



1050W 2 GEAR HAMMER DRILL

HD2G250M
INSTRUCTION MANUAL

GMC[®]

GLOBAL MACHINERY COMPANY



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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 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

Voltage:	230–240V ~ 50Hz
Input power:	1050W
No load speed:	0 - 1100 & 0 - 2800 min ⁻¹
Number of impacts:	0 - 17560 & 0 - 44800 BPM
Chuck size:	13mm
Maximum drilling capacity:	Wood: 30mm Steel: 13mm Masonry: 13mm
Net weight:	2.7kg
Sound pressure level:	91.7 dB(A)

General safety rules

WARNING Read 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 listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

Save these instructions

1. Work area

- a. **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- b. **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.
- c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2. Electrical safety

- a. **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.
- b. **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.
- c. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d. **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.
- e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

3. Personal safety

- a. **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.
 - b. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
 - c. **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.
 - d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
 - e. **Do not overreach.** Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
 - f. **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.
 - g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust related hazards.
- #### 4. Power tool use and care
- a. **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.
 - b. **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.

- c. 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.
- d. 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.
- e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f. Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g. 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 those intended could result in a hazardous situation.
- 5. Service**
- a. Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Additional safety rules for drills

- Wear ear protectors with impact drills. Exposure to noise can cause hearing loss.
- Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.
- If possible, always use clamps or a vice to hold your work.
- Always switch off before you put the drill down.
- Ensure that the lighting is adequate.
- Do not put pressure on the drill, such that it slows the motor down. Allow the drill bit to cut without pressure. You will get better results and you will be taking better care of your tool.
- Keep the area free of tripping hazards.
- Do not let anyone under 18 years operate this tool.
- Only use accessory bits in good condition.
- Before drilling, check that there is sufficient clearance for the drill bit under the workpiece.
- Do not touch the bit after operation. It will be very hot.
- Keep your hands away from under the workpiece.
- Never use your hands to remove sawdust, chips or waste close by the bit.
- Rags, cloths, cord, string and the like should never be left around the work area.
- Support the work properly.
- If you are interrupted when operating the drill, complete the process and switch off before looking up.
- Periodically check that all nuts, bolts and other fixings are properly tightened.
- When using the drill, use safety equipment including safety glasses or shield, ear protectors, and protective clothing including safety gloves. Wear a dust mask if the drilling operation creates dust.

If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.

To use this tool 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 frail people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is 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.

The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes. Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool's construction and design:

- Damage to the lungs if an effective dust mask is not worn.
- Damage to hearing if effective ear protectors are not worn.

Contents of carton

- Auxiliary handle
- Depth gauge
- 250 Drill and bit accessories

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.

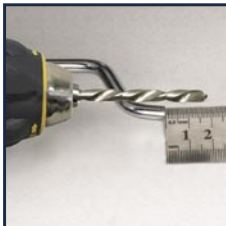
Know your product

1. Keyless rubber chuck
2. Auxiliary handle
3. Depth gauge
4. Drilling/hammer mode selector
5. Lock-on button
6. Forward/Reverse switch
7. Variable speed trigger switch
8. Speed dial
9. Spindle lock button
10. Gear selector



Auxiliary handle and depth gauge

1. Turn the auxiliary handle (2) anti-clockwise to loosen the collar and slip it over the chuck onto the drill.
2. Insert the depth gauge (3) in the hole at the top of the handle (2).
3. The auxiliary handle can swivel 360° for the most comfortable position and easiest operation.
4. The depth gauge helps keep an accurate depth when drilling holes to a set depth.
5. To change the position of the depth gauge, turn the handle grip anti-clockwise until the depth gauge is loose enough to slide through the hole.
6. Set the depth, checking the depth with a steel rule for most accurate measurement and then turn the handle grip clockwise to tighten both the depth stop and the auxiliary handle in the required position.

