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Kobalt 86759

Kobalt 19-Piece 3/8-Inch Drive Mechanic's Tool Set

Model: 86759

Brand: Kobalt

Introduction

This manual provides detailed instructions for the proper use, care, and maintenance of your Kobalt 19-Piece 3/8-Inch Drive Mechanic's Tool Set. This set is designed for various mechanical tasks, offering a comprehensive selection of metric sockets and essential drive tools. Adhering to these guidelines will ensure the longevity and optimal performance of your tools.

Components Overview

The Kobalt 19-Piece 3/8-Inch Drive Mechanic's Tool Set includes the following components, organized within a durable blow-molded case for convenient storage and transport:

- **16 Metric Sockets:** A selection of commonly used shallow and deep metric sockets. Sizes include 10mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, and 18mm.
- **1 Quick Release Ratchet:** A 3/8-inch drive ratchet with a fine 90-tooth design, providing 4° of arc swing for precise work in confined spaces. Features a quick-release button for easy socket changes.
- **1 Extension Bar:** Used to extend the reach of the ratchet and sockets, allowing access to fasteners in recessed areas.
- **1 Universal Joint:** Provides angular flexibility, enabling the ratchet and socket to operate at an angle to the fastener.



Image: All components of the Kobalt 19-Piece Mechanic's Tool Set, including the ratchet, extension, universal joint, and various metric sockets, displayed outside their case.



Image: The Kobalt 19-Piece Mechanic's Tool Set neatly organized within its blue and black blow-molded hard case, demonstrating its storage and transport design.

Setup and Preparation

The Kobalt 19-Piece Mechanic's Tool Set requires minimal setup. Upon receiving the set, ensure all components are present and in good condition.

1. **Unpack:** Carefully open the blow-molded case and remove all tools.
2. **Inspect:** Check each tool for any signs of damage or manufacturing defects. The tools are constructed of chrome vanadium steel with a professional-grade, high-polish finish.
3. **Familiarize:** Identify each component: the ratchet, extension bar, universal joint, and the various metric sockets (10mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm). Note the shallow and deep socket variations.



Image: A detailed view of the Kobalt 19-Piece Mechanic's Tool Set, showcasing the polished chrome finish of the ratchet, extension, universal joint, and various metric sockets.

Operating Instructions

This section outlines the basic operation of the tools within the set.

Using the Ratchet and Sockets:

1. **Select Socket:** Choose the correct metric socket size (e.g., 10mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm) that precisely fits the fastener you intend to turn. Using the wrong size can damage the fastener or the socket.
2. **Attach Socket:** Press the quick-release button on the ratchet head and firmly push the selected socket onto the 3/8-inch square drive of the ratchet until it clicks into place. Release the button to secure the socket.
3. **Direction Control:** Locate the directional switch on the ratchet head. Flip it to the desired direction for tightening (clockwise) or loosening (counter-clockwise) the fastener.
4. **Apply Torque:** Place the socket onto the fastener. Apply steady, even pressure to the ratchet handle to turn the fastener. The 90-tooth design allows for small arc swings (4°) in tight spaces.
5. **Remove Socket:** To remove the socket, press the quick-release button and pull the socket off the ratchet.

Using the Extension Bar:

The extension bar is used to reach fasteners that are otherwise inaccessible due to depth or obstruction.

1. **Attach Extension:** Connect the extension bar to the ratchet's square drive, similar to attaching a socket.
2. **Attach Socket to Extension:** Attach the desired socket to the other end of the extension bar.
3. **Operate:** Use the assembly as you would a standard ratchet and socket, benefiting from the extended reach.

Using the Universal Joint:

The universal joint allows the ratchet and socket to operate at an angle, useful for fasteners that are not directly in line with the ratchet handle.

1. **Attach Universal Joint:** Connect the universal joint to the ratchet's square drive.
2. **Attach Socket to Universal Joint:** Attach the desired socket to the other end of the universal joint.
3. **Angle and Operate:** Position the universal joint to achieve the necessary angle for accessing the fastener. Apply torque carefully, as excessive angle can reduce efficiency and potentially damage the joint or fastener.

Care and Maintenance

Proper care and maintenance will extend the life of your Kobalt tool set.

- **Cleaning:** After each use, wipe down tools with a clean, dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light coat of machine oil to the ratchet mechanism to ensure smooth operation. Avoid over-lubricating.
- **Storage:** Always store the tools in their original blow-molded case. This protects them from dust, moisture, and impact, and keeps them organized. Store the case in a dry environment.
- **Inspection:** Regularly inspect tools for wear, cracks, or damage. Do not use damaged tools, as they can be unsafe and ineffective.
- **Corrosion Prevention:** The tools are made of chrome vanadium steel with a high-polish finish, offering good corrosion resistance. However, avoid prolonged exposure to moisture or corrosive substances.

Troubleshooting

Most issues with hand tools are related to improper use or maintenance. Here are some common points:

- **Socket Slipping:** Ensure the correct socket size is used for the fastener. Verify the socket is fully engaged on the ratchet or extension.
- **Ratchet Not Engaging:** Check the directional switch on the ratchet head to ensure it is fully engaged in either the tightening or loosening position. If the mechanism feels stiff, a small amount of lubricant may be needed.
- **Difficulty Removing Socket:** Ensure the quick-release button on the ratchet is fully depressed when attempting to remove a socket.
- **Tool Damage:** Avoid using tools beyond their intended capacity or for purposes they were not designed for (e.g., using a ratchet as a hammer). This can lead to bending, breaking, or cracking.

If you encounter persistent issues not covered here, refer to the warranty and support section for assistance.

Specifications

Brand	Kobalt
Model Number	86759

Item Weight	3.88 Pounds
Product Dimensions	7.9 x 5.1 x 3.1 inches
Material	Chrome Vanadium Steel
Finish Type	Powder Coated, High-Polish
Color	Silver
Number of Pieces	19
Drive Size	3/8-Inch
Ratchet Teeth Count	90-tooth
Socket Sizes (Metric)	10mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm (shallow and deep)
UPC	099198867595

Warranty and Support

For specific warranty details and customer support regarding your Kobalt 19-Piece 3/8-Inch Drive Mechanic's Tool Set, please refer to the documentation included with your purchase or visit the official Kobalt website. Kobalt tools are generally known for their robust construction and often come with a manufacturer's warranty against defects in materials and workmanship.
For technical assistance, replacement parts, or warranty claims, please contact Kobalt customer service through their official channels. Keep your purchase receipt as proof of purchase.

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