

Avhrit AG037-01

Avhrit AG037-01 125mm Cordless Angle Grinder
User Manual

1. INTRODUCTION

Thank you for choosing the Avhrit AG037-01 125mm Cordless Angle Grinder. This powerful and versatile tool is designed for various cutting and grinding tasks. Featuring a brushless motor, 9500 RPM maximum speed, and a 21V 4000mAh battery, it offers efficient and reliable performance. This manual provides essential information for safe operation, maintenance, and troubleshooting to ensure optimal use of your angle grinder.

2. SAFETY INSTRUCTIONS

- Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Read all instructions carefully before operation.
- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses, gloves, and hearing protection. A dust mask is recommended for dusty operations.
 - **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 (e.g., pipes, radiators, ranges, refrigerators). Do not expose power tools to rain or wet conditions.
 - **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.
 - **Maintain Tools:** Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
 - **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Do not use battery packs with any other power tools.
 - **Dust-Proof Technology:** This angle grinder features magnets near the housing to prevent small iron filings from entering the motor and an air intake design to block larger metal chips, enhancing motor protection and tool longevity.



Image: The 4000mAh battery pack for the Avhrit angle grinder, shown connected to a charger.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x Avhrit Cordless Angle Grinder
- 1 x 21V 4000mAh Battery
- 1 x Fast Charger
- 1 x Wheel Guard
- 1 x Auxiliary Handle
- 1 x Wrench
- 6 x Cutting Discs
- 2 x Grinding Discs
- 1 x Flap Disc
- 1 x Pair of Safety Glasses
- 1 x Pair of Gloves
- 1 x Toolbox



Image: All components included in the Avhrit angle grinder kit, neatly arranged.

4. PRODUCT OVERVIEW

The Avhrit AG037-01 is a high-performance cordless angle grinder featuring a brushless motor for increased efficiency and durability. Its compact design and powerful 21V battery make it suitable for various applications.

Key Features:

- **Brushless Motor:** Provides up to 9500 RPM for high output power, longer tool life, and improved energy efficiency.
- **Dust-Proof Technology:** Integrated magnets and optimized air intake prevent metal debris from damaging the motor, ensuring extended tool lifespan.
- **High-Capacity Battery:** Equipped with a 21V 4000mAh lithium-ion battery for prolonged operation and consistent power.
- **Ergonomic Design:** Features a 2-position auxiliary handle and a protective cover for comfortable handling and enhanced control during use.

CORDLESS DESIGN



Brushless Motor



9500RPM



Lithium Batteries

Image: The Avhrit cordless angle grinder, emphasizing its brushless motor, 9500 RPM speed, and lithium battery power.

POWERFUL BRUSHLESS MOTOR

UP TO **9500RPM** SPEED



100%
Power



80%
Life Time



100%
Efficiency



80%
Energy Consumption

Image: An internal view diagram illustrating the powerful brushless motor, indicating 100% power, 80% longer life, 100% efficiency, and 80% less energy consumption.

5. SETUP

5.1 Battery Installation and Charging

1. Ensure the angle grinder is switched off before installing or removing the battery.
2. Align the battery pack with the battery slot on the tool handle.
3. Slide the battery pack into the handle until it clicks securely into place.
4. To charge, connect the fast charger to a power outlet and then to the battery pack. The indicator light on the charger will show the charging status.

5.2 Accessory Installation (Discs, Guard, Handle)

Always ensure the battery is removed before changing accessories.

1. **Install the Wheel Guard:** Position the wheel guard over the spindle housing. Adjust it to protect against sparks and

debris, then tighten the securing screw or lever.

2. **Install the Auxiliary Handle:** Screw the auxiliary handle into one of the two available positions on the grinder head for optimal control and comfort.

3. **Install the Disc:**

- **Step 1:** Ensure the inner flange is correctly seated on the arbor.
- **Step 2:** Place the desired cutting or grinding disc onto the inner flange, ensuring it is centered.
- **Step 3:** Place the outer flange over the disc. Press the spindle lock button and use the provided wrench to tighten the outer flange securely.



Image: The Avhrit angle grinder showing the adjustable protect cover and the two possible positions for the auxiliary handle.



Image: A visual guide demonstrating three steps for securely installing a cutting or grinding disc onto the angle grinder.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

1. To turn on the angle grinder, slide the safety switch forward and then press the power button.
2. To turn off, release the power button and slide the safety switch back to the OFF position.

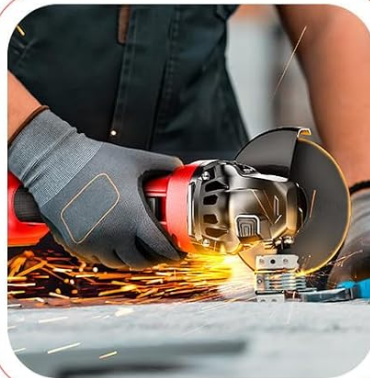
6.2 Usage Tips

- Always hold the tool firmly with both hands.
- Allow the disc to reach full speed before contacting the workpiece.
- Apply light, consistent pressure. Do not force the tool, as this can cause kickback or damage the disc/motor.
- For cutting, use a cutting disc and make shallow passes. For grinding, use a grinding disc and maintain a slight angle to the workpiece.
- Be aware of sparks and debris. Ensure your work area is clear and bystanders are at a safe distance.

USE SCENARIOS



Rebar Cutting



Metal Cutting



Metal Grinding

Image: Examples of the Avhrit angle grinder in action, demonstrating its use for cutting rebar, general metal cutting, and metal grinding.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your angle grinder.

- **Cleaning:** After each use, clean the tool with a soft, dry cloth. Remove any dust or debris from the ventilation openings. Do not use solvents or abrasive cleaners.
- **Disc Inspection:** Regularly inspect cutting and grinding discs for wear, cracks, or damage. Replace worn or damaged discs immediately.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight. Do not store fully discharged batteries for extended periods.
- **Storage:** Store the angle grinder and its accessories in the provided toolbox in a dry, secure location, out of reach of children.

8. TROUBLESHOOTING

If you encounter issues with your Avhrit angle grinder, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Tool does not start	Battery not charged or improperly installed; Safety switch not engaged	Charge battery fully and ensure it is securely installed; Engage safety switch and press power button
Reduced power or speed	Low battery charge; Overload; Worn disc	Recharge battery; Reduce pressure on workpiece; Replace disc
Excessive vibration	Damaged or improperly installed disc; Loose components	Inspect and correctly install or replace disc; Check for loose parts and tighten
Tool stops during operation	Overload protection activated; Low battery	Reduce load and allow tool to cool; Recharge battery

If the problem persists after attempting these solutions, please contact Avhrit customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	Avhrit
Model Number	AG037-01
Power Source	Battery Powered
Voltage	21 Volts
Maximum Rotation Speed	9500 Revolutions per minute
Disc Diameter	125mm (implied by product title)
Battery Capacity	4000mAh
Material Type(s)	ABS
Color	Scarlet

10. WARRANTY AND SUPPORT

Avhrit products are manufactured to high-quality standards. For warranty information, please refer to the documentation included with your purchase or contact Avhrit customer support directly. Our support team is available to assist with any questions or issues you may have regarding your product.

For assistance, please visit the official Avhrit website or contact our customer service department through the retailer where you purchased the product.

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