

YIHUA 982

YIHUA 982 Precision Soldering Station User Manual (C245-Compatible)

Model: 982 | Brand: YIHUA

1. INTRODUCTION

The YIHUA 982 Precision Soldering Station is designed for intricate micro soldering tasks, offering precise temperature control and rapid heating. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your device.



Figure 1: YIHUA 982 Precision Soldering Station and included accessories.

2. SETUP

2.1 Unboxing and Component Identification

Carefully unpack all components. The package should include the YIHUA 982 main unit, 616A iron handpiece, elevated cable guide, solder wire dispenser, and three C245 soldering tips (I / SI / 3.2K).

2.2 Attaching Accessories

1. **Solder Wire Dispenser:** Attach the solder wire dispenser to the side of the main unit using the provided screws. This allows for convenient storage and dispensing of solder wire.

Advantage of YIHUA Cartridge System

Born for the professional precision soldering users

Speed

Rapid 2-second heating time

Precision

Accurate temperature recovery

Size

Minimum presence under microscope

Ease of Use

Support hot-swap during use

Sustainability

Affordable Tip options



Figure 2: Attaching the solder wire dispenser.

2. **Cable Guide:** Secure the elevated cable guide to the main unit. This guide helps manage the soldering iron cable, preventing tangles and improving maneuverability.

Attachable Accessories

Organize your soldering gear and essential consumables



Brass wool
Tip Cleaner



Integrated Holder
with Metallic Residual/Protection Tray



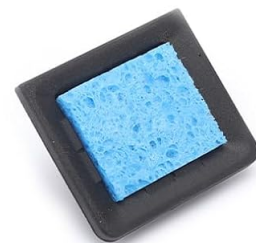
Cable Guide



Solder Wire Dispenser



Tip Change Groove
& Storage Slots



Cleaning Sponge
with Temperature-Resistant Surrounds

Figure 3: Attaching the elevated cable guide.

3. **Cleaning Sponge:** Place the cleaning sponge in its designated slot. Dampen the sponge with water before use for effective tip cleaning.
4. **Soldering Handpiece Connection:** Connect the 616A iron handpiece cable to the appropriate port on the rear of the main unit. Ensure the connection is secure.

2.3 Tip Installation

The soldering iron handpiece uses cartridge-type precision soldering tips (C245 compatible). Proper insertion is crucial for function and to avoid error codes.

- To install a tip, gently push it into the handpiece until it is fully seated.
- An 'S-E' error code indicates that the tip is not fully inserted. Re-insert the tip completely and restart the unit if this occurs.

Installation Guide

Heating Element / Soldering Tip



Heating Element
not installed correctly
Not fully inserted

NOTE: Please ensure the marking line on the heating element has reached the rim of the handpiece's receptacle.



Heating Element
installed correctly
Insert tip fully to the bottom

Figure 4: Correct tip installation (bottom) versus incorrect (top).

2.4 Power Connection

Connect the power cord to the main unit and then to a 110-240V AC power outlet. The unit is designed for US-standard power plugs.

2.5 Installation Video

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Video 1: YIHUA 982 Soldering Station Installation Guide. This video demonstrates the assembly and initial setup of the soldering station, including accessory attachment and tip installation.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

Locate the power switch on the rear of the main unit to turn the station on or off.

3.2 LCD Display Overview

The digital LCD provides real-time information, including actual temperature, set temperature, power meter, preset channel, handpiece status, and buzzer feedback indicator. The power meter allows you to monitor the soldering iron's operational status.

New Display

Car-dash style read-out provides real-time indication of parameters



Figure 5: Detailed view of the LCD display showing operational parameters.

3.3 Temperature Adjustment and Preset Channels

Adjust the soldering temperature using the rotary knob. The station features a PID temperature stabilization function to maintain a steady tip temperature. You can set the temperature from 194°F (90°C) to 842°F (450°C).

- Utilize the 4 preset channels (CH1-CH4) for quick access to frequently used temperatures. These can be customized to your preferred settings.
- The unit supports digital temperature calibration for accuracy.

Adjustable parameters

Temperature	90~450°C
4 Preset Channels	CH1 – 300°C CH2 – 350°C CH3 – 400°C CH4 – Your preferred temperature
Calibration	Digital
Temperature Unit	°C / °F
Buzzer	ON/OFF



Figure 6: Control panel for temperature and channel selection.

3.4 Rapid Heating and Temperature Recovery

Thanks to the cartridge-type tip design, the soldering iron tip can reach soldering temperature from room temperature within 2 seconds. The PID control ensures rapid temperature recovery during use, maintaining consistent performance.

3.5 Sleep Mode and Auto-Shutdown

The station includes a sleep mode, which cools the iron to a default temperature (e.g., 200°C) when placed in the holder, preserving tip life. An auto-shutdown feature activates after 30 minutes of non-use for safety and energy saving.

3.6 Celsius/Fahrenheit Conversion

Easily switch between Celsius and Fahrenheit temperature displays as per your preference.

