U.S. SOLID

SOLDERING STATION

ESD SAFE, TEMPERATURE CONTROLLED, AND THERMOSTATIC

IMPORTANT SAFEGUARDS
CAUTION!!! WARNING!!!

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.

3. Hot surface! Avoid contact!

4. Shock Hazard. To provide continued protection against electric shock, disconnect from power supply when not in use.

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

6. Household and indoor use only.

7. To prevent electric shock, unplug before replacing the fuse or performing other service.

8. Replace only with same type and rating of fuse.

9. This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge, unless they have been granted 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 iron are only to be used with the power supply unit provided with the appliance.

12. If the supply cord is damaged, it must be replaced by the manufacturer, a service agent, or similarly qualified persons.

13. Any servicing should be performed by an authorized service representative and 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. A fire may result if the appliance is not used with care; therefore, be careful when using the appliance in places where there are combustible materials;

- do not apply heat to the same area for a long time;

- do not use in presence of an explosive;

- be aware that 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.

16. To ensure personal safety, please turn off the power switch after work is completed. When not in use for an extended period, please unplug the power cord.

17. Do not install nozzle when the hot air gun is turned on. The heat pipe and nozzle must be cooled before installing another nozzle.

18. Soldering produces fumes; ensure there is adequate ventilation.

19. After use, remember that when cooling the unit, the handle should be placed on the handle holder.

20. Longer, detachable power-supply cords are available and may be used if care is exercised in their use.

21. If a long, detachable power-supply cord is used:

1) The marked electrical rating of the detachable power-supply cord or extension cord should be at least as great as the electrical rating of the appliance;

2) The extension cord should be a grounding type3 wire;

3) The longer cord should be arranged so that it will not drape over the countertop or tabletop, where it could be tripped over, snagged, or pulled on unintentionally (especially by children).

22. A short power-supply cord (or short, detachable power-supply cord) is provided to reduce the risks resulting from tripping or entanglement.

I. APPLICATIONS

Model Number	USS-SS00001
Control Unit Dimensions	L160*W123*H113mm ± 5mm
Operating Ambient Temperature	0℃～40℃/32℉～104℉
Selective Temperature Range	LOW−90 ﹾC-300 ﹾC (194 ﹾF-572 ﹾF) / HIGH−200 ﹾC-480 ﹾC (392 ﹾF-896 ﹾF) Fahrenheit or Celsius Selector-200℃～480℃(392℉～896℉)
Display	LED
Soldering Tip to Ground Resistance	<2ohms

This unit is suitable for desoldering and soldering of various surface-mount components and through-hole components, such as SOP, DIP, SOIC, and many others.

II. PARTS LIST
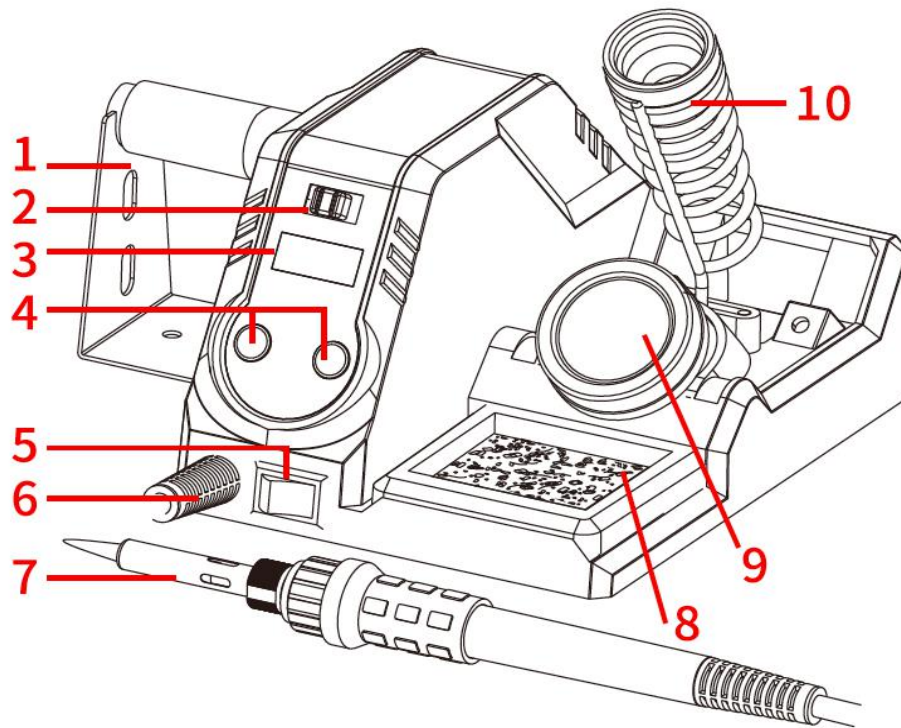
1. Holder (for Solder Wire Spool)

2. Low/High Temperature Range Selector (only one range can be selected at a time)

3. Temperature Display

4. Temperature Adjustment Buttons

5. Power Switch

6. Cord (Soldering Iron)

7. Soldering Iron

8. Residues Tray

9. Cleaning Kit

10. Soldering Iron Holder

III.OPERATION

1. Ensure the soldering iron is set up correctly. The station comes with a solder roll holder, install the solder roll holder. How to install: place the solder roll holder to the left of the station and align it with the installation holes on the left side of the station. Press down to secure the solder roll holder and the station, level them both, and then install the screws to secure the installation.

