**DEWALT DCD778B**

# DEWALT DCD778B 20V Max 2 Speed 1/2" Cordless Brushless Hammer Drill User Manual

Model: DCD778B

## Product Overview

This Brushless Compact Hammer Drill/Driver DCD778B is designed with a high performance brushless motor. It delivers 340 unit watts out (UWO) and up to 57% more runtime over brushed motors. It features a two-speed transmission for a wide range of applications and includes a bright LED for working in dark or confined spaces. Battery and charger are sold separately.




Figure 1: Front view of the DeWalt DCD778B Hammer Drill.

## Safety Information

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves.
- Ensure the workpiece is stable and secured before drilling.
- Keep hands clear of rotating parts.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Disconnect the battery pack from the tool before making any adjustments, changing accessories, or storing the tool.
- Use only battery packs and chargers specified by the manufacturer.

## Components

Familiarize yourself with the main components of your DeWalt DCD778B Hammer Drill:

1. **Chuck:** Holds drill bits and other accessories securely.
2. **Torque/Mode Selector:** Adjusts the clutch setting for driving screws or selects drill/hammer drill mode.

3. **Speed Selector:** Switches between two speed ranges (Low/High).
4. **Trigger Switch:** Activates the drill and controls variable speed.
5. **LED Work Light:** Illuminates the work area.
6. **Forward/Reverse Button:** Changes the direction of rotation.
7. **Battery Release Button:** Releases the battery pack from the tool.
8. **Battery Port:** Where the battery pack is inserted.




Figure 2: Angled view highlighting the chuck and speed selector.

## Setup

### 1. Battery Installation

- Ensure the battery pack is fully charged before first use.
- Align the battery pack with the battery port on the tool.
- Slide the battery pack into the tool until it clicks securely into place.
- To remove, press the battery release button and pull the battery pack out.




Figure 3: View of the battery slot on the DeWalt DCD778B.

### 2. Installing Drill Bits/Accessories

- Rotate the chuck counter-clockwise to open the jaws.
- Insert the desired drill bit or accessory into the chuck, ensuring it is centered.
- Rotate the chuck clockwise to tighten the jaws firmly around the bit. Hand-tighten only; do not use a wrench.

## Operating Instructions

### 1. Selecting Speed

- Use the speed selector switch located on top of the drill.
- Position 1 (Low Speed): For high torque applications, such as driving large screws or drilling large holes.
- Position 2 (High Speed): For faster drilling and lighter applications.

### 2. Adjusting Torque/Mode

- Rotate the torque/mode selector ring behind the chuck.
- **Drill Mode (Drill Icon):** For general drilling applications.
- **Hammer Drill Mode (Hammer Icon):** For drilling into masonry or concrete.

- **Clutch Settings (Numbered Settings):** For driving screws. Select a lower number for smaller screws or softer materials, and a higher number for larger screws or harder materials. The clutch will disengage when the set torque is reached, preventing overtightening or stripping.

### 3. Forward/Reverse Operation

- The forward/reverse button is located above the trigger.
- Push the button to the left for forward rotation (clockwise).
- Push the button to the right for reverse rotation (counter-clockwise), useful for removing screws or freeing jammed bits.
- Center position locks the trigger for safety during storage or bit changes.

### 4. Using the Trigger Switch and LED Light

- Squeeze the trigger switch to start the drill. The speed is variable based on how far the trigger is pressed.
- The integrated LED work light will activate when the trigger is pressed, illuminating the work surface. It will remain on for approximately 20 seconds after the trigger is released.

## Maintenance

- **Cleaning:** Regularly clean the ventilation slots and housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the tool in a dry, secure location out of reach of children. Remove the battery pack before extended storage.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Battery Care:** Store battery packs in a cool, dry place. Do not store fully discharged batteries for extended periods.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Drill does not start. | Battery not charged or not properly inserted. Trigger lock engaged. | Charge battery. Ensure battery is fully seated. Disengage trigger lock (center position of F/R button). |
| Reduced power or runtime. | Low battery charge. Overheating. | Recharge battery. Allow tool to cool down. |
| Bit slips in chuck. | Chuck not tightened sufficiently. Dirty chuck jaws. | Retighten chuck firmly. Clean chuck jaws. |
| Excessive vibration. | Bent or damaged drill bit. | Replace with a new, straight drill bit. |

## Specifications

| Feature | Detail |
|---|---|
| Brand | DEWALT |
| Model Number | DCD778B |

| Feature | Detail |
|---|---|
| Power Source | Battery Powered |
| Voltage | 20 Volts |
| Maximum Rotational Speed | 1750 RPM |
| Maximum Power | 300 Watts |
| Number of Speeds | 2 |
| Drill Type | Hammer Drill |
| Item Weight | 2.99 pounds (1.36 Kilograms) |
| Product Dimensions | 7.25"L x 7.25"W x 2.25"H |
| Special Feature | Variable Speed |
| Color | Yellow/Black |

## Warranty and Support

For detailed warranty information and customer support, please refer to the official DEWALT website or contact their customer service directly. Keep your proof of purchase for warranty claims.
For additional assistance, visit the official DEWALT store:DEWALT Store on Amazon.

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