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## RYOBI ZRP320

# RYOBI ZRP320 ONE+ 18V Cordless 2-inch Brad Nailer Instruction Manual

Model: ZRP320 | Brand: RYOBI

### IMPORTANT SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating this tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury. Keep this manual for future reference. Wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves, when operating the nailer.

### PRODUCT OVERVIEW

The RYOBI ZRP320 ONE+ 18V Cordless 2-inch Brad Nailer is designed for various fastening applications, including trim work, paneling, and other light-duty woodworking projects. This tool utilizes an 18V Lithium-Ion battery (sold separately) and does not require an air compressor, offering cordless convenience.

**This item is  
Factory  
Reconditioned**

Figure 1: RYOBI ZRP320 ONE+ 18V Cordless 2-inch Brad Nailer. This image shows the overall design of the nailer, highlighting its compact and cordless nature.

## SETUP

### 1. Battery Installation

The RYOBI ZRP320 operates with an 18V ONE+ Lithium-Ion battery (sold separately). Ensure the battery is fully charged before use.

1. Align the battery with the battery port on the base of the nailer handle.
2. Slide the battery into the port until it clicks securely into place.
3. To remove, press the release latches on the battery and slide it out.

### 2. Loading Nails

This nailer uses 18-gauge brad nails ranging from 5/8 inch to 2 inches in length.

1. Locate the magazine release latch, typically at the rear of the magazine.
2. Pull back the pusher assembly until it locks into place.
3. Insert a strip of brad nails into the magazine with the points facing forward.
4. Release the pusher assembly to push the nails forward into the firing position.
5. Ensure the low-nail indicator is visible to monitor nail supply.



Figure 2: Magazine of the RYOBI ZRP320 Brad Nailer. This image illustrates the nail magazine where brad nails are loaded for operation.

### 3. Adjusting Depth of Drive

The depth of nail drive can be adjusted to suit different materials and desired finishes.

- Locate the depth adjustment dial or lever on the tool.
- Turn the dial or move the lever to increase or decrease the driving depth. Test on a scrap piece of material to achieve the desired depth.

## OPERATING INSTRUCTIONS

### 1. Selecting Actuation Mode

The ZRP320 features a selectable drive shift for single sequential or contact actuation.

- **Single Sequential Actuation:** For precise nail placement. The trigger must be pulled for each nail.
- **Contact Actuation:** For faster operation. Hold the trigger and press the contact trip against the workpiece to fire nails.

### 2. Firing the Nailer

1. Ensure the battery is installed and nails are loaded.
2. Select the desired actuation mode.
3. Place the nose of the nailer firmly against the workpiece. The contact trip must be compressed.
4. Pull the trigger to drive a nail.
5. The integrated LED lights will illuminate the work area when the trigger is pulled.

**BATTERY  
&  
CHARGER  
SOLD  
SEPARATELY**

Figure 3: Side view of the RYOBI ZRP320 Brad Nailer. This image displays the side of the tool, including the handle, trigger, and depth adjustment area.

## MAINTENANCE

### 1. General Cleaning

- Always remove the battery before performing any maintenance.
- Keep the tool clean and free of debris, especially around the nosepiece and magazine. Use a dry cloth to wipe down the tool.
- Do not use solvents or harsh chemicals, as they may damage plastic parts.

### 2. Dry-Fire Lockout

The dry-fire lockout feature prevents the tool from firing when the magazine is empty, protecting the tool and workpiece. Reload nails when the low-nail indicator shows the magazine is nearly empty.

### 3. Lubrication

Refer to the official RYOBI service manual for specific lubrication requirements. Generally, cordless nailers require minimal lubrication compared to pneumatic models.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Nailer does not fire	<ul style="list-style-type: none"><li>• Battery not installed or discharged</li><li>• Magazine empty (dry-fire lockout engaged)</li><li>• Contact trip not fully compressed</li></ul>	<ul style="list-style-type: none"><li>• Install charged battery</li><li>• Reload nails</li><li>• Ensure nosepiece is firmly against workpiece</li></ul>
Nails not fully driven	<ul style="list-style-type: none"><li>• Depth adjustment too shallow</li><li>• Low battery charge</li><li>• Incorrect nail length for material</li></ul>	<ul style="list-style-type: none"><li>• Adjust depth setting deeper</li><li>• Recharge or replace battery</li><li>• Use appropriate nail length</li></ul>
Nailer jams frequently	<ul style="list-style-type: none"><li>• Damaged nails</li><li>• Incorrect nail size</li><li>• Debris in magazine or nosepiece</li></ul>	<ul style="list-style-type: none"><li>• Use new, undamaged nails</li><li>• Ensure correct 18-gauge brad nails are used</li><li>• Clear any debris from the tool</li></ul>

## SPECIFICATIONS

- **Model:** ZRP320
- **Power Source:** 18V Battery Powered (RYOBI ONE+ system)
- **Nail Gauge:** 18 Gauge
- **Nail Length Range:** 5/8 inch to 2 inches
- **Weight:** Approximately 6.5 pounds (tool only)
- **Special Features:** AirStrike Technology, Selectable Drive Shift (Sequential/Contact), Low-Nail Indicator, LED Work Lights, Dry-Fire Lockout
- **Included Components:** Belt Clip, P320 18-Volt ONE+ Cordless AirStrike 18-Gauge Brad Nailer (Battery and Charger Sold Separately)

## WARRANTY AND SUPPORT

This RYOBI ZRP320 ONE+ 18V Cordless 2-inch Brad Nailer comes with a **90-day limited warranty**. For warranty claims, technical support, or service inquiries, please contact RYOBI customer service or visit their official website. Keep your purchase receipt as proof of purchase.

For further assistance, please refer to the official RYOBI product support channels.