

Precision High-Power Hot Air Rework Station
992D III

OPERATION INSTRUCTION



Select the corresponding logo according to the nameplate.

Made in China

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

Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

- 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.
- Dieses Produkt darf nicht in den Müll geworfen werden. Gemäß der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer gesammelt und an eine autorisierte Recyclinganlage zurückgegeben werden.
- Ce produit ne doit pas être jeté à la poubelle. Conformément à la directive européenne 2012/19/UE, les équipements électroniques en fin de vie doivent être collectés et renvoyés à une installation de recyclage autorisée.
- Questo prodotto non deve essere gettato nella spazzatura. In conformità alla direttiva europea 2012/19/UE, gli apparecchi elettronici giunti a fine vita devono essere raccolti e restituiti a un impianto di riciclaggio autorizzato.
- Este producto no debe ser arrojado a la basura. De acuerdo con la directiva europea 2012/19/UE, los equipos electrónicos al final de su vida útil deben ser recolectados y devueltos a una instalación de reciclaje autorizada.

I. APPLICATIONS

1. Suitable for rework applications on a wide range of through-hole and SMD components such as SOIC, CHIP, QFP, PLCC, BGA and more.
2. Suitable for heat shrinking, drying, paint removal, conformal coating removal, defrosting, preheating, sterilizing purposes, glue soldering, and more.
3. Suitable for applications where different air volumes and temperatures are needed.
4. Suitable for lead-free hot air rework applications.

II. MAINTENANCE AND PRECAUTIONS

1. Keep the air outlet clear and free of any blockages.
2. Install the nozzles ONLY when the steel tube and nozzles are cooled. Install the nozzles appropriately, and DO NOT install the nozzles with brute force or pull the edge of the nozzle with pliers. DO NOT over-tighten the installation screws.
3. Select the appropriate nozzle size based on the operation requirement (temperatures may vary when using nozzles in different diameters). When using nozzles smaller than the standard nozzles, you MUST use the maximum air volume with a relatively lower temperature setting. Complete this operation in the shortest possible duration to prevent damaging the hot air gun.
4. Keep a minimum distance of 2mm between the object and the hot air gun's air outlet.
5. DO NOT allow the hot air to come in direct contact with facial parts, and beware of the danger of burn injuries. On first use, the hot air gun may generate white fumes that will dissipate shortly.

Note: The station's hot air gun and soldering iron handles use high-strength stainless steel tubes. The station goes through no less than 4 cycles of testing, inspection, and calibration procedures under standard operation conditions. The steel tube may exhibit light bronze color as a result of our quality control efforts. It is normal to have a slightly bronzed steel tube when using a brand-new station; Rest assured for regular usage.

III. TROUBLESHOOTING GUIDE

The system will prompt error codes when faults are detected, and it will beep to alert the user until the power is DISCONNECTED. If the error codes below are prompted, please troubleshoot with the instructions below.

1. "S-E" - This is an indication that the sensor module is faulty. To resolve this, you need to replace the heating element (the heating element and sensor modules).
2. "H-E" - This is an indication that the heating element is faulty. To resolve this, you need to replace the heating element (the heating element and sensor modules).
3. "F-1" - This is an indication that the motor or the motor's power circuitry is faulty; Please check the motor and its power circuitry.

