

AiCE TIs 900M(5)

AiCE TIs 900M Series 5-Piece Soldering Tip Set Instruction Manual

Model: 900M(5) | Brand: AiCE TIs

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your AiCE TIs 900M Series 5-Piece Soldering Tip Set. These tips are designed for various soldering applications, offering rapid temperature recovery and stable temperature retention. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions when working with soldering equipment:

- **Eye Protection:** Always wear safety glasses to protect against solder splashes and fumes.
- **Ventilation:** Work in a well-ventilated area or use a fume extractor to avoid inhaling solder fumes.
- **Hot Surfaces:** Soldering tips reach very high temperatures. Avoid direct contact with skin. Use appropriate tools for handling hot tips.
- **Power Off:** Always turn off and unplug your soldering station before changing tips or performing maintenance. Allow tips to cool completely.
- **Flammable Materials:** Keep flammable materials away from the soldering area.
- **Children and Pets:** Keep soldering equipment out of reach of children and pets.

3. PACKAGE CONTENTS

Your AiCE TIs 900M Series Soldering Tip Set includes:

- 5 x 900M Series Soldering Tips (various shapes: Conical, Screwdriver, Round, Bevel, Bent, Chisel, Knife)



Image 1: The 5-piece set of AiCE TIs 900M series soldering tips, showcasing various tip shapes.

4. PRODUCT FEATURES

- **High Quality Construction:** Made from copper for efficient heat transfer and durability.
- **Rapid Temperature Recovery:** Designed to quickly reach and maintain desired soldering temperatures.
- **Variety of Shapes:** Includes Conical, Screwdriver, Round, Bevel, Bent, Chisel, and Knife shapes to suit diverse soldering tasks, from precision electronics to drag soldering and DIP chips.
- **Compatibility:** Designed for use with a wide range of 900M compatible soldering stations and irons.

5. COMPATIBILITY

These 900M series soldering tips are compatible with many popular soldering stations and irons, including but not limited to:

- HAKKO: 936, 937, 907, 888D, FX-600
- Milwaukee: M12SI-D
- Radio Shack: 64-053
- Yihua: 936/936B
- X-tronics: 3020/3020-XTS
- Baku: 909, 878AD
- Zany: 853d
- Atten, Quick, Aoyue 469, Vastar, Sywon, Tabiger, SOAIY

Note: These tips are not compatible with X-Tronic 3010-XTS, HAKKO 908, 926, or Aoyue 937+ models. Always verify tip dimensions and compatibility with your specific soldering iron before use.

6. SETUP AND TIP REPLACEMENT

Follow these steps to safely install or replace a soldering tip:

1. **Power Off:** Ensure your soldering station is turned off and unplugged from the power source.
2. **Cool Down:** Allow the existing soldering tip to cool completely to prevent burns.
3. **Remove Retaining Nut:** Unscrew the retaining nut or sleeve that secures the tip to the soldering iron handle.
4. **Remove Old Tip:** Carefully slide the old tip off the heating element.
5. **Insert New Tip:** Slide the desired new AiCE TIs 900M series tip onto the heating element. Ensure it is fully seated.
6. **Secure Tip:** Re-attach and tighten the retaining nut or sleeve. Do not overtighten.
7. **Power On:** Plug in and power on your soldering station. Allow the tip to heat up.
8. **Tinuing:** Once heated, immediately tin the new tip with a small amount of solder to prevent oxidation and ensure optimal performance.



Image 2: Dimensional reference for the 900M series soldering tips, showing length (25.8mm) and internal diameters (6.3mm, 4.1mm).

7. OPERATING INSTRUCTIONS

Proper use of soldering tips ensures efficient soldering and extends tip life:

- **Temperature Setting:** Set your soldering station to the appropriate temperature for the solder and components you are using. Avoid excessively high temperatures, which can shorten tip life.
- **Tinuing:** Always tin the tip with a fresh coat of solder before and after each use, and periodically during soldering sessions. This protects the tip from oxidation.
- **Cleaning:** Use a damp sponge or brass wool to clean the tip regularly during use. Avoid abrasive materials.
- **Contact:** Apply the tip to the joint, then feed solder onto the joint, not directly onto the tip. Allow the heat from the tip to melt the solder.
- **Storage:** When not in use, ensure the tip is tinned and stored in a dry, non-corrosive environment.

8. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your soldering tips:

- **Daily Cleaning:** After each soldering session, clean the tip thoroughly with brass wool or a damp sponge and re-tin it with fresh solder.
- **Oxidation Removal:** If the tip becomes oxidized (dark and solder won't stick), use a tip tinner/cleaner compound. Follow the product instructions for the tinner.
- **Inspection:** Periodically inspect tips for wear, pitting, or excessive oxidation. Replace tips that are severely worn or damaged.
- **Storage:** Store tips in a protective container to prevent physical damage and exposure to moisture.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Solder does not stick to the tip (tip appears dark/black).	Tip oxidation.	Clean the tip with brass wool or a damp sponge, then immediately re-tin with fresh solder. If severe, use a tip tinner/cleaner compound.
Tip does not heat up.	Soldering station not powered on, faulty heating element, or incorrect tip installation.	Check power connection. Ensure tip is correctly seated and retaining nut is secure. Consult your soldering station's manual for troubleshooting heating issues.
Poor solder joints.	Insufficient heat, dirty tip, or incorrect soldering technique.	Increase soldering station temperature (if safe for components). Clean and re-tin tip. Review proper soldering techniques.

10. SPECIFICATIONS

Model Number:	900M(5)
Material:	Copper
Item Weight:	Approximately 1.76 ounces (for the set)
Product Dimensions:	4.8 x 3 x 0.5 inches (packaging)
Tip Series:	900M-T-I, 1.2D, 2D, 2.4D, 3.2D (common types)
Manufacturer:	ACE TOOLS CO.,LIMITED

11. WARRANTY AND SUPPORT

AiCE TIs aims to provide high-quality products. If you encounter any issues or are not satisfied with your purchase, please contact the seller for assistance. The product description mentions a commitment to return and full payment refund if not satisfied. For specific warranty details, please refer to your purchase documentation or contact the retailer.

For further support, please visit the [AiCE TIs Store on Amazon](#).

