

Avhrit CAG034

Avhrit Cordless Angle Grinder 4-1/2" Instruction Manual

Model: CAG034 | Brand: Avhrit

1. INTRODUCTION

Thank you for choosing the Avhrit Cordless Angle Grinder 4-1/2". This powerful and versatile tool is designed for a wide range of applications including metal cutting, grinding, and rust removal. Featuring a 21V brushless motor, 9000 RPM maximum speed, and a convenient cordless design with two 4.0Ah batteries, it offers exceptional performance and portability. This manual provides essential information for safe operation, proper maintenance, and effective use of your new angle grinder.

2. IMPORTANT SAFETY INFORMATION

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings:

- **Work Area Safety:** Keep 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 goggles), hearing protection, and appropriate respiratory protection. Use gloves and sturdy footwear. Dress properly; do not wear loose clothing or jewelry.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or remove the battery pack 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.

Angle Grinder Specific Safety Warnings:

- **Guard Safety:** Never operate the angle grinder without the wheel guard properly installed and adjusted.
- **Kickback:** Be aware of kickback, which is a sudden reaction to a pinched or snagged rotating wheel. Always maintain a firm

grip on the tool and position your body to resist kickback forces.

- **Accessory Selection:** Only use accessories that are specifically designed for your angle grinder and rated for at least the maximum RPM of the tool.
- **Sparks:** Grinding and cutting operations produce sparks. Ensure no flammable materials are in the vicinity.
- **Workpiece Securement:** Always secure the workpiece firmly. Do not hold small workpieces by hand.

3. PACKAGE CONTENTS

Your Avhrit Cordless Angle Grinder package includes the following items:

- 1 x Cordless Angle Grinder
- 2 x 21V 4.0Ah Lithium-ion Batteries
- 1 x 2A Fast Charger
- 8 x Cutting Wheels
- 4 x Flap Discs
- 5 x Sanding Papers
- 2 x Wrenches
- 1 x Auxiliary Handle
- 1 x Pair of Gloves
- 1 x Goggle
- 1 x Tool Bag
- 1 x Wheel Guard



Image: Complete kit contents of the Avhrit Cordless Angle Grinder, including the grinder, two batteries, charger, various discs, wrenches, handle, gloves, goggles, and a tool bag.

4. PRODUCT FEATURES

- **Powerful Brushless Motor:** The 21V brushless motor delivers up to 9000 RPM, providing efficient and consistent power for demanding tasks. Brushless motors offer longer tool life, reduced noise, and improved battery efficiency compared to brushed motors.

Powerful Brushless Motor



pcs Battery



Work Light



Max



Cordless Dign

Image: An illustration highlighting the internal brushless motor of the angle grinder, emphasizing its high performance and efficiency.

- **Dual 21V 4.0Ah Batteries:** Equipped with two high-capacity lithium-ion batteries and a fast charger, ensuring extended operation time and quick recharging. The batteries feature charge and discharge protection for durability.

2 × 4.0Ah Li-Ion Battery



Image: Two 4.0Ah Li-ion batteries, one connected to a fast charger, demonstrating the charging process and battery power indicators.

- **Cordless Design:** Offers maximum portability and freedom of movement, making it suitable for both indoor and outdoor applications without the hassle of power cords.

Cordless Design



Brushless ★★★★★

Cordless ★★★★★

For Outdoor or Indoor ★★★★★

More Efficient ★★★★★



Brushed ★

Corded ★

Only for Indoor ★

Low Performance ★

Image: A visual comparison illustrating the advantages of a cordless angle grinder (brushless, portable, efficient) over a traditional corded brushed model.

- **LED Display with 3-Speed Adjustment:** Features a clear LED screen displaying current RPM, temperature, and battery level. The speed is adjustable from 0-9000 RPM, allowing precise control for different materials and tasks.

Screen Display- 3 Speed



Image: A close-up of the angle grinder's LED display showing 9000 RPM, 22A current, and 22°C temperature, with an arrow indicating adjustable speed.

- **Spindle Lock:** Facilitates quick and easy disc changes, improving efficiency and reducing downtime.
- **2-Position Auxiliary Handle:** The rubberized anti-slip handle can be attached in two positions, providing enhanced control, comfort, and versatility for various applications.
- **Built-in LED Work Light:** Illuminates the work area, improving visibility and precision, especially in dimly lit conditions.

Built-in LED Light



Image: The angle grinder in operation, with its built-in LED light clearly illuminating the sparks generated during metalwork.

5. SETUP

5.1 Charging the Batteries

1. Connect the fast charger to a standard power outlet.
2. Slide the 21V battery pack onto the charger until it clicks into place.
3. The charger's indicator light will show the charging status. A full charge typically takes approximately 1-2 hours per battery.
4. Once fully charged, remove the battery from the charger.

