



AIR IMPACT WRENCH

ITEM # 44421



OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL. KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATION, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL, OR THE MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO SERIAL NUMBER

FOR QUESTIONS, PLEASE CALL CUSTOMER SERVICE: 909.628.4900

SAFETY WARNINGS

WARNING

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in injury and/or property damage. Save all warnings and instructions for future reference.

The warning and safety instructions in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when operating or cleaning tools and equipment. Always contact your dealer, distributor, service agent or manufacturer about problems or conditions you do not understand before operating the product. Power tool means two types of equipment: one with power cord and directly powered by external power supply and another without power cord and powered by battery.

- Keep children away from the work area. NEVER allow children to handle power tools.
- **DO NOT** use a tool that is leaking air, has damaged or missing parts, or that requires repairs. Before use, verify that all screws are tightened.
- **NEVER** attempt to override the safety features of this tool.
- **DO NOT** use oxygen or any other combustible or bottled gas to power air powered tools. Failure to observe this warning can cause an explosion and serious personal injury or even death. Use only the compressed air to power air powered tools. Use a minimum of 25' of hose to connect the tool to the compressor.
- Risk of electric shock: Do not expose the tool to humid or wet environments. Store it indoors only.
- Compressor must be grounded. Do not use any grounding adaptors.
- Risk of personal injury: Do not direct compressed air from the air hose toward anyone.
- Do not adjust the pressure switch of safety valve for any reason. They have been preset at the factory for this compressor's maximum pressure. Tampering with the pressure switch or safety valve may cause personal injury or property damage.
- Risk of burns: The pump and manifold generate high temperatures, in order to avoid burns or other injuries, do not touch the pump, manifold, or transfer tube while the compressor is running. Allow all parts to cool before handling or servicing.
- Confirm the regulator is adjusted so that the compressor outlet pressure is set lower than the maximum operating pressure of the tool. Before starting the compressor, pull the ring on the safety valve to make sure it moves freely. Drain water from the tank after each use.
- Do not weld or repair the tank. Relieve all pressure in the hose before removing or attaching accessories.
- **ALWAYS** ensure the work piece is firmly secured, leaving both hands free to control the power tool.
- **ALWAYS** keep your air tool clean and lubricated. Daily lubrication is essential to avoid internal corrosion.
- **DO NOT** overload the tool. Allow the tool to operate at its optimum speed for maximum efficiency. Excessive overload can cause the tool casing to split and may lead to excessive wear on moving parts.
- Use only lightweight coil hoses for connecting the tool to the compressor coupling. Do not fit quick change couplings onto the tool. Vibration can lead to damage or failure of the coupling.
- **ALWAYS** ensure the tool has stopped before connecting it to the air supply.
- Verify the grinding accessories that are used with this tool are rated at or above the tool's speed rating (8500RPM). Failure to properly match the accessory to the tool could result in serious injury.
- Ensure the accessories are correctly and securely fastened before connecting the tool to air supply.
- Locate the compressor in a well ventilated area. For cooling at a minimum of 12" away from the nearest wall.

SAFETY WARNINGS

- Protect the air hose and power cord from damage and puncture. Inspect them for weak or worn spots and replace them as necessary.
- ALWAYS wear hearing protection when using the air compressor. Failure to do so may result in hearing loss.
- Do not carry the compressor while it is running.
- Do not operate the compressor on a rooftop or in an elevated position that may cause the unit to tip or fall.
- Keep proper balance at all times when using the Impact Wrench.
- Do not wear jewelery or loose clothing when operating the tool.
- Inspect the tool consistently to ensure free movement of the trigger, safety mechanisms and springs.
- Keep the work area well lit and clear of obstructions.
- Handling and storing oil: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing in. Store in a tightly closed container in a cool, dry area away from flammables.
- Do not operate or store the tool in freezing temperatures.
- Disconnect the tool from the air supply and turn off the compressor before changing accessories, performing maintenance or when the tool is not in use. Failure to comply may result in injury and damages.
- Use safety goggles and ear protection when operating the tool/compressor and verify that others in the work area are also wearing safety equipment. Air powered tools are loud and the sound can cause hearing damage.
- Verify that all the connections in the air supply system are sealed in order to prevent air from leaking. Failure to comply will result in moderate injury or damage to the equipment.
- Drain the compressor tank daily. Water in the air supply line will damage the tool.
- Clean the air inlet and the filter weekly to avoid damage to the tool.
- Do not use oxygen or any other combustibile or bottled gas to power the tool.
- Keep hose away from heat, oil and sharp edges. Check hose for wear and tear and ensure that all connections are secure. Failure to comply could lead to serious injury.

