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Makita GPH01Z

Makita GPH01Z 1/2-inch Hammer Driver-Drill Instruction Manual

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita GPH01Z 1/2-inch Hammer Driver-Drill. Please read and understand all instructions before using the tool to ensure proper function and user safety.



Image: The Makita GPH01Z 1/2-inch Hammer Driver-Drill, shown with its auxiliary side handle attached, ready for use.

Safety Information

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

- **Work Area Safety:** Keep the 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.
- **Personal Safety:** Always wear eye protection. Use appropriate personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when necessary. Dress properly; avoid loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **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.

Components and Features

Familiarize yourself with the various parts and functions of your Makita GPH01Z Hammer Driver-Drill.

- **Keyless Chuck:** For quick and easy bit changes.
- **Mode Selector Ring:** Adjusts between drill, hammer drill, and driver modes.
- **Torque Selector Ring:** For driver mode, allows adjustment of clutch settings.
- **Speed Selector Switch:** Toggles between high and low-speed settings.
- **Trigger Switch:** Activates the tool and controls variable speed.
- **Forward/Reverse Switch:** Changes the direction of rotation.
- **LED Work Light:** Illuminates the work area.
- **Battery Indicator:** Displays remaining battery charge.
- **Auxiliary Handle:** Provides additional control and stability.
- **Battery Interface:** For Makita 40V XGT Lithium-Ion batteries.



Image: A cutaway view of the Makita GPH01Z, illustrating the internal brushless motor and robust gearbox components.



Image: Detailed view of the battery charge indicator (showing '4' bars of charge) and the mode selector switch on the tool's base.

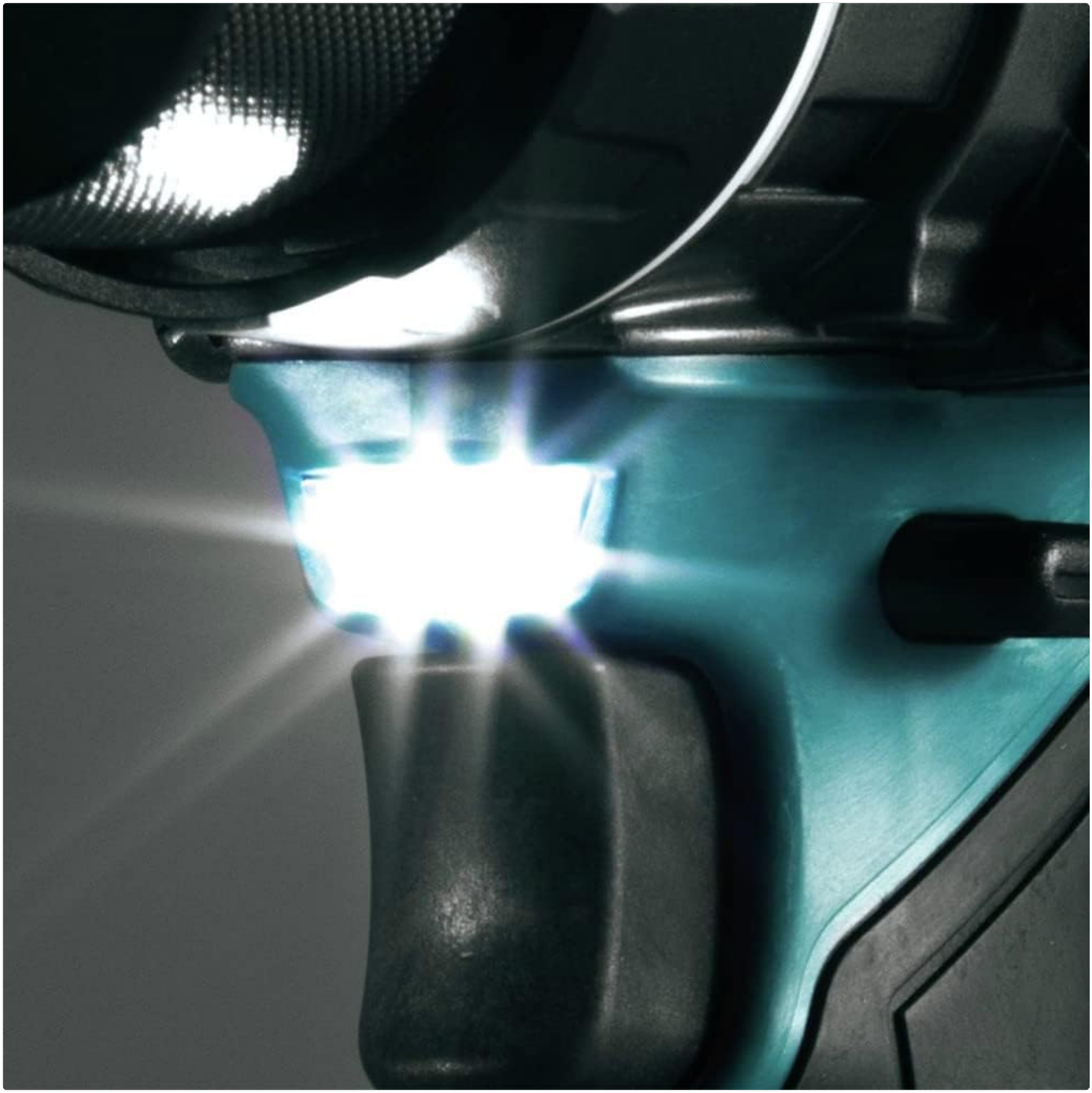


Image: A close-up showing the integrated LED work light illuminating the area directly in front of the chuck, activated by the trigger.



