

CRAFTSMAN 50450

CRAFTSMAN 450-Piece Mechanic's Tool Set Instruction Manual

Model: 50450

Brand: CRAFTSMAN

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your CRAFTSMAN 450-Piece Mechanic's Tool Set, Model 50450. This comprehensive set is designed to facilitate a wide range of mechanical tasks, from automotive repairs to general household maintenance. Please read this manual thoroughly before using the tools and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions when using hand tools:

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, as required by the task.
- Ensure tools are clean and in good working condition before use. Inspect for any damage or wear.
- Use the correct tool for the job. Do not force a tool that is too small or inappropriate for the task.
- Keep your work area clean, well-lit, and free from clutter to prevent accidents.
- Store tools securely in their case when not in use to prevent loss or damage and to keep them out of reach of children.
- Do not modify tools. Use them only for their intended purpose.

3. PACKAGE CONTENTS

Your CRAFTSMAN 450-Piece Mechanic's Tool Set includes the following components:

- 3 Quick-Release Ratchets (1/4-inch, 3/8-inch, and 1/2-inch drives)
- 6 Extension Bars
- 191 Sockets (6-point, 8-point, and 12-point, in both inch and metric sizes)
- 16 Combination Wrenches
- 1 Magnetic Handle
- Assorted Bits and Hex Keys



Figure 1: Overview of the 450-piece tool set components.

The set is organized within a durable, multi-level storage case designed for easy access and transport.

4. SETUP AND ACCESSING TOOLS

The tool set is housed in a robust case with multiple compartments for organized storage.

1. **Opening the Top Compartment:** Locate the four orange latches on the top lid of the case. Unclip all four latches to open the top cover. This compartment typically contains combination wrenches and hex keys.
2. **Accessing the Trays:** The main body of the case features pull-out trays. Gently pull the handles of each tray to slide them open. The trays are designed to keep tools securely in place even during transport.
3. **Tray Organization:** The trays are typically organized by drive size and socket type (shallow, deep, 6-point, 12-point), along with various bits and adapters.



Figure 2: The tool case with its top lid open and internal trays extended, showcasing the organized tool layout.

5. OPERATING INSTRUCTIONS

This set includes a variety of tools for different applications:

- **Ratchets:** Select the appropriate drive size (1/4-inch, 3/8-inch, or 1/2-inch) for your task. Attach the desired socket or extension. Use the directional switch on the ratchet head to select tightening or loosening.
- **Sockets:** Choose the correct socket size (metric or inch) and type (6-point for maximum grip, 12-point for easier engagement in tight spaces, deep for fasteners with extended bolts) for the fastener.

- **Combination Wrenches:** Use the open-end for quick adjustments and the box-end for a secure grip and higher torque.
- **Extension Bars:** Use these to reach fasteners in confined or recessed areas.
- **Magnetic Handle:** Ideal for installing or removing small fasteners and bits, preventing drops.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your tools:

- **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 dry thoroughly.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts of ratchets and other hinged tools to ensure smooth operation and prevent rust.
- **Storage:** Always return tools to their designated slots in the storage case. Store the case in a dry, cool environment away from direct sunlight and corrosive chemicals.
- **Inspection:** Regularly inspect tools for signs of wear, damage, or corrosion. Replace any damaged tools immediately to maintain safety and effectiveness.

7. TROUBLESHOOTING

If you encounter issues with your tool set, consider the following:

- **Missing Components:** Upon receiving the set, verify all 450 pieces are present against the included parts list. If any components are missing, contact CRAFTSMAN customer support.
- **Damaged Case/Tools:** Inspect the case and tools for any damage that may have occurred during shipping. If damage is found, document it with photographs and contact CRAFTSMAN customer support for assistance.
- **Stuck or Loose Ratchet Mechanism:** Ensure the ratchet mechanism is clean and lubricated. If the issue persists, the ratchet may require servicing or replacement.

8. SPECIFICATIONS

Feature	Detail
Brand	CRAFTSMAN
Model Number	50450
Material	Alloy Steel
Finish Type	Painted, Polished
Number of Pieces	450
Drive System	Square, Hex
Drive Bit Shank Style	Hex
Bit Compatibilities	Standard bit sizes
Product Dimensions	14 x 19 x 13 inches

Size (Drives)	1/4, 3/8 and 1/2 in.
Color	Chrome
Measurement System	Inch, Metric

9. WARRANTY AND SUPPORT

CRAFTSMAN products are backed by a manufacturer's warranty. For detailed warranty information, product support, or to inquire about replacement parts, please refer to the official CRAFTSMAN website or contact their customer service directly. Keep your purchase receipt as proof of ownership.

For further assistance, visit the official [CRAFTSMAN Store](#).