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RYOBI 4935431730

AEG WS 2200-230 Angle Grinder User Manual

Model: 4935431730 | Brand: RYOBI (Manufactured by AEG)

1. Introduction

1.1 Product Overview

The AEG WS 2200-230 Angle Grinder is a powerful and robust tool designed for demanding grinding and cutting applications. It features a 2200W motor and a 230 mm disc capacity, making it suitable for heavy-duty tasks. Key features include outstanding performance in grinding and cutting, a spindle lock for easy stone changes, an ergonomic design for comfortable use, and a large surface trigger for enhanced control. This manual provides essential information for safe and effective operation, maintenance, and troubleshooting.

1.2 General Safety Warnings

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 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:** Power tool plugs must match the outlet. Never modify the plug in any way. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection, hearing protection, and appropriate respiratory protection. Use personal protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection for appropriate conditions.
- **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.
- **Specific Grinder Safety:** Always use the guard. Ensure the accessory is correctly attached and tightened. Do not use damaged accessories.

2. Product Components

Familiarize yourself with the main components of your AEG WS 2200-230 Angle Grinder:

- **Main Body:** Houses the motor and internal mechanisms.
- **Side Handle:** Provides additional grip and control during operation. Can be mounted in multiple positions.
- **Protective Guard:** Essential for user safety, deflecting sparks and debris.
- **Spindle Lock Button:** Used to lock the spindle for easy disc changes.
- **Power Cord:** Connects the tool to the electrical supply.
- **Grinding/Cutting Disc:** The consumable accessory used for material removal or cutting.



Figure 2.1: Front view of the AEG WS 2200-230 Angle Grinder, showing the main body, side handle, and a mounted grinding disc.



Figure 2.2: Side view of the AEG WS 2200-230 Angle Grinder, highlighting its ergonomic design and power cord.

3. Setup and Assembly

3.1 Attaching the Side Handle

The side handle can be screwed into one of the available threaded holes on the gear housing. Choose a position that provides the best control and comfort for your application. Ensure it is tightened securely before operation.

3.2 Installing the Protective Guard

The protective guard is crucial for safety. Slide the guard onto the collar of the gear housing. Rotate it until it covers the grinding disc adequately and provides maximum protection from sparks and debris. Secure it firmly using the provided clamping mechanism or screws, ensuring it cannot rotate freely during operation.

3.3 Mounting/Changing the Grinding Disc

1. **Disconnect Power:** Always unplug the grinder from the power source before changing discs.
2. **Press Spindle Lock:** Press and hold the spindle lock button to prevent the spindle from rotating.
3. **Loosen Flange Nut:** Use the supplied spanner wrench to loosen and remove the outer flange nut.
4. **Remove Old Disc:** Carefully remove the old grinding or cutting disc.
5. **Install New Disc:** Place the new disc onto the inner flange, ensuring it sits flush. The disc should be rated for the grinder's maximum RPM.
6. **Secure Flange Nut:** Replace the outer flange nut and tighten it firmly with the spanner wrench while holding the spindle lock button. Do not overtighten.
7. **Check Rotation:** Release the spindle lock and manually rotate the disc to ensure it spins freely and is properly seated.

4. Operation

4.1 Power Connection

Ensure the grinder is connected to a suitable 220-230V AC power supply. Verify that the power cord is in good condition and free from damage.

4.2 Starting and Stopping

- **Starting:** Press the large surface trigger to start the grinder. Some models may have a lock-on button for continuous operation.
- **Stopping:** Release the trigger to stop the grinder. If using the lock-on feature, press and release the trigger quickly to disengage it.

4.3 Grinding Applications

For grinding, hold the tool firmly with both hands. Apply light, even pressure, allowing the disc to do the work. Move the grinder smoothly across the workpiece. Avoid excessive pressure, which can lead to overheating or kickback.



Figure 4.1: The AEG WS 2200-230 Angle Grinder in use for grinding metal, demonstrating its powerful performance.

4.4 Cutting Applications

When cutting, use a cutting disc and ensure the guard is positioned correctly. Make shallow passes rather than trying to cut through the material in one go. Maintain a steady hand and allow the disc to cut without forcing it.



Figure 4.2: The AEG WS 2200-230 Angle Grinder being used to cut concrete blocks, showcasing its versatility.

4.5 Operational Safety Tips

- Always secure the workpiece to prevent movement during operation.
- Never operate the grinder without the protective guard properly installed.
- Keep hands and body clear of the rotating disc.
- Allow the disc to reach full speed before contacting the workpiece.
- Avoid kickback by maintaining a firm grip and being aware of the disc's rotation direction.
- Do not use the grinder in wet conditions or near flammable materials.

5. Maintenance

WARNING! Always disconnect the plug from the power source before performing any maintenance or cleaning.

5.1 Cleaning

Regularly clean the ventilation openings of the grinder to prevent dust buildup, which can lead to overheating. Use a soft brush or compressed air to remove debris. Do not use water or chemical cleaners.

5.2 Carbon Brush Replacement

The AEG WS 2200-230 features easy charcoal (carbon brush) change. Carbon brushes wear down over time and need replacement when they become too short. Refer to the specific instructions in your grinder's manual for the exact procedure, which typically involves unscrewing brush caps, removing old brushes, and inserting new ones.

5.3 Disc Inspection and Replacement

Before each use, inspect the grinding or cutting disc for cracks, chips, or excessive wear. A damaged disc can shatter during operation, causing serious injury. Replace worn or damaged discs immediately. Always use discs that are compatible with your grinder's specifications (size, RPM rating).

6. Troubleshooting

This section addresses common issues you might encounter with your angle grinder.

Problem	Possible Cause	Solution
Grinder does not start	No power supply; Faulty power cord/plug; Worn carbon brushes; Internal fault	Check power outlet and connections; Inspect power cord for damage; Replace carbon brushes; Consult qualified service personnel
Excessive sparks or vibration	Worn or damaged disc; Incorrect disc type; Loose disc/flange nut; Overloading the tool	Replace disc; Ensure correct disc for material; Tighten flange nut; Reduce pressure on workpiece
Motor overheats	Blocked ventilation openings; Continuous heavy use; Overloading	Clean ventilation slots; Allow tool to cool down; Reduce load or take breaks

Problem	Possible Cause	Solution
Reduced power or intermittent operation	Worn carbon brushes; Loose electrical connection	Replace carbon brushes; Check power cord and plug connections

7. Technical Specifications

Specification	Value
Brand	RYOBI (Manufactured by AEG)
Model Number	4935431730
Power Source	Wired Electric
Voltage	230 Volts (AC)
Wattage	2200 watts
Maximum Rotational Speed	6600 RPM
Disc Diameter	230 mm
Item Weight	6.9 Kilograms (15.18 pounds)
Product Dimensions	23.43"L x 7.48"W x 6.89"H
Material	Metal
Color	Orange
Included Components	User manual

8. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official RYOBI or AEG website. Keep your purchase receipt as proof of purchase for any warranty claims.
For technical support, spare parts, or service inquiries, please contact the manufacturer or your authorized dealer. Contact information can typically be found on the product packaging or the manufacturer's official website.
Manufacturer: AEG

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