)	95S-601-N PLCC 25x25(0.98x0.98) (68Pins)	95S-601-O PLCC 30x30(1.18x1.18) (84Pins)	95S-601-P PLCC 30x30(1.18x1.18) (84Pins)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)	18.5 (0.73)
	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)	26 (1.02)