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DEWALT DCD7771B-B3

DEWALT DCD7771B 20V MAX* Brushless Cordless Drill/Driver Instruction Manual

Model: DCD7771B-B3

1. Introduction



Figure 1.1: The DEWALT DCD7771B 20V MAX* Brushless Cordless Drill/Driver, designed for efficient drilling and fastening tasks.

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your DEWALT DCD7771B 20V MAX* Brushless Cordless Drill/Driver. Please read this manual thoroughly before using the tool to ensure proper handling and to maximize its performance and lifespan. This tool is designed for drilling and fastening applications in various materials.

2. General Safety Information

Always follow basic safety precautions when using power tools 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. Keep children and bystanders away while operating a power tool.

Personal Safety

- Wear eye protection and hearing protection.

- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Do not overreach. Keep proper footing and balance at all times.

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.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

3. Components and Features

Familiarize yourself with the parts of your DEWALT DCD7771B drill/driver.



Figure 3.1: Overview of the DEWALT DCD7771B Drill/Driver highlighting key features such as the Brushless Motor, Variable Speed Trigger, and Compact Design.

- **Keyless Chuck:** Allows for quick and easy bit changes.
- **Torque Adjustment Collar:** Provides 15 clutch settings for various fastening applications and a drill mode for drilling.
- **Two-Speed Gear Selector:** Allows selection between high-speed drilling and high-torque driving.
- **Variable Speed Trigger:** Provides precise control over drilling and driving speed.
- **Forward/Reverse Switch:** Controls the direction of rotation.
- **Brushless Motor:** Offers increased efficiency, longer runtime, and reduced maintenance compared to brushed motors.
- **LED Work Light:** Illuminates the work area for improved visibility.
- **Battery Indicator:** Displays the remaining battery charge (requires compatible DEWALT 20V MAX* battery, sold separately).

4. Setup

4.1 Battery Installation and Removal

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

- **To Install:** Align the battery pack with the rails inside the tool's handle and slide it in until it clicks securely into place.
- **To Remove:** Press the battery release button located on the front of the battery pack and pull the battery pack out of the handle.

4.2 Bit Installation and Removal

- **To Install:** Rotate the chuck collar counter-clockwise until the chuck jaws are open wide enough to insert the desired drill bit or screwdriver bit. Insert the bit fully into the chuck. Rotate the chuck collar clockwise to tighten the jaws securely around the bit.
- **To Remove:** Rotate the chuck collar counter-clockwise to loosen the jaws and pull the bit out.

5. Operating Instructions

5.1 Variable Speed Trigger

The tool's speed is controlled by the pressure applied to the trigger switch. Pressing the trigger further increases the speed. This allows for precise control, especially when starting a hole or driving a screw.

5.2 Forward/Reverse Control

The forward/reverse lever is located above the trigger. Push the lever to the left for forward rotation (drilling/driving). Push it to the right for reverse rotation (removing screws). Center the lever to lock the trigger and prevent accidental starting.

5.3 Torque Adjustment (Clutch Settings)

The torque adjustment collar has 15 clutch settings and a drill mode. Rotate the collar to select the desired torque setting. Lower numbers are for smaller screws and softer materials, while higher numbers are for larger screws and harder materials. The drill symbol bypasses the clutch for maximum torque when drilling.

5.4 Two-Speed Gear Selector

The gear selector switch is located on top of the tool. Position 1 (low speed) provides higher torque for driving screws and drilling large holes. Position 2 (high speed) provides higher speed for drilling smaller holes.



Figure 5.1: The DEWALT DCD7771B drill/driver being used to drill into a metal surface, demonstrating its capability for various materials.



Figure 5.2: The DEWALT DCD7771B drill/driver being used to drill into a wall, showcasing its versatility for home improvement tasks.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your tool.

- **Cleaning:** Use a clean, dry cloth to wipe off dirt, dust, and debris from the tool's housing and ventilation openings. Do not use solvents or harsh chemicals.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Brushless Motor:** The brushless motor design requires less maintenance compared to traditional brushed motors, as there are no carbon brushes to replace.
- **Storage:** Store the tool in a dry, secure location out of reach of children. Remove the battery pack before storing for extended periods.

7. Troubleshooting

If your DEWALT DCD7771B drill/driver 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 inserted and charged. Disengage the forward/reverse switch from the center (locked) position.
Reduced power or speed.	Low battery charge. Incorrect gear setting.	Recharge the battery pack. Select the appropriate gear (Position 1 for higher torque).
Bit slips in chuck.	Chuck not tightened sufficiently. Chuck jaws are dirty.	Tighten the chuck firmly. Clean the chuck jaws.
Overheating.	Continuous heavy use. Blocked ventilation slots.	Allow the tool to cool down. Clear any obstructions from the ventilation slots.

8. Specifications

Feature	Detail
Model Number	DCD7771B-B3
Voltage	20V MAX*
Motor Type	Brushless
Max Power	340 Watts
Max Torque	65 Newton-Meters

Feature	Detail
No Load Speed	0-1750 RPM
Chuck Size	13 mm (1/2 inch)
Clutch Settings	15 + Drill Mode
Weight (Tool Only)	1.1 Kilograms
Dimensions (L x W x H)	20.1 x 8.4 x 21.2 cm

9. Warranty and Support

DEWALT provides a limited warranty for its products. For detailed warranty information, service, or technical support, please refer to the official DEWALT website or contact their customer service. Keep your proof of purchase for warranty claims.
Official DEWALT Website: www.dewalt.com

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