

Hot Air Rework Station ESD Safe

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

OPERATION INSTRUCTION

English



Made in China

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

SPECIFICATIONS

Model number	858D	858AD+
Rated voltage range	220V~240V	
Rated frequency	50Hz	
Rated power	700W	
Main unit dimensions	L150*W100*H130mm ±5mm	
Operating ambient temperature	0~40°C/32°F~104°F	
Display	LED nixie tube	
Temperature range	100°C~500°C/ 212°F~932°F	
Air delivery	Brushless fan with smooth air delivery	
Air volume	≤120L/min	

I. APPLICATIONS

1. *This unit is suitable for rework & soldering operations on a broad range of components. E.g., SOIC, CHIP, QFP, PLCC, BGA, SMD, and more. The unit is especially suited for rework operations on in-line sockets.*
2. *The rework station can be used for heat shrinking, drying, paint removal, conformal coating removal, defrosting, pre-heating, glue soldering, and more.*

II. OPERATIONS

1. Set the rework station appropriately. Attach the hot air gun holder to the right side of the main unit and then place the hot air gun into the holder.
2. Install the required nozzle (the use of larger diameter nozzles is recommended), and then connect the station's power cord to an electrical outlet.

3. Turn ON the hot air rework station's power switch. The hot air temperature display will show “---” to indicate the rework station is in standby mode. Press the hot air temperature increase or decrease button to set the desired temperature and pick up the hot air gun. The hot air gun will enter the standard operation status, and its operation indicator (the dot located at the bottom-right corner of the hot air display) will turn ON. The indicator stays ON when the hot air gun is heating, blinks rapidly when the temperature stabilizes, and turns OFF when the hot air gun is cooling. Adjust the air volume adjustment knob to set the desired air volume. Begin operation once the hot air temperature has stabilized. The rapidly blinking indicator light indicates the temperature stabilization of the hot air gun; the PID program is tracking and compensating the actual hot air gun temperature in milliseconds – The hot air gun is now in a high-stability & high-precision thermostatic state.

Indicator for program tracking temp. at high speed and making temp. compensations.

4. When the operation is complete, place the hot air gun back into its holder. The system will automatically cut off the power to the hot air gun's heating element, and the rework station's operation indicator light will turn OFF. The hot air gun's heating element then starts to cool. When the hot air temperature cools below 100°C/212°F, the hot air temperature display will show “---”. Turn OFF the rework station. DISCONNECT the station's power plug if the station is not in use for an extended period.

°F/°C Temperature Display Setting

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

1. Press and hold the station's temperature increase or decrease button. Then turn ON the station's power switch. The temperature display will show “C” or “F”.
2. Press the temperature increase or decrease button to set the desired temperature display mode - “C” or “F”.
3. Once done setting, wait for approximately 5 seconds. The system will automatically save the data and exit the setting interface. The setting is complete.

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, the soldering iron tip, and other components. You can correct the discrepancies with this function. The temperature calibration function can help improve work efficiency and prolong the lifespan of the heating element.

1. Once the hot air temperature is stabilized, press and hold the temperature increase and decrease buttons simultaneously for approximately 2 seconds. The temperature display will show the temperature value with 3 dots.

2. Press the hot air increase or decrease button to enter the hot air nozzle's measured temperature value.
3. Press the hot air temperature increase and decrease buttons simultaneously for approximately 2 seconds to confirm the entry. The system will automatically calibrate the station's temperature and exit the temperature calibration interface.

III. MAINTENANCE & PRECAUTIONS

1. Always keep the air outlet clear and free of blockages.
2. The installation of the hot air nozzles MUST be carried out ONLY when the hot air gun's steel pipe and the nozzle have cooled. Install the nozzle correctly. DO NOT install the nozzle with brute forces, pull the edge of the nozzle with tweezers, or over-tighten the screws.
3. Select the appropriate nozzle based on your operation requirement (temperatures may vary when using nozzles in different diameters). When using nozzles smaller than the stock nozzles, you MUST use the maximum air volume with a relatively lower temperature setting. Complete this operation in the shortest duration possible to avoid damaging the hot air gun.
4. Keep a minimum distance of 2mm between the subject 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. Upon the first use, the hot air gun may emit white fumes, and the white fume will dissipate in a short while.

NOTE:

The station's hot air gun and soldering iron use high-strength stainless steel tubes. The station goes through 4 rounds of testing, inspection, and calibration procedures before rolling off the assembly line. The steel tube may exhibit light bronze color as a result of our quality control efforts. It is normal the steel tube exhibits a slightly bronze color when you use a brand-new station; Rest assured for regular usage.

IV. TROUBLESHOOTING

1. S-E – This is an indication that the station's sensor module is faulty. To resolve the issue, you need to replace the heating element (the heating element and the sensor modules).
2. F-1/F-2 – This is an indication that the hot air gun is in the fail-safe protection mode. The hot air gun and the hot air gun's power circuitry require inspection in this instance.
3. When replacing the heating element, take note of the original connecting order and colors of the wires which MUST NOT be connected incorrectly.

For reference: compatible parts

Nozzle style (specifications and sizes)

The nozzles sizes match with their corresponding IC sizes.

