

GMC[®]

GLOBAL MACHINERY COMPANY

INSTRUCTION MANUAL

Air Impact Wrench Kit ***1/2" Square Drive***



2 YEAR
REPLACEMENT
WARRANTY

30 DAY
SATISFACTION
GUARANTEE

• Melbourne • Perth • Auckland • Hong Kong • Shanghai
• Taipei • New York • Verona • London • Paris

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Full 2 Years Home Use Warranty

Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.

This product is warranted for a 2-year period for home domestic use from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A small freight charge may apply.

The warranty replacement unit is only made available by returning the tool to the place of purchase with a confirmed register receipt. Proof of purchase is essential. We reserve the right to reject any claim where the purchase cannot be verified.

This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents, alterations or commercial or business use.

It also does not cover any bonus accessories unless the tool is a GMC Platinum Professional model.

Please ensure that you store your receipt in a safe place. Conditions apply to the above warranty.

If you need direction of what constitutes a free of charge warranty claim, please review the guide given on the rear of the Receipt Holder. An indication is given as to the types of claim that are permissible, and those that are not.



Dear Customer

If you require any help with your product, whether it is a Warranty claim, spare part or user information, please phone our Help Line for an immediate response. Phone 1300 880 001 in Australia or 0800 445 721 in New Zealand.

Introduction

Your new GMC tool will more than satisfy your expectations. It has been manufactured under stringent GMC Quality Standards to meet superior performance criteria.

You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

Caution. Carefully read through this entire Instruction Manual before using your new GMC Tool. Take special care to heed the Cautions and Warnings.

Your GMC tool has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.

Environmental protection



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.

Scope of product

This product is suited for home and camping applications. It will allow you to power outdoor lights, sound system, small television and recharges your car battery.

Description of symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection.

Wear eye protection.

Wear breathing protection.

Specifications

Square Drive:	1/2"
Free Speed:	7,000RPM
Max Torque:	260FT/LB Reverse 230FT/LB Forward
Air Cons:	4CFM@90PSI
Air Inlet:	1/4"PT
Net Weight:	2.04Kg
Impact Mechanism:	Rocking Dog

General safety instructions

To use these air tools properly, you must observe the safety regulations, the assembly instructions and the operating instructions to be found in this Manual. All persons who use and service the machine have to be acquainted with this Manual and must be informed about its potential hazards. Children and infirm people must not use these tools. Children should be supervised at all times if they are in the area in which the tools are being used. It is also imperative that you observe the accident prevention regulations in force in your area. The same applies for general rules of occupational health and safety.

Warning. When using air operated tools, basic safety precautions should always be taken to reduce the risk of fire, electric shock and personal injury. Also, please read and heed the advice given in the additional important safety instructions.

1. **Keep the work area clean and tidy.** Cluttered work areas and benches invite accidents and injury.
2. **Consider the environment in which you are working.** Do not use air tools in damp or wet locations. Keep the work area well lit. Do not expose air tools to rain. Do not use air tools in the presence of flammable liquids or gases.
3. **Keep visitors away from the work area.** All visitors and onlookers, especially children and infirm persons, should be kept well away from where you are working. Do not let others in the vicinity make contact with the tool or air hose.
4. **Store tools safely.** When not in use, tools should be locked up out of reach.
5. **Do not force the tool.** The tool will do the job better and safer working at the rate for which it was designed.
6. **Use the correct tool for the job.** Do not force small tools or attachments to do the job best handled by a heavier duty tool. Never use a tool for a purpose for which it was not intended.
7. **Dress correctly.** Do not wear loose clothing or jewellery. They can be caught in moving parts. Rubber gloves and non-slip footwear are recommended when working outdoors. If you have long hair, wear a protective hair covering.
8. **Use safety accessories.** Safety glasses and earmuffs should always be worn. A face or dust mask is also required if the sanding operation creates dust.
9. **Do not abuse the air hose.** Never carry the air tool by the air hose. Keep the air hose away from heat, oil and sharp edges.
10. **Secure the work piece.** Use clamps or a vice to hold the work piece. It is safer than using your hand and frees both hands to operate the tool.
11. **Do not overreach.** Keep your footing secure and balanced at all times.
12. **Look after your tools.** Keep tools sharp and clean for better and safer performance. Follow the instructions regarding lubrication and accessory changes. Inspect air hose periodically and, if damaged, have it replaced. Keep tool handles dry, clean and free from oil and grease.
13. **Disconnect idle tools.** Disconnect air tools from the air hose before servicing, when changing accessories and when the tool is not in use.
14. **Remove adjusting keys and wrenches.** Check to see that keys and adjusting wrenches are removed from the tool before switching on.
15. **Avoid unintentional starting.** Do not carry a connected air tool with your finger on the trigger.
16. **Stay alert.** Watch what you are doing. Use common sense. Do not operate an air tool when you are tired.
17. **Check for damaged parts.** Before using a tool, check that there are no damaged parts. If a part is slightly damaged, carefully determine if it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, proper mounting and any other conditions that may affect the operation of the tool. A part that is damaged should be properly repaired or replaced by an authorised service facility, unless otherwise indicated in this Instruction Manual.
18. **Guard against electric shock.** Prevent body contact with grounded objects such as water pipes, radiators, cookers and refrigerator enclosures.
19. **Use only approved parts.** When servicing, use only identical replacement parts. Use an authorised service facility to fit replacement parts.

