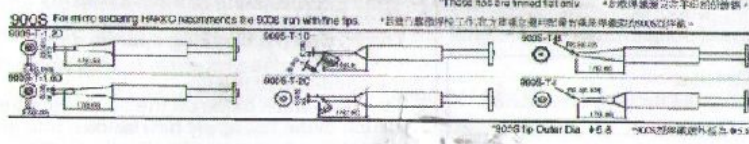
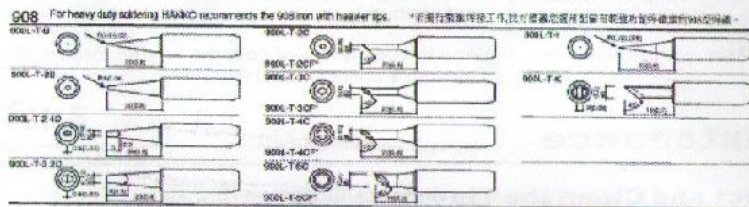
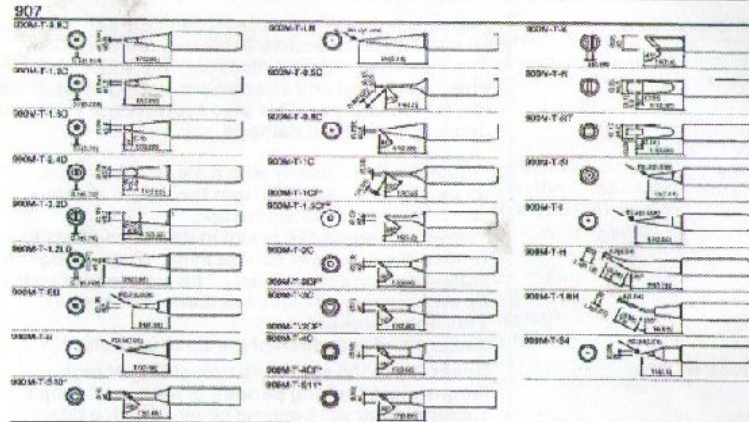


**Tips /**



**ZHAOXIN**  
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**ZHAOXIN**<sup>®</sup>  
Instrument  
Electronic Tools  
DC Power Supply

**936 Soldering Station  
Instruction Manual**

**Model: 936A<sup>+</sup>  
936D**

## Packing List

Please check the contents of the Soldering Station packing and confirm that all the items listed below are included:

936 Station	-----	1
Soldering Iron	-----	1
Iron Holder (with Cleaning Sponge)	-----	1
Instruction Manual	-----	1

## Precautions



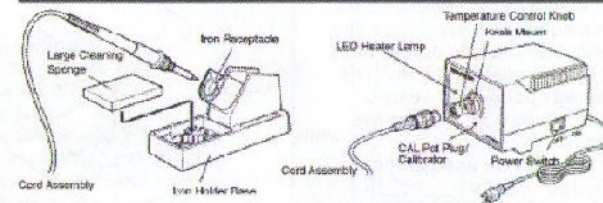
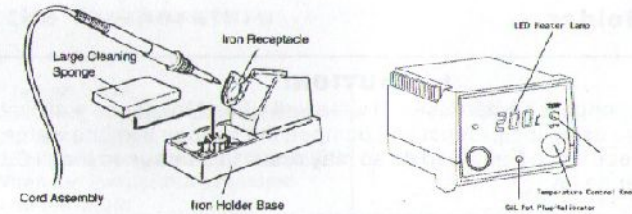
When the power is on, the tip temperature is between 200°C/392 °F and 480°C/896 °F. Since mishandling may lead to burns or fire, be sure to comply with the following Precautions.

- Do not touch the metallic parts near the Tip.
- Do not use the product near flammable items.
- Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- Turn the power off while taking breaks and when finished using the unit.
- Before replacing parts or storing the unit, turn the power off and allow the unit to cool to room temperature.

To prevent damage to the unit and ensure a safe working environment, be sure to comply with the following precautions.

- Do not use the unit for applications other than desoldering.
- Do not rap the soldering iron against the work bench to shake off residual solder, or otherwise subject the iron to severe shocks.
- Do not modify the unit.
- Use only genuine our company replacement parts.
- Do not wet the unit or use the unit when your hands are wet.
- The soldering process will produce smoke, so make sure the area is well ventilated.
- While using the unit, don't do anything which may cause bodily harm or physical damage.

## Names of Parts



## Specifications

Model No	936A+	936D
Power	AC 220V 50Hz-60Hz	
Power Consumption	60W	
Temperature Range	200°C-480°C / 392 °F-896 °F	
Tip to Ground Potential	<0.5mV	
Dimensions	120 W×93 H×70D	
Weight	1.58KG	1.68KG



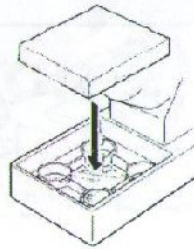
## Setting up & Operating the ZHAOXIN 936

### A. Iron Holder

**! CAUTION:**

The sponge is compressed. It will swell when Moistened with water. Before using the product unit dampen the sponge with the water and squeeze it dry. Failure to do so may result in damage to the soldering tip.

