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VECO-T T12

VECO-T T12 Soldering Iron Tips User Manual

Model: T12 Series

INTRODUCTION

This manual provides comprehensive instructions for the VECO-T T12 Soldering Iron Tips. These high-quality replacement tips are designed for use with compatible soldering stations, offering efficient heat conduction and durability for various soldering tasks. Please read this manual thoroughly before use to ensure proper operation and maintenance.

PRODUCT OVERVIEW AND COMPONENTS

The VECO-T T12 Soldering Iron Tips set includes 10 different types of tips, each designed for specific soldering applications. These tips are crafted from high-quality materials to ensure heat resistance, fast heat conduction, and strong conductivity.

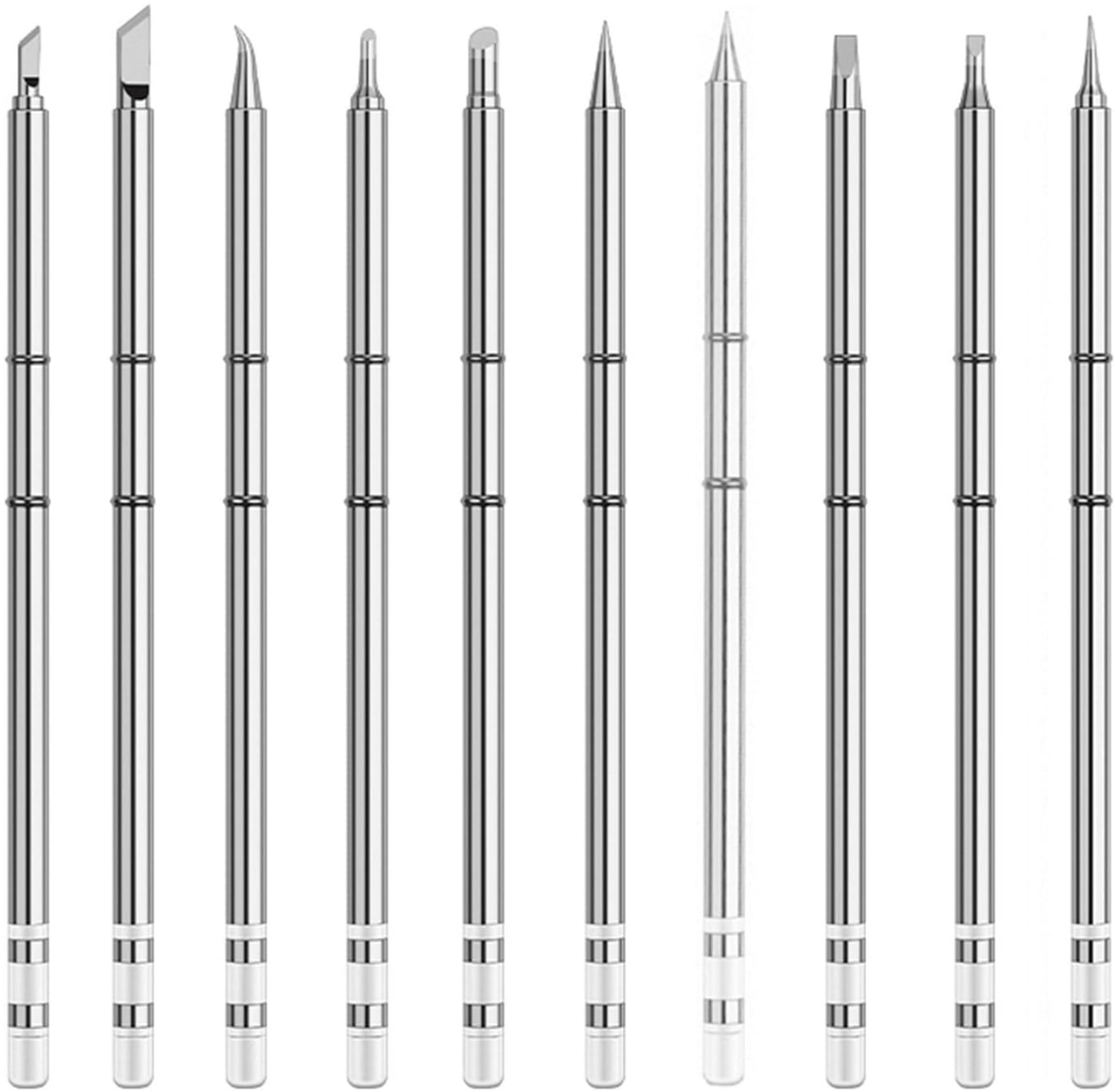


Figure 1: Overview of the 10-piece T12 Soldering Iron Tip set.