Important safety instructions

Risk of eye or head injury	
What could happen	How to prevent it
<ul style="list-style-type: none"> • Air powered equipment are capable of propelling materials such as fasteners, metal chips, saw dust, and other debris at high speed, which could result in serious eye injury. 	<ul style="list-style-type: none"> • Always wear safety glasses with side shields. • Never leave operating tool unattended. Disconnect air hose when tool is not in use.
<ul style="list-style-type: none"> • Tool attachments can become loose or break and fly apart propelling particles at the operator and others in the work area. 	<ul style="list-style-type: none"> • For additional protection use an approved face shield in addition to safety glasses.
<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Make sure that any attachments are securely assembled.

Risk of fire or explosion	
What could happen	How to prevent it
<ul style="list-style-type: none"> • Abrasive tools such as sanders and grinders, rotating tools such as drills, and impact tools such as nailers, staplers, wrenches, hammers, and reciprocating saws are capable of generating sparks which could result in ignition of flammable materials. 	<ul style="list-style-type: none"> • Never operate tools near flammable substances as gasoline, cleaning solvents, etc. • Work in a clean, well ventilated area. • Never use oxygen, carbon dioxide or other gases as a power source for air tools.
<ul style="list-style-type: none"> • Exceeding the maximum pressure rating of tools or accessories could cause an explosion resulting in serious injury. 	<ul style="list-style-type: none"> • Use compressed air regulated to a maximum pressure at or below the rated pressure of any attachments. • Never connect to an air source that is capable of exceeding 200 psi. • Always verify prior to using the tool that the air source has been adjusted to the rated air pressure range.

Risk of loss of hearing	
What could happen	How to prevent it
<ul style="list-style-type: none"> • Long term exposure to noise produced from the operation of air tools can lead to permanent hearing loss. 	<ul style="list-style-type: none"> • Always wear hearing protection.

Risk to breathing inhalation hazard

What could happen	How to prevent it
<ul style="list-style-type: none"> • Abrasive tools, such as grinders, sanders, and cut-off tools generate dust and abrasive materials which can be harmful to human lungs and respiratory system. 	<ul style="list-style-type: none"> • Always wear a face mask or respirator when using such tools.
<ul style="list-style-type: none"> • Some materials such as adhesives and tar, contain chemicals whose vapors could cause serious injury with prolonged exposure. 	<ul style="list-style-type: none"> • Always work in a clean, dry, well ventilated area.

