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PARKSIDE PSBSA 20 LI C3

PARKSIDE 20V 3-in-1 Cordless Impact Drill PSBSA 20 LI C3 User Manual

Model: PSBSA 20 LI C3

1. Introduction

This manual provides essential information for the safe and effective operation, setup, and maintenance of your PARKSIDE 20V 3-in-1 Cordless Impact Drill, model PSBSA 20 LI C3. This tool is designed for drilling, screwdriving, and impact drilling in various materials. Please read these instructions thoroughly before first use and keep them for future reference.

Note: The battery and charger are not included with this product and must be purchased separately. This tool is compatible with batteries from the "PARKSIDE X 20V Team" series.

2. Safety Instructions

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual accessible for all users.

- **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:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Always wear eye protection. Use hearing protection when impact drilling. Wear a dust mask if operations create dust. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Store idle power tools out of the reach of children.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

3. Product Overview

Familiarize yourself with the components of your PARKSIDE 20V 3-in-1 Cordless Impact Drill.



Image of the PARKSIDE 20V 3-in-1 Cordless Impact Drill without the auxiliary handle attached, showing its compact design.



Side view of the PARKSIDE 20V 3-in-1 Cordless Impact Drill, highlighting the chuck, speed selector, and mode switch.

Key Components:

- **Quick-Release Metal Chuck:** For easy bit changes (1.5 - 13 mm clamping range).
- **Torque Selector Ring:** 20+1 drilling + 1 impact settings for precise control.
- **Mode Selector:** Switch between drilling, screwdriving, and impact drilling.
- **2-Speed Gearbox:** Gear 1 (0-440 rpm) for high torque, Gear 2 (0-1650 rpm) for high speed.

- **Variable Speed Trigger:** For precise speed control.
- **Rotation Direction Switch:** Forward/Reverse.
- **Integrated LED Work Light:** Illuminates the work area.
- **Ergonomic Soft Grip:** For comfortable handling.
- **Auxiliary Handle:** Provides additional control and stability.
- **Magnetic Bit Holder:** Convenient storage for bits.
- **Belt Clip:** For easy carrying.

4. Setup

4.1 Battery Installation

Ensure the battery is fully charged before use. This tool is compatible with PARKSIDE X 20V Team series batteries (recommended: 20V 2Ah or 4Ah).

1. Align the battery pack with the battery port on the base of the drill handle.
2. Slide the battery pack into the port until it clicks securely into place.
3. To remove, press the release button on the battery pack and slide it out.



The PARKSIDE 20V 3-in-1 Cordless Impact Drill with the auxiliary handle attached. Note: Battery and charger are sold separately.

4.2 Auxiliary Handle Attachment

The auxiliary handle provides improved control, especially during high-torque or impact drilling applications.

1. Loosen the auxiliary handle by rotating its grip counter-clockwise.
2. Slide the handle over the chuck and onto the front of the drill body.
3. Adjust the handle to your desired position (left or right side).
4. Tighten the handle by rotating its grip clockwise until it is secure.



Top-down view of the PARKSIDE 20V 3-in-1 Cordless Impact Drill, showing the auxiliary handle attached and its adjustable positions.

4.3 Bit Installation

Always ensure the drill is switched off and the battery is removed before changing bits.

1. Rotate the chuck collar counter-clockwise to open the chuck jaws.
2. Insert the desired drill bit or screwdriver bit into the chuck, ensuring it is centered.
3. Rotate the chuck collar clockwise to tighten the jaws firmly around the bit. Ensure the bit is securely held.



Close-up view of the drill's metal quick-release chuck with a screwdriver bit securely installed, and the auxiliary handle.

5. Operating Instructions

5.1 Selecting Operating Mode

Rotate the mode selector ring to choose one of the three functions:

- **Screwdriving Mode:** For driving and removing screws.
- **Drilling Mode:** For drilling holes in wood, metal, and plastic.
- **Impact Drilling Mode:** For drilling into masonry and concrete (requires appropriate masonry bits).