Square drive head:	1/2"(13mm)	Air hose required:	3/8"ID
Capacity Bolt size:	5/8"(16mm)	Air inlet:	1/4" ID(6.35mm)
SPEED (NO LOAD):	8500RPM±10%	A weighted sound pressure level:	106.6dB (A)
Working torque:	500 FT-LB	Sound power level:	94.6dB (A)
SCFM Requirement:	5cfm(142 l/min)	Vibration in handle:	5.99m/s ² , K=1.1 m/s ²
Working pressure:	90PSI(6.3Bar)	Weight:	1.45kgs(3.19lbs)

SCFM: Standard Cubic Feet per Minute (the volumetric flow rate of a far corrected to standardized conditions of temperature and pressure).

NPT: National Pipe Thread

Environmental Responsibilities

Please recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

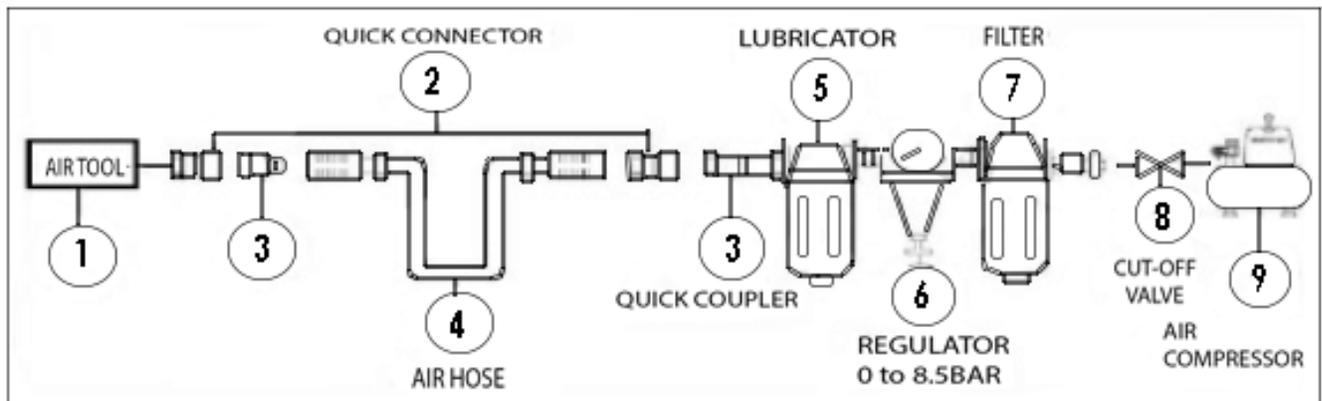
SAVE THESE WARNINGS.

OPERATION



AIR SYSTEM

- Always use a clean, dry, regulated, compressed air at 4 to 7bar (60 to 100PSI)
- Do not exceed the maximum and minimum pressure. Operating the tool at the wrong pressure. Operating the tool at the wrong pressure (too low or too high) will cause excessive noise or rapid wear.
- It is recommended that a filter-regulator-lubricator be used and be located as close to the tool as possible.
- If a filter-regulator-lubricator is not installed, place up to 6 drops of pneumatic tool oil into the air inlet plug before each use.
- If a filter-regulator-lubricator is installed, keep the air filter clean. A dirty filter will reduce the air pressure to the tool, which will cause reduction in power, efficiency and general performance.



LOADING AND OPERATION

1. Plug in the compressor, turn it on and set the pressure regulator to 90PSI. Attach one end of the air hose to the compressor and the other end of the air hose to the tool. Use plumber's tape to avoid an air leak.
2. Place and lock the socket over the square drive of the air-powered impact wrench.
3. Place the socket over a nut to be removed or installed and press the trigger at the top of the handle to operate to tool
4. For reverse rotation, press the speed control knob on the left side of the tool. For forward rotation, press the speed control knob on the right side of the tool. Rotate the speed control knob on the left side of the tool during reverse rotation to control the speed of the air flow as required. Rotate the speed control knob on the right side of the tool during forward rotation to control the speed of the air flow as required.
5. After using the tool, disconnect the air hose from the tool.

MAINTENANCE

- Disconnect the tool from the air supply before changing accessories or servicing.
- Use only recommended and properly rated replacement parts.
- Repairs must be performed by a qualified technician.