1. Small Cleaning Sponge.  
Dampen the small cleaning sponge with water and then squeeze it dry. Place it in one of 4 openings of the iron holder base.
2. Add water to approximately the level as shown. The small sponge will absorb water to keep the larger sponge above it wet at all times. The large sponge may be used alone (w/o small sponge & water).
3. Dampen the large cleaning sponge and place it on the iron holder base.

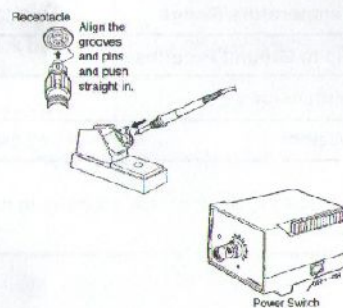


**! CAUTION:**

Be sure to turn off the power switch before connecting or disconnecting the soldering iron. Failure to do so may damage the P.C.B.

### B. Connection

1. Connect the cord assembly to the Receptacle.
2. Place the soldering iron in the iron holder.
3. Plug the power cord into the power Supply. Be sure to ground the unit.
4. Turn the power switch to on. (Green LED light)



**! CAUTION**

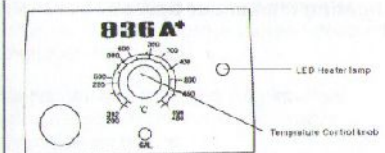
The soldering iron must be placed in the iron holder when not in use.

3

### C. Set the Temperature

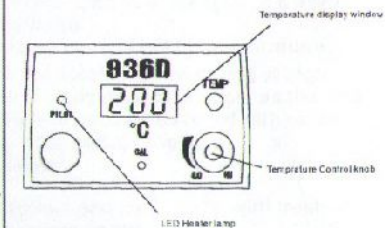
#### 1. 936A set temperature

- a. turn temperature control knob clockwise to preset temperature.
- b. Red LED light when warming, Green LED light When the temperature reached preset temperature.



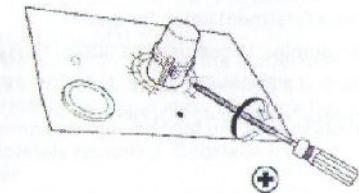
#### 2. 936D set temperature

- a. turn temperature control knob, Digital display window will display preset temperature.
- b. Preset temperature display two seconds later, display tip temperature.
- c. Soldering station will emit "Di" When the temperature reached preset temperature.



### D. Lock temperature

1. zhaoxin 936A+ Station is equipped with a temperature control knob lock. After setting the desired temperature, tighten the hex nut on the under side of the knob with a screwdriver Turn the nut



**! CAUTION**

- Don't overtighten the knob lock.
- Don't attempt to turn the knob when the knob lock is on.

4



## Calibrating the Iron Temperature

The soldering iron should be recalibrated after changing the iron, or replacing the heating element or tip.

1. Connect the cord assembly plug to the receptacle on the station.
2. Set the temperature control knob to 400°C (750 °F).
3. Turn the power switch to ON and wait until the temperature stabilizes. Remove the CAL pot plug.
4. When the temperature stabilizes, use a straight-edge(-) screwdriver or small plus(+) screwdriver to adjust the screw (marked CAL at the station) until the tip thermometer indicates a temperature of 400°C (750 °F). Turn the screw clockwise to increase the temperature and counterclockwise to reduce the temperature. Replace the CAL pot plug.

## Tips

The tip temperature will vary according to the shape of the tip.

The preferred method of adjustment uses a tip thermometer.

A less accurate method involves adjusting the temperature control knob according to the adjustment value for each

Example: When using a 900M-T-H tip at 400°C (750 °F), the difference between this tip and a 900M-T-B tip is -20°C (-36 °F). Set the temperature control knob to 420°C (786 °F).

## Tip care and use

### Tip Temperature

High soldering temperatures can degrade the tip. Use the lowest possible soldering temperature. The excellent thermal recovery characteristics ensure efficient and effective soldering even at low temperatures. This also protects the soldered items from thermal damage.

### Cleaning

Clean the tip regularly with a cleaning sponge, as oxides and carbides from the solder and flux can form impurities on the tip. These impurities can result in defective joints or reduce the tip's heat conductivity. When using the soldering iron continuously, be sure to loosen the tip and remove all oxides at least once a week.

This helps prevent seizure and reduction of the tip temperature.

### When Not in Use


Never leave the soldering iron sitting at high temperature for long periods of time, as the tip's solder plating will become covered with oxide, which can greatly reduce the tip's heat conductivity.

### After Use

Wipe the tip clean and coat the tip with fresh solder. This helps prevent tip oxidation.

## Maintenance

### Inspect and Clean the Tip

 **CAUTION**  
Never file the tip to remove oxide

1. Set the temperature to 250°C (482 °F)
2. When the temperature stabilizes, clean the tip with the cleaning sponge and check the condition of the tip.
3. If there is black oxide on the solder-plated portion of the tip, apply new solder (containing flux) and wipe the tip on the cleaning sponge. Repeat until the oxide is completely removed. Coat with new solder.
4. If the tip is deformed or heavily eroded, replace it with a new one.