DEWALT DCD800B

DEWALT 20V MAX XR Cordless Drill/Driver DCD800B Instruction Manual

Model: DCD800B

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your DEWALT 20V MAX XR Cordless Drill/Driver, model DCD800B. Please read and understand all instructions before using the tool. Keep this manual for future reference.

For a detailed PDF version of the user manual, please refer to the official document: DEWALT DCD800B User Manual (PDF)

2. General Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools.

2.1 Work Area Safety

- Keep the 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

2.3 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.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

3. Product Overview

The DEWALT DCD800B is a 20V MAX XR Cordless Drill/Driver designed for various drilling and fastening applications. It features a brushless motor for efficiency and durability, a 1/2-inch metal ratcheting chuck, and a compact design for improved maneuverability.

3.1 Key Features

- **Brushless Motor:** Provides increased runtime and motor life.
- **1/2-inch Metal Ratcheting Chuck:** Ensures high bit retention and durability.
- **Compact Size:** At 6.37 inches, it allows access to hard-to-reach work areas.
- **2-Speed Transmission:** Offers variable speeds (0-650/0-2,000 rpm) for optimal control.
- **3-Position, 3-Mode Pivoting LED:** Illuminates dark work areas with up to 70 Lumens, including a 20-minute shutoff function.
- **Tool Connect™ Chip Ready:** Compatible with Tool Connect™ chips for tracking (chip sold separately).





Figure 1: DEWALT 20V MAX XR Cordless Drill/Driver DCD800B. This image displays the overall design of the drill/driver, highlighting its compact form factor and ergonomic grip.



Figure 2: Close-up of the 1/2-inch metal ratcheting chuck. This component securely holds drill bits and driver accessories during operation.



Figure 3: View of the brushless motor housing. The brushless motor technology enhances tool efficiency and extends its lifespan.



Figure 4: Detail of the 2-speed transmission selector switch. This switch allows users to select between high-speed drilling and high-torque driving modes.



Figure 5: The pivoting LED light located at the base of the tool. This light provides illumination for dimly lit work areas and features multiple modes.

4. Setup

The DCD800B is a bare tool, meaning the battery pack and charger are sold separately. Ensure you have a compatible DEWALT 20V MAX battery and charger before proceeding.

4.1 Battery Installation and Removal

1. To install the battery pack (sold separately), align the battery pack with the rails inside the tool's handle. Slide the battery pack firmly into the handle until it latches into place.
2. To remove the battery pack, press the release button on the front of the battery pack and pull the battery pack out of the handle.

4.2 Chuck Operation

1. To open the chuck jaws, rotate the chuck collar counter-clockwise until the jaws are wide enough to accept the

bit.

2. Insert the drill bit or driver accessory into the chuck. Ensure the bit is centered and fully seated.
3. Rotate the chuck collar clockwise to tighten the jaws firmly around the bit. Hand-tighten securely.

4.3 Belt Hook Attachment

The DCD800B includes a belt hook. To attach it, align the hook with the designated screw hole on either side of the tool's base and secure it with the provided screw.



Figure 6: The tool's base showing the compartment for a Tool Connect™ chip (sold separately). This feature allows for tool tracking and inventory management.

5. Operating Instructions

5.1 Powering On/Off and Variable Speed Trigger

The tool is activated by pressing the trigger switch. The speed of the tool is controlled by the amount of trigger depression; the further the trigger is pressed, the higher the speed.

5.2 Speed Settings

The DCD800B features a 2-speed transmission. Use the speed selector switch located on top of the tool:

- **Position 1 (Low Speed):** For high-torque applications, such as driving large fasteners or drilling large holes. (0-650 RPM)
- **Position 2 (High Speed):** For fast drilling or driving smaller fasteners. (0-2,000 RPM)

5.3 Clutch Settings

The adjustable clutch collar allows you to select the appropriate torque setting for driving screws. Rotate the collar to align the desired number with the arrow on the tool body. Lower numbers are for smaller screws and softer materials, while higher numbers are for larger screws and harder materials. The drill symbol setting bypasses the clutch for maximum torque when drilling.

5.4 Forward/Reverse Control

The forward/reverse button is located above the trigger. Push the button to the left for forward rotation (drilling/driving) and to the right for reverse rotation (removing screws or backing out bits). Center position locks the trigger for safety.

5.5 LED Work Light

The integrated LED light illuminates the work surface. It has 3 positions and 3 modes, providing up to 70 Lumens. The spotlight mode includes a 20-minute shutoff function for extended illumination.



Figure 7: Illustrates the compact length of the DCD800B, making it suitable for working in confined spaces.



Figure 8: Demonstrates the power output capability of the DCD800B, indicating its suitability for demanding tasks.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

6.1 Cleaning

- Keep the ventilation slots clear to prevent overheating. Use a soft brush or compressed air to remove dust and debris.
- Clean the tool's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Storage

- Store the tool in a dry, secure location out of reach of children.
- Ensure the battery is removed from the tool before storage.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

If you encounter issues with your DEWALT DCD800B, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed	Charge battery fully and ensure it is securely seated.
Reduced power or speed	Low battery charge; incorrect speed setting	Recharge battery; select appropriate speed setting (Position 2 for higher speed).
Chuck not holding bit	Chuck not tightened sufficiently; worn chuck jaws	Ensure bit is fully inserted and chuck is hand-tightened. If problem persists, chuck may need replacement.
Tool overheating	Blocked ventilation slots; continuous heavy use	Clear ventilation slots. Allow tool to cool down during prolonged heavy use.

8. Specifications

The following table outlines the technical specifications for the DEWALT DCD800B Cordless Drill/Driver.

Feature	Specification
Brand	DEWALT
Model Number	DCD800B
Power Source	Battery Powered (20V MAX)
Maximum Rotational Speed	2000 RPM
Voltage	20 Volts
Amperage	20 Amps
Maximum Chuck Size	0.5 Inches (1/2-inch)
Included Components	DCD800 20V MAX* XR® Brushless Cordless 1/2 in. Drill/Driver; Belt Hook
Special Feature	Variable Speed
Product Dimensions (L x W x H)	8.78"L x 3.31"W x 6.89"H
Material	Blend
Number of Speeds	2
Item Weight	3.17 Pounds
Maximum Power	300 Watts
Drilling Capacity Wood	38 Millimeters
Drilling Capacity Metal	12.7 Millimeters

Feature	Specification
Battery Cell Type	Lithium Ion



Figure 9: An overview graphic detailing several key features of the DEWALT DCD800B, including its compact size, chuck type, LED light, and power output.



Figure 10: Illustrates the compatibility of the DCD800B with the entire DEWALT 20V MAX system of tools and chargers, emphasizing system expandability.

9. Warranty and Support

DEWALT products are manufactured to high-quality standards and typically come with a limited warranty. For specific warranty details, including coverage period and terms, please refer to the official documentation included with your product or visit the official DEWALT website.

For customer support, service, or to locate a service center, please visit the official DEWALT website or contact their customer service line. Always have your model number (DCD800B) and purchase information ready when seeking support.

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