



1300W
MAGNESIUM
184MM (7 1/4")
MULTI FUNCTION
CIRCULAR SAW

MPS184M
INSTRUCTION MANUAL

GMC®
GLOBAL MACHINERY COMPANY

Black

Magenta

Code: MPS184M

Cyan

Yellow

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Warranty Power Tools

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.

The product is warranted for a 2-year repair warranty for home domestic use from the date of original purchase. If found to be defective in materials or workmanship, the tool will be repaired free of charge.

A small freight charge may apply. 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 items or included accessories. Only the power tool is covered under this warranty.

With continuing product development, changes may have occurred which render the product received slightly different to that shown in this instruction manual.

Please ensure that you store your receipt in a safe place.

Conditions apply to the above warranty. For full details of the warranty terms and conditions please refer to our website – www.gmcompany.com

For prompt service we suggest you log your service request online - www.gmcservice.com.au, should you not have access to the internet, please contact our service department on 1300 880 001 (Australia) or 0800 445 721 (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.



Conforms to relevant standards for electromagnetic compatibility.

N380

Specifications

Voltage:	230 – 240V ~ 50 Hz
Power rating:	1300W
Max. duty cycle:	30 minutes
No load speed:	3500 min ⁻¹
Blade diameter:	184mm (7 1/4")
Blade teeth:	36 TCT
Blade arbour:	20mm
Blade kerf:	2.2mm
Bevel capacity:	0° to 45°
Cutting wood:	Depth of cut at 90°: 52mm Depth of cut at 45°: 30mm
Cutting metal (mild steel plate)	
Optimum cutting thickness:	6mm
Electrical insulation:	Double insulated
Weight:	6.2kg

This tool is double insulated. There are two independent barriers of insulation to protect you from the possibility of electric shock.

The sound intensity level for the operator may exceed 85dB(A) and sound protection measures are necessary.

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 circular saws

WARNING! The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

DANGER

- a. **Keep hands away from cutting area and the blade.** Keep your second hand on auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- b. **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- c. **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
- d. **Never hold piece being cut in your hands or across your leg.** Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- e. **Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- f. **When ripping always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
- g. **Always use blades with correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- h. **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Causes and operator prevention of kickback:

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a. Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces.** Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- b. When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop.** Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- c. When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material.** If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- d. Support large panels to minimise the risk of blade pinching and kickback.** Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

e. Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

f. Blade depth and bevel adjusting locking levers must be tight and secure before making cut.

If blade adjustment shifts while cutting, it may cause binding and kickback.

g. Use extra caution when making a “plunge cut” into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

The protruding blade may cut objects that can cause kickback.

a. Check lower guard for proper closing before each use.

Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.

b. Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

c. Lower guard should be retracted manually only for special cuts such as “plunge cuts” and “compound cuts.” Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.

d. Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

e. Do not use abrasive wheels.

Accessories

The GMC MPS184M Circular Saw is supplied with the following accessories as standard:

1. 36T thin-kerf (2.2mm) TCT blade (fitted)
2. Blade wrench
3. Rip fence
4. Wood cutting dust extraction adaptor
5. 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.

Assembly

The GMC circular saw is packed, fully assembled except for the rip fence.

Know your product

1. Power on indicator
2. Trigger switch
3. Lock-off button
4. Motor housing
5. Handle
6. Bevel adjustment lever
7. Bevel scale
8. Parallel fence locking knob
9. Parallel fence
10. Cover release knob (front)
11. Cover release knob (rear)
12. Dust extraction plug
13. Removable cover section
14. Swarf/chip site glass
15. Lower blade guard
16. Base plate
17. Upper blade guard
18. Dust extraction port
19. Depth locking lever
20. Depth of cut indicator
21. Spindle lock lever
22. Blade
23. Blade wrench
24. Blade guide notch
25. Parallel fence slots
26. Blade rotation indicator
27. Overload protection reset switch
28. Wood cutting dust extraction adaptor



Overview

You have purchased a 1300W Magnesium Multi Function Circular Saw that can cut both ferrous and non ferrous metals quickly, cleanly and efficiently, as well as PVC pipe and soft and hard timbers - all with the same blade. It can even saw through wood containing nails!

The finished cut is burr free and there are virtually no sparks.

The saw utilises cold cutting technology and thus requires no coolant. The metal can be handled as soon as it is cut, saving time and adding to the safety of operation.

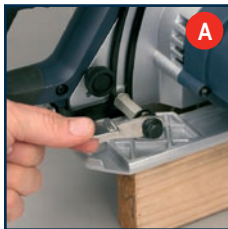
By loosening the bevel adjustment lever (6), the body and the blade of the saw can be tilted to any angle up to 45° for making angle cuts. Please note that the maximum depth of cut is reduced when cutting at an angle.

A fixed upper blade guard (17) encloses the upper part of the blade. As the saw advances through the work piece, the pivoting lower blade guard (15) is pushed back by the edge of the wood to expose only that part of the blade which is needed. When the blade clears the work, the spring loaded lower blade guard snaps back to completely enclose the blade.

Adjusting the cutting depth

CAUTION. Always ensure that the saw is switched off and unplugged from the power supply before making any adjustments.

