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› ELEAD 31-Piece Hex Key Set User Manual - SAE and Metric (Model ED70010)

ELEAD ED70010

ELEAD 31-Piece Hex Key Set User Manual

MODEL: ED70010 - SAE AND METRIC ALLEN KEYS

1. Introduction

This manual provides comprehensive instructions for the safe and effective use of your ELEAD 31-Piece Hex Key Set. This set includes a wide range of both SAE (inch) and Metric (millimeter) hex keys, designed for fastening and unfastening hexagon socket screws. Crafted from heat-treated alloy steel with a black-oxide finish, these tools offer durability and strength for various applications.



Image 1.1: The ELEAD 31-Piece Hex Key Set, showcasing the full collection of SAE and Metric keys along with the included torque handle.

2. Product Components

Your ELEAD 31-Piece Hex Key Set includes the following components:

- **15 Long Reach Hex Keys:** For applications requiring extended reach or leverage.
- **15 High Leverage Short Hex Keys:** Ideal for tight spaces or when precise control is needed.
- **1 Torque Handle:** Designed to provide additional force and improved grip for stubborn fasteners.
- **1 Durable Carrying Case:** For organized storage and easy transport of all hex keys.



Image 2.1: A single hex key, highlighting its robust construction and black-oxide finish.

3. Specifications

Detailed specifications for the ELEAD 31-Piece Hex Key Set:

Feature	Detail
Brand	ELEAD
Model Number	ED70010
Material	Heat-treated Alloy Steel
Finish	Black-oxide (Powder Coated)
Head Style	Hex
Number of Pieces	31 (15 SAE, 15 Metric, 1 Torque Handle)

Feature	Detail
SAE Sizes	0.028", 0.035", 0.05", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"
Metric Sizes	0.7mm, 0.9mm, 1.3mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 10mm
Item Weight	961 Grams (approximately 2.12 pounds)
Package Dimensions	8.58 x 6.22 x 2.17 inches



Image 3.1: Product dimensions of the hex key set case.

15-PIECE METRIC SIZES



10mm
8mm
7mm
6mm
5.5mm
5mm
4.5mm
4mm
3mm
2.5mm
2mm
1.5mm
1.3mm
0.9mm
0.7mm

Image 3.2: The 15-piece Metric hex key sizes.

15-PIECE SAE SIZES



3/8"
5/16"
1/4"
7/32"
3/16"
5/32"
9/64"
1/8"
7/64"
3/32"
5/64"
1/16"
1/20"
7/200"
7/250"

Image 3.3: The 15-piece SAE hex key sizes.

4. Setup and Organization

The ELEAD Hex Key Set is designed for easy organization and quick access. Each hex key has a dedicated slot within the durable carrying case, and sizes are clearly marked for identification.

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Initial Inspection:** Verify that all 31 pieces (15 SAE keys, 15 Metric keys, 1 torque handle) are present and undamaged.
3. **Storage:** Always return hex keys to their designated slots in the carrying case after use. The high-visibility size markings on the case facilitate quick selection and proper storage, preventing loss and maintaining organization.



31 PIECES ALLEN KEY HEX SET



The best choice for your tool gift

Image 4.1: The hex key set within its organized carrying case.

5. Operating Instructions

Follow these guidelines for effective and safe use of your hex key set:

1. Selecting the Correct Size:

Identify the correct hex key size (SAE or Metric) that precisely fits the fastener's socket. Using an incorrect size can strip the fastener or damage the hex key.

2. Inserting the Hex Key:

Insert the hex key fully into the fastener's socket. Ensure a snug fit to prevent slippage during operation.

3. Applying Torque:

For general fastening or loosening, use the long arm of the hex key for increased leverage. For applications in confined spaces or when finer control is required, utilize the short arm.

4. Using the Torque Handle:

The included torque handle can be attached to the hex key for enhanced grip and to apply additional force. This is particularly useful for stubborn fasteners or when extra reach is needed. Insert the short end of a hex key into the handle's opening and secure it firmly.



Image 5.1: Demonstration of using the torque handle with a hex key.

5. Fastening and Loosening:

Turn the hex key clockwise to tighten fasteners and counter-clockwise to loosen them. Apply steady, even pressure to avoid stripping the fastener head.

