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> RYOBI 18V ONE+ 3" Variable Speed Detail Polisher/Sander Instruction Manual PBF102B

RYOBI PBF102B

RYOBI 18V ONE+ 3" Variable Speed Detail Polisher/Sander Instruction Manual

Model: PBF102B

Brand: RYOBI

INTRODUCTION

This manual provides essential instructions for the safe operation, assembly, maintenance, and troubleshooting of your RYOBI 18V ONE+ 3" Variable Speed Detail Polisher/Sander. Please read this manual thoroughly before using the tool and retain it for future reference.

GENERAL SAFETY INFORMATION

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Read all instructions:** Familiarize yourself with the tool's operation and safety guidelines.
- **Wear eye protection:** Always wear safety goggles or safety glasses with side shields.
- **Secure workpiece:** Always secure the workpiece to prevent movement during operation.
- **Keep work area clean:** Cluttered areas invite accidents.
- **Do not operate in explosive atmospheres:** Do not use power tools in the presence of flammable liquids, gases, or dust.
- **Use the right tool:** Do not force small tools or attachments to do the job of a heavy-duty tool.
- **Disconnect power:** Always remove the battery pack before making any adjustments, changing accessories, or storing the tool.
- **Maintain tools with care:** Keep cutting tools sharp and clean for better and safer performance.
- **Check for damaged parts:** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.

COMPONENTS AND INCLUDED ITEMS

Your RYOBI 18V ONE+ 3" Variable Speed Detail Polisher/Sander (Model PBF102B) includes the following items:

- 18V ONE+ 3" Variable Speed Detail Polisher/Sander (PBF102B)
- Auxiliary Handle
- 3" Foam Hook and Loop Finishing Pad

- 3" Foam Hook and Loop Correcting Pad
- 3" Wool Hook and Loop Pad
- 3" Hook and Loop Backer Pad for Polishing
- 2" Twist and Lock Backer Pad for Sanding
- 2" 60 Grit Twist and Lock Sanding Disc
- 2" 80 Grit Twist and Lock Sanding Disc
- 2" 120 Grit Twist and Lock Sanding Disc
- Operator's Manual



Image: The RYOBI 18V ONE+ 3" Variable Speed Detail Polisher/Sander. The tool is lime green and black, featuring a main handle with a trigger, a battery base, and an auxiliary handle attached to the front. A white wool polishing pad is mounted on the tool's head.

SETUP

Battery Installation

1. Ensure the tool is switched off.
2. Align the ribs on the battery pack with the grooves in the tool's battery port.
3. Slide the battery pack into the tool until it latches securely.
4. To remove, press the release button on the battery pack and slide it out.

Accessory Attachment (Polishing/Sanding Pads)

1. Ensure the battery pack is removed.
2. For 3" polishing pads: Align the 3" hook and loop backer pad with the spindle. Press the spindle lock button and thread the backer pad onto the spindle clockwise until secure. Attach the desired 3" foam or wool polishing pad to the hook and loop surface.
3. For 2" sanding discs: Align the 2" twist and lock backer pad with the spindle. Press the spindle lock button and

thread the backer pad onto the spindle clockwise until secure. Attach the desired 2" twist and lock sanding disc to the backer pad by twisting it into place.

4. To remove, reverse the steps.

Auxiliary Handle Installation

The auxiliary handle can be attached for improved control and comfort.

1. Unscrew the auxiliary handle from the tool's front housing.
2. Position the handle to your preferred angle.
3. Screw the handle back into place until it is firmly secured.

OPERATING INSTRUCTIONS

Power On/Off

To turn the tool on, depress the trigger switch. To turn the tool off, release the trigger switch.

Variable Speed Control

The tool features a 2-speed switch for optimized performance:

- **Polishing Mode:** 0-2,800 Revolutions Per Minute (RPM). Use for polishing applications.
- **Sanding Mode:** 0-7,800 Revolutions Per Minute (RPM). Use for sanding applications.

Select the appropriate speed mode using the switch located on the tool. The trigger also provides variable speed control within the selected range; press lightly for slower speeds and fully for maximum speed.

Polishing

1. Ensure the correct polishing pad is attached.
2. Apply a small amount of polishing compound to the pad or workpiece.
3. Start the tool at a low speed and spread the compound evenly.
4. Increase speed as needed and move the polisher in overlapping passes, applying light, even pressure.
5. Avoid excessive pressure or staying in one spot for too long to prevent heat buildup.

Sanding

1. Ensure the correct grit sanding disc is attached.
2. Hold the tool firmly and place the sanding disc flat on the workpiece.
3. Start the tool and move it in a consistent pattern, applying light, even pressure.
4. Avoid tilting the tool, which can cause uneven sanding or gouging.
5. Periodically check the workpiece and replace sanding discs as they wear out.

LED Work Light

The integrated LED work light illuminates the work surface for improved visibility. It activates automatically when the trigger is pressed.

MAINTENANCE

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

- **Cleaning:** Keep the tool's air vents clear and free of debris. Use a clean, dry cloth to wipe down the exterior. Do not use solvents or harsh chemicals.

- **Accessory Care:** Clean polishing pads after each use. Store sanding discs in a dry place.
- **Battery Care:** Store battery packs in a cool, dry place away from direct sunlight. Do not store battery packs in a discharged state for extended periods.
- **Inspection:** Periodically inspect the tool for any signs of damage, loose screws, or worn parts. Do not use a damaged tool.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery not installed correctly; Battery discharged; Tool malfunction.	Ensure battery is fully seated; Charge battery; Contact customer support.
Reduced power/speed	Low battery charge; Incorrect speed setting; Overload.	Charge battery; Select higher speed setting; Reduce pressure on workpiece.
Excessive vibration	Accessory not properly attached; Damaged accessory; Worn internal components.	Re-attach accessory securely; Replace damaged accessory; Contact customer support.

SPECIFICATIONS

Feature	Detail
Model Number	PBF102B
Voltage	18 Volts
Polishing Speed	0-2,800 RPM
Sanding Speed	0-7,800 RPM
Item Weight	2.83 pounds
Package Dimensions	8.35 x 7.72 x 3.27 inches
UPC	033287189540
Manufacturer	RYOBI Tools
Power Source	Battery Powered
Included Components	Polisher (Tool-Only)
Batteries Included?	No
Batteries Required?	Yes (RYOBI ONE+ 18V)

WARRANTY AND SUPPORT

Manufacturer's Warranty

This RYOBI tool is backed by a 3-Year Manufacturer's Warranty. Please refer to the warranty card included with your product or visit the official RYOBI website for full details and terms.

Customer Support

For technical assistance, replacement parts, or warranty claims, please contact RYOBI customer support. Contact information can typically be found on the RYOBI website or in the documentation provided with your tool. When contacting support, please have your model number (PBF102B) and serial number (if applicable) ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question