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Makita DHR182Z

Makita DHR182Z Cordless Combination Hammer User Manual

Model: DHR182Z | Brand: Makita

1. Introduction

The Makita DHR182Z Cordless Combination Hammer is a powerful and versatile tool designed for a variety of tasks including chiselling, drilling, and hammer drilling. It features an SDS-PLUS attachment and the Auto-Start Wireless System (AWS) for enhanced convenience. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your tool.



Figure 1: Makita DHR182Z Cordless Combination Hammer (tool only, battery and charger not included).

2. Key Features

- **Brushless Motor:** Provides increased endurance, longer service life, and a more compact design compared to brushed motors.
- **Anti-Vibration Technology (AVT):** Significantly reduces vibration transmitted to the user, enhancing comfort and allowing for longer periods of use without fatigue.
- **SDS-PLUS Attachment:** Enables quick and secure bit changes, improving productivity.
- **Constant Electronics:** Maintains consistent power and speed under load for stable performance.
- **Motor Brake:** Quickly stops the bit rotation upon releasing the trigger, enhancing safety and control.
- **Bright Double LED with Afterglow Function:** Illuminates the work area for improved visibility, especially in low-light conditions.
- **AWS Auto-Start Wireless System (Adapter Included):** Allows for wireless connection to compatible dust extractors, which automatically start when the tool is switched on, ensuring a cleaner work environment.



Figure 2: Makita DHR182Z in operation, demonstrating its compact design and ease of use for drilling tasks.

3. Setup

3.1 Battery Installation (Battery and Charger Sold Separately)

1. Ensure the tool is switched off.
2. Align the battery pack with the battery housing on the tool.
3. Slide the battery pack into the housing until it clicks securely into place. Do not force it.
4. To remove, press the release button on the battery pack and slide it out.

3.2 Attaching Accessories (Side Handle and Depth Gauge)

1. Loosen the side handle clamp by rotating it counter-clockwise.
2. Slide the side handle onto the barrel of the tool.
3. Insert the depth gauge into the hole on the side handle.
4. Adjust the side handle and depth gauge to the desired position and tighten the clamp by rotating it clockwise until secure.

3.3 Installing SDS-PLUS Bits

1. Clean the bit shank before insertion.
2. Pull back the chuck sleeve and insert the bit into the chuck.
3. Release the chuck sleeve. The bit should be held securely but allow for slight axial movement (this is normal for SDS-PLUS systems).
4. To remove, pull back the chuck sleeve and pull the bit out.

4. Operating Instructions

4.1 Mode Selection

The DHR182Z offers three operating modes, selected via the mode selector switch:

- **Rotation Only (Drill Mode):** For drilling into wood, metal, and plastic.
- **Rotation with Hammering (Hammer Drill Mode):** For drilling into concrete, masonry, and stone.
- **Hammering Only (Chisel Mode):** For light chiselling, chipping, and demolition work. Ensure the bit is correctly oriented for chiselling.

4.2 Starting and Stopping the Tool

- To start, pull the trigger switch. The LED work light will illuminate.
- To stop, release the trigger switch. The motor brake will quickly stop the bit.

4.3 Variable Speed Control

The tool features a variable speed trigger. Pressing the trigger further increases the speed and impact rate. This allows for precise control depending on the material and application.

5. Maintenance

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

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent overheating. Wipe down the exterior with a soft, damp cloth. Do not use harsh chemicals 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. Do not store fully discharged batteries for extended periods.
- **Inspection:** Periodically inspect the power cord (if using a corded charger), switches, and housing for any damage. If damage is found, have the tool serviced by a qualified technician.

6. Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or improperly installed.	Charge battery fully. Ensure battery is securely clicked into place.
Reduced power/performance.	Low battery charge; Worn or dull bit; Overload protection activated.	Recharge battery. Replace bit. Reduce pressure or allow tool to cool down.
Excessive vibration.	Improperly installed bit; Damaged bit; Internal issue.	Reinstall bit correctly. Replace damaged bit. If problem persists, seek professional service.
Bit not rotating in drill mode.	Mode selector switch set to hammering only.	Set mode selector switch to "Rotation Only" or "Rotation with Hammering".

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Makita customer support.

7. Specifications

Specification	Value
Brand	Makita
Model Number	DHR182Z
Power Source	Battery Powered (18V)
Single Impact Strength	1.7 J
Ideal Drilling Range (Concrete)	5 - 8 mm
Drilling Capacity in Masonry	18 mm
Drilling Capacity in Wood	24 mm
Drilling Capacity in Steel	13 mm
Idle Impact Rate	0-5,000 min^{-1}
Idle Speed	0-1,350 min^{-1}
Item Weight	2.1 Kilograms (approx. 4.62 pounds)
Product Dimensions	5.27"L x 1.43"W x 3.95"H
Chuck Type	SDS-PLUS

8. Warranty and Support

Makita products are manufactured under strict quality control and inspection standards. This product is covered by Makita's standard warranty. For specific warranty terms, registration, or to locate an authorized service center, please refer to the warranty card included with your product or visit the official Makita website.

For technical assistance, troubleshooting, or spare parts inquiries, please contact Makita customer support. Have your model number (DHR182Z) and serial number ready when contacting support.

You can visit the official Makita Store for more information:Makita Store on Amazon

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