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› AIRCAT 1680-A 3/4-Inch Impact Wrench User Manual

AIRCAT 1680-A

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Model: 1680-A | Brand: AIRCAT

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your AIRCAT 1680-A 3/4-Inch Impact Wrench. The AIRCAT 1680-A is a pneumatic tool designed for demanding applications, featuring a twin hammer mechanism, patented silencing technology, and an ergonomic handle for user comfort. Please read this manual thoroughly before using the tool.



Figure 1: The AIRCAT 1680-A 3/4-Inch Impact Wrench, a robust pneumatic tool.

2. SAFETY INFORMATION

Always observe general safety precautions when operating power tools. Failure to do so may result in serious injury or property damage.

- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and gloves.
- Ensure the air supply is disconnected before performing any adjustments, maintenance, or when the tool is not in use.
- Maintain a secure grip on the tool during operation.
- Keep work area clean and well-lit. Cluttered or dark areas invite accidents.
- Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.

- Use only accessories and attachments recommended by the manufacturer.
- Never point the tool at yourself or others.

3. SETUP

Proper setup ensures optimal performance and safety.

1. **Air Supply Connection:** Connect the impact wrench to a clean, dry, regulated air supply. A 3/8-inch air hose and a compressor with sufficient capacity are recommended for optimal performance. Ensure the air pressure does not exceed the maximum recommended pressure (typically 90 PSI, refer to specifications).
2. **Lubrication:** Before each use, apply a few drops of pneumatic tool oil into the air inlet. This lubricates the internal components and extends tool life.
3. **Socket Attachment:** Select the appropriate 3/4-inch drive impact socket for your application. Ensure the socket is securely attached to the anvil.



Figure 2: Key features of the AIRCAT 1680-A, including the twin hammer mechanism, compact design, patented AIRCAT grip, combined power management, and forward/reverse switch, and patented silencing technology.

4. OPERATING INSTRUCTIONS

Follow these steps for effective operation of your impact wrench.

1. **Direction Control:** The tool features a combined power management and forward/reverse switch. Adjust this switch to select the desired direction (tightening or loosening).
2. **Power Adjustment:** If available, use the power management dial to adjust the torque output for specific applications. The tool provides up to 1,400 ft-lbs of maximum torque and 1,600 ft-lbs of loosening torque.
3. **Application:** Place the socket firmly onto the fastener. Depress the trigger to begin operation. Release the trigger to stop.
4. **Ergonomics:** The ergonomic handle is designed for user comfort during extended use. Maintain a firm grip to control the tool effectively.
5. **Noise Reduction:** The patented silencing technology reduces operational noise levels to 89 dBA, enhancing the user experience.



Features a twin hammer mechanism designed for the toughest work conditions.

AIRCAT

Figure 3: The twin hammer mechanism of the AIRCAT 1680-A is engineered for demanding work conditions, providing consistent and powerful impacts.

AIRCAT®

**More
power.
Half the
noise.**



Figure 4: The AIRCAT 1680-A features patented silencing technology, significantly reducing operational noise compared to conventional impact wrenches.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your AIRCAT impact wrench.

- **Daily Lubrication:** Add 5-10 drops of pneumatic tool oil into the air inlet before each use.
- **Air Filter:** Ensure your air compressor has a functioning air filter to prevent moisture and debris from entering the tool.
- **Cleaning:** Keep the tool clean and free of dirt and grime. Use a soft cloth to wipe down the exterior.
- **Anvil Inspection:** Regularly inspect the anvil and socket retention mechanism for wear or damage. Replace worn parts as necessary.
- **Fastener Check:** Periodically check all external fasteners for tightness. Loose fasteners can affect performance and safety.
- **Air Leaks:** Listen for air leaks during operation. Minor leaks can often be resolved by tightening screws or replacing worn O-rings/gaskets.

6. TROUBLESHOOTING

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Tool does not operate or has low power	Insufficient air pressure or volume; lack of lubrication; clogged air inlet filter; worn internal components.	Check air supply pressure (recommended 90 PSI) and compressor capacity. Ensure air hose is adequately sized (3/8-inch minimum). Add pneumatic tool oil to the air inlet. Clean or replace air inlet filter. If problem persists, professional service may be required.
Air leaks from tool body	Loose fasteners; worn O-rings or gaskets; damaged housing.	Tighten all external screws. Inspect and replace any damaged O-rings or gaskets. If housing is damaged, discontinue use and seek professional repair.
Excessive vibration	Worn or damaged anvil/hammer mechanism; loose components.	Inspect the anvil and internal components for wear. Ensure all parts are securely fastened. Professional inspection is recommended.

7. SPECIFICATIONS

Technical details for the AIRCAT 1680-A 3/4-Inch Impact Wrench.

- **Model Number:** 1680-A
- **Drive Size:** 3/4-Inch
- **Maximum Torque:** 1,400 ft-lbs (1898 Nm)
- **Loosening Torque:** 1,600 ft-lbs (2170 Nm)
- **Free Speed:** 4,500 RPM
- **Operating Pressure:** 90 PSI (recommended)
- **Air Inlet:** 3/8-Inch NPT
- **Minimum Hose Size:** 3/8-Inch
- **Noise Level:** 89 dBA (with patented silencing technology)
- **Material:** Molybdenum Steel
- **Item Weight:** 12.5 Pounds
- **Product Dimensions:** 8.9 x 3.7 x 9.2 inches
- **Included Components:** 1 black and silver 3/4" drive impact wrench
- **UPC:** 722470323358



Figure 5: The AIRCAT 1680-A delivers significant torque, providing 1899 Nm (1400 ft-lbs) maximum torque and 2170 Nm (1600 ft-lbs) of loosening torque.

8. WARRANTY

The AIRCAT 1680-A 3/4-Inch Impact Wrench comes with a **2-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 specific terms and conditions, refer to the warranty documentation provided with your product or contact AIRCAT customer support.

9. SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please visit the official AIRCAT website or contact their customer service department. You can also find additional information and products at the [AIRCAT Store on Amazon](#).

10. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found for this product in the provided data. Please refer to the text and images for detailed instructions.

