

INSTRUCTION MANUAL

20V max* LITHIUM-ION CORDLESS CIRCULAR SAW

054-8332-4

If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.



Read and understand this instruction manual thoroughly before using the product. It contains important information for your safety as well as operating and maintenance advice.

Keep this instruction manual for future use. Should this product be passed on to a third party, then this instruction manual must be included.



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MOTOR	20V max* DC
BLADE	5 1/2" (18-tooth)
BLADE ARBOR	3/8" <i>(10 mm)</i>
NO-LOAD SPEED	4500 RPM
BEVEL CAPACITY	0–50°
MAXIMUM CUTTING DEPTH	1 1/2" <i>(38 mm)</i> at 90° 1 1/16" <i>(27 mm)</i> at 45°
CORDLESS CIRCULAR SAW WEIGHT (WITHOUT BATTERY)	4 lb 14 oz <i>(2.2 kg)</i>
BATTERY TYPE	Lithium-lon
BATTERY VOLTAGE	20V max* DC
COMPATIBLE BATTERIES	1.3 Ah Li-ion <i>(054-3124-0)</i> 2.6 Ah Li-ion <i>(054-3125-8)</i>
BATTERY CHARGER	1-hour, diagnostic <i>(054-3126-6)</i>

^{*}Maximum battery voltage without workload; with workload nominal voltage is 18V.



WARNING!

Safety symbols in this Instruction Manual are used to flag possible dangers. The safety symbols and their explanations require your full understanding. The safety warnings do not, by themselves, eliminate any danger, nor are they substitutes for proper accident prevention measures.



WARNING!

This Safety Alert Symbol indicates caution, warning, or danger, Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

Know your tool

To operate this tool, carefully read this Instruction Manual and all labels affixed to the Cordless Circular Saw before using. Keep this Instruction Manual available for future reference.

Important

This tool should only be serviced by a qualified service technician. For more information, call the toll-free helpline at 1-800-689-9928.

READ ALL INSTRUCTIONS THOROUGHLY. SAVE THESE INSTRUCTIONS.

Safety guidelines for cordless power tools



WARNING!

Read all safety warnings and 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.

Work area safety

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



Electrical safety

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

Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use 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.
- Prevent unintentional starting. Ensure that the switch is in the off-position before connecting to a power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- · Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, iewelry or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used. Use of these devices can reduce dust-related hazards.

Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and more safely at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source 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.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories, 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.

Battery tool use and care

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. The use of any other battery pack may create a risk of injury and fire.
- . When the battery pack is not in use, keep it away from other metal objects, such as paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery. Avoid contact. If contact occurs, flush with water. If liquid comes into contact with the eyes, seek medical help. Liquid ejected from the battery may cause irritation or burns.

Service

 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.



Specific safety guidelines for circular saws



DANGER!

Keep hands away from the cutting area and the blade. Keep both hands on the auxiliary handle or motor housing. If both hands are holding the saw, they cannot be cut by the blade.



WARNING!

To reduce the risk of electric shock or damage to the charger and battery, use only the batteries and charger listed.

BATTERY PACK	CHARGER		
054-3124-0	054-3126-6		
054-3125-8	004-3120-0		

- Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade should be visible below the workpiece.
- Never hold the 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.
- Hold the power tool by its 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.
- When rip cutting, always use a rip fence or straight edge guide. This improves the accuracy of the
 cut and reduces the chance of blade binding.
- Always use blades with correct size and shape (diamond versus round) arbour holes. Blades that
 do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- 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.

Further safety guidelines for all saws

CAUSE AND OPERATOR PREVENTION OF KICKBACK:

Kickback is 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.



SAFETY GUIDELINES

- 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 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:

- 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.
- When the 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.
- Before restarting the 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.
- Support larger panels to minimise the risk of blade pinching and kickback. Larger panels tend to sag under their own eight. Supports must be placed under the panel on both sides; near the line of cut and near the edge of the panel.
- Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf. causing excessive friction, blade binding and kickback.
- . Blade-depth and bevel-adjusting locking levers must be tight and secure before making a cut. If the blade adjustment shifts while cutting, it may cause binding and kickback.
- 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.

SAFETY GUIDELINES FOR LOWER BLADE GUARD

- Check the lower quard for proper closing before each use. Do not operate the saw if the lower quard does not move freely and close instantly. Never clamp or tie the lower quard into the open position. If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure that it moves freely and does not touch the blade or any other part, at all angles and all depths of cut.
- Check the operation of the lower quard spring. If the quard and the spring are not operating properly. they must be serviced before use. A lower quard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.