The included tip types are:

- T12-C4
- T12-BC2
- T12-BL
- T12-K
- T12-KU
- T12-D24
- T12-D4
- T12-JS02
- T12-I
- T12-ILS

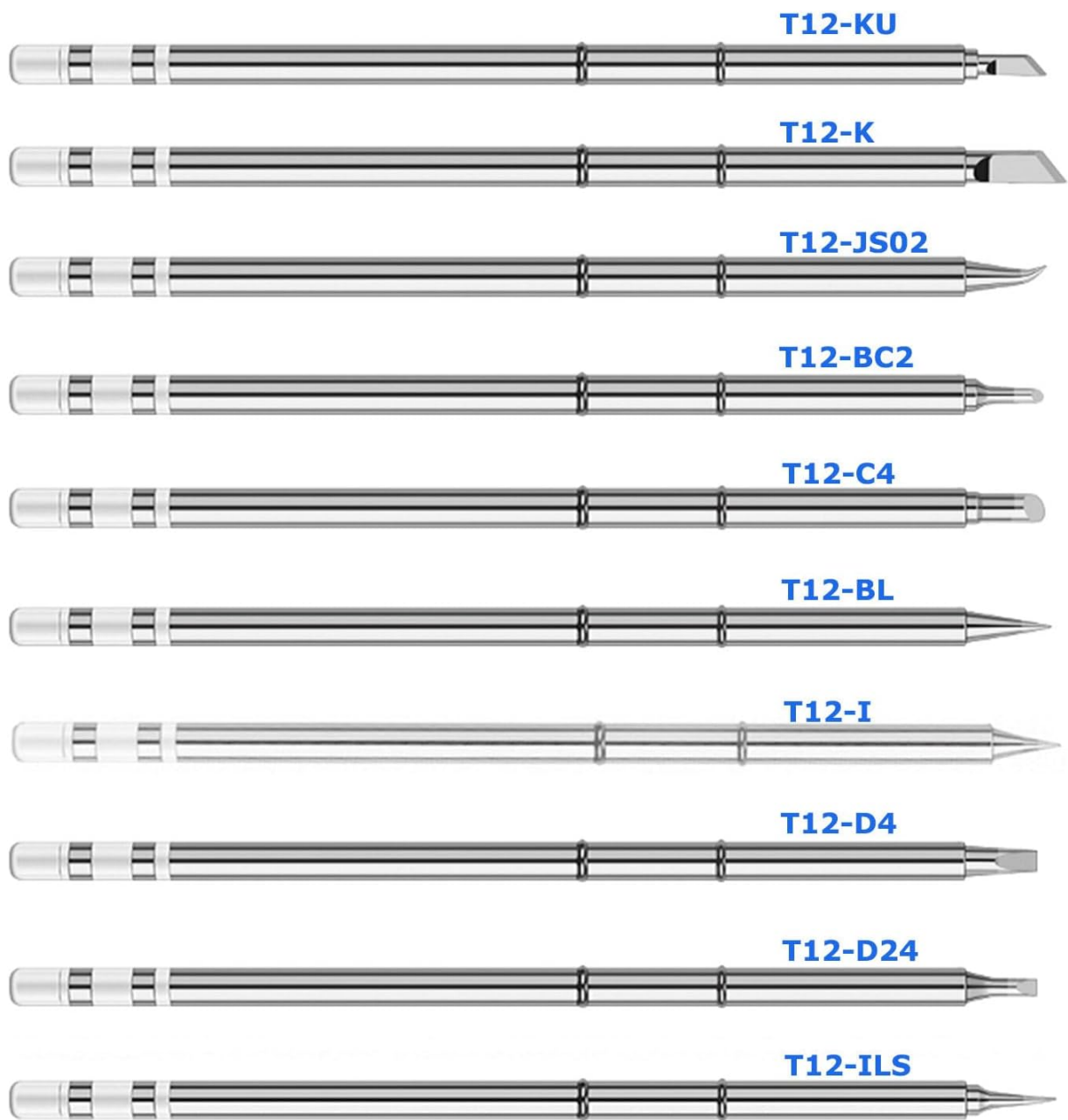


Figure 2: Detailed view of each T12 soldering tip with its corresponding model designation.

