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› TE CONNECTIVITY / AMP 55823-1 PRO-CRIMPER II HAND TOOL & TERMINAL KIT User Manual

TE Connectivity / AMP 55823-1

PRO-CRIMPER II HAND TOOL & TERMINAL KIT

Model: 55823-1

Brand: TE Connectivity / AMP

1. INTRODUCTION AND PRODUCT OVERVIEW

The TE Connectivity / AMP PRO-CRIMPER II Hand Tool & Terminal Kit, Model 55823-1, is a comprehensive solution designed for reliable electrical connections. This kit includes a high-quality hand crimping tool and an assortment of commonly used electrical terminals, providing everything necessary for various wiring applications. The PRO-CRIMPER II tool is engineered for precision and durability, ensuring consistent and secure crimps for optimal electrical performance.

This manual provides detailed instructions for the proper setup, operation, maintenance, and troubleshooting of your PRO-CRIMPER II Hand Tool and the included terminals.

2. PRODUCT COMPONENTS

The 55823-1 PRO-CRIMPER II Hand Tool & Terminal Kit typically includes the following components:

- **PRO-CRIMPER II Hand Tool:** The primary crimping device with ergonomic grips.
- **Assorted Electrical Terminals:** A variety of insulated terminals, often color-coded (e.g., red, blue, yellow) to indicate wire gauge compatibility. These may include ring terminals, spade terminals, butt connectors, etc.
- **Storage Case:** A durable case designed to organize and protect the tool and terminals.



Image 2.1: The PRO-CRIMPER II Hand Tool and an assortment of terminals neatly organized within its storage case. The case lid displays a guide for terminal types and wire gauges.

3. SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Inspect the hand tool and terminals for any signs of damage during transit.
2. **Familiarization:** Before use, familiarize yourself with the crimping tool's mechanism. Identify the different crimping cavities, which are typically marked for specific wire gauges or terminal types. Refer to any markings on the tool or the case lid for guidance on matching terminals to the correct crimping cavity.
3. **Safety Precautions:**
 - Always wear appropriate personal protective equipment (PPE), such as safety glasses, when working with electrical tools and wires.
 - Ensure the work area is clean, well-lit, and free from obstructions.
 - Never use the tool for purposes other than crimping electrical terminals.

4. OPERATING INSTRUCTIONS

Follow these steps for proper crimping:

1. **Select the Correct Terminal:** Choose a terminal that matches the wire gauge you are using and the application requirements (e.g., ring, spade, butt connector). The terminals in this kit are typically color-coded:
 - **Red:** For 22-18 AWG (American Wire Gauge) wires.
 - **Blue:** For 16-14 AWG wires.
 - **Yellow:** For 12-10 AWG wires.
2. **Strip the Wire:** Using a wire stripper, carefully remove the insulation from the end of the wire. The stripped length should be sufficient to fully insert the conductor into the terminal's barrel without insulation entering the crimp area. Avoid nicking or cutting the wire strands.
3. **Insert Wire into Terminal:** Insert the stripped wire conductor fully into the barrel of the chosen terminal. Ensure all wire strands are contained within the terminal.
4. **Select the Correct Crimping Cavity:** Identify the crimping cavity on the PRO-CRIMPER II tool that corresponds to the color and size of the terminal you are using. The tool's jaws often have markings (e.g., color dots or gauge numbers) to guide this selection.
5. **Position the Terminal:** Place the terminal, with the wire inserted, into the correct crimping cavity. Ensure the terminal is seated properly and the wire is still fully inserted.
6. **Perform the Crimp:** Squeeze the handles of the PRO-CRIMPER II tool firmly and completely until the crimping cycle is finished. The tool's ratcheting mechanism will ensure a full crimp before releasing. Do not release the handles until the crimp is complete.
7. **Inspect the Crimp:** After crimping, remove the terminal from the tool. Visually inspect the crimp for proper formation. The insulation should be securely gripped, and the conductor crimp should be tight and uniform. Gently tug on the wire to ensure it is securely fastened within the terminal. A properly crimped connection should be robust and not allow the wire to pull out.

5. MAINTENANCE

- **Cleaning:** After each use, wipe down the crimping tool with a clean, dry cloth to remove any dirt, dust, or debris. Avoid using harsh chemicals or solvents that could damage the tool's finish or components.
- **Lubrication:** Periodically apply a light coat of machine oil to the pivot points and moving parts of the tool to ensure smooth operation. Do not over-lubricate.
- **Storage:** Store the PRO-CRIMPER II Hand Tool and terminals in their original storage case in a dry, clean environment. This protects them from moisture, dust, and physical damage.
- **Inspection:** Regularly inspect the crimping jaws for wear, damage, or misalignment. If significant wear or damage is observed, the tool may need professional servicing or replacement to ensure continued reliable performance.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor crimp quality (loose wire, deformed terminal)	• Incorrect crimping cavity used. • Wire not fully inserted into terminal. • Insufficient pressure applied during crimp. • Damaged or worn crimping jaws.	• Ensure correct cavity for terminal size/color. • Verify wire is fully inserted before crimping. • Squeeze handles completely until ratchet releases. • Inspect jaws; if damaged, consider tool replacement.
Tool handles stick or do not release	• Lack of lubrication. • Debris in mechanism.	• Apply light machine oil to pivot points. • Clean tool thoroughly.
Wire insulation not gripped properly	• Wire stripped too long or too short. • Incorrect terminal size for wire.	• Adjust wire stripping length. • Use terminal matching wire gauge.

7. SPECIFICATIONS

Attribute	Detail
Brand	TE Connectivity / AMP
Model Number	55823-1

Attribute	Detail
ASIN	B00MEITE4E
Manufacturer	TE Connectivity / AMP Brand
Item Weight	0.01 Ounces (approximately 0.28 grams)
Grip Type	Ergonomic
UPC	013227023479
First Available	October 10, 2013

8. WARRANTY AND SUPPORT

For specific warranty information regarding your TE Connectivity / AMP PRO-CRIMPER II Hand Tool & Terminal Kit, please refer to the documentation provided at the time of purchase or contact TE Connectivity / AMP customer support directly. General product support and technical assistance can be obtained through the manufacturer's official channels. Please visit the official TE Connectivity website for the most up-to-date support resources, FAQs, and contact information.

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

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