1. Ensure that the saw is facing away from you.
2. Loosen the depth locking lever (19) (Fig. A).



3. Hold the base plate flat against the edge of the work piece and lift the body of the saw until the blade is at the

right depth (Fig. B). Use the depth of cut indicator (20) to determine the cutting depth.

4. Tighten the depth locking lever (19).

Note. Always use the correct blade depth setting.

The correct blade depth setting for all cuts should not be more than (6.35mm) 1/4" below the material being cut. Allowing more depth will increase the chance of kickback and result in a rough cut.

Note. The maximum depth of cut for mild steel plate is 6mm.

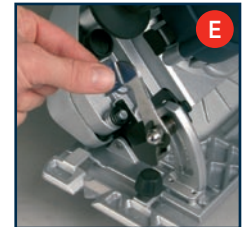
Adjusting the bevel angle

CAUTION. Always ensure that the saw is switched off and unplugged from the power supply before making any adjustments.

1. The saw can be adjusted to cut at any angle between 0° and 45°.
2. Loosen the bevel adjustment lever (6) located at the front of the base plate (Fig. C).



3. Tilt the body of the saw until the required angle is reached (Fig. D) using the bevel scale (7) as a guide.
4. Tighten the bevel adjustment lever (6) to secure the base plate (Fig. E).



Note. Always make a trial cut in a scrap piece of material along a guideline to determine how much you should offset the blade from the guideline to make an accurate cut.

Switching on and off

1. Connect the plug to the power supply. The neon indicator (1) indicates that power is connected to the tool (Fig. F).
2. Depress the lock-off button (3) (Fig. G) and squeeze the trigger switch (2) (Fig. H).

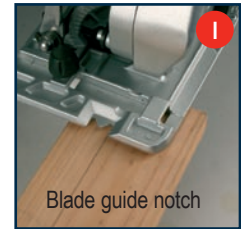


3. The blade will take approximately 2 seconds to reach full speed.
4. When you release the trigger, the machine turns off and the lock-off button re-engages to prevent accidental operation.

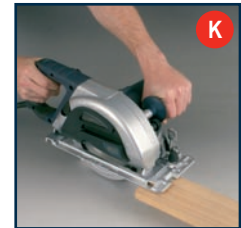
CAUTION. Allow the blade to come to a complete standstill before setting the saw down.

Making a cut

1. Mark the line of cut on the workpiece.
2. Adjust the depth of cut and bevel angle as required.
3. When making 90° cross or rip cuts, align your line of cut with the outer blade guide notch on the base of the saw (Fig. I).
4. When making 45° bevel cuts, align your line of cut with the inner blade guide notch on the base of the saw.
5. Rest the front edge of the base on the workpiece (Fig. J).
6. Start the motor by depressing the lock-off button (3) and squeezing the trigger switch (2).



- Note.** Always let the blade reach full speed (approximately 2 seconds) before you begin to cut into the work piece.
7. Slowly push the saw forward using both hands (Fig. K).
 8. When making a cut always use steady, even pressure. Forcing the saw causes rough cuts and could shorten the life of the saw or cause kickback. Allow the blade and the saw to do the work.



9. After completing your cut, release the trigger switch and allow the blade to come to a complete stop. Do not remove the saw from the work piece while the blade is moving.

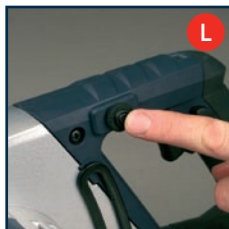
Note. Since blade thickness varies, always make a trial cut in scrap material along the guideline to determine how much, if any, the guideline must be offset to get an accurate cut.

Overload cutout

The saw should not be overloaded through attempts to take too deep a cut, too fast a cut or operated for too long. The saw should not be operated for more than 30 minutes continuously after which time it should be allowed to cool for a period of at least 5 minutes.

If overloaded, the thermal overload circuit will trip. The button of the reset switch (27) is partially ejected and the saw motor cuts out. Restore power as follows.

1. Wait until the motor has cooled (approx. 5 minutes).
2. Depress the reset switch (27) (Fig. L).
3. Check that the saw is again operational and restart taking care not to duplicate the circumstances that caused the original overload.



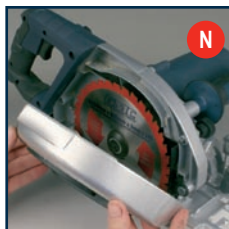
Removing swarf and chips

1. The swarf and chips are collected within the removable cover section of the handle. This provides a further safety measure as it helps suppress sparks caused by metal swarf.
2. Periodically check the level of chips and swarf in the chamber as seen through the site glass (14) (Fig. M).

When the chamber is about 3/4 full, it must be emptied as follows.

3. Switch off the saw and unplug it from the mains supply.
4. Unscrew the cover release knobs (10 and 11) and take off cover section (13) (Fig. N).

Note. Setting the saw to a 30 degree bevel makes it easier to access the release knobs (10 and 11).



5. Dispose of the swarf and chips and wipe the collection chamber clean.
6. Replace the cover section (13) and the knobs (10 and 11).