SPECIFICATIONS

Feature	Detail
Model Number	T12 Series
Included Tips	10 types: T12-C4, BC2, BL, K, KU, D24, D4, JS02, I, ILS
Material	High-quality, heat-resistant material with multi-layer plating
Temperature Range	50-450°C (122-842°F)
Wattage	350 watts (station dependent)
Item Weight	Approximately 1 ounce (package weight)
Package Dimensions	7.05 x 4.57 x 0.55 inches

COMPATIBILITY

These T12 series soldering tips are compatible with the following soldering stations:

- FX-951 Soldering Station
- FX-950 Soldering Station
- FM-203 Rework Station

Ensure your soldering station is compatible with T12 series tips before installation.

SETUP

Proper installation of the soldering tip is crucial for optimal performance and safety. Follow these general steps:

1. **Power Off:** Always ensure your soldering station is powered off and unplugged before changing tips.
2. **Cool Down:** Allow the existing tip to cool completely if it was recently in use. Soldering tips can remain hot for an extended period.
3. **Remove Old Tip:** Carefully remove the old soldering tip from the handpiece according to your soldering station's specific instructions. Use heat-resistant gloves if necessary.
4. **Insert New Tip:** Gently insert the desired T12 soldering tip into the handpiece. Ensure it is fully seated and secure. Do not force the tip.
5. **Inspect:** Verify that the tip is properly aligned and securely fastened before powering on the station.

Refer to your specific soldering station's user manual for detailed tip replacement procedures.

OPERATING INSTRUCTIONS

Once the T12 soldering tip is installed, you can begin your soldering tasks. These tips are designed for rapid heating and efficient heat transfer.

1. **Power On:** Turn on your compatible soldering station.
2. **Set Temperature:** Adjust the temperature of your soldering station to the desired setting within the recommended range of 50-450°C (122-842°F). The tips are designed for fast temperature rise and recovery.
3. **Tinning:** Before first use, and periodically during operation, tin the tip by applying a small amount of solder to the working end. This helps prevent oxidation and ensures efficient heat transfer.
4. **Soldering:** Apply the heated tip to the joint to be soldered, ensuring good contact for effective heat transfer. Apply solder to the heated joint, not directly to the tip.
5. **Rapid Heating:** These tips are capable of rapid heating, often reaching operational temperature in approximately 5 seconds, depending on the soldering station.