With the spool holder slot facing up ➜ Slot the spool holder into the installation socket➜ Push the spool holder all the way into the socket.
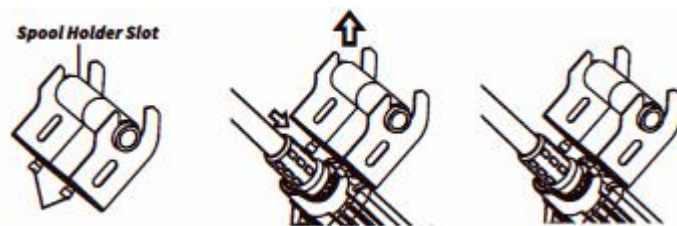
Spool Holder Slot

Socket-Pin (Spool Holder)

2. Connect the station's power cord to an electrical outlet, turn on the power switch, and the soldering station will begin heating. At this point, the station's operating indicator light (the dot located at the bottom-right corner of the display) lights up. The indicator will be ON solidly while the station heats up, blink rapidly and regularly when the temperature is

stabilized, and be OFF when the station is cooling. Begin your operation when the station's temperature stabilizes and its operating indicator light blinks rapidly and regularly.

∃ 0 0. ⬅ Indicator for program tracking temp. at high speed and making temp. compensation.
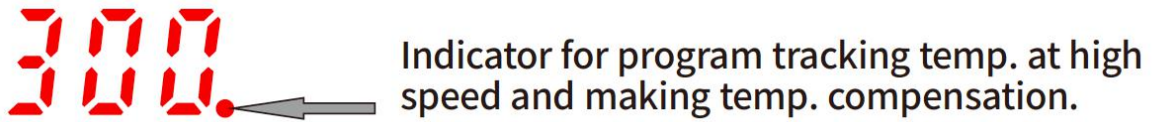
CAUTION: Upon first use of the soldering iron tip, set the temperature to 250°C/482°F. When the soldering iron tip is just hot enough to melt solder, tin the soldering iron tip with a layer of solder (use of rosin-core solder is recommended) before setting the temperature to your desired value.

3. After work is complete, clean the tip with a wet cleaning sponge or a metal wire tip cleaner. Then recoat the tip with a fresh layer of solder. After this, return the handle to its holder. At this time, you may turn off the soldering station switch. If the machine is not in use for a long period, turn off the power switch and unplug the power cord.

● °F / °C Temperature Display

This function allows the station to comply with different user preferences for users in different regions.

1. When the power switch is OFF, press and hold the temperature increase button.

2. Then turn on the power switch, and the display will show "F" to indicate the station is in Fahrenheit display mode.

3. Press the temperature increase or decrease button to select Fahrenheit or Celsius display mode.

4. When there are no further inputs made for about 5 seconds, the system exits the setting interface and saves the data – Setting complete.

NOTE: The stations come with a °F/°C temperature display selector switch. Use the selector switch to select either the Fahrenheit or Celsius display mode.

● Sleep Mode

This function extends the lifespan of the soldering iron, conserves energy, and protects the environment.

1. When the power switch is OFF, press and hold the temperature decrease button.

2. Then turn on the power switch, and the display will show "L10" to indicate the timer value of 10 minutes.

3. Press the temperature increase or decrease button to set the timer value to 0 to turn off sleep mode.

4. When there are no further inputs made for around 5 seconds, the system exits the setting interface and saves the data – Setting complete.

To start up from sleep mode:

A. Shake the soldering iron a couple of times.

B. Press any buttons on the panel.

C. Turn off and then turn on the power switch.

When the temperature setting is greater or equal to 250°C/480°F, the station will cool to 200°C/392°F in sleep mode. When the temperature setting is less than 250°C/482°F, the station will cool to 90°C/194°F in sleep mode (Applicable to models with the LOW/HIGH Temperature Range Selector).

When the temperature setting is 200°C-480°C(392°F-896°F), the station will cool to 200°C/392°F in sleep mode (Applicable to models with °F/°C temperature display selector switch).

● **Digital Temperature Calibration**

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

1. Turn on the power switch and the heating element will begin heating.

2. When the temperature stabilizes, press and hold both the temperature increase and decrease buttons for approximately 2 seconds. The display will show the set temperature while showing 3 additional numerical dots.

3. Press the temperature increase or decrease button to enter the measured temperature value.

4. Press and hold both the temperature increase and decrease buttons for approximately 2 seconds. The system will exit the setting interface and save the data – setting complete.

IV. MAINTENANCE & PRECAUTIONS

1. If a layer of oxidization forms on the surface of the soldering iron tip, you may falsely believe 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 tip are high. In such an instance, please do not increase the temperature value, but use steel wool to remove the oxidization following the steps below:

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

B. Once the temperature has stabilized, gently rub the soldering iron tip within the steel wool.

C. When the oxidization is partially removed, continue applying solder

to 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 one.

3. Do not apply excessive force to the soldering iron tip when soldering. Doing this will not improve the heat transfer but damage the soldering

iron tip instead.

4. When placing the soldering iron back in the holder to idle after high-temperature operation, adjust the temperature to 250°C (482°F) or below for idling. Failure to do so, and leaving the soldering iron tip to idle on a high-temperature setting, will cause accelerated aging of the heating element and shorten the lifespan of the heating element and soldering iron tip.

5. After every operation, clean the soldering iron tip, then tin the tip with a new layer of solder to prevent oxidization.

V. TROUBLESHOOTING

1. "S-E" – 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).

2. "SLP" – This is an indication that the station is in sleep mode.

3. When replacing the heating element, take note of the original connecting order and colors of the wires, which must not be connected incorrectly.

Contact

Feel free to visit our website:

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