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Milwaukee AGV 13-125 X E Angle Grinder User Manual

Model: 4933451218

1. IMPORTANT SAFETY INSTRUCTIONS

Always read and understand 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:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use personal protective equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate. Dress properly. Do not wear loose clothing or jewelry.
- **Power 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 ensure the guard is correctly fitted and adjusted. Use only discs with the correct diameter and bore size. Never use damaged or incorrect discs.

2. PRODUCT OVERVIEW

The Milwaukee AGV 13-125 X E is a robust 125mm angle grinder designed for various grinding and cutting applications. It features a powerful 1250W motor, electronic rotation control for versatile use, and a dust-protected motor for enhanced durability and extended tool life.



Figure 2.1: Milwaukee AGV 13-125 X E Angle Grinder, showing its compact design and main body.

Key Features:

- **Powerful 1250 Watt Motor:** Provides ample power for demanding grinding and cutting tasks.
- **125 mm Disc Diameter:** Compatible with standard 125mm grinding and cutting discs.
- **Electronic Rotation Control:** Allows for variable speed adjustment to suit different materials and applications.
- **Dust-Protected Motor:** Designed to prevent dust ingress, significantly extending the motor's lifespan and maintaining performance.

3. SETUP

1. **Unpacking and Inspection:** Carefully remove the angle grinder and all accessories from the packaging. Inspect for any damage that may have occurred during transit. Ensure all components listed in the package contents are present.
2. **Attaching the Guard:** Position the protective guard over the spindle collar. Rotate it until it covers the disc as much as possible, ensuring it is securely locked in place. The guard must always be used for safety.
3. **Mounting the Side Handle:** Screw the auxiliary side handle into one of the threaded holes on the gear housing. Choose the position that offers the best grip and control for your application.
4. **Installing the Grinding/Cutting Disc:**
 - Press the spindle lock button to prevent the spindle from rotating.
 - Place the inner flange onto the spindle.
 - Position the desired 125mm grinding or cutting disc onto the inner flange, ensuring it sits flush.
 - Screw the outer flange (locking nut) onto the spindle.
 - Use the provided spanner wrench to tighten the outer flange securely. Release the spindle lock.
5. **Power Connection:** Ensure the tool's switch is in the "OFF" position. Connect the power cord to a suitable 230V AC power outlet.

4. OPERATING INSTRUCTIONS

Before operating, ensure you have read and understood all safety instructions and the tool is correctly set up.

- Starting the Tool:** Hold the grinder firmly with both hands. Press the ON/OFF switch to start the tool. Allow the disc to reach full operating speed before contacting the workpiece.
- Electronic Rotation Control:** Adjust the speed dial to select the appropriate RPM for your material and application. Lower speeds are generally used for polishing or delicate work, while higher speeds are for aggressive grinding and cutting.
- Grinding:** Apply light, even pressure. Move the grinder smoothly across the workpiece. Avoid excessive pressure, which can overload the tool and damage the disc. Maintain an angle of approximately 15-30 degrees between the disc and the workpiece surface.
- Cutting:** For cutting, hold the grinder at a 90-degree angle to the workpiece. Use a cutting disc and make straight, controlled passes. Do not attempt to bend or twist the cutting disc during operation.
- Stopping the Tool:** Release the ON/OFF switch. Wait for the disc to come to a complete stop before setting the tool down.

WARNING: Always ensure proper ventilation and wear appropriate personal protective equipment, including eye protection, hearing protection, and a dust mask, during operation.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your Milwaukee angle grinder. Always disconnect the tool from the power supply before performing any maintenance.

- Cleaning:** Regularly clean the ventilation slots and the tool housing to prevent dust buildup. The dust-protected motor design helps, but external cleaning is still necessary. Use a soft brush or compressed air. Do not use water or chemical cleaners.
- Disc Replacement:** Replace worn or damaged grinding/cutting discs immediately. Follow the disc installation steps outlined in the "Setup" section.
- Power Cord Inspection:** Periodically inspect the power cord for any signs of damage, cuts, or fraying. If damaged, have it replaced by a qualified service technician.
- Brush Inspection (if applicable):** If your model uses carbon brushes, inspect them periodically for wear. Replace both brushes simultaneously if one is worn down to the wear limit mark.
- Storage:** Store the tool in a dry, secure location out of reach of children.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Tool does not start	No power supply; Faulty switch; Damaged power cord.	Check power outlet and connections. Ensure switch is fully engaged. Inspect power cord for damage. If cord is damaged, seek professional repair.
Excessive vibration	Disc improperly mounted; Damaged or unbalanced disc; Loose components.	Ensure disc is correctly and securely mounted. Replace damaged or unbalanced discs. Check for any loose parts and tighten them.

Problem	Possible Cause	Solution
Tool overheats	Blocked ventilation slots; Overloading the tool; Worn motor brushes.	Clean ventilation slots. Reduce pressure during operation. Allow tool to cool down. If brushes are worn, replace them (if applicable).
Reduced performance	Worn disc; Worn motor brushes; Dust buildup.	Replace the disc. Inspect and replace motor brushes. Clean the tool thoroughly.

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact Milwaukee customer service or an authorized service center.

7. SPECIFICATIONS

Specification	Value
Brand	Milwaukee
Model Number	4933451218 (AGV 13-125 X E)
Power Input	1250 Watts
Voltage	230 Volts
Disc Diameter	125 mm
Electronic Rotation	Yes
Motor Protection	Dust-protected
Weight	3.42 Kilograms
Materials	Metallo, Plastica, Gomma
Power Source	Corded Electric
Included Components	1 Angle Grinder

8. WARRANTY AND SUPPORT

Milwaukee power tools are manufactured to the highest quality standards. For information regarding the warranty period and conditions applicable to your Milwaukee AGV 13-125 X E Angle Grinder, please refer to the warranty card included with your product or visit the official Milwaukee website.

For technical assistance, spare parts, or service, please contact your local authorized Milwaukee service center or customer support. Contact details can typically be found on the official Milwaukee website or in your product documentation.

Online Resources: For additional information, product registration, and FAQs, please visit the official Milwaukee website: www.milwaukeetool.eu



