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Makita DHP482RT1J

Makita DHP482Z LXT 18V Combi Drill User Manual

Model: DHP482RT1J

1. Introduction

Thank you for choosing the Makita DHP482Z LXT 18V Combi Drill. This powerful and versatile tool is designed for a wide range of drilling and fastening applications in wood, metal, and masonry. Its compact design, ergonomic grip, and advanced features make it an ideal choice for both DIY enthusiasts and light professional use. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new combi drill.



Figure 1: Makita DHP482Z LXT 18V Combi Drill with included accessories.

2. Safety Information

Always observe basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating this product.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep work area clean and well lit. 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. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and a dust mask when necessary. 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

plug from the power source and/or 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.

Specific Safety Warnings for Combi Drill:

- Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
- Hold the power tool by insulated gripping surfaces when performing an operation where the cutting accessory or fasteners may contact hidden wiring.
- Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
- The chuck may become hot after prolonged use. Avoid direct contact with the chuck after operation.

3. Included Components

Your Makita DHP482Z LXT Combi Drill package typically includes the following items:

- Makita DHP482Z Combi Drill Unit
- 1 x Makita BL1850 5.0 Ah Lithium-Ion Battery
- 1 x Makita DC18RC Charger
- Insert (for case, note: case is not included with the product)



Figure 2: Main components of the Makita DHP482Z LXT kit.

4. Setup

4.1. Charging the Battery

1. Connect the DC18RC charger to a suitable power outlet.
2. Slide the BL1850 5.0 Ah battery pack onto the charger until it clicks into place.
3. The charger's indicator light will show the charging status. A fully discharged 5.0 Ah battery typically takes approximately 45 minutes to fully charge.
4. Once charging is complete, remove the battery from the charger.

4.2. Installing/Removing the Battery

- **To Install:** Align the battery pack with the battery port on the drill handle and slide it in until it locks securely.
- **To Remove:** Press the release button on the battery pack and slide it out of the drill.



Figure 3: Battery installation area on the drill.

4.3. Installing/Removing Drill Bits or Driver Bits

The DHP482Z features a single-sleeve keyless drill chuck (1.5 - 13 mm capacity).

1. **To Install:** Hold the rear ring of the chuck and turn the front sleeve counter-clockwise to open the chuck jaws. Insert

the drill bit or driver bit fully into the chuck. Turn the front sleeve clockwise to tighten the chuck jaws securely around the bit.

2. **To Remove:** Hold the rear ring and turn the front sleeve counter-clockwise to loosen the chuck jaws, then pull the bit out.



Figure 4: Keyless chuck and torque adjustment ring.

5. Operating Instructions

5.1. Power On/Off and Variable Speed Control

The drill is activated by pressing the trigger switch. The speed is variable and controlled by the amount of pressure applied to the trigger. Pressing the trigger further increases the speed.

5.2. Forward/Reverse Rotation

A lever located above the trigger switch controls the direction of rotation. Push the lever to the left for forward rotation (drilling/fastening) and to the right for reverse rotation (removing screws). Ensure the lever is in the center position to lock the trigger for safety when not in use.

5.3. 2-Speed Mechanical Control

The drill features a mechanical 2-speed gearbox, allowing you to select between high speed (for drilling small holes or

light fastening) and low speed (for high torque applications like driving large screws or drilling large holes).

- **"2" (High Speed):** 0 - 1,900 RPM (Drilling) / 0 - 28,500 BPM (Hammer Drilling)
- **"1" (Low Speed):** 0 - 600 RPM (Drilling) / 0 - 9,000 BPM (Hammer Drilling)

To change speeds, slide the speed change lever located on top of the drill. Ensure the drill is stopped before changing speeds to prevent gear damage.

5.4. Torque Settings and Drilling Modes

The torque adjustment ring allows you to select from 21 different torque settings for precise screw driving, plus a dedicated drill mode for drilling applications.

- **Torque Settings (1-21):** Use these settings for driving screws. The clutch will disengage when the set torque is reached, preventing over-tightening or stripping screws. Start with a lower setting and increase as needed.
- **Drill Mode (Drill Bit Symbol):** For general drilling in wood and metal. The clutch does not engage in this mode, providing maximum torque.
- **Hammer Drill Mode (Hammer Symbol):** For drilling in masonry. This mode activates the hammer action for faster drilling in hard materials.



Figure 5: Drill in operation, highlighting the LED job light.

5.5. LED Job Light

The integrated twin LED job light illuminates the work area for improved visibility, especially in dimly lit conditions. It activates when the trigger is pressed.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita DHP482Z LXT Combi Drill.

6.1. Cleaning

- Always disconnect the battery pack before cleaning.
- Wipe the tool body with a soft, damp cloth. Do not use strong solvents or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating. Use compressed air if necessary.
- Clean the chuck jaws regularly to ensure proper bit gripping.

6.2. Battery Care and Storage

- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, charge batteries to approximately 50% capacity.
- Do not store batteries with metal objects that could short the terminals.

6.3. General Storage

When not in use, store the drill in a secure, dry place out of reach of children. Remove the battery pack from the tool before storage.

7. Troubleshooting

This section addresses common issues you might encounter with your Makita DHP482Z LXT Combi Drill.

Problem	Possible Cause	Solution
Drill does not start.	Battery not charged or improperly installed. Trigger lock engaged.	Ensure battery is fully charged and securely installed. Disengage the forward/reverse lever from the center (locked) position.
Loss of power during operation.	Battery low. Overload protection activated.	Recharge battery. Reduce pressure on the drill or use a lower speed setting for heavy-duty tasks.
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. Check for any loose parts and tighten if possible. If problem persists, contact Makita service.

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

8. Specifications

Key technical specifications for the Makita DHP482Z LXT 18V Combi Drill:

Feature	Specification
Model Number	DHP482RT1J
Voltage	18 Volts
Battery Capacity	5.0 Ah (Lithium-Ion)
Chuck Size	1.5 - 13 mm (Keyless)
No Load Speed (High)	0 - 1,900 RPM

Feature	Specification
No Load Speed (Low)	0 - 600 RPM
Blows Per Minute (High)	0 - 28,500 BPM
Blows Per Minute (Low)	0 - 9,000 BPM
Max Fastening Torque (Hard/Soft)	62 Nm / 36 Nm
Max Drilling Capacity (Wood)	38 mm
Max Drilling Capacity (Steel)	13 mm
Max Drilling Capacity (Masonry)	13 mm
Torque Settings	21 + Drill Mode
Dimensions (L x W x H)	Approx. 11.81"L x 11.81"W x 11.81"H
Net Weight (with battery)	Approx. 10.98 pounds
Special Features	Variable Speed, Twin LED Job Light, Electric Brake, All Metal Gears

9. Warranty and Support

Makita products are manufactured under strict quality control standards. For information regarding warranty coverage, service, or technical support, please refer to the warranty card included with your product or visit the official Makita website.

You can also find more information and contact details on the official Makita store page: Makita Store on Amazon.

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