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› Metabo 4-1/2-Inch / 5-Inch Angle Grinder, 11,000 RPM, 7 Amp, Slide Switch (Locking), W 750-115, 603604420, Green User Manual

Metabo 603604420

Metabo Angle Grinder User Manual

Model: W 750-115 (603604420)

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Metabo 4-1/2-Inch / 5-Inch Angle Grinder, Model W 750-115 (603604420). Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

The Metabo Performance Series Angle Grinder is engineered to deliver fast cutting, grinding, and material removal. It features a heavy-duty AC/DC motor with optimized airflow for increased overload capacity under heavy loads in industrial and construction applications, such as weld preparation, grinding and brushing weld seams, metal removal, and cutting rod, angle iron, and pipe.

Key Features:

- **German Engineered:** For durability, safety, and productivity.
- **Long-lasting Motor:** Designed for extended operational life.
- **Tool-free Adjustable Guard:** For user convenience and burst-proof protection.
- **Performance:** 11,000 RPM / 7.0 Amps.
- **Voltage:** 120V AC/DC.
- **Included Components:** Side handle and guard.
- **Advanced Design:** Features unobstructed rear air intake, optimized internal air flow, and epoxy coated copper windings.
- **Versatile Applications:** Suitable for grinding, cutting, beveling, deburring, brushing, and finishing of metal.

2. SAFETY INFORMATION

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

General Power Tool Safety Warnings:

- **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. Do not 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 and/or remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts.

Angle Grinder Specific Safety Warnings:

- Always use the guard. Ensure the guard is securely attached and positioned for maximum safety.
- Use only grinding wheels and accessories that are rated for the speed of the grinder.
- Inspect the grinding wheel for cracks or damage before each use. Do not use damaged wheels.
- Hold the tool firmly with both hands.
- Keep hands clear of rotating parts.
- Be aware of sparks and flying debris. Ensure bystanders are at a safe distance.
- Do not use the grinder for applications for which it is not designed.

3. COMPONENTS AND OVERVIEW

Familiarize yourself with the main components of your Metabo Angle Grinder:



Figure 3.1: Metabo Angle Grinder W 750-115. This image shows the main body of the grinder, the attached grinding wheel, the protective guard, and the side handle, providing a complete view of the tool's primary components.

- **Grinder Body:** Contains the motor and internal components.
- **Grinding Spindle:** The shaft where the grinding wheel is attached.
- **Guard:** A protective cover designed to shield the user from debris and the rotating wheel.
- **Side Handle:** Provides additional grip and control for two-handed operation.
- **Slide Switch (Locking):** Used for turning the tool on and off, with a locking feature for continuous operation.

- **Power Cord:** For connecting the tool to an electrical outlet.

4. SETUP

4.1 Attaching the Guard

The tool-free adjustable guard is designed for user convenience and burst-proof protection. To attach or adjust the guard:

1. Ensure the grinder is unplugged from the power source.
2. Align the guard with the collar on the grinder head.
3. Push the guard onto the collar and rotate it to the desired position for your application. The guard should click into place or be secured by a lever/clamp mechanism.
4. Ensure the guard is firmly seated and cannot rotate freely.

4.2 Attaching the Side Handle

The side handle can be screwed into either side of the grinder head, depending on your preference and the application.

1. Ensure the grinder is unplugged.
2. Screw the side handle firmly into one of the threaded holes on the grinder head.
3. Ensure it is tightened securely before operation.

4.3 Installing the Grinding Wheel

Always use grinding wheels appropriate for the grinder's specifications (4-1/2-inch or 5-inch diameter, 11,000 RPM rating).

1. Ensure the grinder is unplugged.
2. Press and hold the spindle lock button (if present) to prevent the spindle from rotating.
3. Place the inner flange onto the spindle.
4. Place the grinding wheel onto the spindle, ensuring it sits flush against the inner flange.
5. Screw the outer flange (or locking nut) onto the spindle and tighten it securely using the spanner wrench provided.
6. Release the spindle lock.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

The Metabo W 750-115 features a slide switch with a locking function.

- **To Turn On:** Slide the switch forward until it locks into the ON position.
- **To Turn Off:** Press the rear part of the slide switch to release the lock and slide it back to the OFF position.

5.2 Grinding and Cutting Techniques

Always wear appropriate personal protective equipment (PPE) including eye protection, hearing protection, gloves, and a dust mask.



Figure 5.1: Angle grinder in use for cutting metal, demonstrating proper handling and spark direction. The user is wearing protective gear, and sparks are visibly flying away from the operator.

- **Secure Workpiece:** Always clamp or secure the workpiece firmly to prevent movement during operation.
- **Proper Grip:** Hold the grinder firmly with both hands, using the main handle and the side handle.
- **Starting the Cut/Grind:** Allow the wheel to reach full speed before contacting the workpiece.
- **Angle of Approach:** For grinding, hold the wheel at a slight angle (typically 15-30 degrees) to the workpiece. For cutting, hold the wheel perpendicular to the workpiece.
- **Controlled Pressure:** Apply steady, moderate pressure. Do not force the tool, as this can lead to kickback or damage to the wheel/motor.
- **Direction of Sparks:** Position yourself and the workpiece so that sparks are directed away from your body, flammable materials, and bystanders.