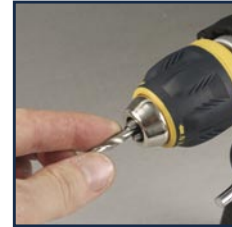


Inserting and removing bits

CAUTION. Always ensure that the drill is switched off and the plug is removed from the power point before making any adjustments.

The drill is fitted with a comfortable rubber keyless chuck for easier tightening and more grip torque.

1. Open the chuck jaws by pressing down the spindle lock button (9), firmly holding the keyless chuck (1) and rotating the housing in an anti-clockwise direction.
2. Open the jaws sufficiently so as to fit the desired accessory. Ensure the accessory is inserted so the jaws clamp securely on the smooth section of the drill bit.
3. To firmly clamp the accessory in the chuck, grasp the chuck housing and rotate the chuck housing in a clockwise direction until you hear the "click".



Operation

Starting and stopping

Operational controls

1. Ensure that the tool is in good condition.
2. Plug the cordset into the mains socket.
3. Depress the trigger switch (7) to start the drill and release the trigger when you wish to stop.
4. Press the lock-on button (5) whilst the trigger is depressed if you require continuous operation. To disengage the lock-on switch, press the trigger then release it.



Variable speed trigger switch

1. You can adjust the speed of the drill between zero and maximum by varying the pressure on the trigger. The harder you press on the trigger the faster the drill will operate.

Speed adjustment

1. You can change the maximum speed setting by turning the speed dial (8) located on the trigger switch.



Reversing the direction of rotation

The forward/reverse switch (6) determines the direction of rotation of the tool.

1. To select forward rotation, release the trigger switch and push the forward/reverse switch to the left side of the tool.
2. To select reverse, push the forward/reverse switch to the right side of the tool.

CAUTION. Any attempt to reverse the direction of rotation while the drill is turning is likely to permanently damage the switch.



Drilling/hammer mode selector

You can use the drill for both hammer action and normal drilling.

1. Use the drilling/hammer mode selector (4) to select hammer or drill action. The type of drilling selected is indicated by the symbol on each side of the drill.
2. Push the selector to **T** for hammer action.
3. Push the selector to **S** for drill action.



CAUTION. Change the mode of action only when the drill has come to a complete standstill.

NOTE. Hammer action drilling should only be performed in the forward direction.

Gear selector

The gear selector (10) allows you to shift gears for greater versatility of operation.

1. To select the low speed, high torque setting (Position 1), turn the tool off and let the motor come to a complete standstill. Turn the gear selector to Position "1".
2. To select the high speed, low torque setting, (Position 2), turn the tool off and let the motor come to a complete standstill. Turn the gear selector to Position "2".



NOTE. Do not change gears when the drill motor is turning.

If you are having trouble changing gears, make sure that the gear selector is either completely in Position 1 or completely in Position 2 as you rotate the chuck by hand.

Chuck replacement

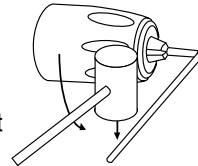
Always wear eye protection.

Chuck removal

The chucks of reversible drills are always fixed by a screw with left-hand thread. The screw, which is located in the centre of the chuck, must be removed before the chuck can be removed.

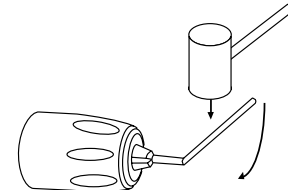
1. Tighten the chuck around the shorter end of a hex key (not supplied) of 1/4" or greater size. Using a wooden mallet or similar object, strike the longer end in the clockwise direction. This will loosen the screw inside the chuck.
2. Open chuck jaws fully.
3. Insert a screwdriver into front of chuck between jaws to engage screw head. Remove screw by turning clockwise.

4. Place a hex key in chuck and tighten. Using a wooden mallet or similar object, strike key sharply in the counterclockwise direction. This will loosen the chuck so that it can be unscrewed by hand.



