DEWALT DCN45RNB

DEWALT 20V MAX Brushless Cordless Coil Roofing Nailer (Model DCN45RNB) Instruction Manual

Your comprehensive guide to safe and effective operation.

1. Introduction

Thank you for choosing the DEWALT 20V MAX Brushless Cordless Coil Roofing Nailer, Model DCN45RNB. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your tool. Please read this manual thoroughly before initial use and retain it for future reference.

2. General Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Failure to follow these instructions may result in serious injury.

- **Wear Eye Protection:** Always wear ANSI Z87.1 compliant eye protection with side shields.
- **Wear Hearing Protection:** Prolonged exposure to noise from power tools can cause hearing damage.
- **Dress Properly:** Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **Maintain a Secure Grip:** Always hold the tool firmly with both hands during operation.
- **Keep Work Area Clear:** Ensure the work area is well-lit and free of clutter.
- **Disconnect Power:** Always remove the battery pack before making adjustments, changing accessories, or storing the tool.
- **Use Correct Nails:** Only use nails specified for this roofing nailer.

3. Product Components

Familiarize yourself with the various parts of your DEWALT Roofing Nailer for proper and safe operation.



Figure 3.1: Overall view of the DEWALT 20V MAX Brushless Cordless Coil Roofing Nailer. This image displays the main body, handle, battery housing, and the coil nail tray.

- **Battery Port:** Location for inserting the 20V MAX battery.
- **Handle:** Ergonomic grip for user comfort and control.
- **Trigger:** Activates the nailing mechanism.
- **Coil Nail Tray:** Holds a coil of roofing nails. Features a tool-free adjustment.
- **Depth Adjustment Dial:** Controls the depth of nail penetration.
- **Mode Selector:** Switches between sequential and bump firing modes.
- **LED Work Light:** Illuminates the work surface.



Figure 3.2: The DEWALT Roofing Nailer with its tool-free nail tray opened, demonstrating accessibility for nail loading and adjustment.

4. Setup

4.1 Battery Installation

1. Ensure the nailer is turned off.
2. Align the battery pack with the battery port on the tool.
3. Slide the battery pack into the port until it clicks securely into place.
4. To remove, press the battery release button and slide the battery out.

4.2 Loading Nails

The tool-free nail tray is designed for easy loading of various roofing nail sizes.

1. Open the nail tray by releasing the latch mechanism.

2. Place a coil of roofing nails into the tray, ensuring the nails are properly oriented.
3. Feed the first nail into the firing mechanism track.
4. Close the nail tray securely until it latches.

5. Operating Instructions

5.1 Powering On and Firing Modes



Figure 5.1: Detail of the mode selector switch, allowing selection between sequential and bump firing modes.

The nailer features a mode selector for different firing operations:

- **Sequential Firing Mode:** For precise nail placement. The contact trip must be pressed against the work surface, and then the trigger pulled to fire a nail. This sequence must be repeated for each nail.
- **Bump Firing Mode:** For high-efficiency, rapid nailing. Hold the trigger, then press the contact trip against the work surface to fire a nail. Nails will fire as long as the trigger is held and the contact trip is bumped against the surface. This mode is ideal for productivity on large areas.

5.2 Adjusting Nail Depth



Figure 5.2: The depth adjustment dial, used to control how deep nails are driven into the material.

The depth adjustment dial allows you to control the depth at which nails are driven. Rotate the dial to increase or decrease the nail depth. Test on a scrap piece of material to achieve the desired depth before beginning work.

5.3 LED Indicators



Figure 5.3: Top view of the nailer displaying the battery status and error indicators.

The tool features LED indicators to provide operational status:

- **Battery Indicator:** Shows the remaining battery charge.
- **Error Indicator:** Illuminates to signal a tool malfunction or jam.

6. Maintenance

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

- **Cleaning:** Keep the tool clean and free of debris. Use a dry cloth to wipe down surfaces. Do not use solvents or harsh chemicals.
- **Inspection:** Periodically inspect the tool for damaged parts, loose screws, or any other condition that may affect its safe operation.
- **Storage:** Store the tool in a dry, secure location out of reach of children. Remove the battery pack before storage.
- **Lubrication:** This tool features a brushless motor and typically requires no internal lubrication. Refer to the official DEWALT service manual for specific lubrication requirements if any.

7. Troubleshooting

Before performing any troubleshooting, ensure the battery is removed from the tool.

Problem	Possible Cause	Solution
Nailer does not fire	Battery not charged or improperly inserted; Mode selector incorrect; Safety contact not fully depressed.	Charge battery and reinsert; Select correct firing mode; Ensure contact trip is fully depressed against work surface.
Nails jam frequently	Incorrect nail size or type; Damaged nails; Debris in firing mechanism.	Use recommended DEWALT roofing nails; Inspect nails for damage; Clear any debris from the nail path and firing mechanism.
Nails not driven to full depth	Depth adjustment set too shallow; Low battery charge; Inconsistent pressure.	Adjust depth setting deeper; Recharge battery; Apply consistent, firm pressure to the tool.

8. Specifications

Feature	Detail
Model Number	DCN45RNB
Voltage	20 Volts
Item Weight	6.7 pounds
Product Dimensions	15 x 14 x 6 inches
Motor Type	Brushless
Nail Tray	Tool-Free Adjustable

9. Warranty and Support

For warranty information, service, or technical support, please refer to the official DEWALT website or contact DEWALT customer service directly. Keep your proof of purchase for warranty claims.
DEWALT Official Website: www.dewalt.com

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