Risk to injury

What could happen	How to prevent it
<ul style="list-style-type: none"> • Tools left unattended with the air hose attached, can be activated by unauthorized persons leading to their injury or injury to others. 	<ul style="list-style-type: none"> • Remove air hose when tool is not in use and store tool in secure location away from reach of children and or untrained users.
<ul style="list-style-type: none"> • Air tools can propel fasteners or other materials throughout the work area. 	<ul style="list-style-type: none"> • Use only parts, fasteners, and accessories recommended by the manufacturer. • Keep work area clean and free of clutter. • Keep children and others away from work area during operation of the tool. • Keep work area well lit.
<ul style="list-style-type: none"> • A wrench or a key that is left attached to a rotating part of the tool increases the risk of personal injury. 	<ul style="list-style-type: none"> • Remove adjusting keys and wrenches before turning the tool on.
<ul style="list-style-type: none"> • Using inflator nozzles for duster applications can cause serious injury. 	<ul style="list-style-type: none"> • DO NOT use inflator nozzles for duster applications.
<ul style="list-style-type: none"> • Air tools can become activated by accident during maintenance or tool changes. 	<ul style="list-style-type: none"> • Remove air hose to lubricate or add grinding attachments, sanding discs, drills, etc. to the tool. • Never carry the tool by the hose. • Avoid unintentional starting. Don't carry an air tool which is connected to an air hose, with your finger on the trigger. • Repair servicing should be done only by an authorized service representative.
<ul style="list-style-type: none"> • Air tools can cause the workpiece to move upon contact leading to injury. 	<ul style="list-style-type: none"> • Use clamps or other devices to prevent movement.

Risk to injury (cont.)

<ul style="list-style-type: none"> • <i>Loss of control of the tool can lead to injury to self or others.</i> 	<ul style="list-style-type: none"> • <i>Never operate tool while under the influence of drugs or alcohol.</i> • <i>Don't overreach. Keep proper footing and balance at all times.</i> • <i>Keep handles dry, clean, and free from oil and grease.</i> • <i>Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.</i>
<ul style="list-style-type: none"> • <i>Poor quality, improper, or damaged tools such as grinding wheels, chisels, sockets, drills, nailers, staplers, etc., can fly apart during operation, propelling particles throughout the work area causing serious injury.</i> 	<ul style="list-style-type: none"> • <i>Always use tool attachments rated for the speed of the air tool.</i> • <i>Never use air tools which have been dropped, impacted or damaged by use.</i> • <i>Use only impact grade sockets on an impact wrench.</i> • <i>Do not apply excessive force to the tool, let the tool perform the work.</i>
<ul style="list-style-type: none"> • <i>Fasteners could ricochet or be propelled causing serious injury or property damage.</i> 	<ul style="list-style-type: none"> • <i>Never point discharge of tool at self or others.</i> • <i>Do not pull trigger unless tool contact safety device is against work surface.</i> • <i>Never attempt to drive fasteners into hard surfaces such as steel, concrete, or tile.</i> • <i>Take care to avoid driving a fastener on top of another fastener.</i> • <i>Position tool carefully so that fasteners will be delivered to the proper location.</i>
<ul style="list-style-type: none"> • <i>Improperly maintained tools and accessories can cause serious injury.</i> 	<ul style="list-style-type: none"> • <i>Maintain the tool with care.</i> • <i>Keep a cutting tool sharp and clean. A properly maintained tool, with sharp cutting edges reduces the risk of binding and is easier to control.</i>
<ul style="list-style-type: none"> • <i>There is a risk of bursting if the tool is damaged.</i> 	<ul style="list-style-type: none"> • <i>Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation. If damaged, have the tool serviced before using.</i>
<ul style="list-style-type: none"> • <i>Use only accessories identified by the manufacturer to be used with specific tools.</i> 	<ul style="list-style-type: none"> • <i>Use of an accessory not intended for use with the specific tools, increases the risk of injury to persons.</i>

Risk of electric shock

What could happen	How to prevent it
<ul style="list-style-type: none">• Using air tools to attach electrical wiring may result in electrocution or death.	<ul style="list-style-type: none">• Never use nailer/staplers to attach electrical wiring while energized.
<ul style="list-style-type: none">• Contact with a “live” wire will also make exposed metal parts of the tool “live” and may result in electrocution or death.	<ul style="list-style-type: none">• Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
<ul style="list-style-type: none">• Fasteners coming in contact with hidden electrical wiring may cause electrocution or death.	<ul style="list-style-type: none">• Thoroughly investigate the workpiece for possible hidden wiring before performing work.

Risk of entanglement

What could happen	How to prevent it
<ul style="list-style-type: none">• Tools which contain moving elements, or drive other moving tools, such as grinding wheels, sockets, sanding discs, etc. can become entangled in hair, clothing, jewellery and other loose objects, resulting in severe injury.	<ul style="list-style-type: none">• 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 jewellery, watches, identifications, bracelets, necklaces, etc. which might become caught by the tool.• Keep hands away from moving parts. Tie up or cover long hair.• Always wear proper fitting clothing and other safety equipment when using this tool.

