

Avhrit CP3B0034US

Avhrit Cordless Angle Grinder User Manual

Model: CP3B0034US

Brand: Avhrit

1. INTRODUCTION

Thank you for choosing the Avhrit Cordless Angle Grinder. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before use and keep it for future reference. This cordless angle grinder is designed for various applications including cutting and grinding metal, rebar, and plastic, offering convenience and portability without the need for extension cords.

2. IMPORTANT SAFETY INFORMATION

WARNING: Read 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.

- **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 such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection (safety glasses or goggles) and hearing protection. Use a dust mask if operations create dust. Wear heavy-duty gloves. Do not overreach. Keep proper footing and balance at all times.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Do not use the power tool if the switch does not turn it on and off. Disconnect the battery pack from the power 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. When battery pack is not in use, keep it away from other metal objects.
- **Kickback and Related Warnings:** Kickback is a sudden reaction to a pinched or snagged rotating wheel. Always maintain a firm grip on the tool and position your body and arm to allow you to resist kickback forces.

3. PACKAGE CONTENTS

Upon opening the package, ensure all items listed below are present and in good condition. If any items are missing or damaged, please contact customer support.

- Avhrit Cordless Angle Grinder
- Auxiliary Handle (2-position)
- Grinding Discs (various types, e.g., flap discs, cutting discs)
- 21V Lithium-Ion Batteries (2 included)
- Fast Charger
- Spanner Wrenches (for disc changes)
- Safety Glasses
- Work Gloves
- Tool Bag



Figure 3.1: Complete package contents of the Avhrit Cordless Angle Grinder kit, including the grinder, two batteries, charger, auxiliary handle, various discs, safety glasses, gloves, and spanner wrenches.

4. PRODUCT OVERVIEW

The Avhrit Cordless Angle Grinder is designed for efficiency and user comfort. Familiarize yourself with its main components and features:

- **Cordless Design:** Provides maximum portability and flexibility for working in various locations without power outlets.
- **Brushless Motor:** Delivers powerful performance up to 9000 RPM, ensuring faster and easier job completion with a longer service life.
- **2-Position Auxiliary Handle:** The anti-slip rubber auxiliary handle can be attached to either side of the grinder, offering enhanced control, comfort, and versatility for different applications.
- **Universal Size:** This 11.4 cm (4.5 inch) grinding tool features a 2.2 cm (0.87 inch) arbor with ultra-thin 0.1 cm (0.04 inch) wheels.
- **Spindle Lock:** Facilitates quicker and easier disc changes.
- **Function Panel:** Includes a speed switch button, LED light switch button, and a display screen (SPD/Auto) for monitoring settings.
- **Lock-On Switch:** A middle switch design convenient for both left and right-handed users.

- **Heat Dissipation Design:** Integrated design for efficient heat management during operation.



Figure 4.1: Detailed view of the 21V 4-1/2" Cordless Angle Grinder's function panel, highlighting the speed switch, LED light switch, display screen, and LED work light.



Figure 4.2: Illustration of the powerful brushless motor and its high-speed capabilities (up to 9000 RPM) for efficient and durable performance.

SAFE & CONVENIENT DESIGN



LOCK-ON SWITCH

Middle Switch-
Convenient for both hands



HEAT DISSIPATION

Adjustable Rubber Handle
& Heat Dissipation Design

Figure 4.3: Close-up of the grinder's safe and convenient design, featuring the middle lock-on switch and the integrated heat dissipation system for comfortable and prolonged use.

5. SETUP

Before operating the angle grinder, follow these steps for proper assembly and preparation:

1. Charge the Battery:

Insert the 21V Lithium-Ion battery into the fast charger. The charger indicator lights will show the charging status. Ensure the battery is fully charged before first use. A full charge typically takes several hours. The kit includes two batteries, allowing you to continue working while one charges.

4000MAH BATTERIES

- ✓ 21V Lithium-Ion Battery
- ✓ Long-Lasting-4.0Ah



21V Max Rechargeable Battery with a Fast Charger

Figure 5.1: A 4000mAh 21V Lithium-Ion battery, designed for long-lasting power and quick recharging with the included fast charger.

2. Attach the Auxiliary Handle:

Screw the auxiliary handle into one of the two threaded holes on the grinder's gear housing. Choose the position that provides the best control and comfort for your specific task.

3. Install the Wheel Guard:

Position the wheel guard over the spindle housing. Ensure it is securely fastened and adjusted to protect you from sparks and debris during operation. The guard should be positioned to deflect debris away from your body.