- The lower quard should be retracted manually only for special cuts, such as "plunge cuts" and "compound cuts". Raise the lower quard with the retracting handle and, as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should be allowed to operate automatically.
- Always observe that the lower guard is covering the blade before placing the saw down on the 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.

Additional safety guidelines for circular saws

- · Always wear a dust mask.
- · Only use recommended saw blades.
- Always wear hearing protection.
- Do not use any abrasive wheels.
- Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone, also lend these instructions to them to prevent misuse of the product and possible injury.

Contents

Cordless Circular Saw, Hex Wrench, Instruction Manual

Available Separately: Edge guide (#54-8332-ED): call Customer Service 1-800-689-9928 to order.



WARNING!

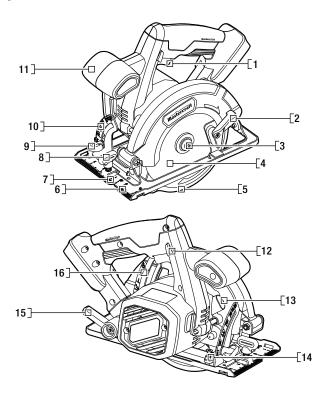
Remove the Cordless Circular Saw from the package, and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.



WARNING!

If any part of the Cordless Circular Saw is missing or damaged, do not attach the battery pack to the tool or use the tool until the part has been repaired or replaced. Failure to heed this warning could result in serious injury.

Know your cordless circular saw



No.	Description	No.	Description
1	Trigger Switch	9	Bevel-Adjustment Knob
2	Lower Blade-Guard Lever	10	Bevel Scale
3	Blade Screw	11	Auxiliary Handle
4	Blade	12	Lock-Off Button
5	Lower Blade Guard	13	Spindle-Lock Button
6	0° Blade-Guide Notch	14	0° Bevel-Stop Adjusting Screw
7	45° Blade-Guide Notch	15	Depth-of-Cut Quick Adjustment Lever
8	Edge-Guide Locking Knob	16	Depth Scale

Before attempting to use this tool, become familiar with all of its operating features and safety requirements. For optimum performance and safety, read the following operating instructions carefully before using this product.



WARNING!

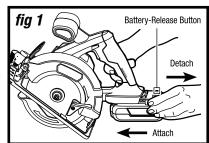
The safe use of this product requires an understanding of the information on the tool and in this instruction manual, as well as knowledge of the operation you are performing. Before use of this product, familiarize yourself with all operating features and safety rules.

To attach battery pack (fig 1)

- 1. Make sure that the circular saw is turned off.
- 2. Align the raised rib on the battery pack with the grooves on the bottom of the saw, and then attach the battery pack to the saw.

NOTE: When attaching the battery pack to the tool, make sure that the raised platform on the pack aligns with the grooves on the bottom of the tool main handle and that the latches snap properly into

place. Improper assembly of the battery pack can cause damage to internal components.



To detach battery pack (fig 1)

- 1. Make sure that the circular saw is turned off.
- 2. Depress the battery-release button located on the front of the battery pack to release the battery pack.
- 3. Pull forward on the battery pack to remove it from the tool.

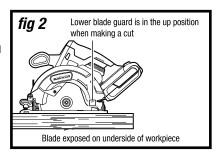


WARNING!

Battery tools are always in operating condition. Therefore, the circular saw should always be turned off when not in use or when carrying the tool at your side.

Blade quard system (fig 2)

The lower blade quard attached to your circular saw is there for your protection and safety. It should never be altered for any reason. If it becomes damaged or begins to return slowly or sluggishly, do not operate the saw until the lower blade quard has been repaired or replaced. Always leave the lower blade guard in its correct operating position when using the saw.





DANGER!

When sawing through a workpiece, the lower blade guard does not cover the blade on the underside of the workpiece. Since the blade is exposed on the underside of the workpiece, ALWAYS keep hands and fingers away from the cutting area. Serious injury will result if any part of the body comes into contact with the moving blade.



OPERATING INSTRUCTIONS



WARNING!

Never use the saw when the lower blade guard is not operating properly. The lower blade guard should be checked for correct operation before each use. If you drop your saw, check the lower blade guard and bumper for damage at all depth settings before using.



