

AIRCAT 6220

AIRCAT 6220: 2" Angle Grinder

User Manual

Introduction

The AIRCAT 6220 2" Angle Grinder is a high-performance pneumatic tool designed for precision grinding tasks. It embodies AIRCAT's commitment to advanced pneumatic technology, offering a balance of power, reduced noise, and ergonomic design for enhanced user comfort and efficiency. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your AIRCAT 6220 Angle Grinder.

Key Features

- **15,000 RPM and .5 HP Motor:** Delivers powerful performance for various grinding applications.
- **Quiet Tuned Exhaust (80 dBA):** Significantly reduces noise levels during operation, improving the work environment.
- **Superior Steel Grade Internal Bearings:** Ensures extended tool life and durability.
- **Variable Speed Trigger with Safety Lock-Off:** Provides precise speed control and enhanced safety during use.
- **Ergonomically Designed Composite Overmold Housing:** Reduces operator stress and fatigue on hands, wrists, and arms.

Setup and Installation

Before operating your AIRCAT 6220 Angle Grinder, ensure all components are present and in good condition. Follow these steps for proper setup:

1. **Unboxing:** Carefully remove the angle grinder and all accessories from the packaging. Inspect for any shipping damage.
2. **Safety Gear:** Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves, before operating the tool.

3. **Air Supply Connection:** Connect the tool to a clean, dry, regulated air supply. Ensure the air hose is rated for the tool's operating pressure. The recommended air pressure is typically 90 PSI (6.2 Bar).
4. **Lubrication:** Add a few drops of pneumatic tool oil into the air inlet before each use to ensure proper lubrication of internal components.
5. **Accessory Installation:** Securely attach the appropriate 2-inch grinding disc or accessory to the spindle. Refer to the accessory manufacturer's instructions for proper installation and ensure it is rated for the grinder's maximum RPM.



Figure 1: The AIRCAT 6220 2-inch Angle Grinder, showcasing its compact design and red composite housing.

Operating Instructions

Follow these guidelines for safe and effective operation of your angle grinder:

1. **Pre-Operation Check:** Before each use, check the tool for any loose parts, damage, or excessive wear. Ensure the grinding disc is securely attached and undamaged.
2. **Starting the Tool:** Depress the safety lock-off mechanism and then squeeze the variable speed trigger to start the grinder. The variable speed trigger allows for precise control over the RPM.
3. **Grinding Technique:** Apply light, even pressure to the workpiece. Allow the tool's speed to do the work. Avoid excessive force, which can lead to premature wear of the disc and tool, and potential kickback.
4. **Workpiece Security:** Always secure the workpiece firmly to prevent movement during grinding.
5. **Stopping the Tool:** Release the variable speed trigger to stop the grinder. Ensure the disc has come to a complete stop before setting the tool down.
6. **Cool Down:** For prolonged use, allow the tool to cool periodically to prevent overheating.

Important Safety Note: Always disconnect the air supply before changing accessories, performing maintenance, or when the tool is not in use.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your AIRCAT 6220 Angle Grinder:

- **Daily Lubrication:** Apply a few drops of high-quality pneumatic tool oil into the air inlet before and after each use. This lubricates the motor and extends tool life.
- **Air Filter Maintenance:** Regularly check and clean the air filter on your air compressor to ensure a clean air supply to the tool. Contaminants can damage the tool's internal components.
- **Cleaning:** Keep the tool clean and free of debris. Wipe down the exterior with a clean, dry cloth. Do not use harsh chemicals or solvents.
- **Inspect Air Hose and Fittings:** Periodically inspect the air hose and fittings for leaks, cracks, or damage. Replace any worn or damaged components immediately.
- **Storage:** Store the tool in a dry, clean environment when not in use.

Troubleshooting

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
Tool not starting or low power	◦ Insufficient air pressure ◦ Lack of lubrication ◦ Clogged air inlet/filter ◦ Damaged internal components	◦ Check air compressor and regulator settings (ensure 90 PSI). ◦ Add pneumatic tool oil to the air inlet. ◦ Clean air inlet screen or air filter. ◦ Contact authorized service center.
Excessive noise or vibration	◦ Worn bearings ◦ Loose components ◦ Improperly installed accessory	◦ Ensure accessory is securely fastened. ◦ Inspect tool for loose screws or parts. ◦ Contact authorized service center for internal inspection.
Air leakage	◦ Loose fittings ◦ Damaged O-rings/seals	◦ Tighten all air fittings. ◦ Contact authorized service center for seal replacement.

Specifications

Brand	AIRCAT
Model Number	6220
Product Dimensions	7"L x 2.5"W x 2.55"H
Style	Angled
Power Source	Air Powered

Color	Red
Item Weight	1.5 Pounds
Maximum Rotational Speed	15,000 RPM
Horsepower	0.5 HP
UPC	722470358718
Included Components	AirCat 6220: 2" Angle Grinder

Warranty and Support

The AIRCAT 6220 Angle Grinder comes with a **2-year warranty** on material and workmanship. For warranty claims, technical support, or service inquiries, please contact AIRCAT customer service through their official website or the retailer where the product was purchased. Please have your model number and proof of purchase ready when contacting support.

For more information, visit the official [AIRCAT Store on Amazon](#).

About AIRCAT Pneumatic Tools



Video: An overview of AIRCAT pneumatic tools, highlighting their power, reliability, ergonomic design, and patented silencing technology. This video showcases various AIRCAT tools in action, including drills, hammers, sanders, polishers, and impact wrenches.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question