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## DEWALT DCF512B

# DEWALT ATOMIC 20V MAX Brushless Cordless Ratchet (DCF512B) User Manual

Model: DCF512B | Brand: DEWALT

## INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DEWALT ATOMIC 20V MAX Brushless Cordless 1/2 Inch Ratchet, model DCF512B. Please read this manual thoroughly before using the tool and retain it for future reference. This tool is designed for fastening and removing bolts and nuts.



Image: The DEWALT ATOMIC 20V MAX Brushless Cordless Ratchet, model DCF512B, shown from the side. It features a yellow and black design, with the 1/2 inch square drive head on the left and the battery connection point on the right (battery not included).

## IMPORTANT SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Keep this manual for future reference.

### 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.

- **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. Always wear eye protection. Use safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

## Specific Ratchet Safety Warnings

- Always ensure the tool is switched off and the battery is removed before changing accessories or performing maintenance.
- Do not use the ratchet as a hammer or pry bar.
- Ensure sockets are securely attached before operation.
- Keep hands clear of rotating parts during operation.
- This tool is a bare tool only. Use only with DEWALT 20V MAX\* batteries and chargers.

## Proposition 65 Warning

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## PRODUCT OVERVIEW

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Familiarize yourself with the components of your DEWALT ATOMIC 20V MAX Brushless Cordless Ratchet.



Image: A detailed diagram of the DEWALT ATOMIC 20V MAX Brushless Cordless Ratchet with key components labeled. These include the 1/2" Square Drive, Forward/Reverse Switch, LED Worklight, Glass-Filled Nylon Housing, Brushless Motor, Trigger Lock Switch, and Variable Speed Trigger.

1. **1/2" Square Drive:** For attaching sockets.
2. **Forward/Reverse Switch:** Controls the direction of rotation.
3. **LED Worklight:** Illuminates the work area.
4. **Glass-Filled Nylon Housing:** Provides durability and resistance to certain chemicals.
5. **Brushless Motor:** Efficient and powerful motor.
6. **Trigger Lock Switch:** Prevents accidental activation.
7. **Variable Speed Trigger:** Controls the operating speed.

## SETUP

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### Battery Installation and Removal

This DEWALT tool is a "bare tool" and requires a DEWALT 20V MAX\* battery pack and charger (sold separately).

- **To Install Battery:** Align the battery pack with the tool's battery port. Slide the battery pack into the tool until it clicks securely into place.

- **To Remove Battery:** Press the battery release button (usually located on the battery pack) and pull the battery pack out of the tool.

Ensure the battery is fully charged before use for optimal performance.

## Attaching and Removing Sockets

- **To Attach:** Push the desired 1/2 inch drive socket firmly onto the square drive anvil until it locks into place.
- **To Remove:** Pull the socket off the square drive anvil.

Always use impact-rated sockets for power tool applications.

## OPERATING INSTRUCTIONS

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### Powering On/Off and Speed Control



Image: A close-up view of the DEWALT ratchet's handle, highlighting the variable speed trigger. The trigger allows for speed control from 0-250 RPM, enabling precise operation.

- **To Turn On:** Depress the variable speed trigger. The tool's speed is proportional to the amount of trigger depression.
- **To Turn Off:** Release the variable speed trigger.

- **Trigger Lock:** To prevent accidental startup, engage the trigger lock switch (refer to Product Overview diagram). Push the switch to the locked position when the tool is not in use.

## Forward/Reverse Operation

The forward/reverse switch controls the direction of the ratchet's rotation. Push the switch to the left for forward (tightening) and to the right for reverse (loosening). Ensure the tool has come to a complete stop before changing direction.

## LED Worklight



**LED**

**BRIGHT LED WORKLIGHT**

Image: A close-up of the front section of the DEWALT ratchet, showing the integrated bright LED worklight. This light illuminates the work area for improved visibility.

The integrated LED worklight activates when the trigger is depressed, providing illumination for the work area. It will remain on for a short period after the trigger is released.

## Torque Application



**70 ft-lbs. MAX TORQUE**

Image: A DEWALT ATOMIC ratchet being used by a person wearing black gloves to tighten a bolt in a confined automotive space, demonstrating its 70 ft-lbs maximum torque capability.

This ratchet delivers up to 70 ft-lbs of max torque. For applications requiring precise torque values, always use a calibrated torque wrench to verify the final fastener tightness.

## MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your tool. Always disconnect the battery pack before performing any maintenance.

### Cleaning

- Use a clean, damp cloth to wipe down the exterior of the tool.
- Do not use solvents or harsh chemicals, as the glass-filled nylon housing is designed to resist abrasive solvents but excessive exposure should be avoided.
- Keep the ventilation openings clear of dust and debris to prevent overheating.



## OIL RESISTANT TOOL HOUSING

Image: An icon depicting a shield with an oil can inside, indicating the tool's oil-resistant housing feature.

### Storage

Store the tool in a cool, dry place, out of reach of children. Remove the battery pack before storing for extended periods.

### TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start.	Battery pack not installed correctly or discharged. Trigger lock engaged.	Ensure battery is fully seated. Charge battery pack. Disengage trigger lock.
Reduced power or speed.	Low battery charge. Overload condition.	Recharge battery pack. Reduce load on the tool.
Tool stops during operation.	Overload protection activated. Battery overheated.	Release trigger, allow tool to cool. Allow battery to cool before resuming use.

If the problem persists after attempting these solutions, contact DEWALT customer service or an

authorized service center.

## SPECIFICATIONS

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Feature	Detail
Model Number	DCF512B
Voltage	20V MAX*
Drive Size	1/2 Inch Square Drive
Max Torque	70 ft-lbs
Operation Mode	Battery Powered
Motor Type	Brushless
Housing Material	Glass-Filled Nylon
Item Weight	1.41 pounds (tool only)
Item Length	15.79 Inches
UPC	885911738309

\*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18.

## WARRANTY AND SUPPORT

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DEWALT provides a limited warranty for its products. For detailed warranty information, including terms, conditions, and registration, please refer to the official DEWALT website or the warranty card included with your purchase.

For technical assistance, service, or to locate an authorized service center, please visit the official DEWALT support page or contact their customer service directly.

**Online Support:** [www.dewalt.com/support](http://www.dewalt.com/support)

## PRODUCT VIDEOS

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No official product videos with specifiedcreator\_type: "Seller" and m3u8 format were provided in the input data to embed in this manual.