

# *CSI*

## 899A+

### SMD REWORK STATION INSTRUCTION MANUAL

#### **FEATURES:**

- \* The repairing system combines the functions of both hot air gun and soldering iron welding.
- \* CPU controlled temperature with turbine motor. Best suited for reworking BGAs, PCB's plastic connectors as well as large surface shield and covers.
- \* Digital display of Set and Actual temperature for easy operation.



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## **899 A<sup>+</sup> SMD Rework Statio**

Thank you for purchasing 899A<sup>+</sup> SMD Rework Station. Read the manual before operating. Store instruction manual in a safe place for future reference.

### **I. PACKAGE INCLUSION**

Main control unit, Soldering iron, Hot air gun, Hot air gun holder, Soldering iron stand with solder wire holder, Power Cord and Instruction manual.

### **II. PRODUCT SPECIFICATION**

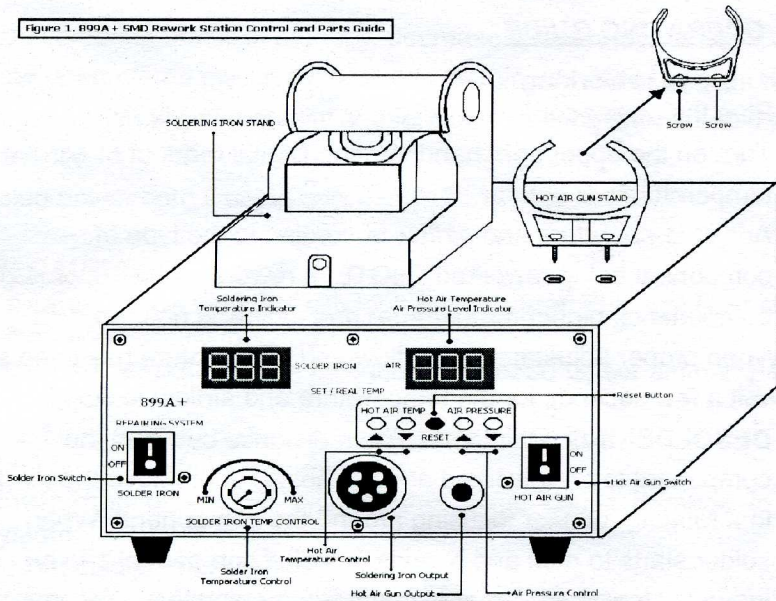
Power Input:	210 - 230 V
Power Consumption:	500W
Output Voltage:	Soldering Iron 24V, Hot Air Gun 200V
Temperature Range:	100 - 480°C (Hot Air Gun)
Pump Type:	Turbine Motor
Heating Elements:	Ceramic heater (Soldering Iron) , Metal Heating Core (Hot air Gun).

### **III. INSTALLATION PROCEDURE**

#### **A. Hot air gun holder:**

1. Remove the two screws on the top right surface of the machine.
2. Install the Hot air gun holder at the top right surface of the unit.
3. See Figure 1 for the proper positioning of the holder.
4. Fasten back the each screw.

Figure 1. R99A + SMD Rework Station Control and Parts Guide



## B. Soldering iron rod and holder setup

1. Remove the two red screws on the top left surface of the machine.
2. Position the soldering iron holder. (Figure 1)
3. Fasten back the screw.
4. Refer to Figure 2 to set up the solder wire flow direction.
5. After installing the holders, plug the soldering iron pen to the solder gun output.

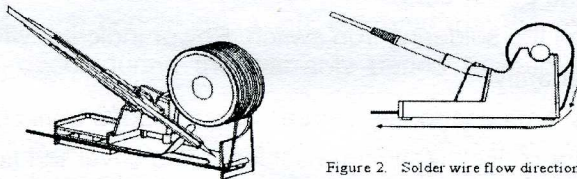


Figure 2. Solder wire flow direction

#### IV. OPERATING GUIDE

##### **A. Hot air gun reworking**

1. Plug the power cord.
2. Turn on the upper right hand switch. Digital readout of current temperature will appear.
3. Adjust *temperature* and *airflow* according to the type of component being reworked. NOTE: If reworking plastic or larger components, higher temperature and airflow is needed.
4. When proper adjustment of airflow and temperature has been set, wait a few seconds for the temperature and airflow to stabilize.
5. **DESOLDERING.** Maintain a 15mm distance between the component to be reworked and the hot air gun. Move the air gun in a rotating manner focusing around the component. When solder starts to melt and sparkle, check if component can be moved. Use a tweezer or IC popper to detach the component.
6. **SOLDERING.** Maintain a 15mm distance between the component to be soldered and the hot air gun. Move the air gun in a rotating manner focusing around the component. Wait until the component bonds.

**CAUTION!** Do not let the air stand in one position for more than one second.

7. Place handset to holder when not in use.
8. Lower set temperature settings and increase airflow after usage, wait for temperature display to go below 150C.
9. Turn off the hot air gun power switch.

##### **B. Soldering iron reworking**

1. Plug the power cord.
2. Turn on the soldering iron switch. Power indicator will light up permanently.
3. For first time usage, set temperature to 250<sup>0</sup>C until power indicator blinks. Melt some solder flux to cover the tip of the soldering iron rod. Keep soldering iron tip covered with a thin layer of flux.

