Makita DHP487Z

Makita DHP487Z 18V Li-ion LXT Brushless Combi Drill Instruction Manual

Model: DHP487Z

Introduction

The Makita DHP487Z is a compact and powerful 18V Li-ion LXT Brushless Combi Drill designed for a wide range of drilling, fastening, and hammer drilling applications. Its brushless motor ensures efficiency and durability, while features like variable speed control and multiple torque settings provide precise control for various tasks. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DHP487Z combi drill.





Figure 1: Makita DHP487Z 18V Li-ion LXT Brushless Combi Drill. This image shows the drill unit with a screwdriver bit, highlighting its compact design and key features like the chuck and handle.

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 drill in hammer mode or for extended periods. Dress properly; avoid loose clothing or jewelry.
- **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 Compatibility:** The DHP487Z is designed for 18V Li-ion LXT slide type batteries. It is**not compatible with G-Series batteries**. Use of non-genuine or compatible batteries and chargers will invalidate the Makita guarantee.

Package Contents

Upon opening the package, ensure all listed items are present and undamaged. If any items are missing or damaged, contact your retailer immediately.

- 1 x Makita DHP487Z 18V Li-ion LXT Brushless Combi Drill (Tool Only)
- 1 x Screwdriver bit
- Instruction Manual

Note: Batteries and charger are not included with the DHP487Z tool body and must be purchased separately.



Figure 2: Packaging of the Makita DHP487Z Cordless Hammer Driver Drill. This image displays the product box, indicating the model number DHP487Z and highlighting its 18V Lithium-Ion LXT Brushless technology.


makita
Cordless
Hammer Driver Drill
LXT
18V
LITHIUM-ION
BL
MOTOR
XPT
• Cordless Hammer Driver Drill
• Perceuse Percussion-Visseuse sans Fil
• Rotomartillo Atornillador Inalámbrico
• Akku- Schlagbohrschrauber
• Аккумуляторная
ударная дрель-шуруповерт
DHP487Z
UK CA CE
S/N 24001Y
0 88381 74033 3

Figure 3: Side view of the Makita DHP487Z product box, showing the UPC barcode (088381740333) and serial number information, confirming the product's authenticity.

Setup

1. Battery Installation and Removal

The DHP487Z uses 18V Li-ion LXT slide-type batteries. Ensure the battery is fully charged before use.

- **To Install:** Align the battery pack with the groove in the tool's handle and slide it in until it clicks into place. Ensure it is securely latched.
- **To Remove:** Press the release button on the battery pack and slide the battery out of the tool.

2. Bit Installation (Single Sleeve Keyless Chuck)

The drill features a single sleeve keyless chuck for quick and easy bit changes.

1. To open the chuck jaws, hold the chuck body and rotate the sleeve counter-clockwise.
2. Insert the drill bit or screwdriver bit fully into the chuck.
3. To tighten, hold the chuck body and rotate the sleeve clockwise until the bit is firmly secured. A clicking sound may indicate the chuck is fully tightened.

Operating Instructions

1. Power On/Off and Variable Speed Control

The trigger switch controls the tool's operation and speed.

- To start the tool, pull the trigger switch. The tool speed increases with increasing pressure on the trigger switch.
- To stop the tool, release the trigger switch.

2. Forward/Reverse Rotation

The forward/reverse switch is located above the trigger. Push the lever from either side to select rotation direction.

- For forward rotation (clockwise), push the lever from the right side.
- For reverse rotation (counter-clockwise), push the lever from the left side.
- When the lever is in the center position, the trigger switch is locked, preventing accidental startup.

3. Mechanical Gear Selection (2-Speed)

The DHP487Z features two mechanical gears for optimal performance in different applications.

- **High Speed Mode (Gear 2):** For speedy drilling in light-duty applications. Select this gear by sliding the gear selector switch to the "2" position.
- **Low Speed Mode (Gear 1):** For heavy-duty applications requiring high torque, such as driving large screws or drilling large holes. Select this gear by sliding the gear selector switch to the "1" position.
- Always ensure the tool is stopped before changing gear settings to prevent damage.

