

Pro'sKit®

SS-331 LCD Desoldering Station



User's Manual

1st Edition,

©2016 Copyright by Prokit's Industries Co., Ltd.

Description

SS-331 designed for lead free desoldering especially. The quick heating and strong power are for convenient and clear soldering / desoldering all types of DIP components.

Reasonable structure, single hand operation and strong absorbing power can be easy removal of the residual solder from the one-sided or two sided of the PCB.

This tool is used in the fields of electronic research, teaching and production, especially in the repairing and desoldering on the electronic appliances and communication equipments.

1. Control Unit

The desoldering iron gun is controlled automatically by the micro-processor. The digital control electronics and high-quality sensor and heat exchange system guarantee precise temperature control at the soldering tip. The highest degree of temperature precision and optimal dynamic thermal behavior under load conditions is obtained by the quick and accurate recording of the measured values in a closed control circuit, and this design is especially for the lead-free production techniques.

2. Desoldering Iron gun (5SS-331N-DG)

Desoldering iron gun with a power of 70W and a wide spectrum of soldering tips can be used anywhere in the electronics field.

The high power and gun type design make this iron gun suitable for fine desoldering work. The heating element is made of ceramic and the sensor on the desoldering tip can control the desoldering temperature quickly and accurately.

Technical Specification

| | | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Model No. | SS-331B | SS-331EU |
| Voltage | 100~240V AC/50Hz | 100-240V AC/50-60Hz |
| Power Consumption | 90W | |
| Temperature | 160°C ~ 480°C | |
| Vacuum Pressure | >600mm Hg | |
| Heating Element | Ceramic Heater | |
| Accessories | Spare tip x 3 (Ø 1.2(on the gun)Ø1.0/ Ø 1.5mm) Cleaning tool x 3 (Ø0.7/Ø0.9/Ø 1.2mm)Filter sponge x 4 (φ20.8x1 +φ16.8x3) | |
| Certificate | CE, RoHS | cTUVus, RoHS |
| Station Size (mm) | 172 x 135 x 190 | |
| Weight (kgs) | 1.6 | |

Operating Instruction

1. Place the desoldering iron gun in the holder separately. Then connect the plug to the receptacle on the station and turn clockwise to tighten the plug nut. Check that the power supply is corresponding to the specification on the type plate and the power switch is on the "OFF" position. Connect the control unit to the power supply and switch on the power. Then a self-test is carried out in which all display elements are switched on briefly. The electronic system then switches on automatically to the set temperature and displays this value.
2. The display and temperature setting



- ①. Shows the actual temperature of the desoldering tip.
- ②. Shows the setting temperature: Pressing the "UP" or "DOWN" button can switch the digital display to the set point display. The set-point can be changed for $\pm 1^{\circ}\text{C}$ by tapping the "UP" or "DOWN" button. Pressing the button will change the set-point quickly. The digital display will return automatically to the actual value and the iron will reach to the setting temperature quickly.
- ③. $^{\circ}\text{C}/^{\circ}\text{F}$ display: Switching the temperature display from $^{\circ}\text{C}$ to $^{\circ}\text{F}$ by pressing the "*" button and then the electronic system will display the actual temperature ① and setting temperature ② in $^{\circ}\text{F}$, and vice versa.
- ④. When the actual temperature on the desoldering tip is less than the set-point, "HEAT ON" will display and make the desoldering tip heating up.
- ⑤. When the absolute offset is more than $\pm 10^{\circ}\text{C}$ between the actual temperature and the set-point on the desoldering tip or the nozzle, "WAIT" will display. It means that the temperature electronic control system is not in the stable situation, we should wait a moment to let the "WAIT" disappear.
- ⑥. When "-----" & "ERROR" display, there may be a trouble on the system, or the desoldering iron gun is not connected to the control system

correctly.

Safety Instruction

1. The manufacturer assumes no liability for uses other than those described in the operating instructions or for unauthorized alterations.
2. The operating instructions and cautions should be read carefully and kept in an easily visible location in the vicinity of the control system. Non-observance of the cautions will result in accidents, injury or risks to health.

