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Makita XPH03Z

Makita 18V LXT 1/2 in. Brushless Cordless Hammer Drill/Driver

Model: XPH03Z

1. Introduction

This manual provides essential instructions for the safe and effective operation, maintenance, and care of your Makita 18V LXT 1/2 in. Brushless Cordless Hammer Drill/Driver, model XPH03Z. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

The Makita XPH03Z is a versatile tool designed for drilling, fastening, and hammer drilling applications. It features a powerful Makita-built 4-pole motor, a 2-speed mechanical transmission, and Extreme Protection Technology (XPT) for enhanced durability.

2. Safety Information

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

- **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 appropriate safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when necessary. Stay alert, watch what you are doing, and use common sense when operating a power tool.
- **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 remove the battery pack, if detachable, 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.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. Components

Familiarize yourself with the main components of your Makita Hammer Drill/Driver:



Figure 3.1: Overall view of the Makita XPH03Z Hammer Drill/Driver with attached side handle.

- **Chuck:** Holds drill bits and driver bits securely.
- **Torque/Mode Selector Ring:** Adjusts clutch settings for driving or selects drill/hammer drill modes.
- **Speed Selector Switch:** Changes between high and low-speed ranges.
- **Trigger Switch:** Activates the tool and controls variable speed.
- **Forward/Reverse Switch:** Changes rotation direction.
- **LED Work Light:** Illuminates the work area.
- **Side Handle:** Provides additional control and stability (removable).
- **Battery Terminal:** Connects to the 18V LXT Lithium-Ion battery (sold separately).

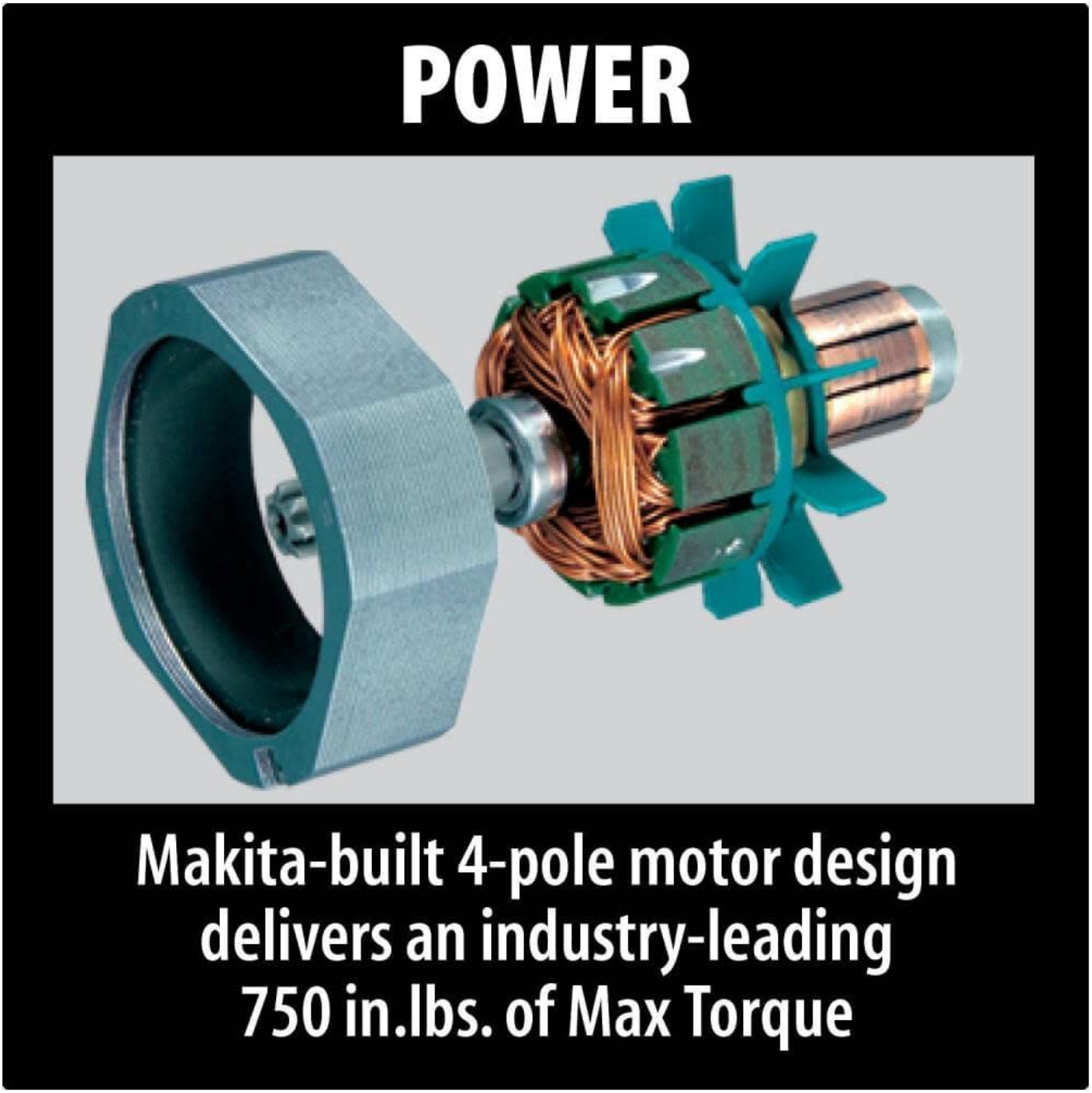


Figure 3.2: Illustration of the Makita-built 4-pole motor, designed for high torque output.