Rapid Heating in 5 Seconds

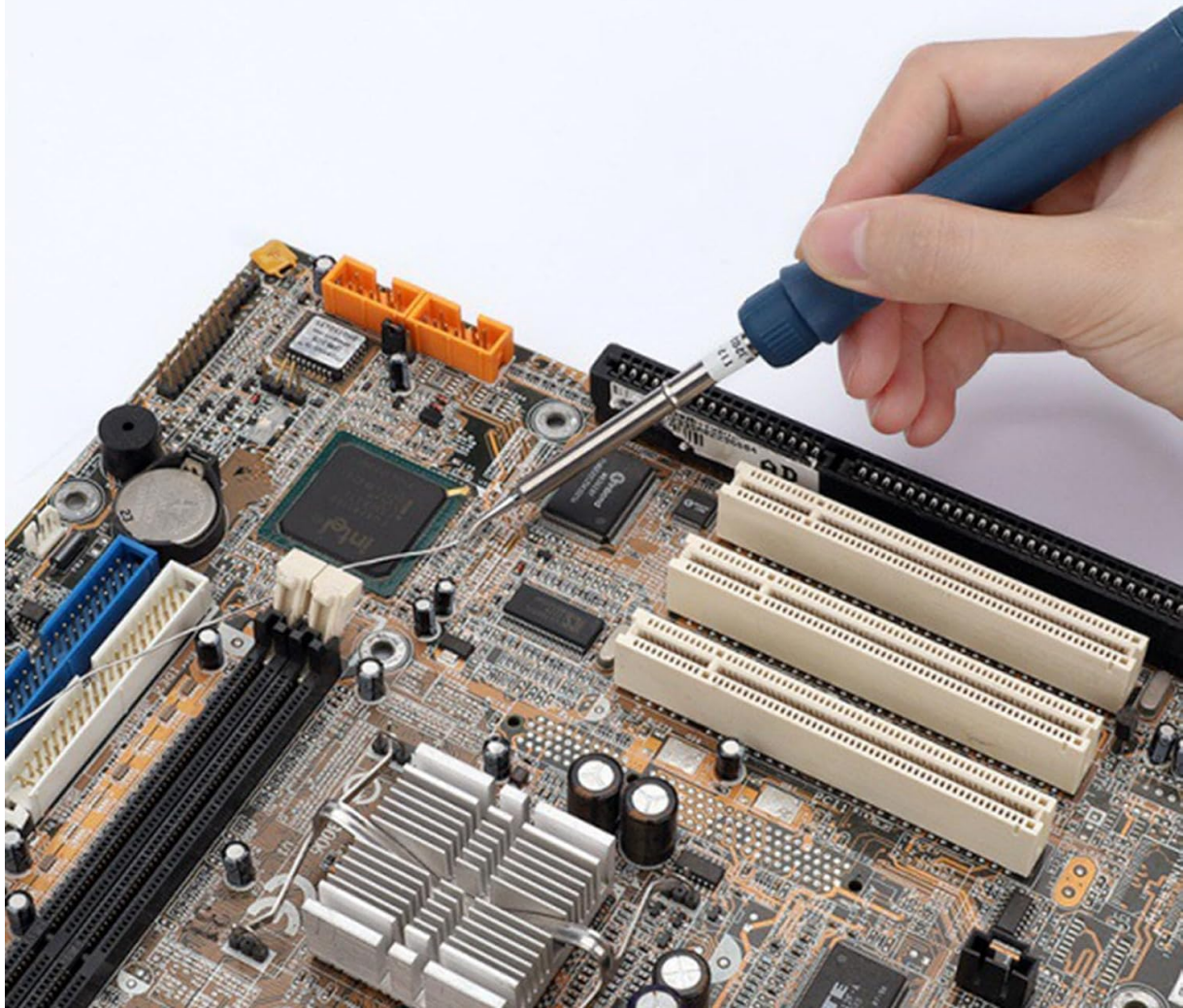


Figure 3: T12 tip in use, demonstrating its rapid heating capability for soldering on a circuit board.

MAINTENANCE

Proper maintenance extends the lifespan of your T12 soldering tips and ensures consistent performance.

- **Tip Cleaning:** Regularly clean the tip using a damp sponge or brass wool during soldering to remove excess solder and flux residue.
- **Re-tinning:** Always re-tin the tip with a fresh coat of solder before storing it and after cleaning to prevent oxidation.
- **Oxidation Prevention:** The tips feature multi-layer plating, including an iron plating and a chrome-plated layer, to prevent tin climbing and reduce oxidation. However, proper tinning and cleaning are still essential.
- **Storage:** Store tips in a dry, non-corrosive environment when not in use.
- **Inspection:** Periodically inspect tips for wear, pitting, or excessive oxidation. Replace tips that show significant degradation.