4. Mount the Grinding/Cutting Disc:

Press and hold the spindle lock button. Place the inner flange onto the spindle, then place the desired grinding or cutting disc onto the inner flange. Secure the disc with the outer flange and tighten it using the provided spanner wrench. Ensure the disc is centered and firmly secured before releasing the spindle lock.

5. Insert the Battery:

Slide the charged battery pack into the battery slot on the grinder until it clicks into place. Ensure it is fully seated.

6. OPERATING INSTRUCTIONS

Follow these instructions for safe and effective operation of your Avhrit Cordless Angle Grinder:

1. Powering On/Off:

To turn the grinder ON, slide the lock-on switch forward. To turn it OFF, slide the switch backward to the OFF position. The middle switch design is convenient for both hands.

2. Adjusting Speed:

Use the speed switch button on the function panel to cycle through available speed settings or select "Auto" mode. The display screen will show the current speed (SPD) or "Auto" setting. The "Auto" mode adjusts the speed based on the load, optimizing performance and battery life.

3. Starting Operation:

Before making contact with the workpiece, allow the disc to reach full operating speed. Apply light, consistent pressure. Do not force the tool; let the disc do the work. Maintain a firm grip with both hands on the main handle and the auxiliary handle.



Figure 6.1: Demonstrating the cordless design in use, allowing for convenient and unrestricted work without the need for extension cords.

