DEWALT DCD796M2

Dewalt DCD796M2 18V Cordless Brushless Hammer Drill Driver User Manual

Model: DCD796M2

1. Product Overview

The Dewalt DCD796M2 is a powerful 18V cordless brushless hammer drill driver designed for drilling, hammer drilling, and screwdriving applications in wood, metal, and masonry. This tool combines advanced technology with robust construction to deliver reliable performance and extended tool life.

1.1 Intended Use

This hammer drill driver is intended for professional and DIY use in various construction and renovation tasks. It is suitable for:

- Drilling holes in wood, plastic, and metal.
- Hammer drilling in masonry and concrete.
- Driving and removing screws.

1.2 Key Features

- **18V Cordless Operation:** Provides portability and convenience without the need for power outlets.
- **Brushless Motor:** Ensures reduced maintenance, longer tool life, and extended runtime per battery charge.
- **Two-Speed All-Metal Gearbox:** Offers excellent power transmission and durability for various applications.
- **15-Position Adjustable Torque Control:** Allows for precise screwdriving into various materials.
- **Integrated 3-Level LED Work Light:** Illuminates the work area for improved visibility, up to 77 lumens.
- **Robust 13mm Keyless Chuck:** For quick and easy bit changes.
- **Electronic Safety Monitoring:** Continuously checks battery temperature, current draw, and discharge protection.



Figure 1: The Dewalt DCD796M2 18V Cordless Brushless Hammer Drill Driver. This image shows the main body of the drill, including the chuck, torque collar, mode selector, speed selector, trigger, and battery interface.

2. Important Safety Instructions

Always follow basic safety precautions when using this product to reduce the risk of fire, electric shock, and personal injury.

2.1 General Power Tool Safety Warnings

- **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:** 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.
- **Personal Safety:** Always wear eye protection. Use personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate. Stay alert, watch what you are doing,

and use common sense when operating a power tool.

- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Do not use the power tool if the switch does not turn it on and off. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

2.2 Drill Safety Warnings

- Wear ear protectors when hammer drilling. Exposure to noise can cause hearing loss.
- Use auxiliary handles if supplied with the tool. Loss of control can result in personal injury.
- Hold power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Always ensure the workpiece is securely clamped or held.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your retailer.

- 1x Dewalt DCD796M2 18V Cordless Brushless Hammer Drill Driver
- 2x 18V 4.0 Ah Li-ion Batteries
- 1x Battery Charger
- 1x Metal Belt Clip
- 1x Magnetic Bit Holder
- 1x T-STAK Case

4. Product Features and Components

Familiarize yourself with the various parts of your DCD796M2 hammer drill driver.



Figure 2: Side view of the Dewalt DCD796M2, highlighting the chuck, torque adjustment ring, mode selector, and battery connection.

1. Keyless Chuck
2. Torque Adjustment Ring
3. Mode Selector (Drill, Hammer Drill, Screwdriver)
4. Two-Speed Gear Selector
5. Forward/Reverse Selector
6. Trigger Switch
7. LED Work Light
8. Battery Release Button
9. Battery Pack
10. Belt Clip (removable)

11. Magnetic Bit Holder

5. Setup

5.1 Battery Installation and Removal

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 (8) and pull the battery pack out of the tool.

5.2 Charging the Battery

Use only the supplied Dewalt charger to charge the Li-ion batteries. Refer to the charger's instruction manual for detailed charging procedures.

1. Plug the charger into an appropriate power outlet.
2. Slide the battery pack onto the charger until it is fully seated.
3. The charger's indicator light will show the charging status.
4. Once charging is complete, remove the battery from the charger.

5.3 Attaching and Removing Accessories (Chuck Operation)

1. **To Open the Chuck:** Rotate the chuck sleeve (1) counter-clockwise until the jaws are wide enough to insert the accessory.
2. **To Insert an Accessory:** Insert the drill bit or screwdriver bit fully into the chuck jaws.
3. **To Close the Chuck:** Rotate the chuck sleeve (1) clockwise until the jaws firmly grip the accessory. Hand-tighten for maximum grip.
4. **To Remove an Accessory:** Rotate the chuck sleeve (1) counter-clockwise to loosen the jaws and remove the accessory.

