

AOYUE[®] 899A⁺

SMD Rework Station

INSTRUCTION MANUAL

Features

- The repairing system combines the functions of both hot air gun and soldering iron welding.
- CPU controlled with turbine motor. Best suited for reworking BGA, PCB's plastic connectors as well as large surface shield and covers.
- Built-in sensor control. Automatically blows cool air when unit is returned to the holder. Goes to sleep mode when a temperature of 100°C is reached.

Manufacturer:

TONGYI ELECTRONIC EQUIPMENT FACTORY, CHINA.

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[http:// www.aoyue.com](http://www.aoyue.com)

CONTENTS

- I. Package Inclusion
- II. Product Specification
- III. Installation Procedure
- IV. Operating Guide
- V. Precautions
- VI. Terms of Warranty

899 A* SMD Rework Station

Thank you for purchasing 899A* 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
Pump Type:	Turbine Motor
Heating Element:	Metal Heating Core

III. INSTALLATION PROCEDURE

A. Hot air gun holder and Sensor switch bridge set up.

1. Remove the two red screw on the top right surface of the machine.
2. See Figure 1 for the proper positioning of the holder.
Important: When installing the sensor switch bridge, be sure to put the longer end down to the machine. The shorter end shows up.
3. Fasten back the red screw.
4. Check if the sensor switch bridge clicks and moves up and down when pressed.

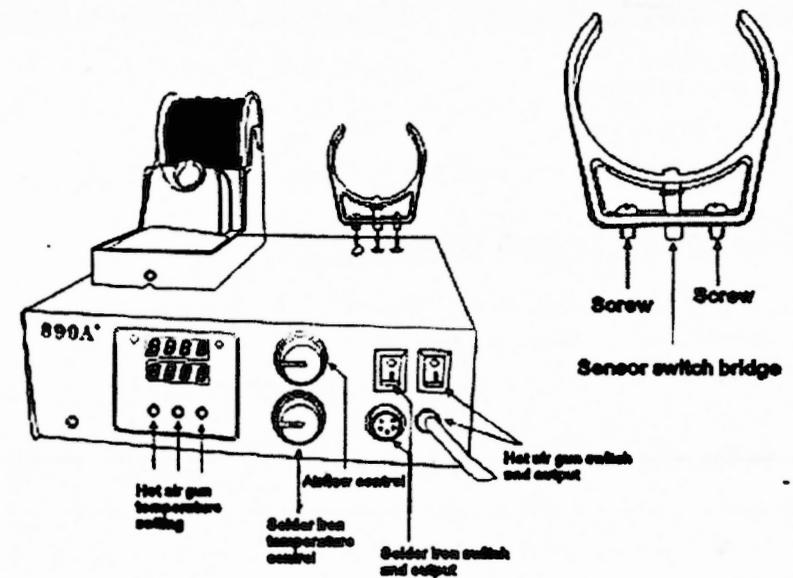


Figure 1. 899A* SMD Rework Station Parts Guide

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 2)
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.

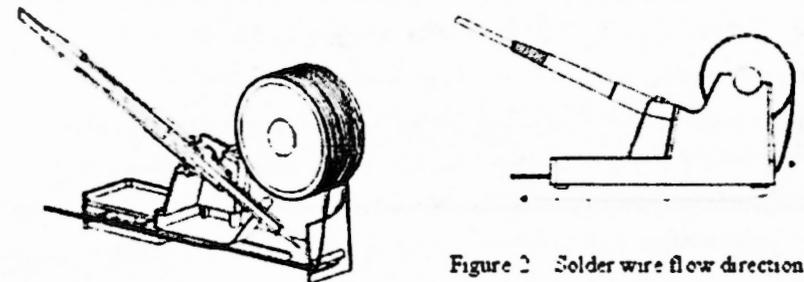


Figure 2 Solder wire flow direction

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. Hot air will turn off and start blowing cool air after placing the air gun to the holder. The CPU control unit will automatically operate into sleep mode when 100°C is reached. Returns to original setting when air gun is lifted.
8. Turn off the hot air gun power switch after usage

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°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.