Milwaukee 2457-20

Milwaukee 2457-20 M12 Cordless 3/8" Lithium-Ion Ratchet User Manual

Model: 2457-20 | Brand: Milwaukee

1. INTRODUCTION

The Milwaukee 2457-20 M12 Cordless 3/8" Lithium-Ion Ratchet is engineered to provide best-in-class power, speed, and durability for sub-compact tool applications. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before initial use and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.

- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack. Use power tools only with specifically designated battery packs. Use of any other

battery packs may create a risk of injury and fire.

3. PRODUCT FEATURES

- **Powerful 12-Volt Motor:** Delivers up to 35 ft-lbs of torque for various fastening applications.
- **Superior Fastening Speed:** Produces up to 250 RPM, with a variable-speed trigger for greater control.
- **Compact Design:** At just 10-3/4 inches long and 1.9 lbs, it's tool-belt portable and ideal for tight spaces.
- **Low-Profile Head:** Features a 3/4 inch low-profile head design for access in confined areas.
- **REDLINK™ Intelligence:** Provides optimized performance and overload protection using total system communication between tool, battery, and charger.
- **On-Board Fuel Gauge:** Helps monitor the charge precisely for less downtime.
- **Built-in LED Light:** Illuminates work surfaces in dark locations.
- **Durable Construction:** Reinforced steel housing ensures maximum control and durability.

4. SETUP

Battery Installation (Battery Pack Sold Separately)

1. Ensure the ratchet's trigger is in the OFF position.
2. Align the battery pack with the battery port on the tool handle.
3. Slide the battery pack into the tool until it clicks securely into place. Do not force the battery pack. If it does not slide in easily, ensure the battery is correctly aligned.

Attaching a Socket

1. Select the appropriate 3/8" drive socket for your application.
2. Push the socket firmly onto the square drive anvil of the ratchet until it locks into place.
3. To remove, pull the socket off the anvil.

5. OPERATING INSTRUCTIONS

Forward/Reverse Operation

The direction of rotation is controlled by a switch located near the ratchet head. Push the switch to the left for forward rotation (tightening) and to the right for reverse rotation (loosening).

Trigger Operation

The tool features a variable-speed metal trigger. The speed of the ratchet is controlled by how far the trigger is depressed. Pressing the trigger lightly will result in slower speeds, while fully depressing it will achieve maximum RPM.

The built-in LED light will activate when the trigger is slightly depressed, illuminating your work area.

Overload Protection

The REDLINK™ Intelligence system protects the tool from overloading. If the tool stops unexpectedly, release the trigger, allow it to cool, and then resume operation.

Image: Milwaukee 2457-20 M12 Cordless 3/8 inch Lithium-Ion Ratchet, showcasing its compact design and red/black color scheme.

6. MAINTENANCE

General Maintenance

- Regularly inspect the tool for any signs of damage or wear.
- Keep the tool's ventilation openings clear of dust and debris to prevent overheating.
- Clean the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

Battery Care

- Store batteries in a cool, dry place away from direct sunlight and moisture.
- Do not store batteries in discharged condition for extended periods.
- Use only Milwaukee M12 chargers for charging M12 battery packs.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not operate	Battery not installed correctly or discharged.	Ensure battery is fully inserted. Charge battery if low.
Tool stops during operation	Overload protection activated.	Release trigger, allow tool to cool, and reduce load.
Reduced performance	Low battery charge or worn accessories.	Charge battery. Replace worn sockets.

8. SPECIFICATIONS

- **Model:** 2457-20
- **Brand:** Milwaukee
- **Voltage:** 12 Volts
- **Drive Size:** 3/8 inch
- **Max Torque:** 35 ft-lbs
- **No-Load Speed:** 0-250 RPM
- **Length:** 10.75 inches
- **Weight (Tool Only):** 1.5 ounces
- **Battery Type:** M12 REDLITHIUM™ (Sold Separately)
- **Head Style:** Fixed Square

9. WARRANTY AND SUPPORT

Warranty Information

This Milwaukee 2457-20 M12 Cordless 3/8" Lithium-Ion Ratchet comes with a **5-Year Limited Warranty**. This warranty covers defects in material and workmanship. For full warranty details, including exclusions and how to make a claim, please refer to the warranty documentation included with your purchase or visit the official Milwaukee website.

Customer Support

For technical assistance, service, or parts inquiries, please contact Milwaukee Customer Service. Contact information can be found on the Milwaukee website or in your product packaging.