

Operation Manual

Air Impact Wrench

61134



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

Important safety instructions

Instructions pertaining to a risk of fire, or injury to persons.

WARNING!

- Keep the work area clean and well lit. Cluttered benches and dark areas increase risk of electric shock, fire and injury to persons.
- Do not operate tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep bystanders, children, and visitors away while operating the tool. Distractions may result in personal injury and/or injury of others.

Personal safety

- Always wear eye protection. Operator and others within work area should always wear approved safety goggles with side shields. Eye protection is used to guard against flying fasteners and debris, which may cause severe eye injury.
- Always wear hearing protection when using the tool. Extended exposure to high intensity noise may cause hearing loss.
- Use safety equipment. A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions.
- Do not wear loose fitting clothing or jewellery. Use a helmet for long hair. These items can get caught in moving parts, causing serious personal injury.
- Stay alert, pay attention to what you are doing, and never operate the tool while being tired or under the influence of drugs, alcohol, or medicine. A moment of inattention while operating the tool increases the risk of injury to persons.
- Remove adjusting keys and wrenches before switching the tool on. A wrench or a key that is left attached to a rotating part of the tool increases the risk of injury to persons.
- Always keep proper footing and balance. Do not use on a ladder or an unstable support. Proper footing and balance enable better control of the tool in unexpected situations.
- Make sure the hose is free of obstructions or snags. Entangled or snarled hoses can cause loss of balance or footing and may become damaged resulting in possible injury.
- Do not attach the hose or tool to your body. Attach the hose to the structure to reduce the risk of loss of balance if the hose shifts.
- Avoid unintentional starting. Be sure the switch is off before connecting the air supply. Do not carry the tool with your finger on the switch or connect the tool to the air supply when switched on.
- Wash hands after handling.

Safety of use and care of the tool

- Get to know this tool. Read the manual carefully, learn its application and limitations, as well as the specific potential hazards related to this tool.
- Do not force the tool. Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which it has been designed for.
WARNING! Disconnect the tool from the air source before making any adjustments, changing accessories or before storing the tool. Such precautionary measures reduce the risk of injury to persons.
- Check for misalignment or binding of moving parts, breakages and any other conditions that may affect the tool in its operation and safety. Damaged tools must be repaired before using



them. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.

- Store the tools in a secure place when not in use and keep them out of the reach of children and other untrained persons. A tool is dangerous in the hands of untrained users.
- A work piece held by hand or against the body is unstable, which may lead to a loss of control.
- Keep the tool and its handle dry, clean, and free from oil and grease. Always use a clean cloth when cleaning it. Never use brake fluids, gasoline, petroleum-based products, or any strong solvents to clean your tool.
- Do not use the tool as hammer.
- Never use gasoline or flammable liquids to clean the tool. Never use the tool in the presence of flammable liquids or gases. Vapours can be ignited by a spark and cause an explosion that will result in death or serious personal injury.
- Do not remove or manipulate the trigger. Never cause the trigger lock to become inoperable. Do not operate any tool which has been modified in any way. Serious personal injury or even death can be the result.
- Never use the tool if the switch does not work. Any tool that cannot be controlled by the switch is dangerous and must be repaired before using it again.
- Always fit the tool with a fitting or hose coupling on or near the tool so that all compressed air is discharged at the same time when the fitting or hose coupling is disconnected. Do not use a check valve or any other fitting that allows the air to remain within the tool. Serious personal injury or even death might be the result.
- Never carry the tool by the air hose or pull the hose to move the tool away from a compressor. Keep hoses away from heat, oil, and sharp edges. Replace any hose that is damaged, weak, or worn. Otherwise, this might result in personal injury or damage to the tool.
- Do not drop or throw the tool. Dropping or throwing the tool can result in damage that will make the tool unusable or unsafe. If the tool has been dropped or thrown, examine it closely for bent, cracked or broken parts or any air leaks. If the tool has any damages, it must be repaired before being used again to avoid taking serious injuries.
- Clean and check all air supply hoses and fittings before connecting the tool to an air supply. Replace any damaged or worn hoses or fittings. This will reduce tool performance or its durability.
- Do not use the tool if it leaks air or does not function properly.
- Do not operate the tool if it does not contain a legible warning label.