IV. 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.
3. Hot Surface. Avoid Contact.
4. Shock Hazard. 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.
7. To prevent electric shock, unplug before replace the fuse and 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 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 iron is 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, its service agent or similarly qualified persons in order to avoid a hazard.
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. 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 to the same place for a long time;
 - do not use in presence of an explosive atmosphere; - 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. Hidden areas such as behind walls, ceilings, floors, soffit boards and other panels may contain flammable materials that could be ignited by the heat gun when working in these locations. The ignition of these materials may not be readily apparent and could result in property damage and injury to persons. When working in these locations, keep the heat gun moving in a back-and-forth motion. Lingering or pausing in one spot could ignite the panel or the material behind it.
17. WARNING: Extreme care should be taken when stripping paint. The peelings, residue and vapors of paint may contain lead, which is poisonous. Any pre-1977 paint may contain lead and paint applied to homes prior to 1950 is likely to contain lead. Once deposited on surfaces, hand to mouth contact can result in the ingestion of lead. Exposure to even low levels of lead can cause irreversible brain and nervous system damage; young and unborn children are particularly vulnerable.
18. Before beginning any paint removal process you should determine whether the paint you are removing contains lead. This can be done by your local health department or by a professional who uses a paint analyzer to check the lead content of the paint to be removed.
19. LEAD-BASED PAINT SHOULD ONLY BE REMOVED BY A PROFESSIONAL AND SHOULD NOT BE REMOVED USING A HEAT GUN.
20. Persons removing paint should follow these guidelines:
 - 1) Move the work piece outdoors. If this is not possible, keep the work area well ventilated. Open the windows and put an exhaust fan in one of them. Be sure the fan is moving the air from inside to outside.
 - 2) Remove or cover any carpets, rugs, furniture, clothing, cooking utensils and air ducts.
 - 3) Place drop cloths in the work area to catch any paint chips or peelings. Wear protective clothing such as extra work shirts, overalls and hats.
 - 4) Work in one room at a time. Furnishings should be removed or placed in the center of the room and covered. Work areas should be sealed off from the rest of the dwelling by sealing doorways with drop cloths.
 - 5) Children, pregnant or potentially pregnant women and nursing mothers should not be present in the work area until the work is done and all clean up is complete.
 - 6) Wear a dust respirator mask or a dual filter (dust and fume) respirator mask which has been approved by the Occupational Safety and Health Administration (OSHA), the National Institute of Safety and Health (NIOSH), or the United States Bureau of Mines. These masks and replaceable filters are readily available at major hardware stores. Be sure the mask fits. Beards and facial hair may keep masks from sealing properly. Change filters often. DISPOSABLE PAPER MASKS ARE NOT ADEQUATE.
 - 7) Use caution when operating the heat gun. Keep the heat gun moving as excessive heat will generate fumes which can be inhaled by the operator.
 - 8) Keep food and drink out of the work area. Wash hands, arms and face and rinse mouth before eating or drinking. Do not smoke or chew gum or tobacco in the work area.
 - 9) Clean up all removed paint and dust by wet mopping the floors. Use a wet cloth to clean all walls, sills and any other surface where paint or dust is clinging. DO NOT SWEEP, DRY DUST OR VACUUM. Use a high phosphate detergent or trisodium phosphate (TSP) to wash and mop areas.
 - 10) At the end of each work session put the paint chips and debris in a double plastic bag, close it with tape or twist ties and dispose of properly.
 - 11) Remove protective clothing and work shoes in the work area to avoid carrying dust into the rest of the dwelling. Wash work clothes separately. Wipe shoes off with a wet rag that is then washed with the work clothes. Wash hair and body thoroughly with soap and water.
21. 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!!!
22. Do not install nozzle when the hot air gun is turned on, the heat pipe and the nozzle must be cooling. Then installed the other nozzle.
23. The soldering iron should only be used for soldering. Do not hit the soldering iron against the work surface to remove flux residues (Can be cleaned by the cleaning device of the product), as doing so may seriously damage the soldering iron.
24. Soldering produces fumes, ensure there is adequate ventilation.
25. After used, remember that cooling the unit, the handle should be placed on the handle holder.
26. Longer detachable power-supply cords are available and may be used if care is exercised in their use.
27. 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 type 3-wire cord; 3) The longer cord should be arranged so that it will not drape over the countertop or tabletop where it can be tripped over, snagged, or pulled on unintentionally (especially by children).
28. A short power-supply cord (or short detachable power-supply cord) is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.
29. If the bottom of the brass wool tip cleaner contains solid-state rosin, the below warning applies: This product contains rosin (colophony), and the substance may cause an allergic skin reaction. When using the tip cleaner (rosin-inside), DO NOT inhale the fume generated or consume the solid-state rosin, DO NOT allow your skin and eyes to get in direct contact with the rosin.

