RYOBI PSBRH01B

RYOBI 18V ONE+ HP Compact BRUSHLESS 5/8" SDS-Plus Rotary Hammer Instruction Manual

Model: PSBRH01B

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.

- **Work Area Safety:** Keep the 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.
- **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. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool. Wear a dust mask in dusty conditions. Dress properly; do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or remove the battery pack before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

2. Product Overview

The RYOBI 18V ONE+ HP Compact BRUSHLESS 5/8" SDS-Plus Rotary Hammer (Model PSBRH01B) is a versatile tool designed for drilling into masonry, concrete, and other tough materials. It features ONE+ HP Technology for enhanced power and runtime, a compact design for improved maneuverability, and two operational modes: rotary hammer and drill.



Figure 1: Overall view of the RYOBI 18V ONE+ HP Compact BRUSHLESS 5/8" SDS-Plus Rotary Hammer.



Figure 2: Side view of the rotary hammer, highlighting key components and branding.





Figure 3: Top view of the rotary hammer, displaying the ONE+ HP BRUSHLESS designation.

Key Features:

- **ONE+ HP Technology:** Delivers up to 6,200 BPM (Blows Per Minute) for efficient drilling.
- **Compact Design:** 43% lighter weight than full-size models, enabling one-handed use and access to tight spaces.
- **Two Modes:** Easily switch between Rotary Hammer mode for concrete/masonry and Drill mode for wood/metal.
- **SDS-Plus Chuck:** For quick, tool-free bit changes and secure bit retention.
- **LED Worklight:** Integrated light for improved visibility in dimly lit work areas.

Note: This tool is sold as a bare tool. Battery and charger are sold separately.

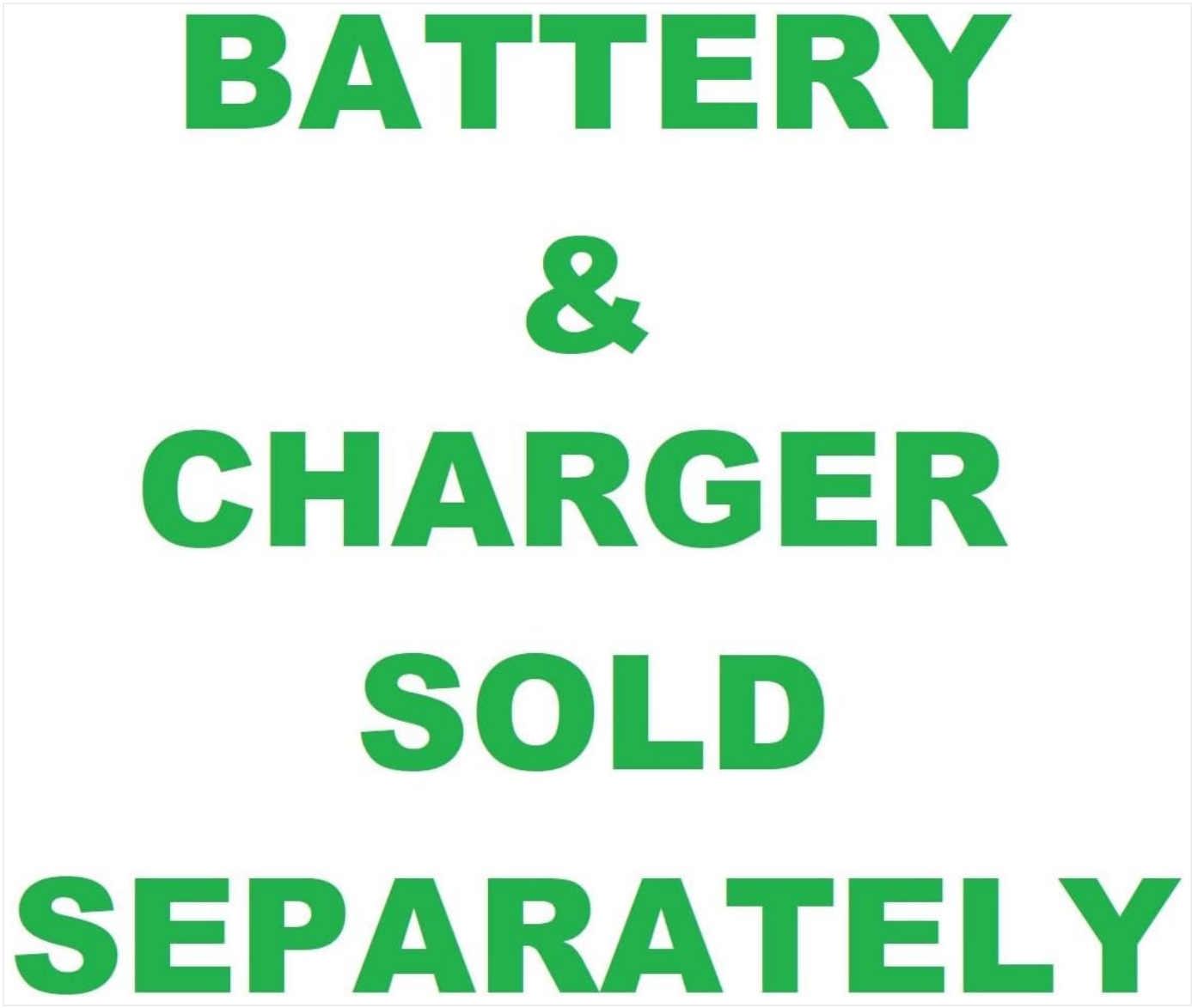


Figure 4: Important information regarding battery and charger availability.



