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› Avhrit 21V Cordless Router Instruction Manual

Avhrit AX001

Avhrit 21V Cordless Router Instruction Manual

Model: AX001

1. PRODUCT OVERVIEW

The Avhrit 21V Cordless Router is a versatile and powerful tool designed for various woodworking applications, including trimming, grooving, and shaping. Its cordless design provides exceptional portability and convenience, eliminating the need for power outlets and tangled cords. Equipped with a robust brushless motor and variable speed control, this router delivers precise and efficient performance for both small projects and demanding tasks.



The Avhrit 21V Cordless Router, showcasing the main unit, two 4.0Ah batteries, a fast charger, and a comprehensive set of 15 router bits, along with essential accessories like the straight guide and wrenches.

EQUIPPED WITH **2PCS 21V** LARGE BATTERIES

Long-Lasting-4.0AH Battery-You can easily complete work

 **FAST CHARGER**



Two 21V 4.0Ah large capacity batteries are included, providing long-lasting power for extended work sessions. The fast charger ensures quick recharging, minimizing downtime.

VS

CORDLESS WOOD ROUTER CORDED WOOD ROUTER



Without the limitation of cables, easily complete the woodworking work you want

This cordless router offers superior freedom of movement compared to traditional corded models, allowing you to work without the limitations of power cables.



EASY TO INSTALL STRAIGHT GUIDE

To ensure stable straight processing on thicker models.



The router features a powerful brushless 300W motor with 6 variable speed settings, ranging from 10,000 to 33,000 RPM, suitable for various woodworking conditions.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury.

- **Work Area Safety:** Keep your work area clean and well-lit. 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:** Always wear eye protection (safety glasses or goggles) and hearing protection. Use a dust mask if operations create dust. Dress properly; avoid loose clothing or jewelry.
- **Tool Use and Care:** Do not force the power tool. Use the correct tool for your application. Disconnect the battery pack from the 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. PACKAGE CONTENTS

Verify that all items are present upon opening the package:

- 1 x Avhrit Cordless Router Unit
- 2 x 4.0Ah Lithium-Polymer Batteries
- 1 x Fast Charger
- 15 x 1/4" Shank Router Bits (Assorted types: Straight, V-groove, Dovetail, Rounding Over, Chamfer, etc.)
- 1 x Roller Guide Unit
- 1 x Straight Guide
- 1 x Wrench
- 1 x User Manual

4. SETUP

4.1 Battery Charging and Installation

1. Before first use, fully charge both 4.0Ah batteries using the provided fast charger. Insert the battery into the charger until it clicks into place. The charger indicator lights will show the charging status.
2. Once charged, slide the battery pack into the battery slot on top of the router until it locks securely. Ensure it is fully seated to prevent accidental disconnection during operation.

4.2 Router Bit Installation

6 VARIABLE SPEED

Built in Powerful Brushless 300W Motor



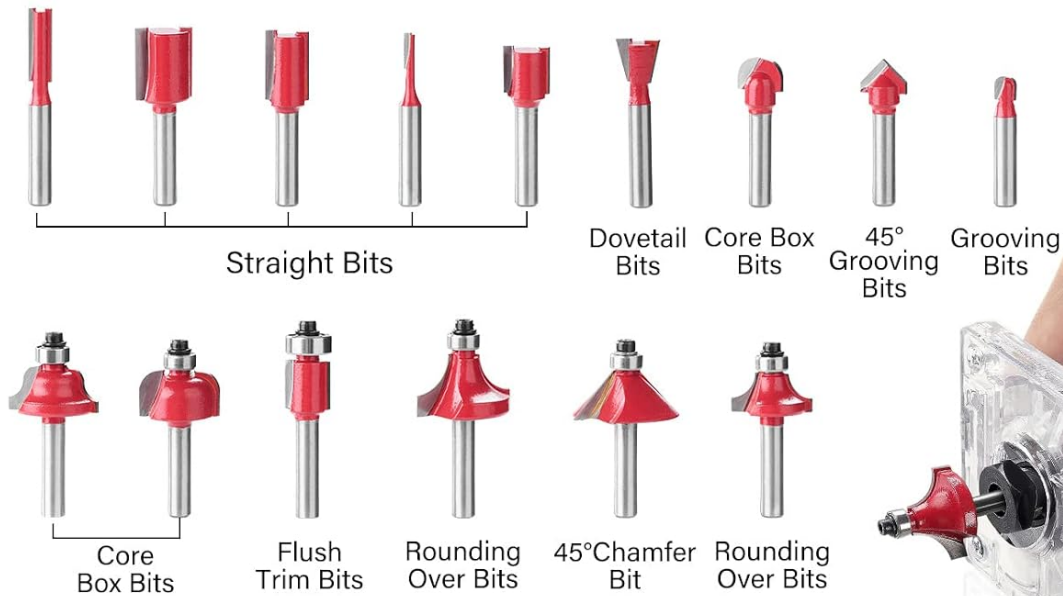
The included set of 15 router bits, featuring various profiles for different woodworking tasks.

