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Makita DHR283ZJU

Makita DHR283ZJU Rotary Hammer SDS Plus User Manual

Model: DHR283ZJU | Brand: Makita

Introduction

The Makita DHR283ZJU Rotary Hammer SDS Plus is a powerful and versatile tool designed for drilling and chiseling applications in concrete, masonry, and wood. It features advanced anti-vibration technology (AVT) for reduced operator fatigue and SoftNoLoad for precise positioning of the chisel or drill bit. The Active Feedback sensing Technology (AFT) enhances safety by stopping the motor if the tool becomes blocked, preventing kickback.

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, hearing protection, and a dust mask when operating the tool.
- Ensure the work area is well-lit and clear of obstructions.
- Secure the workpiece before drilling or chiseling.
- 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 tool before making any adjustments, changing accessories, or storing the tool.
- Maintain tools with care. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool’s operation.

Components



Figure 1: Overview of the Makita DHR283ZJU Rotary Hammer, showing the main body, side handle, SDS Plus chuck, and an additional keyless chuck for standard drill bits.

Familiarize yourself with the main components of your Makita DHR283ZJU Rotary Hammer:

- **SDS Plus Chuck:** For quick and secure insertion of SDS Plus drill bits and chisels.
- **Mode Selector Dial:** Allows switching between rotation only, rotation with hammering, and hammering only modes.
- **Trigger Switch:** Activates the tool and controls speed.
- **Lock-on Button:** For continuous operation (use with caution).
- **Side Handle:** Provides additional grip and control. Adjustable for left or right-handed use.
- **Depth Gauge:** Used to set the desired drilling depth.
- **Battery Port:** For inserting compatible Makita 18V LXT Lithium-Ion batteries.
- **Brushless Motor (BL Motor):** Provides efficient power and longer tool life.

Setup

1. Battery Installation and Removal

1. To install: Align the battery pack with the groove in the tool housing and slide it in until it locks into place with a click.
2. To remove: Press the button on the front of the battery pack and pull the battery out of the tool.

2. Bit Installation (SDS Plus)

1. Clean the shank of the drill bit and apply a small amount of grease.
2. Insert the drill bit into the chuck until it clicks into place. Pull on the bit to ensure it is securely locked.
3. To remove: Pull the chuck cover down and pull the drill bit out.

3. Side Handle Adjustment

1. Loosen the side handle by twisting it counter-clockwise.
2. Rotate the handle to the desired position.
3. Tighten the handle by twisting it clockwise until secure.

4. Depth Gauge Setting

1. Insert the depth gauge into the hole on the side handle.
2. Adjust the depth gauge to the desired drilling depth.
3. Tighten the side handle to secure the depth gauge.

Operating Instructions

Mode Selection

The DHR283ZJU offers three operating modes:

- **Rotation Only (Drilling):** For drilling in wood, metal, or plastic. Set the mode selector dial to the drill icon.
- **Rotation with Hammering (Hammer Drilling):** For drilling in concrete, brick, and masonry. Set the mode selector dial to the hammer and drill icon.
- **Hammering Only (Chiseling):** For chiseling, chipping, or breaking concrete and masonry. Set the mode selector dial to the hammer icon.

Starting and Stopping

- To start: Pull the trigger switch. The tool speed increases with increased trigger pressure.
- To stop: Release the trigger switch.
- For continuous operation: Pull the trigger switch, then push in the lock-on button. To stop, pull the trigger switch fully, then release it.

Dust Extraction (Optional)



Figure 2: The Makita DHR283ZJU Rotary Hammer being used with an optional dust extraction attachment for cleaner operation.

For cleaner operation and reduced dust exposure, an optional dust extraction attachment can be connected to the tool. Follow the instructions provided with the dust extraction system for proper installation and use.

Maintenance

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

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent overheating. Use a soft, damp cloth. Do not use solvents or abrasive cleaners.
- **Chuck Maintenance:** Keep the SDS Plus chuck clean and lubricated. Apply a small amount of grease to the bit shank before insertion to reduce wear.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods.
- **Inspection:** Periodically inspect the power cord (if applicable, though this is battery powered), switch, and housing for damage. If any damage is found, have the tool serviced by a qualified technician.
- **Storage:** Store the tool and accessories in a secure, dry place out of reach of children.

Troubleshooting

Before contacting service, check the following common issues:

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or not properly inserted.	Charge battery or re-insert until it clicks.
Reduced power or performance.	Low battery charge; Worn carbon brushes (if applicable, but this is brushless); Tool overheating.	Recharge battery; Allow tool to cool down; Consult service center.
Bit not rotating or hammering.	Mode selector dial set incorrectly; Bit not properly inserted.	Adjust mode dial; Re-insert bit until it clicks.
Excessive vibration.	Damaged bit; Internal issue.	Replace bit; If problem persists, seek professional service.

Specifications

Feature	Detail
Brand	Makita
Model Number	DHR283ZJU
Power Source	Battery Powered
Voltage	18 Volts
Maximum Rotational Speed	980 RPM
Wattage	50 watts
Item Weight	11 pounds (approx. 5 Kilograms)
Special Feature	Variable Speed, Anti-Vibration Technology (AVT), Active Feedback sensing Technology (AFT)
Chuck Type	SDS Plus
Batteries Required	Yes (Lithium-Ion)

Warranty and Support

Makita power tools are engineered to provide reliable performance. For information regarding warranty coverage, service, or technical support, please refer to the official Makita website or contact your authorized Makita dealer. Always use genuine Makita replacement parts and accessories to ensure compatibility and maintain tool performance and safety.
For further assistance, visit: www.makitatools.com

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