4. When soldering iron is in standby, decrease temperature to 250°C or below. Turn off the switch if it exceeds 20 minutes of not using. This will guarantee welding quality and lengthen heating element and tip usage life.
5. Unplug power cord if not in use.

#### **V. PRECAUTIONS**

- Be careful when working with high temperature. This can burn skin when accidentally touched.
- When hot air gun has temperature above 350°C, set airflow level to 3 or up.
- Don't use product near flammable items.
- Cool down machine after usage
- Never drop or jolt the unit for this might cause damage to the system.
- Do not disassemble.
- Disconnect power plug when not in use for a long time.

#### **VI. TERMS OF WARRANTY**

The product is guaranteed to be in good working condition during the warranty period within the date of delivery from manufacturer or authorized distributor until six months hence. Should the product not be in good working condition upon receipt, or within six months of purchase date, the manufacturer will, as its option, repair or replace the product at no additional charge except as set forth below:

- This warranty covers failure due to faulty materials or workmanship.

- This warranty does not cover the repair of damage due to accident, disaster, misuse, abuse, unauthorized repairs.

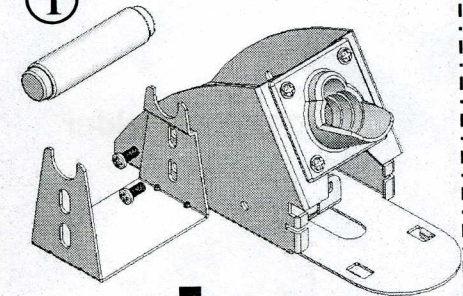
Service under the conditions of this warranty may be obtained by delivering the product during the warranty period to manufacturer or authorized distributor.

Except as explicitly stated herein, all conditions, warranties, representation and undertakings, stated or implied are excluded.

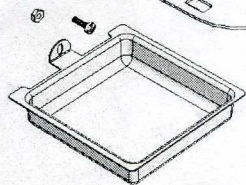
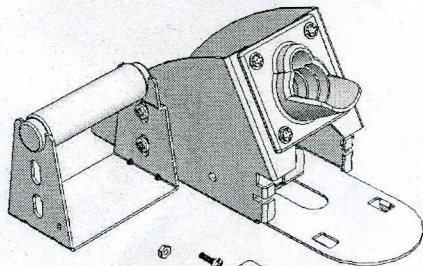
***CircuitSpecialists.com***



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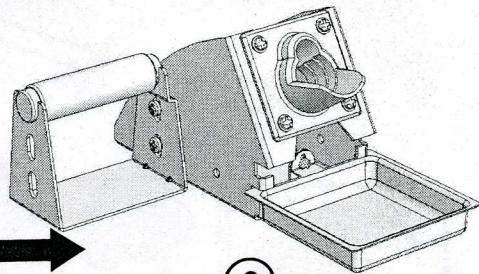


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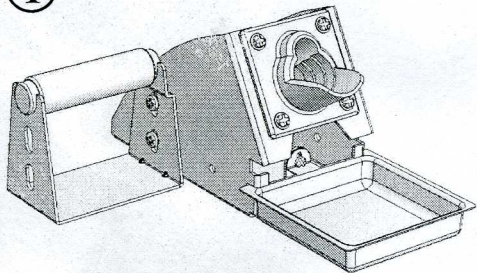


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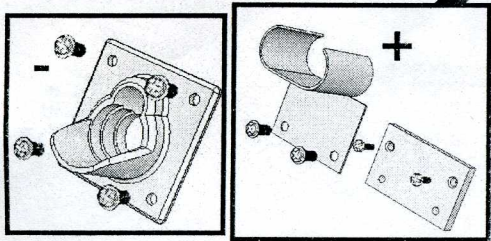
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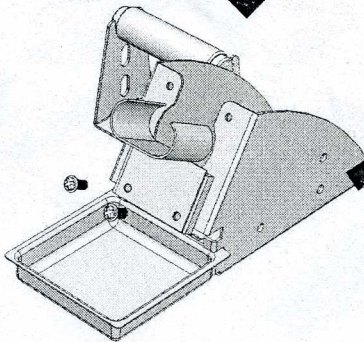
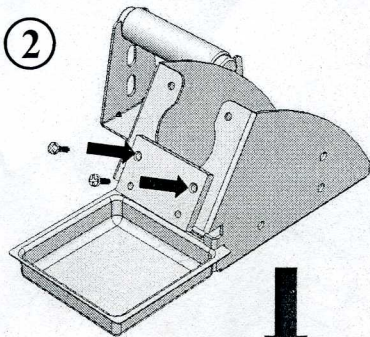
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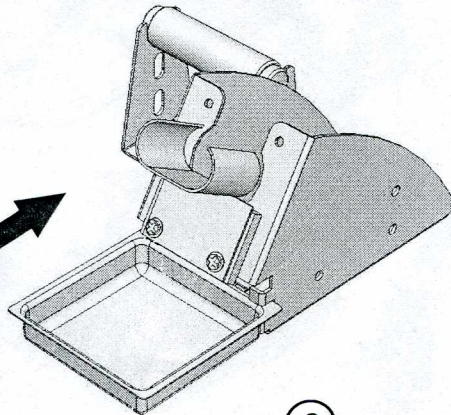
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Tweezers Holder



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