

Pro'sKit®
SS-331
Desoldering
Station



ProKit SS-331 Desoldering Station User Manual

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Pro'sKit®

ProKit SS-331 Desoldering Station



Product Description

The SS-331 LCD Desoldering Station features a desoldering iron gun with a power of 70W and a wide spectrum of soldering tips suitable for electronics work. The high power and gun-type design make it ideal for fine desoldering tasks. The heating element is ceramic, and the sensor on the desoldering tip ensures quick and accurate temperature control.

Operating Instructions

1. The display and temperature setting:

- Shows the actual temperature of the desoldering tip.
- Shows the setting temperature: Press the UP or DOWN buttons correctly.

Safety Instructions

- The manufacturer assumes no liability for unauthorized uses or alterations.
- Operating instructions and cautions must be read carefully and kept visible to prevent accidents or health risks.

Caution

1. The power cord should only be used with approved power sockets or adapters.
2. High Temperature precautions:
 - Avoid touching metallic parts near the desoldering tip.
 - Avoid using near-flammable items.
 - Turn off the power switch during breaks or after use.
 - Place the tool on its stand when not in use to prevent accidents.

Description

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

- Reasonable structure, single-hand operation, and strong absorbing power can easily remove the residual solder from the one-sided or two-sided PCB. This tool is used in the fields of electronic research, teaching, and production, especially in the repairing and desoldering of electronic appliances and communication equipment.

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 lead-free production techniques.

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

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

The higher and gun-type iron make this unsuitable 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 (Æ 1.2(on the gun)/Æ1.0/ Æ 1.5mm) Cleaning tool x 3 (Æ 0.7/Æ0.9/Æ 1.2mm)Filter sponge x 4 (φ20.8×1 +φ16.8×3)	
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 corresponds to the specification on the type plate and that the power switch is in 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 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 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 temperature① and setting temperature② 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 heat up.
5. When the absolute offset is more than $\pm 10^{\circ}\text{C}$ between the ethereal 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 a stable situation, we should wait a moment to let the “WAIT” disappear.
6. When “-----” & “ERROR” are displayed, there may be trouble in 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 soldering 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:

- Do not touch metallic parts near the desoldering tip/ nozzle.
- Do not use this system near the flammable items.
- Advise other people in the work area that the unit can reach a very high temperature and should be

considered potentially dangerous.

- Turn off the power switch while asking aks and then ffinishusing it.
- Before replacing parts or storing the system, turn off the power and let it cool down to room temperature.
- Warning: this tool must be placed on its stand when not in use.
- A fire may result if the appliance is not used with care, therefore:
 - Be careful in using the appappliance'sn laces where there is cacombustibleaterial.
 - Do not apply to the same place for a long time.
 - Do not use it in the presence of an explosive atmosphere.
 - Be aware heat may be conducted to combustible materials that are out of sight.
 - Place the appliance on its stand after use and allow it to cool down before storage.
 - 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 workbench otherwise subject the iron to severe shocks.
- Do not fill the desoldering tip to remove the oxide, please wipe the tip on the cleaning sponging.
- Using only accessories or attachment hatches listed in the operatimanuals of offer tools and other accessories can lead to a danger of injury.
- Please turn off the power before connecting or disconnecting the desoldering iron gun.

Maintenance

1. Before further use, safety devices with slightly damaged areas must be arefully checked for error-free and intended operation.
2. Inspect moving parts for error-free operation and that they don't bind, or whether any parts are damaged.
3. Damaged safety devices and parts must be repaired or replaced y a qualified technician, so long as nothing else is indicated in the operation manual.
4. Use any aaanyccessoriestachments that are listed in the rationale. Use of other tools and other accessories can lead to a danger of injury.

Keep children at a distance.

- Warning: this appliance is not intended for firm 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.
- The unused desoldering station should be stored in a dry location that is out of the reach of children. Switch off all unused desoldering stations.

