



420W
MAGNESIUM
PALM PLANER
PPM
INSTRUCTION MANUAL

GMC®
GLOBAL MACHINERY COMPANY

2 YEAR
REPLACEMENT WARRANTY

Black	Magenta	Code: PPM IM		
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Full 2 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 2-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.

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:	230–240V ~ 50Hz
Input power:	420W
No load speed:	14000min ⁻¹
Planing width:	60mm
Planing depth:	0.1–1.5mm
Net weight:	2.1kg
Insulation class:	Double insulated
Sound pressure level:	81 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 electric planers

- **Wait for the cutter to stop before setting the tool down.** *An exposed cutter may engage the surface leading to possible loss of control and serious injury.*
- 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.

- Ensure your mains supply voltage is the same as your tool rating plate voltage.
- After long working periods, external metal parts and accessories could be hot.
- If possible, always use clamps or a vice to hold your work.
- Always switch off before you put the planer down.
- Do not force the planer: let the tool do the work at a reasonable speed. Overloading will occur if too much pressure is applied and the motor slows resulting in inefficient planing and possible damage to the planer motor.
- Always use a dust extraction system where possible.
- Rags, cloths, cord, string and the like should never be left around the work area.
- Remove all nails, screws and other objects from the workpiece. You can damage the blade and the tool by cutting into a nail or other foreign object. It can also present a safety hazard.
- Handle the blades very carefully.
- Be sure that the blade installation bolts are securely tightened before operation.
- Always wear eye and ear protection and use a dust mask.
- Hold the tool firmly with both hands.
- Keep hands away from rotating parts.
- Before using the tool on an actual workpiece, switch on and let it run for a while. Watch for vibration or wobbling that could indicate poor installation or a poorly balanced blade.
- Make sure that a blade is not in contact with the workpiece when you switch the machine on.
- Wait until the blades attain full speed before cutting.
- Operate the tool at least 200mm away from your face and body.
- Always switch off and wait until the blades have come to a complete standstill before attempting any adjustments.

- Never stick your finger into the chip chute. Shavings may jam in the chute when cutting damp wood. Clean out the chips with a stick but only when the tool has been turned off and unplugged from the power socket.
- Do not leave the machine running unattended. Operate the tool only when controlled by both hands.
- When leaving the planer, switch off and set it with the front base up on a wooden block so that the blades are not in contact with anything.
- Always change the two blades at the same time, otherwise the resulting imbalance will cause vibration and shorten the blade and tool life.

WARNING. Before connecting a tool to a power source (mains socket power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool.

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 hearing if effective hearing protection is not worn.
- Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the blades and adjusting the depth of cut.
- Contact with the blades.
- Reaching under the base whilst the tool is running and making contact with the blade.
- Kickback of workpiece and parts of workpiece.
- Blade fracture.
- Catapulting of faulty pieces from the blade.

Accessories

The GMC PPM Palm Planer is supplied in a storage case with the following accessories:

- Additional set of blades
- Spare drive belt
- Spanner
- Shavings adaptor tube

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 palm planer, 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. On/off switch
2. Lock-off button
3. Depth adjustment knob
4. Handle
5. Dust/chip extraction port
6. Reversible blades
7. Blade barrel
8. Clamping screw
9. Moveable front base
10. Fixed rear base
11. Shavings adaptor tube
12. Spanner
13. Blade protection foot
14. Secondary handle



Setting up

Removing or installing planer blades

CAUTION. Always ensure that the tool is switched off and unplugged from the power supply before installing or removing blades.

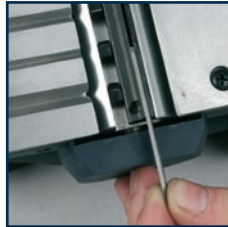
Your planer is fitted with reversible blades.

Blades can be reversed when blunt. After both sides of the blades have been used they should be discarded.

NOTE. These blades cannot be re-sharpened.

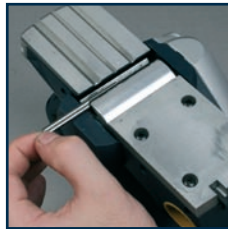
Removing a planer blade

1. Using spanner (12), loosen the three clamping screws (8).
2. Slide the planer blade (6) from the slot in the blade barrel (7) in which it is retained.



Installing a planer blade

1. Either turn over the planer blade (6) or replace it if required.
2. Slide the good blade face up into the blade support block of the blade barrel (7).



NOTE. The ridge along the blade should be on the blade face on the opposite side to the clamping screws (8).

3. Tighten the clamping screws (8), ensuring they are tightened evenly.
4. Repeat for the second blade.



NOTE. Always change both blades at the same time, otherwise the resulting imbalance can cause vibration and shorten the blade and tool life.

CAUTION. When installing blades, first clean out all chips or foreign matter adhering to the blade barrel (7) and the blades themselves. Use blades of the same dimensions and weight, or the barrel will oscillate and vibrate causing poor planing action and possibly a machine breakdown. Tighten the clamping screws (8) carefully when attaching the blades to the planer. A loose clamping screw could be extremely dangerous. Regularly check to see they are tightened securely.

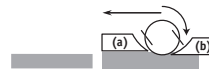
NOTE. Your planing surface will end up rough and uneven unless the blades are set properly and securely. The blades must be mounted so that the cutting edge is absolutely level, i.e. parallel to the surface of the rear base (10).