WARNING!

When using the saw, always stay alert and exercise control. Do not remove the saw from the workpiece while the blade is moving.

Saw blades

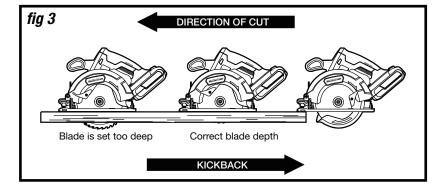
Even the best of saw blades will not cut efficiently unless it is kept clean, sharp and properly set. Using a dull blade places a heavy load on the saw and increases the danger of kickback. Keep extra blades on hand, so sharp blades are always available. Gum and wood pitch hardened on the blade slows the saw down. Use gum and pitch remover, hot water or kerosene to remove them. Do not use gasoline.



WARNING!

Always remove the battery pack from the saw when assembling parts, changing blades and making adjustments. Failure to obey this warning could cause serious personal injury.

Kickback (fig 3-6)

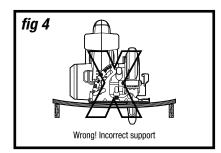


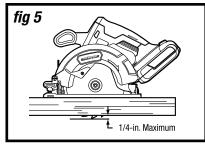
PERATING INSTRUCTIONS

Kickback occurs when the blade stalls rapidly and the saw is driven back towards the operator. Blade stalling is caused by any action that pinches the blade in the wood. Loss of control can lead to serious injury.

To guard against kickback, avoid unsafe practices such as the following:

- · Setting the blade depth incorrectly.
- Sawing into knots or nails in the workpiece.
- Twisting the blade while making a cut.
- . Making a cut with a dull, gummed up, or improperly set blade.
- Supporting the workpiece incorrectly (fig 4).
- · Forcing a cut.
- Cutting warped or wet lumber.
- Operating the tool incorrectly or misusing the tool.
- Attempting to cut with the blade at less than full speed.





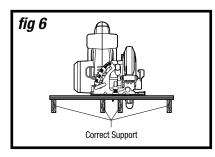


WARNING!

When using the saw, always stay alert and exercise control. Do not remove the saw from the workpiece while the blade is moving.

To reduce the chance of kickback:

- Keep the blade at the correct depth setting. The depth setting should not exceed 1/4 inch below the material being cut (fig 5).
- Inspect the workpiece for knots or nails before cutting. Never saw into a knot or nail.
- . Make straight cuts. Always use a straight edge guide when rip cutting. This helps keep the blade from twisting.
- Use clean, sharp, and properly set blades. Never make cuts with dull blades.
- Support the workpiece properly before beginning a cut (fig 6).
- Use steady, even pressure when making a cut. Never force a cut.





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OPERATING INSTRUCTIONS

- Do not cut warped or wet lumber.
- Hold the saw firmly with both hands and keep your body in a balanced position to resist the forces if kickback should occur.



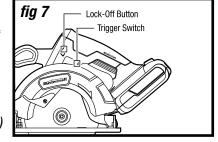
WARNING!

To avoid kickback, release the trigger switch immediately if the blade binds or the saw stalls. Kickback could cause you to lose control of the saw. Loss of control can lead to serious injury.

Lock-off button (fig 7)

The lock-off button reduces the possibility of accidental starting. The lock-off button is located on the handle above the trigger switch. The lock-off button must be depressed before you squeeze the trigger switch to start the saw.

NOTE: The lock-off button can be operated from either the left or right side.



Starting/stopping the saw (fig 7)

To start the saw:

- 1. Depress the lock-off button.
- Depress the trigger switch. Always allow the blade to reach full speed, and then guide the saw into the workpiece.

To stop the saw:

- 1. Release the trigger switch.
- After you release the trigger switch, allow the blade to come to a complete stop. Do not remove the saw from the workpiece while the blade is moving.

Electric brake

The saw has an electric brake to quickly stop the blade rotation. The electric brake engages when the trigger switch is released. When the brake is functioning properly, sparks may be visible through the vent slots in the motor housing. This is normal and is the action of the brake.



WARNING!

If the electric brake repeatedly fails to quickly stop the blade rotation, the saw should be repaired by a qualified technician.



DERATING INSTRUCTIONS



WARNING!

Always remove the battery pack from the tool when assembling parts, changing the blade and making adjustments. Failure to obey this warning could cause serious personal injury.

