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› WEP 927-IV Soldering Station Kit High-Power 110W with 3 Preset Channels, Sleep Mode, LED Magnifier, 5 Extra Iron Tips, Tip Cleaner, 2 Helping Hands, Tip Storage Slots, Lead-free Solder Wire, Tweezers Instruction Manual

WEP WEP 927-IV

WEP 927-IV Soldering Station Kit Instruction Manual

MODEL: WEP 927-IV

1. Introduction

The WEP 927-IV Soldering Station Kit is a high-power 110W unit designed for precision soldering tasks. It features advanced temperature control, user-friendly functions, and a compact, space-saving design, making it ideal for various electronic repair and hobby projects.

Key features include:

- High-power 110W heating element for rapid heat-up.
- Precise double numerical display for set and actual temperature.
- 3 preset channels for quick temperature configuration.
- Sleep mode to prolong soldering iron lifespan.
- Integrated helping hands, LED magnifier, solder wire dispenser, and tip storage slots.

2. Package Contents

Verify that all components listed below are included in your package:

- Soldering Station Body
- Soldering Iron
- Solder Wire
- 5 Assorted Iron Tips (I/B/5.2D/3C/3.2D)
- Desoldering Pump
- Tweezers (ESD-safe, curved)
- Brasswool Tip Cleaner with Rosin Flux

- Cleaning Sponge
- 2 Helping Hands
- Magnifier with LED Lights
- Tip Storage Block

Complete set of accessories



Figure 2.1: Complete set of accessories included with the WEP 927-IV Soldering Station Kit.

3. Setup

Follow these steps to set up your WEP 927-IV Soldering Station:

1. Place the soldering station body on a stable, heat-resistant surface.
2. Insert the soldering iron into its holder.
3. Attach the helping hands and LED magnifier to their designated ports on the station.
4. Place the brasswool tip cleaner and cleaning sponge in their respective compartments.
5. Install the solder wire onto the dispenser.
6. Organize extra tips in the tip storage block.
7. Connect the power cord to the station and then to a 110-127V USA specification power outlet.



Figure 3.1: Fully assembled WEP 927-IV Soldering Station Kit.

Video 3.1: An overview of the WEP 927-IV 110W Soldering Station, demonstrating its components and basic functionality.

4. Operating Instructions

4.1 Power On and Temperature Setting

Turn on the station using the 'POWER' switch. The precise double numerical display will show both the set temperature and the actual temperature. Use the '+' and '-' buttons to adjust the desired temperature within the range of 90°C~480°C (194°F~896°F).

Temperature Range **194°F~896°F°**

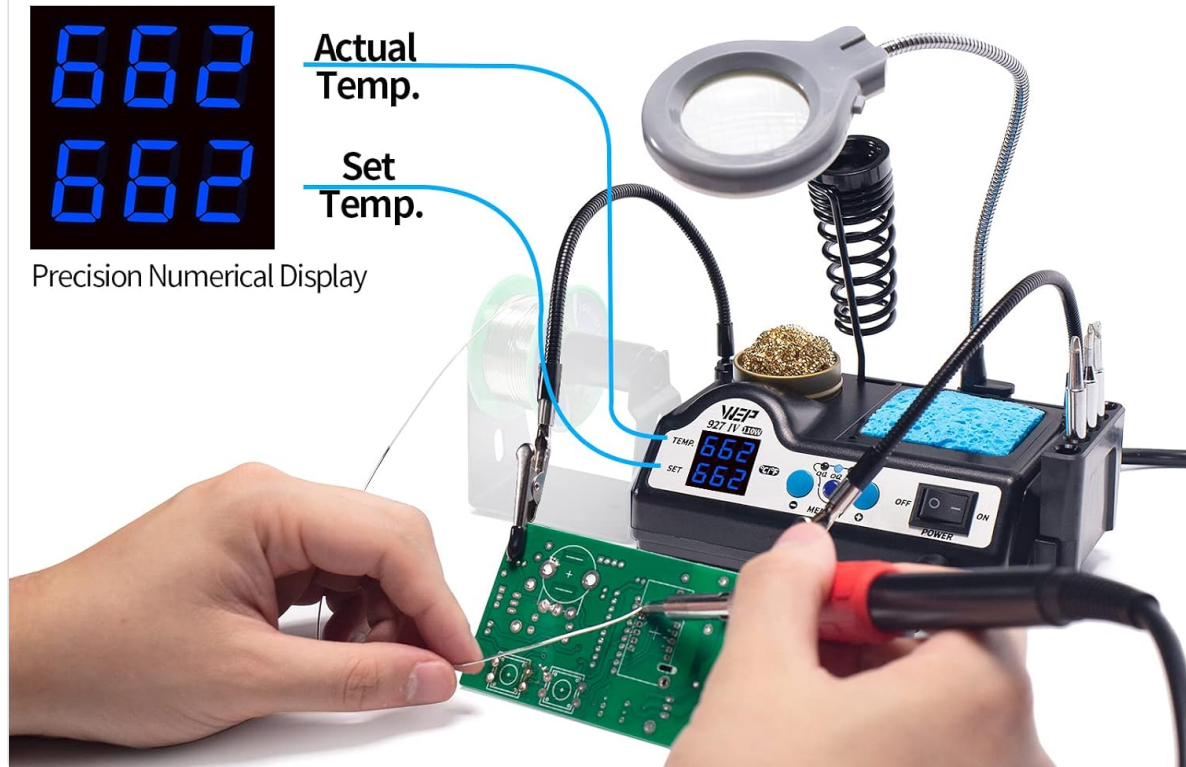


Figure 4.1: Digital display showing actual and set temperatures.