MULTI-SCENE APPLICATION

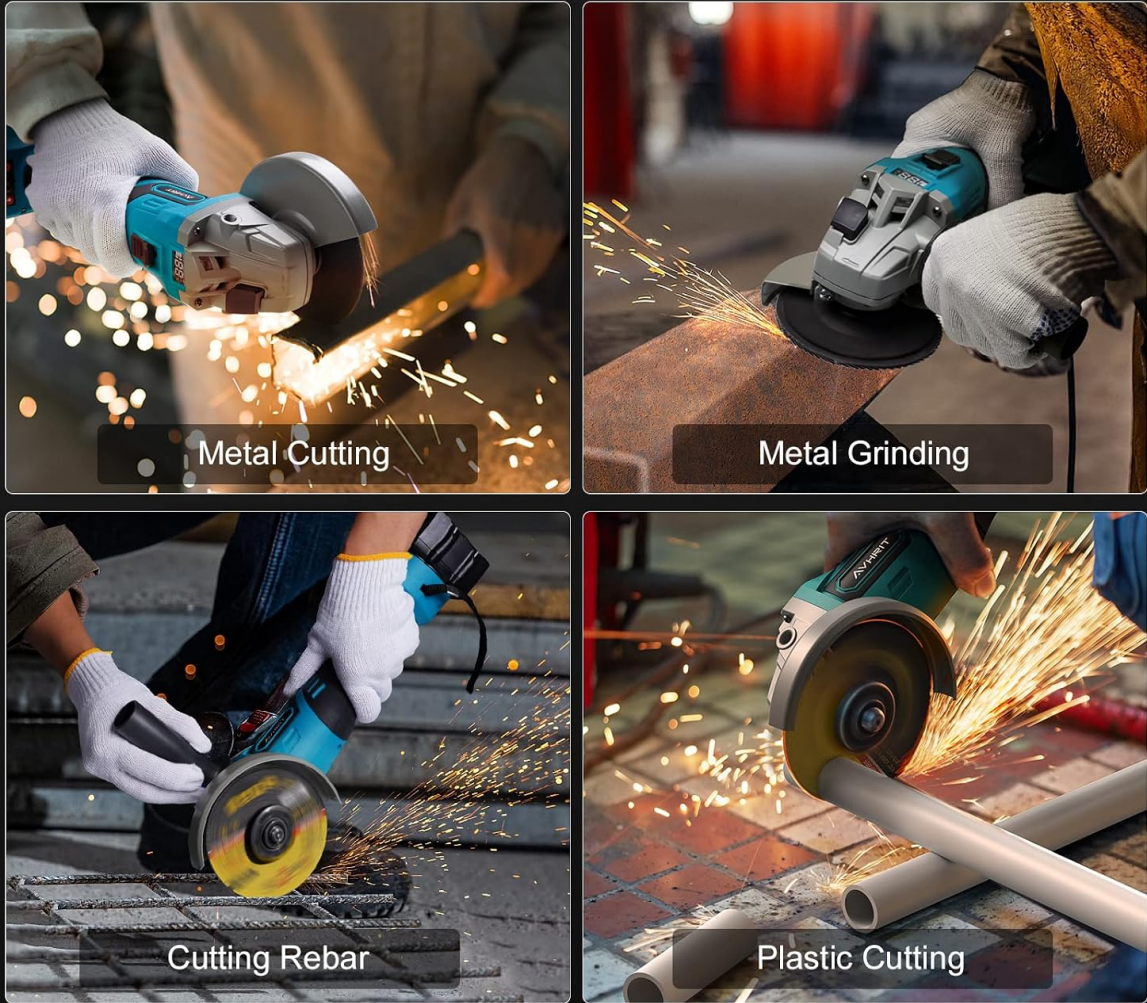


Figure 6.2: A user interacting with the function panel of the 21V 4-1/2" Cordless Angle Grinder, showing the ease of access to controls during operation.

4. Applications:

The Avhrit Cordless Angle Grinder is suitable for a variety of tasks:

- **Metal Cutting:** Use appropriate cutting discs for clean cuts on various metal types.
- **Metal Grinding:** Use grinding discs for smoothing welds, removing rust, or shaping metal.
- **Cutting Rebar:** Ideal for cutting reinforcing steel bars on construction sites.
- **Plastic Cutting:** Can be used for cutting certain types of plastic materials with suitable discs.

COMPACT AND LIGHTWEIGHT DESIGN



Figure 6.3: Examples of multi-scene applications for the Avhrit Cordless Angle Grinder, demonstrating its versatility in metal cutting, metal grinding, rebar cutting, and plastic cutting tasks.

5. Finishing Operation:

Once the task is complete, turn off the grinder and allow the disc to come to a complete stop before setting the tool down. Disconnect the battery pack when not in use or before performing any adjustments or maintenance.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your angle grinder:

- **Cleaning:**

After each use, clean the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Regularly clear dust and debris from the ventilation openings to prevent overheating.

- **Disc Replacement:**

Always replace worn or damaged discs immediately. Ensure the replacement disc is compatible with the grinder's specifications (11.4 cm diameter, 2.2 cm arbor). Follow the disc mounting instructions in the Setup section.

- **Battery Care:**

Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store

fully discharged batteries for extended periods. Recharge batteries regularly, even if not in use, to maintain their lifespan.

- Inspection:**
Periodically inspect the power cord of the charger for damage. Check the auxiliary handle and guard for secure attachment. Ensure all screws are tight.

8. TROUBLESHOOTING

If you encounter issues with your Avhrit Cordless Angle Grinder, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Grinder does not turn on.	Battery not charged or not properly inserted. Switch is not fully engaged. Tool protection activated (overload).	Ensure battery is fully charged and securely inserted. Fully engage the lock-on switch. Remove the battery, wait a few minutes, then reinsert and try again. Reduce load.
Battery not charging.	Charger not plugged in. Battery or charger is faulty. Battery too hot/cold.	Check power connection to charger. Try another battery (if available) or contact customer support. Allow battery to reach room temperature before charging.
Reduced power or performance.	Battery low. Worn or incorrect disc. Overloading the tool.	Recharge battery. Replace disc with a new, appropriate one. Reduce pressure on the tool; let the tool work at its own pace.
Excessive vibration or noise.	Disc improperly installed or damaged. Loose components.	Check disc installation; ensure it's centered and tightened. Replace damaged disc. Check auxiliary handle and guard for secure attachment.

9. SPECIFICATIONS

Feature	Detail
Manufacturer	Avhrit
Product Dimensions (L x W x H)	30.48 x 17.78 x 7.62 cm (12 x 7 x 3 inches)
Weight	4.58 kilograms (10.1 lbs)
Battery Type	Lithium-Polymer (1 included, 2 in kit)
Voltage	21 Volts
Power Source	Battery Powered
Material	Metal

Feature	Detail
Style	Angled
Model Number	CP3B0034US
Disc Size	11.4 cm (4.5 inches)
Arbor Size	2.2 cm (0.87 inches)
Max Speed	Up to 9000 RPM



Figure 9.1: Illustration of the compact and lightweight design of the Avhrit Cordless Angle Grinder, showing its dimensions (32cm/12.59in length, 8cm/3.1in width) and overall portability.

10. WARRANTY AND SUPPORT

Information regarding specific warranty terms and conditions for the Avhrit Cordless Angle Grinder is not available in the provided product data. For warranty claims, technical support, or replacement parts, please contact the manufacturer directly using the contact information provided with your purchase or visit the official Avhrit website.

Please retain your proof of purchase for any warranty-related inquiries.