Depth-of-cut adjustments (fig 8)

Always use the correct blade-depth setting. The correct blade-depth setting for all cuts should not be more than 1/4 inch below the material being cut. Greater blade depth will increase the chance of kickback and cause the cut to be rough. Your saw is equipped with a depth scale that enables you to accurately set the depth-of-cut.

TO ADJUST DEPTH OF CUT



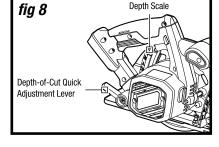
WARNING!

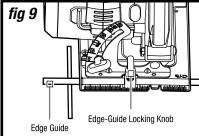
Always remove the battery pack from the saw when assembling parts, changing blades and making adjustments. Failure to obey this warning could cause serious personal injury.

- 1. Remove the battery pack from the saw.
- 2. Loosen the depth-of-cut quick adjustment lever.
- 3. Hold the base flat against the workpiece and raise or lower the saw until the indicator aligns with the desired depth on the scale.
- 4. Securely tighten the depth-of-cut quick

Using a guide (sold separately) (fig 9)







To order an edge guide (#54-8332-ED), call Customer Service 1-800-689-9928.

Always use a guide when making long or wide rip cuts with your saw. You can use either a straight edge or an edge guide (sold separately).

OPERATING INSTRUCTIONS

Using a straight edge:

- 1. Secure the workpiece.
- 2. Clamp a straight edge to the workpiece using C-clamps (not included).

NOTE: Position the C-clamps so that they will not interfere with the saw housing during the cut.

- 3. Press the lock-off button and depress the trigger switch to start the saw.
- 4. Allow the blade to reach full speed, then quide the saw into the workpiece and make the cut.
- 5. Saw along the straight edge to achieve a straight rip cut.
- 6. Release the trigger switch and allow the blade to come to a complete stop.
- 7. Lift the saw from the workpiece.

Always use a guide when making long or wide rip cuts with your saw. You can use either a straight edge or an edge guide (sold separately).

NOTE: The edge guide can be used on the left or right side of the blade (fig 9).



WARNING!

Always remove the battery pack from the saw when assembling parts, changing blades and making adjustments. Failure to obey this warning could cause serious personal injury.

- 1. Remove the battery pack from the saw.
- Position the edge guide (sold separately) so that the arm with the ruler side is facing up. Slide the arm of the edge guide through the mounting slots at the front of the saw base.
- Adjust the edge guide to the desired width of cut.
- 4. Tighten the edge-guide locking knob.
- 5. When using an edge guide, position the face of the edge guide firmly against the edge of the workpiece. This will help make a true cut without binding the blade. The edge of the workpiece must be straight for the cut to be straight. Use caution to prevent the blade from binding in the cut.

Operating the saw

It is important to understand the correct method for operating the saw. Refer to the instructions in this section to learn the correct and incorrect ways of handling the saw.



WARNING!

To make sawing easier and safer, always maintain proper control of the saw. Loss of control could cause an accident resulting in serious injury.



DERATING INSTRUCTIONS



WARNING!

Always securely clamp and support the workpiece. Always maintain proper control of the saw. Failure to clamp and support the workpiece and loss of control of the saw could result in serious injury.



WARNING!

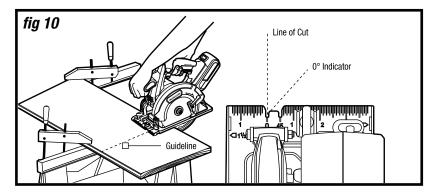
Do not bind the blade in the cut. It could cause the saw to "kickback" towards you, which could result in serious injury.

Integrated crosscut rulers

Marked along the base across the front of the saw is a ruler for measuring repetitive cuts. It is marked 1-1/2 inches to the left of 0° and 4 inches to the right of 0° in 1/16-inch increments.

NOTE: The distance from the line of cut to the guideline is the amount you should offset the guide.

Cross cutting (fig 10)



Maintain proper control of the saw. Loss of control could cause an accident resulting in serious injury.



DANGER!

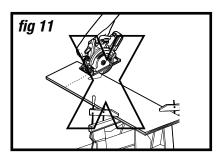
When lifting the saw from the workpiece, the blade is exposed on the underside of the saw until the lower blade guard closes. Make sure that the lower blade guard is closed before setting the saw down.

