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› AOBEN 21V Cordless Angle Grinder AT102D-115 User Manual

AOBEN AT102D-115

AOBEN 21V Cordless Angle Grinder AT102D-115 User Manual

Model: AT102D-115

INTRODUCTION

This manual provides essential instructions for the safe operation, maintenance, and troubleshooting of your AOBEN 21V Cordless Angle Grinder AT102D-115. Please read this manual thoroughly before using the tool to ensure safe and effective operation. Keep this manual for future reference.

GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools.

Work Area Safety

- Keep the 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- 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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal Safety

- Always wear eye protection. Use safety glasses, goggles, or a face shield.
- Wear appropriate personal protective equipment (PPE) such as dust masks, non-skid safety shoes, hard hats, or hearing protection for relevant tasks.
- Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.

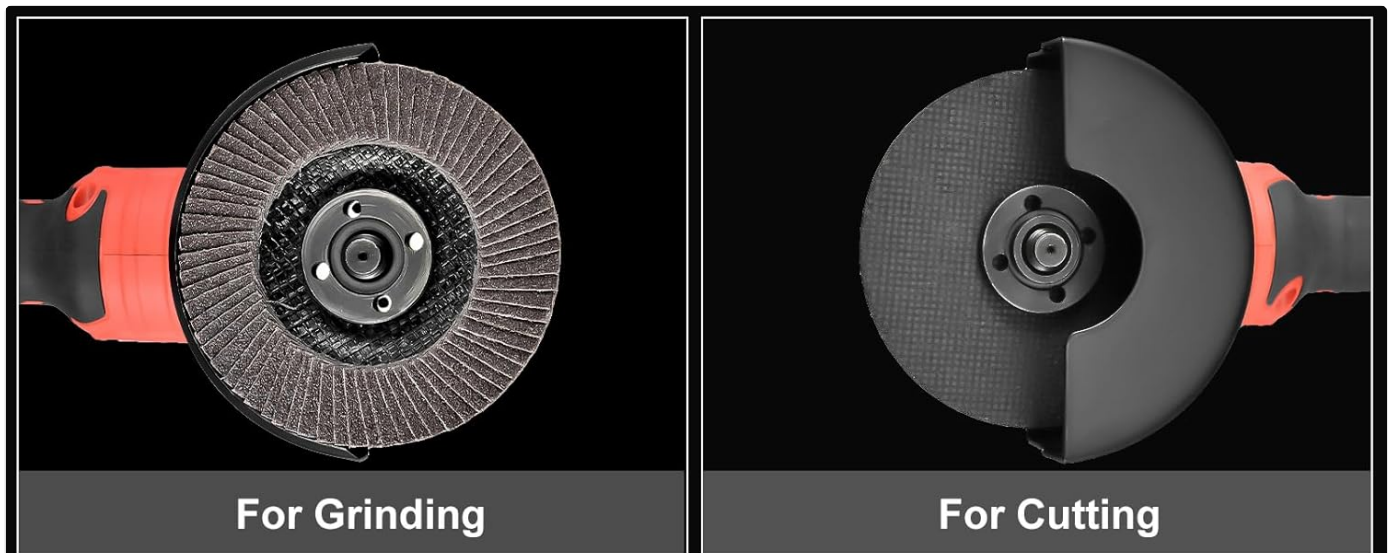
Power Tool Use and Care

- 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.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.

PACKAGE CONTENTS

Carefully unpack the contents and ensure all items are present and undamaged. If any parts are missing or damaged, contact your retailer.

- AOBEN 21V Cordless Angle Grinder Unit
- 2 x 4.0Ah Lithium-Ion Batteries
- Fast Charger
- Grinding Wheel (2 pieces)
- Metal Cutting Wheel (2 pieces)
- Steel Grinding Wheel (2 pieces)
- Wrench (1 piece)
- Auxiliary Handle (1 piece)
- Wheel Guard for Cutting (1 piece)
- Wheel Guard for Grinding (1 piece)
- Tool Box



2 PROTECTIVE WHEEL GUARDS



Image: The complete AOBEN Cordless Angle Grinder kit, including the grinder, two 4.0Ah batteries, charger, various wheels, wrench, auxiliary handle, two wheel guards, and a tool box.

SPECIFICATIONS

Feature	Specification
Manufacturer	AOBEN
Model Number	AT102D-115
Power Source	Cordless
Battery Type	Lithium Ion (2x 4.0Ah, 21V)
Maximum Rotational Speed	9500 RPM
Item Weight	4.77 kg
Parcel Dimensions	42.9 x 31.2 x 13.4 cm
Motor Type	Brushless

SETUP

1. Charging the Battery

Before first use, fully charge both 4.0Ah Lithium-Ion batteries using the provided fast charger. Insert the battery into the charger, ensuring it clicks into place. The charger indicator lights will show the charging status. Remove the battery once fully charged.