Safety of tool service

- Use only accessories that are allowed by the manufacturer.
- When servicing a tool, only use original spare parts.
- Only use supplied lubricants specified by the manufacturer.
- Tool service must only be performed by the manufacturer or an authorized service partner.

Safety of operation

- The amount of actual torque may vary depending on the cleanliness and condition of threads and other factors.
- The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. Always be aware and cautious while working with the tool.
- Only use it with accessories that are rated to handle the forces exerted by this tool during operation. Other accessories which are not designed for the generated forces may break and forcefully launch pieces.
- Attach all accessories properly to the tool before connecting the air supply. A loose accessory may detach or break during operation.
- Obey the manual for the air compressor used with this power tool.
- Install an in-line shut-off valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.
- Use this tool with both hands only. Using tools with only one hand can result in loss of control.
- Do not lay down the tool until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- Always handle the tool with care:



- This tool is a working implement; only use it as such.
- Never pull the trigger unless nose is directed toward the work.
- Keep others in a safe distance from the tool while the tool is in operation as accidental actuation may occur possibly causing injury.

Safety of air supply and connections

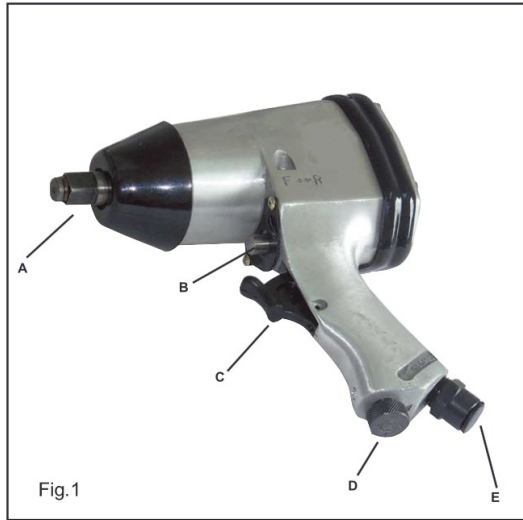
- Do not use any type of reactive gases like oxygen carbon dioxide and combustible gases as a power source. Use filtered, lubricated, regulated compressed air only. Use of a reactive gas instead of compressed air may cause the tool to explode which will cause death or serious personal injury.
- Only use a pressure-regulated compressed air source to limit the air pressure supplied to the tool. The regulated pressure must not exceed 90 psi. If the regulator fails, the pressure must not exceed 90 psi. The tool could explode which will cause death or serious personal injury.
- Always disconnect air source:
 - before making adjustments;
 - when servicing the tool;
 - when the tool is not in use;
 - when moving to a different work area as accidental actuation may occur causing injury.
- Never connect the tool to an air source that may exceed 90 psi. Over pressurizing the tool may result in bursting, abnormal operation, breakage of the tool as well as serious personal injury. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.

Technical specifications and accessories

Square drive (inch)	Idle speed (1/min)	Max. torque (Nm)	Air consumption (1/min)	Air inlet (inch)	Max. air pressure (bar)
1/2	7000	320 (236.02 ft-lb)	140 (5 cfm)	1/4	6 (87.02 psi)

- 1× impact wrench
- 1× quick coupling
- 1× oiler
- 1× extension
- 1× 4 mm hexagon socket wrench
- 1× transport case
- 10× sockets