Strictly follow the basic safety guidelines and precautions when using the product. The guidelines include:

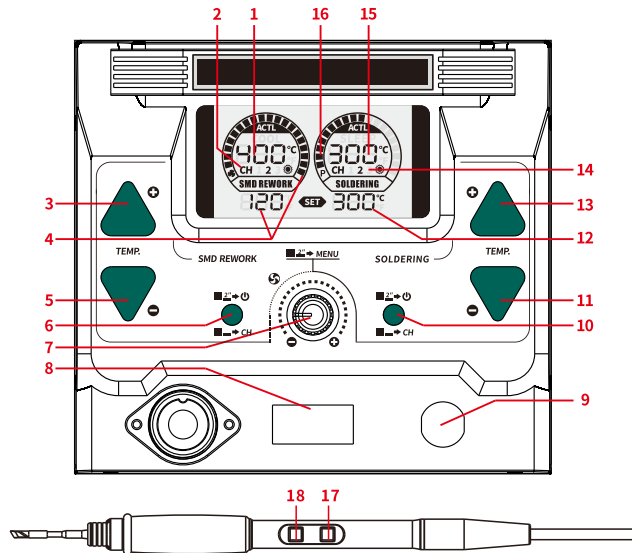
CAUTION!!! WARNING!!!

V. SPECIFICATIONS

Model number	992D III
Rated power	1220W (245 Heating Element), 1140W (210 Heating Element)
Main unit dimensions	L200xW164xH156mm ±5mm
Operating ambient temperature	0~40°C/32°F~104°F
Temperature range (Soldering Station)	90°C~450°C/194°F~842°F
Display	LCD
Soldering tip to ground resistance	<2 ohms
Air Delivery	Compressor Motor
Air Volume (Measured at Exhaust)	≤55L/min
Temperature range (Hot Air Rework Station)	100°C~500°C (212°F~932°F)

VI. CONTROL PANEL

1. Temperature (Hot Air Rework Station)
2. Preset Channel Indicator CH1/CH2/CH3 (Hot Air Rework Station)
3. Temperature Increase Button (Hot Air Rework Station)
4. Simulated Air Volume (Hot Air Rework Station)
5. Temperature Decrease Button (Hot Air Rework Station)
6. Power Button/Preset Channel CH1/CH2/CH3 Button (Hot Air Rework Station)
7. Air Volume Adjustment Knob
8. Master Power Switch
9. Receptacle (Soldering Iron)
10. Power Button/Preset Channel CH1/CH2/CH3 Button (Soldering Station)
11. Temperature Decrease Button (Soldering Station)
12. Set Temperature (Soldering Iron)
13. Temperature Increase Button (Soldering Station)
14. Preset Channel CH1/CH2/CH3 Indicator
15. Actual Temperature (Soldering Station)
16. Simulated Power Value (Soldering Iron)
17. Temperature Increase Button (Soldering Station)
18. Temperature Decrease Button (Soldering Station)



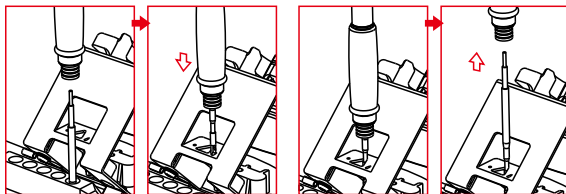
VII. OPERATION

1. Changing Heating Element

WARNING: Please replace the hot air pencil/soldering iron heating element when the handpiece is completely cooled to avoid burn injuries.

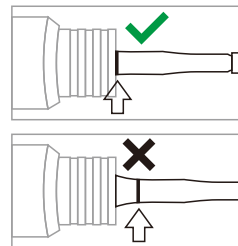
Install/Remove Soldering Iron Heating Element

Attach the heating element to the soldering iron and place the soldering iron tip into the hole. Once in place, apply pressure to secure the heating element (1-1). Slot the soldering iron tip into the V-shaped groove and lift the soldering iron to separate the heating element (1-2).



