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RYOBI PSBHM01B

RYOBI PSBHM01B ONE+ HP 18V Brushless Cordless Compact 1/2 in. Hammer Drill

INSTRUCTION MANUAL

Model: PSBHM01B | Brand: RYOBI

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your RYOBI PSBHM01B ONE+ HP 18V Brushless Cordless Compact 1/2 in. Hammer Drill. Please read this manual thoroughly before using the tool to ensure proper function and to prevent injury.

2. Safety Information

WARNING: Read 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.

- Always wear eye protection and hearing protection when operating power tools.
- Keep your 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.
- Keep children and bystanders away while operating a power tool.
- Use the correct tool for your application. Do not force the tool.
- Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.
- Use power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.

3. Product Features

- **Brushless Motor:** Provides up to 400 in./lbs. of torque for demanding applications.
- **Compact Design:** Only 6.7 inches long, offering improved access in tight spaces.
- **Versatile Drilling:** Capable of drilling through concrete, brick, and block with 0 - 27,200 BPM in hammer mode.

- **Two-Speed Gearbox:** Offers 0 - 450 RPM for driving and 0 - 1,700 RPM for drilling.
- **24-Position Clutch:** Allows for precise torque control and prevents overdriving screws.
- **1/2 in. Single Sleeve Ratcheting Chuck:** Provides durable grip for quick bit changes.
- **On-board LED Worklight:** Illuminates the work area for improved visibility.

4. Components and Parts Identification



An image showing the RYOBI PSBHM01B ONE+ HP 18V Brushless Cordless Compact 1/2 in. Hammer Drill from a side-front angle. The drill features a lime green

and black body, a 1/2 inch chuck, a speed selector, and a clutch ring. The RYOBI ONE+ HP logo is visible on the side.

1. **Chuck:** Holds drill bits and driving accessories.
2. **Clutch/Mode Selector Ring:** Adjusts torque settings and selects drill or hammer drill mode.
3. **Speed Selector Switch:** Changes between high and low-speed settings.
4. **Forward/Reverse Selector:** Controls the direction of rotation.
5. **Trigger Switch:** Activates the tool and controls speed.
6. **Handle:** Ergonomic grip for user comfort and control.
7. **Battery Interface:** Where the 18V ONE+ battery pack connects.
8. **LED Worklight:** Illuminates the work surface.

5. Setup

5.1. Battery Installation

1. Ensure the drill is turned off and the forward/reverse selector is in the center (locked) position.
2. Align the ribs on the battery pack with the grooves in the drill's battery port.
3. Slide the battery pack into the drill until it clicks securely into place.
4. To remove, press the release latches on the battery pack and slide it out.

5.2. Installing/Removing Drill Bits

1. Ensure the battery pack is removed from the drill.
2. Grasp the rear portion of the chuck with one hand and rotate the front portion counter-clockwise to open the chuck jaws.
3. Insert the drill bit or accessory fully into the chuck.
4. Rotate the front portion of the chuck clockwise to tighten the jaws securely around the bit. The ratcheting mechanism will click as it tightens.
5. To remove, rotate the front portion counter-clockwise until the jaws open sufficiently.

6. Operating Instructions

6.1. Selecting Operating Mode (Clutch/Mode Selector Ring)

The clutch/mode selector ring allows you to choose between drilling, driving, and hammer drilling applications.

- **Drill Mode (Drill Icon):** For drilling into wood, metal, and plastic. The clutch is disengaged, providing maximum torque.
- **Hammer Drill Mode (Hammer Icon):** For drilling into masonry, concrete, brick, and block. Engages the hammer mechanism for impact drilling.
- **Driving Mode (Numbered Settings 1-24):** For driving screws. The clutch will slip at the selected torque setting to prevent overdriving or damaging the fastener. Start with a lower setting and increase as needed.

6.2. Selecting Speed (Speed Selector Switch)

The two-speed gearbox provides optimal performance for different tasks.

- **Speed 1 (Low Speed, 0-450 RPM):** Ideal for high-torque applications like driving screws or drilling large holes.
- **Speed 2 (High Speed, 0-1,700 RPM):** Suitable for fast drilling in wood, metal, or plastic, and for hammer drilling.

6.3. Forward/Reverse Operation

The forward/reverse selector switch controls the direction of rotation.

- Push the switch to the left for forward (clockwise) rotation.
- Push the switch to the right for reverse (counter-clockwise) rotation.
- Center the switch to lock the trigger and prevent accidental starting.

6.4. Starting and Stopping

To start the drill, depress the trigger switch. The speed is variable; apply more pressure for higher speed. To stop, release the trigger switch.

7. Maintenance

7.1. General Cleaning

- Keep the tool's air vents clear and free of debris to prevent overheating.
- Use a clean, dry cloth to wipe down the exterior of the tool. Do not use harsh chemicals or abrasive cleaners.
- Periodically clean the chuck jaws to ensure proper gripping of bits.

7.2. Storage

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

8. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed; Forward/reverse switch in center position.	Charge battery and ensure proper installation; Move forward/reverse switch to forward or reverse position.
Reduced power or performance	Low battery charge; Incorrect speed or clutch setting for the task.	Recharge battery; Select appropriate speed and clutch setting.
Bit slips in chuck	Chuck not tightened sufficiently; Bit shank is dirty or damaged.	Retighten chuck firmly; Clean or replace bit.
Overheating	Blocked air vents; Prolonged heavy use.	Clear air vents; Allow tool to cool down.

9. Specifications

Feature	Specification
Model Number	PSBHM01B
Power Source	Battery Powered (18V ONE+ System)
Motor Type	Brushless
Chuck Size	1/2 inch

Feature	Specification
Maximum Torque	400 in./lbs.
No-Load Speed (Speed 1)	0-450 RPM
No-Load Speed (Speed 2)	0-1,700 RPM
Blows Per Minute (BPM)	0-27,200 BPM
Clutch Settings	24 + Drill + Hammer
Product Dimensions (L x W x H)	7" x 3" x 7.5"
Item Weight	2.25 lbs

10. Warranty and Support

This RYOBI PSBHM01B Hammer Drill is backed by a **3-Year Manufacturer's Warranty**. For warranty claims, technical support, or service inquiries, please refer to the official RYOBI website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty purposes.
For more information, visit the official RYOBI Tools website.

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