Main components of 1/2" air impact wrench

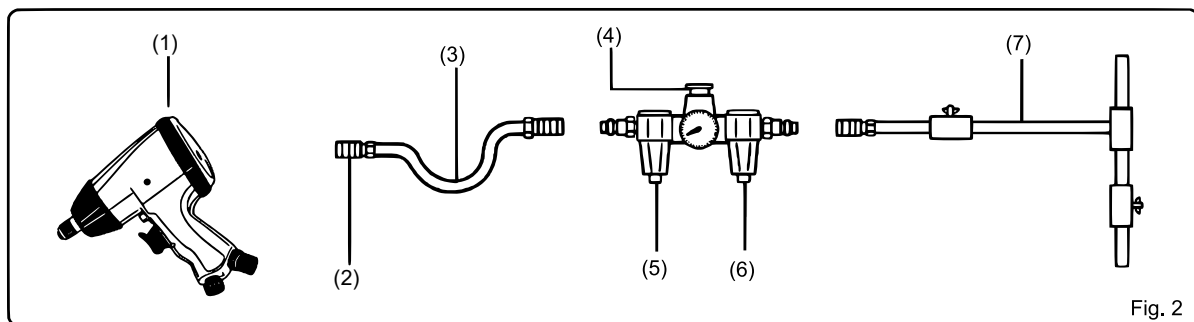


Letter	Name
A	Anvil
B	Control valve
C	Trigger
D	Air regulator
E	Air inlet

Operating procedures

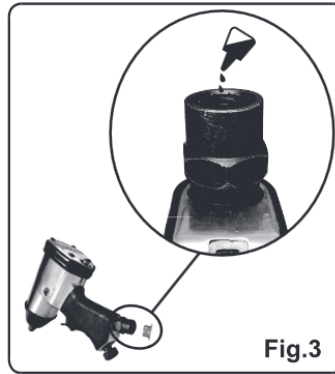
Setting up the air source

- The 1/2" air impact wrench is designed to operate on clean, dry, compressed air, regulated at 90 psi. The preferred system would include a filter, a pressure regulator and an automatic oiler located as close to the tool as possible. Within 15 feet (4.5 m) is ideal. Do not use bottled air or gases (see Fig. 2).



Nº	Name	Nº	Name
1	Air impact wrench	5	Lubricator
2	Quick coupling	6	Filter
3	Air hose	7	Air inlet
4	Regulator		

All compressed air contains moisture and other contaminants that can harm the internal components of the tool. An air filter will remove most of these and significantly extend the life of the tool. Ensure the in-line oiler has sufficient oil. If an in-line oiler is not available, place 2 drops of oil into the air inlet of the tool at the beginning of each workday. More than this will be expelled from the exhaust of the tool during using (Fig. 3).



- **Air fitting:** The ½" air impact wrench should be equipped with a ¼" NPD male quick connector (not included). To prevent accidental cycling even though disconnected, the tool must always be connected to the air supply in a way that all air pressure within the tool is released when the coupling is disconnected.

Caution!

- All air pipe components (including hoses, pipe, connectors, filters, regulators etc.) must be rated for a working pressure of 90 psi.
- Disconnect the tool from the air supply before performing maintenance, leaving the work area, moving the tool to another location, or handing it to another person.

Preparing the tool

- Drain water from the air compressor tank and any condensation from air lines. (Please refer to the operation manual of the air compressor)
- Lubricate the tool. (Please refer to the maintenance section in this manual)
- Select the necessary impact sockets. (The sockets must match the size of the drive on the air impact wrench.)
- Connect air impact wrench to the air source using the recommended hose size.

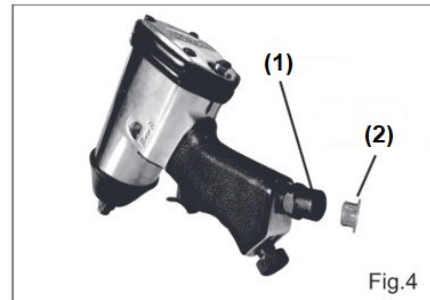
Caution!

- Always keep the tool pointed away from yourself and any other person.
- Never use a tool that leaks air or needs repair.

