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› [Weller](#) /

› Genuine Weller ETA ETD Combo Pack Tips

Weller ETA ETD

Weller ETA ETD Combo Pack Tips User Manual

Model: ETA ETD

Brand: Weller

INTRODUCTION

This manual provides essential information for the proper use and maintenance of your Genuine Weller ETA and ETD Combo Pack Soldering Tips. These tips are specifically designed to fit the Weller PES51 soldering pencil, ensuring optimal performance and longevity. The tips feature a stainless steel liner in the sensor hole to prevent seizing.



Figure 1: The Weller ETA (pointed) and ETD (chisel) soldering tips. The ETA tip has a fine conical point, while the ETD tip features a broad chisel-like flat end, both designed for precision soldering tasks.

SETUP AND INSTALLATION

Proper installation of the soldering tip is crucial for efficient heat transfer and tip longevity.

1. **Power Off:** Ensure your Weller soldering station is powered off and unplugged before handling the soldering pencil or tips.
2. **Cool Down:** Allow the soldering pencil and any previously installed tip to cool completely to room temperature to prevent burns.
3. **Remove Old Tip (if applicable):** Carefully unscrew or pull out the old tip from the PES51 soldering pencil.
4. **Insert New Tip:** Gently insert the desired ETA (1.60mm conical) or ETD (4.80mm screwdriver) tip into the heating element of the PES51 soldering pencil. Ensure it is fully seated. The stainless steel liner in the tip's sensor hole helps prevent seizing.
5. **Secure:** If your model requires a retaining screw or collar, ensure it is tightened appropriately, but do not overtighten.
6. **Inspect:** Verify the tip is securely in place and properly aligned.

OPERATING INSTRUCTIONS

These tips are designed for precision soldering. Follow these guidelines for optimal performance:

- **Tinning the Tip:** Before first use and periodically during operation, tin the tip by applying a small amount of solder to the heated tip. 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.
- **Application:** The ETA tip (1.60mm conical) is ideal for fine pitch components and detailed work. The ETD tip (4.80mm screwdriver) is suitable for larger pads, wires, and general-purpose soldering requiring more heat transfer area.
- **Contact Time:** Minimize contact time with components to prevent overheating. Apply heat only long enough for the solder to flow properly.
- **Cleaning During Use:** Regularly wipe the tip on a damp sponge or brass wool cleaner to remove excess solder and flux residue.

MAINTENANCE

Proper maintenance extends the life of your soldering tips.

- **Regular Cleaning:** Always clean the tip before returning the iron to its stand. Use a damp cellulose sponge or brass wool. Avoid abrasive materials.
- **Re-tinning:** After cleaning, always re-tin the tip with a fresh coat of solder, especially before storing the iron. This prevents oxidation.
- **Oxidation Prevention:** If the tip becomes oxidized (dark and non-wetting), gently clean it with a tip tinner/activator or fine abrasive paper (very sparingly) and immediately re-tin. Severe oxidation may require tip replacement.
- **Storage:** Store tips in a dry environment. When not in use, ensure they are properly tinned.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tip not heating up.	Poor contact with heating element; soldering station issue.	Ensure tip is fully seated. Check soldering station power and settings.
Solder not wetting the tip.	Tip is oxidized or not properly tinned.	Clean and re-tin the tip. Use tip tinner if necessary.
Tip seizing in pencil.	Buildup of flux/solder residue.	The stainless steel liner helps prevent this. Ensure regular cleaning and proper insertion. If seized, allow to cool completely and gently twist to remove.

SPECIFICATIONS

- **Model:** ETA ETD Combo Pack
- **Compatibility:** Weller PES51 Soldering Pencil
- **ETA Tip Size:** 1.60mm (conical/pointed)
- **ETD Tip Size:** 4.80mm (screwdriver/chisel)

- **Feature:** Sensor hole fitted with stainless steel liner to prevent seizing.
- **Material:** Tinned with Lead-Free Solder
- **Item Weight:** Approximately 0.422 ounces (for the pack)
- **Package Dimensions:** Approximately 4.13 x 3.07 x 0.31 inches

WARRANTY AND SUPPORT

Weller products are known for their quality and durability. For specific warranty information regarding your soldering tips, please refer to the documentation provided with your Weller soldering station or visit the official Weller website. For technical support or inquiries, please contact Weller customer service.

Weller Official Website: www.weller-tools.com

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Question

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

Details

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

Submit question