MULTI-LAYER PLATING AND LONGER SERVICE LIFE

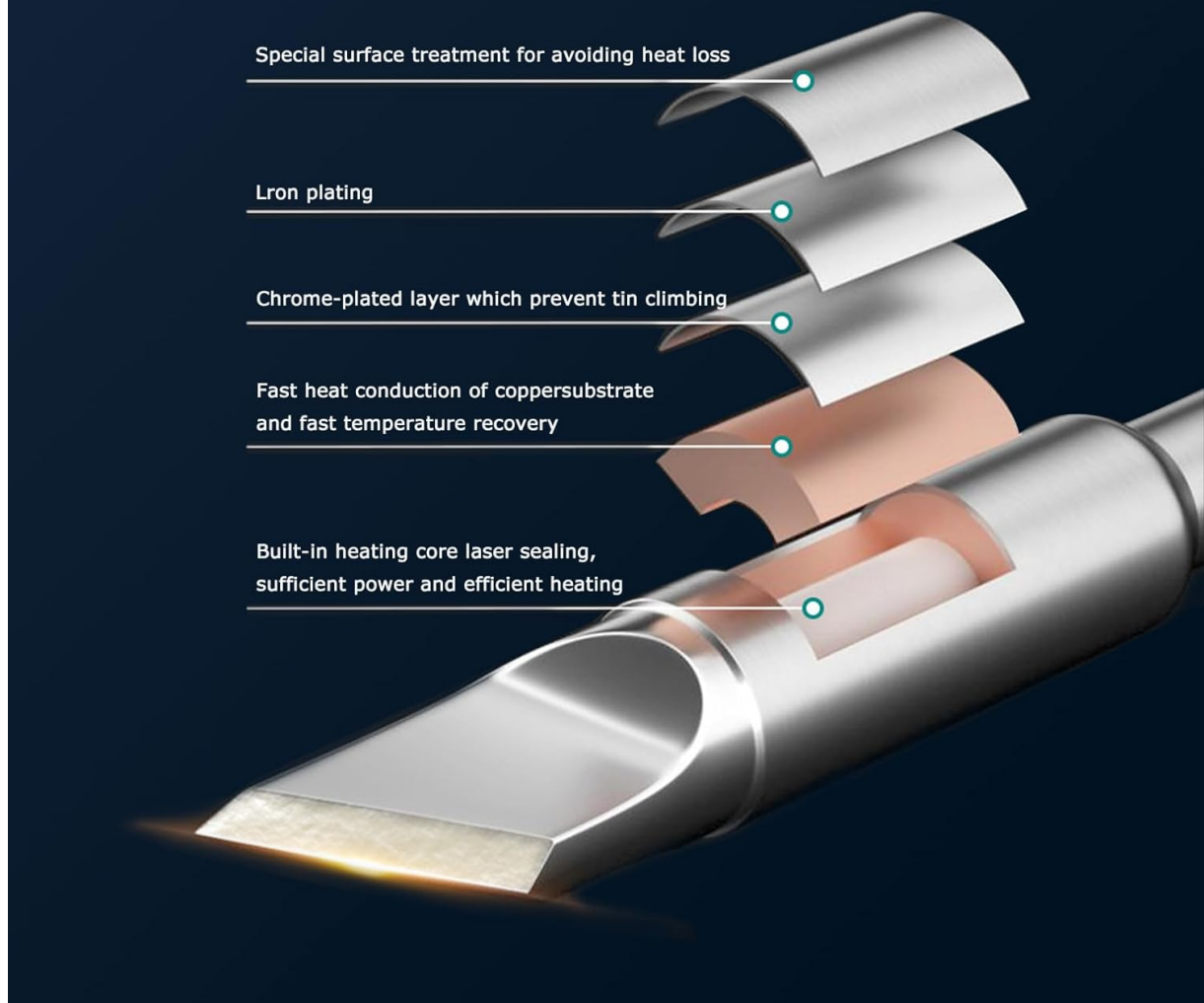


Figure 4: Diagram of the multi-layer plating structure designed for longer service life and efficient heat transfer.

MULTI-LAYER PLATING AND LONGER SERVICE LIFE

Strong temperature control: fast temperature rise, fast temperature recovery, small temperature deviation
High temperature oxidation resistance: work in the range of 662-842°F (350 ~450°C) ,
The oxidation rate is slow, does not deform or penetrate holes.

Durability: The electroplating layer has a fine crystal structure and good durability.

Fluency: good weldability, fast soldering, full solder joints, no false soldering.

