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› PARKSIDE PERFORMANCE PKHAP 20-Li A1 Cordless Rotary Hammer Drill, 20 V - Instruction Manual

## Parkside IAN-100383001

# PARKSIDE PERFORMANCE PKHAP 20-Li A1 Cordless Rotary Hammer Drill

Model: IAN-100383001

## 1. INTRODUCTION

Thank you for choosing the PARKSIDE PERFORMANCE PKHAP 20-Li A1 Cordless Rotary Hammer Drill. This powerful 20V tool is designed for versatile applications in concrete, stone, metal, and wood. Featuring a brushless motor for extended lifespan and a central selector for various functions, this manual provides essential information for safe and efficient operation.

## 2. SAFETY INSTRUCTIONS

Always observe basic safety precautions when using power tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operation.

- **Work Area Safety:** Keep your work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and suitable work gloves. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct tool for your application. Disconnect the battery pack before making any adjustments, changing accessories, or storing power tools.
- **Battery Safety:** Use only the specified battery packs for this tool (PARKSIDE X 20 V Team series). Do not short-circuit the battery terminals.

## 3. PRODUCT OVERVIEW

The PARKSIDE PERFORMANCE PKHAP 20-Li A1 is a robust cordless rotary hammer drill equipped with advanced features for demanding tasks.



**Figure 3.1:** Main view of the PARKSIDE PERFORMANCE PKHAP 20-Li A1 Cordless Rotary Hammer Drill. This image shows the overall design, including the main handle, auxiliary handle, SDS-plus chuck, and the function selector dial.



**Figure 3.2:** Side view highlighting the central function selector dial. This dial allows users to switch between drilling, hammer drilling, and chiseling modes.



**Figure 3.3:** A detailed close-up of the central function selector. The icons clearly indicate the three operating modes: drilling (drill bit icon), hammer drilling (drill bit and hammer icon), and chiseling (chisel and hammer icon with rotation stop).



**Figure 3.4:** The rotary hammer drill with its 360° rotatable auxiliary handle. This handle provides additional control and comfort during operation and can be adjusted to various positions.

## Key Features:

- **Brushless Motor:** Ensures reduced wear and a significantly longer service life.
- **Central Function Selector:** Easily switch between Drilling (without impact), Hammer Drilling (with impact), and Chiseling (with impact and rotation stop).
- **SDS-plus Chuck:** For quick and secure bit changes.
- **Integrated LED Light:** Illuminates the workpiece for improved visibility.
- **Metal Depth Stop:** For precise drilling depth control.
- **Non-slip Softgrip Coating:** Provides comfortable and secure handling.
- **360° Rotatable Auxiliary Handle:** Offers optimal control and ergonomics.
- **Compatibility:** Part of the PARKSIDE X 20 V Team series, compatible with all batteries from this range (battery not included).

## 4. SETUP

### 4.1. Battery Installation

1. Ensure the tool is switched off.
2. Align the battery pack (not included) with the battery slot at the base of the tool.
3. Slide the battery into the slot until it clicks securely into place. To remove, press the release button and slide the battery out.

### 4.2. Auxiliary Handle Adjustment

1. Loosen the auxiliary handle by rotating its base counter-clockwise.
2. Adjust the handle to your desired position (360° rotation is possible).
3. Tighten the auxiliary handle by rotating its base clockwise until it is firmly secured.

### 4.3. Depth Stop Installation

1. Insert the metal depth stop into the designated hole on the auxiliary handle.
2. Adjust the depth stop to the required drilling depth by sliding it in or out.
3. Secure the depth stop by tightening the locking mechanism on the auxiliary handle.

### 4.4. Bit Installation (SDS-plus Chuck)

1. Clean the shank of the SDS-plus drill bit.
2. Pull back the chuck collar on the tool.
3. Insert the drill bit into the chuck until it locks into place. Release the collar.
4. Pull on the bit to ensure it is securely seated. A slight axial play is normal for SDS-plus systems.

## 5. OPERATING MODES

The central function selector allows you to choose between three primary operating modes:

### 5.1. Drilling (without impact)

This mode is suitable for drilling in wood, metal, and plastics. Set the function selector to the drill bit icon. The tool will rotate without engaging the hammer mechanism.



**Figure 5.1:** The rotary hammer drill being used in drilling mode on a metal beam. This demonstrates the tool's capability for precise drilling without impact, ideal for materials like metal or wood.

## 5.2. Hammer Drilling (with impact)

This mode is designed for drilling in concrete, masonry, and stone. Set the function selector to the drill bit and hammer icon. The tool will rotate and simultaneously provide impact action for efficient material removal.



**Figure 5.2:** The rotary hammer drill in action, performing hammer drilling on a concrete wall. This mode combines rotation with powerful impacts, making it highly effective for hard materials like concrete and stone.

## 5.3. Chiseling (with impact and rotation stop)

Use this mode for light chiseling work, such as removing tiles or breaking small sections of concrete. Set the function selector to the chisel and hammer icon. The rotation will be stopped, allowing only the hammer action. The chisel orientation can be continuously adjusted.

**Note:** For optimal performance, especially with hammer drilling and chiseling, a 20V 4Ah battery is recommended.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your tool.

- **Cleaning:** After each use, clean the tool housing with a soft, damp cloth. Do not use solvents or abrasive cleaners. Keep the ventilation slots clear of dust and debris.
- **Chuck Maintenance:** Periodically clean the SDS-plus chuck and apply a small amount of grease to the bit shank to ensure smooth operation and prevent wear.
- **Storage:** Store the tool in a dry, secure place, out of reach of children. Remove the battery pack before storage.
- **Brushless Motor:** The brushless motor requires no carbon brush replacement, reducing maintenance needs.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly inserted.	Ensure battery is fully charged and correctly inserted.
Reduced impact power	Incorrect mode selected; worn bit; low battery.	Check function selector; replace bit; charge battery.
Bit not locking in chuck	Chuck dirty; bit shank damaged.	Clean chuck and bit shank; use only clean, undamaged SDS-plus bits.
Overheating	Continuous heavy use; blocked ventilation.	Allow tool to cool down; clear ventilation slots.

## 8. SPECIFICATIONS

Attribute	Value
Manufacturer	PARK SIDE
Model Number	IAN-100383001
Power Source	Battery (PARKSIDE X 20 V Team series)
Voltage	20 Volts
Power	500 Watts
Impact Energy	3 Joules
Impact Rate	0-4700 bpm (blows per minute)
No-load Speed	0-950 rpm (revolutions per minute)
Max. Drilling Diameter (Concrete/Stone)	24 mm
Max. Drilling Diameter (Metal)	13 mm
Max. Drilling Diameter (Wood)	27 mm
Dimensions (L x W x H)	25 x 25 x 40 cm
Weight	4.74 Kilograms
Special Feature	Cordless, Brushless Motor
Included Components	Metal depth stop

## 9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact Parkside customer service. Keep your proof of purchase for any warranty claims.

For further assistance or technical inquiries, please visit the official Parkside website or contact their authorized service centers.