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DEWALT DCF510B

DEWALT 20V MAX XR Cordless Ratchet DCF510B User Manual

Model: DCF510B

1. Introduction

This manual provides essential information for the safe operation, maintenance, and care of your DEWALT 20V MAX XR Cordless Ratchet, Model DCF510B. This tool is designed for fastening and removing nuts and bolts with efficiency and precision. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury.
Note: This product is a bare tool only. Battery and charger are sold separately.

2. General Safety Instructions

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

- **Work Area Safety:** Keep your 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:** Always wear eye protection. Use safety glasses or goggles. Wear appropriate personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when necessary. Avoid accidental starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.
- **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. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

3. Product Features

The DEWALT 20V MAX XR Cordless Ratchet is engineered for professional use, offering power, versatility, and durability.



Overview of the DEWALT 20V MAX XR Cordless Ratchet, highlighting its ergonomic grip, brushless motor, LED worklight, forward/reverse switch, and interchangeable anvils.

- **Interchangeable Anvils:** Quickly swap between 3/8" and 1/2" square drives for various applications.



A close-up of hands attaching an interchangeable anvil to the ratchet head.

- **Brushless Motor:** Delivers 75 ft-lbs of max torque and a no-load speed of 0-300 RPM for efficient fastening and removal of stubborn nuts and bolts.

- **Sealed Head Design:** The sealed head and glass-filled nylon tool housing help prevent damage from automotive oils and solvents.
- **Integrated LED Light:** Illuminates low-light workspaces for improved visibility.



The LED worklight on the ratchet illuminating a dark engine compartment.

- **Variable Speed Trigger:** Allows for optimized user speed and control based on the application.



A hand pressing the variable speed trigger of the ratchet during use.

- **Forward/Reverse Switch:** Enables quick direction changes for efficient working in tight spaces.



A hand manipulating the forward/reverse switch located on the ratchet head.

- **Trigger Lock:** Helps prevent accidental activation when applied.

4. Setup

4.1 Attaching/Detaching the Battery Pack

The DEWALT 20V MAX XR Cordless Ratchet operates with a DEWALT 20V MAX* battery pack (sold separately).



Visual reminder that the battery and charger are not included with the bare tool.

1. To install the battery pack, align the battery pack with the rails inside the tool's handle.
2. Slide the battery pack firmly into the handle until it locks into place. Ensure it is securely latched.
3. To remove the battery pack, press the release button on the battery pack and pull the battery pack out of the

handle.

4.2 Changing Anvils

The ratchet comes with interchangeable 3/8" and 1/2" square drive anvils.

1. Ensure the tool is off and the battery pack is removed before changing anvils.
2. To remove an anvil, pull it firmly away from the ratchet head.
3. To install an anvil, align the square drive end with the opening on the ratchet head and push it firmly until it clicks into place.

5. Operating Instructions

5.1 Powering On/Off

The tool is activated by the variable speed trigger. The trigger lock prevents accidental activation.

1. To unlock the trigger, push the trigger lock button to the unlocked position.
2. To turn the tool on, depress the variable speed trigger. The tool's speed is controlled by how far the trigger is pressed.
3. To turn the tool off, release the trigger.
4. To lock the trigger, push the trigger lock button to the locked position when not in use.

5.2 Forward/Reverse Operation

The direction of rotation is controlled by the forward/reverse switch located on the ratchet head.

1. For tightening (forward rotation), push the switch to the left.
2. For loosening (reverse rotation), push the switch to the right.
3. Ensure the tool has come to a complete stop before changing the direction of rotation.

5.3 Using the LED Worklight

The integrated LED light automatically activates when the trigger is pressed, illuminating the work area.

6. Maintenance

Your DEWALT power tool is designed to operate over a long period with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

6.1 Cleaning

- Regularly clean the ventilation slots in the tool to prevent overheating.
- Use only mild soap and a damp cloth to clean the tool. Do not allow any liquid to get inside the tool.
- Do not use petroleum-based solvents or harsh chemicals, as these can damage the plastic housing.
- The sealed head design helps protect against automotive oils and solvents, but regular wiping down is recommended.

6.2 Lubrication

Your power tool requires no additional lubrication. All bearings are permanently lubricated.

6.3 Battery Pack Care

Refer to the instruction manual provided with your DEWALT battery pack and charger for proper care and maintenance of those components.

7. Troubleshooting

If your DEWALT 20V MAX XR Cordless Ratchet is not functioning correctly, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery pack not installed correctly or discharged. Trigger lock engaged.	Ensure battery pack is fully charged and properly inserted. Disengage the trigger lock.
Reduced power or speed	Battery pack low on charge. Tool overloaded.	Recharge battery pack. Reduce load on the tool.
Anvil difficult to change	Debris in the anvil mechanism.	Clean the anvil area and apply a small amount of lubricant if necessary.

If you continue to experience problems, contact DEWALT customer service or an authorized service center.

8. Specifications

Feature	Specification
Model Number	DCF510B
Voltage	20V MAX*
Drive Size	3/8" & 1/2" Square Drive (Interchangeable)
Max Torque	75 ft-lbs
No-Load Speed	0-300 RPM
Weight (Bare Tool)	3.1 pounds
Length	1.25 feet
Material	Alloy Steel, Glass-filled Nylon Housing
UPC	885911738323

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

9. Warranty Information

This DEWALT product comes with a Manufacturer Warranty. For specific details regarding your warranty coverage, including duration and terms, please refer to the warranty card included with your product or visit the official DEWALT website.

- **3-Year Limited Warranty:** Covers defects in materials or workmanship.
- **1-Year Free Service:** DEWALT will maintain the tool and replace worn parts caused by normal use, for free, any time during the first year after purchase.
- **90-Day Money Back Guarantee:** If you are not completely satisfied with the performance of your DEWALT Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase for a full refund.

10. Support

For further assistance, technical support, or to locate an authorized service center, please contact DEWALT directly:

- **DEWALT Official Website:** www.dewalt.com
- **Customer Service:** Refer to the contact information on the official website for phone numbers or email support.
- **DEWALT Store on Amazon:** Visit the DEWALT Store

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