

AOBEN AT-3113x

AOBEN 1200W Angle Grinder 4-1/2 inch (Model AT-3113x) Instruction Manual

Please read this manual carefully before operating the tool.

1. IMPORTANT SAFETY INSTRUCTIONS

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when using power tools. Keep this manual for future reference.

General Power Tool Safety

- **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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug. Do not abuse the cord. Keep the cord away from heat, oil, sharp edges, or moving parts.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool. Wear a dust mask if operating in dusty conditions. Dress properly; avoid 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 before making any adjustments, changing accessories, or storing power tools.

Angle Grinder Specific Safety

- **Guards:** Always use the wheel guard. Ensure it is securely attached and positioned for maximum safety.
- **Accessories:** Only use accessories that are specifically designed for this angle grinder and rated for at least the maximum speed of the tool.
- **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.
- **Starting the Tool:** Ensure the wheel is clear of the workpiece before starting the tool.
- **Cooling:** Allow the tool to cool down after extended use to prevent overheating.

2. PRODUCT OVERVIEW

The AOBEN 1200W Angle Grinder (Model AT-3113x) is a corded electric tool designed for cutting, grinding, and polishing various materials. It features a 1200W motor, 6-speed adjustable control, and an ergonomic design for user comfort.

Key Components

- **Angle Grinder Body:** Main unit housing the motor and controls.
- **Auxiliary Handle:** Provides additional grip and control.
- **Wheel Guard:** Protects the user from sparks and debris.
- **Spindle Lock:** Facilitates quick and easy disc changes.
- **On/Off Switch:** Controls power to the tool, with a switch lock for continuous operation.
- **Speed Adjustment Dial:** Allows selection of 6 different speed settings.
- **Discs:** Includes grinding wheels, flap discs, cutting wheels, and sanding paper.
- **Wrench:** Used for tightening and loosening the disc pressers.
- **Tool Bag:** For storage and transport.



Figure 1: AOBEN Angle Grinder with labeled components.



Figure 2: Included components with the AOBEN Angle Grinder.

3. ASSEMBLY AND SETUP

Attaching the Auxiliary Handle

The auxiliary handle can be screwed into either side of the grinder head, depending on user preference and application. Ensure it is tightened securely before operation.

Installing and Changing Discs

Always ensure the tool is unplugged from the power source before installing or changing discs.

1. Adjust the tightness of the wheel guard using the provided wrench.
2. Press and hold the spindle lock button.
3. Use the wrench to remove the inner presser nut by turning it counter-clockwise.
4. Place the desired disc onto the spindle, ensuring it is centered.

5. Install the outer presser nut and tighten it clockwise with the wrench while holding the spindle lock button.



Figure 3: Disc installation steps.



Figure 4: Various disc types for different applications.

Adjusting the Wheel Guard

The wheel guard can be rotated to provide optimal protection for the specific task. Loosen the guard's fastening mechanism, rotate to the desired position, and securely tighten it before use.

4. OPERATION

Before operating, ensure all safety instructions are understood and followed. Wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, and gloves.

Powering On and Off

- **To Start:** Plug the tool into a suitable power outlet. Press the On/Off switch.
- **For Continuous Operation:** Press the On/Off switch and then engage the switch lock button.
- **To Stop:** Release the On/Off switch. If the switch lock is engaged, press the On/Off switch again to disengage the lock and stop the tool.

Speed Adjustment

The angle grinder features a 6-speed adjustable control, allowing you to select the appropriate RPM for different materials and tasks. Rotate the speed adjustment dial to select the desired speed setting from 3000 RPM to 11000 RPM.



Figure 5: 6-Speed Adjustment Control.

Application Techniques

Always allow the disc to reach full operating speed before contacting the workpiece. Apply light, even pressure. Avoid excessive force, which can cause kickback or damage the disc and tool.

- **Cutting:** Use a cutting disc. Position the workpiece securely. Make shallow passes, allowing the disc to do the work.
- **Grinding:** Use a grinding disc. Hold the tool at a slight angle to the workpiece (typically 15-30 degrees). Move the tool smoothly across the surface.
- **Polishing:** Use a polishing pad. Apply appropriate polishing compound. Use lower speed settings and gentle, consistent pressure.



Figure 6: Angle grinder applications: Cutting, Grinding, and Polishing.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your angle grinder. Always unplug the tool before performing any maintenance.

- **Cleaning:** Keep the tool's ventilation openings clean to prevent overheating. Use a soft brush or compressed air to remove dust and debris. Do not use water or chemical cleaners.
- **Disc Inspection and Replacement:** Regularly inspect discs for cracks, chips, or excessive wear. Replace damaged or worn discs immediately.
- **Cord Inspection:** Check the power cord for any signs of damage, cuts, or fraying. If damaged, have it repaired by a qualified technician.
- **Gearbox Lubrication:** Periodically check the gearbox for proper lubrication. Refer to a qualified service center for this maintenance.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Tool does not start	No power supply; Damaged power cord; Faulty switch	Check power outlet and connections; Inspect power cord for damage; Contact service center if switch is faulty.
Excessive vibration	Damaged or unbalanced disc; Loose components	Replace disc; Ensure all components (guard, handle, presser nuts) are securely tightened.
Poor cutting/grinding performance	Worn or incorrect disc; Insufficient power; Incorrect speed setting	Replace disc; Ensure tool is plugged into a proper power source; Adjust speed setting for the material.
Overheating	Blocked ventilation; Prolonged heavy use	Clean ventilation openings; Allow tool to cool down; Reduce load during operation.

7. SPECIFICATIONS

Feature	Specification
Brand	AOBEN
Model Number	AT3113X
Power Source	Corded Electric
Voltage	120 volts
Motor Power	1200W (10 Amp)
Maximum Rotational Speed	11000 rpm
Speed Settings	6-Speed Adjustable
Disc Size	4-1/2 inch
Arbor Size	7/8 inch
Spindle Thread	5/8 inch - 11
Included Components	Angle Grinder x1, Discs x 19, Guard Wheel x1, Tool Bag x 1, Wrench x1

8. WARRANTY AND SUPPORT

AOBEN provides warranty support, expert assistance, spare parts service, and repair services for its products. For specific warranty details, service requests, or technical support, please refer to the warranty card included with your product or contact AOBEN customer service directly.

Keep your purchase receipt as proof of purchase for warranty claims.

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