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› [AVID POWER](#) /

› [AVID POWER 7.5-Amp 4-1/2 inch Electric Angle Grinder \(Model AAG589\) Instruction Manual](#)

AVID POWER AAG589

AVID POWER 7.5-Amp 4-1/2 inch Electric Angle Grinder (Model AAG589) Instruction Manual

Model: AAG589 | Brand: AVID POWER

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your AVID POWER 7.5-Amp 4-1/2 inch Electric Angle Grinder. Please read and understand all instructions before using the tool. Keep this manual for future reference.

2. SAFETY INFORMATION

Always prioritize safety when operating power tools. Failure to follow safety instructions can result in serious injury or property damage. This section highlights general safety guidelines. Refer to the full safety warnings in the included user manual for complete details.

- **Personal Protective Equipment (PPE):** Always wear appropriate eye protection (safety glasses or goggles), hearing protection, and heavy-duty gloves. A dust mask is recommended for dusty operations.
- **Work Area Safety:** Keep the work area clean, well-lit, and free of clutter. Ensure proper ventilation. Keep bystanders, especially children, away while operating the tool.
- **Electrical Safety:** Ensure the power supply matches the tool's requirements. Avoid using the tool in damp or wet conditions. Do not abuse the power cord.
- **Tool Handling:** Always maintain a firm grip on the grinder with both hands. Ensure the auxiliary handle is securely attached. Never operate the grinder without the wheel guard properly installed and adjusted.
- **Disc Safety:** Use only discs rated for the grinder's maximum RPM. Inspect discs for damage before each use. Never force a disc onto the spindle.
- **Kickback Prevention:** Be aware of potential kickback. Always position yourself to the side of the grinding wheel, not in line with it. Avoid binding the disc in the workpiece.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking your AVID POWER Angle Grinder:

- 1 x AVID POWER 7.5-Amp 4-1/2 inch Electric Angle Grinder (Model AAG589)

- 1 x Auxiliary Side Handle
- 1 x Spanner Wrench
- 1 x Wheel Guard
- 2 x Carbon Brushes (for replacement)
- 2 x Metal Cutting Wheels (4-1/2 inch)
- 2 x Metal Grinding Wheels (4-1/2 inch)
- 1 x Flap Disc (4-1/2 inch)
- 1 x User Manual

THE PACKAGE INCLUDES



Compact and Lightweight Design



1 x Side handle



1 x Spanner



2 x Carbon brush



2 x Cutting wheel



2 x grinding wheel



1 x Flap discs

Figure 3.1: The AVID POWER Angle Grinder with its complete set of accessories, including the main unit, side handle, spanner, wheel guard, carbon brushes, cutting wheels, grinding wheels, and a flap disc.

4. SETUP

4.1 Attaching the Auxiliary Handle

The auxiliary handle can be attached to either side of the grinder's gear housing for optimal control and comfort, depending on your dominant hand and the task at hand.

1. Locate the threaded holes on both sides of the grinder's gear housing.
2. Screw the auxiliary handle firmly into the desired side. Ensure it is tightened securely before operation.



Figure 4.1: The angle grinder showing the attachment point for the auxiliary handle, which can be positioned on either side for user comfort and control.

4.2 Installing the Wheel Guard

The wheel guard is essential for safety, protecting against sparks and debris. It is adjustable to suit different working angles.

1. Loosen the clamp screw on the wheel guard.
2. Position the guard over the spindle housing, ensuring it covers the top portion of the disc.
3. Adjust the guard to direct sparks and debris away from you.
4. Tighten the clamp screw firmly to secure the guard in place.

4.3 Installing/Changing Grinding and Cutting Wheels

Always ensure the grinder is unplugged before changing any accessories.

1. **Press the Spindle Lock:** Locate and press the spindle lock button on the gear housing. This prevents the spindle from rotating.
2. **Remove Flange Nut:** Use the provided spanner wrench to loosen and remove the outer flange nut.
3. **Place the Wheel:**
 - For **Grinding Wheels:** Place the wheel with the flat side facing up.
 - For **Cutting Wheels and Flap Discs:** Place the wheel with the convex side facing up.
4. **Reinstall Flange Nut:** Place the outer flange nut back onto the spindle.
5. **Tighten Securely:** While still pressing the spindle lock, use the spanner wrench to firmly tighten the flange nut. Do not overtighten.



Figure 4.2: Visual guide for correctly installing a grinding wheel, cutting wheel, or flap disc, emphasizing the correct orientation for each type.



Figure 4.3: Step-by-step illustration demonstrating the process of installing a wheel disc, including pressing the spindle lock, placing the wheel, and tightening the flange nut.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

The AVID POWER Angle Grinder features a convenient slide switch for operation.

1. To turn **ON**: Push the switch button forward towards the grinder head and then press it downward. The switch will lock into the ON position.
2. To turn **OFF**: Press the rear part of the switch button to release it from the locked position.



Figure 5.1: The ON/OFF slide switch, designed for easy and secure operation, allowing the user to lock the tool in the ON position for continuous use.

5.2 General Operation Tips

- Allow the grinder to reach full speed before contacting the workpiece.
- Apply light, even pressure. Do not force the tool, as this can cause kickback or damage the disc/motor.
- Move the grinder smoothly across the workpiece.
- Always unplug the tool when not in use or before performing any adjustments or maintenance.

5.3 Applications

The AVID POWER Angle Grinder is versatile for various tasks:

- **Cutting:** Use cutting wheels for precise cuts in metal, aluminum, copper, iron, and steel.
- **Grinding:** Use grinding wheels for shaping, smoothing, and removing excess material from metal surfaces.
- **Polishing & Rust Removal:** Use flap discs for surface preparation, rust removal, paint removal, burr removal, and polishing welds.



