982D SE **Precision Soldering Station ESD Safe**

OPERATION INSTRUCTION

Made in China

Statement: The company reserves the right to improve & upgrade products, product specifications and design are subject to change without notice.



Select the corresponding logo

Strictly follow the basic safety guidelines

and precautions when using the product.

● This product should not be thrown in the garbage. In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life must be collected & returned to an authorized recycling facility. ● Este producto no debe desecharse en la basura. De acuerdo a la directiva europea 2012/19/EU, los equipos electrónicos al final de su vida se deberán recoger y trasladar a una planta de reciclaje autorizada. ● Dieses Produkt sollte nicht mit dem Hausmüll entsorgt werden. In Übereinstimmung mit der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer eingesammelt und einem autorisierten Recyclingbetrieb zugeführt werden.

IMPORTANT SAFETY GUIDELINES

Read instruction manual before using

1. To provide continued protection against risk of electric shock, connect to properly grounded outlets only.
2. Do not immerse in water.

Hot Surface. Avoid Contact.

5. Hot Standard. To provide continued protection against electric shock disconnect from the power supply when not in use.

5. Heat gun, soldering iron, desoldering iron must be placed on its stand when not in use.

6. HOUSEHOLD AND INDOOR USE ONLY.

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CAUTION!!! WARNING!!!

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8. This applicance is not intended for use by persons fincluding children with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

10. Children should be supervised to ensure that they do not play with the appliance.

11. The soldering iron and desoldering roin is only to be used with the power supply unit provided with the appliance.

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13. Any servicing should be performed by an authorized service representative AND that the product has no user serviceable parts.

14. To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. Store indoors. Read instruction manual before using.

15. After many result if the appliance is not used with care, therefore.

16. Indied a rease such as a behind walls, ceilings, floors, soffit boards and other may be conducted to combustible matterials 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 units that and the use and allow it to cool down before storage. — do not leave the appliance was the materials when the readily apparent and could result in property damated that are used to the provider of the pro

Specifications

Model number	982D SE
Rated power	200W (245 Handpiece) 40W (210 Handpiece)
Main unit dimensions	L177*W152*H110mm ±5mm
Operating ambient temperature	0~40°C/32°F~104°F
Temperature range	90°C~450°C/194°F~842°F
Display	LCD
Tip to ground resistance	<2 Ohms

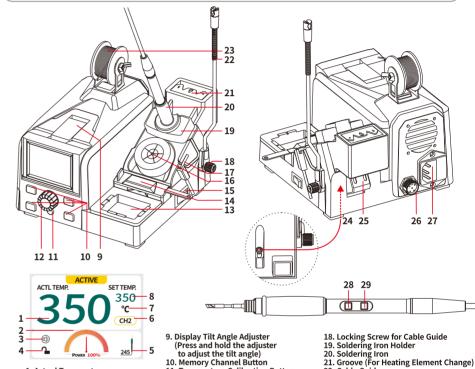
NOTE: When the station is connected

with a 245 handpiece, its rated power is 200W. When the station is connected with a 210 handpiece. its rated power is 40W.

I. Applications

This unit is suitable for de-soldering and soldering operations on various surface-mount components and through-hole components on smartphone motherboards, such as SOP, DIP, SOIC, etc.

II. Product Diagram



- 10. Memory Channel Button 11. Temperature Calibration Button 12. Function Knob/ 1. Actual Temperature 2. Power Meter (Simulated)
- Temperature Adjustment Knob 13. Residual Tray (Front) 14. Groove (For Automatic 3. Buzzer Indicator
- . Function Lock Indicator
- 5. Soldering Iron Indicator
 6. Pre-set Channel Indicator Temperature Calibration)
 15. Power Switch
- (CH1/CH2/CH3/CH4)
- 7. Temperature Unit 8. Set Temperature
- 16. Tip Cleaner 17. Allen Key
- 22. Cable Guide
 23. Solder Dispenser (with Solder Wire)
 - 24. Locking Screw to Residual Tray (Located at the bottom of the station)

