DEWALT DCF870B

DEWALT 20V MAX XR 1/4 Inch Cordless Quiet Hydraulic Impact Driver

Model: DCF870B
Brand: DEWALT

1. Introduction

The DEWALT 20V MAX* XR Brushless Cordless 1/4 in. Quiet Hydraulic Impact Driver (DCF870B) is engineered for completing framing, cabinetry, and other applications in tight areas with reduced noise disturbance. Its advanced hydraulic mechanism ensures consistent performance for demanding tasks.
Key features include:

- Up to 57% quieter operation compared to traditional impact drivers.
- Industry's highest rated max torque hydraulic impact driver.
- Up to 40% faster driving for quick task completion.





Figure 1.1: Front view of the DEWALT DCF870B Quiet Hydraulic Impact Driver.

2. Important Safety Information

Always read and understand all instructions before operating this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear appropriate eye, ear, and respiratory protection. Use safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- **Battery Tool Use and Care:** Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

3. Included Components

The DCF870B package includes the following:

- (1) DCF870 XR® 1/4" Quiet Hydraulic Impact Driver (Bare Tool Only)
- (1) Belt Hook

Battery and charger are sold separately.



Figure 3.1: Labeled components of the DEWALT DCF870B Impact Driver, including the integrated 9 LED work light, brushless motor, 1/4 in. quick-connect hex chuck, variable speed trigger, and 2-speed mode select.

4. Setup

4.1 Battery Installation

To install the battery, align the battery pack with the tool's battery port and slide it in until it clicks securely into place. To remove, press the battery release button and slide the battery out.

