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RYOBI R18PD3-220T

RYOBI R18PD3-220T Cordless Impact Drill User Manual

Model: R18PD3-220T

1. Introduction

Thank you for choosing the RYOBI R18PD3-220T Cordless Impact Drill. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before first use and keep it for future reference.

The RYOBI R18PD3-220T is a versatile 18V cordless impact drill designed for drilling, screwing, and percussion drilling. It features a 13 mm self-tightening chuck, two drilling speeds, 24 torque settings, and an LED lamp for improved visibility. It is part of the RYOBI ONE+ system, allowing battery compatibility with over 200 other RYOBI tools.

2. Safety Information

Always wear appropriate personal protective equipment (PPE) such as safety glasses, hearing protection, and gloves when operating the drill. Ensure your work area is well-lit and clear of obstructions. Keep children and bystanders away while operating power tools. Disconnect the battery pack before making any adjustments, changing accessories, or storing the tool.

Do not expose the tool or battery pack to rain or wet conditions. Avoid accidental starting. Ensure the switch is in the off-position before inserting the battery pack, picking up or carrying the tool. Do not force the power tool; use the correct power tool for your application. 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.

3. Components and What's Included

Your RYOBI R18PD3-220T Cordless Impact Drill package includes the following items:

- 1 x 18V Cordless Impact Driver
- 2 x 2.0Ah Lithium-Ion Batteries
- 1 x 1.5A Charger
- 1 x Storage Box
- 1 x 17-piece Screw Accessories Box

- User Manual



Figure 1: Complete RYOBI R18PD3-220T kit including the drill, two 2.0Ah batteries, charger, and a robust storage box, along with a 17-piece screw accessory set.

4. Setup

4.1. Charging the Batteries

Before first use, fully charge both 2.0Ah lithium-ion batteries using the supplied 1.5A charger. Insert the battery pack into the charger, ensuring it clicks into place. The charger will indicate the charging status. Once fully charged, remove the battery from the charger.

4.2. Inserting and Removing the Battery Pack

- **To Insert:** Align the battery pack with the receptacle on the tool and slide it in until it clicks securely into place.
- **To Remove:** Press the battery release button (usually located on the side of the battery) and slide the battery pack out of the tool.

4.3. Installing Accessories (Drill Bits/Screwdriver Bits)

The drill features a 13 mm tool-free self-tightening chuck.

1. Rotate the chuck counter-clockwise until the jaws are open wide enough to accept the desired drill bit or screwdriver bit.
2. Insert the bit fully into the chuck.
3. Rotate the chuck clockwise to tighten the jaws firmly around the bit. Ensure the bit is centered and secure before operation.

5. Operating the Drill

5.1. Powering On/Off and Variable Speed

The drill is powered on by pressing the trigger switch. The speed is variable depending on how far the trigger is depressed. Release the trigger to turn the tool off.

5.2. Rotation Inverter (Forward/Reverse)

A rotation inverter switch is located above the trigger. Push it to the left for forward rotation (for drilling and screwing) and to the right for reverse rotation (for unscrewing). Ensure the switch is in the center position when not in use to prevent accidental starting.

5.3. Speed Settings (Gear Selector)

The drill has two mechanical speed settings, selected via a switch on top of the tool:

- **Speed 1 (Low):** For high torque applications, such as driving large screws or drilling large diameter holes in tough materials.
- **Speed 2 (High):** For faster drilling and smaller diameter holes.

Always select the appropriate speed before starting the drill.

5.4. Torque Settings and Drill/Screw/Impact Bypass

The collar behind the chuck allows you to select from 24 torque settings for screwing applications, preventing overtightening or stripping screws. For drilling, switch to the drill icon. For percussion drilling (hammer drill mode), switch to the hammer icon.

5.5. Integrated LED Lamp

The integrated LED lamp illuminates the work area when the trigger is pressed, providing better visibility in dimly lit conditions.

5.6. Ergonomic Design

The Ergotech GripZone micro-honeycomb contoured handle provides a firm and precise grip, reducing user fatigue during extended use.



Figure 2: A user demonstrating the drill's use on a wooden surface, highlighting its precision and ease of handling for carpentry tasks.

5.7. Drilling Capacities

The R18PD3-220T is capable of drilling:

- Up to 38 mm in wood.
- Up to 13 mm in metal.
- Up to 13 mm in concrete (using percussion mode).



Figure 3: A user utilizing the drill's impact function to drill into a brick wall, showcasing its capability for masonry work.

6. Maintenance

6.1. Cleaning

Regularly clean the tool's ventilation openings to prevent overheating. Use a soft, damp cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners. Keep the chuck free of dust and debris.

6.2. Battery Care

The Lithium+ IntelliCell technology in your batteries helps prevent overcharging and overheating. For optimal battery life:

- 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.
- Avoid fully discharging the battery before recharging.

6.3. Storage

When not in use, store the drill, batteries, and charger in the provided storage box in a secure, dry location, out of reach of children.

7. Troubleshooting

- **Tool does not start:** Ensure the battery is fully charged and properly inserted. Check the forward/reverse switch is not in the center (locked) position.
- **Reduced power/performance:** Battery may be low. Recharge the battery. Ensure the correct speed and torque settings are selected for the task.
- **Bit wobbles in chuck:** Ensure the bit is inserted fully and the chuck is tightened securely. Check if the bit shank is

damaged.

- **Overheating:** Allow the tool to cool down. Ensure ventilation slots are clear. Avoid continuous heavy-duty use without breaks.

If problems persist, contact RYOBI customer support.

8. Specifications

Feature	Specification
Brand	RYOBI
Model Number	R18PD3-220T (5133003885)
Power Source	Battery Powered
Voltage	18 Volts
Amperage	2 Amps
Maximum Rotational Speed	1800 RPM
Number of Speeds	2
Maximum Torque	50 Newton Meters
Chuck Size	13 mm (Self-tightening)
Drilling Capacity (Wood)	38 Millimeters
Drilling Capacity (Metal)	13 Millimeters
Drill Type	Hammer Drill
Item Weight	10.76 pounds
Product Dimensions	11.3"L x 19.01"W x 9.29"H
Included Components	18V Cordless Impact Driver, 2 x 2.0Ah batteries, 1 x 1.5A charger, 17 x Screw Accessories, Storage box

9. Warranty and Support

9.1. Warranty Information

RYOBI tools and batteries are guaranteed for a total of 24 months. An extended warranty of one year is offered if the consumer registers their product within 30 days of the date of purchase. The registration confirmation and the original invoice indicating the date of purchase will serve as proof of extension of the warranty.

For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official RYOBI website.

9.2. Customer Support

For technical assistance, spare parts, or warranty claims, please contact RYOBI customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your model

number (R18PD3-220T) and serial number (if applicable) ready.

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