

AUTOMATIC

**INSTRUCTION MANUAL
CS184-A**



**1500W
184mm (7 1/4")
Circular Saw**

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Warranty Power Tools

1 Year Repair Warranty.

Register your warranty at www.automatictools.com.au

All warranty conditions can be found on the www.automatictools.com.au website or email help@globalpowerbrands.com or call 1800 909 909

Introduction

Your new AUTOMATIC power tool will more than satisfy your expectations. It has been manufactured under stringent AUTOMATIC 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 AUTOMATIC Power Tool. Take special care to heed the Cautions and Warnings.

Your AUTOMATIC 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.



For safe operation read instruction manual.



Double insulated for additional protection.



Conforms to relevant standards for electromagnetic compatibility.

N25652



5424



Regulatory Compliance Mark. Appliance complies with requirements of electrical approval & EMC in Australia

Do not throw the electronic waste products into the domestic waste refuse. Such products must be delivered to a recycling centre.

Specifications

Model #	CS184-A
Voltage:	230 – 240V ~ 50 Hz
Power rating:	1500W
No load speed:	5500 min ⁻¹
Blade diameter:	184mm
Blade teeth:	24 TCT
Blade arbour:	16mm
Blade kerf:	2.5mm
Bevel capacity:	0° to 45°
Depth of cut at 90°:	66mm
Depth of cut at 45°:	45mm
Electrical insulation:	Double insulated
Weight:	4.0kg

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 safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or 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.

- f) **To reduce the risk of electric shock, the manufacturer recommends the use of a residual current device with a rated residual current of 30mA or less at all times.**

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 personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising 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 dust collection 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 and/or the battery pack from the power tool 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 tool's 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, 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.
- h) **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge,** unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

- i) **Children should be supervised to ensure that they do not play with the appliance.**

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.

CAUTION. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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.
- 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.

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.
- 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

WARNING. We recommend the use of a residual current device with a residual current rating of 30mA or less.

Wear goggles

Wear earmuffs

Wear a breathing mask

Accessories

The Automatic Circular saw is supplied with the following accessories as standard:

1. 184 mm (7 1/4”) TCT Blade (fitted)
2. Blade Wrench
3. Parallel Fence
4. Instruction manual

Unpacking

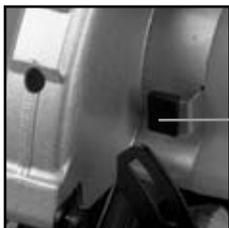
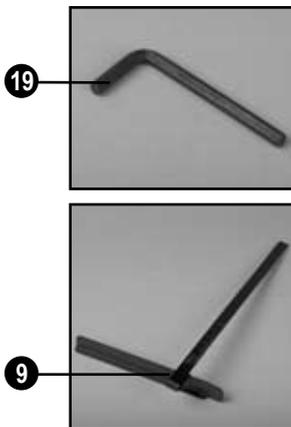
Due to modern mass production techniques, it is unlikely that your Automatic Power Tool is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

Assembly

The Automatic circular saw is packed fully assembled, except for the Parallel Fence which will need to be attached.

Know your product

1. On/Off Trigger switch
2. Lock-off button
3. Motor housing
4. Main handle
5. Front handle
6. Bevel adjustment knob
7. Bevel scale
8. Parallel fence locking wingnut
9. Parallel fence
10. Blade guard lever
11. Lower blade guard
12. Base plate
13. Upper blade guard
14. Dust extraction port
15. Depth locking knob
16. Depth of cut indicator
17. Spindle lock button
18. Blade
19. Blade Wrench
20. Blade guide notch
21. Parallel fence slots
22. Blade rotation indicator
23. Outer flange
24. Inner flange (not visible)
25. Blade bolt



Overview

You have purchased an Automatic Circular Saw.

Please refer to the safety instructions given earlier in this manual for important instructions.

The saw is capable of ripping and cross cutting hardwoods, softwoods and man made boards quickly, accurately and safely.

By loosening the bevel adjustment knob, 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.

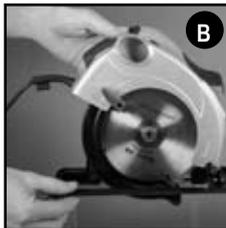
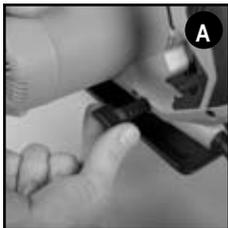
The fixed upper blade guard encloses the upper part of the blade. As the saw advances through the work piece, the pivoting lower blade guard is pushed back by the edge of the wood to expose only that part of the blade which is needed. When the blade clears the work, the spring loaded lower blade guard 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 knob (15).
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 to determine the approximate cutting depth the cutting depth.
4. Tighten the Depth Locking knob (15).

Note. Always use the correct blade depth setting.

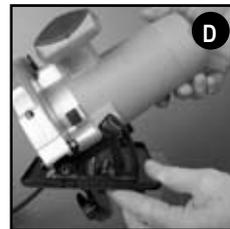
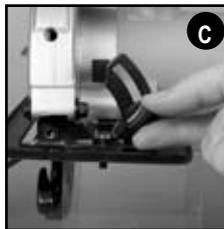


The correct blade depth setting for all cuts should not be more than (6.35mm) 1/4" below the material being cut. Allowing more depth will increase the chance of kickback and result in a rough cut.

