



1200W
125MM (5")
ANGLE GRINDER

AG125MAG
INSTRUCTION MANUAL
050922 ED4 JJ

GMC®

GLOBAL MACHINERY COMPANY



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Full 3 Years Light Trade 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 3-year period for light trade 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 power 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 Power Tool. Take special care to heed the Cautions and Warnings.

Your GMC power 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.

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.



Double insulated for additional protection.



N380

Conforms to relevant standards for electromagnetic compatibility.

Specifications

Nominal voltage:	230–240Vac ~ 50Hz
Input power:	1200W
Variable speed:	4000 - 10,500min ⁻¹
Insulation class:	Double insulated
Disc size:	125mm
Spindle:	M14
Disc bore diameter:	22.2mm
Sound pressure level:	95 dB(A)
Weight:	2.7kg

Safety instructions

WARNING. Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all of the warnings below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Save these instructions

Work area

- **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- **Power tool plugs must match the outlet.** Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord.** Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an outdoor extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

Personal safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Use safety equipment.** Always wear eye protection. Safety equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Avoid accidental starting.** Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the tool on.** A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- **Dress properly.** Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities ensure that these are connected and properly used.** Use of these devices can reduce dust-related hazards.

Power tool use and care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools.** Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from intended could result in a hazardous situation.

Service

- **Have your power tool serviced by a qualified repair personnel using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Additional safety rules for angle grinders

- Fully unwind cable drum extensions to avoid potential overheating.
- When an extension cable is required, you must ensure that it has the right ampere rating for your power tool and is in safe electrical condition.
- Always switch off before you put the angle grinder down.
- Do not let anyone under 18 years operate this tool.
- Rags, cloths, cord, string and the like should never be left around the work area.
- If you are interrupted when operating the tool, complete the process and switch off before looking up.
- Periodically check that all nuts, bolts and other fixings are properly tightened.
- Check the disc before mounting it into the angle grinder. Check by striking it with a wooden handle whilst balancing the disc on your finger. Listen for the ring and do not use if dull, as the disc may be cracked.
- When the disc is installed, run it for at least one minute to ensure that it does not have a fault. It is always advisable to stay out of the line of the disc when testing or when using the tool.
- Do not use a disc marked with a lower RPM than that of the no load speed shown on the rating plate.
- Use discs only of the prescribed diameter.
- Do not use the angle grinder for buffing or polishing under any circumstances.
- Never try to operate the angle grinder without the guard in place.
- Do not secure the angle grinder in a vice or work bench and use it as a static grinder. It can lead to serious injury.
- Never apply excessive pressure to the disc. It might shatter causing personal injury.
- Ensure the work piece to be ground or cut, is held tight in the vice or other clamping system.

- Always use the front handle and ensure a good grip on the grinder housing with one hand and the handle with the other hand before proceeding with any work.
- Make sure that the disc is not in contact with the work when you start the grinder.
- Be careful not to damage the spindle or either of the disc flanges. Damage to these parts could result in disc breakage.
- Do not press the spindle lock button whilst the spindle is turning.
- Only use good quality grinding and cut off discs. Cheap poor quality discs tend to glaze up which loads the motor and can damage it. Use discs for their designated purpose only. For instance, do not use cutting discs for grinding or metal wheels on masonry.
- Watch out for flying sparks. Hold the tool at an angle of approximately 15° to 30° to the work piece surface.
- Let the disc do the grinding or cutting at a reasonable feed, as overloading will occur if too much pressure is applied and the disc slows resulting in inefficient cutting and possible damage to the motor.
- When using the grinder, use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves.

ALWAYS WEAR EYE PROTECTION

Wear goggles

Wear hearing protection

Wear a breathing mask

Contents of carton

The GMC AG125MAG Angle Grinder is supplied with the following accessories as standard:

