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› CRAFTSMAN 1/2-Inch Drive, 72-Tooth, Pear Head Ratchet Wrench User Manual

CRAFTSMAN CMMT81749

CRAFTSMAN 1/2-Inch Drive, 72-Tooth, Pear Head Ratchet Wrench

Model: CMMT81749

INTRODUCTION

The CRAFTSMAN 1/2-Inch Drive, 72-Tooth, Pear Head Ratchet Wrench (Model CMMT81749) is engineered for professional and home use, providing reliable performance for various fastening tasks. Its 72-tooth mechanism allows for minimal arc swing, making it ideal for working in confined spaces. The full polish chrome finish ensures corrosion resistance and easy cleaning, while the ergonomic handle provides comfortable use and leverage.

This manual will guide you through the proper use and care of your new ratchet wrench to ensure its long-lasting performance and your safety.

PRODUCT OVERVIEW





Figure 1: Front view of the CRAFTSMAN 1/2-Inch Drive, 72-Tooth, Pear Head Ratchet Wrench. This image shows the polished chrome finish and the pear-shaped head with the drive mechanism.







Figure 2: Back view of the CRAFTSMAN 1/2-Inch Drive Ratchet Wrench. This view highlights the reverse switch on the back of the ratchet head.



Figure 3: Angled view of the ratchet wrench, focusing on the 1/2-inch drive square. This is where sockets are attached.



Figure 4: Another angled view, emphasizing the pear-shaped head design, which allows for better access in tight spaces.

SETUP

The CRAFTSMAN 1/2-Inch Drive Ratchet Wrench requires minimal setup. It is ready for use directly out of the packaging.

1. **Unpacking:** Carefully remove the ratchet wrench from its packaging. Inspect the tool for any signs of damage during transit.
2. **Attachment of Sockets:** To attach a socket, align the square opening of the socket with the 1/2-inch drive square on the ratchet head. Push the socket firmly onto the drive until it clicks into place, ensuring a secure connection.
3. **Removal of Sockets:** To remove a socket, firmly grasp the socket and pull it off the drive square. Some models may feature a quick-release button on the ratchet head; if present, press this button while pulling the socket to release it.

OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your ratchet wrench:

1. **Select the Correct Socket:** Choose a socket that precisely fits the fastener (nut or bolt) you intend to turn. Using an ill-fitting socket can damage both the fastener and the tool.
2. **Attach Socket:** Securely attach the selected socket to the 1/2-inch drive square of the ratchet wrench as described in the Setup section.
3. **Set Direction:** Locate the directional switch on the head of the ratchet. Move the switch to the desired position for tightening (clockwise) or loosening (counter-clockwise) the fastener. Ensure the switch is fully engaged in one direction before applying force.
4. **Position the Tool:** Place the socket firmly onto the fastener. Ensure the socket is fully seated to prevent slipping.
5. **Apply Force:** Apply steady, controlled force to the handle of the ratchet wrench. Avoid sudden jerking motions. For stubborn fasteners, apply gradual, increasing pressure. Do not use extension pipes or 'cheater bars' on the handle, as this can damage the ratchet mechanism or cause injury.
6. **Ratchet Action:** Once the fastener begins to turn, you can use the ratcheting action by moving the handle back and forth without removing the socket from the fastener. The 72-tooth mechanism allows for small arc swings, making it efficient in tight spaces.

Safety Precaution:

- Always wear appropriate personal protective equipment, such as safety glasses, when using hand tools.
- Ensure the workpiece is stable and secured before applying force.
- Do not use the ratchet wrench if it is damaged or appears to be malfunctioning.

MAINTENANCE

Proper maintenance will extend the life and performance of your CRAFTSMAN ratchet wrench:

- **Cleaning:** After each use, wipe down the ratchet wrench with a clean, dry cloth to remove dirt, grease, and debris. The full polish chrome finish makes cleaning easy.
- **Lubrication:** Periodically, apply a small amount of light machine oil to the internal mechanism of the ratchet head. This can be done by applying a few drops around the drive square and working the ratchet back and forth to distribute the oil. This helps maintain smooth operation of the 72-tooth mechanism.
- **Storage:** Store the ratchet wrench in a clean, dry environment to prevent rust and corrosion. A tool chest or drawer is ideal.
- **Inspection:** Regularly inspect the ratchet for any signs of wear, damage, or loose components. Pay close attention to the drive square and the directional switch. If significant wear or damage is observed, discontinue use and consider replacement or professional repair.

TROUBLESHOOTING

Most issues with a ratchet wrench are related to wear or improper use. Here are some common problems and their solutions:

Problem	Possible Cause	Solution
Ratchet slips or skips teeth	Worn internal mechanism; insufficient lubrication; excessive force applied.	Apply light machine oil to the head. If slipping persists, the internal mechanism may be worn and require replacement or professional service. Avoid using excessive force.
Directional switch is stiff or stuck	Accumulation of dirt/debris; lack of lubrication.	Clean the area around the switch. Apply a small amount of light machine oil and work the switch back and forth until it moves freely.
Socket does not attach securely	Debris in drive square; worn drive square or socket.	Clean the drive square and the socket opening. Inspect both for wear. Replace worn sockets or consider servicing the ratchet if the drive square is damaged.
Rust or corrosion on tool surface	Exposure to moisture or harsh chemicals; improper storage.	Clean with a rust-removing agent (if minor) and apply a protective oil. Store in a dry environment. The full polish chrome finish is designed to resist corrosion.

SPECIFICATIONS

Feature	Detail
Model Number	CMMT81749
Drive Size	1/2 inch
Tooth Count	72-Tooth
Head Style	Pear Head (Fixed Square)
Material	Alloy Steel
Finish	Full Polish Chrome
Item Weight	1.44 Pounds
Included Components	(1) 1/2" Dr 72T Pear Head Ratchet
UPC	0885911589598

WARRANTY AND SUPPORT

CRAFTSMAN tools are known for their durability and are typically backed by a strong warranty. For specific warranty details and support, please refer to the official CRAFTSMAN website or the warranty information included with your purchase.

You can visit the official CRAFTSMAN store for more information and support: [CRAFTSMAN Official Store](#) For customer service or technical assistance, please contact CRAFTSMAN customer support through their official channels.

