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DEWALT DCD791NT-XJ

DEWALT DCD791NT-XJ 18V XR Cordless Drill Driver

Instruction Manual

INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your DEWALT DCD791NT-XJ 18V XR Cordless Drill Driver. Please read this manual thoroughly before operating the tool and keep it for future reference. This compact and powerful drill driver features a brushless motor, 2-speed all-metal gearbox, 15-stage torque control, and an integrated LED light for versatile and precise applications.

GENERAL SAFETY INSTRUCTIONS

WARNING: Read 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 eye protection.
- Wear hearing protection when operating for extended periods.
- Keep work area clean and well-lit.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep children and bystanders away while operating a power tool.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Use appropriate accessories for the task.
- Ensure the tool is switched off before making any adjustments, changing accessories, or storing power tools.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.
- Use the power tool, accessories, and tool bits in accordance with these instructions, taking into account the working conditions and the work to be performed.

PRODUCT OVERVIEW

The DEWALT DCD791NT-XJ is a versatile 18V XR Cordless Drill Driver designed for drilling and fastening applications. Key components include:

- **Brushless Motor:** Provides extended runtime and durability.
- **13mm Metal Chuck:** For secure bit retention.
- **2-Speed Gearbox:** Offers optimal speed for various tasks.

- **Torque Adjustment Collar:** 15 settings for precise fastening.
- **LED Work Light:** Illuminates the work area.
- **Ergonomic Grip:** For comfortable handling.
- **Belt Clip:** For convenient carrying.
- **Magnetic Bit Holder:** For easy access to bits.



Figure 1: DEWALT DCD791NT-XJ 18V XR Cordless Drill Driver. This image shows the overall design of the drill driver, highlighting its compact form factor and key features like the chuck and ergonomic handle.



Figure 2: Close-up view of the brushless motor area on the DEWALT DCD791NT-XJ, indicating its advanced motor technology.



Figure 3: Detail of the 15-stage torque adjustment collar on the DEWALT DCD791NT-XJ, allowing for precise control during fastening tasks.



Figure 4: Close-up of the integrated LED work light on the DEWALT DCD791NT-XJ, designed to illuminate the work area.



Figure 5: View of the ergonomic rubberized grip on the DEWALT DCD791NT-XJ, designed for user comfort and secure handling.

SETUP

1. Battery Installation and Removal

The DEWALT DCD791NT-XJ is compatible with DEWALT 18V XR Li-ion batteries (sold separately).

- **To Install:** Align the battery pack with the tool's battery port. Slide the battery into the tool until it clicks securely into place.
- **To Remove:** Press the battery release button and pull the battery pack out of the tool.

Ensure the battery is fully charged before first use. Refer to your battery charger's manual for charging instructions.

2. Chuck Operation and Bit Installation

The drill driver features a 13mm metal chuck for holding drill bits and screwdriver bits.

- **To Open Chuck:** Rotate the chuck collar counter-clockwise until the jaws are wide enough to insert the bit.
- **To Install Bit:** Insert the desired drill bit or screwdriver bit fully into the chuck jaws.
- **To Close Chuck:** Rotate the chuck collar clockwise until the bit is securely clamped. Hand-tighten firmly.

Always ensure the bit is centered and securely tightened to prevent slippage and potential injury.

OPERATING INSTRUCTIONS

1. Powering On/Off and Speed Control

- **To Power On:** Squeeze the trigger switch. The tool speed increases as you increase pressure on the trigger.
- **To Power Off:** Release the trigger switch.
- **Variable Speed:** The trigger switch provides variable speed control.

2. Forward/Reverse Control

The forward/reverse button is located above the trigger switch.

- **Forward Rotation:** Push the button to the left for clockwise rotation (for drilling and driving screws).
- **Reverse Rotation:** Push the button to the right for counter-clockwise rotation (for removing screws or freeing jammed bits).
- **Lock-Off:** Position the button in the center to lock the trigger and prevent accidental starting.

3. Gear Selection (2-Speed Gearbox)

The tool features a 2-speed all-metal gearbox. The gear selector switch is located on top of the tool.

- **Gear 1 (Low Speed, High Torque):** Select for heavy-duty drilling and driving large fasteners. (0-550 RPM)
- **Gear 2 (High Speed, Low Torque):** Select for light-duty drilling and driving small fasteners. (0-2000 RPM)

Always ensure the tool is stopped before changing gears to prevent damage to the gearbox.

4. Torque Adjustment (Clutch Settings)

The torque adjustment collar has 15 settings plus a drill mode. This allows you to control the amount of torque applied, preventing over-driving screws or damaging materials.

- **Settings 1-14:** Lower numbers indicate lower torque, suitable for smaller screws and softer materials. Higher numbers indicate higher torque, for larger screws and harder materials.
- **Drill Symbol:** Select this setting for drilling applications, which provides maximum torque without clutch engagement.

Experiment with lower torque settings first and increase as needed for your specific application.

5. LED Work Light

The integrated LED work light illuminates the work surface. It activates when the trigger is pressed and remains on for a short period after the trigger is released.



Figure 6: A construction worker utilizing the DEWALT DCD791NT-XJ drill driver for overhead work, demonstrating its application in a professional setting. The compact design aids in maneuverability.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DEWALT DCD791NT-XJ drill driver.

- **Cleaning:** Keep the ventilation slots clear of dust and debris. Use a soft, damp cloth to clean the tool's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store batteries in a discharged state for extended periods.

- Storage:** When not in use, store the tool, batteries, and charger in a secure, dry place, out of reach of children. The included T-STAK box is ideal for storage and transport.



Figure 7: The DEWALT DCD791NT-XJ drill driver shown with its TSTAK heavy-duty kit box and magnetic bit holder. Note that batteries and charger are sold separately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start.	Battery not installed correctly or discharged. Trigger lock engaged.	Ensure battery is fully inserted and charged. Disengage the trigger lock.
Reduced power or speed.	Low battery charge. Incorrect gear selection. Overload.	Recharge battery. Select a lower gear (Gear 1) for higher torque. Reduce pressure or use a sharper bit.
Bit slips in chuck.	Chuck not tightened sufficiently. Worn bit shank.	Re-tighten chuck firmly. Replace worn bits.
Tool overheats.	Continuous heavy use. Blocked ventilation slots.	Allow tool to cool down. Clear ventilation slots. Avoid prolonged heavy use.

SPECIFICATIONS

Feature	Specification
Model Number	DCD791NT-XJ
Voltage	18 Volts
Power Output	460 Watts
Max Torque	70 Newton-meters
No Load Speed (Gear 1)	0-550 RPM
No Load Speed (Gear 2)	0-2000 RPM
Chuck Capacity	1.5 - 13 mm
Torque Settings	15 + Drill Mode
Weight (without battery)	1.5 Kilograms
Dimensions (L x W x H)	43.5 x 33 x 12.5 cm
Sound Level	44 Decibels
Power Source	Battery Powered
Battery Type Required	1 Lithium-ion (sold separately)

WARRANTY INFORMATION

DEWALT provides a limited warranty for its products. For specific warranty terms and conditions applicable to your DCD791NT-XJ drill driver, please refer to the warranty card included with your purchase or visit the official DEWALT website. Keep your proof of purchase for warranty claims.

SUPPORT

For technical assistance, service, or to purchase replacement parts, please contact DEWALT customer service or visit your nearest authorized service center. Contact information can typically be found on the DEWALT official website or on the product packaging.

Online Resources: www.dewalt.com

Note: No official product videos were provided in the product data for embedding in this manual.

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