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## SHALL SH111010AE

# SHALL Angle Grinder Tool User Manual

Model: SH111010AE | Brand: SHALL

### INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and setup of your SHALL 7.5Amp 4-1/2 Inch Variable-Speed Angle Grinder. Please read this manual thoroughly before using the tool to ensure proper handling and to maximize its performance and lifespan.



Figure 1: SHALL Angle Grinder Tool and included accessories.

## PRODUCT FEATURES

- **Super Power:** Equipped with a 7.5 Amps motor and 900 W maximum power output, delivering a no-load speed of 12000 RPM for fast cutting, grinding, and polishing.
- **Universal Size:** Features a 4-1/2 inch grinder tool with a 7/8" arbor and a spindle size range of 5/8" -11 threaded.
- **6 Variable Speeds:** Speed can be adjusted between 3000 RPM and 12000 RPM via a 6-speed dial, enabling use as a cutting tool, grinder, polisher, or buffer.
- **Safety & Convenience Design:** Includes 2 types of Tool-Free wheel guards for cutting and grinding, a side switch with lock-off/on feature, and a raised spindle lock for easy accessory changes.
- **Ergonomic Design:** Features an ergonomic 2-position side handle made of non-slip rubber for enhanced control and comfort.
- **Compact & Lightweight:** Weighs just 4 pounds, providing a comfortable grip and reducing fatigue during

prolonged use.

- **Wide Application:** Efficient vent system and dust ejection make it ideal for cutting, grinding, polishing, buffing, sharpening, and surface preparation.

## Two-position Handle Tool-Free Guards



Figure 2: Key features and included components of the angle grinder.

### SETUP AND ASSEMBLY

Proper assembly of your angle grinder is crucial for safe and efficient operation. Follow these steps to install the necessary components.

#### Installing the Wheel Guard and Disc

1. Press the spindle lock button to prevent the shaft from rotating.
2. Unscrew the outer flange nut using the provided auxiliary wrench.
3. Install the appropriate wheel guard (for cutting or grinding) onto the grinder head. Ensure it is securely fastened.

4. Place the desired cutting or grinding wheel onto the shaft, ensuring it sits flush against the inner flange.
5. Re-attach the outer flange nut and tighten it securely using the auxiliary wrench while keeping the spindle lock pressed.



Figure 3: Visual guide for disc and guard installation.

### Video Guide: Angle Grinder Installation

Your browser does not support the video tag.

Video 1: Detailed instructions for installing the angle grinder components, including the cutting disc and guard.

### OPERATING INSTRUCTIONS

Familiarize yourself with the controls and operational features of your angle grinder before use.

#### Variable Speed Control

The angle grinder features a 6-speed dial allowing you to adjust the RPM from 3000 to 12000. This versatility enables optimal performance for various tasks and materials.

**Gear 1-2 (3000-5000 RPM):** Ideal for precision polishing with wool wheels or cutting/sanding wood/plastic/rubber.

**Gear 3-4 (7000-9000 RPM):** Suitable for use with non-woven abrasive wheels.

**Gear 5-6 (10000-12000 RPM):** Recommended for high-speed cutting and grinding of metal.



Figure 4: Variable speed dial for precise control.

### Power On/Off and Continuous Operation

The side switch features a lock-off/on mechanism for continuous operation, reducing user fatigue during extended tasks.

1. To start, press and hold the bottom button.
2. While holding the bottom button, press the side switch.
3. Release both buttons to engage continuous operation.
4. To stop the tool, press the bottom button again.



Figure 5: Side switch operation for continuous use.

## Applications

The SHALL Angle Grinder is designed for a wide range of applications, including:

- Cutting metal, wood, and other materials.
- Grinding welds, rust, and rough surfaces.
- Polishing and buffing various surfaces to a smooth finish.
- Sharpening tools and blades.
- Removing dust and preparing surfaces for finishing.



Figure 6: Versatile applications of the angle grinder.

## MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your angle grinder.

- **Cleaning:** Keep the tool's ventilation openings clear of dust and debris to ensure efficient cooling and prevent overheating. The efficient vent system and dust ejection help in this regard.
- **Carbon Brush Replacement:** Periodically inspect the carbon brushes for wear. Replace them when they are significantly worn to maintain motor efficiency. Replacement carbon brushes are included with your tool.
- **Disc Inspection:** Before each use, inspect cutting and grinding 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. Do not use the tool if the cord is damaged.
- **Storage:** Store the angle grinder in a dry, secure location away from moisture and direct sunlight.

## TROUBLESHOOTING

If you encounter issues with your SHALL Angle Grinder, consider the following common checks:

- **Tool Not Starting:**
  - Ensure the power cord is securely plugged into a functional outlet.
  - Check if the side switch is properly engaged for continuous operation (refer to Operating Instructions).
  - Inspect carbon brushes for wear; replace if necessary.
- **Reduced Performance/Overheating:**
  - Clean any dust or debris from the air vents to ensure proper cooling.
  - Ensure the correct disc type and size are being used for the application.
  - Avoid excessive pressure during operation, which can strain the motor.
- **Excessive Vibration:**
  - Check if the cutting/grinding disc is properly installed and tightened.
  - Inspect the disc for damage or imbalance; replace if necessary.

For persistent issues or problems not covered here, please contact SHALL customer support.

## SPECIFICATIONS

Attribute	Detail
Brand	SHALL
Model Number	SH111010AE
Power Source	Corded Electric
Voltage	120 Volts
Wattage	1200 watts
Amperage	7.5 Amps
Maximum Rotational Speed	12000 RPM
Disc Size	4-1/2 Inch
Arbor Size	7/8"
Spindle Thread	5/8" -11
Item Weight	7.06 pounds (3.21 Kilograms)
Product Dimensions	15.8"L x 5.8"W x 4.6"H
Color	Red
Material	Metal
Country of Origin	China

## WARRANTY INFORMATION

The SHALL Angle Grinder Tool comes with a **1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, please refer to the official product documentation or contact SHALL customer support.

## SUPPORT

For any questions, technical assistance, or support regarding your SHALL Angle Grinder, please contact the manufacturer directly.

- **Manufacturer:** SHALL
- **Seller:** SHALL DIRECT
- **Official Store:** Visit the SHALL Store on Amazon
- **User Manual (PDF):** Download PDF Manual

Always refer to the official SHALL website or contact their customer service for the most up-to-date support information.