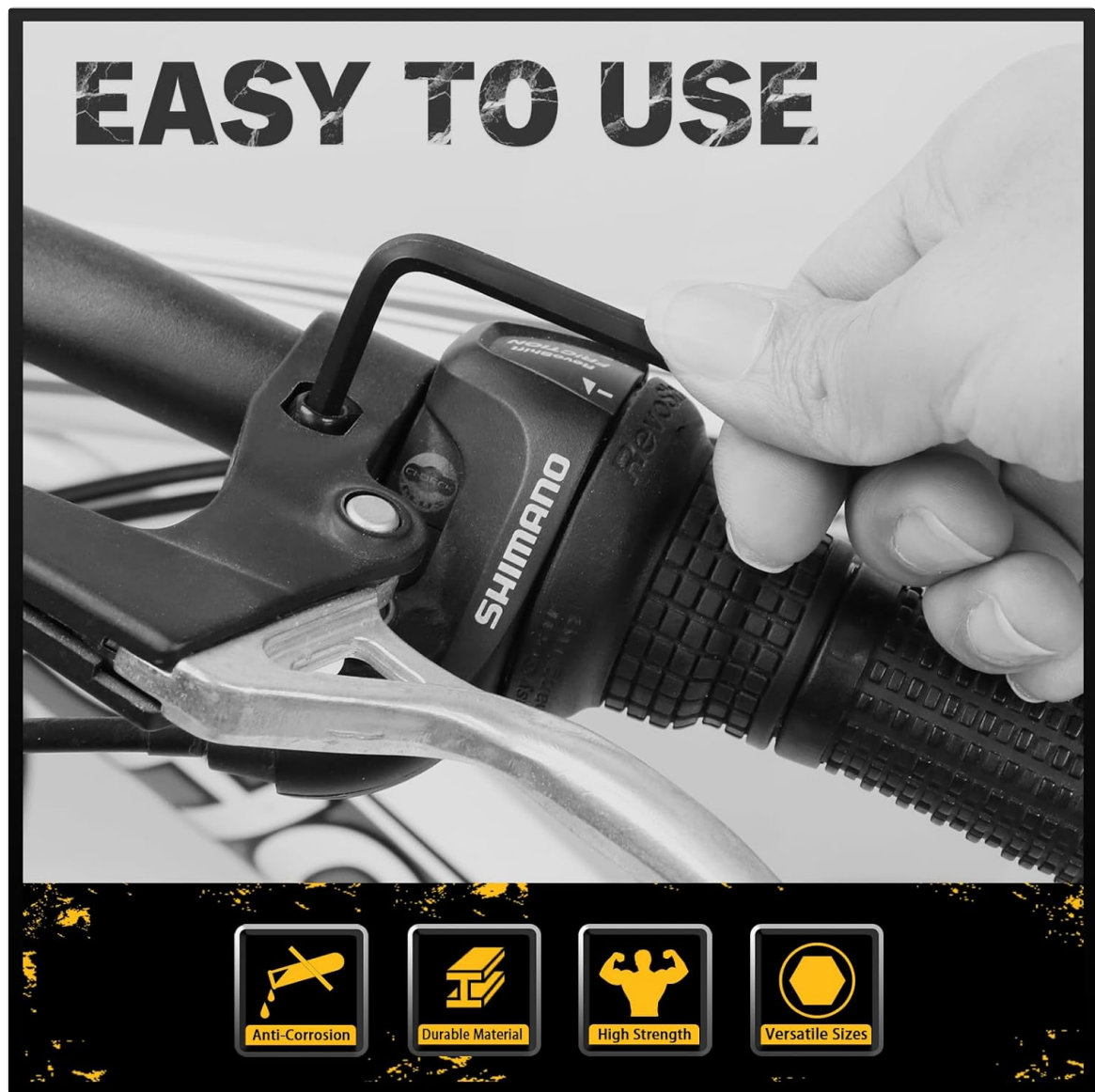


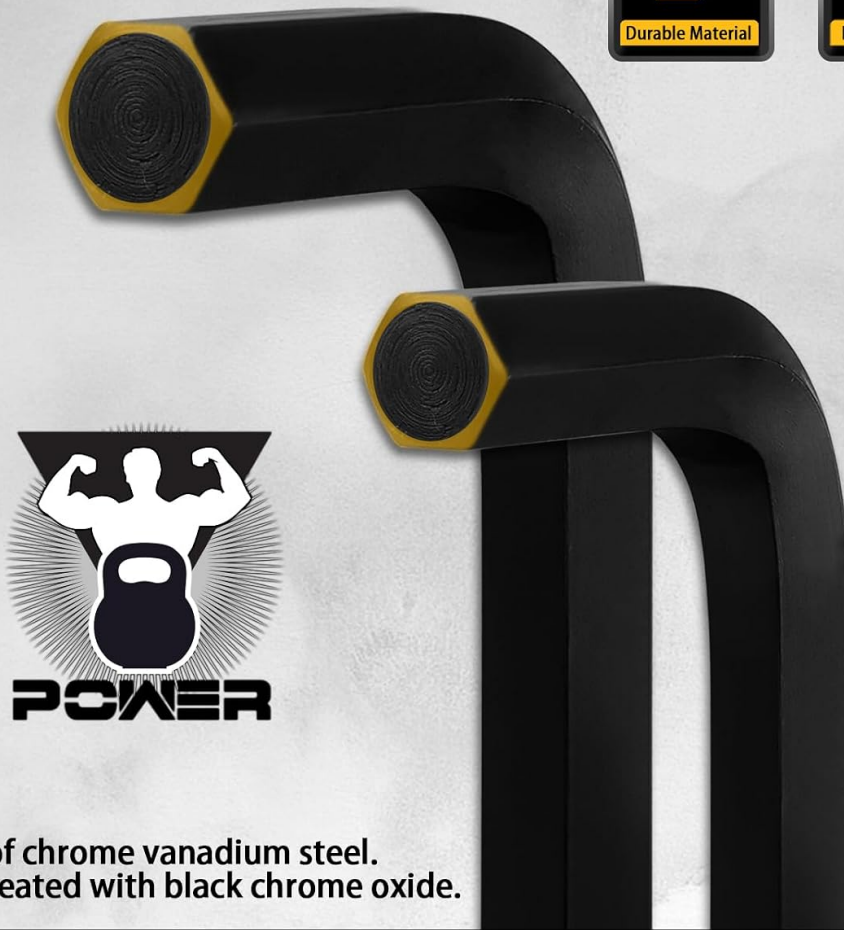
Image 5.2: Example of hex key application on a bicycle component.

6. Maintenance

Proper maintenance ensures the longevity and performance of your hex key set:

- **Cleaning:** After each use, wipe the hex keys clean with a dry cloth to remove dirt, grease, or debris. Avoid using harsh chemicals that could damage the finish.
- **Storage:** Always store the hex keys in their original carrying case in a dry environment. This protects them from moisture, rust, and physical damage.
- **Inspection:** Periodically inspect each hex key for signs of wear, bending, or corrosion. Replace any damaged keys to prevent injury or damage to fasteners.

STRONG & DURABLE



Made of chrome vanadium steel.
Heat-treated with black chrome oxide.

Image 6.1: Illustration of the hex keys' durable material.

7. Troubleshooting

Refer to the following common issues and their solutions:

- **Hex Key Slipping:**

Ensure you are using the correct size hex key for the fastener. The key should fit snugly without play. Apply firm, consistent pressure while turning.

- **Fastener Head Stripped:**

If a fastener head is stripped, the hex key will no longer grip. Specialized tools for stripped screws may be required. Prevent this by always using the correct size key and avoiding excessive force.

- **Difficulty Removing a Key from the Case:**

Some keys, especially smaller ones, may fit tightly. Gently wiggle the key while pulling upwards. Ensure the case is placed on a flat, stable surface.

8. Safety Information

Always observe the following safety precautions when using hand tools:

- Wear appropriate personal protective equipment, such as eye protection, to guard against flying debris.
- Do not use hex keys that are bent, worn, or damaged. Damaged tools can slip and cause injury or further damage.
- Do not use hex keys as pry bars or chisels. They are designed for specific fastening tasks.
- Avoid over-tightening fasteners, which can strip threads or break the fastener or tool.
- Keep tools out of reach of children and pets.
- Ensure your work area is well-lit and stable.

9. Warranty and Support

For warranty information, product support, or inquiries regarding your ELEAD 31-Piece Hex Key Set, please contact the manufacturer directly. Refer to the product packaging or the official ELEAD website for the most current contact details.

You can visit the official ELEAD store for more information and products: [ELEAD Store on Amazon](#).

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