Using a dust collection system

WARNING. A vacuum or other type of dust collection system must not be used when cutting metal. It can cause an explosion!

1. For cutting wood only. Remove the dust extraction plug (12) (Fig. O).
2. Use the same fixing screw to attach the wood cutting dust extraction adaptor (28) to the saw (Fig. P).
3. Connect the saw to a dust extraction system.
4. When it is desired to change the workpieces from wood to metal, any dust extraction system connected to the saw **MUST** be disconnected and the dust extraction plug (12) replaced.

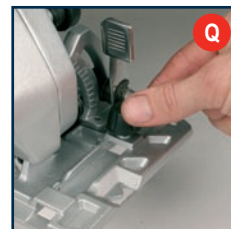


Using the parallel fence

The parallel fence (9) allows you to make parallel cuts in a workpiece, all at the same width.

CAUTION. Always ensure that the saw is switched off and unplugged from the power supply before making any adjustments.

1. Loosen the parallel fence locking knob (8) (Fig. Q).
2. Slide the parallel fence (9) through the parallel fence slots (25) in the base plate (16) (Fig. R).



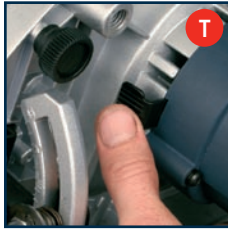
- Adjust the parallel fence to the required width and secure it in position with the parallel fence locking knob (8).
- Ensure that the parallel fence rests against the workpiece along its entire length to give a consistent parallel cut (Fig. S).



Changing the blade

CAUTION. Always ensure that the saw is switched off and unplugged from the power supply before making any adjustments.

- Place saw on its side on a flat surface.
- Rotate the saw blade by hand whilst depressing the spindle lock lever (21) until the blade locks (Fig. T).



- Whilst depressing the spindle lock lever, turn the blade bolt anti-clockwise using the wrench provided (Fig. U).
- Remove the outer blade flange and the blade bolt.
- Raise the lower blade guard (15).
- Remove the saw blade from the inner flange and pull it out (Fig. V).
- Clean the saw blade flanges thoroughly before mounting the new saw blade. Wipe a drop of oil onto the inner and outer flange where they will touch the blade.



- Mount the new saw blade onto the spindle and against the inner flange.
- Replace the outer flange and tighten the blade bolt (Fig. W).



WARNING. The direction in which the blade rotates has to be the same as the direction of the arrow marked on the housing (26).

- Ensure that the spindle lock lever (21) is released.
- Before using the saw again, check that the safety devices are in good working order.

IMPORTANT. After replacing the saw blade, make sure that the saw blade runs freely by turning the blade by hand.

- Plug the machine into a power socket and run the saw under no load to check that it runs smoothly before using it to cut any material.

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.

Cleaning

- Keep the tool's air vents unclogged and clean at all times.
- Remove dust and dirt regularly. Cleaning is best done with a rag.
- Re-lubricate all moving parts at regular intervals.
- If the body of the saw needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but nothing like alcohol, petrol or other cleaning agent.
- 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. They may vibrate loose over time.

Power cord maintenance

If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or a qualified electrical service repairer to avoid a safety hazard.

Troubleshooting

Trouble	Problem	Suggested remedy
Saw will not start	Power cord not plugged in	Ensure that the cord is connected to the power supply
	Overload circuit tripped	Wait 5 minutes for saw to cool, depress reset switch on saw then restart
	Power fault, fuse or circuit breaker tripped	Check the power supply
	Cord damaged	Use authorised service centre to repair or replace
	Burned out switch	Use authorised service centre to repair or replace
	Faulty motor	Use authorised service centre to repair or replace the motor
Blade does not reach full speed	Tool is overheating	Turn off the tool and let it cool down to room temperature. Inspect and clean the ventilation slots
Poor cutting	Blunt blade	Replace or sharpen circular saw blade
Vibration or abnormal noise	Loose parts	Check to see that all knobs and levers are securely tightened including bevel adjustment knob, depth locking lever and parallel fence locking knob
	Blade vibrating	Ensure that the blade nut is securely tightened
	Moving parts excessively worn	Use a qualified electrical service repairer to repair or replace

GMC customer assist

If your product needs repairing or you simply need help or advice, please contact us on our Customer Assist Line 1300 880 001 (Australia) or 0800 445 721 (New Zealand).

For prompt service we suggest you log your service request online at www.gmcservice.com.au. Should you not have access to the Internet, please contact our service department on 1300 880 001 (Australia) or 0800 445 721 (New Zealand). 7am – 7pm, 7days a week (AEST).

Please note that if repair is required, you must provide a valid original purchase receipt.

You will need the following details at hand to log your service request;

Personal details: First & Last name, address, pick up address, contact phone numbers, email address

Product details: Product number, date of purchase, retailer bought from, State & postcode, receipt number, reason for the request, copy of official purchase receipt

Attach your purchase receipt and save with this Manual for future reference.

Please refer to our website www.gmcompany.com for full GMC warranty Terms and Conditions.



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