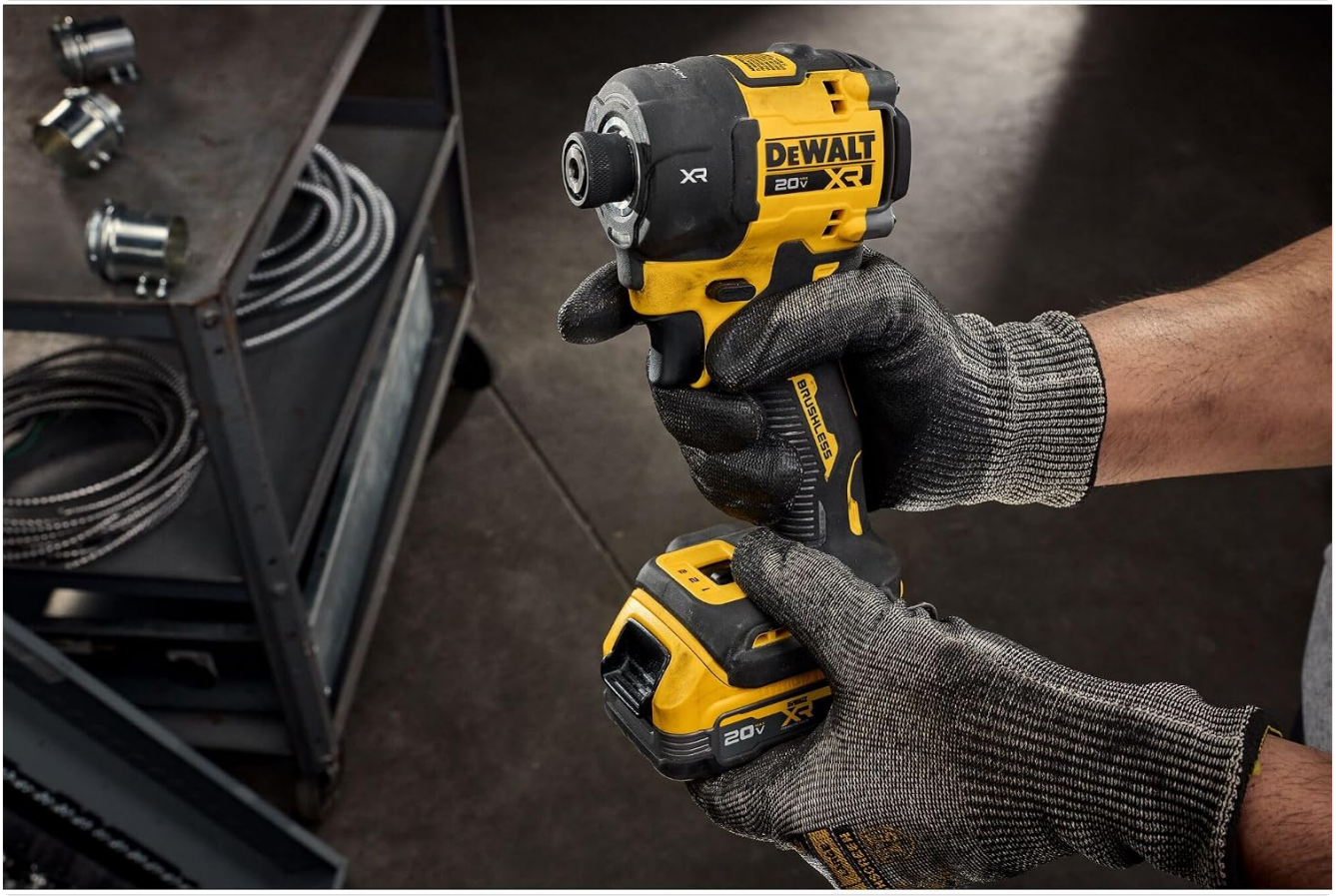


Figure 4.1: Proper grip and battery attachment for the DEWALT Impact Driver.

4.2 Bit Installation

The 1/4 inch quick-connect hex chuck allows for easy bit changes. Pull the collar forward, insert the hex shank bit, and release the collar to lock the bit in place. Ensure the bit is fully seated before operation.

5. Operating Instructions

5.1 Powering On/Off and Variable Speed Trigger

The tool is activated by pressing the variable speed trigger. The speed of the tool is controlled by the amount of trigger depression. The further the trigger is pressed, the higher the speed.
To turn off the tool, release the trigger.

5.2 Forward/Reverse Switch

The forward/reverse switch is located above the trigger. Push the switch to the left for forward rotation (tightening) and to the right for reverse rotation (loosening). Center position locks the trigger for safety.

5.3 Speed and Mode Selection

The DCF870B features a 2-speed mode select button located on the base of the tool, allowing you to choose between different RPM settings for various applications:

- **Mode 1 (Low Power):** Up to 900 RPM. Ideal for precision work or when less torque is required.
- **Mode 2 (High Power):** Up to 2000 RPM. For demanding applications requiring maximum power.

The tool also includes specialized modes for specific tasks:

- **Precision Wrench Mode:** Prevents over-tightening and fastener run-off.

- **Timber Screw Mode (Lag Screw Mode):** Optimized for wood applications.



Figure 5.1: The 2-speed mode select and 20-minute work light mode button on the tool's base.

5.4 LED Work Light

The integrated 9 LED work light illuminates the work area. It features a 20-minute work light mode, which can be activated by pressing the light button on the base of the tool. This is particularly useful in dark or confined spaces.



Figure 5.2: The bright LED work light provides illumination in low-light conditions.

6. Maintenance

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

- **Cleaning:** Keep the tool clean and free of dust and debris. Use a soft, damp cloth for cleaning. Do not use harsh chemicals.
- **Storage:** Store the tool in a dry, secure location away from direct sunlight and extreme temperatures.
- **Battery Care:** Store batteries in a cool, dry place. Do not store batteries in a discharged condition.

7. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or improperly installed.	Ensure battery is fully charged and properly seated.
Reduced power or performance.	Low battery charge; incorrect speed setting.	Recharge battery; select higher speed mode.
Tool stops during operation.	Overload protection activated.	Reduce load; allow tool to cool down.

8. Specifications

Feature	Detail
Brand	DEWALT
Model Number	DCF870B
Power Source	Battery Powered
Voltage	20 Volts
Amperage	5 Amps
Maximum Rotational Speed	3000 RPM
Maximum Chuck Size	0.25 Inches
Maximum Torque	500 Inch Pounds
Number of Speeds	2
Item Weight	2.55 pounds
Product Dimensions	4.6 x 3.4 x 8.23 inches
Material	Blend, Metal
Color	Black, Yellow
Country of Origin	China

9. Warranty

For detailed warranty information, please refer to the official DEWALT website or the warranty card included with your product. DEWALT typically offers a limited warranty on its power tools, covering defects in material or workmanship.

10. Customer Support

For further assistance, technical support, or to locate authorized service centers, please visit the official DEWALT website or contact their customer service line.
Official DEWALT Store: Visit the DEWALT Store on Amazon

About DEWALT

Your browser does not support the video tag.

Video 10.1: An official brand video from DEWALT, showcasing their commitment to building tough tools for professionals.