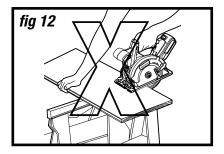


OPERATING INSTRUCTIONS

To make the safest and best possible cut, follow these helpful hints:

- Draw a guideline along the desired cutting line before beginning the cut.
- Support the workpiece so that the cut is always on the operator's side and not directly in line with the operator's body.
- 3. Support the workpiece near the cut.
- 4. Clamp the workpiece securely so that the workpiece will not move during the cut (fig 10).
- Hold the saw firmly with both hands. Avoid placing your hand on the workpiece while making a cut (fig 12).
- Always place the weight of the saw on the portion of the workpiece that is supported, as shown in (fig 10), and not on the "cut-off" piece, as shown in (fig 11).
- 7. Place the workpiece with the "good" side down.
- 8. Align the cutting line with the blade-guide notch on the base (fig 10).





NOTE: The saw blade aligns with the middle of the blade guide notch. Make a trial cut in scrap material along a guideline to determine how much to offset the cutting guideline on the cutting material.

- 9. Rest the front edge of the base on the workpiece without touching the blade to the workpiece.
- 10. Start the saw and allow the blade to reach full speed.
- 11. Guide the saw into the workpiece, and make the cut.
- 12. Release the trigger switch and allow the blade to come to a complete stop.



WARNING!

If the blade comes in contact with the workpiece before it reaches full speed, it could cause the saw to "kickback" towards you, which could result in serious injury.



WARNING!

Do not bind the blade in the cut. It could cause the saw to "kickback" towards you, which could result in serious injury.





WARNING!

If the blade comes in contact with the workpiece before it reaches full speed, it could cause the saw to "kickback" towards you, which could result in serious injury.

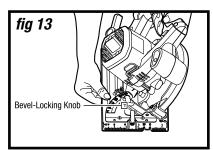
To adjust the bevel angle (fig 13)

1. Remove the battery pack from the saw.



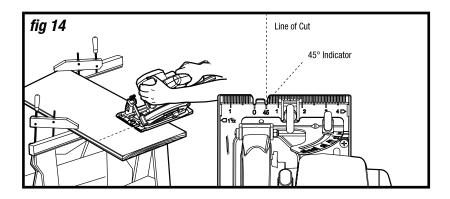
WARNING!

Do not bind the blade in the cut. It could cause the saw to "kickback" towards you, which could result in serious injury.



- 2. Loosen the bevel-adjustment knob, located on the 0-50° bevel scale on the base plate.
- 3. Tilt the body of the saw until the required angle is reached (refer to the bevel scale).
- 4. Tighten the bevel-adjustment knob to secure the saw and bevel angle.

Making a bevel cut (fig 14)







WARNING!

Always securely clamp and support the workpiece. Always maintain proper control of the saw. Failure to clamp and support the workpiece and loss of control of the saw could result in serious injury.

- 1. Remove the battery pack.
- 2. Adjust the angle of cut to any desired setting between 0° and 50°.
- 3. Attach the battery pack.
- 4. Align the cutting line with the 45° blade guide notch on the base when making 45° bevel cuts.

NOTE: The saw blade aligns with the middle of the guide notch. Make a trial cut in a scrap material along a guideline to determine how much to offset the cutting guideline on the cutting material.



WARNING!

Attempting a bevel cut without having the bevel-adjustment knob securely locked in place can result in serious injury.

- 5. Hold the saw firmly with both hands, as shown.
- 6. Rest the front edge of the base on the workpiece without touching the blade to the workpiece.
- 7. Start the saw and allow the blade to reach full speed.
- 8. Guide the saw into the workpiece and make the cut.
- 9. Release the trigger switch and allow the blade to come to a complete stop.
- 10. Lift the saw from the workpiece.



WARNING!

If the blade comes in contact with the workpiece before it reaches full speed, it could cause the saw to kick back towards you, possibly resulting in serious injury.

0° Bevel stop

The saw has a 0° bevel stop that has been adjusted before shipment to assure that the blade is vertical to the base at 0° bevel cutting.



PERATING INSTRUCTIONS

To check the 0° bevel stop (fig 15)

1. Remove the battery pack from the saw.



WARNING!

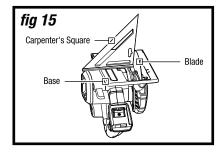
Always remove the battery pack from the saw when assembling parts, changing blades or making adjustments. Failure to obey this warning could cause serious personal iniury.

