

IMPACT WRENCHES

MORE POWER - LESS NOISE



AIRCAT® offers the most loosening torque in our impact wrench, while only creating 86 dBA of sound, compared to the industry average of 112 dBA. Most

of the Pneumatic Tool industry measures tool performance on power and durability, which AIRCAT® ranks in the top 2 in both categories amongst users.

AIRCAT® offers a large selection of impact wrenches from 3/8" to 1" drive ranging from 80 ft-lb. to 2300 ft-lb. of torque.



1" STRAIGHT

1992

1" STRAIGHT IMPACT WRENCH WITH 8" EXTENDED ANVIL

- Provides 1,800 ft-lb maximum torque and 2,000 ft-lb of loosening torque
- Low maintenance pin-less hammer provides ultimate reliability and added hitting power
- Features enlarged inner cavity of rotating "D" handle grip
- Combined forward/reverse and power management switch
- Triple heated Ni-Cr-Mo alloy steel hammer mechanism parts and anvil provides ultimate reliability
- Combined through hole and friction ring socket retainer



1992-1

1" STRAIGHT IMPACT WRENCH

1994

1" SUPER DUTY STRAIGHT IMPACT WRENCH WITH 8" EXTENDED ANVIL

- Provides 2,300 ft-lb maximum torque and 2,500 ft-lb of loosening torque
- Low maintenance pin-less hammer provides ultimate reliability and added hitting power
- Combined forward/reverse and power management switch
- Triple heat treated alloy steel hammer cage and anvil
- Rugged construction with reliable bolt-on assist side handle
- Hammer case can be repositioned for the side handle to be on right or left side
- Brushed aluminum motor housing
- AIRCAT's most reliable 1" Impact Wrench
- Combined through hole and friction ring socket retainer



SPECIFICATIONS

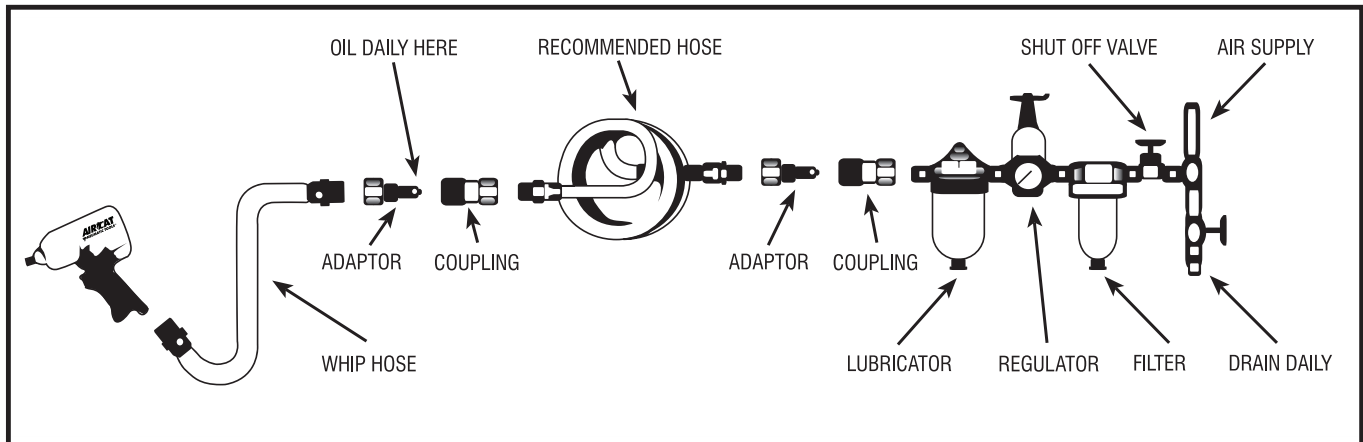
Model No.	Free Speed (RPM)	Bolt Capacity (in.)	Square Drive (in.)	Impacts Per Minute	Max. Torque (ft-lb) @90 psi	Weight (lbs.)	Length (in)	Air Cons. (CFM)	Rec. Hose Size (in.)	Air Inlet NPT (in.)
1992	5,000	1-1/4	1 x 8	1600	1800	26.0	22.0	12	1/2	1/2
1992-1	5,000	1-1/4	1	1600	1800	23.2	15.5	12	1/2	1/2
1994	4,500	1-1/4	1 x 8	1100	2300	35.0	26.0	16	1/2	1/2

TECHNICAL INFORMATION

Air Supply

Tools of this class operate on a wide range of air pressure. It is recommended that air pressure of these tools measures 90 PSI at the tool while running free. Higher pressure and unclean air will shorten the tool's life because of faster wear and may create a hazardous condition and void the warranty. Water in the air line will cause damage to the tool. Drain the air tank daily. Clean the air inlet filter screen on at least a weekly schedule.

The recommended hookup procedure can be viewed in the illustration below. The air inlet used for connecting air supply has standard 1/4" NPT for smaller tools and 3/8" NPT for larger tools as specified in the tool manual. Line pressure should be increased to compensate for unusually long air hoses (over 25 feet). Minimum hose diameter should be 3/8" I.D. for smaller tools and 1/2" for larger tools as specified in the tool manual.



