

# Pro'sKit®

## SS-956 SS-968 LCD REWORK SOLDERING STATION



### SS-956

*Smart Rework Station  
with Vacuum Pickup*

### SS-968

*LCD Smart Hot Air  
Rework Station*



## User's Manual

1<sup>st</sup> Edition' 2020

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Thank you for purchasing **Pro'sKit®** product. The SS-956 SS-968 LCD Smart Hot Air Rework Station has been designed to meet high quality standards. Please properly use and take care of your product for prolonging service life. Please store the manual in a safe, easily accessible place for future reference.

## **SAFETY INSTRUCTIONS**

### **⚠️ WARNING**

**Warnings and cautions are placed at critical points in this manual to direct the operator's attention to significant items. They are defined as follows:**

**⚠️ WARNING:** Failure to comply with a WARNING may result in serious injury or death.

**⚠️ CAUTION:** Failure to comply with a CAUTION may result in injury to the operator, or damage to the items involved. Two examples are given below.

NOTE: A NOTE indicates a procedure or point that is important to the process being described.

EXAMPLE: AN EXAMPLE is given to demonstrate a particular procedure, point or process.

**Be sure to comply with following WARNINGS and CAUTIONS for your safety.**

### **⚠️ WARNING**

**When the power is ON, the temperature of the hot air and the nozzle ranges from indoor temperature to 480°C ( 896°F).**

**To avoid injury to personnel or damage to items in the work area, observe the following:**

- Do not direct the hot air toward personnel or touch the metal parts near the nozzle.
- Do not use the product near combustible gases or flammable materials.
- Advise those in the work area that the unit can reach very high temperatures and should be considered potentially dangerous.
- Turn the power OFF when no longer using the Pro'sKit SS-956/SS-968 or when leaving it unattended.
- Before replacing parts or storing the unit, allow the unit to cool and then turn the power OFF.

**To prevent accidents and failures, be sure to take the following precautions:**

- Do not strike the hand piece against hard surfaces or otherwise subject it to physical shock.
- Be sure the unit is grounded. Always connect power to a grounded receptacle.
- Do not disassemble the pump.
- Do not modify the unit.
- Use only genuine Pro'sKit replacement parts.
- Do not wet the unit or use the unit with wet hands.
- Remove power cord by holding the plug – not the wires.
- Make sure the work area is well ventilated.
  
- The **Pro'sKit®** SS-956/SS-968 is not intended for use by children or infirm persons without supervision.
- Children should be supervised to ensure that they do not play with the SS-956/SS-968.

## Packing List and Name of Parts

### Name of Parts:



### Packing List:




1. Smart Rework Station with Vacuum Pickup with Two Holders
2. User's Manual
3. Hot Air Gun
4. Air Nozzle x 3
5. Vacuum Suction Pen (SS-956)
6. Suction Cup :  $\Phi 12.5\text{mm}$ ,  $\Phi 10\text{mm}$ ,  $\Phi 6.5\text{mm}$ ,  $\Phi 3\text{mm}$  (SS-956)
7. IC Popper : 15mm ,20mm (SS-956)
8. Power Cord

## Features and Specifications

### Features:

- Microprocessor-controlled with closed circuit sensor design provides better performance and accurate temperature control.
- Temperature calibration function.
- Handle with sensor design switches work & sleep mode for real-time operation convenience.
- Provide 600W high power and wide temperature range up to 480°C.
- Auto cool-off process to prolong the lifetime of heating element
- ESD safe design prevents static and electric leakage to damage the PCB.
- Complies with CE and ESD standard, conforms to RoHS.
- High quality air pump supply and quiet operation.
- Silicone handpiece cord wire heat-resistant up to 200°C.
- Additional ground contact and power cord socket.
- Interchangeable and applicable to most of branded hot air nozzles.

## Specifications:

Specification	SS-956B SS-968B	SS-956H SS-968H	SS-956C SS-968C	SS-956E SS-968E
Power Input	220V~240V~, 50Hz		240V~, 50Hz	110V~120V~, 60Hz
Power Consumption	600W			
Temperature Range	Room Temperature~480°C(896°F)			
Heating Element	Metal Heating Core			
Temperature Calibration	0~699°C(0~999°F) , Adjustable			
Pump/Motor Type	Diaphragm Pump			
Air Capacity	24L/min(Max)			
Suction Capacity	100g(SS-956)			
Auto Sleep Function	YES			
Auto Cool-Off Function	YES			
Equipment Noise	<50dB			
Temperature Display	LCD (60mm X 35mm,Backlight)			
Fuse	5A/250V (φ5x20mm)			8A/250V (φ5x20mm)
Power Plug	B 	H 	C 	E 
Heating Element Model No.	5SS-989NB-H		5SS-989NC-H	5SS-989NE-H
Hot Air Gun Model No.	9SS-968B-HG		9SS-968C-H G	9SS-968E-HG
Nozzle	9SS-900-A1 (ID:Ø2.2mm) x 1pce 9SS-900-A2 (ID:Ø6.6mm) x 1pce 9SS-900-A3 (ID:Ø8.5mm) x 1pce Suction Cup: Φ12.5mm/Φ10mm/Φ6.5mm/Φ3mm x 1pce (SS-956) Opening Lever(Width) : 15mm / 20mm x 1pce (SS-956)			
Dimensions	250(L)*230(W)*170(H)mm			
Weight	3.2kg			
Package	Color Box			

## Main menu( Fig.1)

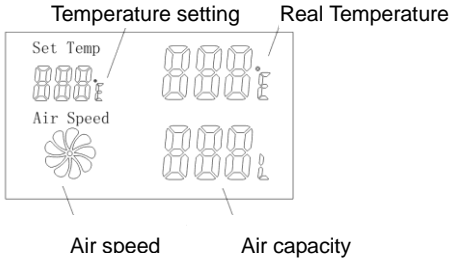


Fig.1

## Assembly

1. Please remove the pump securing screw (M5x12 with red mark) from the bottom of the rework station. Failure to do so may result in serious problems (Fig.2)



Fig.2

2. Insert the power plug into socket.
3. Power on the rework station, and LCD screen will display standby status after two seconds (Fig.3). When lift the hot air gun, LCD screen will display the last setting temperature..