2 X 4.0 AH LARGE CAPACITY BATTERIES

Long Run Time

Fast Charge



Image: Two 4.0Ah large capacity batteries, designed for long run time and fast charging.

2. Installing the Auxiliary Handle

The auxiliary handle can be screwed into one of the three threaded holes on the grinder head, depending on your preferred working position and hand dominance. Ensure it is tightened securely before operation.

3. Attaching the Wheel Guard

Select the appropriate wheel guard for your task (cutting or grinding). Align the guard with the grinder head and secure it firmly. The guard protects against sparks and debris. Always ensure the guard is properly positioned and tightened.



Image: The angle grinder shown with two different protective wheel guards, one for grinding and one for cutting, highlighting their distinct designs.

4. Installing the Grinding/Cutting Wheel

Follow these steps to safely install or change the grinding or cutting wheel:

1. **Step 1:** Adjust the tightness of the wheel guard with the provided wrench.
2. **Step 2:** Press the spindle lock button and remove the inner presser flange.
3. **Step 3:** Place the desired 4-1/2 inch universal wheel onto the spindle, ensuring it sits flush.
4. **Step 4:** Install the outer presser flange.
5. **Step 5:** Tighten the outer presser flange securely with the wrench while holding the spindle lock.

VERSATILE APPLICATION



Image: A five-step visual guide demonstrating the process of installing a grinding wheel onto the angle grinder, from adjusting the guard to tightening the presser.

UNIVERSAL SIZE



Image: An exploded view diagram illustrating the universal size components of the angle grinder, including the 5/8"-11 spindle, 7/8-inch arbor, and 4-1/2" universal wheels.

OPERATING INSTRUCTIONS

1. Powering On/Off

Ensure the battery is fully charged and securely inserted into the tool. To start the grinder, press the power switch. To stop, release the switch. Some models may feature a lock-on button for continuous operation; press it to engage and press the switch again to disengage.

2. Variable Speed Control

This angle grinder features a variable speed dial, allowing you to adjust the rotational speed (RPM) for different applications. Lower speeds are suitable for delicate tasks like rust removal, while higher speeds are for aggressive cutting or grinding. Adjust the dial to the desired speed before starting the tool.



Image: A close-up view of the angle grinder's power and battery indicator display, which allows intuitive control of speed and shows remaining battery life.

3. General Operation Guidelines

- Always hold the grinder firmly with both hands, using the auxiliary handle for better control.
- Allow the wheel to reach full operating speed before contacting the workpiece.
- Apply light, consistent pressure. Do not force the tool, as this can lead to kickback or damage.
- Maintain a stable stance and keep your body clear of the rotating wheel and potential kickback paths.
- For cutting, use a cutting wheel and make shallow passes, gradually deepening the cut.
- For grinding, use a grinding wheel and move the tool smoothly across the surface, maintaining a slight angle.
- Be aware of sparks and debris. Ensure no flammable materials are in the vicinity.

EFFICIENT BRUSHLESS MOTOR

Offers more power & longer life time



Image: A person wearing gloves operating the AOBEN cordless angle grinder to cut a metal piece, with sparks flying, demonstrating its efficient brushless motor.

VERSATILE APPLICATION



Image: A collage showcasing the versatile applications of the angle grinder, demonstrating its use for cutting and grinding on different materials and in various orientations.

MAINTENANCE

1. Cleaning

Regularly clean the tool's ventilation openings to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaners.

2. Battery Care

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Recharge them periodically.
- Avoid dropping or physically damaging the battery packs.

3. Wheel Inspection and Replacement

Before each use, inspect the grinding/cutting wheel for cracks, chips, or excessive wear. A damaged wheel can shatter and cause serious injury. Replace worn or damaged wheels immediately following the installation steps outlined in the Setup section.

4. Brushless Motor

This tool is equipped with an efficient brushless motor, which requires no carbon brush replacement, reducing maintenance needs and offering a longer lifespan compared to brushed motors.



POWER & BATTERY INDICATOR

The display panel allows you to intuitively control the speed, and know battery allowance of the tool at any time.

Image: A detailed view of the high-strength gear construction within the angle grinder, designed for precision control and excellent wear resistance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start	Battery not inserted correctly or discharged	Ensure battery is fully inserted. Charge battery if needed.
Reduced power or stops during use	Battery low or overloaded tool	Recharge battery. Reduce pressure on the workpiece.
Excessive vibration	Damaged or improperly installed wheel	Inspect wheel for damage and replace if necessary. Reinstall wheel correctly.
Tool overheats	Blocked ventilation slots or continuous heavy use	Clean ventilation slots. Allow tool to cool down. Avoid prolonged heavy use.

WARRANTY AND SUPPORT

AOBEN products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact AOBEN customer service directly through their official website or the retailer where the product was purchased. Please have your model number (AT102D-115) and purchase date available when contacting support.