Figure 5.2: The AVID POWER Angle Grinder demonstrating its powerful 7.5 Amp motor and 12,000 RPM no-load speed during a metalworking task, generating sparks.



Figure 5.3: The angle grinder equipped with a cutting wheel, actively cutting through a metal bar, illustrating its capability for metal cutting applications.

GRINDING



Figure 5.4: The angle grinder fitted with a grinding wheel, effectively grinding a metal surface and producing sparks, showcasing its metal grinding function.

POLISHING



Figure 5.5: The angle grinder utilizing a flap disc to polish a rusty metal surface, demonstrating its effectiveness in surface preparation and rust removal.

5.4 Official Product Video

Your browser does not support the video tag.

Video 5.1: An official product video from Avid Power showcasing the 7.5 Amp Angle Grinder (Model AG590) in various applications, highlighting its features and performance.

6. MAINTENANCE

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

6.1 Cleaning

- Keep the tool's ventilation openings clean to prevent overheating.
- Regularly clean dust and debris from the tool's exterior using a soft cloth or compressed air.

6.2 Carbon Brush Replacement

Carbon brushes are wear items and will need replacement over time. Your grinder includes spare carbon brushes.

- Locate the brush caps on the sides of the motor housing.
- Unscrew the brush caps and carefully remove the old carbon brushes.
- Insert the new carbon brushes, ensuring they are seated correctly.
- Screw the brush caps back on securely.

6.3 Storage

Store the grinder in a dry, secure place out of reach of children. Ensure the power cord is neatly coiled and not kinked.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start	No power supply; Faulty switch; Worn carbon brushes	Check power outlet/cord; Inspect/replace switch; Replace carbon brushes.
Excessive sparking at motor	Worn carbon brushes; Dirty commutator	Replace carbon brushes; Clean commutator (professional service recommended).
Overheating	Blocked ventilation slots; Overloading the tool	Clean ventilation slots; Reduce load/pressure during operation.
Excessive vibration	Damaged or improperly installed disc; Loose components	Inspect/replace disc, ensure correct installation; Check for loose screws/parts.

8. SPECIFICATIONS

Feature	Detail
Brand	AVID POWER
Model Number	AAG589
Power Source	Corded Electric
Amperage	7.5 Amps
Wattage	900 Watts
Voltage	120 Volts
Maximum Rotational Speed	12000 RPM
Wheel Diameter	4-1/2 inch

Feature	Detail
Item Weight	5.07 pounds
Product Dimensions	11.02" L x 2.76" W x 2.76" H
Material	Acrylonitrile Butadiene Styrene, Aluminum
Special Features	Heavy-duty, Lightweight

9. WARRANTY AND SUPPORT

For warranty information, product support, or to purchase replacement parts, please refer to the official AVID POWER website or contact their customer service directly. Details can typically be found in the included user manual or on the product packaging.

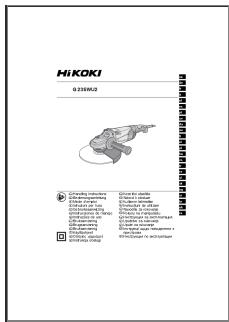
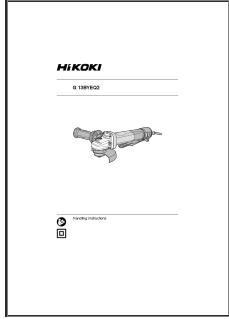
Protection plans are available for extended coverage:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect: One plan covers all eligible past and future purchases.

For further assistance, visit the [AVID POWER Store on Amazon](#).

Related Documents - AAG589

	<p>Campbell Hausfeld 9" Angle Grinder DG471500CK - Operating Instructions, Parts Manual & Warranty</p> <p>Comprehensive guide for the Campbell Hausfeld 9" Angle Grinder (Model DG471500CK), including operating instructions, assembly, safety precautions, maintenance, parts list, and limited warranty information. Learn how to safely and effectively use your angle grinder.</p>
	<p>TOTAL TG1101256E Electric Grinder - User Manual and Safety Guide</p> <p>Comprehensive user manual and safety instructions for the TOTAL TG1101256E 950W Electric Grinder. Includes technical specifications, setup, operation, maintenance, and troubleshooting.</p>
	<p>Bosch GWS11-450P Angle Grinder: Operating and Safety Instructions</p> <p>Comprehensive operating and safety instructions for the Bosch GWS11-450P angle grinder, covering safe usage, assembly, specifications, and maintenance for professional applications.</p>

	<p><u>HiKOKI G 23SWU2 Disc Grinder Safety Instructions and User Manual</u></p> <p>Comprehensive safety instructions and operational guidance for the HiKOKI G 23SWU2 Disc Grinder, covering safe operation, maintenance, applications, and technical specifications.</p>
	<p><u>Parkside PWSAP 20-Li G7 Akkukäytöinen Kulmahiomakone - Käyttöohje</u></p> <p>Kattava käyttöohje Parkside PWSAP 20-Li G7 -akkukäytöiselle kulmahiomakoneelle, joka kattaa turvallisen käytön, huollon, tekniset tiedot ja vianmääritysten. Sisältää ohjeet useilla kielillä.</p>
	<p><u>HiKOKI G 13BYEQ2 Disc Grinder Instruction Manual</u></p> <p>Comprehensive instruction manual for the HiKOKI G 13BYEQ2 Disc Grinder, detailing safety warnings, operating procedures, specifications, maintenance, and parts identification. Includes guidance on safe use for grinding and cutting applications.</p>