(1-1)

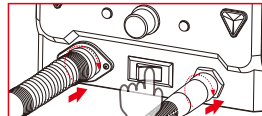
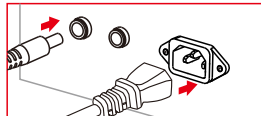
(1-2)



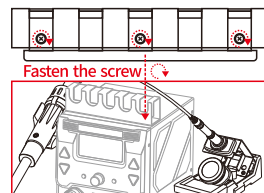
CAUTION: Upon the first use of the soldering iron, set the temperature to 250°C (482°F). When the iron is just hot enough to melt solder, coat the soldering iron tip with a layer of solder (the use of rosin core solder is recommended), then set the temperature to your desired temperature.

2. Before Use

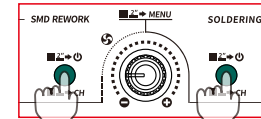
Set the soldering iron in place. Install the hot air nozzle and set the hot air gun in place. Connect the soldering iron holder and power cord. Connect the soldering iron to the main unit and turn ON the master power switch.



Fasten the nut



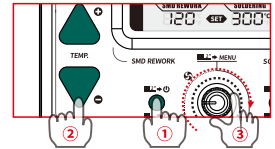
Fasten the screw



Press and hold the hot air rework station's/soldering station's power button for approximately 2 seconds to turn the hot air gun/soldering iron ON or OFF. Pick up the hot air gun to start its use. When the operation is complete, place the hot air gun/soldering iron back to its holder and turn OFF the hot air gun/soldering iron. When the hot air gun stops putting out air, turn OFF the master power switch. If the station is not in use for an extended period, DISCONNECT the power cord from the electrical outlet.

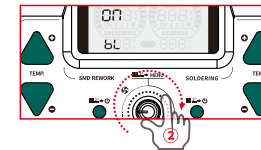
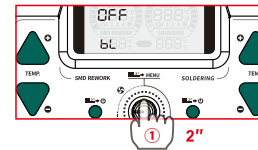
3. Preset Channels

1. Press the hot air gun/soldering iron's power button to select the desired preset channel.
2. Set the preset temperature by pressing the temperature increase or decrease button.
3. Adjust the preset air volume by turning the air volume adjustment knob. Once done setting, stop operating for 3 seconds and the data will save automatically.



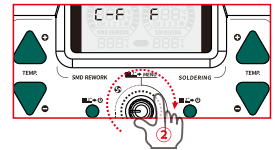
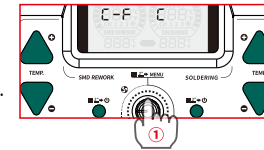
4. Buzzer Prompt

1. Press and hold the air volume adjustment knob for approximately 2 seconds.
2. Turn the air volume adjustment knob to turn the buzzer ON or OFF.



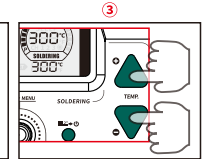
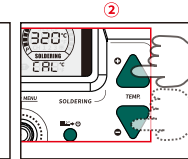
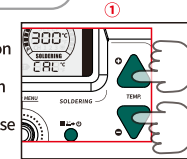
5. °C/°F Conversion

1. Once done setting the buzzer prompt function, press the air volume adjustment knob to proceed.
2. Turn the knob to select the temperature display mode. Once done selecting, press the knob to exit the setting interface.



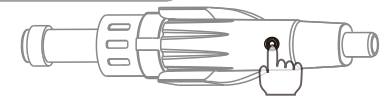
6. Digital Temperature Calibration

1. When the temperature has stabilized, press and hold the temperature increase and decrease button for approximately 2 seconds.
2. Press the temperature increase or decrease button to enter the measured temperature.
3. Once done entering, press the temperature increase and decrease button to confirm the entry.



7. Hot/Cool Air Mode and Standby/Operation Mode Configuration

Press the button on the hot air gun to switch between cool and hot air mode. Press and hold the button for approximately 2 seconds to switch between standby/operation mode.



8. Sleep Mode and Stand-by Function

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. 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 activate the station.

When the station enters sleep mode for longer than approximately 10 minutes, the station will automatically enter the stand-by mode. Pick up the soldering iron to restart the soldering station.