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› Avhrit Cordless Compact Router Instruction Manual

Avhrit AX002

Avhrit Cordless Compact Router Instruction Manual

Model: AX002

1. INTRODUCTION

Thank you for choosing the Avhrit Cordless Compact Router. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before use and retain it for future reference.

The Avhrit AX002 is a versatile 21V cordless compact router designed for various woodworking applications, offering portability and powerful performance with its brushless motor and variable speed control.

2. SAFETY INFORMATION

Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves, when operating the router. Ensure your work area is clean, well-lit, and free from obstructions. Disconnect the battery before making any adjustments or changing bits.

- Keep hands clear of the router bit during operation.
- Securely clamp workpieces to prevent movement.
- Do not operate the router in damp or wet conditions.
- Use only 1/4" shank router bits with this tool.
- Ensure the router bit is properly installed and tightened before use.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your Avhrit Cordless Compact Router:

- **Router Body:** Houses the brushless motor and battery connection.
- **Base:** Transparent base for visibility during routing.

- **Quick Release Lock:** For easy depth adjustment and base removal.
- **Speed Adjustment Dial:** Controls the rotational speed (1-6 settings).
- **Battery Pack:** 21V 4.0Ah Li-ion battery.
- **Fast Charger:** For recharging the battery packs.
- **Collet:** Secures the router bit.
- **Spindle Lock Button:** For locking the spindle during bit changes.
- **Straight Guide:** Accessory for guiding the router along a straight edge.
- **Router Bits:** Assortment of 15 pieces 1/4" shank bits.



Figure 3.1: Avhrit Cordless Compact Router with 2 batteries, charger, wrench, and 15 router bits.

4. SETUP

4.1 Charging the Battery

Before first use, fully charge both 21V 4.0Ah Li-ion batteries. Connect the fast charger to a power outlet and insert the battery pack. The indicator lights on the battery will show the charging status. A full charge typically takes a short period, indicated by the charger's lights.

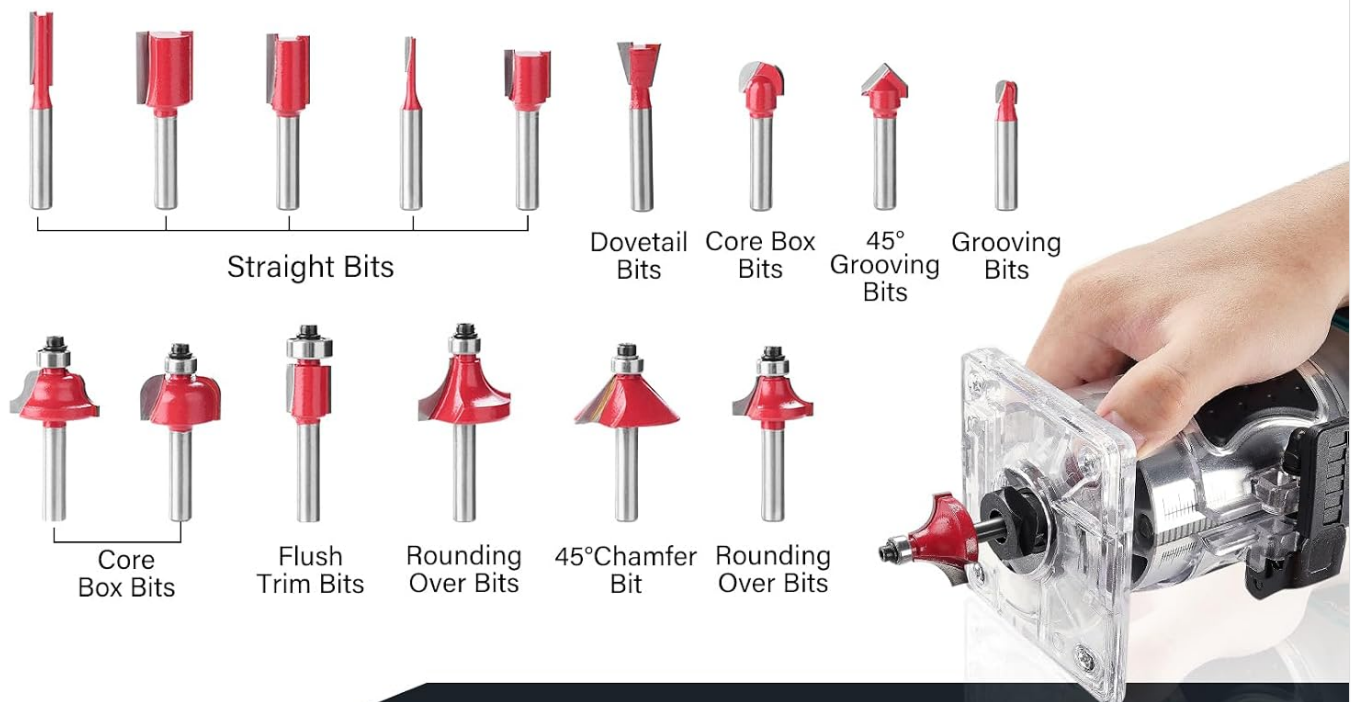


Figure 4.1: The 21V 4.0Ah battery being charged by the fast charger. The battery indicator lights show charging status.

