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Makita DHR242Z

Makita DHR242Z 18V LXT Brushless Rotary Hammer Instruction Manual

Model: DHR242Z

Introduction

The Makita DHR242Z is an 18V LXT brushless rotary hammer designed for efficient drilling and hammering operations. This tool offers three modes of operation: rotation with hammering, hammering only, and rotation only, providing versatility for various applications. Its brushless DC motor ensures higher productivity and reduced energy loss. The unique rubber joint construction minimizes vibration transmission to battery terminals, enhancing durability and reliability. This manual provides essential information for the safe and effective use, setup, maintenance, and troubleshooting of your DHR242Z rotary hammer.

Safety Information

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. 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:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Wear appropriate clothing and non-skid safety footwear.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

Components and Package Contents

The Makita DHR242Z is supplied as a bare tool, meaning it does not include a battery, charger, or carry case. Please ensure you have compatible Makita 18V LXT Lithium-Ion batteries and a charger for operation.
Included in the package:

- Makita DHR242Z 18V LXT Brushless Rotary Hammer (Tool Only)
- Side Handle
- Depth Gauge



Figure 1: Main view of the Makita DHR242Z 18V LXT Brushless Rotary Hammer, showing the tool body, SDS-Plus chuck, and side handle.

Setup

1. Battery Installation/Removal

To install the battery, align the battery pack with the housing and slide it in until it locks into place. To remove, press the release button on the battery and pull it out.

2. SDS-Plus Bit Installation

1. Clean the bit shank and apply a small amount of grease.
2. Pull back the chuck cover and insert the bit into the chuck.
3. Rotate the bit and push it in until it locks. Release the chuck cover.
4. Pull the bit to ensure it is securely locked. A slight play is normal for SDS-Plus bits.

3. Side Handle and Depth Gauge Adjustment

Loosen the side handle clamp and adjust the handle to a comfortable and secure position. Insert the depth gauge

into the hole on the side handle and adjust it to the desired drilling depth. Tighten the clamp to secure both.



Figure 2: Side view of the Makita DHR242Z, illustrating the adjustable side handle and depth gauge for precise drilling.

Operating Instructions

1. Mode Selection

The DHR242Z features a mode selector switch with three settings:

- **Rotation + Hammering (Drill with Hammer):** For drilling in concrete, masonry, and stone.
- **Hammering Only (Chipping):** For light chipping, chiseling, or scaling applications.
- **Rotation Only (Drill):** For drilling in wood, metal, or plastic without hammering action.

Rotate the mode selector dial to the desired icon. Ensure the dial clicks into place for proper operation.

2. Variable Speed Trigger

The tool's speed is controlled by the trigger switch. Pressing the trigger further increases the speed. This allows for precise control depending on the material and application.

3. Operation Tips

- Apply steady, firm pressure. Do not force the tool; let the hammer action do the work.
- For drilling, start at a lower speed to prevent the bit from wandering, then increase speed as needed.
- When drilling deep holes, periodically withdraw the bit to clear debris.



Figure 3: The Makita DHR242Z rotary hammer in active use, demonstrating its capability for drilling into masonry surfaces.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita DHR242Z rotary hammer.

- **Cleaning:** After each use, wipe down the tool with a clean, dry cloth. Remove any dust or debris from the ventilation openings. Do not use harsh chemicals or abrasive cleaners.
- **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.
- **Battery Terminals:** Keep battery terminals clean and free of dirt or grease. The tool's design helps suppress vibration to battery terminals, but regular inspection is still recommended.
- **Storage:** Store the tool in a dry, secure place out of reach of children. If storing for extended periods, remove the battery.
- **Brushless Motor:** The brushless DC motor requires less maintenance compared to brushed motors, as there are no carbon brushes to replace.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or not properly installed.	Charge the battery. Ensure the battery is fully inserted until it clicks.
Reduced drilling/hammering performance.	Worn or dull bit; incorrect mode selection; battery low.	Replace the bit. Verify the mode selector is set correctly. Recharge the battery.
Bit not locking into chuck.	Chuck not fully pulled back; debris in chuck.	Ensure the chuck cover is fully pulled back before inserting the bit. Clean the chuck.

Problem	Possible Cause	Solution
Excessive vibration.	Loose side handle; damaged bit.	Tighten the side handle. Inspect and replace the bit if damaged.

Specifications

Feature	Specification
Model Number	DHR242Z
Voltage	18V
Battery Type	Lithium-Ion (LXT)
Single Impact Energy	2.4 J
No Load Speed	0 - 950 RPM
Blows Per Minute (BPM)	0 - 4,700 BPM
Capacity in Concrete	24 mm (15/16")
Capacity in Steel	13 mm (1/2")
Capacity in Wood	27 mm (1-1/16")
Item Weight	5.95 lbs (2.7 kg)
Product Dimensions (L x W x H)	14.53" x 4.72" x 10.08"
Chuck Type	SDS-Plus

Warranty and Support

Makita products are manufactured under strict quality control and inspection standards. This product is covered by Makita's standard warranty against defects in materials and workmanship. For specific warranty terms, registration, and service inquiries, please refer to the official Makita website or contact Makita customer support directly. Keep your purchase receipt as proof of purchase.

For further assistance, visit the official Makita website or contact their customer service department. Contact information can typically be found on the manufacturer's website or on the product packaging.

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