DEWALT DCF887N

DEWALT DCF887N XR 18V 3-Speed Brushless Impact Driver Instruction Manual

Model: DCF887N | Brand: DEWALT

1. Introduction

This instruction manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DEWALT DCF887N XR 18V 3-Speed Brushless Impact Driver. Please read this manual thoroughly before using the tool and retain it for future reference.



Image 1: The DEWALT DCF887N XR 18V 3-Speed Brushless Impact Driver.

2. General Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Keep this manual for future reference.

Work Area Safety

- Keep the 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to a power source, picking up or carrying the tool.

3. Product Overview and Components

Familiarize yourself with the various parts of your DEWALT DCF887N Impact Driver for safe and efficient operation.



Image 2: Key components of the DEWALT DCF887N Impact Driver.

- **Chuck Collar:** Used for quick and secure bit insertion and removal.
- **Worklight:** Illuminates the work area for improved visibility.
- **Trigger Switch:** Activates the tool and controls speed.
- **Forward/Reverse Button:** Changes the direction of rotation.
- **Belt Hook:** Conveniently attaches the tool to a belt or pocket.



Image 3: Detailed view of the trigger switch, chuck collar, and work lights.



Image 4: Close-up of the impact driver's chuck collar for bit insertion.



Image 5: Detail of the integrated belt hook.

4. Specifications

The following table outlines the technical specifications for the DEWALT DCF887N Impact Driver.



Image 6: Key specifications of the DEWALT DCF887N Impact Driver.

Specification	Value
Brand	DEWALT
Model Number	DCF887N (Also referred to as DCF850NT-XJ)
Power Source	Battery Powered
Voltage	18 Volts
Maximum Rotational Speed	3250 RPM
Maximum Torque	205 Newton Meters
Number of Speeds	3
Item Weight	1 Kilogram (2.2 pounds)
Drill Type	Impact Driver
Battery Cell Type	Lithium Ion (Batteries required, not included)
Special Feature	Lock Speed Button
Product Dimensions	1"L x 1"W x 1"H (Approximate)

5. Setup

Battery Installation and Removal

1. Ensure the tool is switched off before installing or removing the battery.
2. To install, align the battery pack with the tool's battery port and slide it in until it clicks securely into place.
3. To remove, press the battery release button (if present) and slide the battery pack out.

Bit Insertion and Removal

1. Pull the chuck collar forward to open the bit holder.
2. Insert the hex shank of the accessory bit fully into the chuck.
3. Release the chuck collar. The bit should be securely held. Tug on the bit to ensure it is locked.
4. To remove, pull the chuck collar forward and pull the bit out.

6. Operating Instructions

Powering On/Off

- To turn the tool on, depress the trigger switch.
- To turn the tool off, release the trigger switch.

Speed Selection

The DCF887N features 3 speed settings for various applications.

1. Locate the speed selector switch, typically near the base of the handle.
2. Slide the switch to select the desired speed (1, 2, or 3). Lower speeds are for delicate work or starting fasteners, higher speeds for rapid driving.

Forward/Reverse Operation

- The forward/reverse button is located above the trigger switch.
- Push the button to the left for forward rotation (driving fasteners).
- Push the button to the right for reverse rotation (removing fasteners).
- Ensure the button is in the center position for trigger lock-off when not in use.



Image 7: The ergonomic design of the impact driver, shown in use.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your impact driver.

Cleaning

- Keep the ventilation slots clear and free of dust and debris. Use compressed air to clean the tool periodically.
- Wipe the tool 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 from the tool when storing for extended periods.

8. Troubleshooting

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed; Trigger lock engaged.	Charge battery and ensure proper installation; Disengage trigger lock.
Reduced power or performance	Low battery charge; Incorrect speed setting for task.	Recharge battery; Select a higher speed setting.
Bit not holding securely	Chuck collar not fully released; Incorrect bit type.	Ensure chuck collar snaps back into place; Use hex shank impact-rated bits.
Overheating	Continuous heavy use; Blocked ventilation slots.	Allow tool to cool down; Clean ventilation slots.

9. Warranty Information

DEWALT products are engineered to the highest standards and are subject to rigorous quality control. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms, conditions, and registration, please refer to the warranty card included with your purchase or visit the official DEWALT website.

10. Support and Contact Information

For further assistance, technical support, or service inquiries, please contact DEWALT customer care.



Image 8: DEWALT Total Care Customer Support Information.

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Number of Authorized Service Centers: 500+

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