3.7 Product Overview Video

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Video 2: YIHUA 982 Precision Soldering Station Product Features. This video highlights the key operational features of the soldering station, including temperature adjustment, display functions, and safety features.

4. MAINTENANCE

4.1 Tip Cleaning

Regularly clean the soldering tip to ensure optimal performance and longevity. Use the integrated cleaning kit, which includes brass wool and a cleaning sponge. Always dampen the sponge before use.

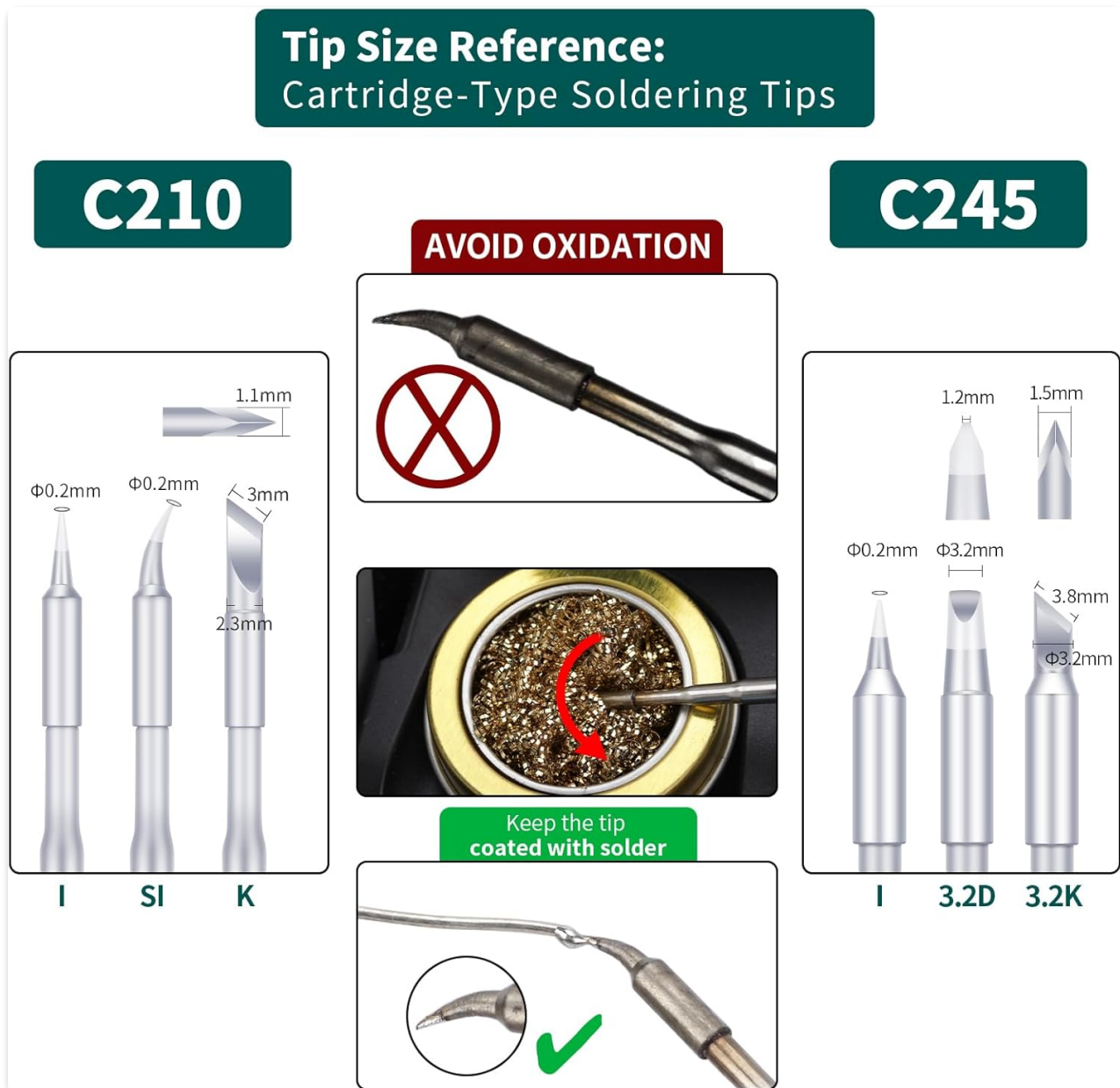


Figure 7: Cleaning accessories and tip change groove.

4.2 Tip Storage and Change

The station features a built-in metallic rack for easy cartridge tip changes and storage. The V-shape cartridge-swap groove allows for safe and convenient tip replacement without direct contact with hot tips.

4.3 General Care

Keep the soldering station clean and free from dust and debris. Ensure proper ventilation around the unit during operation.

