

Wiha 66994

Wiha 66994 9-Piece Metric Ball End Long Hex L-Key Set

Instruction Manual

1. PRODUCT OVERVIEW

The Wiha 66994 is a 9-piece metric ball end long hex L-key set designed for fastening and unfastening hex screws. This set features L-keys made from Chrome-V-Moly Super Tool Steel with a hard chrome finish, ensuring durability and corrosion resistance. The long arm design provides extended reach and increased leverage, while the ball end allows for driving at angles up to 25 degrees, making it ideal for accessing fasteners in confined spaces.

The set is supplied in a durable plastic holder for convenient storage and organization. Each L-key is precisely manufactured to ensure a secure fit and prevent stripping of fasteners.



Image 1: The complete Wiha 66994 9-Piece Metric Ball End Long Hex L-Key Set in its plastic storage holder, displaying all nine L-keys with their sizes clearly marked on the holder.

Set Contents:

- 1.5mm x 90mm
- 2.0mm x 99mm
- 2.5mm x 111mm
- 3.0mm x 125mm
- 4.0mm x 138mm
- 5.0mm x 158mm
- 6.0mm x 178mm
- 8.0mm x 198mm
- 10.0mm x 221mm

2. SETUP

The Wiha 66994 L-key set comes pre-organized in a plastic holder. No assembly is required for the L-keys themselves.

Initial Use:

1. Carefully remove the desired L-key from its designated slot in the plastic holder. The holder is designed to securely hold each key while allowing for easy removal.
2. After use, return the L-key to its correct size slot to maintain organization and prevent loss.

3. OPERATING INSTRUCTIONS

Using the Wiha hex L-keys effectively requires selecting the correct size and applying proper technique.

Selecting the Correct Size:

- Identify the size of the hex screw you intend to work with.
- Select the corresponding L-key from the set. A snug fit is crucial to prevent damage to both the fastener and the tool.

Using the L-Key:

1. **Standard Hex End:** For maximum torque and to prevent rounding, fully insert the straight hex end of the L-key into the fastener head. Apply rotational force evenly.
2. **Ball End Feature:** The ball end allows for engagement with the fastener at an angle of up to 25 degrees. This is particularly useful in situations where direct alignment is not possible. Insert the ball end into the fastener head and rotate. *Note: While convenient for angled access, the ball end is not designed for applying maximum torque. For final tightening or initial loosening of stubborn fasteners, use the straight hex end.*



Image 2: A single Wiha Metric Ball End Long Hex L-Key, illustrating its long arm and the distinct ball end designed for angled access to fasteners.

Torque Application:

- Apply steady and controlled force. Avoid sudden jerking motions.
- For fasteners requiring specific torque values, use a torque wrench with an appropriate hex bit. These L-keys are hand tools and do not provide precise torque measurement.
- The long arm provides significant leverage. Be mindful not to over-tighten fasteners, which can lead to stripping or damage.

4. MAINTENANCE

Proper maintenance will extend the life and performance of your Wiha L-key set.

Cleaning:

- After each use, wipe down the L-keys with a clean, dry cloth to remove dirt, grease, or debris.
- For stubborn grime, a mild degreaser or solvent can be used, followed by thorough drying.
- Avoid abrasive cleaners or materials that could damage the hard chrome finish.

Storage:

- Always store the L-keys in their original plastic holder. This keeps them organized and protected from damage.
- Store the set in a dry environment to prevent rust, especially in humid conditions.

Inspection:

- Periodically inspect each L-key for signs of wear, such as rounded edges on the hex tips or bends in the shaft.
- If an L-key shows significant wear or damage, it should be replaced to prevent damage to fasteners.

5. TROUBLESHOOTING

While Wiha tools are designed for durability, issues can arise from improper use or extreme conditions.

Common Issues and Solutions:

- **Rounded Fastener Head:**
Cause: Using the wrong size L-key, not fully inserting the L-key, or applying excessive or uneven torque.
Solution: Always ensure the L-key is fully seated in the fastener head. Use the correct size. For stubborn fasteners, apply steady, increasing pressure. If the fastener is already rounded, specialized extraction tools may be required.
- **Bent or Twisted L-Key:**
Cause: Applying excessive force beyond the tool's design limits, especially when trying to loosen seized fasteners.
Solution: Avoid using L-keys as pry bars or with extensions that significantly increase leverage beyond reasonable limits. For extremely tight fasteners, consider using penetrating oil or professional assistance. Replace any bent or twisted L-keys immediately.
- **L-Key Slipping in Fastener:**
Cause: Incorrect L-key size, worn L-key tip, or damaged fastener head.
Solution: Verify the L-key size matches the fastener. Inspect the L-key tip for wear; if rounded, replace it. Inspect the fastener head for damage; if damaged, it may need to be replaced or extracted.

6. SPECIFICATIONS

Attribute	Detail
Model Number	66994
Brand	Wiha
Set Type	9-Piece Metric Ball End Long Hex L-Key Set
Material	Chrome-V-Moly Super Tool Steel
Finish	Hard Chrome
Head Style	Hex (with Ball End)
Item Weight	0.98 Pounds (approx. 15.7 ounces)
Item Length	9.5 Inches (longest key)
Product Dimensions	1 x 4.5 x 9.5 inches (packaging)
UPC	084705669946
ASIN	B002S0O7TK
Manufacturer	WIHA
Date First Available	October 22, 2009

7. WARRANTY INFORMATION

Specific warranty terms for the Wiha 66994 9-Piece Metric Ball End Long Hex L-Key Set are provided by the manufacturer. For detailed information regarding warranty coverage, duration, and claims procedures, please refer to the official Wiha website or the documentation included with your product packaging.

It is recommended to retain your proof of purchase for any warranty claims.

8. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your Wiha 66994 L-key set, please contact Wiha customer service directly.

You can typically find contact information, FAQs, and additional product resources on the official Wiha website:

[Visit Wiha Official Website](#)

Please have your product model number (66994) and purchase details ready when contacting support.

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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.

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