

AIRCAT 5100-A-T

AIRCAT 5100-A-T .401-Inch Shank Composite Medium Stroke Air Hammer User Manual

Model: 5100-A-T | Brand: AIRCAT

1. IMPORTANT SAFETY INFORMATION

Read and understand all safety warnings and instructions before operating this tool. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

1.1 General Safety Rules

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- **Personal Safety:** Always wear appropriate personal protective equipment (PPE), including safety glasses with side shields, hearing protection, and gloves. Loose clothing, jewelry, or long hair can get caught in moving parts.
- **Tool Use and Care:** Do not force the tool. Use the correct tool for your application. Disconnect the air supply before making adjustments, changing accessories, or storing the tool.
- **Air Supply:** Ensure the air supply is clean, dry, and regulated to the specified pressure. Do not exceed the maximum operating pressure.
- **Maintain Awareness:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.

1.2 Specific Air Hammer Safety

- Always ensure the chisel is securely locked in the retainer before operating.
- Direct the chisel away from yourself and others.
- Avoid prolonged exposure to vibration. Take breaks and use anti-vibration gloves if necessary.
- Never point the air hammer at anyone, even when not connected to an air supply.

2. PRODUCT OVERVIEW

The AIRCAT 5100-A-T is a .401-inch shank composite medium stroke air hammer designed for various demolition and cutting tasks. It features a lightweight composite body, a quick-change chisel retainer, and a patented exhaust system for reduced noise and vibration.



Figure 2.1: The AIRCAT 5100-A-T Composite Medium Stroke Air Hammer.

2.1 Key Features

- **Composite Body:** Ergonomic design for comfort and reduced weight.
- **High Performance:** Delivers 3,000 blows per minute (BPM) for efficient operation.
- **Quiet Exhaust System:** Patented silencing technology reduces noise levels to 88 dBa.
- **Low Vibration:** Engineered for a low vibration level of 4.2 m/sec².
- **Quick-Change Retainer:** Heavy-duty ball-lock quick-change chisel retainer for secure and easy accessory changes.
- **.401-Inch Shank:** Compatible with standard .401-inch shank chisels.



Figure 2.2: Key features of the AIRCAT 5100-A-T, including low weight design, heavy-duty ball-lock quick change chisel retainer, multi-patented muffler system, and quiet exhaust system.



Figure 2.3: The air hammer provides 3,000 blows per minute for fast cutting action.

- **Multi-Patented Muffler System**
- **Extremely Low Noise Level of 88 dBA**
- **Low Vibration Level of 4.2 m/sec²**
- **High Performance and Low Weight**



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Figure 2.4: The tool features a multi-patented muffler system, extremely low noise level of 88 dBA, and low vibration level of 4.2 m/sec².

3. SPECIFICATIONS

Specification	Value
Brand	AIRCAT
Model Number	5100-A-T
Power Source	Air Powered
Shank Size	.401-Inch
Blows Per Minute (BPM)	3,000
Piston Stroke	2-5/8 inches

Specification	Value
Sound Level	88 dB
Vibration Level	4.2 m/sec ²
Item Weight	3.3 Pounds
Product Dimensions	10.5"L x 7"W x 2.5"H
Material	Composite and Metal
Warranty	2 Years

4. SETUP

4.1 Air Supply Connection

1. Ensure your air compressor is capable of providing the required air pressure and volume for the tool (typically 90 PSI).
2. Install an air line filter/regulator/lubricator (FRL) unit as close to the tool as possible. This ensures clean, dry, and lubricated air, which is crucial for the tool's longevity.
3. Connect the air hose to the tool's air inlet. Use thread sealant tape on all threaded connections to prevent air leaks.
4. Set the air pressure regulator to 90 PSI (6.2 bar) or as recommended for your specific application. Do not exceed the maximum operating pressure of 90 PSI.

4.2 Chisel Installation

1. Disconnect the tool from the air supply before installing or removing chisels.
2. Pull back the quick-change chisel retainer collar.
3. Insert the .401-inch shank chisel into the tool until it seats firmly.
4. Release the retainer collar, ensuring it snaps back into place to securely lock the chisel. Gently tug on the chisel to confirm it is locked.



Includes a heavy duty ball-lock quick change chisel retainer for added safety.

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Figure 4.1: The heavy-duty ball-lock quick-change chisel retainer ensures secure attachment of chisels.

5. OPERATION

Once the tool is properly set up and connected to the air supply, it is ready for operation.

1. **Grip:** Hold the air hammer firmly with both hands, maintaining a stable stance.
2. **Positioning:** Place the chisel tip against the workpiece at the desired angle.
3. **Activation:** Depress the trigger to start the hammering action. The tool will begin to deliver 3,000 BPM.
4. **Control:** Apply steady, controlled pressure to the tool. Allow the hammer to do the work; excessive force is not required and can lead to reduced efficiency or tool damage.
5. **Stopping:** Release the trigger to stop the hammering action.
6. **Workpiece Considerations:** Always secure the workpiece to prevent movement during operation. Be aware of potential kickback or material fragmentation.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your AIRCAT air hammer.

6.1 Daily Maintenance

- **Lubrication:** Add 5-10 drops of pneumatic tool oil into the air inlet before and after each use. If using an in-line oiler, ensure it is filled and functioning correctly.
- **Inspection:** Check the tool for any signs of damage, wear, or loose parts. Ensure the chisel retainer is operating smoothly.
- **Cleaning:** Wipe down the tool with a clean cloth to remove dirt and debris.

6.2 Air System Maintenance

- **Drain Compressor Tank:** Drain moisture from your air compressor tank daily to prevent rust and water contamination in the air lines.
- **FRL Unit:** Regularly check and drain the water trap in your FRL unit. Ensure the lubricator is supplying oil.

6.3 Storage

Store the tool in a clean, dry environment. Disconnect it from the air supply and apply a few drops of pneumatic tool oil to the air inlet before storing for extended periods.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your air hammer.

Problem	Possible Cause	Solution
Tool does not operate or has low power	Low air pressure Insufficient air volume Lack of lubrication Obstructed air inlet/hose	Check air compressor and regulator setting (ensure 90 PSI) Use a larger diameter air hose Add pneumatic tool oil Clear any obstructions in the air line or inlet
Air leaks from tool	Loose fittings Worn O-rings/seals	Tighten all air line connections Contact authorized service center for seal replacement
Chisel not held securely	Retainer not fully engaged Damaged retainer Incorrect chisel shank size	Ensure retainer collar snaps back into place Inspect retainer for damage; replace if necessary Use only .401-inch shank chisels
Excessive vibration	Worn internal components Improper chisel installation	Contact authorized service center Re-install chisel, ensuring it is fully seated and locked

For issues not listed or if solutions do not resolve the problem, contact AIRCAT customer support.

8. WARRANTY INFORMATION

The AIRCAT 5100-A-T Air Hammer is covered by a **2-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service.

For full warranty terms and conditions, please refer to the official AIRCAT warranty documentation or contact AIRCAT customer support.

9. SUPPORT & CONTACT

For technical assistance, parts, or service inquiries regarding your AIRCAT 5100-A-T Air Hammer, please contact AIRCAT customer support.

You can find more information and contact details by visiting the official AIRCAT website or their store on Amazon:

[Visit the AIRCAT Store on Amazon](#)

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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