Maintenance required	Description	Tools or materials required	Maximum service interval		
			Each use or every 2 hrs	Monthly	As needed
General inspection-free movement	Trigger, spring, safety mechanism	None	✓		
In-depth inspection	Worn or broken parts			✓	✓
Replace worn or broken parts					✓
Lubrication	See below	Pneumatic tool oil	✓		

- **Lubrication:** If the Air-powered impact wrench and the compressor are not equipped with an in-line lubrication system, place up to 6 drops of pneumatic tool oil into the air inlet before each work day or after every 2 hours of continuous use, depending on the characteristics of work piece.
- Air-operated tools must be inspected periodically, and worn or broken parts must be replaced in order to keep tools operating safely and efficiently.
- Inspect and replace worn or damaged O-rings, seals, etc. Tighten all screws and caps frequently in order to help prevent personal injury.
- Loss of power or erratic action may be due to the following
 - Excessive drain in the air line.
 - Moisture or restriction in the air pipe.
 - Incorrect size or type of hose connector. Check the air supply and follow instructions.
 - Grit or gum deposits in the tool may also reduce performance.
- Inspect the trigger, the spring, and the safety mechanism for free movement on a regular basis in order to ensure that the safety system is fully functional.
- Verify that no part is loose or missing and that no part is stuck or jammed.
- Disconnect the tool from the air supply, clean, and store it in a safe, dry, and childproof location, when tool is not in use.
- When temperatures are below freezing, keep tools as warm as possible using any safe, convenient method.
- Check the air supply for correct size and type of hose connectors. To avoid loss of power or erratic action, ensure that there is no additional drain on the air line and no moisture or restriction in the air pipe.



Storage:

- Apply an ample amount of lubrication before storing the tool.
- Run the tool for approximately 30 seconds after lubricating, in order to ensure that the lubrication is uniformly distributed throughout the tool.
- Store the tool in a clean and dry environment.

TROUBLESHOOTING

The following chart lists common issues and solutions. Please read it carefully and follow all instructions closely.



WARNING!

Potential hazard that will result in serious injury or loss of life.

- If any of the following symptoms appear while the tool is in use, turn it off and disconnect it from the air supply immediately. Failure to heed this warning will result in serious personal injury.
- Disconnect the tool from the air supply before making any adjustments.
- Repairs must be performed by a qualified service technician only.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Tool runs at normal speed but loses under load	<ul style="list-style-type: none"> ■ Motor parts worn. ■ Cam clutch worn or sticking due to lack of lubricant. 	<ul style="list-style-type: none"> ■ Lubricating clutch housing. ■ Check for excess clutch oil. Clutch cases need only be half full. Overfilling can cause drag on high speed clutch parts, ie. a typical oiled/lubricated wrench requires 1/2 ounce of oil. ■ GREASE LUBRICATED:NOTE: Heat usually indicates insufficient grease in chamber. Severe operating conditions may require more frequent lubrication.
Tool runs slowly. Air flows slightly from exhaust	<ul style="list-style-type: none"> ■ Motor parts jammed with dirt particles ■ Power regulator in closed position ■ Air flow blocked by dirt. 	<ul style="list-style-type: none"> ■ Check air inlet filter for blockage. ■ Pour air tool lubricating oil into air inlet as per instructions. ■ Operate tool in short bursts quickly reversing rotation back and forth where applicable. ■ Repeat above as needed.
Tools will not run. Air flows freely from exhaust	<ul style="list-style-type: none"> ■ One or more motor vanes stuck due to material build up. 	<ul style="list-style-type: none"> ■ Pour air tool lubricating tool into air inlet. ■ Operate tool in short bursts of forward and/or reverse rotation where applicable. ■ Tap motor housing gently with plastic mallet. ■ Disconnect supply. Free motor by rotating drive shank manually where applicable
Tool will not shut off	<ul style="list-style-type: none"> ■ 'O' rings throttle valve dislodged from seat inlet valve. 	<ul style="list-style-type: none"> ■ Replace O-rings or return to service center.

Note: Repairs should be carried out by a qualified person.

OF NOTE

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

The material in this manual is for informational purposes only. The product(s) it describes are subject to change without prior notice, due to the manufacturer's continuous development program. Stark Tools makes no representations or warranties with respect to this manual or with respect to the products described herein. Stark Tools shall not be liable for any damages, losses, costs or expenses, direct, indirect or incidental, consequential or special, arising out of, or related to the use of this material or the products described herein.

Questions, issues or missing parts?

Before returning to your retailer, our customer service team is here to help.



Call Us: 909.628.4900

Email Us: info@starktoolsusa.com

Hours of Operation: 9am - 3pm PST Monday - Friday

MADE IN CHINA