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DEWALT DCD100YD2T-QW

DeWALT DCD100YD2T-QW 18V 2Ah Cordless Hammer Drill Instruction Manual

Model: DCD100YD2T-QW | Brand: DEWALT

1. Introduction and Overview

The DeWALT DCD100YD2T-QW Cordless Hammer Drill is a versatile and powerful tool designed for both professional and DIY applications. It combines robust performance with user-friendly features, making it suitable for drilling and driving tasks in various materials including wood, metal, and masonry.

Key features include a powerful brushless motor for extended runtime and durability, a 2-speed all-metal gearbox for optimal power transmission, and a 15-level torque module for precise screwdriving. Its compact design and ergonomic rubberized grip ensure comfortable operation even during prolonged use.



Figure 1: DeWALT DCD100YD2T-QW Cordless Hammer Drill kit with accessories.

2. Safety Instructions

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

- **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 (e.g., pipes, radiators, ranges, refrigerators). Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating hammer drills. Wear appropriate clothing; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. 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.
- **Battery Pack Safety:** Do not disassemble, open or shred battery packs. Do not expose battery packs to heat or fire. Avoid storage in direct sunlight.

3. Package Contents

Your DeWALT DCD100YD2T-QW Cordless Hammer Drill package typically includes the following items:

- 1 x DeWALT DCD100YD2T-QW Cordless Hammer Drill
- 2 x 18V 2Ah Li-Ion Batteries
- 1 x Battery Charger
- 1 x T-Stak Case for storage and transport

4. Setup

4.1 Battery Installation and Removal

To install the battery, align the battery pack with the slot in the tool's handle and slide it in until it clicks securely into place. To remove, press the battery release button (usually located at the front of the battery) and slide the battery out of the tool.



Figure 2: Installing the battery pack.

4.2 Charging the Battery

Connect the charger to a power outlet. Insert the battery pack into the charger. The charger's indicator light will show the charging status. Refer to the charger's specific instructions for detailed charging times and indicator meanings. Ensure batteries are fully charged before first use.

4.3 Installing and Removing Drill Bits/Accessories

The drill features a keyless chuck for quick and easy bit changes. To install a bit, rotate the chuck counter-clockwise until the jaws are open wide enough to insert the bit. Insert the bit fully into the chuck, then rotate the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly gripped before operation. To remove, rotate the chuck counter-clockwise to loosen the jaws and pull the bit out.



Figure 3: Adjusting the drill chuck.

5. Operating Instructions

5.1 Speed Settings

The drill features a 2-speed gearbox, allowing you to select the appropriate speed for your application. Use lower speeds (Gear 1) for high-torque applications like driving large screws or drilling large holes. Use higher speeds (Gear 2) for faster drilling in smaller diameters or lighter driving tasks.

5.2 Torque Settings and Mode Selector

The 15-position adjustable torque control collar allows you to set the desired torque for screwdriving applications, preventing over-tightening or stripping screws. Rotate the collar to align the desired torque setting with the indicator mark. For drilling, select the drill symbol (for wood/metal) or the hammer drill symbol (for masonry) on the collar.

5.3 Trigger and Forward/Reverse Switch

The variable speed trigger allows for precise control over the drilling/driving speed. Press the trigger lightly for slower speeds and increase pressure for higher speeds. The forward/reverse switch, located above the trigger, allows you to change the rotation direction for driving or removing screws.

5.4 Drilling and Driving Techniques

- **Drilling Wood/Metal:** Select the drill mode. Apply steady, even pressure. For metal, use appropriate cutting fluid and start with a pilot hole for larger diameters.
- **Drilling Masonry:** Select the hammer drill mode. Apply firm, consistent pressure. Use masonry drill bits.
- **Screwdriving:** Select the appropriate torque setting. Start with a low torque and increase if necessary. Ensure the screwdriver bit is fully engaged with the screw head.



Figure 4: Drilling into wood.



Figure 5: Drilling into masonry.

6. Maintenance

6.1 Cleaning

Regularly clean the ventilation slots of the tool to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Wipe the tool's exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Battery Care and Storage

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to store batteries at approximately 50% charge. Do not store fully discharged batteries.

6.3 General Storage

When not in use, store the drill and its accessories in the provided T-Stak case in a secure, dry location, out of reach of children.

7. Troubleshooting

- **Tool not starting:** Ensure the battery is fully charged and properly inserted. Check if the forward/reverse switch is in the neutral (locked) position.
- **Reduced power/performance:** The battery may be low on charge. Recharge the battery. Ensure the correct speed and torque settings are selected for the task.
- **Overheating:** This can occur with prolonged heavy use. Allow the tool to cool down. Ensure ventilation slots are

clear of debris.

- **Bit slipping in chuck:** Ensure the chuck is tightened securely. The bit shank might be dirty or damaged.

If problems persist, contact DeWALT customer support or an authorized service center.

8. Specifications

Feature	Specification
Manufacturer	DeWalt
Model Number	DCD100YD2T-QW
Product Dimensions (L x W x H)	43.5 x 35.5 x 12.5 cm; 3.9 kilograms
Color	Yellow
Power Source Type	Battery Powered
Voltage	18 Volts
Maximum Torque	68 Newton-meters
Components Included	2 x 2Ah batteries, charger, T-Stak case
Battery(ies) Included	No (referring to initial purchase, but kit includes 2)
Battery(ies) Required	Yes
Battery Capacity	2 Amp-hours
Number of Speeds	2
Drill Type	Hammer Drill
Chuck Width	1.5 to 13 mm
Drilling Capacity (Wood/Metal/Stone)	30 / 13 / 13 mm
No-load Speed	0 to 7,650 / 28,050 rpm
Weight (with 2Ah battery)	1.5 kg

9. Warranty and Support

For information regarding warranty coverage, service, or spare parts availability, please refer to the official DeWALT website or contact DeWALT customer support directly. Keep your proof of purchase for warranty claims.

Official DeWALT Website: www.dewalt.com

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