Caution

1. The power cord only can be inserted in approved power sockets or adapters.
2. High Temperature

The temperature of the desoldering tip will reach as high as around 400°C (752°F) when the power switch is on. Since mishandling may lead to burns and fire, be sure to comply with the following precautions:

- A. Do not touch metallic parts near the desoldering tip/ nozzle.
 - B. Do not use this system near the flammable items.
 - C. Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
 - D. Turn off the power switch while taking breaks and when finishing using.
 - E. Before replacing parts or storing the system, turn off the power and let it cool down to the room temperature.
 - F. Warning: this tool must be placed on its stand when not in use.
 - G. A fire may result if the appliance is not used with care, therefore:
 - a) Be careful when using the appliance in places where there is combustible material.
 - b) Do not apply to the same place for a long time.
 - c) Do not use in presence of an explosive atmosphere.
 - d) Be aware heat may be conducted to combustible materials that out of sight.
 - e) Place the appliance on its stand after use and allow it to cool down before storage.
 - f) Do not leave the appliance unattended when it is switched on.
3. Take care of your tools
Do not use the tools for any applications other than desoldering.
Do not rap the iron against the work bench or otherwise subject the iron to severe shocks.
Do not file the desoldering tip to remove the oxide, please wipe the tip on the cleaning sponge.
Use only accessories or attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.
Please turn off the power before connecting or disconnecting the desoldering iron gun.

4. Maintenance
 - 4.1 Before further use, safety devices or slightly damaged parts must be carefully checked for error-free and intended operation.
 - 4.2 Inspect moving parts for error-free operation and that they don't bind, or whether any parts are damaged.
 - 4.3 Damaged safety devices and parts must be repaired or replaced by a qualified technician, so long as nothing else is indicated in the operation manual.
 - 4.4 Use only accessories or attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.
5. Keep children at a distance

Warning: this appliance is not intended for use by young children and infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.

Warning: Young children should be supervised to ensure that they do not play with the appliance.

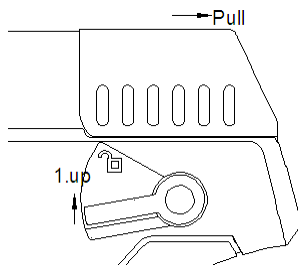
Unused desoldering station should be stored in a dry location which is out of the reach of children. Switch off all unused desoldering station.
6. Protect yourself against electrical shocks

Avoid touching grounded parts with your body, e.g. pipes, heating radiators and so on. The grip of antistatic designed desoldering tool is conductive.
7. Work environment

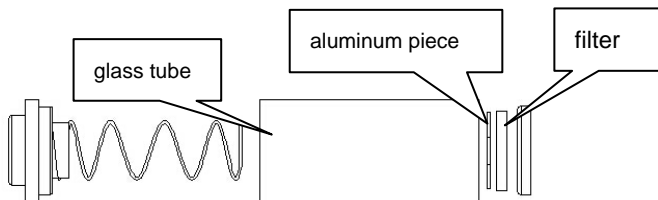
Do not use the desoldering station in a moist or wet environment. The desoldering iron gun should be placed on the holder after finished using.
8. Observe the valid safety regulations at your work place.

Remove solder waste:

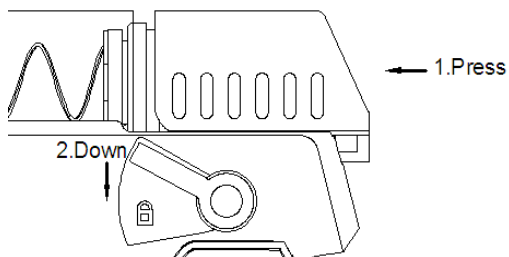
1. Pull the back holder, then the knob will bullet up and become unlocked automatically .



2. Take the spring out from the glass tube ,then remove the solder waste



3. Put the spring back to glass tube, then put glass tube back to position. Press the back holder , then the knob will bullet down and become locked automatically .



Pro'sKit® SS-331 數顯吸焊台



概述

SS-331 特別為無鉛吸焊而設計。快速升溫和大功率的特點使其可以方便快速的焊接/拆焊所有類型的 DIP 元器件。

合理的結構，單手操作和強大的吸焊功率能夠輕鬆的從 PCB 一面或兩面除去殘餘錫渣。

目前已廣泛的應用於電子科研，教學以及生產等單位，特別是家電維修和通訊器材維修人員所不可缺少的首選專用工具。

1. 控制單元

吸焊槍由微處理器自動控制。數位控制裝置和高品質的感測器及加熱交換系統，保證對吸焊烙鐵頭的溫度進行精確的控制。通過快速準確的記錄閉合控制回路測量，可以獲得較高的溫度精度和帶負載狀況下最佳熱量轉遞性能，特別適合用於無鉛制程工藝。