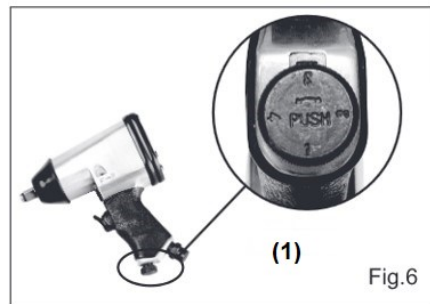
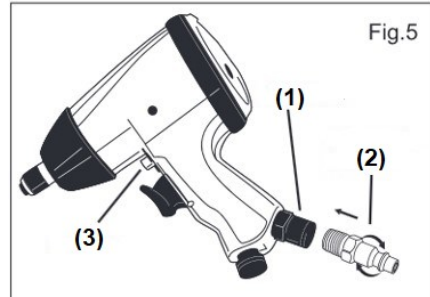
Operating the tool

1. Remove plastic air inlet protective cap **(2)** from air inlet **(1)** as shown in Fig. 4.
2. Prepare a ¼" male plug (not included) by applying sealant tape to the threading, wrapping clockwise. Screw threaded male air plug **(2)** by hand into air inlet **(1)** as shown in Fig. 5 and tighten it with a wrench (not included) for an airtight connection.

Note: Do not overtighten! Sealant tape must be used on this connection.



3. Push the control valve **(3)** forward so that the end of the valve protrudes out above the trigger for a clockwise ("forward") tool operation.
4. Push the control valve back so that the end of the valve protrudes from the back of the housing for counter-clockwise ("reverse") tool operation.
5. Adjust the air flow by pushing down the air regulator and turning knob from positions 1 to 4 **(1, Fig. 6)**, aligning the desired number setting with the recessed arrow (Pos. 1 = lowest amount of air flow; pos. 4 = highest amount of air flow).
6. Push and snap the required ½" drive impact socket (not included) onto the anvil.



Caution!

- Always keep the tool pointed in a safe direction.
- Only use impact rated accessories with this tool. Other accessories may shatter, chip or crack during operation.
- Clean and inspect the tool daily. Carefully check for proper operation of trigger and safety mechanism. Do not use the tool unless both the trigger and safety mechanism are functional, if the tool is leaking air or needs any other repair.

Maintenance

Regular maintenance

- Clean and inspect the tool daily. Make sure the tool is disconnected from the air supply.
- Blow the tool clean with compressed air and inspect for wear and damage. Use non-flammable cleaning solutions to wipe the exterior of the tool, only if necessary. **DO NOT SOAK** the tool with cleaning solutions. Such solutions can damage internal parts.
- Inspect the trigger and the safety mechanism to ensure the system is complete and functional. Check for loose or missing parts as well as parts that may be stuck.
- Keep all screws tight. Loose screws may cause personal injury.
- Place two or three drops of pneumatic oil (included) into the air inlet of the tool daily.

Before each use

Inspect the general condition of the tool. Check for

- loose hardware or housing;
- misalignment or binding of moving parts;
- cracked or broken parts;
- any other condition that may affect its safe condition.

Daily: air supply maintenance

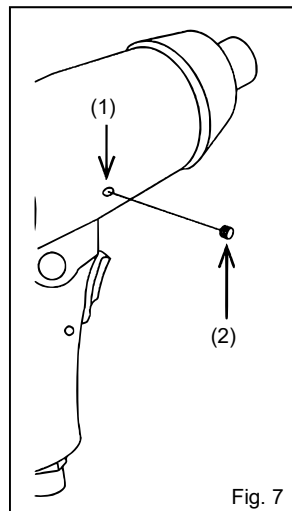
Every day, maintain the air supply according to the component manufacturers' instructions. Maintain the lubricator oil level. Drain the moisture filter regularly. Performing routine air supply maintenance will allow the tool to operate more safely and will also reduce wear on the tool.

Weekly: lubrication

Add a high-quality machine oil to the oil inlet **(1)** by removing the oil screw **(2)**, Fig. 7).

Quarterly (every 3 months): tool disassembly, cleaning, and inspection

Have the internal mechanism cleaned, inspected, and lubricated by a qualified technician.