- Pin wrench
- Side handle
- 125mm metal cutting disc
- Instruction manual

Unpacking

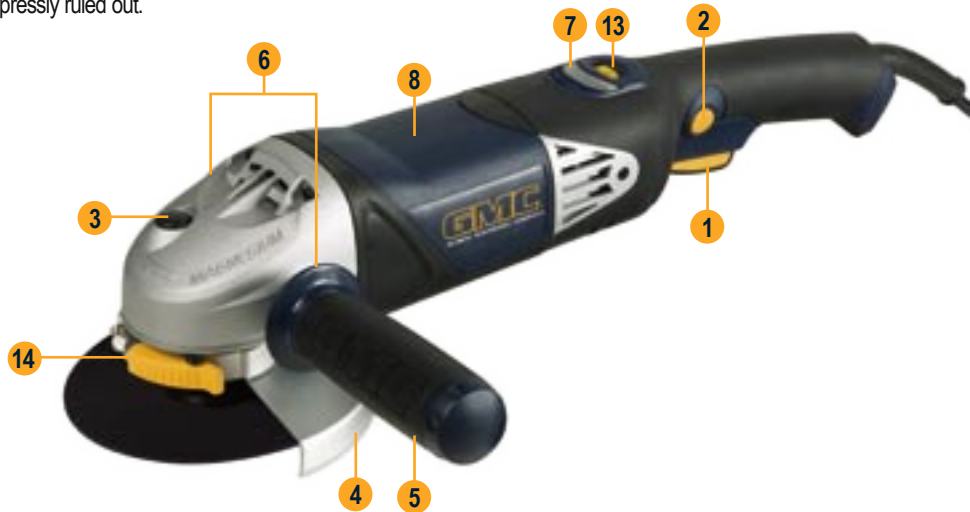
Due to modern mass production techniques, it is unlikely that your GMC Power Tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

Know your product

Before using the angle grinder, familiarise yourself with all the operating features and safety requirements.

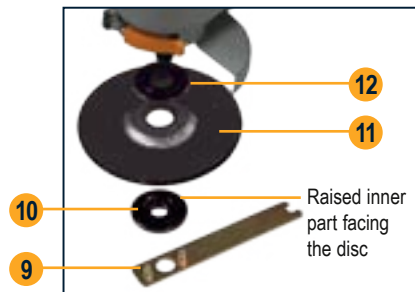
Use the tool and accessories only for the applications intended. All other applications are expressly ruled out.

1. On/off switch
2. Power lock-on button
3. Spindle lock button
4. Disc guard
5. Front handle
6. Mounting points for the handle
7. LED Overload protection system
8. Motor housing
9. Pin wrench
10. Outer flange
11. Disc
12. Inner flange
13. Variable speed dial with soft start
14. Quick release guard lever

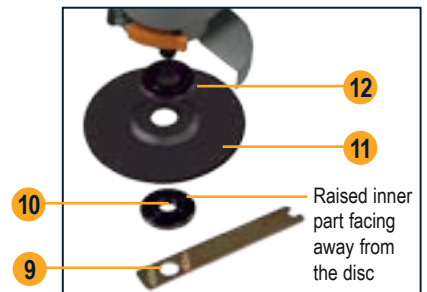


Disc assembly showing flange requirements

Depressed disc (thicker than 4mm)



Depressed disc (4mm or less in thickness)



Setting up

Multi-position front handle

Screw the front handle (5) into the most suitable mounting port (6) (left side or right side) to suit the application. Ensure that the handle is fully screwed in place and firm.



Disc guard

WARNING. Switch off the grinder and disconnect it from the power point.

NOTE. Grinding operations normally require the angle grinder to be held with the grinding disc parallel to the plane of the workpiece whilst cutting operations normally require the angle grinder to be held with the cutting disc at right angles to the workpiece. Take the time to find the best combination of front handle and slimline handle positions to suit the task on hand. It can make a considerable difference to the levels of convenience and safety of operation.

1. Open the quick release guard lever (14).



2. Position the lug on the inside of the central guard ring in the vertical slot in the spindle cover and press the guard onto the spindle cover.
3. Twist the guard to the appropriate position for either grinding or cutting.
4. Lock the guard in position with the quick release guard lever.



Operation

This angle grinder can be used for grinding and cutting steel, stone or ceramic workpieces such as pipe, box section, rectangular, angle iron steel bar, house bricks and tiles. Do not attempt to grind wood or a soft metal such as lead. The material will quickly "fill" the disc and render it useless.

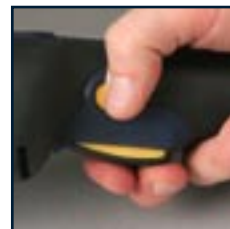
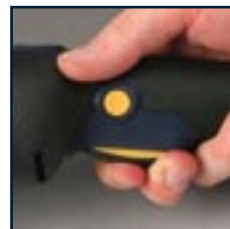


Before starting the grinder first ensure that the disc, disc guard and tool are in good condition.

Position the guard (4) as described in the disc guard section so that it will deflect hot sparks away from the operator.

Switching on and off

1. Plug the power cord into the power point.
2. Start the tool by depressing the on/off trigger switch (1). Release the trigger to stop the tool.
3. If you press the lock on button (2) while the trigger switch is depressed, the switch is kept in the operating position. To release the lock on button, press and release the trigger switch.
4. Hold the grinder firmly while it is switched on and only apply gentle pressure to the workpiece. Little more than the weight of the tool should be applied to give the best and most efficient material removal. Forcing and excessive pressure can cause dangerous disc fracture or damage to the tool. Hold the grinder at approximately 15° to 30° to the work and move slowly.