Figure 3.3: Depiction of the mechanical 2-speed transmission system, allowing for versatile applications.

4. Setup

4.1 Battery Installation and Removal

1. To install the battery (sold separately), align the battery's tongue with the groove in the tool's housing and slide it in until it locks into place.
2. To remove the battery, press the release button on the battery and pull it out of the tool.

Note: This is a 'tool only' product. Battery and charger are not included and must be purchased separately. Use only genuine Makita 18V LXT Lithium-Ion batteries with a Star symbol and compatible chargers.

4.2 Bit Installation

1. Rotate the chuck counter-clockwise to open the jaws.
2. Insert the 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

held.

4.3 Side Handle Attachment

The adjustable side handle provides increased control, especially during hammer drilling or high-torque applications.

1. Loosen the side handle grip by rotating it counter-clockwise.
2. Slide the handle onto the front of the drill housing.
3. Adjust the handle to a comfortable and secure position.
4. Tighten the handle grip by rotating it clockwise until it is firmly secured.

5. Operating Instructions

5.1 Selecting Operating Mode

The torque/mode selector ring allows you to choose between three primary modes:

- **Driving Mode (Clutch Settings):** Rotate the ring to one of the numbered settings (e.g., 1-21) for fastening screws. The clutch will disengage once the preset torque is reached, preventing overtightening or stripping.
- **Drill Mode (✍ symbol):** For general drilling into wood, metal, or plastic. The clutch does not engage in this mode, providing full torque.
- **Hammer Drill Mode (✍ with hammer symbol):** For drilling into masonry, concrete, or brick. This mode combines rotation with a hammering action.

5.2 Speed Selection

The mechanical 2-speed transmission allows you to select the appropriate speed range for your task:

- **Low Speed (0-400 RPM):** Use for high-torque applications, such as driving large fasteners or drilling large diameter holes.
- **High Speed (0-2,000 RPM):** Use for faster drilling of smaller holes or general driving tasks.

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

5.3 Forward/Reverse Rotation

The forward/reverse switch, located above the trigger, controls the direction of rotation. Push it to the left for forward (clockwise) rotation and to the right for reverse (counter-clockwise) rotation. Position the switch in the center to lock the trigger and prevent accidental startup.

5.4 Trigger Operation and LED Light

Squeeze the trigger switch to start the tool. The tool features variable speed, meaning the speed increases as you apply more pressure to the trigger. The dual LED lights will illuminate the work area when the trigger is pressed, and remain on for a short period after release (afterglow feature).



Figure 5.1: The compact and ergonomic design, along with the rubberized soft grip, enhances user comfort and control.

6. Maintenance

6.1 Cleaning

- Regularly clean the tool's ventilation openings to prevent overheating.
- Wipe the tool housing with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- The Extreme Protection Technology (XPT) provides improved dust and water resistance, but the tool should still be kept as clean and dry as possible.



Figure 6.1: Extreme Protection Technology (XPT) helps channel water and dust away from internal components.

6.2 Storage

- Store the tool in a clean, dry place, out of reach of children.
- Remove the battery pack from the tool before storage.

6.3 Battery Care

Makita 18V LXT batteries are equipped with Star Protection Computer Controls™, which protect against overloading, over-discharging, and overheating. For optimal battery life:

- Charge batteries using only Makita Rapid Optimum Chargers.
- Avoid fully discharging the battery before recharging.
- Store batteries in a cool, dry place.

7. Troubleshooting

If you encounter issues with your Makita Hammer Drill/Driver, consider the following common solutions:

- **Tool does not start:** Ensure the battery is fully charged and properly inserted. Check that the forward/reverse switch is not in the locked (center) position.
- **Reduced power or speed:** The battery may be low on charge. Recharge the battery. Ensure the correct speed setting is selected for the task.
- **Bit slipping in chuck:** Ensure the chuck is tightened securely around the bit. Check if the bit shank is clean and free of debris.
- **Overheating:** Allow the tool to cool down. Ensure ventilation slots are clear of obstructions. Avoid continuous heavy-duty use without breaks.

For persistent issues, contact Makita customer support or an authorized service center.

8. Specifications

Model	XPH03Z
Voltage	18V LXT Lithium-Ion
Chuck Size	1/2 inch
No Load Speed (Low)	0 - 400 RPM
No Load Speed (High)	0 - 2,000 RPM
Blows Per Minute (Low)	0 - 6,000 BPM
Blows Per Minute (High)	0 - 30,000 BPM
Maximum Torque	750 in.lbs. (84 N•m)
Capacity (Steel)	1/2 inch
Capacity (Wood)	3 inches
Capacity (Masonry)	5/8 inch
Overall Length	8-7/8 inches
Net Weight (with battery)	5.1 lbs.
Features	Brushless Motor, XPT (Extreme Protection Technology), Dual LED Lights, Star Protection Computer Controls™

9. Warranty and Support

Your Makita 18V LXT 1/2 in. Brushless Cordless Hammer Drill/Driver (model XPH03Z) is covered by a **3-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or to locate an authorized service center, please visit the official Makita

website or contact Makita customer service directly. Ensure you have your proof of purchase and the tool's model number available.

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