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› uxcell 900M-T-IS Curved Soldering Iron Tip User Manual

## uxcell 900M-T-IS

# uxcell 900M-T-IS Curved Soldering Iron Tip User Manual

Model: 900M-T-IS

## 1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your uxcell 900M-T-IS Curved Soldering Iron Tips. These tips are designed for precision soldering tasks, offering durability and efficient heat transfer. Adhering to these guidelines will ensure optimal performance and extend the lifespan of your soldering tips.

## 2. PRODUCT OVERVIEW

The uxcell 900M-T-IS soldering iron tips are curved, designed for intricate soldering work, particularly in rework stations. They are constructed from metal, ensuring good thermal conductivity and resistance to oxidation.



Figure 2.1: Two uxcell 900M-T-IS curved soldering iron tips. One tip is shown with its hollow base, and the other is shown with its curved, pointed end and model number engraving.



Figure 2.2: A pair of uxcell 900M-T-IS curved soldering iron tips, highlighting their quantity and model designation.

### 3. SPECIFICATIONS

| Feature                   | Detail             |
|---------------------------|--------------------|
| Model                     | 900M-T-IS          |
| Quantity                  | 2 pieces           |
| Material                  | Metal              |
| Main Color                | Silver Tone        |
| Design                    | Pointy & Curved    |
| Total Length              | 43mm / 1.7"        |
| Shank Diameter            | 6.5mm / 0.25"      |
| Shank Inner Hole Diameter | 4mm / 0.16"        |
| Point Diameter            | 0.6mm              |
| Net Weight                | 11g (for the pair) |

## 4. INSTALLATION

These soldering tips are designed for compatibility with standard soldering irons that accept 900M series tips.

- Ensure Power Off:** Always ensure your soldering iron is unplugged and completely cool before attempting to change tips.
- Remove Old Tip:** Carefully unscrew or pull out the existing soldering tip from the iron's heating element assembly.
- Insert New Tip:** Slide the uxcell 900M-T-IS tip onto the heating element. Ensure it is fully seated.
- Secure Tip:** Tighten the retaining nut or screw, if present, to secure the tip firmly in place. Do not overtighten.
- Initial Tinning:** After installation and heating, immediately tin the new tip with solder to prevent oxidation and ensure proper heat transfer.

## 5. OPERATION

The uxcell 900M-T-IS curved tip is ideal for precise soldering applications, especially on small components or in confined spaces.

- Temperature Setting:** Set your soldering station to the appropriate temperature for your solder and components. Avoid excessively high temperatures, as this can accelerate tip oxidation.
- Tinning:** Always ensure the tip is properly tinned with a thin layer of solder before and after each use. This protects the tip and improves heat transfer.
- Contact and Solder Application:** Bring the tinned tip into contact with both the component lead and the PCB pad simultaneously. Apply solder to the junction, allowing it to flow evenly. The curved design allows for better access and control in tight areas.
- Cleaning:** Regularly clean the tip using a damp cellulose sponge or brass wool during operation to remove excess solder and flux residue.

## 6. MAINTENANCE

Proper maintenance is crucial for extending the life and maintaining the performance of your soldering iron tips.

1. **Optimal Temperature:** Operate at the lowest effective temperature for your solder, ideally not exceeding 800°F (427°C). Operating at higher temperatures is a major cause of detinning and oxidation.
2. **Tip Wiping:** Use only pure cellulose sponges (sulfur-free) that are wet to the touch for wiping the tip. Avoid abrasive materials.
3. **Regular Tinning:** Add rosin core solder of adequate diameter to the working end of the tip regularly, especially before storing the iron and after cleaning. This creates a protective layer.
4. **Storage:** When not in use, ensure the tip is well-tinned and store the soldering iron in a safe, dry place.

## 7. TROUBLESHOOTING

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- **Tip Not Accepting Solder (Oxidation):**
  - Clean the tip thoroughly with brass wool or a damp sponge.
  - Apply a tip tinner/activator if available, then immediately tin with fresh solder.
  - Ensure the soldering iron is reaching the correct temperature.
- **Poor Heat Transfer:**
  - Verify the tip is fully seated and secured in the soldering iron.
  - Check for excessive oxidation on the tip or heating element.
  - Ensure the tip is adequately tinned.
- **Tip Wear:**
  - Excessive pressure during soldering can cause premature wear.
  - Operating at very high temperatures can degrade the tip coating.
  - Ensure proper maintenance as outlined in Section 6.

## 8. SAFETY INFORMATION

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Always observe general safety precautions when working with soldering equipment.

- **Hot Surfaces:** Soldering irons and tips reach very high temperatures. Avoid direct contact to prevent burns.
- **Ventilation:** Solder fumes can be harmful. Work in a well-ventilated area or use a fume extractor.
- **Eye Protection:** Always wear safety glasses to protect against splashes of molten solder or flux.
- **Flammable Materials:** Keep flammable materials away from the soldering area.
- **Power Off:** Unplug the soldering iron when not in use or when changing tips.

## 9. WARRANTY AND SUPPORT

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For information regarding warranty, returns, or technical support for your uxcell 900M-T-IS soldering iron tips, please refer to the retailer's policy or contact uxcell customer service directly through their official website or the platform where the product was purchased.

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and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question