 - 25. Residue Tray(Rear)
 26. Receptacle (Soldering Iron)
 27. Receptacle (Power Cord)

 - 28. Temperature Decrease Button 29. Temperature Increase Button

III. Maintenance & Precautions

- 1. If a layer of oxidization forms on the surface of the soldering iron tip, a misconception can be created that the tip cannot heat up properly to melt the solder and do the tinning. However, the actual temperatures of both the heating element and the tip are high. In such an instance, please do not increase the temperature value further but use a metal wool ball to remove the oxidization

 - A. Set the temperature to 300°C (572°F).

 B. Once the temperature stabilizes, gently rub the soldering iron tip inside the metal wool ball.

 C. When the oxidization is partially removed, continue applying solder onto the soldering iron tip while rubbing it until the tip is completely coated with solder. If the tip is too severely oxidized beyond cleaning, replace it with a new one.
- 2. DO NOT use metal files to remove the oxidization on the soldering iron tip. If the soldering iron tip deforms or rusts, replace the soldering iron tip with a new tip.
- 3. DO NOT apply excessive force on the soldering iron tip when soldering. This will not improve the heat transfer and damage the soldering iron tip instead.
- 4. Clean the soldering iron tip after use and tin the tip with a new layer of solder to prevent oxidization
- 5. Clean the Residue Tray (Rear)
- Please clean the residue tray(Rear) when the station is disconnected, fully cooled and the residue tray (Front) is empty.
- 5-1 Remove the solder dispenser, cleaning sponge, soldering iron and heating element inside the groove (For Heating Element Change)
 5-2 Place the station sideways and unscrew the locking screw to the residue tray (Rear). Remove the tray to clean the residue
- inside the tray. 5-3 Install the residue tray (Rear) and tighten the locking screw.
- 6. Change the sensor module. Unscrew the locking screw to remove the original sensor module. Please note to connect positive and negative ends correctly before installing the new sensor module and tightening the locking screw.



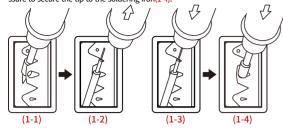
IV. Troubleshooting

"Heating Element Disconnected!" — This is an indication that the station's sensor module is faulty. You need to replace the heating element (the heating element and the sensor modules). Or, the soldering iron/heating element is not connected

V. Operation Instructions

1. Changing Heating Element

Slot the soldering iron tip into the V-shaped groove(1-1), Pull the soldering iron to separate the heating element(1-2), Attach the new heating element to the soldering iron(1-3), Place the soldering iron tip into the hole and apply gentle pressure to secure the tip to the soldering iron(1-4).



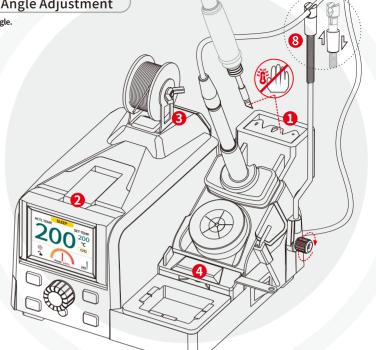
WARNING: When replacing the heating element during the operation (heated), DO NOT touch the heating element or the groove to avoid potential burn injuries. DO NOT place an operational heating element on the heating element groove for an extended period.

Incorrect position when the heating element is not fully installed:

Correct position when the heating element is correctly

2. Display Tilt Angle Adjustment



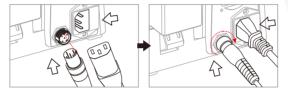


3. Before Use

If the product comes with a solder holder, slot the solder holder into the groove at the top of the main unit.



Place the soldering iron into the soldering iron holder and connect the solder ing iron. Connect the power cord and turn ON the master switch. The station is ready for use

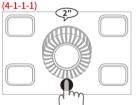


CAUTION: Upon the first use of the soldering iron, when the iron is just hot enough to melt solder, coat the soldering iron tip with a layer of solder (the use of rosin core solder is recommended).