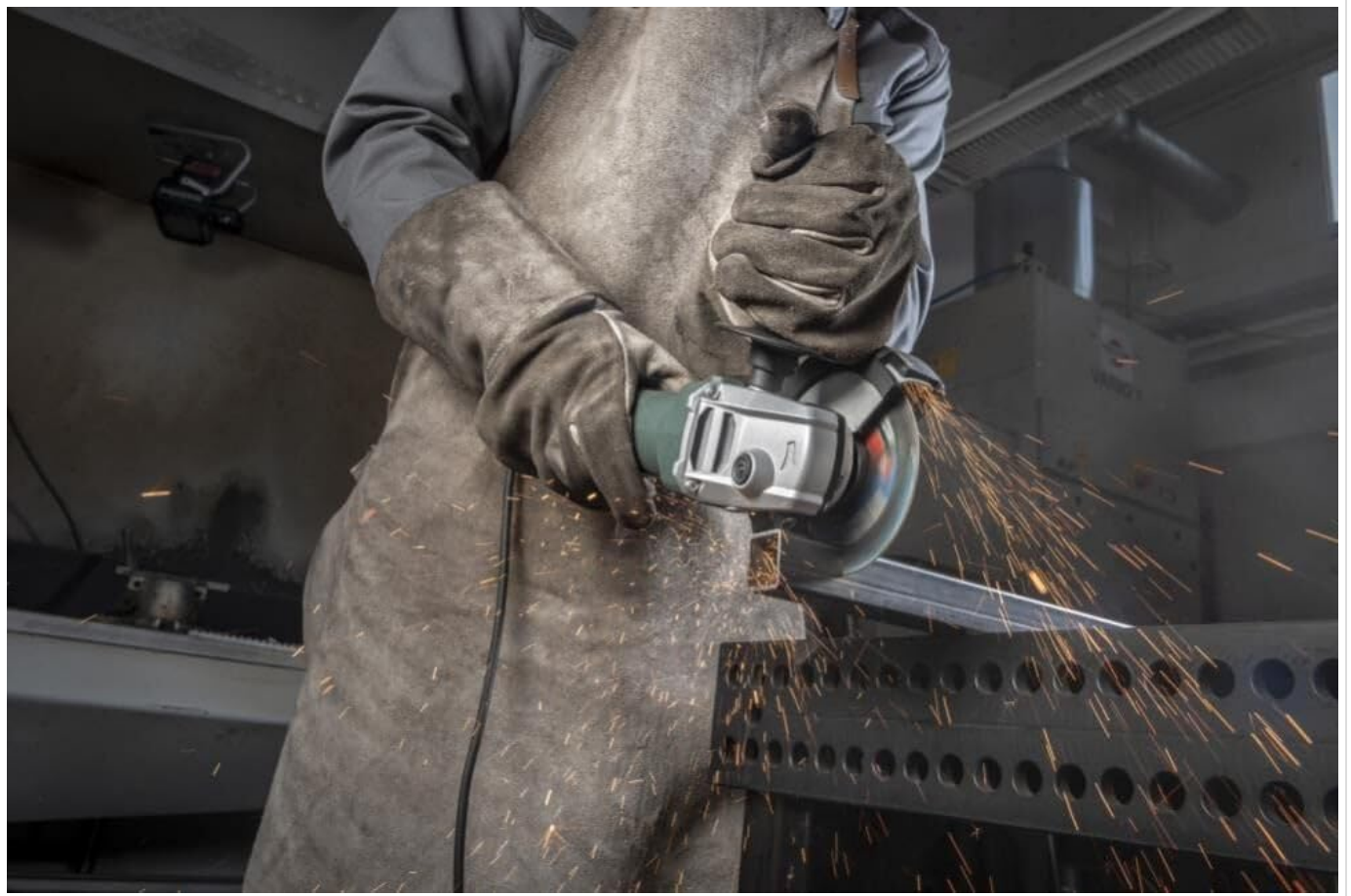


Figure 5.2: Close-up view of the angle grinder in operation, highlighting the sparks generated during metalwork. This image emphasizes the precision and intensity of the grinding process.

6. MAINTENANCE

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

- **Cleaning:** Regularly clean the tool, especially the air vents, to prevent dust and debris buildup which can hinder airflow and cause overheating. Use a dry cloth or compressed air.
- **Cord Inspection:** Periodically inspect the power cord for any signs of damage, cuts, or fraying. Replace damaged cords immediately.
- **Brush Inspection (if applicable):** If your model has carbon brushes, inspect them periodically for wear. Replace them when they are worn down to the wear limit mark.
- **Guard and Handle Check:** Ensure the guard and side handle are always securely attached and free from damage.
- **Storage:** Store the grinder in a dry, secure place, out of reach of children and away from direct sunlight or extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start.	No power supply; Damaged power cord; Faulty switch.	Check power outlet and circuit breaker; Inspect power cord for damage; Contact qualified service personnel.
Excessive vibration.	Damaged or unbalanced grinding wheel; Loose flanges.	Replace grinding wheel; Ensure flanges are tightened securely.
Overheating.	Blocked air vents; Overloading the tool.	Clean air vents; Reduce pressure during operation; Allow tool to cool.
Sparks from motor housing.	Normal brush wear; Worn carbon brushes.	Minor sparking is normal. If excessive, inspect and replace carbon brushes.

8. SPECIFICATIONS

Attribute	Value
Brand	Metabo
Model Number	603604420 (W 750-115)
Power Source	Corded Electric
Voltage	120 Volts AC/DC
Wattage	750 watts
Maximum Rotational Speed	11,000 RPM
Amperage	7 Amp
Item Weight	4.99 pounds
Material	Aluminum
Color	Green
Included Components	Side Handle, Guard

9. WARRANTY AND SUPPORT

Warranty: This Metabo Angle Grinder comes with a 3-Year Limited Warranty. Please refer to the warranty card included with your product for full terms and conditions.

Customer Support: For technical assistance, service, or replacement parts, please contact Metabo customer support. Visit the official Metabo website for contact information and authorized service centers.

You can also visit the [Metabo Store on Amazon](#) for more product information and accessories.