2. 吸焊槍 (5SS-331N-DG)

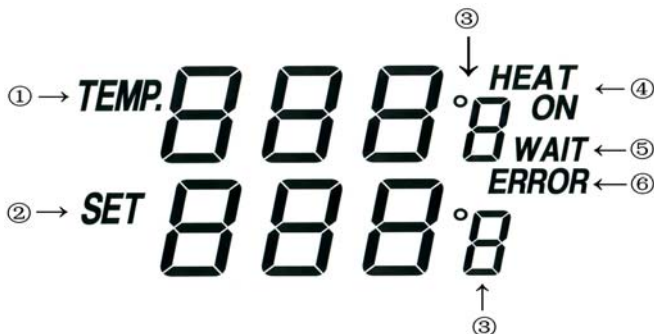
吸焊槍的功率為 70W，可以配各種尺寸的吸焊烙鐵頭，廣泛應用於電子領域。大功率和細長外形設計適合狹窄空間內除去殘餘錫渣操作，發熱芯採用陶瓷發熱材料製作，頂端溫度感測器特點在於能夠快速並準確的控制吸焊烙鐵頭溫度。

技術規範

| | | |
|--------|----------------------------------------------------------------------------------------------------------|--------------------|
| 型號 | SS-331B | SS-331E |
| 電壓 | 100~240V AC/50Hz | 100-240VAC/50-60Hz |
| 消耗功率 | 90W | |
| 溫度 | 160°C ~ 480°C | |
| 真空吸力 | >600mm Hg | |
| 發熱原件 | 陶磁發熱芯 | |
| 配件 | 吸嘴 x 3(Ø1.2(裝在吸槍上)Ø1.0/ Ø 1.5mm) 通針 x 3(Ø 0.7/ Ø 0.9/ Ø 1.2mm) 過濾棉 x 4 (Ø 20.8mm x1 + Ø 16.8mm x3) | |
| 認證 | CE, RoHS | cTUVus, RoHS |
| 尺寸(mm) | 172 x 135 x 190 | |
| 重量(kg) | 1.6 | |

操作說明：

- 將吸焊槍放置在支架上。然後將插頭插入插座順時針方向鎖緊螺母。檢查供電電源符合本產品的規格並確認總電源開關處於 **OFF** 的位置。接通控制系統的電源並打開電源開關。系統進行自檢，所有的液晶顯示都暫時被點亮。電子系統自動打開並迅速達到設定的溫度值。
- 顯示幕和溫度設置：



數位顯示說明：

- 顯示吸焊烙鐵頭的實際溫度。
- 顯示的是設定溫度，通過按“UP”或“DOWN”鍵來改變設定值。輕壓單下“UP”或“DOWN”鍵設定值將以±1°C變化，持續按下“UP”或“DOWN”鍵設定值將會快速改變。改變設定值後，電子系統自動工

作，顯示溫度會迅速到達設定值。

- ③. °C或°F溫度，通過按“*”按鈕切換攝氏或華氏溫度，切換後電子系統會自動顯示的攝氏或華氏實際溫度①和設定溫度②數值。
- ④. 當吸焊烙鐵頭實際溫度小於設定溫度時顯示“HEAT ON”表示電子系統對烙鐵正在加熱。
- ⑤. 當吸焊烙鐵頭實際溫度與設定溫度的絕對偏差大於±10°C時顯示“WAIT”，表示電子控溫系統還沒到達穩定狀態，請稍做等待，待“WAIT”不顯示時即可正常使用了。
- ⑥. 顯示“---”及 ERROR 閃爍則表示系統有故障，或者是吸焊槍沒有正確連接到控制系統。

3 安全操作說明

3.1 製造商對於超出操作說明中所到的其他使用或未經授權的更改，不負任何責任。

3.2 應仔細閱讀操作說明及警告並將其放置在控制系統附近，如不遵守這些警告，將有可能發生意外事故，人體傷害或健康傷害。

4 警告及注意事項

4.1 電源線只能插入經認證過的電源插座或適配器中。

4.2 小心高溫:在開機狀態下,吸焊烙鐵頭的溫度可以達到大約 400°C(752°F)左右,由於不正確的操作可能會造成燒傷或引起火災,故應確保遵守以下預防措施:

