

Avhrit AG039-FT

Avhrit Cordless Angle Grinder AG039-FT User Manual

Model: AG039-FT



1. IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions when using this power tool to reduce the risk of fire, electric shock, and serious personal injury. Read all instructions before operating this product.

- **Wear Personal Protective Equipment:** Always wear safety glasses, hearing protection, and gloves. A dust mask is recommended for dusty operations.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during operation.
- **Maintain a Firm Grip:** Hold the angle grinder firmly with both hands during operation.
- **Keep Work Area Clean:** Cluttered areas and benches invite injuries.
- **Avoid Accidental Starting:** Ensure the switch is in the off position before inserting the battery pack.
- **Use Correct Accessories:** Only use accessories specifically designed for this angle grinder and rated for its maximum RPM.
- **Inspect Tool and Accessories:** Before each use, check for damaged parts, proper alignment, and any other condition that may affect its operation.
- **Battery Safety:** Use only the specified charger for the battery pack. Do not expose battery packs to water or extreme temperatures.
- **Dual Safety Lock System:** This tool features a dual-switch system to prevent accidental starts. Familiarize yourself with its operation before use.

2. PRODUCT OVERVIEW AND COMPONENTS

The Avhrit Cordless Angle Grinder AG039-FT is a versatile tool designed for cutting, grinding, and polishing various materials. It features a brushless motor, 3-speed adjustment, and an LED display for optimal performance.



Figure 2.1: Avhrit Cordless Angle Grinder and included accessories.

2.1 Included Components

Your Avhrit Cordless Angle Grinder kit includes the following items:



Figure 2.2: Visual representation of the kit contents.

- 1x Cordless Angle Grinder
- 2x 4.0Ah Li-ion Batteries
- 1x Battery Charger
- 1x Shock Absorbing Handle
- 1x Wrench
- 5x Cutting Wheels
- 2x Flap Wheels
- 1x Carrying Bag

3. SETUP

3.1 Battery Installation and Charging

The angle grinder is powered by 21V 4.0Ah Li-ion batteries. Ensure batteries are fully charged before first use.



Figure 3.1: The angle grinder operates with two 4000mAh batteries for extended use.

1. **Charging:** Connect the charger to a power outlet and insert the battery pack. The charger indicator will show charging status. Disconnect once fully charged.
2. **Installation:** Align the battery pack with the battery slot on the grinder handle and slide it in until it clicks securely into place.
3. **Removal:** Press the battery release button and slide the battery pack out.

3.2 Handle Attachment

Attach the shock-absorbing handle to the side of the grinder for improved control and comfort. The handle can be mounted on either the left or right side, depending on user preference.

1. Screw the handle clockwise into one of the threaded holes on the gear housing until it is firmly secured.

3.3 Wheel Installation

Proper installation of cutting or grinding wheels is essential for safety and performance.

1. Ensure the battery is removed from the grinder.
2. Press the spindle lock button to prevent the spindle from rotating.
3. Place the inner flange onto the spindle.
4. Position the desired cutting or grinding wheel onto the inner flange, ensuring it is centered.
5. Thread the outer flange onto the spindle and tighten it securely using the provided wrench. Release the spindle lock.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off and Safety Lock

The Avhrit angle grinder features a dual safety lock system to prevent unintentional starts.

1. **To Start:** First, press the safety lock button, then slide the main power switch forward.
2. **Continuous Operation:** The slide-lock switch allows for continuous operation without holding the trigger.
3. **To Stop:** Slide the main power switch backward to the 'OFF' position.

4.2 Speed Adjustment

The grinder offers three intelligent speed settings for various applications.



Figure 4.1: Speed settings for different applications.

- **Low Speed (5500 RPM):** Ideal for polishing tasks.
- **Medium Speed (7500 RPM):** Suitable for general grinding and rust removal.
- **High Speed (8300 RPM):** Recommended for cutting applications.

Adjust the speed using the dedicated speed control button on the tool. The Smart LED display will show the current RPM.

4.3 Smart LED Display

The integrated LED display provides real-time information about the tool's status.

Know Your Power - **Smart Display** for Confident Work



Figure 4.2: Smart LED display for monitoring tool performance.

- **RPM Tracking:** Displays the current rotational speed.
- **Battery Level:** Indicates the remaining battery charge.
- **Current:** Shows the power draw.
- **Overload & Temperature Alerts:** The system automatically matches speed to material requirements and provides alerts for overload or high temperature.

4.4 Built-in LED Light

The grinder includes a built-in LED light to illuminate the work area, improving visibility in dimly lit conditions.



Figure 4.3: Built-in LED light enhances visibility during operation.

4.5 Applications: Cutting and Grinding

This 4-1/2 inch cordless angle grinder is designed for both precision cutting and efficient grinding.



Figure 4.4: Versatile applications including grinding, rust removal, and cutting.

- **Cutting:** Use cutting wheels for materials like metal, pipes, and rebar. Ensure the workpiece is stable and apply steady, even pressure.
- **Grinding & Rust Removal:** Use flap wheels for grinding surfaces, removing rust, and deburring. Maintain a slight angle between the wheel and the workpiece for effective material removal.

5. MAINTENANCE

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

- **Cleaning:** Regularly clean the tool's ventilation openings to prevent overheating. Use a soft brush or compressed air.
- **Disc Inspection:** Before each use, inspect cutting and grinding discs for cracks, chips, or excessive wear. Replace damaged discs immediately.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully discharged batteries for extended periods.
- **Brushless Motor:** The brushless motor requires no carbon brush replacement, contributing to a longer

lifespan and reduced maintenance.

6. TROUBLESHOOTING

If you encounter issues with your Avhrit Cordless Angle Grinder, refer to the following common troubleshooting steps:

- **Tool Not Starting:**
 - Ensure the battery is fully charged and properly inserted.
 - Verify the safety lock and power switch are engaged correctly.
- **Reduced Power/Performance:**
 - Check battery charge level.
 - Ensure the correct speed setting is selected for the task.
 - Inspect the cutting/grinding wheel for wear or damage.
- **Overheating:**
 - Allow the tool to cool down.
 - Clear any obstructions from the ventilation openings.
 - Avoid continuous heavy-duty use without breaks.

If problems persist, please contact Avhrit customer support for assistance.

7. SPECIFICATIONS

Technical specifications for the Avhrit Cordless Angle Grinder AG039-FT:

Feature	Specification
Brand	Avhrit
Model Number	AG039-FT
Power Source	Battery Powered
Voltage	21 Volts
Wattage	800 watts
Maximum Rotational Speed	8300 RPM
Battery Capacity	2x 4000mAh (4.0Ah) Li-ion
Item Weight	8.91 pounds
Material	Acrylonitrile Butadiene Styrene, Aluminum
Item Package Quantity	1

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Avhrit Cordless Angle Grinder AG039-FT, please refer to the official Avhrit website or contact their customer service department.

You can visit the [Avhrit Store on Amazon](#) for more product information and contact options.

