DEWALT DCN623D1

DEWALT ATOMIC Compact Series™ 20V MAX* Brushless Cordless 23 Ga. Pin Nailer Kit

Model: DCN623D1

1. Product Overview

The DEWALT ATOMIC Compact Series™ 20V MAX* Brushless Cordless 23 Ga. Pin Nailer is designed for precision finish, trim, and remodeling work. This battery-powered nailer efficiently drives 23 Ga. pin nails ranging from 5/8 inch to 1-1/2 inches in length, utilizing a high-output brushless motor for cordless convenience without the need for hoses, compressors, or gas cartridges.



Image: The DEWALT ATOMIC Compact Series 23 Ga. Pin Nailer Kit, including the nailer, a carrying bag, a 20V MAX* Compact 2.0Ah

Battery Pack, and a charger.

Included Components:

- DCN623 DEWALT 20V MAX* 23 Ga. Cordless Pin Nailer
- DCB203 DEWALT 20V MAX* Compact 2.0Ah Battery Pack
- DCB112 20V MAX* Charger
- Kit Bag



Image: A visual representation of the kit contents, highlighting the nailer, battery, charger, and kit bag.

2. Setup

2.1 Battery Installation

Insert the 20V MAX* Compact 2.0Ah Battery Pack into the base of the nailer until it clicks securely into place. Ensure the

battery is fully charged using the provided DCB112 charger before initial use. The nailer is compatible with other DEWALT 20V MAX* batteries, though larger batteries may increase the tool's weight.

2.2 Loading Pin Nails

To load pin nails, open the nail magazine. Insert the pin nails into the magazine, ensuring they are oriented correctly with the arrow on the nail strip facing downwards, towards the firing end of the tool. Slide the nail strip all the way to the left margin of the loading area. Close the magazine securely. The nailer supports 23 Ga. pin nails from 5/8 inch up to 1-1/2 inches in length.

3. Operating Instructions

3.1 Safety Precautions

WARNING: Always wear safety glasses when operating the pin nailer. Nails can ricochet or pop back out if they hit an obstruction like another nail or screw, posing a risk of eye injury.

3.2 Firing Mechanism

To fire a nail, the tool requires two triggers to be pressed in sequence. First, press the lower trigger (contact trip) against the workpiece. Then, press the main trigger to actuate the nailer. This two-step process enhances safety during operation.



Image: An annotated view of the pin nailer, highlighting key features such as tool-free jam release, tool-free depth adjust, serviceable driver blade, brushless motor, and low nail lockout LED.

3.3 Applications and Nail Visibility

This pin nailer is ideal for delicate applications such as trim work and molding where minimal nail holes are desired. The 23 Ga. pins create extremely small holes that are barely visible, often requiring little to no filling after installation.



Image: The pin nailer being used to secure trim to a wall, demonstrating its application in finish carpentry.

3.4 Performance

The DCN623D1 is designed to drive approximately 2,000 nails on average per charge when using 1-inch pins in 2X SPF lumber with the included DEWALT DCB203 2.0Ah battery.



Image: A graphic indicating the nailer's capacity to drive 2,000 nails per charge.

3.5 Compact Design

The ATOMIC Compact Series™ design ensures the tool is lightweight and easy to handle, making it suitable for extended use and working in confined spaces. Its compact dimensions contribute to improved maneuverability.



Image: The pin nailer held in hand, illustrating its compact size with dimensions of 9.20 inches in height and 8.30 inches in length.

4. Maintenance

Regular maintenance ensures the longevity and optimal performance of your DEWALT Pin Nailer.

- **Tool-Free Jam Release:** In case of a nail jam, utilize the tool-free jam release mechanism to quickly clear obstructions without requiring additional tools.
- **Serviceable Driver Blade:** The driver blade is designed to be serviceable, allowing for maintenance or replacement if necessary to maintain consistent performance.
- **General Cleaning:** Keep the tool clean and free of debris. Use a dry cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners.

5. Troubleshooting

Common issues and their solutions:

- **Nailer Not Firing:**
  - Ensure the battery is fully charged and properly seated.
  - Verify that both the contact trip (lower trigger) and the main trigger are pressed correctly and in sequence.
  - Check for a nail jam using the tool-free jam release.
- **Low Nail Lockout:** The tool features a low nail lockout system with an LED indicator. If the LED illuminates, it signifies that the nail magazine is nearly empty and requires reloading to prevent dry firing and potential damage to the workpiece or tool.
- **Nails Not Driving Fully:**
  - Adjust the tool-free depth adjust mechanism to increase the driving depth.
  - Ensure the correct nail length is being used for the material.

6. Specifications

Feature	Detail
Brand	DEWALT
Model Number	DCN623D1
Power Source	Battery Powered (20V MAX*)
Nail Gauge	23 Ga. Pin Nails
Nail Length Compatibility	5/8 in. to 1-1/2 in.
Motor Type	Brushless
Product Dimensions (L x W x H)	9.89"L x 4.84"W x 12.35"H
Item Weight	0.01 Ounces (tool only, without battery)
Battery Cell Composition	Lithium Ion
Speed	3500 RPM (likely motor speed, not firing rate)
Material	Blend

7. Warranty Information

For detailed warranty information regarding your DEWALT ATOMIC Compact Series™ 20V MAX* Brushless Cordless 23 Ga. Pin Nailer Kit (DCN623D1), please refer to the warranty card included with your product or visit the official DEWALT website. Warranty terms and conditions may vary by region and product.

8. Support

Should you require further assistance, technical support, or have questions not covered in this manual, please contact DEWALT customer service. Visit the official DEWALT website for contact details and additional resources.

You can also visit the DEWALT Store on Amazon for more product information and accessories.

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*Maximum initial battery voltage (measured without a workload) is 20 volts. Nominal voltage is 18 volts.

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