Use of Accessories with Air Tools

When selecting the correct accessory to use with your air tool(s) the following points must be carefully checked:

- The accessory is rated to run at or above the maximum rated speed of the air tool that you plan to use it on.
- Air tool Manufacturers specify these speeds in their catalogs and operator instructions.
- Accessories used on abrasive tools, impact wrenches, nut runners, ratchets, air hammers and scaling hammers must be rated for use with the relevant air tool.
- Any accessory used should be of the correct size and design for the air tool(s) that you plan to use it with.
- Worn accessories should not be used and accessories should not be modified in any way.
- Mounting and fitting instruction for any accessory to be used on an air tool must be carefully followed at all times.
- Use of worn or incorrect accessories may reduce tool performance, create excessive tool wear and can be hazardous
- Always disconnect the tool from the air supply when changing of fitting accessories, guards or other fittings.

Operator Training for Air Tool; Air Tool Accessory and Compressed Air Use

- All operators should be trained in the correct installation and use of the air tool/s that they are required to operate.
- All operators should be trained to understand the safety instructions provided by the air tool manufacturer, for each
- Air tool that they are required to operate.
- All operators should be trained in the safe use of compressed air and the use of associated air hoses, connectors and air tool accessories.
- All operators should be trained to operate an air tool and accessories safely and correctly on the application that you plan to use them for.
- Operators or service personnel should be trained to ensure that the air installation, lubricators, filters, regulators, hoses and air nipples and connectors are checked regularly to ensure that they meet the requirements set on a continuous basis.

How To Maximize Your Tools Performance And Working Life.

Compressed air is a misunderstood power source as unlike electricity that is constant and maintains constant horsepower, as compressed air drives a motor horsepower can vary dependent on how the tool is set up. The tips below will ensure that you maximize the horse power of the air motor and torque level of your impact wrench:

Air tool manufactures measure the impact wrench rated torque levels stated in there catalogs and rated horse power and RPM of the air tools stated in their catalogs based on 90 PSI are pressure entering the tool at the tool air inlet.

If the air pressure is set at the compressor or at an in-line pressure regulator at 90 PSI by the time that the air reaches the tools air inlet; the pressure will have dropped. Typically each 25' between the air pressure gauge and the tool with cause a 15% air pressure drop at the tool. In addition any restriction added to a hose hook-up, like a connector that reduces the inside diameter of the air connection will cause a severe pressure drop at the tool. Then any air leak at a connection point between the compressor and the tool will reduce air pressure. Use of the wrong air hose ID size will typically reduce tool performance by 40%-50%. Use of very small compressors to run air tools will dramatically reduce performance.

Tips To Maximize Tool Performance:

- Always use the air hose ID size recommended by the tool manufacturer.
- For any impact wrench up to 1/2" drive and other air tools always use a 3/8" ID air hose.
- For any impact wrench 3/4" and 1" drive always use a 1/2" ID air hose.
- Reduce the hose length to the shortest length practical for use, as a guide if a 25' air hose is used the pressure at the in-line regulator should be set at 105-110 PSI this will deliver 90 PSI to the tool
- Ensure that thread tape is used on all connections from the compressor to the tool
- Do not use connectors or reducers in the air hose hook-up.
- For impact wrenches up to 1/2" drive and most other air tools a compressor with a minimum 20 gallon tank and 5 HP motor should be used. For 3/4" & 1" impact wrenches, sanders and heavy grinders a compressor with a minimum 40 gallon tank and 8 HP motor should be used. Note that all pro auto service shops have installed compressors that well exceed the above minimums.

Tips To Maximize Tool Life:

An air motor is no different than the internal combustion engine in your car, they need oil. Inline lubricators are best. If not installed always add a few drops of air tool oil into the tools air inlet each day before use, and most importantly at the end of the day add a few drops of air tool oil, run the tool for a few seconds before storing overnight.

In certain conditions compressed air generates water vapor that if entering the tool will corrode the internal motor parts, moisture traps should be fitted in to your air supply system.

Impact wrench hammer mechanisms require grease, normally it is adequate to replace the grease at the tools service interval or after six months use.

AIRCAT WARRANTY



AIRCAT and NITROCAT® air tools are warrantied to be free from defects in material and workmanship for 2 years from date of purchase. We will repair or replace; at our option any defective part or unit which proves to be defective in material or workmanship during this 2 year period.



VIBROTHERM DRIVE® air tools and our low weight 1" impact series models (1991, 1991-1 and 1870-P) are warrantied to be free from defects in material and workmanship for 3 years from date of purchase. We will repair or replace; at our option any defective part or unit which proves to be defective in material or workmanship during this 3 year period.

The foregoing obligation is AIRCAT and Florida Pneumatic's sole liability under this or any implied warranty, under no circumstances shall it be liable for any incidental or consequential damages.

This warranty applies to the tool only. This warranty does not apply to any attached accessories/ consumable products; such as drill chucks, sander backing pads, air hammer retainers and chisels or "kit" accessories or any other accessory included with the tool.

Any repair required due to normal wear and tear, abuse, misuse, modification of the tool or repair attempts (by other than an AIRCAT® or Florida Pneumatic Authorized Service Center) are not covered by this warranty.

Return your tool to an AIRCAT® or Florida Pneumatic Authorized Service Center freight prepaid. Be sure to include your name, address, copy of purchase with date and description of the suspected defect.

AIRCAT® whose policy is continued product improvement reserves the right to make changes in design or construction at any time without incurring any obligation on tools previously sold.

INDUSTRY ASSOCIATIONS

