

## LAOA LA324108

# LAOA LA324108 8-in-1 Wire Stripper with Electrical Measurement Function User Manual

Brand: LAOA | Model: LA324108

## 1. INTRODUCTION

Thank you for choosing the LAOA LA324108 8-in-1 Wire Stripper. This versatile tool is designed for electricians and DIY enthusiasts, offering multiple functions including wire stripping, cutting, splitting, winding, pulling, clamping, cable sheath opening, and electrical measurement. This manual provides essential information for safe and effective use of your tool.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions may result in electric shock, fire, or serious injury.**

- This tool is **NOT INSULATED**. Do not use it on live electrical circuits or with live electricity.
- The electrical measurement function is intended for **emergency use only**. It is not a substitute for professional testing equipment.
- When using the electrical measurement function, ensure your hand makes contact with the induction film located at the tail of the handle.
- The head of the sensor for electrical measurement is not insulated. Exercise extreme caution to avoid electric shock.
- **Electrical Measurement Indicators:**
  - Contact with a live wire (fire line): Red and green lights will illuminate, and the horn will sound.
  - Contact with a neutral wire (zero line): Only the green light will illuminate; the horn will not sound.
  - Wireless green light detection indicates presence of voltage.
  - When performing a circuit continuity test, if the circuit is open, the light will not illuminate.
- Note that model LA324107 (7-in-1 wire strippers) does not include the electrical measurement function. This

manual specifically applies to the LA324108 model.

### 3. PRODUCT FEATURES

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The LAOA LA324108 is an 8-in-1 multi-functional tool designed for various electrical tasks. Its robust construction and thoughtful design make it an essential tool for professionals and hobbyists.

- **8-in-1 Functionality:** Permanent electrical line work, peeling (stripping), shearing (cutting), pressing (crimping), dividing, cabling, clamping, and clip holding.
- **Replaceable Blade:** The wire stripper features a replaceable blade for extended tool life and consistent performance.
- **Wire Stripping Capacity:** Suitable for AWG 18, 14, 12, 10, 6 wires, corresponding to 1.0, 1.5, 2.0, 2.5, 4.0 mm<sup>2</sup> cable sizes.
- **Cable Cutting Capacity:** Can cut cables up to 25 mm<sup>2</sup>.
- **Cable Sheath Opening:** Features a built-in sharp skinning knife for opening cable outer sheaths.
- **Wiring Division:** Capable of dividing 2\*1.5 mm<sup>2</sup> cabling.
- **Winding Function:** Includes a brass winding hole specifically designed for multi-stranded wires.
- **Durable Construction:** Made from 3Cr13 stainless steel, offering resistance to rust. The blade undergoes special heat treatment, achieving a hardness of HRC55±2°.
- **Versatile Applications:** Ideal for hydroelectric installations, power grid electricity maintenance, electrical decoration, electron beam work, electrical box production, car wiring, and more.



Figure 1: Overview of the LAOA LA324108 8-in-1 Wire Stripper, illustrating its multiple functions including wire stripping, cutting, splitting, winding, pulling, clamping, and cable sheath opening. The image also highlights the replaceable blade and electrical measurement capability.

## 4. SETUP

The LAOA LA324108 wire stripper is ready for use directly out of the packaging. No assembly is required.

### 4.1 Unpacking and Inspection

- Carefully remove the tool from its packaging.
- Inspect the tool for any signs of damage that may have occurred during shipping.
- Ensure all parts are present and functional.

## 5. OPERATING INSTRUCTIONS

Familiarize yourself with each function before use. Always prioritize safety by ensuring the power is off when working with wires, unless specifically using the electrical measurement function with extreme caution.

## 5.1 Wire Stripping

Use the designated stripping holes on the pliers for precise wire insulation removal.

- Identify the correct stripping hole size for your wire (AWG 18, 14, 12, 10, 6 or 1.0, 1.5, 2.0, 2.5, 4.0 mm<sup>2</sup>).
- Insert the wire into the corresponding hole.
- Gently squeeze the handles and pull the wire to remove the insulation.



Figure 2: The wire stripping function in action, showing a wire being stripped using the appropriately sized notch on the pliers. Specifications for stripping are visible on the tool.

## 5.2 Wire Cutting

The sharp cutting edge allows for clean cuts of various cables.

- Place the cable within the cutting jaws.
- Apply firm pressure to the handles to cut the cable. Maximum cutting capacity is 25 mm<sup>2</sup>.

## 5.3 Cable Sheath Opening (Open Skin)

Utilize the built-in sharp knife for opening the outer sheath of cables.

- Position the cable sheath against the dedicated skinning knife.

- Carefully apply pressure and guide the tool along the cable to open the sheath.



Figure 3: The 'Open Cable' function, demonstrating the use of the built-in sharp skinning knife to precisely open the outer sheath of a multi-core cable.

#### 5.4 Wiring Division (Split Line)

The tool includes a feature for dividing multi-core cables, specifically 2\*1.5 mm<sup>2</sup> cabling.