5.2 Attaching the Auxiliary Handle

The auxiliary handle can be screwed into either of the two threaded holes on the grinder's gear housing, depending on your preferred grip and application. Ensure it is tightened securely before operation.

5.3 Installing the Wheel Guard

The wheel guard is crucial for safety. Loosen the guard clamping screw, position the guard to cover the top portion of the disc and direct sparks away from you, then tighten the screw firmly.

5.4 Changing/Installing Discs

1. Ensure the battery is removed from the grinder.
2. Press and hold the spindle lock button located on the gear housing.
3. Using the provided wrench, loosen the outer flange nut by turning it counter-clockwise.
4. Remove the outer flange nut and the old disc.
5. Place the new disc (cutting wheel, flap disc, or sanding paper) onto the inner flange, ensuring it is centered.
6. Replace the outer flange nut and tighten it clockwise with the wrench while holding the spindle lock button. Do not overtighten.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

To turn the grinder ON, slide the safety switch forward and then press the main power switch. To turn OFF, release the main power switch.

6.2 Adjusting Speed

The grinder features an adjustable 3-speed setting. Use the speed adjustment button (usually indicated by an arrow or mode icon) to cycle through the available speed settings. The current RPM will be displayed on the LED screen.

6.3 Applications

Always wear appropriate personal protective equipment (PPE) including safety goggles, gloves, and hearing protection during operation.

- **Metal Cutting:** Use a cutting wheel. Position the workpiece securely. Allow the disc to reach full speed before making contact. Apply steady, light pressure, letting the tool do the work. Avoid twisting or binding the disc.

Rebar Cutting



Metal Grinding



Metal Cutting



Image: Three distinct applications of the angle grinder: cutting rebar, grinding a metal surface, and cutting a metal pipe, demonstrating its versatility.

- **Grinding:** Use a grinding wheel or flap disc. Hold the grinder at a slight angle (typically 15-30 degrees) to the workpiece. Move the grinder smoothly across the surface to achieve an even finish.
- **Rust Removal/Sanding:** Use a wire brush attachment or sanding paper disc. Apply light, even pressure and move the tool consistently over the rusted or uneven surface.

6.4 Proper Grip and Technique

Always hold the grinder firmly with both hands, using the main handle and the auxiliary handle. Maintain a balanced stance. Do not overreach. Ensure the workpiece is stable and cannot shift during operation.

7. MAINTENANCE

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

- **Cleaning:** After each use, clean the tool with a dry cloth to remove dust and debris. Do not use water or chemical cleaners.

Keep ventilation openings clear.

- **Battery Care and Storage:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully discharged batteries for extended periods. Recharge them periodically if not in use.
- **Disc Inspection and Replacement:** Regularly inspect discs for cracks, chips, or excessive wear. Replace damaged or worn discs immediately. Never use a disc that is not rated for the grinder's maximum RPM.
- **General Inspection:** Check all screws and fasteners periodically to ensure they are tight. Inspect the power switch and auxiliary handle for any damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start	Battery not inserted correctly Battery discharged Power switch not fully engaged	Ensure battery is fully seated Charge battery fully Ensure safety switch is pushed forward and main switch is pressed
Low power or stops under load	Battery low Overload Worn or incorrect disc	Recharge battery Reduce pressure on workpiece Replace disc; ensure correct type for material
Battery not charging	Charger not plugged in Faulty battery or charger Battery too hot/cold	Check power connection Contact customer support Allow battery to reach room temperature before charging
Excessive vibration or noise	Disc improperly installed Damaged or unbalanced disc Loose components	Reinstall disc correctly Replace disc Check and tighten all screws and fasteners

9. SPECIFICATIONS

Specification	Value
Brand	Avhrit
Model Number	CAG034
Voltage	21 Volts
Wattage	800 watts
Maximum Rotational Speed	9000 RPM
Disc Diameter	4-1/2 inches
Arbor Size	7/8 inches

Specification	Value
Power Source	Battery Powered
Battery Type	Lithium Polymer
Battery Capacity	2 x 4.0Ah
Item Weight	10.21 pounds (4.64 Kilograms)
Material	Metal
Color	Blue

10. WARRANTY AND SUPPORT

Avhrit is committed to providing high-quality products and customer satisfaction. While specific warranty details are not provided in this manual, we encourage you to contact our customer support team for any questions, concerns, or assistance you may need regarding your Cordless Angle Grinder.

Our team is dedicated to providing prompt support and will reply within 24 hours to help resolve any issues you may encounter. For support, please refer to the contact information provided on the product packaging or the official Avhrit website.

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.

Name

Anonymous

Email

you@example.com

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