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Ryobi P320

Ryobi 18 Volt Air Strike Brad Nailer

Model: P320

Includes: (2) Batteries P102 + Charger P118

1. Introduction

The Ryobi 18 Volt Air Strike Brad Nailer (Model P320) is a versatile and efficient tool designed for various fastening applications, particularly trim work. This cordless brad nailer eliminates the need for an air compressor, offering enhanced portability and convenience. It is compatible with 5/8-inch to 2-inch brad nails.



Figure 1: Ryobi 18 Volt Air Strike Brad Nailer Kit

2. Key Features

- Cordless operation, eliminating the need for an air compressor.
- Accepts 5/8-inch to 2-inch 18-gauge brad nails.
- Adjustable depth of drive for precise nail placement.
- Adjustable airflow for optimal performance across different wood types.
- Selectable firing modes: single fire and bump fire.
- Integrated LED work light for improved visibility.
- Belt hook for convenient portability.

3. Components Included

Your Ryobi 18 Volt Air Strike Brad Nailer kit typically includes:

- Ryobi 18 Volt Air Strike Brad Nailer (P320)
- Two (2) Ryobi 18V Lithium-Ion Batteries (P102)

- One (1) Ryobi 18V Battery Charger (P118)



Figure 2: Ryobi 18V Lithium-Ion Battery



Figure 3: Ryobi 18V Battery Charger

4. Setup

4.1. Battery Installation

1. Ensure the battery is fully charged using the provided charger.
2. Align the battery with the battery port at the base of the nailer handle.

3. Slide the battery into the port until it clicks securely into place.

4.2. Loading Brad Nails

1. Locate the nail magazine on the side of the nailer.
2. Pull back the pusher mechanism until it locks into the open position.
3. Insert a strip of 18-gauge brad nails (5/8-inch to 2-inch) into the magazine with the points facing forward.
4. Release the pusher mechanism, allowing it to push the nails forward.



Figure 4: Nail Magazine for Loading Brad Nails

5. Operation

5.1. Adjusting Depth of Drive

The depth gauge, located near the nose of the nailer, allows you to control how deep the nail is driven into the material. Rotate the adjustment knob to move the depth gauge in or out, setting the desired nail depth.



Figure 5: Depth Adjustment Mechanism

5.2. Adjusting Airflow

An airflow adjustment dial is located at the back of the nailer. This allows you to fine-tune the air pressure for different material densities, ensuring optimal nail penetration in both harder and softer woods.



Figure 6: Airflow Adjustment Dial

5.3. Selecting Firing Mode

The nailer features a switch to select between two firing modes:

- **Single Fire:** For precise, individual nail placement. The trigger must be released and re-pressed for each nail.
- **Bump Fire:** For rapid, sequential nailing. Hold the trigger down and press the nose of the tool against the workpiece to drive nails.



Figure 7: Firing Mode Selector Switch

5.4. Using the LED Work Light

Press the dedicated button to activate the integrated LED work light, illuminating your work area for better visibility in low-light conditions.

6. Maintenance

6.1. Clearing Nail Jams

In the event of a nail jam, the nailer is designed for easy clearing:

1. Disconnect the battery from the tool for safety.
2. Locate the quick-release latch on the nose of the nailer.
3. Open the nose assembly by releasing the latch.
4. Carefully remove any jammed or bent nails using pliers if necessary.
5. Close the nose assembly securely until the latch clicks into place.
6. Reinsert the battery.

6.2. General Cleaning

Regularly clean the tool to prevent debris buildup, especially in the nail area, which can lead to misfires. Use a dry cloth to wipe down the exterior. Avoid using harsh chemicals or abrasive cleaners.

7. Troubleshooting

Problem	Possible Cause	Solution
Nailer not firing or misfiring	Low battery; Nail jam; Debris in nail area; Incorrect nail size; Firing arm issue	Charge battery; Clear nail jam (see Section 6.1); Clean nail magazine; Ensure correct nail size (5/8-2in, 18-gauge); If firing arm is broken, contact support.
Nails not fully driven	Insufficient depth setting; Low airflow; Hard material	Increase depth of drive (see Section 5.1); Adjust airflow (see Section 5.2); Consider using shorter nails or a different tool for very hard materials.
Nailer feels heavy on belt	Normal weight with battery	This is typical for a battery-powered tool. Ensure your tool belt is adequately supported.

8. Specifications

- **Manufacturer:** Ryobi
- **Power Source:** Battery-powered (18V Lithium-Ion)
- **Item Package Quantity:** 1 (Nailer, 2 Batteries, Charger)
- **ASIN:** B07BZ96D6Q
- **Date First Available:** April 5, 2018

9. Warranty and Support

This product comes with a 90-day limited warranty. For support or warranty claims, please refer to the contact information provided by the seller or manufacturer at the time of purchase.

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