- Insert the cable into the designated splitting mechanism.
- Apply gentle pressure to separate the cable cores.

# Split Line

Split Sheathed Wire 2\*1.5mm<sup>2</sup>



Figure 4: The 'Split Line' function, illustrating how the tool can precisely divide a sheathed wire, specifically a 2\*1.5mm<sup>2</sup> cable, into individual conductors.

## 5.5 Winding Function

A brass winding hole is provided for neatly winding multi-stranded wires.

- Insert the multi-stranded wire into the brass winding hole.
- Rotate the tool or wire as needed to achieve the desired winding.

# Winding function

Brass winding hole for multi-stranded wires



Figure 5: The winding function, highlighting the brass winding hole used for neatly coiling multi-stranded wires.

## 5.6 Pulling Wire & Clamping

The pliers' jaws are designed for gripping and pulling wires, as well as clamping various materials.

- Use the serrated jaws to firmly grip wires or other small objects.
- Apply pressure to the handles for clamping or pull to manipulate wires.

## 5.7 Electrical Measurement Function (AC/DC 12V-250V)

This function allows for basic voltage detection. **Remember, this is for emergency use only and the tool is not insulated.**

- Ensure your hand is in contact with the induction film at the end of the handle.
- Touch the tip of the pliers to the wire or terminal you wish to test.
- Observe the indicator lights and listen for the horn:
  - Red and green lights with horn: Live wire detected.
  - Green light only: Neutral wire detected.
  - No lights/horn: No voltage or open circuit.



Figure 6: The LAOA LA324108 being used to test a wire, with the green indicator light illuminated, signifying voltage detection. The user's hand is correctly positioned on the induction film.



**contact with firewire**  
Traffic lights are on and horns are blaring

**contact with zero line**  
Green light on, horn won't sound

sense of continuity  
Green light on line through.  
If you can't get through, the light won't come on.

**⚠ Note**

Non-insulated tools, do not work with electricity with a stylus function. Only for emergency use, the palm of your hand must touch the end of the handle. The head of the sensor is not insulated, be careful of electric shock.

Figure 7: A detailed view of the electrical measurement section of the pliers, showing the indicator lights and a summary of the safety warnings regarding non-insulated use and emergency function.



Figure 8: A comprehensive diagram labeling all key functions of the LAOA LA324108, including stripping specifications, cutting capacity, winding, dividing line, open cable, and the AC/DC 12V-250V electrical survey area.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your LAOA LA324108 wire stripper.

### 6.1 Cleaning

- After each use, wipe the tool clean with a dry cloth to remove any dust, dirt, or debris.
- For stubborn grime, use a mild cleaning solution and ensure the tool is thoroughly dried afterwards to prevent rust.

### 6.2 Blade Replacement

The stripping blade is replaceable. If the blade becomes dull or damaged, it can be replaced to restore optimal stripping performance.

- Refer to the product packaging or manufacturer's website for information on obtaining replacement blades.
- Carefully follow the instructions provided with the replacement blade for safe installation.

- Always ensure the tool is clean and dry before attempting blade replacement.

### 6.3 Storage

- Store the tool in a dry environment to prevent corrosion.
- Keep out of reach of children.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your LAOA LA324108 wire stripper.

### 7.1 Electrical Measurement Function Not Working

- **No light/sound when testing a live wire:** Ensure your hand is firmly in contact with the induction film at the handle's tail. The sensor requires body contact to function.
- **Inaccurate readings:** The electrical measurement function is for basic detection. For precise voltage measurements, use a dedicated multimeter.
- **Continuity test light not illuminating:** If testing a circuit for continuity and the green light does not come on, it indicates an open circuit or a break in the connection.

### 7.2 Poor Stripping Performance

- **Wire insulation not cleanly removed:** Ensure you are using the correct stripping hole size for the wire gauge.
- **Wire strands cut during stripping:** This may also indicate an incorrect hole size or a dull blade. Consider replacing the blade if it's worn.

## 8. SPECIFICATIONS

Feature	Specification
Brand	LAOA
Model Number	LA324108
Dimensions (L x W x H)	22 x 8 x 0.1 cm (8.66 x 3.15 x 0.04 inches)
Weight	349.27 grams (0.77 lbs)
Material	Stainless Steel (3Cr13)
Handle Material	Stainless Steel
Handle Type	Ergonomic
Color	Green
Wire Stripping Capacity	AWG 18, 14, 12, 10, 6 (1.0, 1.5, 2.0, 2.5, 4.0 mm <sup>2</sup> )
Cable Cutting Capacity	Up to 25 mm <sup>2</sup>
Wiring Division Capacity	2*1.5 mm <sup>2</sup>
Electrical Measurement Range	AC/DC 12V-250V

Feature	Specification
Blade Hardness	HRC55±2°
Intended Use	Electrical work, testing, and repairs

## 9. WARRANTY AND SUPPORT

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LAOA products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official LAOA website. If you encounter any issues or require technical assistance, please contact LAOA customer support through their official channels.