Fig.3

4. Do not unplug the power plug instantly after turning off the power switch, because the fan will keep operating to cool down the heating element. The power plug only can be unplugged while the fan stops operation completely.

## Temperature and Air Speed Setting (Hot air gun can not be placed on the holder while setting)

1. Power on the rework station, lift the hot air gun, LCD screen will display main menu (Fig. 4), last setting temperature will display.
2. Press the "SET" button for one second; then choose temperature setting mode or air speed setting mode.
3. In temperature setting mode, the "Set Temp" words will shinning, adjust the temperature by using the UP▲ and DOWN▼ buttons. In another way, you can also press the UP▲ and DOWN▼ buttons directly in the main menu to set the temperature.
4. In the air speed setting mode, the "Air Speed" words will shinning, adjust the air speed by using the UP▲ and DOWN▼ buttons(air speed range from 20~100). After stopping operation around two seconds, it will go back to the main menu.



Fig.4

## Temperature Calibration Setting

The hot air gun should be recalibrated after changing the gun, replacing the heating element or nozzle.

1. Press "SET" button and Down button "▼" in the same time, and main menu will display "CAL" and setting temperature(Fig.5). Press UP ▲ or DOWN ▼ to input actual temperature, press "SET" button to confirm and back to the main menu.



Fig. 5

2. When the status display under temperature is "---"(Fig. 6), it means temperature has not been calibrated.



Fig.6

3. When the status display under temperature is "H" or "HH"(Fig. 7), it means temperature has been calibrated and increased before.



Fig.7

4. When the status display under temperature is "L" or "L L"(Fig. 8), it means temperature has been calibrated and decreased before.

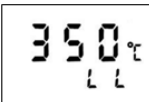


Fig. 8

5. When the status display under temperature is "HHH"(Fig. 9)it means temperature has been calibrated to max. temperature, which can not be increased but only decreased.



Fig. 9

6. The status display under temperature is "LLL"(Fig. 10), it means temperature has calibrated to minimum temperature, which can not be decreased but only increased..

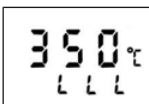


Fig. 10

## Fahrenheit and Centigrade Selection

Press the "SET" button and turn on the power switch to power on the station as Fig.11, and switch the temperature display from °C to °F by pressing the UP ▲ or Down button ▼. After selection, press "SET" button to confirm and back to the main menu



Fig.11

## Reset

Press the UP ▲ and DOWN ▼ button in the same time, rework station will be back to the initial setting; after one second, LCD screen be back to the standby mode(Fig.12).



Fig.12

**! CAUTION:** Choose reset mode will modify all the parameter to the initial setting, please do it carefully.

## Auto Sleep

When hot air gun put on the holder, the temperature of hot air gun will start to decrease (Fig.13), and the display will show "SLP" to indicate hot air gun is in sleep mode now. When the temperature is lower than 100°C, the station will display as Fig.3. It will awake the rework station when hot air gun lift from the holder.



Fig.13

## Auto Cool-Off

After the rework station is turned off, the auto cool-off process leaves the blower on until the heating element cool down to 100°C(Fig 14.), then rework station will shut off automatically.



Fig.14

**! CAUTION:** Do not unplug the power plug when the auto cool off process is work on. Do not touch the pin of plug to prevent electrical shock for human body.

## How to use suction pen(SS-956)

- 1) Choose a proper suction cup according to the weight (less than 100g) and size of object. Install the cap with the suction pen. (Fig. 15)



Fig.15

- 2) Put the suction cup horizontally with the surface of the adsorbed object. Cover the hole on the suction pen, and the object will be absorbed. (Fig. 16)



Fig.16

- 3) Move out the absorbed object, and then open the hole on the suction pen to release the object.

- 4) If need to use suction pen only,(Fig. 17) put the hot air gun on holder, and rework station will be in the auto sleep mode. Press the UP ▲ or Down button ▼ to adjust air speed(air speed range from 20~100)



(Fig. 17)

NOTE:

1. The tube cannot be bent, or it may influence airflow and suction.
2. Absorbed object surface should be smooth in order to be sucked.
3. Pay attention to prevention of ESD, so as not to damage the device
4. Before using vacuum pickup pen, turn off the hot air gun.
5. Do not overexert while fixing nozzle, use pliers to pull the nozzle, or screw breech block too tight.
6. Be careful when working with high temperature.
7. Do not use this product near flammable gas, paper, or other flammable things.
8. The temperature of nozzle and hot air is very high and could injury user. Don't touch the heating part or blow the hot air to body
9. Use hot air to solder is feasible, but it could cause the problem of solder link or solder ball, for which we highly recommend you to check it carefully.
10. For the new machine, it might cause smoke in a short time when it starts to work in the first time due to heating insulation material inside the handle, and this is normal.