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> [CRAFTSMAN 230-Piece Mechanics Tool Set \(Model 50230\) Instruction Manual](#)

CRAFTSMAN 50230

CRAFTSMAN 230-Piece Mechanics Tool Set (Model 50230) Instruction Manual

Your comprehensive guide to using and maintaining your CRAFTSMAN tool set.

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1. INTRODUCTION

Thank you for choosing the CRAFTSMAN 230-Piece Mechanics Tool Set, Model 50230. This comprehensive tool set is designed to meet a wide range of mechanical and household needs, providing durability and versatility for various tasks. Crafted from alloy steel with a silver finish, these tools are built for reliability and performance. This manual provides essential information on the components, proper usage, maintenance, and care of your new tool set.



Figure 1: The complete CRAFTSMAN 230-Piece Mechanics Tool Set, Model 50230, showcasing its extensive range of tools neatly organized within its durable carrying case.

2. COMPONENTS & SETUP

The CRAFTSMAN 230-Piece Mechanics Tool Set includes a wide array of tools designed for various applications. All components are organized within a durable carrying case for easy transport and storage.

2.1. Set Contents Overview

- **Drive Tools:** The set features tools for 1/4-inch, 3/8-inch, and 1/2-inch drive sizes, ensuring compatibility with a broad spectrum of fasteners.
- **Sockets:** Includes 116 sockets in both standard (SAE) and metric sizes, encompassing shallow and deep configurations for enhanced accessibility.
- **Ratchets:** Three different sized ratchets are provided for efficient fastening and loosening.
- **Extension Bars:** Two extension bars are included to reach fasteners in confined spaces.
- **Combination Wrenches:** Six combination wrenches are supplied in both standard and metric measurements.

- **Screwdriver Bits:** A selection of 50 screwdriver bits covers various screw types and sizes.
- **Nut Driver Bits:** 12 nut driver bits are included for specific nut fastening tasks.
- **Hex Keys:** 40 hex keys are provided for hexagonal fasteners.
- **Universal Joints:** For angled access to fasteners.

2.2. Initial Setup

Upon receiving your tool set, inspect all components for any signs of damage. Familiarize yourself with the layout of the tools within the carrying case. Each tool has a designated slot to ensure proper organization and quick identification. The case is designed to keep tools securely in place, though smaller items like hex keys may be packaged separately to prevent displacement during transit.



Figure 2: A detailed view of the sockets, ratchets, and screwdriver bits, highlighting the variety of sizes and types available in the set.

3. OPERATING INSTRUCTIONS

Proper use of tools ensures safety and efficiency. Always select the correct tool for the job to prevent damage to the fastener or the tool itself.

3.1. General Safety Guidelines

- Always wear appropriate personal protective equipment (PPE), such as safety glasses, when using hand tools.
- Ensure the workpiece is stable and secured before applying force with any tool.
- Never use a tool that is damaged or worn. Replace or repair it immediately.
- Do not use extension bars or "cheater bars" on ratchets unless specifically designed for such use, as this can damage the ratchet mechanism.

- Keep hands and fingers clear of moving parts and pinch points.

3.2. Using Sockets and Ratchets

1. **Select Correct Size:** Choose a socket that precisely fits the fastener (bolt or nut). Using an ill-fitting socket can strip the fastener.
2. **Attach to Ratchet:** Securely attach the selected socket to the appropriate drive-size ratchet. For hard-to-reach areas, use an extension bar or universal joint.
3. **Apply Force:** Position the ratchet firmly on the fastener. Turn the ratchet handle in the desired direction (clockwise for tightening, counter-clockwise for loosening). Ensure a steady and controlled force.
4. **Deep Sockets:** Utilize deep sockets for fasteners with extended threads or when clearance is needed around the fastener head.

3.3. Using Combination Wrenches

Combination wrenches offer both an open-end and a box-end for the same size. The box-end provides a more secure grip and is less likely to slip, making it ideal for breaking loose or final tightening of fasteners. The open-end is useful for quick turns or when access is limited.

3.4. Using Screwdriver and Hex Bits

The magnetic handle screwdriver allows for quick interchange of various screwdriver and nut driver bits. Select the bit that matches the fastener head exactly. For hex fasteners, use the appropriate hex key from the set.

4. MAINTENANCE

Regular maintenance extends the life of your tools and ensures their optimal performance.

- **Cleaning:** After each use, wipe down tools with a clean, dry cloth to remove dirt, grease, and moisture. For stubborn grime, use a mild degreaser and then wipe dry.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts of ratchets and adjustable wrenches to ensure smooth operation and prevent rust.
- **Storage:** Always return tools to their designated slots in the carrying case. This prevents loss, keeps them organized, and protects them from damage. Store the case in a dry environment to prevent corrosion.
- **Inspection:** Before each use, inspect tools for any signs of wear, cracks, or damage. Pay close attention to the teeth of ratchets and the jaws of wrenches.

5. TROUBLESHOOTING

Here are solutions to common issues encountered when using hand tools:

- **Stripped Fastener:** If a fastener head is stripping, stop immediately. Try using a 6-point socket (if you were using a 12-point) or a specialized fastener extractor. Ensure the socket is fully seated.
- **Stuck Fastener:** For stubborn fasteners, apply penetrating oil and allow it to soak. Use a breaker bar or a larger ratchet for increased leverage. Ensure you are turning in the correct direction (lefty-loosey,

righty-tighty).

- **Ratchets Slipping:** If a ratchet mechanism is slipping, it may be worn or dirty. Clean and lubricate the internal mechanism. If slipping persists, the ratchet may need repair or replacement.
- **Lost Small Bits/Sockets:** The carrying case is designed to hold tools securely. If small bits or sockets frequently fall out, ensure they are correctly seated in their designated spots. Consider adding a thin layer of foam or cardboard over the tools when closing the case for extra security during transport.

6. SPECIFICATIONS

Feature	Detail
Brand	CRAFTSMAN
Model Number	50230
Total Pieces	230
Material	Alloy Steel
Finish Type	Powder Coated (Silver)
Drive Sizes	1/4 inch, 3/8 inch, 1/2 inch
Socket Types	Shallow, Deep (SAE & Metric)
Item Length	17.7 Inches
Item Weight	23.2 Pounds
Head Style	Box End (for wrenches)
Operation Mode	Mechanical
UPC	099575352300, 745332769590, 043906992659, 785971448470, 794348426003, 749933395981

7. WARRANTY & SUPPORT

7.1. CRAFTSMAN Lifetime Warranty

CRAFTSMAN stands behind the quality of its tools. This Mechanics Tool Set is backed by a **Lifetime Warranty**. In the event of a defect in material or workmanship, CRAFTSMAN will replace the defective tool free of charge. Please refer to the official CRAFTSMAN website or contact customer service for full warranty details and procedures.

7.2. Customer Support

For any questions, concerns, or assistance with your CRAFTSMAN 230-Piece Mechanics Tool Set, please contact CRAFTSMAN customer support. You can typically find contact information on the product packaging or the official CRAFTSMAN website. Online resources, including FAQs and product guides, may also be available.

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For the latest product information and support, please visit the official [CRAFTSMAN Store](#).