1. Ensure the router is turned off and the battery is removed.
2. Use the provided wrench to loosen the collet nut.
3. Insert the desired 1/4" shank router bit into the collet, ensuring at least 3/4 of the shank is inserted for secure gripping.
4. Tighten the collet nut firmly with the wrench. **Important:** Ensure the bit is tightened sufficiently to prevent it from slipping during operation.

4.3 Base Installation and Depth Adjustment

15PCS 1/4"

SHANK ROUTER BITS



STAINLESS STEEL GEAR INSTALL

**Please make sure to Tighten the bit Tight enough*



① Use the wrench to unscrew the nut-



② Put in the bit



③ Use the wrench to screw the nut-

The quick release cam lock system allows for easy depth adjustment and effortless base removal or installation.

1. Attach the clear base to the router body.
2. Utilize the quick release cam lock system to adjust the routing depth. Loosen the lock, move the router body up or down to achieve the desired depth, and then firmly secure the lock.
3. For fine adjustments, use the micro-adjustment knob located on the side of the base.

4.4 Straight Guide Installation

QUICK RELEASE LOCK VS ROTARY KNOB LOCK

Quick release cam lock system for
easy depth adjustment and base removal/installation



Step-by-step guide for installing the straight guide to ensure stable and precise processing on thicker materials.

1. Assemble the straight guide components as shown in the diagram.
2. Slide the assembled straight guide into the designated slots on the router base.
3. Adjust the guide's position to achieve the desired offset from the router bit.
4. Tighten the locking screws to secure the straight guide in place.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Speed Control

- To turn on the router, press the ON/OFF switch.
- To turn off the router, press the ON/OFF switch again.
- Adjust the rotational speed using the 6-level variable speed dial located on the router body. Select a lower speed for larger bits or softer materials, and a higher speed for smaller bits or harder materials.

5.2 Basic Routing Techniques



Wood Trimming



Circle Slotting



DLY Pet House



Wood Drilling

The Avhrit router is suitable for various applications including wood trimming, circle slotting, DIY projects like pet houses, and wood drilling.

- **Edge Trimming:** For trimming edges, ensure the workpiece is securely clamped. Guide the router along the edge, maintaining steady pressure and a consistent feed rate.
- **Grooving:** Use the straight guide or a template for straight grooves. For curved grooves, freehand or use a specialized jig.
- **Shaping:** Select the appropriate profile bit for decorative edges or specific shapes. Practice on scrap material first.
- Always make multiple shallow passes rather than one deep pass, especially with harder materials, to reduce strain on the tool and improve cut quality.
- Maintain a firm grip on the router with both hands during operation.

6. MAINTENANCE

- **Cleaning:** After each use, disconnect the battery and clean the router body and base with a soft, dry cloth. Use a brush to remove dust and debris from the collet area. Do not use harsh chemicals or abrasive cleaners.
- **Bit Care:** Keep router bits clean and sharp. Dull bits can cause overheating and poor cut quality. Store bits in a

protective case to prevent damage.

- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods. Recharge them periodically if not in use.
- **General Inspection:** Regularly inspect the power cord (if applicable), switches, and housing for any damage. If any damage is found, have the tool serviced by a qualified technician.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Router does not start	Battery not charged or improperly installed.	Ensure battery is fully charged and securely inserted.
Router bit slips during operation	Collet nut not tightened sufficiently.	Ensure the collet nut is tightened firmly with the wrench. Insert bit at least 3/4 of the shank.
Poor cut quality / Burning wood	Dull bit, incorrect speed, or too deep a cut.	Replace or sharpen bit. Adjust speed. Make shallower passes.
Excessive vibration	Damaged or unbalanced bit, loose components.	Inspect bit for damage; replace if necessary. Check all components are securely fastened.
Battery drains quickly	Heavy load, old battery, or extreme temperatures.	Reduce load by making shallower passes. Consider replacing old batteries. Operate in moderate temperatures.

8. SPECIFICATIONS

Feature	Specification
Brand	Avhrit
Model Number	AX001
Voltage	21 Volts
Power Source	Battery Powered
Battery Type	Lithium-Polymer
Battery Capacity	4.0 Ah (2 included)
Motor Type	Brushless
No-Load Speed	10,000 - 33,000 RPM (6 variable speeds)
Collet Size	1/4 inch
Material	Acrylonitrile Butadiene Styrene (ABS)
Package Dimensions	36.5 x 26.3 x 10.6 cm
Item Weight	4.09 Kilograms

9. WARRANTY AND SUPPORT

Avhrit products are manufactured to high-quality standards. For information regarding warranty coverage, technical support, or spare parts availability, please refer to the contact information provided with your purchase documentation or visit the official Avhrit website. Keep your purchase receipt as proof of purchase for any warranty claims.

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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Email

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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