5. TROUBLESHOOTING

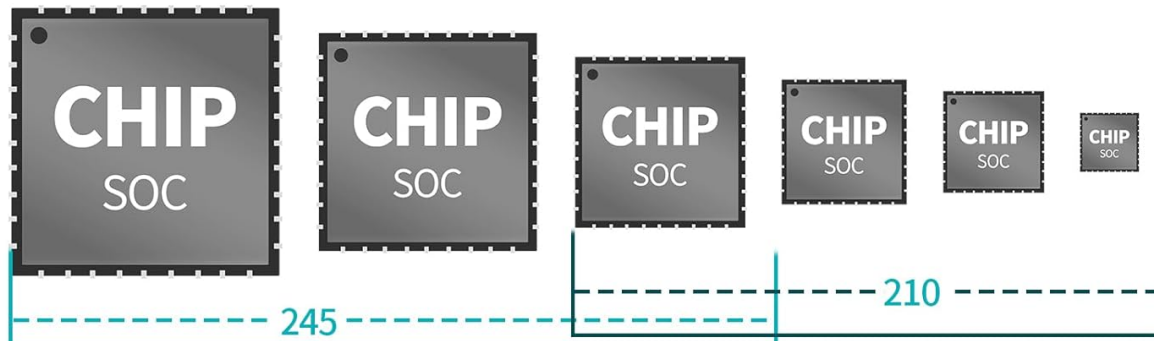
Problem	Possible Cause	Solution
'S-E' Error Code on Display	Soldering tip not fully inserted into the handpiece.	Ensure the tip is fully inserted into the handpiece. Restart the unit. Refer to Figure 4 for correct insertion.
Iron not heating or inconsistent temperature	Loose connection, incorrect temperature setting, or worn-out tip.	Check handpiece connection. Verify temperature settings. Replace the soldering tip if worn.
Unit does not power on	Power cord not connected, power switch off, or power outage.	Ensure power cord is securely connected. Turn on the power switch. Check power supply.

6. SPECIFICATIONS

- **Model:** 982 (C245-Compatible)
- **Temperature Range:** 194°F - 842°F (90°C - 450°C)
- **Temperature Stability:** PID controlled
- **Wattage:** 120 watts
- **Voltage:** 110 Volts (US-standard power plug)
- **Display Type:** LCD
- **Item Weight:** 2.46 pounds
- **Product Dimensions:** 5.79 x 5.63 x 4.17 inches
- **Included Components:** 1×616A Iron Handpiece, 1×Elevated Cable Guide, 1×Solder Wire Dispenser, 1×YIHUA 982 Main Unit, 3×C245 Soldering Tip (I / SI / 3.2K)
- **Special Note:** This product is specifically designed for extremely precise micro soldering. The tip-end diameter is 0.02mm and does not support general or heavy-duty soldering applications.

Greater Thermal Mass

Capable of both precision soldering and general-purpose soldering.



Component sizes for references only, 245 Compatible handpiece is suitable for light-precision soldering work.



Figure 8: Illustration of C245 compatible handpiece for precision work.

Soldering tools since 2000.

Get precision soldering station directly from the manufacturer with 23 years of experience in the industry.



Figure 9: Tip size reference for C245 compatible soldering tips.

7. WARRANTY AND SUPPORT






The YIHUA 982 Precision Soldering Station comes with a 12-month US-exclusive manufacturer technical coverage. For any technical assistance or support, please contact YIHUA's professional assistance team available 24/7 on Amazon.

Related Documents - 982



[982D III 2-in-1 Micro Soldering Rework Station Operation Manual](#)

Operation instructions and safety guidelines for the Yihua 982D III 2-in-1 Micro Soldering Rework Station, covering specifications, applications, operation, maintenance, and troubleshooting.

	<p>YIHUA-8786D Thermo-air Soldering Station and Soldering Iron User Manual</p> <p>Comprehensive user manual for the YIHUA-8786D thermo-air soldering station and soldering iron, covering operation, technical specifications, usage tips, advantages, and maintenance procedures.</p>
	<p>YIHUA 948D-V 5-in-1 Multi-functional Precision Soldering Station - Operation Manual</p> <p>Comprehensive operation instruction manual for the YIHUA 948D-V 5-in-1 multi-functional precision soldering station. Covers specifications, safety guidelines, applications, operation, maintenance, and troubleshooting for hot air rework, hot tweezer, precision soldering, and desoldering functions.</p>
	<p>YIHUA-8786D Hot Air Soldering Station with Soldering Iron - User Manual</p> <p>Comprehensive user manual for the YIHUA-8786D hot air soldering station and soldering iron, covering operation, technical specifications, advantages, troubleshooting, and parts replacement. Includes instructions for both standard and enhanced configurations.</p>
	<p>YIHUA 982D SE Precision Soldering Station ESD Safe - Operation Manual</p> <p>Comprehensive operation instructions and safety guidelines for the YIHUA 982D SE Precision Soldering Station with ESD Safe features. Learn about specifications, applications, maintenance, and troubleshooting.</p>
	<p>YIHUA 2-IN-1 Rework Station ESD Safe Operation Manual</p> <p>Comprehensive operation manual for the YIHUA 2-IN-1 Rework Station, ESD Safe model. Covers applications, control panel, operation procedures, maintenance, troubleshooting, and compatible parts for both hot air and soldering functions.</p>