



ITALIANO

ENGLISH

1/2" SQUARE DRIVE



AIR IMPACT WRENCH

Rev.102018

FGA 309



AIR IMPACT WRENCH

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1. GENERAL WARNINGS



Before to use the tool, please read carefully the instruction contained in this manual. Improper or unsafe use of this tool can result in death or serious bodily injury.

This manual of instructions constitutes an integral part of product and it has to be edited by the end user for every possible future consultation. It contains important informations about the safety use of the product.



Use destination.

This tool and its accessories, must only be used for the purpose for which they have been conceived. A different use from that one suitable could cause damages to people, animals or things and it's considered improper and unreasonable action. The producer can't be considered responsible for possible damages caused by improper, wrong and unreasonable uses, as, for example, the un-observance of the safety instruction, the use of no original accessories and operation not authorized on the product.

2. TECHNICAL FEATURES OF THE TOOLS

Model:	FGA 309
Type:	impact wrench
Weight:	1.99 kg (4.40 lb)
Lenght:	175 mm (6,9")
Compressed air:	
Maximum permissible operating pressure:	6.2 bar (90 psi)
Recommended operative pressure:	6.2 bar (90 psi)
Avarange air consuption:	5.32 cfm (151 l/min)
Square drive:	1/2"
Mechanism:	twin-hammer
REVERSE TORQUE Max. torque at 90 psi:	1085 Nm for 10 seconds (800 ft-lb for 10 seconds)
FORWARD TORQUE Working torque (min – max)	190 Nm – 922 Nm for 5 seconds (140 ft-lb – 680 ft-lb for 5 seconds)
Breakaway torque:	1700 Nm
Free speed:	7300 rpm
Min. air hose size:	3/8" (10 mm)
Air inlet (NPT):	1/4"
Noise characteristic values in accordance with EN ISO 15744:	
Sound pressure level under load:	99.7 dB(A)
Sound power level under load	110.7 dB(A)
Measure uncertainty (standard):	3.0 dB
Vibration characteristic values in accordance with EN ISO 28927-2:	
Vibration value:	6.92 m/s ²
Measure uncertainty (standard):	1.5 m/s ²

3. IMPORTANT SAFETY INSTRUCTIONS

When using this air tool, the following basic safety precautions should always be followed to reduce the risk to personal injury:



Always wear safety glasses with side shields in accordance with applicable regulations.

Air powered equipment are capable of propelling materials such as metal chips, saw dust and other debris at high speed, which could result in serious eye injury. Tool attachments can become loose or break and fly apart propelling particles at the operator. Compressed air can be hazardous. The air stream can cause injury to soft tissue areas such as eyes, ears...etc. Particles or objects propelled by the stream can cause injury.



Always wear hearing protection in accordance with applicable regulations.

Long term exposure to noise produced from the operation of air tools can lead to permanent hearing loss.



Always wear protective gloves in accordance with applicable regulations.



Use protective mask during the use of the tool in accordance with applicable regulations.



Avoid prolonged and continuous use of the tool.

Prolonged exposure to tool vibrations can cause severe neurological and circulatory disorders.



Never exceed the maximum pressure rating of the tool. The maximum pressure rating of the tool is reported in the technical specifications (Paragraph 2 of this user manual) and on the same tool.

Exceeding the MAX. pressure rating of tool could cause an explosion resulting in serious injury.



- Never operate tools near flammable substance such as gasoline, naphtha, cleaning solvents, ...etc.
- Work in a clean, well ventilated area free of combustible materials.
- Never use oxygen, carbon dioxide or other bottled gases as a power source for air tool.

WARNINGS



- Never carry the tool by the hose. Always hold the tool only from the ergonomic handle it is endowed
- Never wear loose fitting clothes, or apparel, which contains loose straps or ties, etc. which could become entangled in moving parts of the tool. Remove any jewelry, watches, identifications, bracelets, necklaces, etc. which might become caught by the tool.
- Remove air hose when tool is not in use and store tool in secure location away in particular from reach of children.
- Before removing the compressed air supply hose from the tool, make sure to have previously closed the tap supply compressed air coming from the supply
- Remove air hose to lubricate or add attachments and accessories to the tool.
- Never operate tool while under the influence of drugs or alcohol.
- Don't overreach. Keep proper footing and balance at all times.
- Keep handles dry, clean and free from oil and grease.
- Do not use accessories designed for use without a manual as locking systems.
- Make sure that any attachments are securely assembled before to use the tool.
- Do not remove the labels placed on the tool.