Figure 5: Information about the product's packaging.

3. Setup

3.1 Battery Installation and Removal

1. **To Install:** Align the ribs on the battery pack with the grooves in the tool's battery port. Slide the battery pack into the tool until it latches securely in place.
2. **To Remove:** Depress the latch button on the battery pack and slide the battery out of the tool.

Ensure the battery is fully charged before use. Refer to your battery charger's instruction manual for charging procedures.

3.2 SDS-Plus Bit Installation

1. Clean the shank of the SDS-Plus drill bit.
2. Pull back the chuck collar on the front of the tool.
3. Insert the SDS-Plus bit into the chuck until it clicks into place.
4. Release the chuck collar. Pull on the bit to ensure it is securely locked. The bit should have a slight amount of play (in-and-out movement) when properly installed; this is normal for SDS-Plus systems.

Warning: Always ensure the tool is switched off and the battery pack is removed before installing or removing accessories.

3.3 Mode Selection

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

- **Rotary Hammer Mode (*Hammer and Drill Icon*):** For drilling into concrete, brick, and masonry. This mode combines rotation with a hammering action.
- **Drill Mode (*Drill Bit Icon*):** For drilling into wood, metal, and plastics without hammering action.

Rotate the mode selector switch to the desired setting. Ensure the switch is fully engaged in the chosen mode before operation.

4. Operating Instructions

4.1 General Operation

1. Ensure the correct bit is installed and the desired mode is selected.
2. Hold the tool firmly with both hands, if possible, to maintain control.
3. Position the bit on the workpiece.
4. Depress the trigger to start the tool. The integrated LED worklight will illuminate the work area.
5. Apply steady, firm pressure. Do not force the tool; allow the tool to do the work.
6. Release the trigger to stop the tool.

4.2 Drilling into Masonry/Concrete (Rotary Hammer Mode)

- Use SDS-Plus masonry bits.
- Select Rotary Hammer mode.
- Start drilling at a low speed to create a pilot indentation, then increase speed and pressure.
- Periodically withdraw the bit from the hole to clear dust and debris, which helps prevent overheating and improves drilling efficiency.

4.3 Drilling into Wood/Metal (Drill Mode)

- Use appropriate drill bits for wood or metal.
- Select Drill mode.
- For metal, use a center punch to mark the drilling spot and apply cutting oil to prolong bit life.
- For wood, ensure the workpiece is clamped securely to prevent movement.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your tool. Always remove the battery pack before performing any maintenance.

5.1 Cleaning

- Keep the tool's air vents clean to prevent overheating. Use a dry cloth or soft brush to remove dust and debris.
- Do not use solvents or harsh chemicals, as these can damage plastic parts.
- Clean the SDS-Plus chuck regularly to ensure smooth bit insertion and removal.

5.2 Storage

- Store the tool in a dry, secure location out of reach of children.
- Avoid storing in direct sunlight or areas with extreme temperatures.
- Remove the battery pack from the tool before storage.

5.3 Inspection

- Periodically inspect the tool for any damaged parts, loose screws, or worn components.
- If any damage is found, do not operate the tool. Contact RYOBI customer service or a qualified service center for repair.

6. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery pack not installed correctly or discharged.	Ensure battery is fully seated. Recharge battery pack.
Reduced drilling performance.	Worn or dull drill bit. Incorrect mode selected.	Replace with a sharp, appropriate drill bit. Verify mode selector is in Rotary Hammer mode for masonry.
Bit not rotating or hammering.	Incorrect mode selected. Bit not properly seated in chuck.	Check mode selector. Re-insert bit, ensuring it clicks into place.
Tool overheats.	Blocked air vents. Excessive continuous use.	Clean air vents. Allow tool to cool down during prolonged use.

7. Specifications

Model Number: PSBRH01B

Voltage: 18 Volts DC

Amperage: 4 Amps

Maximum Rotational Speed: 1250 RPM

Blows Per Minute (BPM): Up to 6200 BPM

Chuck Type: SDS-Plus

Drilling Capacity (Wood): 5/8 inch (15.88 mm)

Item Weight: Approximately 3.8 pounds (1.72 kg)

Product Dimensions: 11.81 x 7.8 x 3.58 inches (29.99 x 19.81 x 9.09 cm)

Power Source: Battery Powered (RYOBI ONE+ 18V)

Special Features: Compact, Cordless, Brushless Motor, LED Worklight

8. Warranty and Support

8.1 Manufacturer's Warranty

This RYOBI 18V ONE+ HP Compact BRUSHLESS 5/8" SDS-Plus Rotary Hammer is backed by the RYOBI 3-Year Manufacturer's Warranty. This warranty covers defects in material and workmanship. Please retain your proof of purchase for warranty claims.

For full warranty details and conditions, please refer to the official RYOBI warranty statement or visit the RYOBI website.

8.2 Customer Support

If you have any questions about the operation, maintenance, or troubleshooting of your RYOBI tool, please contact RYOBI customer support.

- **Online Support:** Visit the official RYOBI website for FAQs, product registration, and service center locations.
- **Telephone Support:** Refer to the contact information provided in your product packaging or on the RYOBI website for direct assistance.

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