

DEWALT DCF513B

DEWALT ATOMIC 20V MAX* Cordless Ratchet DCF513B User Manual

Model: DCF513B

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and care of your DEWALT ATOMIC 20V MAX* Brushless Cordless 3/8 in. Ratchet (DCF513B). Please read this manual thoroughly before using the tool and retain it for future reference.

The DCF513B is engineered for challenging fastening tasks, delivering up to 70 ft-lbs of max torque. Its compact design and integrated features like an LED worklight and glass-filled nylon housing enhance usability and durability in various work environments.

2. GENERAL SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep your work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves.

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.

3. COMPONENTS AND FEATURES

Familiarize yourself with the key components of your DEWALT Cordless Ratchet:

- **3/8 in. Square Drive:** For attaching sockets.
- **Brushless Motor:** Provides efficient power and extended tool life.
- **Variable Speed Trigger:** Allows for precise speed control based on application.
- **Direction Switch:** Changes rotation direction (forward/reverse).
- **Trigger Lock:** Prevents accidental activation.
- **LED Worklight:** Illuminates the work area.
- **Battery Release Button:** For detaching the battery pack.

- **Glass-Filled Nylon Housing:** Designed for durability and resistance to automotive solvents.



Figure 1: Overview of the DEWALT ATOMIC 20V MAX* Cordless Ratchet DCF513B.



Figure 2: Side view highlighting the brushless motor technology.

4. SETUP

4.1 Battery Installation and Removal

The DCF513B requires a DEWALT 20V MAX* battery pack (sold separately). Ensure the battery is fully charged before use.

1. **To Install:** Align the battery pack with the tool's battery port. Slide the battery into the tool until it clicks securely into place.
2. **To Remove:** Press the battery release button and pull the battery pack out of the tool.

4.2 Attaching Sockets

Select the appropriate 3/8 in. drive socket for your fastener. Push the socket firmly onto the square drive anvil until it is securely seated.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Speed Control

To operate the tool, depress the variable speed trigger. The tool's speed is controlled by the amount of trigger depression; pressing further increases the speed. To turn off, release the trigger.

5.2 Changing Direction of Rotation

The direction switch is located near the trigger. Push the switch to the left for forward rotation (tightening) and to the right for reverse rotation (loosening). Ensure the tool is stopped before changing direction.

5.3 Using the Trigger Lock

The trigger lock helps prevent accidental activation. Engage the trigger lock when the tool is not in use or during battery changes. The tool will not operate when the trigger lock is engaged.

5.4 LED Worklight

The integrated LED worklight activates when the trigger is partially depressed, illuminating your work area for improved visibility in dimly lit spaces.



Figure 3: Cordless ratchet in use within an engine compartment.



Figure 4: Cordless ratchet being used for under-vehicle maintenance.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the tool's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. The glass-filled nylon housing is designed to resist common automotive solvents and chemicals, but excessive exposure should be avoided.

6.2 Storage

Store the tool and battery pack in a cool, dry place, away from direct sunlight and moisture. Ensure the trigger lock is engaged before storing. Remove the battery pack if storing for extended periods.

7. TROUBLESHOOTING

If your DEWALT Cordless Ratchet is not functioning as expected, consider the following:

- **Tool not starting:** Ensure the battery pack is fully charged and properly inserted. Check if the trigger lock is disengaged.
- **Reduced power:** The battery may be low on charge. Recharge the battery pack.
- **Excessive vibration or noise:** Stop using the tool immediately. Check for loose components or damage. Contact DEWALT service for assistance.

For further assistance, refer to the official DEWALT support resources.

8. SPECIFICATIONS

Specification	Detail
Model Number	DCF513B
Brand	DEWALT
Power Source	Battery Powered (20V MAX*)
Drive Size	3/8 inch
Max Torque	70 Foot Pounds
Item Weight	2.63 Pounds
Item Length	15.79 Inches
Operation Mode	Battery
Voltage	120V (Charger input)
Included Components	DCF513 Ratchet (Tool Only)
Batteries Included?	No
Batteries Required?	Yes

9. WARRANTY AND SUPPORT

DEWALT provides comprehensive warranty coverage for this product:

- **3-Year Limited Warranty:** Covers defects in material or workmanship.
- **1-Year Free Service:** Free service for the first year of ownership.
- **90-Day Money Back Guarantee:** If you are not completely satisfied, you can return the product within 90 days for a full refund.

Extended protection plans are also available for purchase:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan covering multiple eligible purchases)

For warranty claims, service, or additional support, please visit the official DEWALT website or contact their customer service. You can also visit the [DEWALT Store on Amazon](#).



Figure 5: DEWALT Tool Warranty Information.