4. INSTRUCTIONS FOR USE OF THE TOOL

Before each use:



ATTENTION

Before proceeding with the operation of lubrication, detachment / attachment, adjustment or installation of accessories, disconnect the air supply hose from the tool, having first taken care to close the tap of compressed air supply

- 1) Drain water from air compressor tank and condensation from air lines. See air compressor's operation manual.



ATTENTION

Always use clean, dry air at 90 PSI (6.2 bars) maximum air pressure. Dust, corrosive fumes and/or excessive moisture can ruin the internal components of a pneumatic tool.

- 2) Lubricate the tool, see "Maintenance" section in this manual.
- 3) Install the accessories (sockets, extension bars, etc...) verifying its integrity and that they are securely housed.

WARNINGS



- Use only impact wrench accessories (sockets, extension bars,...) and recommended from the producer with this tool.
- Do not use hand sockets and accessories because they are not endowed of appropriate locking systems.
- Use impact wrench extension anvil only when needed.
- Before assembly the accessories (sockets, extension bars,...) on the tool, always check the integrity of their locking systems.

USE:



ATTENTION

- Before to use the tool, always check the integrity of the tool and of its accessories.
- Before to start the tool, always check to have correctly set the accessory.

1. Turn air compressor on and allow air tank to fill.
2. Set the air compressor's regulator to 90 PSI (6.2 bars). This tool operates at a maximum 90 PSI (6.2 bar) pressure.
3. Connect tool to air hose of recommended size (see the Technical specifications paragraph of this user manual)



ATTENTION

Do not use damaged, frayed or deteriorated air hoses and fitting



1. TRIGGER
2. SWITCH ROTATION
3. POWER SWITCH

- To switch rotation, push the switch (2).

**WARNING**

Do not change the tool direction/speed of rotation while it is running.

- To adjust output power, turn the regulator (3)
 - Select "1" to have the minimum torque that correspond at 1/3 of the max. torque approximately
 - Select "2" to have the medium torque that correspond at 2/3 of the max. torque approximately
 - Select "3" to have the max. torque
- To start the machine, simply pull the trigger (1). Machine speed is increase by increasing pressure on the trigger.
- Release the trigger (1) to stop the tool.
- When job is complete, turn the air compressor off and store as described in the air compressor operator manual.

5. MAINTENANCE

**ATTENTION**

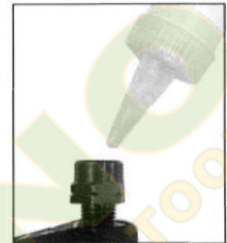
ALWAYS DISCONNECT AIR SUPPLY BEFORE LUBRICATING, INSTALLING, REMOVING OR ADJUSTING THE TOOL.

LUBRIFICATION

Air tools require regular lubrication throughout the life of the tool. The air motor and bearing use compressed air to power the tool. Because moisture in compressed air will rust the air motor, you must lubricate the motor daily. An inline oiler is recommended.

To lubricate the air motor manually:

- Disconnect the tool from the air supply holding it so the air inlet faces up.
- Depress the trigger and place one to two drops of air tool oil in the air inlet
- Connect the tool to an air source, cover the exhaust end with a towel and run for a few seconds.
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.

**ATTENTION**

Any excess oil in the motor is immediately expelled from the exhaust port. Always direct exhaust port away from people or objects.

6. TROUBLESHOOTING

**WARNING**

ALWAYS DISCONNECT AIR SUPPLY BEFORE PERFORMING ANY WORK ON THE TOOL.

If the tool does not start:

- make sure that in the compressed air circuit there is really pressure;
- check that all the valves are opened;
- check all the connections of the air supply;
- check if the safety valves are actived;
- if the problem persists, the tool need to be repaired from qualified personell.

7. DISPOSAL INFORMATIONS

When the tool is not usable and not repairable, dispose it according to regulations of the place in order to safeguard the environment.

8. EC DECLARATION OF CONFORMITY

This product complies with the dispositions of the following European Directives and Harmonized Standards:

2006/42/EC
Machinery directive

EN ISO 12100:2010
EN ISO 11148-6:2012
EN ISO 15744:2008
EN ISO 3744:2012
EN ISO 28927-2:2009

9. WARRANTY

This instrument is warranted to be free from defects in materials and workmanship (for a normal use of service) for a period of one year.

Any instrument found defective within one year from the delivery date and returned to the factory with transportation charges prepaid, will be repaired, adjusted, or replaced at no charge to the original purchaser.

This warranty doesn't cover expandable items such as batteries or fuses.

If the defect has been caused by a misuse or abnormal operating conditions, the repair will be billed to the customer at a nominal cost.