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Makita DHP482ZJ

Makita DHP 482 ZJ Cordless Hammer Drill User Manual

Model: DHP482ZJ

1. Introduction and Product Overview

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita DHP 482 ZJ Cordless Hammer Drill. Please read this manual thoroughly before using the tool to ensure proper handling and to maximize its lifespan.
The Makita DHP 482 is a versatile impact drill featuring a 2-speed full metal planetary gear system with durable metal gears. It is powered by a robust 4-pin DC motor and offers 21-fold torque adjustment, an extra drill setting, and an impact function for various applications. Equipped with XPT (eXtreme Protection Technology), the machine is protected from dust and splashes of water, enhancing its durability. Additional features include an integrated LED light for illuminating the work area, an electronic motor brake for increased safety, and a 13 mm keyless chuck for quick bit changes.

2. Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Keep this manual for future reference.

- **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:** Avoid body contact with earthed or grounded surfaces (e.g., pipes, radiators, ranges, refrigerators). 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. 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.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

3. Components and Features

The Makita DHP 482 ZJ comes with the following components and features:

- 1 x Makita DHP 482 Z 18 V Li-Ion battery impact drill Solo
- 1 x Makita Makpac II system case
- 1 x convoluted foam insert

- 1 x belt clip
- *Note: Battery and charger are not included and must be purchased separately.*

Key Features:

- **2-Speed Full Metal Planetary Gears:** Provides optimal speed and torque for various drilling and fastening applications.
- **Powerful 4-Pole DC Motor:** Delivers high performance and efficiency.
- **21-Fold Torque Adjustment:** Allows precise control for screwdriving to prevent over-tightening or stripping.
- **Impact Function:** Enables efficient drilling in masonry and other hard materials.
- **XPT (eXtreme Protection Technology):** Enhances tool durability by protecting against dust and water splashes.
- **Integrated LED Light:** Illuminates the work area for improved visibility in dimly lit conditions.
- **Electronic Motor Brake:** Stops rotation quickly for increased user safety and control.
- **13 mm Keyless Chuck:** Facilitates quick and easy bit changes without the need for a chuck key.



Figure 3.1: The Makita DHP 482 ZJ Cordless Hammer Drill shown alongside its Makpac 2 system case. The image highlights the compact design of the drill and the robust storage solution provided by the case, which is ideal for transport and protection.



Figure 3.2: A detailed view of the Makita DHP 482 ZJ Cordless Hammer Drill, showcasing its ergonomic grip, chuck, and control switches. This image emphasizes the tool's design for comfortable handling and precise operation.

4. Setup

4.1 Battery Installation

This tool operates on an 18V Lithium-Ion battery (not included). Ensure you use genuine Makita 18V LXT batteries for optimal performance and safety.

1. Align the battery pack with the battery port on the tool's handle.
2. Slide the battery pack into the port until it clicks securely into place.
3. To remove, press the release button(s) on the side of the battery pack and slide it out.

4.2 Bit Installation (Keyless Chuck)

1. Rotate the chuck counter-clockwise to open the jaws.
2. Insert the drill bit or screwdriver 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.

4.3 Mode and Torque Selection

- **Mode Selector Ring:** Rotate the ring behind the chuck to select between drilling (drill icon), hammer drilling (hammer icon), and screwdriving (screw icon).

- **Torque Adjustment Ring:** For screwdriving, rotate the numbered ring to select the desired torque setting (1-21). Higher numbers indicate higher torque. Use a lower setting for smaller screws or softer materials, and a higher setting for larger screws or harder materials.
- **Speed Selector Switch:** Located on top of the tool, this switch allows you to select between two mechanical speed ranges: "1" for low speed/high torque (ideal for heavy-duty screwdriving or large diameter drilling) and "2" for high speed/low torque (ideal for fast drilling).

5. Operating Instructions

5.1 Basic Operation

- **Trigger Switch:** Press the trigger switch to start the tool. The speed increases with increased pressure on the trigger.
- **Reversing Switch:** Located above the trigger, this switch changes the direction of rotation. Push it to the left for forward (clockwise) rotation and to the right for reverse (counter-clockwise) rotation. Position it in the center to lock the trigger and prevent accidental starting.
- **LED Work Light:** The integrated LED light illuminates the work area automatically when the trigger is pulled.

5.2 Drilling

- Select the appropriate drill bit for the material (wood, metal, masonry).
- Set the mode selector to the drill icon for wood/metal or the hammer drill icon for masonry.
- Choose the appropriate speed setting (Speed 1 for larger holes, Speed 2 for smaller holes or faster drilling).
- Hold the tool firmly and apply steady, even pressure. Allow the tool to do the work.

5.3 Screwdriving

- Select the appropriate screwdriver bit.
- Set the mode selector to the screwdriving icon.
- Adjust the torque setting according to the screw size and material. Start with a lower setting and increase if necessary.
- Apply firm, steady pressure to prevent the bit from camming out of the screw head.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita DHP 482 ZJ.

- **Cleaning:** After each use, wipe down the tool with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep the ventilation openings clear of dust and debris.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits. A small amount of silicone spray can help keep the chuck operating smoothly.
- **Storage:** Store the tool in its Makpac case in a cool, dry place, away from direct sunlight and moisture. Remove the battery pack before storing for extended periods.
- **Inspection:** Regularly inspect the tool for any signs of damage, loose screws, or worn parts. If any damage is found, have the tool serviced by a qualified Makita service center.

7. Troubleshooting

Before contacting a service center, try these simple troubleshooting steps:

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or not properly inserted. Trigger lock engaged.	Ensure battery is fully charged and securely inserted. Disengage the trigger lock by centering the reversing switch.
Reduced power or performance.	Low battery charge. Incorrect speed/torque setting for the task. Overload protection activated.	Recharge battery. Adjust speed and torque settings. Allow tool to cool down if it has been under heavy load.
Bit slips in chuck.	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Retighten chuck firmly. Clean or replace the bit.
Excessive vibration or noise.	Damaged bit. Loose components.	Replace damaged bit. Inspect tool for loose parts; if found, seek professional service.

8. Specifications

Specification	Value
Brand	Makita
Model Number	DHP482ZJ
Power Source	Battery Powered
Voltage	18 V
Maximum Chuck Size	13 Millimeters
Color	White
Special Feature	Cordless
Material	Metal
Maximum Torque	62 Newton Meters
Number of Speeds	2
Item Weight	3.2 Kilograms (7.04 pounds)
Drill Type	Hammer Drill
Product Dimensions	9.02 x 2.36 x 4.8 inches
Batteries Included?	No
Batteries Required?	Yes
Battery Cell Type	Lithium Ion
Included Components	1 x Makita DHP 482 Z 18 V Li-Ion battery impact drill Solo, 1 x Makita Makpac II, 1 x convoluted foam insert, 1 x belt clip

9. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or visit the official Makita website. Makita provides comprehensive support for its products.
If you require technical assistance, parts, or service, please contact Makita customer support or an authorized Makita service center. You can find more information and contact details on the official Makita website: www.makita.com

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