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RYOBI PSBRH01B-Kit

RYOBI 18V ONE+ HP Compact Brushless Cordless 5/8" SDS-Plus Rotary Hammer Drill User Manual

Model: PSBRH01B-Kit

Safety Contents Overview Setup Operation Maintenance Troubleshooting Specifications Warranty

1. Important Safety Information

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

2. Package Contents

Your RYOBI 18V ONE+ HP Compact Brushless Cordless 5/8" SDS-Plus Rotary Hammer Drill package includes the following items:

- RYOBI 18V ONE+ HP Compact Brushless Cordless 5/8" SDS-Plus Rotary Hammer Drill
- 18V Lithium Ion Battery
- Battery Charger

Note: This item is bulk packaged and will arrive in a generic package, with no retail packaging.



Image: The RYOBI rotary hammer drill, alongside its 18V Lithium Ion battery and battery charger.

3. Product Overview

The RYOBI 18V ONE+ HP Compact Brushless Rotary Hammer Drill is designed for efficient drilling in various materials, including concrete, masonry, and wood. Its compact design and powerful motor make it suitable for tight spaces and demanding applications.

Key Features:

- **Compact Design:** Measuring only 11.4 inches in length, this tool is lightweight and provides improved access to confined workspaces and overhead tasks.
- **ONE+ HP Technology:** Delivers up to 6,200 BPM (Blows Per Minute) for efficient drilling. For optimal performance, pair with a RYOBI ONE+ HP battery (sold separately).
- **Dual Modes:** Features two operational modes: Rotary Hammer and Drill.
- **SDS-Plus Chuck:** Ensures quick and secure bit changes.
- **On-board LED Worklight:** Illuminates the work area for enhanced visibility.
- **Brushless Motor:** Provides longer runtime, increased power, and extended motor life.



Image: Front view of the RYOBI 18V ONE+ HP Compact Brushless Rotary Hammer Drill.





Image: Top view of the drill, highlighting the 'ONE+ HP BRUSHLESS' branding.

4. Setup

4.1 Battery Installation and Removal

To Install the Battery:

1. Align the ribs on the battery with the grooves in the tool's battery port.
2. Slide the battery into the tool until it clicks securely into place. Ensure it is fully seated.

To Remove the Battery:

1. Press the battery release latches located on the sides of the battery pack.
2. Pull the battery pack out of the tool.



Image: Side view of the drill, illustrating the battery port for installation.

4.2 SDS-Plus Bit Installation and Removal

To Install an SDS-Plus Bit:

1. Pull back the chuck collar.
2. Insert the SDS-Plus bit into the chuck, rotating it slightly until it slides fully into place.
3. Release the chuck collar. The bit should be held securely but will have a small amount of axial play, which is normal for SDS-Plus systems.
4. Gently pull on the bit to ensure it is locked.

To Remove an SDS-Plus Bit:

1. Pull back the chuck collar.
2. Pull the bit straight out of the chuck.

5. Operating Instructions

5.1 Mode Selection

The rotary hammer drill features a mode selector switch to choose between two operating modes:

- **Rotary Hammer Mode:** For drilling into concrete, brick, and other masonry materials. This mode combines rotation with a hammering action.
- **Drill Mode:** For drilling into wood, metal, and plastic without the hammering action.

To change modes, rotate the mode selector switch to the desired icon. Ensure the tool is off and the battery is removed before adjusting the mode selector.

5.2 Drilling

1. Ensure the correct bit is installed and the desired mode is selected.
2. Secure your workpiece to prevent movement during drilling.
3. Position the drill bit at the desired drilling location.
4. Press the trigger to start the tool. The on-board LED worklight will activate to illuminate the area.
5. Apply steady, even pressure. Do not force the tool. Allow the tool to do the work.
6. Release the trigger to stop the tool.

5.3 LED Worklight

The integrated LED worklight automatically activates when the trigger is pressed, providing illumination to the work surface. This feature is useful in dimly lit environments.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your RYOBI rotary hammer drill.

6.1 Cleaning

- Always remove the battery pack before performing any cleaning or maintenance.
- Use a clean, dry cloth to wipe down the tool's exterior.
- Do not use harsh chemicals or abrasive cleaners, as these can damage plastic parts.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.

6.2 Battery Care

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Recharge them periodically.
- Only use the RYOBI charger provided or specified for 18V ONE+ batteries.

7. Troubleshooting

If you encounter issues with your RYOBI rotary hammer drill, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start or stops unexpectedly.	Battery not charged or improperly installed. Overload protection activated.	Ensure battery is fully charged and properly seated. Reduce pressure on the tool; allow it to cool down if it has been used continuously under heavy load.
Tool overheats quickly.	Continuous heavy use. Blocked ventilation.	Allow the tool to cool down between uses. Clear any debris from the ventilation slots. Ensure you are using an appropriate bit and not forcing the tool. Consider using a ONE+ HP battery for demanding tasks.
Reduced drilling performance.	Dull or incorrect bit. Battery charge low. Incorrect mode selected.	Replace with a sharp, appropriate SDS-Plus bit. Recharge the battery. Verify the tool is in Rotary Hammer mode for masonry or Drill mode for other materials.
Bit not held securely in chuck.	Bit not fully inserted. Chuck collar not released properly.	Ensure the SDS-Plus bit is fully inserted and the chuck collar is released, allowing it to lock the bit in place.

8. Specifications

Feature	Detail
Brand	RYOBI
Model Number	PSBRH01B-Kit
Power Source	Battery Powered (18V Lithium Ion)
Maximum Rotational Speed	1250 RPM
Maximum Chuck Size	0.63 Inches (5/8")
Included Components	SDS Rotary Hammer Drill, Battery, Charger
Special Feature	Cordless, Brushless Motor, LED Worklight
Product Dimensions (L x W x H)	11.4" x 2.5" x 11.4"
Material	ABS Plastic
Maximum Torque	750 Inch Pounds
Number of Speeds	2
Item Weight	3.8 Pounds
Drill Type	Hammer Drill
UPC	033287223602

9. Warranty and Support

RYOBI power tools are backed by a manufacturer's warranty. For specific warranty details, registration, or to locate authorized service centers, please refer to the documentation included with your product or visit the official RYOBI website.

For technical assistance or customer support, please contact RYOBI customer service through their official channels. Keep your proof of purchase and model number (PSBRH01B-Kit) handy when contacting support.

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