Protect yourself against electrical shock..s

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

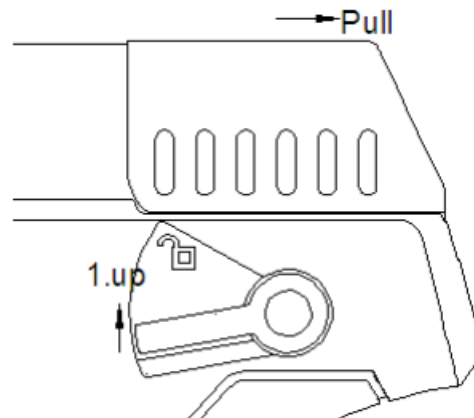
Work environment

Do not use the desoldering station in a moist or wet environment. The desoldering iron gun should be placed on the holder after finished use.

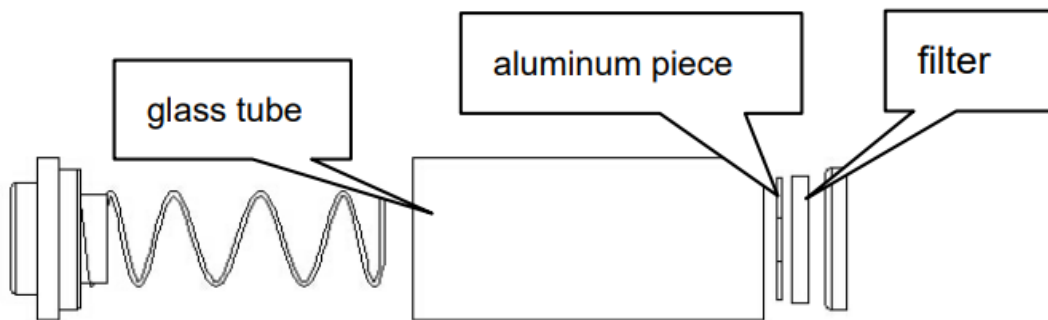
Observe the valid safety regulations at your workplace

Remove solder waste:

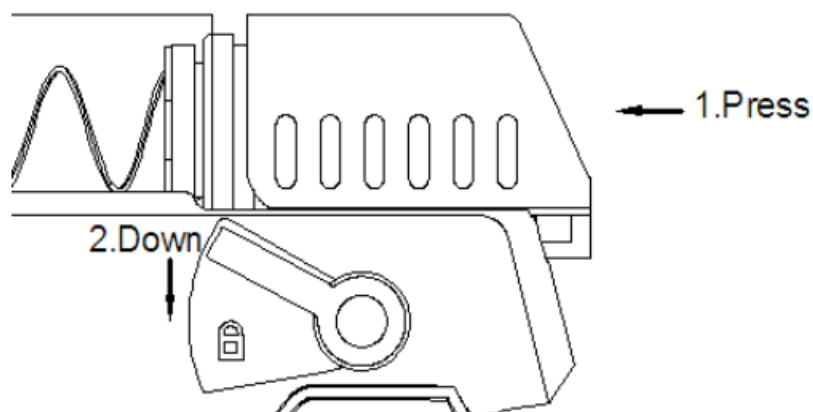
1. Pull the back holder, then the knob will bullet up and become locked automatically.



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



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



FAQs


Q: Can I use the desoldering station without the filter sponge?

A: It is recommended to always use the filter sponge as it helps in debris from entering the system and ensures efficient operation.

Q: What should I do if the desoldering tip temperature reaches the set level?

A: Check the connections, ensure proper calibration, and clean the desoldering tip to improve heat transfer for reaching the desired temperature.

Documents / Resources

	<p>ProKit SS-331 Desoldering Station [pdf] User Manual</p> <p>SS-331B, SS-331EU, SS-331 Desoldering Station, SS-331, Desoldering Station, Station</p>
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References

- [User Manual](#)

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