Risk of cut or burns

What could happen	How to prevent it
<ul style="list-style-type: none">• Tools which cut, shear, drill, staple, punch, chisel, etc. are capable of causing serious injury	<ul style="list-style-type: none">• Keep the working part of the tool away from hands and body.

Know your product

Before using the impact wrench, familiarise yourself with all the operating features and safety requirements.

Use the tool only for the applications intended. All other applications are expressly ruled out.

1. Drive anvil
2. Rubber nose guard
3. Body
4. Adjustable speed control
5. Contoured pistol grip
6. Air inlet
7. Exhaust port
8. Trigger
9. Impact mechanism oil port



Additional safety instructions for impact wrenches

This air impact wrench kit is designed for removing and installing nuts and bolts. With one hammer (Rocking Dog) impact mechanism and useful accessories, this kit is used as a general purpose tool kit by DIYers and hobbyists.

1. This impact wrench is a part of a high pressure system. Do not exceed maximum operating pressure of the air tool (90PSI). The impact wrench could explode and may result in death or serious injury.
2. Disconnect the impact wrench from air compressor before changing tools or accessories, servicing and during non-operation.
3. Always wear safety glasses and using hearing protection during operation.
4. Do not wear loose fitting clothing and jewellery which may become caught in moving parts and result in serious injury.
5. Do not depress trigger when connecting the air hose.
6. Always use accessories fittings designed for use with air tools. Use impact-quality sockets only. Do not use hand-tool sockets, damaged or worn accessories.
7. Never trigger the tool when not applied to a work object. Accessories must be securely attached.
8. Make sure all connections are secure and check air hoses for weak or worn condition before each use.
9. Disconnect air supply before installing or any maintenance.

Operation

Before each use:

- Drain water from air compressor tank and condensation from air lines. Refer to your air compressor instruction manual.

CAUTION: Disconnect the tool from the air supply before lubricating or changing sockets.

- Lubricate tool, see "Maintenance" section in this manual.

CAUTION: Impact sockets and accessories must be used with this tool. Do not use hand sockets and accessories.

- Select the required impact socket. This tool has a 1/2" square drive, use 1/2" deep sockets. Use 1/2" extensions only when needed.

IMPORTANT: The use of air filters and air line lubricators is recommended.

Maintenance

This impact wrench requires lubrication before initial use and before and after each additional use throughout its life.

Air motor lubrication

1. Disconnect the impact wrench from the air supply and hold the tool upside down.
2. Pull the trigger, put one teaspoon of air tool oil in the air inlet lubricating the air motor the air inlet (6), and then adjust the adjustable speed control (4) in both the forward and reverse directions to help circulate oil in the motor.
3. Reconnect the impact wrench to the air supply and cover the exhaust port (7) with a towel and run in both the forward and reverse directions for 20 seconds. Oil will discharge from the exhaust port when air pressure is applied. Any excess oil in the motor is immediately expelled from the exhaust port. Always direct exhaust port away from people or objects.

Impact mechanism lubrication

1. Disconnect the air impact wrench from the air supply.
2. Remove the allen head screw from the impact mechanism oil port (9) hole on the right side of the tool that has "OIL".
3. Put three teaspoons of air tool oil in the oil port. Then, replace the screw.
4. Reconnect the impact wrench with the air supply and run for 20 seconds. Lubricate the whole impact mechanism by rotating the tool upside down and sideways while running the tool.

5. Remove the screw and hold the oil port hole over a container to allow excess oil to drain.
6. If the oil is dirty, repeat the procedure above until the oil comes out clear. Install the screw and tighten. The residual oil remaining in the impact mechanism chamber is all that is needed for proper lubrication



Air supply

Air supply **MUST** be greater than air requirement of the tool. Recommended air compressor is 3/4HP tank for intermittent use; 1.5HP or larger for heavier duty use



The impact wrench must be lubricated before storing. Follow the air motor lubrication instructions. Only run for 3 seconds instead of 20 seconds because more oil needs to remain in the tool when storing.