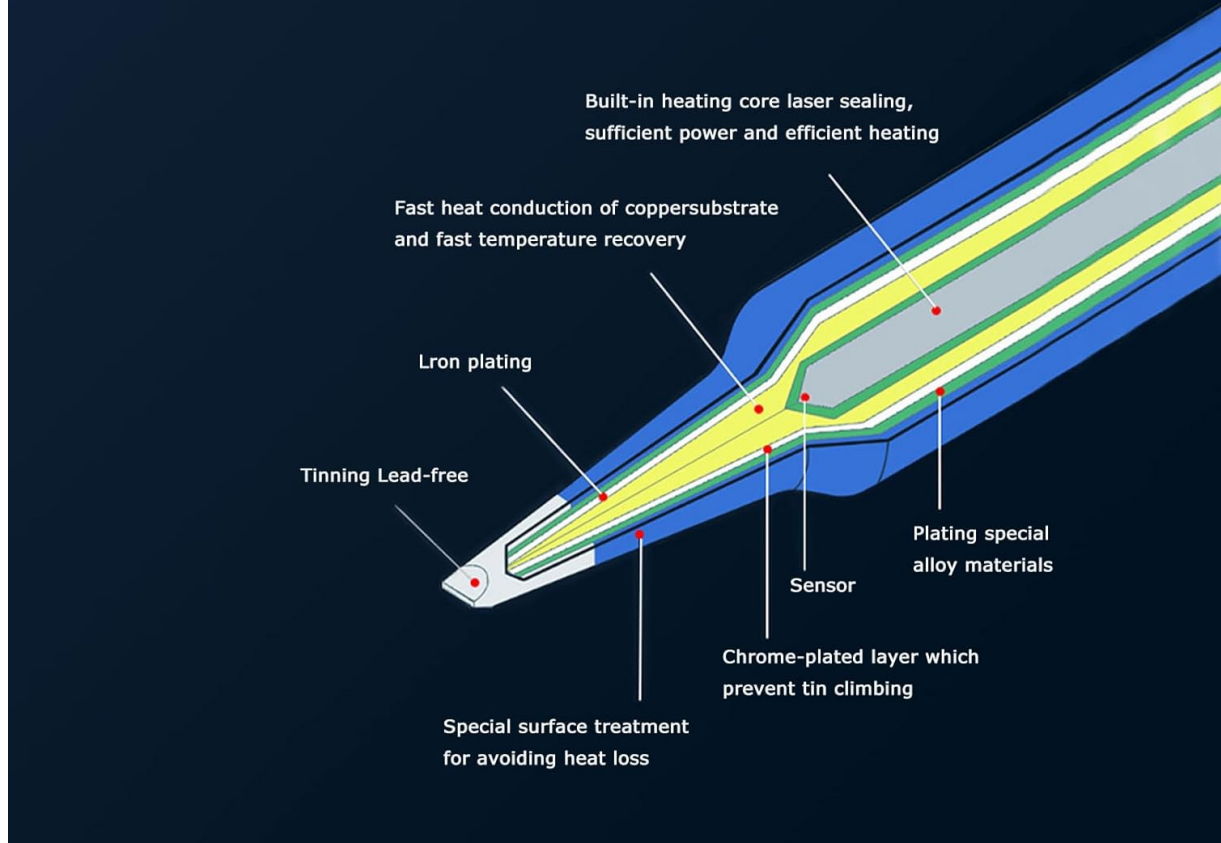


Figure 5: Detailed internal structure of a T12 soldering tip, showing various layers and components contributing to its performance and durability.

TROUBLESHOOTING

If you encounter issues while using your T12 soldering tips, consider the following common problems and solutions:

- **Tip Not Heating:**

- Ensure the tip is fully seated in the handpiece.
- Check if the soldering station is powered on and set to an appropriate temperature.
- Verify compatibility of the tip with your soldering station model.

- **Poor Solder Joints / Solder Not Sticking:**

- Ensure the tip is clean and properly tinned. Oxidation can prevent solder adhesion.
- Increase the soldering station temperature if it's too low for the solder or components.
- Use fresh solder and appropriate flux.

- **Tip Oxidation:**

- Clean the tip frequently with a damp sponge or brass wool.
- Re-tin the tip immediately after cleaning and before storage.
- Avoid leaving the tip at high temperatures for extended periods when not in use.

If you continue to experience issues, please refer to the Customer Support section.

CUSTOMER SUPPORT

For any issues or inquiries regarding your VECO-T T12 Soldering Iron Tips, please do not hesitate to contact our customer support team. We are dedicated to providing excellent assistance.

Please have your product model number (T12) and a description of the issue ready when contacting support.

Contact information is typically available through your purchase platform or the VECO-T official website.