The examples below show proper and improper settings:

Correct setting

- Front base (moveable shoe) (9)
- Rear base (stationary shoe) (10)

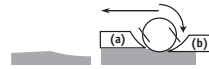
Clean smooth cut



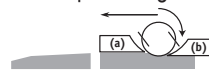
Nicks in surface – as caused by the edge of one or all blades not being parallel to the rear base line.



Gouging at start – as caused by the edge of one or all blades not protruding enough in relation to the rear base line.



Gouging at end – as caused by the edge of one or all blades protruding too far in relation to the rear base line.



Adjusting the depth of cut

CAUTION. Always ensure that the tool is switched off and unplugged from the power supply before making adjustments or installing or removing blades.

Rotate the depth adjustment knob (3) clockwise for a deeper cut and anti-clockwise for a shallower cut.

The numbers on the ring under the depth adjustment knob indicate the depth of cut.

Example, when “1” is next to the pointer on the front of the planer, the depth of cut is approximately 1mm. If it is necessary to accurately determine the depth of cut, plane a scrap piece of wood, measure the difference in thickness and adjust the setting if necessary.



Switching on and off

CAUTION. Before plugging the machine into the power socket always check that the on/off switch (1) and lock-off button (2) work properly.

1. Plug in the machine and grip the tool with your thumb on the on/off switch (1).
2. Push lock-off button (2) forward and press in the on/off switch (1) with the thumb of the hand gripping the tool. You can release the finger hold on the lock off button (2) once the planer has started.
3. To stop the tool, release the thumb hold on the on/off button (1).
4. In order to restart the machine, it is necessary to operate both the lock-off button (2) and the on/off switch (1). This is an important safety feature that helps prevent



accidental operation of the planer. Only when you release the thumb hold on the on/off button (1) will the planer stop.

Planing

1. Rest the front base (9) flat on the workpiece surface without the blades making any contact with the workpiece.
2. Switch on the tool and wait for the blades to reach full speed.
3. Move the tool gently forward, applying pressure on the front of the tool, using your hand on the secondary handle (14) at the start of planing and pressure at the rear of the tool, using your hand on the main handle (4) towards the end of the planing stroke.
4. Push the planer beyond the edge of the workpiece without tilting it downwards.



NOTE. Planing is easier if you incline the workpiece slightly away from you so that you plane “downhill”.

5. The rate of planing and the depth of cut determine the quality of the finish. For rough cutting, you can increase the depth of cut, however to achieve a good finish you will need to reduce the depth of cut and advance the tool more slowly.

CAUTION. Moving the machine too fast may cause a poor quality of cut and can damage the blades or the motor.

Moving the machine too slowly may burn or mar the cut. The proper feed rate will depend on the type of material being cut and the depth of the cut. Practice first on a scrap piece of material to gauge the correct feed rate and the cut dimensions.

CAUTION. Always use two hands to hold the planer.

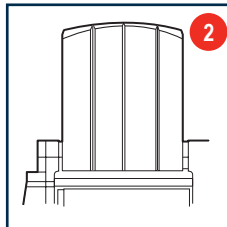
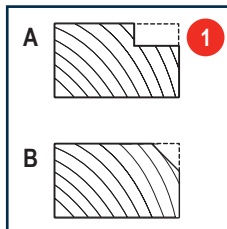
CAUTION. Where possible, clamp the workpiece to the bench.

- In between operations, you can rest the planer on a flat surface with the blade protection foot (13) hinged down to support the planer so that the blades are kept clear of the surface.



Chamfering and rebating

- To make a chamfered or rebate cut as shown in fig.1, First align one of the three "v" grooves (fig.2) in the front base (9) of the planer with the corner edge of the workpiece.
- Choose the "v" groove to suit the required depth of chamfer/ rebate.
- Run the planer along the corner edge.



Shavings extraction

- Connect the shavings adaptor tube (11) to the dust/chip extraction port (5).
- The adaptor tube (11) can be installed to allow shavings to flow either to the left or to the right of the workpiece.
- A workshop dust extraction system or a household vacuum cleaner can be connected to the adaptor tube (11) for the efficient removal of dust and shavings permitting a safer and cleaner working environment, need to add dust extraction tube.



Drive belt replacement

CAUTION. Always ensure that the tool is switched off and unplugged from the power supply before making adjustments or installing or removing blades. Also ensure planer is in park and during blade replacement keep hands well away from the blade barrel area. It is also suggested that you wear leather gloves to change the belt in case you make contact with the blades.

- To replace the drive belt first take out the three cross-head screws that secure the drive belt cover on the left-hand side of the planer as viewed from the rear.
- Remove the damaged belt and use a soft brush to clean the pulleys and the surrounding area.

NOTE. Wear eye protection when cleaning out the pulley area.

- With the three continuous "v" profiles on the inside, place the new belt over the bottom pulley. Half fit the other end of the belt on the top pulley then roll the belt in place whilst turning the pulley.
- Check that the belt runs evenly by manually turning the belt.
- Replace the cover and the three fixing screws.
- Replace the electrical plug and run the planer for a minute or two to make sure that the motor and belt are operating correctly.

Maintenance

WARNING. Always ensure that the tool is switched off and the plug is removed from the power point before making any adjustments or maintenance procedures.

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

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.
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.

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

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