4. Digital Temperature Calibration

Temperature discrepancies may occur due to the change in the environment's temperature or due to the replacement of the heating element and other components. You can correct the discrepancies with this function. The temperature calibration can help improve work efficiency and extend the lifespan of the soldering iron

Note: a. If you need to exit calibration in the middle of the procedure, please press the function knob. b. If the temperature that requires calibration is below 250°C(482°F), the temperature cannot be calibrated automatically. Please calibrate the temperature manually as per "4-2" section in this manual. C. If the calibration is not successful, wait for the soldering iron's temperature to stabilize (approximately one minute) and perform the calibration procedure again.













- 4-1 Temperature Calibration (Automatic) (4-1):
- 4-1.1 Set the temperature that requires calibration 250°C~450°C(482°F~842°F) and then press and hold the temperature calibration button for approximately 2 seconds (4-1-1). Uncover the protection lid as per indicated (4-1-12).

 4-12 Place the tinned soldering iron tip on the sensor and allow the solder to make full contact with the sensor without moving the soldering iron tip (4-1-2).
- 4-1-3 When a long beeping sound is heard and the display exits the calibration interface, remove the tip from the sensor and cover the protection lid Automatic temperature calibration complete (4-1-3).
- Temperature Calibration (Manual)
- 4-2-1 When the soldering station's temperature is stabilized, press and hold CH1 and CH2 button for approximately 2 seconds, the display will show value "CAL" and the set temperature.
 4-2-2 Turn the function knob to enter the measured temperature (4-2-2).

 - 4-2-3 Press the function knob to confirm the entry. The system will automatically calibrate the temperature and exit the calibration interface

5. Menu

Press & hold function knob for approximately 2 seconds to enter the menu interface (4-2-3). Six options are available in the menu, turn the function knob (4-2-2) to select the option for configuration. Press the function knob ton confirm your selection, and the selected option will begin blinking. Once the option is blinking, turn the function knob to select or enter your desired setting. Once done selecting, press the function knob

to confirm selection and return to menu. To exit the menu interface. press and hold the function knob





6. Menu Password Change

Turn the function knob (4-2-2) to move the cursor (options) and press the function knob (4-2-3) to confirm the selection. Once done selecting, turn the function knob to configure the number (option). The new password needs to be entered for 2 times for double-confirmation. Select the "Cancel" icon to return to the main menu, and the password changes will not be saved. Once the new password has been set successfully, the system will natically save the change and return to the menu interface.

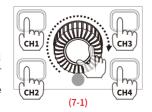


(10-1)

7. Memory Channels CH1/CH2/CH3/CH4

You can preset temperature configurations in each memory channel for different needs When soldering, you can select the suitable preset temperature configurations according to different soldering applications.

Press the corresponding memory channel button to select the channel. Turn the function knob to set the desired temperature for the corresponding channel. Once done setting, wait for approximately 4 seconds, temperature setting complete (7-1).



8. Cable Guide

Secure the cable guide and pull down the cable tie. Insert the cable to the slot of the cable guide and pull up the cable tie. The cable will be securely fastened.

(Note: We recommend installing the cable guide leaning backwards.)

9. Sleep Mode

This function extends the lifespan of the heating element, conserves energy, and protects the environment.

When the soldering iron is placed back into the holder, the soldering iron will enter sleep mode (9-1). When the set temperature is 200°C (392°F) or higher, the temperature will cool to 200°C/392°F; when the set temperature is below 200°C/392°F, the temperature will remain unchanged. Pick up the soldering iron to wake the station



10. Automatic Stand-by

Preset the timer (1-10 minutes). After reaching the preset time during sleep mode, the soldering station will enter standby mode. Pick up the soldering iron to restart the soldering station (10-1).