4. Torque Settings and Drill Mode

The torque setting ring allows you to adjust the clutch to prevent over-tightening screws or damaging materials. The drill also has a dedicated drill mode and hammer drill mode.

- **Torque Settings (1-20):** Rotate the ring to select one of the 20 torque settings. Lower numbers provide less torque, suitable for smaller screws or softer materials. Higher numbers provide more torque.
- **Drill Mode (⚙ symbol):** For general drilling applications without clutch action. The drill will operate at full torque.
- **Hammer Drill Mode (⚒ symbol):** For drilling into masonry materials. This mode engages the hammer mechanism for impact drilling.



Figure 4: Makita DHP487Z in operation, demonstrating its use for drilling. The image highlights the integrated LED job light illuminating the work area, enhancing visibility during tasks.

5. LED Job Light

The drill is equipped with twin LED job lights that illuminate the work area when the trigger switch is pulled. The lights will stay on for a short period after the trigger is released.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita DHP487Z.

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent dust accumulation, which can cause overheating. Use a soft, dry cloth to wipe down the tool. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight and heat. Do not store fully discharged batteries for extended periods.
- **Storage:** When not in use, store the drill in a secure, dry place out of reach of children. Remove the battery pack before storage.
- **Inspection:** Before each use, inspect the tool for any signs of damage, loose screws, or worn parts. If any issues are found, have the tool serviced by a qualified Makita service center.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery not inserted correctly or discharged. Trigger lock engaged.	Ensure battery is fully inserted and charged. Check forward/reverse switch is not in the center (locked) position.
Reduced power or speed.	Low battery charge. Overload protection activated.	Recharge the battery. Reduce load on the tool. Allow the tool to cool down if it has been continuously used under heavy load.
Bit slips in chuck.	Chuck not tightened sufficiently. Chuck jaws are dirty.	Re-tighten the chuck firmly. Clean the chuck jaws and the bit shank.
Hammer function not working.	Tool not in hammer drill mode.	Ensure the mode selector ring is set to the hammer drill symbol (⚒).

Specifications

Feature	Specification
Model Number	DHP487Z

Feature	Specification
Voltage	18V
Battery Type	Li-ion LXT (Not compatible with G-Series batteries)
Motor Type	Brushless
No Load Speed (High)	0 - 1,700 RPM
No Load Speed (Low)	0 - 500 RPM
Blows Per Minute (BPM)	0 - 25,500 BPM
Max Fastening Torque	40 Nm (350 in-lbs)
Torque Settings	20 + Drill Mode + Hammer Drill Mode
Chuck Capacity	1.5 - 13 mm (1/16" - 1/2")
Max Drilling Capacity (Steel)	13 mm (1/2")
Max Drilling Capacity (Wood)	36 mm (1-7/16")
Max Drilling Capacity (Masonry)	13 mm (1/2")
Overall Length	164 mm (6-1/2")
Net Weight	1.0 kg (2.2 lbs) (Tool only)
Included Components	1 x Makita DHP487Z, 1 x Screwdriver bit

Warranty and Support

Makita offers a manufacturer warranty for the DHP487Z. Please refer to the details below:

- **Standard Warranty:** 1 year manufacturer warranty from the date of purchase.
- **Extended Warranty:** An additional 2 years of warranty can be obtained by registering your product within 30 days of purchase. Visit the official Makita website for registration details.
- **Warranty Exclusions:** This guarantee does not apply where non-genuine or recommended parts or accessories are fitted to the tool. The use of non-genuine or compatible batteries and chargers with Makita tools will invalidate the Makita guarantee for our tools.

Customer Support

For technical assistance, service, or warranty claims, please contact Makita customer support or visit their official website:
Makita Official Website: www.makita.com
Please have your model number (DHP487Z) and purchase information ready when contacting support.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question