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## YIHUA C245-Compatible Type-SI

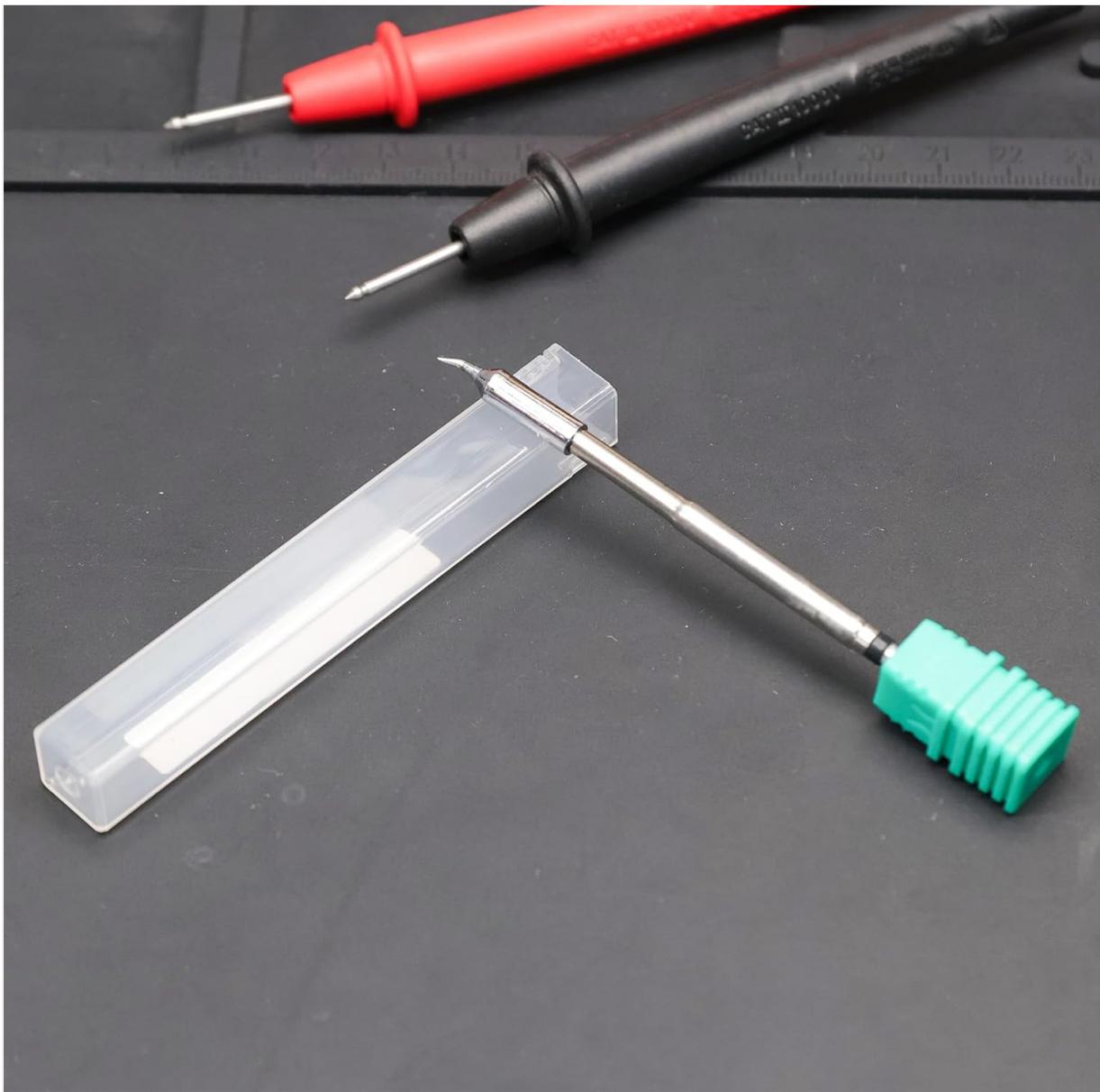
# YIHUA C245-Compatible Type-SI Soldering Tip User Manual

Model: C245-Compatible Type-SI

## 1. PRODUCT OVERVIEW

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This manual provides essential information for the proper use and maintenance of your YIHUA C245-Compatible Type-SI Soldering Tip. This tip is designed for precision soldering tasks and is compatible with specific YIHUA soldering stations and handpieces.



**Figure 1:** YIHUA C245-Compatible Type-SI Soldering Tip shown in its protective plastic casing, ready for installation or storage. The tip features a fine, pointed end suitable for detailed work.

