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## KNIPEX 8751250

# KNIPEX Cobra Extra-Slim (ES) Water Pump Pliers Instruction Manual

Brand: KNIPEX | Model: 8751250

## 1. INTRODUCTION

The KNIPEX Cobra Extra-Slim (ES) Water Pump Pliers, model 8751250, are designed for efficient gripping and holding in various applications, particularly in confined spaces. This 10-inch tool features a push-button for automatic adjustment and a robust box-joint design for stability. The long, narrow jaws provide excellent access and gripping depth. This manual provides instructions for the safe and effective use, maintenance, and care of your pliers.

## 2. KEY FEATURES

- Extra-Slim Design:** Long, narrow jaws and a slim head and joint area for superior access in confined spaces.
- Push-Button Adjustment:** One-handed fine adjustment directly on the workpiece with 19 positions for various sizes.
- Self-Locking:** Firm grip on pipes and nuts, preventing slipping and reducing effort.
- Hardened Gripping Surfaces:** Teeth are specially hardened to approximately 61 HRC for secure, wear-resistant grip.
- Box-Joint Design:** High stability due to double guide.
- Pinch Guard:** Integrated guard prevents accidental pinching of the user's fingers.
- Plastic Coated Handles:** Non-slip handles for comfortable and secure operation.

## 3. SETUP AND INITIAL INSPECTION

Before first use, inspect the pliers for any signs of damage or manufacturing defects. Ensure the jaws open and close smoothly and that the push-button adjustment mechanism operates freely. The handles should be securely attached and free from cracks or damage. No assembly is required for these pliers.



Figure 3.1: Overview of the KNIPEX Cobra Extra-Slim Water Pump Pliers in a closed position.

## 4. OPERATING INSTRUCTIONS

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### 4.1. Adjusting the Jaw Opening

- 1. Press the Push Button:** Locate the push button on the joint of the pliers. Press and hold this button.
- 2. Open or Close Jaws:** While holding the button, slide the upper handle to adjust the jaw opening to the desired size.
- 3. Release Button:** Release the push button once the jaws are set to the approximate size of the workpiece. The pliers will lock into one of the 19 adjustment positions.
- 4. Fine Adjustment:** Place the upper jaw onto the workpiece, then slide the lower handle until the jaws securely grip the workpiece. The self-locking mechanism will engage, providing a firm grip without requiring constant pressure on the handles.



Figure 4.1: Detail of the push-button for quick and precise jaw adjustment.

## 4.2. Gripping Workpieces

The unique jaw design allows for a three-point contact on flat, round, or hexagonal materials, ensuring a secure grip. The self-locking feature means the pliers will hold firmly once adjusted, reducing hand fatigue.

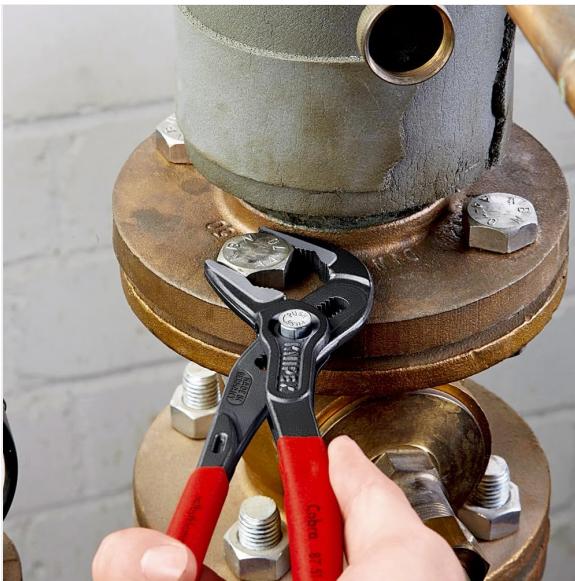


Figure 4.2: Pliers gripping a hexagonal nut securely.



Figure 4.3: Pliers gripping a round pipe with a firm hold.

The extra-slim head and joint area are particularly beneficial for reaching fasteners in tight spaces, such as automotive engine compartments or plumbing installations.



Figure 4.4: Pliers used to grip a pipe fitting in a restricted area.

## 5. MAINTENANCE

- **Cleaning:** After each use, wipe the pliers clean with a dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild solvent can be used, ensuring it does not damage the handle material.
- **Lubrication:** Periodically apply a light machine oil to the joint and adjustment mechanism to ensure smooth operation and prevent corrosion.
- **Storage:** Store the pliers in a dry environment to prevent rust. Keep them away from corrosive chemicals.
- **Inspection:** Regularly check the gripping teeth for wear. While the teeth are hardened for durability, excessive wear can reduce gripping effectiveness.

## 6. TROUBLESHOOTING

- **Difficulty Adjusting Jaws:** If the push-button mechanism feels stiff, clean the joint area thoroughly and apply a light lubricant. Ensure no debris is obstructing the mechanism.
- **Pliers Slipping on Workpiece:** Ensure the jaws are properly adjusted to the workpiece size. The self-locking feature relies on correct adjustment. Check the gripping teeth for excessive wear or damage.
- **Rust Formation:** If rust appears, clean it with a rust remover and then lubricate the affected areas. Prevent future rust by storing the pliers in a dry place and applying a protective oil coating periodically.

## 7. SPECIFICATIONS

Specification	Detail
Model Number	8751250
Length	250 mm (10 inches)
Weight	327 g
Material	High-grade chrome vanadium electric steel, oil-hardened
Handle Material	Plastic coated (non-slip)
Adjustment Positions	19
Pipe Capacity	1 1/4 inches (32 mm)
Nut Capacity	36 mm
Jaw Hardness	Approx. 61 HRC
Certification	DIN ISO 8976

## 8. WARRANTY AND SUPPORT

KNIPEX tools are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty documentation included with your purchase or visit the official KNIPEX website. For technical support or service inquiries, please contact KNIPEX customer service directly. Keep your proof of purchase for warranty claims.

Official KNIPEX Website: [www.knipex.com](http://www.knipex.com)

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