Adjustable speed control

This impact wrench is equipped with a regulator for adjustable speed control (4). This switch is located at the rear of the tool. The impact wrench should **NEVER** be used to set torque. Use a torque wrench to set the torque.



To remove nuts, set the regulator to the maximum setting. To install nuts, set the regulator to the minimum to medium setting. Do not over-tighten the nuts.

Forward and reverse directions are controlled by rotating the speed control knob noted.

General inspection

1. Regularly check that all the fixing screws are tight.
2. The supply cord of the compressor should be checked frequently for damage. If damaged, have the cordset replaced by an authorised service facility to avoid a hazard.

Cleaning

1. Keep the tool's air vents unclogged and clean at all times.
2. Remove dust and dirt regularly. Cleaning is best done with a soft brush or a rag.
3. Re-lubricate all moving parts at regular intervals.
4. If the body of the air tool needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but nothing like alcohol, petrol or other cleaning agent.
5. Never use caustic agents to clean plastic parts.

CAUTION: Water must never come into contact with the tool.

Repairs

1. Only an authorised service centre should carry out repairs on air tools.

Troubleshooting

Trouble	Possible cause(s)	Suggested remedy(s)
Tool runs slowly or will not operate.	1. No oil in tool.	1. Lubricate the tool according to the lubrication instructions.
	2. Grit or gum in tool.	2. Flush the tool with air tool oil, gum solvent, or an equal mixture of motor oil and kerosene.
	3. Low air pressure.	3. a. Adjust the regulator on the tool to the maximum setting. b. Adjust the compressor regulator to maximum the tool is running free.
	4. Air hose leaks.	4. Tighten and seal hose fittings if leaks are found.
	5. Pressure drops.	5. a. Be sure the hose is the proper size. Long hoses or tools using large volumes of air may require a hose with an I.D. of 1/2" or larger depending on the total length of the hose. b. Do not use a multiple number of hoses connected together with quick connect fittings. This causes additional pressure drops and reduces the tool power.
	6. Worn rotor blade.	6. Replace rotor blade.
	7. Worn ball bearing.	7. Remove and inspect bearing for rust, dirt and grit. Replace or clean and regrease bearing with bearing grease.

Troubleshooting (cont.)

<i>Trouble</i>	<i>Possible cause(s)</i>	<i>Suggested remedy(s)</i>
<i>Moisture blowing out of tool.</i>	1. <i>Water in tank.</i>	1. <i>Drain tank. Oil tool and run until no water is evident.</i>
	2. <i>Water in air hoses.</i>	2. <i>a. Install a water filter. b. Install an air dryer.</i>
<i>Impacts slowly or will not impact.</i>	1. <i>Lack of lubrication.</i>	1. <i>Lubricate the air motor and impact mechanism.</i>
	2. <i>Tool regulator set in wrong position.</i>	2. <i>Adjust the regulator on the tool to the maximum setting.</i>
	3. <i>Inline regulator too low.</i>	3. <i>Adjust regulators in the air system.</i>
<i>Impacts rapidly but will not remove bolts.</i>	1. <i>Worn impact mechanism.</i>	1. <i>a. Replace worn impact mechanism components. b. Return impact wrench for repair.</i>
<i>Does not impact.</i>	1. <i>Broken impact mechanism.</i>	1. <i>a. Replace broken impact mechanism components. b. Return impact wrench for repair.</i>

Carefully read the entire Instruction Manual before using this product.

**Before returning this product for a
Warranty Claim or any other reason
Please Call 1300 880 001 (Australia)
or 0800 445 721 (New Zealand)**

**When you make your call, please have
the following information at hand:**

- **GMC Product Type**
- **GMC Product Code**

A GMC Service Engineer will take your call and, in most cases, will be able to solve your problem over the phone.

You are welcome to use this phone-in service to make suggestions or give comments about any GMC product.

With continuing product development changes may have occurred which render the product received slightly different to that shown in this instruction manual. The manufacturer reserves the right to change specifications without notice. Note: Specifications may differ from country to country.



The GMC 777 Helpline operates from 7am to 7pm, 7 days a week (EST). This allows you to contact GMC directly with any queries and technical questions you have regarding our products.

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Save this Manual for future reference.