SMD HotAit Rework Station

Instrustion Manual

Model: 852

1. Warnings and Safety Instructions

WARNING

A fire may result if this equipment is not used with care and for intended applications.
To avoid electric shock or injury, please follow the instructions below strictly:

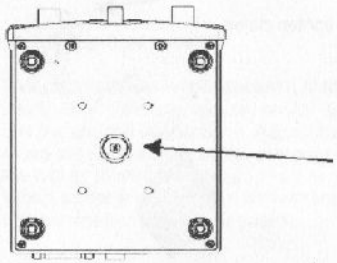
- This appliance must be grounded.
- The temperature of this equipment can reach 500°C. Never touch any metal part of this equipment.
- The unit can output extremely hot air; to avoid serious injury, never point the nozzle towards any part of the body.
- Never use this equipment near any flammable materials or gases.
- Never operate the equipment with wet hands.
- All the electrical circuitry within this equipment is rated to operate at the relevant mains line voltage (depending on model). Always disconnect the power cord before beginning any repairs and maintenance work.

CAUTION – Important Instructions

In order to avoid damage to the equipment, and ensure a proper working environment, please follow the instructions below:

- Operate this equipment in a well ventilated room away from any combustible materials.
- When not be in use, make sure the unit is unplugged from outlet.
- Place handle in stand when not in use.
- Do not drop. Do not use excessive force on the handle. Too much shock and/or vibration may damage the quartz crystal inside the handle's thermal tube.
- Do not operate on uneven surfaces.
- Do not pull or carry the equipment by the handle; this may break the wire inside the handle or disconnect the air tube.
- Allow to cool down before storage.
- When resting the handle on the hander holder, make sure there are no objects within 30 cm of the tip of the nozzle as nearby objects maybe damaged.
- Do not leave the equipment unattended when switched on.
- Do not disconnect from the mains voltage until pump has stopped running.

2. Preparing to Use the Unit



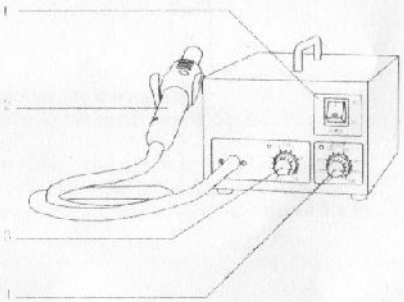
Caution: Remove this screw before operation

3. Operating Instructions

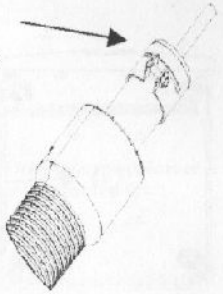
The 850 uses a thermocouple feedback temperature control technique to regulate output temperature.
Adjust heat and air flow controls to the required values for the application.
Closed loop feedback controls the temperature even when airflow is adjusted.

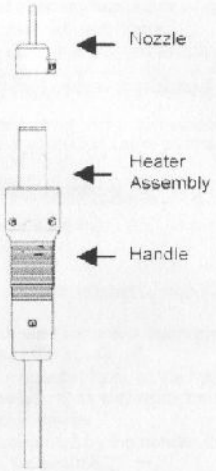
The air pump will continue working 90 seconds after the unit is switched off. This function enables the heater tube to cool down effectively.

1. Powet on/off
2. Handle
3. Air Flow Control
4. Heat/Temperature



CAUTION To change nozzle turn unit off and let cool.
Push nozzle over heater assembly and tighten clamp screw.

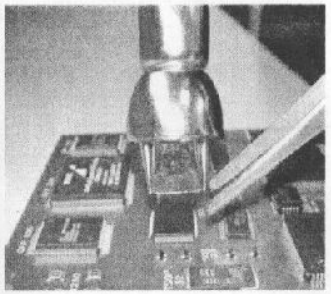




4. Removing & Replacing Components

De-Soldering Components

1. Select the proper nozzle, secure it to the handle
2. Plug power cable into electric socket and switch on the power button
3. Set the desired temperature. Adjust the airflow to desired volume
4. Move the nozzle close to the component leads, maintain 3-5 mm distance. Use the hot air to melt the solder
5. When solder is molten, use a tweezer or other suitable tool to remove the component from the circuit board.



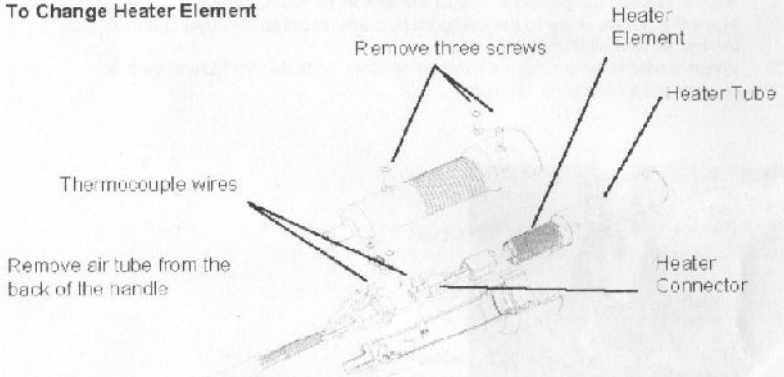
Soldering Components

1. Choose the proper nozzle, secure it to the handle
2. Apply the right amount of solder to the circuit board; position the component on the circuit board
3. Plug power cable into electric socket and switch on the power button
4. Set the desired temperature. Adjust the airflow to desired volume
5. Move the nozzle close to the component leads, blow hot air onto the leads and melt the solder.

5. Maintenance and Service

CAUTION: Risk of electric shock from line voltage – disconnect from electrical supply before replacement of heating element.

To Change Heater Element



a) Remove black air tube from the back of the handle.
b) Remove the three screws that secure the handle.
c) Separate hand piece.
d) Unplug heater connector and disconnect thermocouple wires.
e) Slide heater element out of heater pipe.
f) Insert new heater element into heater pipe.
g) Plug heater connector and connect thermocouple color wires properly.
h) Re-attach handle together and ensure good fit. Then install screws.
i) Insert black air tube back into place.

6. Specifications

Model	852
Input voltage	AC 220V ± 10% 50Hz/60Hz
Power consumption	270W
Airflow type of air pump	Diaphragm type
Airflow volume	24L / Min(Max)
Temperature range	100℃-450℃
Temperature display	Scale indication
Noise	<45dB
Dimensions	330(L)*275*(W)*195(H)mm
Weight	3.6Kg