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°. When making 45° bevel cuts, there is a notch in the saw base to help you line up the blade with the line of cut. Align your line of cut with the inner blade guide notch on the base of the saw when making 45° bevel cuts.
2. Loosen the bevel adjustment knob (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 as a guide.



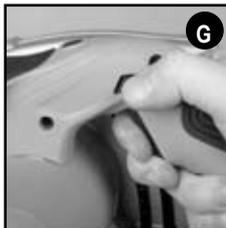
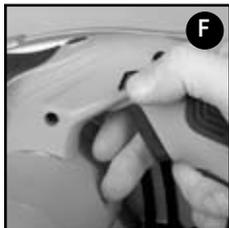
4. Tighten the bevel adjustment knob (6) to secure the base plate (Fig. E).



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.
2. **To turn on**, depress the lock-off button (Fig. F) and squeeze the On/Off trigger switch (Fig. G).



3. The blade will take approximately 2 seconds to reach full speed.
4. **To Turn OFF**, release the On/Off trigger switch, the machine turns off and the lock-off button re-engages to prevent accidental operation.

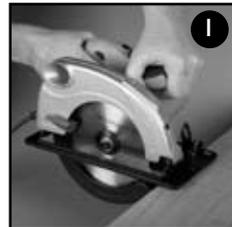
CAUTION. Allow the blade to come to a complete standstill before setting the saw down.

Making a cut

1. Mark the line of cut on the work piece.
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. Ha).
4. When making 45° bevel cuts, align your line of cut with the inner blade guide notch on the base of the saw. (Fig. Hb).



5. Rest the front edge of the base on the work piece (Fig. I).
6. Start the motor by depressing the lock-off button and squeezing the On/Off trigger switch.



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. J).
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.



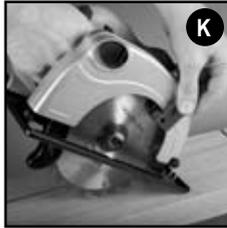
9. After completing your cut, release the trigger switch and allow the blade to come to a complete stop. Do not remove the saw from the work piece while the blade is moving.

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 for the job being performed.

Making a pocket cut

1. Adjust the depth of cut as required.
2. Adjust the bevel setting to 0°.

3. Raise the lower blade guard lever to expose the saw blade and firmly rest the front of the base flat against the work piece with the rear handle raised so the blade does not touch the work piece (Fig. K).



4. With the blade just clearing the work piece, start the motor by depressing the lock-off button and squeezing the trigger switch.
5. Always let the blade reach full speed (approximately 2 seconds) before you begin to cut into the work piece.
6. Slowly lower the saw into the work piece, using the front of the base resting on the work piece as a hinge point.

WARNING. As soon as the blade starts cutting the material, release the lower blade guard lever.

7. Once the base plate is flat against the work piece, proceed cutting in a forward direction to the end of the cut.
8. 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.

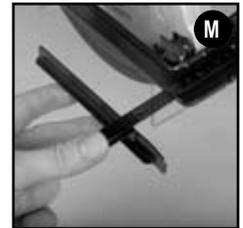
Note. If the corners of your pocket cut are not completely cut through, use a jigsaw or hand saw to finish the corners.

Using the parallel fence

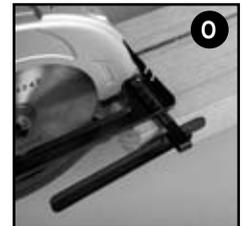
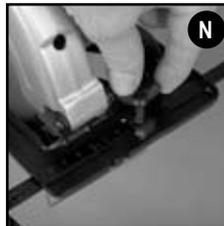
The parallel fence allows you to make parallel cuts in a sheet of wood, all at the same width.

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 wing nut (Fig. L).
2. Slide the parallel fence through the parallel fence slots in the base plate (Fig. M).



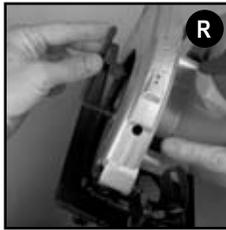
3. Adjust the parallel fence to the required width and secure it in position with the parallel fence locking wing nut (Fig. N).
4. Ensure that the parallel fence rests against the wood along its entire length to give a consistent parallel cut (Fig. O).



Changing the blade

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

1. Place saw on its side on a flat surface.
2. Rotate the saw blade by hand whilst depressing the spindle lock button until the blade locks (Fig. Q).
3. Whilst depressing the spindle lock button, turn the blade bolt anti-clockwise using the Blade Wrench provided (Fig. R).



4. Remove the outer blade flange and the blade bolt.
5. Raise the lower blade guard using the blade guard lever.
6. Remove the saw blade from the inner flange and pull it out (Fig. S)
7. 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.



8. Mount the new saw blade onto the spindle and against the inner flange. Check the direction of rotation of the blade matches the direction arrow on the saw guard.

Check the speed rating of the blade exceeds the No load speed rating on the saw.
Blade must be 5500 minimum rating for this saw.

9. Replace the outer flange and tighten the blade bolt (Fig. T).



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

10. Ensure that the spindle lock button is released.
11. 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.

12. 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

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. 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.
5. 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
	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

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