

## Pretul 21355

# Pretul 4-1/2" Angle Grinder User Manual

Model: 21355

## INTRODUCTION

Thank you for choosing the Pretul 4-1/2" Angle Grinder. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before operating the grinder and keep it for future reference.

## IMPORTANT SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal 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 (safety glasses or goggles) and hearing protection. Use a dust mask if operations create dust. Dress properly; do not wear loose clothing or jewelry.
- **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 rated for at least the maximum speed of the tool. Hold the tool firmly with both hands.

## PRODUCT OVERVIEW AND COMPONENTS

Familiarize yourself with the parts of your Pretul Angle Grinder.



**Figure 1:** The Pretul 4-1/2 inch Angle Grinder, showing the main body, side handle, and a grinding disc with its guard. This image illustrates the tool's compact design and primary components.



**Figure 2:** The packaging for the Pretul Mini Angle Grinder, highlighting key specifications such as 4-1/2 inch disc size, 500W power, and 4A current. The box also displays the product model and brand logo.

## Key Components:

- **Main Body:** Houses the motor and internal mechanisms.
- **Side Handle:** Provides additional grip and control during operation. Can be mounted on either side.
- **Spindle Lock Button:** Used to lock the spindle for easy disc changes.
- **On/Off Switch:** Controls power to the tool.

- **Wheel Guard:** Protects the user from sparks and debris, and covers the rotating disc.
- **Grinding Disc:** The abrasive accessory used for grinding or cutting.

## SETUP

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### 1. Attaching the Side Handle:

1. Identify the threaded holes on either side of the grinder's gear housing.
2. Screw the side handle clockwise into the desired hole until it is securely tightened.

### 2. Installing/Changing the Grinding Disc:

1. Ensure the grinder is unplugged from the power source.
2. Press and hold the spindle lock button.
3. Using the spanner wrench (if provided), loosen and remove the outer flange nut by turning it counter-clockwise.
4. Place the desired grinding or cutting disc onto the spindle, ensuring it sits flush against the inner flange.
5. Replace the outer flange nut and tighten it securely with the spanner wrench while holding the spindle lock button.
6. Release the spindle lock button.

### 3. Adjusting the Guard:

The wheel guard can be rotated to provide optimal protection for your specific application. Loosen the guard's clamping screw, rotate the guard to the desired position, and then securely tighten the screw.

## OPERATING INSTRUCTIONS

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### 1. Powering On/Off:

- To turn on the grinder, slide the On/Off switch forward. For continuous operation, some models may have a lock-on feature; press the front of the switch to engage it.
- To turn off, release the switch. If locked on, press the rear of the switch to release the lock and turn off the tool.

### 2. Grinding Techniques:

- Always hold the grinder firmly with both hands.
- Allow the disc 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 motor.
- Maintain an angle of approximately 15-30 degrees between the disc and the workpiece for optimal grinding.

### 3. Cutting Techniques:

- Use only cutting discs for cutting applications.
- Hold the grinder at a 90-degree angle to the workpiece.
- Make shallow passes, gradually increasing the depth of the cut.
- Ensure the workpiece is securely clamped to prevent movement.

## MAINTENANCE

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### 1. Cleaning:

- Regularly clean the ventilation openings to prevent motor overheating. Use a soft brush or compressed air.
- Wipe the tool's exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

## 2. Disc Replacement:

Replace worn or damaged discs immediately. Refer to the "Installing/Changing the Grinding Disc" section for instructions.

## 3. Carbon Brushes:

The motor's carbon brushes may need replacement after extended use. This should ideally be performed by a qualified service technician.

# TROUBLESHOOTING

Problem	Possible Cause	Solution
Grinder does not start.	No power supply; faulty switch; worn carbon brushes.	Check power connection. Ensure switch is fully engaged. Have brushes inspected/replaced by service center.
Excessive vibration.	Damaged or improperly installed disc; loose components.	Inspect disc for damage and replace if necessary. Re-install disc correctly. Check all fasteners for tightness.
Overheating.	Blocked ventilation slots; continuous heavy use; dull disc.	Clean ventilation slots. Allow tool to cool down. Replace dull disc.
Reduced power.	Worn carbon brushes; motor issue.	Have brushes inspected/replaced. Contact service center for motor issues.

# SPECIFICATIONS

Feature	Detail
Brand	Pretul
Model Number	21355
Part Number	ESMA-4-1/2P4
Style	Angled
Voltage	127 Volts
Wattage	500 watts
Maximum Rotational Speed	3000 RPM
Item Weight	2.03 Kilograms (4.47 pounds)
Product Dimensions	4.96 x 12.52 x 15.28 inches

# WARRANTY AND SUPPORT

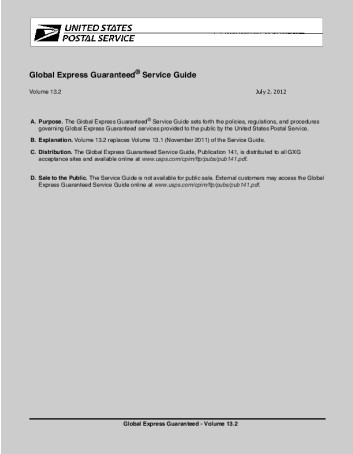
Pretul products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card

included with your product or visit the official Pretul website. Keep your purchase receipt as proof of purchase for any warranty claims.

For technical support, service, or replacement parts, please contact Pretul customer service through their official channels. Contact information is typically available on the product packaging or the manufacturer's website.

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Documents - Pretul – 21355



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