Chuck installation

1. Screw the chuck on by hand as far as it will go and insert screw (LH thread).
2. Tighten the chuck around the shorter end of a 1/4" or large hex key (not supplied) strike the longer end in the clockwise direction with a wooden mallet.
3. Remove the hex key and open the jaws fully. Tighten the screw in the centre of the chuck firmly.



Hints for use

NOTE. When drilling into masonry the drilling rate is fast and burnout of the tip will occur if the drill bit is not constantly cleared.


- Use only correctly sharpened drill bits, which are suitable for the material being drilled.
- To drill hard materials, firm pressure is required on the power tool. However, excessive pressure does not improve performance and places unnecessary pressure on the tool and its bit.
- When screw driving always use a pilot hole and set the speed dial to low. Press firmly on the screw head and pull the trigger gradually increasing the speed. It is always wiser to test the screw driving on a scrap piece of the same material you are using.
- Larger diameter holes in hard wood, steel and concrete have to be drilled at slower speeds. However, the motor must not be struggling with the operation. If the motor is struggling **DO NOT** continue working, pull the drill clear of the workpiece and run it on fast speed for a minute or so allowing the motor time to cool down before you attempt a little more of the work. If the job is too hard for the drill do not continue otherwise permanent damage to the motor will occur.
- Wire brushing or sanding should be carried out on the highest speed.
- Concrete drilling should be carried out on the highest speed.

DO NOT overload motor when drilling concrete.


DO NOT use too much pressure as the hammer action relies on the drill bit being able to move back and forward in the hole being drilled.

Always clear the flutes of the drill bit by removing it from the hole regularly.

Wood drilling

- For maximum performance, use high speed steel bits for wood drilling.
- Move drilling mode selector to drilling mode .
- Secure the workpiece to prevent it from turning when drilling.
- Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bit bites into the material.
- When drilling through holes, place a block of wood behind the workpiece to prevent ragged or splintered edges on the back side of the hole.
- Do not lock the trigger in the 'on' position when the drill may need to be stopped suddenly.

Metal drilling

- For maximum performance, use high speed steel bits for metal or steel drilling.
- Move drilling mode selector to drilling mode .
- Use a centre punch to mark the hole location on the workpiece.
- Begin drilling at a very low speed to prevent the bit from slipping off the starting point.
- Maintain a speed and pressure which allows cutting without overheating the bit. Applying too much pressure will:
 - Overheat the drill
 - Wear the bearings
 - Bend or burn bits
 - Produce off-centre or irregular shaped holes
- When drilling large holes in metal it is recommended to drill with a small bit at first, then finish with a larger bit. Also, lubricate the bit with oil to improve drilling action and increase bit life.

Masonry drilling

- For maximum performance use tungsten carbide-tipped masonry impact bits when drilling holes in brick, tile, concrete, etc.
- Move drilling mode selector to hammer mode **T**.
- Apply light pressure and medium speed for best results in brick.
- Apply additional pressure and high speed for hard materials such as concrete.
- When drilling in tile, practice on a scrap piece to determine the best speed and pressure.

Cleaning

1. Keep your machine and its cord clean. The outside of the machine can be cleaned using a damp soft cloth with a mild detergent if required.
2. Some maintenance products and solvents may damage the plastic parts; these include products containing benzene, trichloroethylene, chloride and ammonia.
3. Excessive sparking generally indicates the presence of dirt in the motor or abnormal wear on the carbon brushes.
4. Take special care to keep the ventilation inlets/outlets free from obstruction; cleaning with a soft brush followed by a compressed air jet will usually be sufficient to ensure acceptable internal cleanliness.
5. Wear eye protection when carrying out cleaning.

CAUTION. Do not use cleaning agents to clean the plastic parts of the drill.

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.

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)

Register your warranty on line at www.gmcompany.com and enter your receipt details.

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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