Makita RF1101

Makita RF1101 2-1/4 HP Router User Manual

Model: RF1101 | Brand: Makita

Product Overview

The Makita RF1101 2-1/4 HP Router is a versatile power tool designed for precision routing tasks. It features an 11-amp motor, variable speed control, and a soft-start function for smooth operation. Its robust construction and ergonomic design ensure comfortable and efficient use.



Figure 1: Main view of the Makita RF1101 2-1/4 HP Router.

What's in the Box

Upon unboxing your Makita RF1101 Router, verify that all components are present:

- Makita RF1101 Router Unit
- 1/4" Collet (Part No. 193214-9)
- 1/2" Collet (Part No. 763643-6)
- 2 x Wrenches (Part No. 193234-3)
- Instruction Guide (User Manual)



Figure 2: The Makita RF1101 Router with its included accessories, such as collets and wrenches.

Setup

Installing/Removing Router Bits

The Makita RF1101 accepts both 1/2" and 1/4" shank bits. To install or remove a bit, use the two identical size wrenches provided. The durable flat top design of the router provides stability when changing bits.

1. Ensure the router is unplugged from the power source.
2. Place the router on a stable, flat surface with the collet facing upwards.
3. Insert the appropriate collet (1/4" or 1/2") into the spindle.
4. Insert the router bit into the collet. Ensure the bit shank is fully seated but not bottomed out.
5. Use the two wrenches to tighten the collet nut securely. For removal, loosen the collet nut using the wrenches.



Figure 3: The motor can be easily removed from the base for convenient bit changes, utilizing the industrial cam-lock mechanism.

Attaching to Router Base

The router motor can be easily inserted into and removed from the base using the industrial cam-lock for fast and easy depth adjustment and motor removal.



Figure 4: The router base, designed to accept industry-standard template guides.

Operating Instructions

Powering On/Off

The router is equipped with a toggle switch for powering the unit on and off. Always ensure a firm grip and stable footing before activating the tool.



Figure 5: The toggle switch for controlling power to the router.

Variable Speed Control

The variable speed control dial allows the user to match the speed (8,000 - 24,000 RPM) to the specific application and material. The electronic speed control maintains constant speed even under load, ensuring smooth routing performance. The soft start feature provides smooth start-ups, reducing sudden jolts.



Figure 6: The variable speed control dial, allowing adjustment of RPM for different tasks.

Depth Adjustment

The large calibrated depth control ring facilitates easy and precise depth adjustment for your routing tasks. The industrial cam-lock also aids in quick depth adjustments.



Figure 7: The calibrated depth control ring for precise routing depth settings.

Using the Router

When operating the router, ensure the workpiece is securely clamped. Guide the router smoothly along the desired path. The sub-base accepts industry-standard template guides for enhanced convenience and accuracy.



Figure 8: Demonstrating the router in use on a wooden surface.

Maintenance

General Cleaning

Regularly clean the router to remove sawdust and debris. A durable flat top design aids in stability during cleaning and bit changes. Ensure the tool is unplugged before cleaning.

Carbon Brush Replacement

Periodically inspect the carbon brushes for wear. Worn brushes can affect motor performance. Replace them as needed to maintain optimal operation.



Figure 9: Illustration of a carbon brush and spring, components that may require periodic replacement.

Troubleshooting

This section provides solutions to common issues you might encounter with your Makita RF1101 Router.

Problem	Possible Cause	Solution
Router does not start.	No power supply; faulty switch; worn carbon brushes.	Check power connection; inspect switch; replace carbon brushes.
Motor loses power under load.	Overload; dull bit; worn carbon brushes.	Reduce cutting depth; replace bit; replace carbon brushes.
Excessive vibration.	Unbalanced bit; loose collet nut; damaged bearings.	Ensure bit is properly seated and balanced; tighten collet nut; contact service for bearing inspection.

Specifications

Key technical specifications for the Makita RF1101 2-1/4 HP Router:

Specification	Value
Collet Capacities	1/2" and 1/4"
No Load Speed	8,000 - 24,000 RPM
Amperage	11.0 Amps (115V)
Maximum Horsepower	2.25 HP
Overall Height	8-3/4"
Net Weight	7.9 lbs.
Cord Length	9 ft.
Power Source	AC (Corded Electric)
Bearings	Ball Bearing Construction
Handle Type	Ergonomic

Warranty and Support

The Makita RF1101 Router comes with a **1-Year Limited Warranty**. For warranty claims, technical support, or service inquiries, please refer to the official Makita support channels or visit their website.

An official User Manual (PDF) is available for download: Download User Manual (PDF)

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