- Once the grinding or cutting is finished, pull in and release the on/off switch (1) to stop the grinder.

WARNING. Avoid flying sparks and ensure they do not hit any inflammable materials, as they are very hot and could cause personal injury or a fire.

WARNING. The disc continues to turn for a few seconds even though the switch is turned off. Keep your hands well away from the moving disc.

Led overload protection system

Overloading the tool means the tool is being leaned on excessively during use, slowing down the speed of the tool. As a result of the motor slowing down, the internal fan does not work to its full capacity.

- The LED Overload protection system will alert you when it is overloading.
- The grinder will warn you when you are approaching overload by flashing the Yellow light
- If you continue to ignore the yellow light or do not see it, the red light will come on and the grinder will immediately come to a stop.
- When this occurs, wait a brief moment then restart the grinder, however, take additional care not to press on the tool too much.



Variable speed

The variable speed feature of this grinder enhances the grinding performance and saves the disc from undue wear.

- The variable speed dial (13) is used to program the speed of the disc. The speed should be adapted to the material being grinded.

- Use your finger or thumb to turn the dial forwards to increase the speed and backwards to decrease it.
- Position "1" denotes the lowest speed. Position "6" denotes the highest speed.



NOTE. Using the correct speed for the job increases the life of the disc.

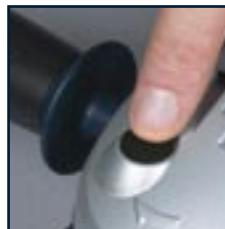
Variable speed with soft start

This grinder is fitted with soft start technology. This feature operates when you start the tool by slowly increasing the power to the selected speed. The soft start feature eliminates any "kick" when the grinder is switched on. In conventional grinders without soft start the switch is heated up instantly thus reducing the life expectancy. The soft start feature ensures a longer life for the tool.

Replacing a disc

CAUTION. Switch off the grinder and disconnect it from the power point.

- Turn the angle grinder on to its back and press the spindle lock button (3) and rotate the spindle until it locks.



- Insert the pins of the wrench (9) into the holes in the outer flange (10) and remove it and the old disc.

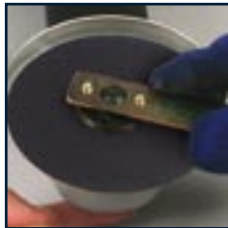
NOTE. Do not remove the inner flange (12).

WARNING. Do not use a disc marked with a lower RPM than that of the Max no load speed shown on the rating plate.

3. Clean the flanges and check the new disc.
4. Holding the angle grinder with the spindle facing upwards, check that the inner flange is on the spindle and correctly located. The two machined flat sections must face the angle grinder and locate in the appropriate position on the spindle.
5. Place the disc onto the spindle with the label facing the angle grinder. The hole in the disc should locate onto the spindle and fit firmly into the spigot section of the inner flange.

NOTE. Depending on whether the disc has a flat inner section or a depressed inner section, proceed as follows.

6. For discs with a flat inner section, screw on the outer flange (10) with the protruding spigot section facing away from the disc.
7. For discs with a depressed inner section, screw on the outer flange with the protruding spigot section facing the disc so that it locates in the hole in the disc.
8. Hand tighten the outer flange until the disc is secure.
9. Press the spindle lock button and tighten the flange with the wrench.
10. Turn the new disc by hand, ensuring that it is tightly secured and that it rotates fully and does not wobble unduly.
11. Run the angle grinder under no load for at least one minute to ensure the new disc is in good condition. Make sure you are wearing all the safety gear and that you face the grinder away from you.



CAUTION. Do not use excessive force to clamp the disc. It could crack it and cause failure during use.

WARNING. Do not immerse the disc into any type of lubricant including water. This angle grinder is designed as a dry grinder/cutter. Failure to observe this warning could result in a fatal shock.

Lubrication

The grease in the gearbox will require replacement after extensive use of the tool. Please go to a qualified service agent to perform this service.

Power cord maintenance

If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorised service centre in order to avoid a safety 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 rag. Wear safety goggles or an eye shield and gloves whilst cleaning.
3. Re-lubricate all moving parts at regular intervals.
4. Never use caustic agents to clean plastic parts.

CAUTION. Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

General inspection

Regularly check that all the fixing screws are tight, particularly the outer flange. They may vibrate loose over time.

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.

 Helpline 1300 880 001 (Australia) or 0800 445 721 (New Zealand)

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 products.

Save this Manual for future reference

GMC Head Office:

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Telephone (03) 8346 1100 Fax (03) 8346 1200

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GLOBAL MACHINERY COMPANY

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30 DAY
SATISFACTION GUARANTEE

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