- 不要讓金屬部件接觸到吸焊烙鐵頭;
- 不要在易燃物品附近使用該系統;
- 告知工作區域中的其他人員此設備會達到非常高的溫度應注意識別其潛在的危險性;
- 在休息及使用完後應關閉總電源
- 在更換零件或儲存前,應關閉總電源並讓其冷卻到室溫
- **警告:不用時一定要將此工具放置在特定的支架上。**
- 如使用不當可能會引起火災,因此
 - 在有易燃物品的場所使用該設備一定要小心;
 - 不要長時間在同一位置使用該設備;
 - 不要在有爆炸性氣體的場所使用;
 - 要知道熱量有可能會引燃不在視線範圍內的可燃物質;
 - 使用完畢後要將器具放置在特定的支架上,且要在冷卻後方可收藏起來;
 - 離開時必須要關閉電源開關。

4.3 愛護工具

- 不要將此設備用於吸錫以外的其他操作。
- 不要在工作臺上敲打吸焊槍或其他嚴重的撞擊。
- 不要銼吸焊烙鐵頭上的氧化層,請使用浸水的清潔棉擦除氧化層。
- 吸焊烙鐵頭如被異物堵塞,請利用所配合適規格通針在吸焊槍加熱狀態下進行清理。
- 請不要長時間設置較高的溫度,容易造成吸焊烙鐵頭氧化加速老

化。

- 確保使用操作說明上列明的附件或配件，使用其他的工具或其他配件使本系統損壞或會有受傷的危險。
- 在接通或斷開吸焊槍前應先關閉電源。

4.4 工具保養

在使用前，應仔細檢查安全裝置或有輕微損害的零件無故障及在指定操作狀態。

4.4.1 檢查活動的零件無故障操作，並且沒有繞線及零件損壞。

4.4.2 已損壞的安全設備及零件都應由有資格的专业人員進行維修或更換。

4.4.3 只使用操作說明中列出的配件，如果使用其他工具或配件有可能對操作人員造成傷害。

4.4.4 放置在兒童接觸不到的地方

警告：老人和兒童必須在監護人在場確保可安全使用的情況下，方可使用該設備。

警告：應確保兒童在沒有監護的情況下，無法接觸到該設備。

4.4.5 不用時應存放在乾燥的，兒童接觸不到的地方。

4.5 避免遭受電擊

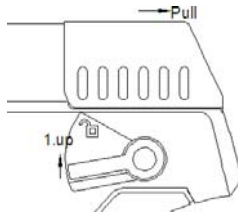
避免用身體接觸接地零件，如：吸焊槍管等。

4.6 不要在潮濕的環境中使用焊接工具。吸焊槍用完后要放回到支架上。

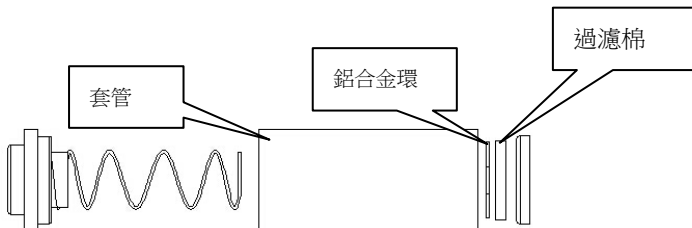
4.7 遵守工作場所中的安全操作規定。

5 移除焊接錫料:

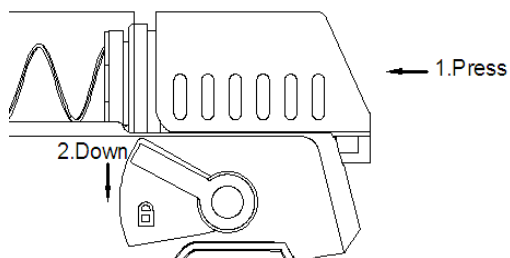
5.1 將後蓋往後拉，旋鈕將上移並自動解除鎖定。



5.2 將彈簧自套管內取出，移除焊接錫料。



- 5.3 將彈簧放回套管內，將套管裝回原位。
將後蓋往前推，旋鈕將會往下壓並自動鎖定。



Pro'sKit[®]

寶工實業股份有限公司
PROKIT'S INDUSTRIES CO., LTD.



©2016Prokit's Industries Co., LTD. All rights reserved 201601(C)