4.2 Installing/Changing Router Bits

1. Ensure the battery is removed from the router for safety.
2. Press and hold the spindle lock button to prevent the collet from rotating.
3. Use the included wrench to loosen the collet nut by turning it counter-clockwise.
4. Insert the desired 1/4" shank router bit into the collet, ensuring it is fully seated.
5. While holding the spindle lock button, tighten the collet nut firmly with the wrench by turning it clockwise. Ensure the bit is securely fastened to prevent slippage during operation.

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-

Figure 4.2: Illustrated steps for securely installing a 1/4" shank router bit using the provided wrench.

4.3 Adjusting Cutting Depth

The router features a quick-release cam lock system for depth adjustment. Users should perform test cuts on scrap material to achieve the desired depth, as precise numerical measurements may not be available on the tool's adjustment mechanism.

1. Loosen the quick release cam lock lever.
2. Adjust the router body up or down to achieve the desired cutting depth.
3. Firmly secure the quick release cam lock lever to lock the depth.
4. Always perform a test cut on a scrap piece of material to verify the depth before routing your final workpiece.

5. OPERATING THE ROUTER

5.1 Powering On/Off and Speed Control

Insert a charged battery pack into the router. The router features a 6-speed variable speed control dial (10,000-33,000 RPM) to match the speed to the material and bit type. Turn the router ON/OFF using the designated power button. Adjust the speed dial as needed for your application.



Figure 5.1: The speed adjustment dial on the Avhrit router, allowing selection from 1 to 6 speed settings for various materials.

5.2 Using the Straight Guide

The included straight guide assists in making accurate straight cuts. Attach the straight guide to the router base as shown in the diagram. Ensure it is securely fastened and aligned with your desired cutting line. The guide helps maintain a consistent distance from the edge of your workpiece.



Figure 5.2: Step-by-step guide for installing the straight guide accessory for precise routing along edges.

5.3 Common Applications

The Avhrit Cordless Compact Router is suitable for a variety of woodworking tasks, including:

- **Wood Trimming:** For precise edge finishing.
- **Circle Slotting:** Creating circular grooves or cutouts.
- **Grooving:** Cutting channels into wood surfaces.
- **Chamfering:** Beveling edges for decorative or functional purposes.
- **DIY Projects:** Versatile for various creative and repair tasks.



Wood Trimming



Circle Slotting



DLY Pet House



Wood Drilling

Figure 5.3: Visual examples of the router's capabilities in wood trimming, circle slotting, and general DIY use.

6. MAINTENANCE

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

- **Cleaning:** After each use, disconnect the battery and clean the router, especially the collet area and base, from sawdust and debris. The transparent base can accumulate sawdust, affecting visibility.
- **Bit Care:** Keep router bits sharp and clean. Dull bits can cause burning and strain the motor.
- **Battery Storage:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the power cord (if applicable for charger), battery, and router for any signs of damage or wear.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Router does not start.	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Reduced power or performance.	Low battery charge; dull router bit; excessive pressure during routing.	Recharge battery; replace or sharpen bit; reduce routing pressure.
Router bit slipping.	Collet nut not tightened sufficiently.	Ensure collet nut is securely tightened with the wrench.
Excessive vibration.	Damaged or unbalanced bit; loose collet nut.	Inspect and replace bit if damaged; tighten collet nut.
Difficulty with depth adjustment.	Quick release lock mechanism stiff or worn.	Clean mechanism; apply a small amount of lubricant if needed. Note that the plastic adjustment mechanism may not offer precise measurements.

8. SPECIFICATIONS

Feature	Detail
Brand	Avhrit
Model Number	AX002
Power Source	Battery Powered
Voltage	21V (DC: 18-21V)
Battery Type	Li-ion 4.0Ah (2 included)
Motor Type	Brushless
Maximum Rotational Speed	33000 RPM
Variable Speed Settings	6-speed (10000-33000 RPM)
Collet Size	1/4" (6.35mm)
Included Bits	15 pieces 1/4" Router Bits Kits
Item Weight	2.5 Kilograms (approx. 5.5 pounds)
Material	Acrylonitrile Butadiene Styrene (ABS)

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the contact details provided on the product packaging or visit the official Avhrit website. Keep your purchase receipt as proof of purchase.

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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