5.2 Adjusting Torque and Speed

- **Torque Setting (Screwdriving Mode):** Rotate the torque selector ring to one of the 20 settings. Lower settings are for smaller screws and softer materials, higher settings for larger screws and harder materials. The clutch will disengage once the set torque is reached, preventing overtightening.
- **Speed Gear Selection:** Use the 2-speed gearbox switch located on top of the drill. Gear 1 (low speed, high torque) is suitable for screwdriving and large diameter drilling. Gear 2 (high speed, lower torque) is ideal for small diameter

drilling.

- **Variable Speed Trigger:** The trigger allows for variable speed control. Press lightly for slower speeds and harder for faster speeds.

5.3 Drilling and Screwdriving

1. Select the appropriate mode (Drilling or Screwdriving) and adjust torque/speed.
2. Ensure the rotation direction switch is set to forward (clockwise).
3. Position the bit on the workpiece.
4. Start the drill by gently pressing the trigger, gradually increasing speed as needed.
5. Apply steady, even pressure.



The impact drill configured for screwdriving, with a screwdriver bit inserted into the chuck and screws on the surface.



A user operating the PARKSIDE 20V 3-in-1 Cordless Impact Drill to drill into a wooden surface, demonstrating proper handling with the auxiliary handle.



Detailed view of a drill bit penetrating a wooden surface, illustrating the drilling process.

5.4 Impact Drilling

When impact drilling, ensure the auxiliary handle is securely attached and use appropriate masonry drill bits.

1. Select Impact Drilling mode.
2. Set the speed to Gear 2 for optimal impact performance.
3. Apply firm, steady pressure to the drill while pressing the trigger. The impact mechanism will engage automatically.

5.5 LED Work Light

The integrated LED work light automatically illuminates when the trigger is pressed, providing visibility in dimly lit areas.

5.6 Rotation Direction

The rotation direction switch is located above the trigger. Push it left for forward (clockwise) rotation and right for reverse (counter-clockwise) rotation. The center position locks the trigger for safety.

6. Maintenance and Cleaning

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

- **Cleaning:** Always disconnect the battery before cleaning. Keep the ventilation openings clean to prevent overheating. Use a soft, damp cloth to clean the tool casing. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Storage:** Store the tool in a dry, secure place out of reach of children. Remove the battery pack before long-term

storage.

- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries. Recharge them periodically if not in use for extended periods.

7. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start	Battery not inserted correctly Battery discharged Rotation direction switch in center (locked) position	Reinsert battery securely Charge battery Move switch to forward or reverse position
Reduced power/performance	Battery low Incorrect speed/torque setting Overload	Charge battery Adjust speed/torque for the task Reduce pressure, allow tool to cool
Bit slips in chuck	Chuck not tightened sufficiently Chuck jaws dirty	Tighten chuck firmly Clean chuck jaws
Excessive vibration	Damaged or bent bit Loose auxiliary handle	Replace bit Tighten auxiliary handle

8. Specifications

Feature	Specification
Model Number	PSBSA 20 LI C3 (IAN-100370517-3)
Brand	PARKSIDE
Power Source	Battery-powered (20V, compatible with PARKSIDE X 20V Team series)
Voltage	20 Volts
Max Torque	45 Newton-meters
No-Load Speed (Gear 1)	0-440 rpm
No-Load Speed (Gear 2)	0-1650 rpm
Impact Rate	26,400 bpm
Torque Settings	20 + 1 drilling + 1 impact
Chuck Clamping Range	1.5 - 13 mm
Product Dimensions (L x W x H)	30 x 11 x 29 cm
Weight (without battery)	2.56 Kilograms
Material	Metal and Plastic
Included Components	Auxiliary handle, 2 bits

9. Warranty and Support

For warranty information, technical support, or to order replacement parts, please refer to the documentation provided with your purchase or contact PARKSIDE customer service. Keep your proof of purchase for warranty claims.

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