6. Operating Instructions



Figure 3: A user demonstrating the Dewalt DCD796M2 in a drilling application, highlighting its use in a practical work environment.

6.1 Powering On/Off and Speed Control

- **To Turn On:** Squeeze the trigger switch (6). The tool speed is variable and controlled by the amount of trigger depression.
- **To Turn Off:** Release the trigger switch (6).
- **Forward/Reverse:** Use the forward/reverse selector (5) to choose the rotation direction. Push left for forward, right for reverse. Center position locks the trigger.
- **Speed Selection:** Use the two-speed gear selector (4) to choose between high speed (2) for drilling and low speed (1) for screwdriving or high torque applications.

6.2 Selecting Operating Mode

Rotate the mode selector (3) to choose the desired operating mode:

- **Drill Mode:** For drilling in wood, metal, and plastic.
- **Hammer Drill Mode:** For drilling in masonry and concrete.
- **Screwdriver Mode:** For driving and removing screws, with adjustable torque.

6.3 Adjusting Torque

In screwdriver mode, rotate the torque adjustment ring (2) to select the desired torque setting from 1 to 15. Higher numbers indicate higher torque. Start with a lower setting and increase as needed to prevent overtightening or stripping screws.

6.4 LED Work Light

The integrated LED work light (7) activates when the trigger is pressed, illuminating the work area. It has three levels of brightness for optimal visibility.

7. Maintenance

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

7.1 Cleaning

- Keep the ventilation slots clean to prevent overheating.
- Regularly clean the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Remove any dust or debris from the chuck jaws.

7.2 Storage

- Store the tool and batteries in a cool, dry place, away from direct sunlight and moisture.
- Store the tool in its T-STAK case for protection during transport and storage.
- Ensure batteries are partially charged (around 50%) before long-term storage.

7.3 Battery Care

- Do not expose batteries to extreme temperatures or direct sunlight.
- Do not short-circuit the battery terminals.
- Dispose of old batteries responsibly according to local regulations.

8. Troubleshooting

This section addresses common issues you might encounter with your DCD796M2.

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or improperly installed. Trigger lock engaged.	Ensure battery is fully charged and correctly inserted. Check forward/reverse selector is not in the center (locked) position.
Reduced power or speed.	Battery charge low. Tool overheating.	Recharge the battery. Allow the tool to cool down if it has been used continuously.
Chuck not holding bit securely.	Chuck not tightened sufficiently. Debris in chuck jaws.	Ensure chuck is hand-tightened firmly. Clean chuck jaws of any dust or debris.
Excessive vibration.	Bent or damaged accessory. Improperly seated accessory.	Replace damaged accessories. Ensure the accessory is fully and correctly seated in the chuck.

9. Technical Specifications

Specification	Value
Model Number	DCD796M2
Voltage	18 V
Power Output	460 W
No-Load Speed (Gear 1 / Gear 2)	0-550 / 0-2000 RPM

Specification	Value
Impact Rate (Gear 1 / Gear 2)	0-9350 / 0-34000 BPM
Max. Torque (Hard / Soft)	70 / 27 Nm
Max. Drilling Capacity (Wood)	40 mm
Max. Drilling Capacity (Metal)	13 mm
Max. Drilling Capacity (Masonry)	13 mm
Chuck Capacity	1.5 - 13 mm
Battery Type	Li-ion
Battery Capacity	4.0 Ah
Weight (with battery)	Approximately 4.81 kg
Dimensions (L x W x H)	43.9 x 12.9 x 35.5 cm

10. Warranty and Support

Dewalt products are manufactured to high-quality standards and are subject to rigorous testing. This product comes with a standard manufacturer's warranty. For detailed warranty information, service, or technical support, please refer to the warranty card included with your product or visit the official Dewalt website. Keep your proof of purchase for warranty claims.

For further assistance, you may contact Dewalt customer service or your local authorized service center. Contact information can typically be found on the Dewalt website or in your product documentation.

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