4.2 Using Preset Channels

The station features 3 preset channels (CH1, CH2, CH3) to save your frequently used temperature settings. To save a setting, adjust the temperature to your desired value, then press and hold the corresponding channel button (e.g., 'MEMORY 1') until the display confirms the save. To recall a saved setting, simply press the channel button briefly.

Customize your regularly used temperature settings with **3 CHANNELS**



Figure 4.2: Buttons for selecting and saving 3 preset temperature channels.

4.3 Sleep Mode

The sleep mode feature automatically lowers the soldering iron's temperature when it's not in use for an extended period (timer settable from 0 to 99 minutes). This reduces wear on the iron and prolongs its lifespan. To exit sleep mode, simply shake the iron or press any button on the station.

Extends Lifespan

Soldering Tip & Heating Element for

Sleep Mode



Figure 4.3: Soldering station entering and exiting sleep mode.

4.4 Recommended Soldering Temperatures

For optimal soldering results, especially with lead-free solder, it is recommended to set the soldering iron/station temperature approximately 50°C / 90°F above the solder's melting point. An additional 100°C / 180°F higher temperature can provide a heat reserve for quick thermal recovery of the tip after the solder connection is made.

Recommended Temperature for Soldering

General Rule of Thumb

Your preferred
Solder's Melting Point
+
50°C
+
100°C
||

Smoother Soldering Experience

Lead-Free Solder (Sn-Ag-Cu)
220°C

$220^{\circ}\text{C} + 50^{\circ}\text{C} + 100^{\circ}\text{C} = \mathbf{370^{\circ}\text{C}}$

E.G.



1. The set temperature for a soldering iron/station should be approximately 50°C / 90°F above its melting point to make

2. The set temperature for a soldering iron/station should be an additional approximately 100°C / 180°F higher to provide a heat reserve for the quick thermal recovery of the tip after the solder connection is made.



Figure 4.4: General rule of thumb for setting soldering temperature.

5. Maintenance

Proper maintenance of your soldering iron tip is crucial for prolonging its lifespan and ensuring consistent performance. Always keep the soldering iron tip tinned with a layer of solder before using, after cleaning, and before turning off the station.

5.1 Tinning a New Tip

When using a new tip, tin it with a layer of solder as the iron is heating up. This can be done by applying solder directly onto the tip or by whirling a small roll of solder onto the tip.

5.2 Tip Cleaning

Use the brasswool tip cleaner to remove excess solder and oxidation from the tip. The cleaning sponge, when dampened, can also be used for cleaning. Ensure the sponge is moist, not soaking wet, to avoid thermal shock to the tip.

Maintenance & Servicing

Soldering Iron Tip

Proper maintenance and servicing can make the tips last twice as long.

Keep the soldering iron tip tinned with a layer of solder at all times
Before Using | After Cleaning | Before Turning OFF

When Using a New Tip:

Tin the soldering iron tip with a layer of solder as the iron is heating up

Method A



Apply solder directly onto the tip.

Method B



Whirl a small roll of solder onto the tip.

Figure 5.1: Proper maintenance and servicing of soldering iron tips.

6. Troubleshooting

If you encounter issues with your WEP 927-IV Soldering Station, consider the following:

- **No Power/Display Off:** Ensure the power switch is in the 'ON' position and the power cord is securely connected to both the station and a functional 110-127V power outlet.
- **Iron Not Heating:** Check the temperature setting on the display. Ensure the soldering iron is properly seated in its connection port. If the issue persists, the heating element or tip may need replacement.
- **Poor Solder Flow:** This is often due to an untinned or oxidized tip. Refer to Section 5.1 for proper tip tinning and cleaning procedures. Ensure you are using appropriate solder for your application.
- **Inaccurate Temperature Reading:** While the unit provides precise readings, external factors can influence actual tip temperature. Ensure the tip is clean and properly installed.

For persistent issues or technical assistance, please refer to the Warranty and Support section.

7. Specifications

Attribute	Value
Brand	WEP
Model Number	WEP 927-IV
Wattage	110 watts
Voltage	110 Volts
Display Type	LED
Number of Channels	1 (with 3 preset memory channels)
Temperature Range	90°C~480°C (194°F~896°F)
Item Weight	2.25 pounds (1.02 Kilograms)
Product Dimensions	5.91 x 3.94 x 1.89 inches (150 x 100 x 48 mm)
Country of Origin	China
Manufacturer	Guangzhou Yihua Electronic Equipment Co., Ltd.



Figure 7.1: Dimensions of the WEP 927-IV Soldering Station.

8. Warranty and Support

The WEP 927-IV Soldering Station Kit is covered by a 1-year USA technical support. For assistance, you can contact our dedicated team 24 hours a day. Please refer to the contact information provided with your purchase for support details.

Extended protection plans are also available for purchase, offering additional coverage beyond the standard warranty period. Please check with your retailer for available options.

9. Safety Information

WARNING: This product is rated for 110-127V USA specifications. **DO NOT** connect this iron to a 220V power socket. Doing so may result in damage to the unit, fire, or personal injury.

- Always work in a well-ventilated area to avoid inhaling solder fumes.
- Wear appropriate personal protective equipment, including safety glasses, to protect your eyes from splashes or fumes.
- Ensure the soldering iron is placed securely in its holder when not in use.
- Allow the soldering iron to cool completely before storing.
- Keep out of reach of children.