Makita RP001GZ

Makita 40Vmax Cordless Router RP001GZ User Manual

Model: RP001GZ | Brand: Makita

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita 40Vmax Cordless Router, model RP001GZ. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.



Figure 1: Makita 40Vmax Cordless Router RP001GZ, showing its compact design and battery slot.

2. Safety Instructions

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

General Safety Rules:

- **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. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. Always wear eye protection and hearing protection.
- **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.

3. Components and Features

Familiarize yourself with the various parts and functions of your Makita Cordless Router.

3.1. Main Body and Handles



Figure 2: Front view of the router, highlighting the main body and ergonomic handles for comfortable operation.

The router features a robust main body housing the motor and a clear base for visibility during operation. Two large handles provide a secure and comfortable grip for various routing tasks.

3.2. Depth Adjustment Mechanism



Figure 3: Close-up of the precise depth adjustment dial and scale, allowing for fine-tuning of cutting depth.

The router is equipped with a precise depth adjustment dial, allowing users to easily set and lock the desired cutting depth. A lock lever is provided for quick locking and unlocking of the depth setting.

3.3. Power Button and Shaft Lock



Figure 4: Detail of the power button and the shaft lock mechanism, essential for safe bit changes.

The power button is conveniently located for easy access. A shaft lock mechanism simplifies bit changes, allowing for quick and secure bit installation or removal with a single wrench.

3.4. Wireless Dust Collection Switch

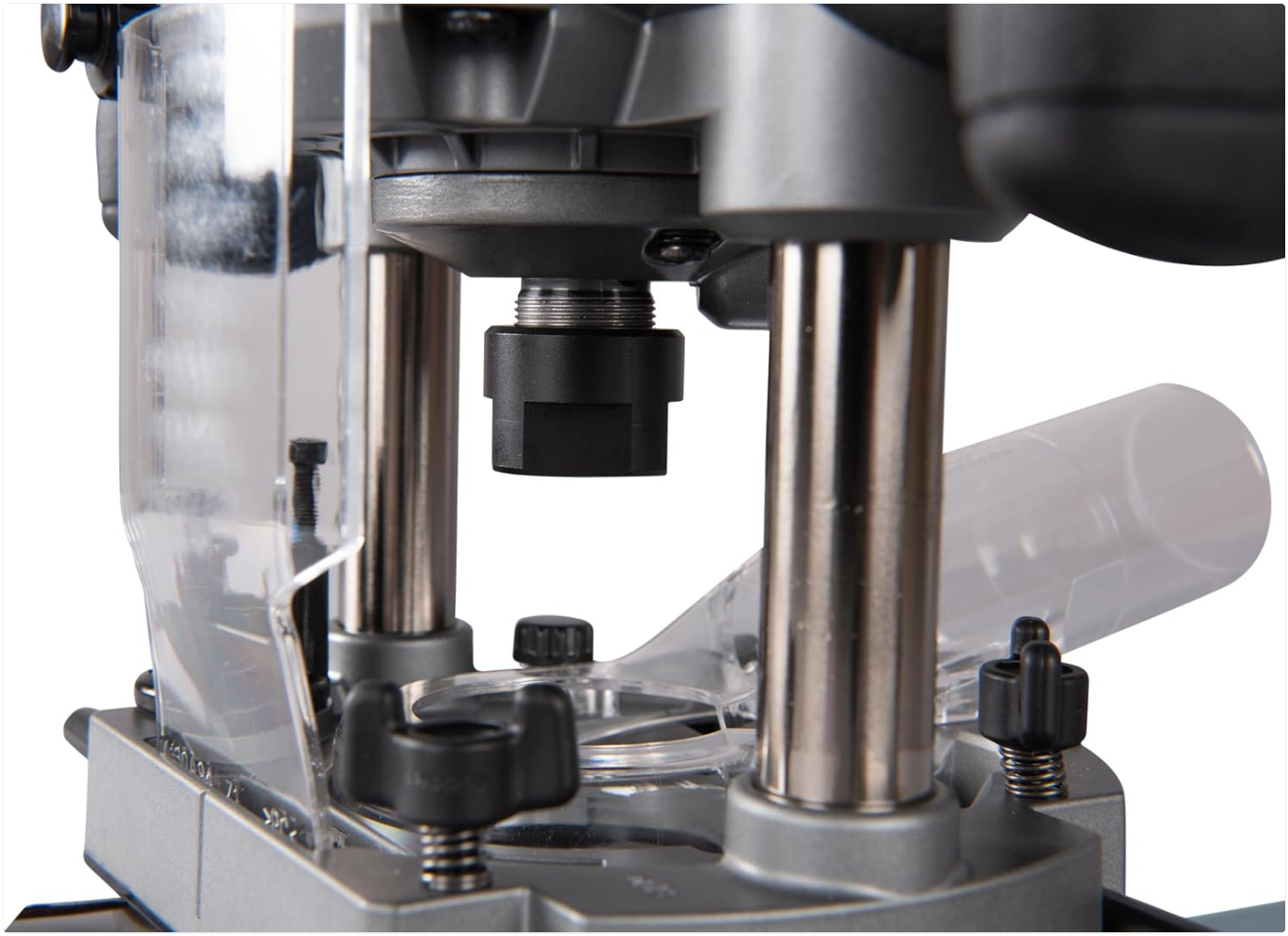


Figure 5: The wireless dust collection switch, enabling automatic dust extractor activation when the router is turned on.