## 2. COMPATIBILITY

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The YIHUA C245-Compatible Type-SI Soldering Tip is designed for exclusive use with specific YIHUA soldering stations and handpieces. **It is crucial to verify compatibility before use to ensure proper function and prevent damage.**

### Compatible Soldering Stations:

- YIHUA 982 Black
- YIHUA 982D
- YIHUA 948D-IV
- YIHUA 983D
- YIHUA 982-III (requires 606A Handpiece)
- YIHUA 982D-II

### Compatible Soldering Iron Handpieces:

- YIHUA 616A
- YIHUA 606A

- YIHUA 616D

**DO NOT purchase or attempt to use this soldering tip if your equipment is not listed above. Using an incompatible tip may lead to poor performance or damage to your soldering station and handpiece.**

If you are uncertain about the compatibility of your YIHUA station or handpiece, please contact YIHUA customer support for assistance.

### 3. SETUP AND INSTALLATION

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Follow these steps to safely install the YIHUA C245-Compatible Type-SI Soldering Tip into your compatible handpiece.

1. **Ensure Power Off:** Always ensure your soldering station is powered off and unplugged from the main power supply before handling the soldering iron or tip. Allow the handpiece to cool completely if it was recently in use.
2. **Remove Old Tip (if applicable):** If replacing an existing tip, carefully remove it from the handpiece. Use heat-resistant gloves if the tip is still warm.
3. **Insert New Tip:** Gently insert the YIHUA C245-Compatible Type-SI Soldering Tip into the designated slot of your compatible YIHUA handpiece (e.g., 616A, 606A, 616D). Ensure it is fully seated and secure. Do not force the tip.
4. **Verify Connection:** Once inserted, ensure the tip is stable and does not wobble. A secure connection is vital for efficient heat transfer.
5. **Power On:** After installation, you may power on your soldering station and set it to the desired temperature.



**Figure 2:** The YIHUA C245-Compatible Type-SI Soldering Tip, illustrating its approximate length of 3.83 inches. This image helps in identifying the tip's physical characteristics.

## 4. OPERATING INSTRUCTIONS

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Proper operation of the soldering tip ensures optimal performance and longevity.

- **Tinning the Tip:** Before first use and periodically during operation, "tin" the tip by applying a small amount of solder to its working surface. This protects the tip from oxidation and improves heat transfer.
- **Temperature Setting:** Set your soldering station to the appropriate temperature for the solder and components you are working with. Refer to your solder's specifications for recommended temperatures.
- **Soldering Technique:** Apply the tip to the joint, then feed solder into the joint, allowing it to flow evenly. Avoid excessive pressure on the tip.
- **Cleaning During Use:** Regularly wipe the tip on a damp sponge or brass wool cleaner to remove excess solder and flux residue.
- **Avoid Dry Heating:** Do not leave the soldering iron powered on for extended periods without tinning or use, as this can cause rapid oxidation and damage to the tip.

## 5. MAINTENANCE

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Regular maintenance extends the life of your soldering tip and ensures consistent performance.

- **Daily Cleaning:** After each soldering session, clean the tip thoroughly with a damp sponge or brass wool. Apply a fresh layer of solder (tinning) before storing.
- **Oxidation Removal:** If the tip becomes oxidized (dark, non-wetting surface), gently rub it with a tip tinner/cleaner compound or fine-grit sandpaper (use sparingly and only if necessary) and then re-tin immediately.
- **Storage:** Store the tip in a dry, clean environment, preferably in its original protective casing or a dedicated tip holder, to prevent physical damage and oxidation.
- **Inspection:** Periodically inspect the tip for signs of wear, pitting, or damage. Replace the tip if it shows significant degradation, as this can affect soldering quality.

## 6. TROUBLESHOOTING

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If you encounter issues with your soldering tip, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Tip does not heat up	Incompatible tip, poor connection, faulty handpiece/station	Verify tip compatibility. Ensure tip is fully seated. Check handpiece/station for faults.
Solder does not wet the tip (oxidized tip)	Tip oxidation due to dry heating or improper cleaning	Clean and re-tin the tip. Use tip tinner if necessary. Avoid dry heating.
Poor solder joints	Incorrect temperature, dirty tip, improper technique	Adjust temperature. Clean and tin tip. Review soldering technique.
Tip wears out quickly	Excessive pressure, abrasive cleaning, high temperatures	Use less pressure. Use brass wool for cleaning. Optimize temperature settings.

If the problem persists after attempting these solutions, please contact YIHUA customer support.

## 7. SPECIFICATIONS

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Feature	Detail
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Feature	Detail
Model	C245-Compatible Type-SI
Material	Iron
Item Weight	0.317 ounces (approx. 0.01 Kilograms)
Included Components	Soldering Tip
Compatibility	YIHUA 982 Black, 982D, 948D-IV, 983D, 982-III (606A Handpiece), 982D-II Soldering Stations; YIHUA 616A, 606A, 616D Handpieces

## 8. WARRANTY AND SUPPORT

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For warranty information or technical support regarding your YIHUA C245-Compatible Type-SI Soldering Tip, please contact YIHUA customer service. You can typically reach support through the Buyer-Seller Messaging System on the platform where the product was purchased. Please provide your product model and purchase details when contacting support.

**Manufacturer:** Guangzhou Yihua Electronic Equipment Co., Ltd.