Image: A close-up of the two-speed selector switch, clearly indicating '2' for high speed, located on top of the drill housing.

Setup

Battery Installation and Removal

1. To install: Align the battery pack (Makita 40V XGT) with the housing and slide it in until it locks into place with a click.
2. To remove: Press the release button on the battery pack and slide it out of the tool.

Auxiliary Handle Attachment

1. Loosen the auxiliary handle by rotating it counter-clockwise.
2. Slide the handle over the chuck and onto the front of the drill housing.
3. Adjust the handle to the desired position and tighten by rotating clockwise until secure.

Drill Bit Installation and Removal

1. Ensure the tool is off and the battery is removed.
2. Rotate the chuck collar counter-clockwise to open the jaws.
3. Insert the drill bit or accessory fully into the chuck.
4. Rotate the chuck collar clockwise to tighten the jaws securely around the bit.
5. To remove: Rotate the chuck collar counter-clockwise and pull the bit out.

Operating Instructions

Powering On/Off and Variable Speed

The tool is activated by pressing the trigger switch. The speed increases as the trigger is pressed further. Release the trigger to turn the tool off.

Forward/Reverse Rotation

Push the forward/reverse switch to the left for forward rotation (drilling/driving) and to the right for reverse rotation (removing screws/bits). Ensure the switch is in the center position for locking the trigger.

Mode Selection

Rotate the mode selector ring to choose the desired operation:

- **Drill Mode:** For drilling into wood, metal, and plastic.
- **Hammer Drill Mode:** For drilling into masonry, concrete, and brick.
- **Driver Mode:** For driving screws, with adjustable torque settings.

Speed Selection

Use the speed selector switch on top of the tool to choose between:

- **Low Speed (1):** For heavy-duty applications, larger diameter drilling, or driving screws.
- **High Speed (2):** For faster drilling in smaller diameters or lighter materials.

Using the LED Work Light

The integrated LED work light automatically illuminates when the trigger is pressed, providing visibility in dimly lit areas.

Monitoring Battery Level

The battery indicator on the tool's base displays the remaining charge. Recharge the battery when the indicator shows a low level.

Application-Specific Use

Always select the appropriate mode and speed for the material and task. Apply steady, even pressure. For hammer drilling, allow the tool to do the work; excessive force is not required.



Image: The Makita GPH01Z Hammer Driver-Drill actively engaged in hammer drilling into a concrete surface, demonstrating its capability for masonry work.



Image: The Makita GPH01Z Hammer Driver-Drill being used to drill a large hole into a wooden beam with a spade bit, showcasing its power for wood applications.

Maintenance

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

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent dust accumulation. Use a soft, damp cloth. Do not use strong solvents.
- **Chuck Maintenance:** Periodically inspect the chuck jaws for wear or damage. Keep the chuck clean and free of debris.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods.
- **Storage:** When not in use, store the tool and accessories in a secure, dry location out of reach of children.

Troubleshooting

If you encounter issues with your Makita GPH01Z, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed; Trigger lock engaged; Tool malfunction.	Charge battery and ensure proper installation; Disengage trigger lock (forward/reverse switch in operating position); Contact service center if issue persists.
Reduced power or speed	Low battery charge; Incorrect speed setting; Overload protection activated.	Recharge battery; Select higher speed setting; Reduce load on the tool.
Chuck not holding bit	Bit not inserted fully; Chuck not tightened properly; Worn chuck jaws.	Ensure bit is fully inserted and chuck is tightened; Inspect chuck for wear and replace if necessary.

Specifications

Technical specifications for the Makita GPH01Z 1/2-inch Hammer Driver-Drill.

- **Model:** GPH01Z
- **Brand:** Makita
- **Power Source:** Cordless (Battery Powered)
- **Voltage:** 40 Volts (XGT Platform)
- **Maximum Chuck Size:** 0.5 Inches (1/2 inch)
- **Maximum Torque:** 1250 Inch Pounds
- **Speed:** Up to 2600 RPM (No-load speed)
- **Number of Speeds:** 2 (High/Low)
- **Drill Type:** Hammer Drill
- **Drilling Capacity Wood:** 3 Inches
- **Material:** Metal
- **Item Weight:** Approximately 0.01 Ounces (Tool Only, without battery)
- **Product Dimensions:** Approximately 12"L x 12"W x 12"H
- **Special Feature:** Variable Speed
- **UPC:** 088381894036

Warranty and Support

Your Makita GPH01Z 1/2-inch Hammer Driver-Drill 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 assistance, or service, please contact Makita customer support directly. Keep your proof of purchase for warranty validation.

For more information, visit the official Makita website or contact their authorized service centers.

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