This router supports wireless dust collection. When connected to a compatible dust extractor (sold separately), the dust extractor will automatically start when the router's power switch is turned ON, providing a cleaner work environment.

3.5. Chuck and Collet System



Figure 6: View of the chuck and collet system, designed for secure bit retention. The chuck diameter is 12mm.

The router features a 12mm chuck diameter and is compatible with 6mm and 8mm collet sleeves (included) for versatility with various bit sizes. Ensure bits are securely fastened before operation.

3.6. Dust Extraction Port



Figure 7: The integrated dust extraction port, allowing connection to a dust collection system for a cleaner workspace.

A dedicated dust extraction port is integrated into the base, allowing for connection to a dust collection system to minimize airborne dust during operation.

4. Setup

4.1. Battery Installation

This router operates on a 40Vmax slide-type Li-ion battery (sold separately). Ensure the battery is fully charged before installation.

1. Align the battery pack with the battery housing on the router.
2. Slide the battery pack into the housing until it clicks into place.
3. To remove, press the release button on the battery and slide it out.

4.2. Bit Installation

1. Ensure the router is switched off and the battery is removed.
2. Press and hold the shaft lock button.

3. Loosen the collet nut using the provided wrench.
4. Insert the desired router bit into the collet. Ensure at least 3/4 of the shank is inserted.
5. Tighten the collet nut firmly with the wrench while still holding the shaft lock button.
6. Release the shaft lock button.

4.3. Depth Adjustment

1. Place the router on a flat surface with the bit touching the surface.
2. Loosen the depth lock lever.
3. Rotate the depth adjustment dial to set the desired cutting depth. Refer to the scale for precise measurements.
4. Tighten the depth lock lever to secure the setting.
5. The stopper base allows for quick setting of three different cutting depths.

5. Operation

5.1. Powering On and Off

To turn on the router, press the power button. To turn it off, press the power button again.

5.2. Adjusting Rotation Speed

The router features a 5-stage rotation speed adjustment dial. Rotate the dial to select the appropriate speed for your material and bit type. The speed range is 8,000 to 31,000 RPM.

5.3. Routing Techniques



Figure 8: The router being used to cut a groove in a wooden workpiece, demonstrating its application.

- Always ensure the workpiece is securely clamped.
- Maintain a firm grip on both handles during operation.
- Move the router smoothly and consistently along the desired path. Avoid sudden movements.
- For best results and to prevent burning, make multiple shallow passes instead of one deep pass, especially with harder materials.
- The constant speed control feature ensures a clean cutting surface, even under load.

5.4. Dust Collection



Figure 9: The router connected to a dust collection hose, illustrating the wireless dust collection capability for a tidy workspace.

For optimal dust management, connect a compatible dust extractor to the router's dust extraction port. The wireless dust collection feature (with compatible dust extractor, sold separately) will automatically activate the extractor when the router is turned on, keeping your workspace clean.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your router.

- **Cleaning:** After each use, clean the router body and base with a soft, dry cloth. Remove any dust or debris from the chuck and collet area.
- **Bit Inspection:** Regularly inspect router bits for sharpness and damage. Dull or damaged bits can lead to poor cuts and increased strain on the tool.
- **Battery Care:** Store batteries in a cool, dry place. Do not expose them to extreme temperatures. Follow the charging instructions provided with your Makita charger.
- **Storage:** When not in use, store the router in a dry, secure location, out of reach of children.

7. Troubleshooting

This section addresses common issues you might encounter with your router.

Problem	Possible Cause	Solution
Router does not start.	Battery not installed correctly or discharged.	Ensure battery is fully charged and properly inserted.
Poor cutting performance / Rough cuts.	Dull or damaged bit; Incorrect speed setting; Feeding too fast.	Replace bit; Adjust speed dial; Reduce feeding rate.
Excessive vibration.	Bit not properly seated or damaged; Loose components.	Re-seat bit securely; Inspect bit for damage and replace if necessary; Check for loose screws.
Dust collection ineffective.	Dust port clogged; Hose disconnected; Dust extractor not compatible or turned off.	Clear dust port; Reconnect hose; Ensure compatible dust extractor is connected and powered on.

