Makita DHP482Z

Makita DHP482Z 18V LXT Impact Drill

User Instruction Manual

Model: DHP482Z | Brand: Makita

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita DHP482Z 18V LXT Impact Drill. Please read this manual thoroughly before using the tool to ensure proper handling and to maximize its lifespan and performance. This versatile tool is designed for drilling into wood, metal, and masonry, as well as for driving screws.

Safety Instructions

Always follow basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Keep this instruction 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 such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use safety glasses, goggles, or a face shield. Use hearing protection for prolonged operation. Wear a dust mask if operations create dust.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

Components Overview

Familiarize yourself with the main components of your Makita DHP482Z Impact Drill:

1. **Chuck:** Keyless chuck for quick and easy bit changes.
2. **Torque Setting Ring:** Adjusts the clutch setting for driving screws.
3. **Mode Selector Ring:** Switches between drill, impact drill, and driver modes.
4. **Speed Selector Switch:** Controls high and low-speed gears.
5. **Trigger Switch:** Activates the tool and controls variable speed.
6. **Reversing Switch:** Changes the direction of rotation (forward/reverse).
7. **LED Job Light:** Illuminates the work area.
8. **Battery Pack:** 18V LXT Lithium-Ion battery (sold separately).
9. **Belt Clip:** For convenient carrying.



Figure 1: Main view of the Makita DHP482Z Impact Drill, highlighting its compact design and key features.

Setup

Battery Installation and Charging

The Makita DHP482Z operates on an 18V LXT Lithium-Ion battery (not included with machine only models). Ensure the battery is fully charged before use.

- To install the battery: Align the battery pack with the grooves in the tool's handle and slide it in until it clicks into place.
- To remove the battery: Press the release button on the battery pack and slide it out.

- To charge: Refer to your Makita battery charger's instruction manual for proper charging procedures.

Installing Drill Bits or Driver Bits

The keyless chuck allows for quick and secure bit changes.

1. Rotate the chuck counter-clockwise to open the jaws.
2. Insert the desired drill bit or driver bit fully into the chuck.
3. Rotate the chuck clockwise to tighten the jaws securely around the bit. Ensure the bit is centered and firmly gripped.



Figure 2: Front view of the Makita DHP482Z, showing the chuck and mode selector for bit installation.

Operating Instructions

Selecting Speed

The tool features two mechanical speed settings:

- **"1" (Low Speed):** For heavy-duty applications requiring high torque, such as driving large screws or drilling large holes in tough materials. Maximum 500 RPM.
- **"2" (High Speed):** For faster drilling and lighter driving applications. Maximum 1900 RPM.

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

Selecting Operating Mode

Rotate the mode selector ring to choose the appropriate mode for your task:

- **Drill Mode (Drill Bit Icon):** For drilling into wood, metal, and plastic. The clutch is disengaged, providing full power.
- **Impact Drill Mode (Hammer Icon):** For drilling into masonry and concrete. Provides a hammering action in addition to rotation.
- **Driver Mode (Screw Icon):** For driving screws. The clutch will slip when the set torque is reached, preventing overtightening or stripping. Adjust the torque setting ring for desired torque.

Drilling and Driving

Hold the tool firmly with both hands if possible, especially during high-torque applications. Position the bit on the workpiece and press the trigger switch to start. The LED job light will illuminate the work area when the trigger is pulled.



Figure 3: The Makita DHP482Z in action, demonstrating its use for driving screws into wood.

Maintenance

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

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent overheating. Use a soft, damp cloth. Do not use strong detergents or solvents.
- **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. Do not store fully discharged batteries for extended periods.
- **Inspection:** Before each use, inspect the tool for any damage, loose screws, or worn parts. If any issues are found, have the tool serviced by a qualified technician.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Tool does not start.	Battery not charged or improperly installed.	Charge battery; ensure battery is fully inserted.
Reduced power or speed.	Low battery charge; incorrect speed setting.	Recharge battery; switch to higher speed setting if needed.
Bit slips in chuck.	Chuck not tightened sufficiently; dirty chuck jaws.	Tighten chuck firmly; clean chuck jaws.
Overheating.	Blocked ventilation slots; prolonged heavy use.	Clear ventilation slots; allow tool to cool down.

Specifications

Feature	Specification
Model Number	DHP482Z
Power Source	Battery Powered (18V LXT Lithium-Ion)
Maximum Rotational Speed	1900 RPM
Voltage	18 Volts
Amperage	5 Amps
Maximum Chuck Size	13 Millimeters
Maximum Torque	480 Inch Pounds (approx. 500 Newton Meters)
Number of Speeds	2
Drilling Capacity (Wood)	38 Millimeters
Drilling Capacity (Metal)	13 Millimeters
Item Weight	2.42 pounds (1.1 Kilograms)
Product Dimensions (L x W x H)	8.39" x 3.46" x 9.92"
Sound Level	93 dB

Warranty and Support

Makita power tools are engineered for durability and performance. For warranty information, please refer to the warranty card included with your purchase or visit the official Makita website. In case of technical issues or for spare parts, please contact Makita customer support or an authorized service center.
EU Spare Part Availability Duration: 1 Year (as per provided data).
For further assistance, please visit the Makita Store on Amazon.

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