

Vigor V2499

Vigor V2499 6-Piece Crimping Pliers Set Instruction Manual

INTRODUCTION

This manual provides instructions for the safe and effective use of the Vigor V2499 6-Piece Crimping Pliers Set. This tool is designed for crimping various electrical terminals and connectors, offering versatility through its interchangeable inserts. Please read this manual thoroughly before operation to ensure proper use and to prevent damage to the tool or injury.

PRODUCT COMPONENTS

The Vigor V2499 Crimping Pliers Set includes the following components:

- 1 x Crimping Pliers Tool
- 5 x Interchangeable Crimping Inserts
- 1 x Plastic Storage Case

SETUP: INSTALLING CRIMPING INSERTS

The Vigor V2499 crimping pliers come with five interchangeable inserts to accommodate different terminal types and wire gauges. Follow these steps to install the correct insert:

1. **Identify the Correct Insert:** Select the appropriate crimping insert based on the type and size of the terminal you intend to crimp. Each insert is marked with its compatible wire gauge or terminal type.
2. **Open the Pliers:** Fully open the crimping pliers to expose the insert slots.
3. **Insert the Dies:** Align the chosen crimping insert with the slots in the pliers' jaws. Ensure the insert is seated correctly and securely. The inserts are designed to fit in a specific orientation.
4. **Secure the Insert:** Ensure the insert is firmly in place before use. Some models may have a locking mechanism or a simple snap-in design.



Image: The Vigor V2499 crimping pliers with several interchangeable crimping inserts displayed, showing how they fit into the tool's jaws.

OPERATING INSTRUCTIONS: CRIMPING PROCESS

Follow these steps for a secure and reliable crimp:

1. **Prepare the Wire:** Strip the insulation from the end of the wire to the appropriate length for your terminal. Ensure the wire strands are clean and untwisted.



Image: A hand holding the Vigor V2499 crimping pliers, preparing to crimp a wire with insulation stripped, showing the wire being inserted into a terminal.

2. **Select the Correct Cavity:** With the appropriate insert installed, identify the correct crimping cavity on the insert that matches the size of your terminal and wire.



Image: A close-up of the Vigor V2499 crimping pliers showing a wire being placed into a specific color-coded crimping cavity on an installed insert.

3. **Insert the Terminal (if applicable):** For some terminals, you may insert the terminal into the crimping cavity first, then the wire. For others, the wire is inserted into the terminal, and then both are placed into the cavity.



Image: A close-up of the Vigor V2499 crimping pliers showing a wire being inserted into a crimping cavity, with the numerical markings for wire gauges visible on the insert.

4. **Insert the Wire:** Place the stripped end of the wire into the terminal, ensuring all strands are within the crimping area. Then, position the terminal and wire assembly into the selected crimping cavity.



Image: A close-up of the Vigor V2499 crimping pliers showing a brown wire positioned within a crimping cavity, with wire gauge markings (0.5, 1.5, 4) visible on the insert.

5. **Perform the Crimp:** Squeeze the handles of the crimping pliers firmly and completely until the ratchet mechanism releases. This ensures a full and consistent crimp.
6. **Inspect the Crimp:** After crimping, remove the terminal and inspect the connection. The crimp should be tight and secure, holding the wire firmly without damaging the insulation or strands.

Examples of Crimped Connections





Image: A yellow insulated ring terminal securely crimped onto a grey wire, showing the exposed copper strands within the terminal.





Image: A red insulated ring terminal securely crimped onto a red wire, showing a clean and tight connection.





Image: A brass spade connector securely crimped onto a black insulated wire, demonstrating a robust electrical connection.





Image: A bare spade terminal crimped onto a brown insulated wire, showing the metal crimp around the wire strands.







Image: A bare spade terminal crimped onto a blue insulated wire, illustrating a strong, uninsulated connection.

MAINTENANCE

To ensure the longevity and optimal performance of your Vigor V2499 crimping pliers, follow these maintenance guidelines:

- **Cleaning:** After each use, wipe down the pliers and inserts with a clean, dry cloth to remove any dirt, dust, or debris.
- **Lubrication:** Periodically apply a light machine oil to the pivot points and moving parts of the pliers to ensure smooth operation.
- **Storage:** Store the crimping pliers and all inserts in the provided plastic case in a dry environment to prevent rust and damage.
- **Inspection:** Regularly inspect the crimping inserts for wear or damage. Replace any worn or damaged inserts to maintain crimp quality.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor Crimp Quality (loose or damaged)	Incorrect insert size for terminal/wire; insufficient pressure applied; worn insert.	Ensure correct insert and cavity are used. Squeeze handles completely until ratchet releases. Replace worn inserts.
Pliers handles stick or are stiff	Lack of lubrication; dirt/debris in mechanism.	Clean pliers and apply light machine oil to pivot points.
Insert does not fit securely	Incorrect orientation; debris in slot.	Ensure insert is correctly aligned. Clean slots.

SPECIFICATIONS

- **Brand:** Vigor
- **Model Number:** V2499
- **Set Name:** 6-Piece Set
- **Item Weight:** 1.13 Kilograms
- **Colour:** Black
- **Handle Material:** Plastic
- **Handle Type:** Ergonomic
- **Size:** 28 cm
- **Specific Uses:** Electrical work, Maintenance

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Vigor V2499 Crimping Pliers Set, please refer to the documentation provided at the point of purchase or contact Vigor customer service directly. Keep your purchase receipt as proof of purchase.