8. Specifications

Feature	Specification
Model Number	RP001GZ
Power Source	DC 36V (40Vmax) Li-ion Battery (sold separately)
Chuck Collet Capacity	12mm (also compatible with 6mm and 8mm collet sleeves)
No-Load Speed	8,000 - 31,000 RPM (5-stage adjustment)
Maximum Stroke Length	60mm
Minimum Overall Height	228mm (with BL4025 battery)
Dimensions (L x W x H)	135mm x 275mm x 288mm (with BL4025 battery)
Net Weight	3.9kg (with BL4025 battery)
Water Protection Rating	IPX4 (designed to be resistant to dust and water splashes, but not guaranteed against malfunction)
Approx. Work per Charge (BL4025)	Approx. 32m on 9mm particle board
Included Accessories	Straight bit 12, Straight guide, Template guide 16, Collet sleeves 6 & 8 (1 each), Wrench 8-24
UPC	197050005403



Figure 10: The 40Vmax Li-ion logo, indicating the battery platform used by this router.

9. Warranty and Support

For warranty information and customer support, please refer to the official Makita website or contact your local Makita service center. Keep your purchase receipt as proof of purchase for warranty claims.

Official Makita Website: www.makita.com



Figure 11: Front view of the product packaging, displaying key features and model information.

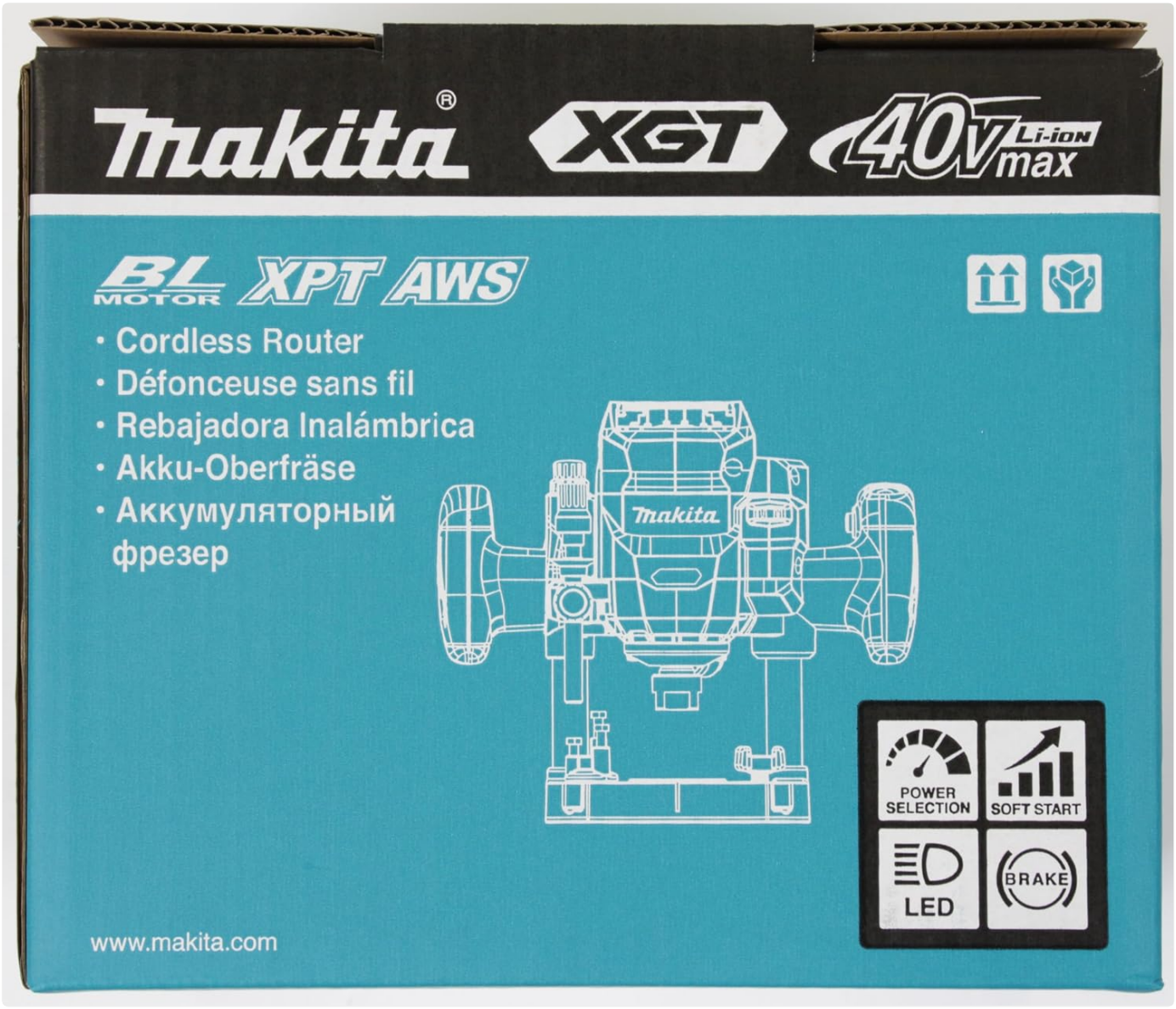


Figure 12: Back view of the product packaging, showing the barcode and serial number information.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question