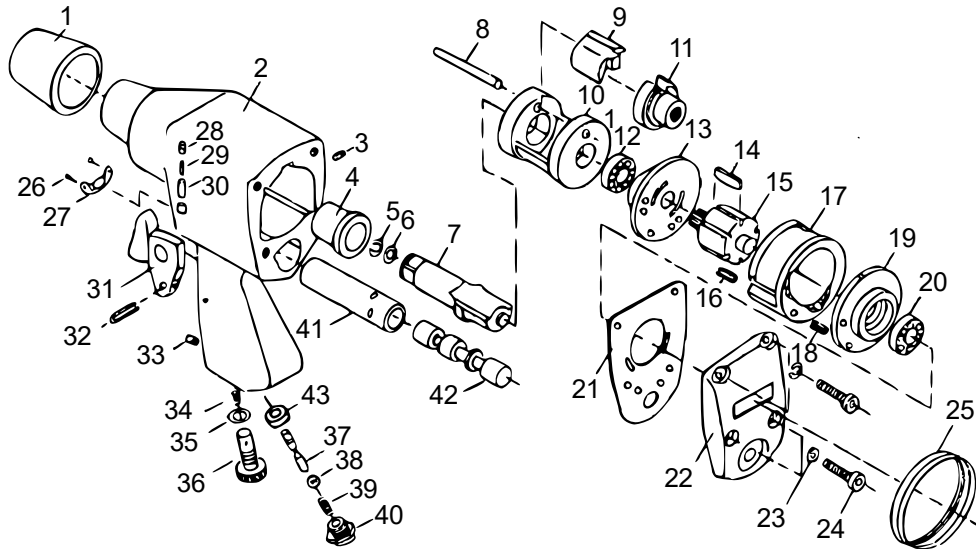
Troubleshooting

Problem	Possible cause	Solutions
Decreased output.	Not enough air pressure and/or air flow	Check for loose connections and make sure that air supply is providing enough air flow at required pressure to the tool air inlet. Do not exceed maximum air pressure.
	Obstructed trigger	Clean around trigger to ensure free movement.
	Incorrect lubrication or not enough lubrication	Lubricate using air tool oil according to prior instructions.
	Blocked air inlet screen (if equipped)	Clean air inlet screen of build-up.
	Air leaking from loose housing	Make sure housing is properly assembled and tight.
	Mechanism contaminated	Let a qualified technician clean and lubricate the mechanism. Install in-line filter in air supply as stated in "Setting up the air source."
Severe air leakage. (Slight air leakage is normal, especially on older tools.)	Cross-threaded housing components	Check for incorrect alignment and uneven gaps. If cross-threaded, disassemble and replace damaged parts before using the tool.
	Loose housing	Tighten the housing assembly. If housing cannot be tightened properly, internal party might be misaligned. A technician needs to disassemble the tool, align parts and reassemble.
	Damaged valve or housing	Replace damaged components.
	Dirty, worn or damaged valve	Clean or replace valve assembly.
Housing heats during use.	Incorrect lubrication or not enough lubrication	Lubricate using air tool oil according to prior instructions.
	Worn parts	Let a qualified technician inspect the internal mechanism and replace parts as needed.

Important notice:

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Exploded view and parts list



No	Name	No	Name
1	Protecting rubber	23	Washer
2	Housing	24	Screw
3	Screw	25	Rubber
4	Anvil bushing	26	Screw
5	Anvil collar and seal	27	Exhaust deflector
6	O-ring	28	Screw
7	Anvil (½" sq)	29	Spring
8	Hammer pin	30	Pin
9	Hammer dog	31	Trigger
10	Hammer cage	32	Pin
11	Drive cam	33	Screw
12	Ball bearing	34	Spring
13	Front end plate	35	O-ring
14	Rotor blade	36	Air regulator
15	Rotor	37	Valve stem
16	Pin	38	Steel ball
17	Cylinder	39	Spring
18	Pin cylinder	40	Hose adapter
19	Rear end plate	41	Valve sleeve
20	Ball bearing	42	Reverse valve
21	Rear gasket	43	Bushing
22	Rear cover		

Warning! Repairs must only be made by an authorized service partner or the manufacturer. Do not open or disassemble the power tool.