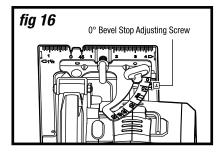
2. Using a carpenter's square, check that the saw blade is square (at a 90° angle) to the base of the saw.

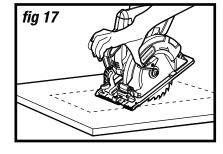
To adjust the 0° bevel stop (fig 16)

- 1. Remove the battery pack from the saw.
- 2. Loosen the bevel-adjustment knob.
- 3. Place the saw in an upside down position on a workbench.
- 4. Using a Phillips screwdriver (available separately), turn the 0° bevel-stop adjusting screw until the base is square with the saw blade.

Making a pocket cut (fig 17)









WARNING!

Always adjust the bevel setting to zero before making a pocket cut. Attempting a pocket cut at any other setting can result in a loss of control of the saw, which can result in serious injury.

- 1. Remove the battery pack.
- 2. Adjust the bevel setting to 0° and tighten the bevel-adjustment knob.



DERATING INSTRUCTIONS

- 3. Set the blade to the correct blade depth setting and tighten the depth-of-cut-quick adjustment lever.
- 4. Attach the battery pack.
- 5. Rest the front of the base flat against the workpiece, with the rear of the handle raised, so that the blade does not touch the workpiece.
- 6. Raise the lower blade guard and hold it in place with the lower blade-guard lever.
- 7. Press the lock-off button and depress the trigger switch to start the saw.
- 8. Allow the blade to reach full speed, then pivot the saw on the front of the base to cut into the workpiece.
- As the blade starts cutting the material, release the lower blade-guard lever.
- 10. When the foot of the lower blade guard rests flat on the surface being cut, proceed cutting in a forward direction to the end of the cut.
- 11. Release the trigger switch and allow the blade to come to a complete stop.
- 12. Lift the saw from the workpiece.



WARNING!

Always cut in a forward direction when making a pocket cut. Cutting in the reverse direction could cause the saw to climb up on the workpiece and kick back toward you, possibly causing serious injury.



WARNING!

As the blade starts cutting the material, release the lower blade-guard lever immediately. When the foot of the lower blade guard rests flat on the surface being cut, proceed cutting in a forward direction to the end of the cut.



WARNING!

Never tie the lower blade guard in the raised position. Leaving the blade exposed could result in serious injury.

General maintenance



WARNING!

To avoid personal injury, always remove the battery pack from the tool when cleaning or performing any maintenance.



WARNING!

Do not let brake fluids, gasoline, petroleum-based products, penetrating oil, etc. come into contact with plastic parts. These substances contain chemicals that can damage, weaken, or destroy plastic.

The tool may be cleaned most effectively with compressed dry air. Always wear safety goggles when cleaning tools with compressed air. Before each use:

- Inspect the cordless circular saw, the trigger switch, and the cord for damage.
- Check for damaged, missing, or worn parts.
- Check for loose screws, misalignment or binding of moving parts, or any other condition that may affect the operation.
- If abnormal vibration or noise occurs, turn the cordless circular saw off immediately, and have the problem corrected before further use.



WARNING!

When servicing, use only identical replacement parts. The use of any other parts may create a hazard or cause damage to the product.



WARNING!

Use only accessories that are recommended for this tool by the manufacturer. Accessories that may be suitable for one tool may become hazardous when used with another tool.



WARNING!

To ensure safety and reliability, all repairs should be performed by a qualified service technician.

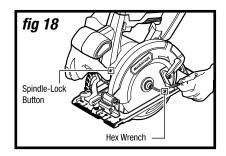


Changing the blade (fig 18–20)



WARNING!

Always remove the battery pack from the saw when assembling parts, changing blades or making adjustments. Failure to obey this warning could cause serious personal injury.





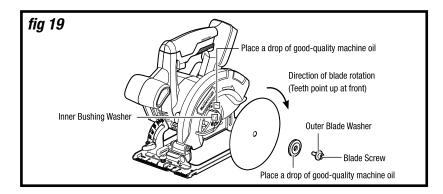
WARNING!

A 5 1/2" blade is the maximum blade capacity of the saw. Use only a 5 1/2" blade when replacing a worn or damaged blade. Never use a blade that is too thick to allow the outer blade washer to engage with the flats on the spindle. Thicker blades will prevent the blade screw from securing the blade on the spindle, resulting in serious personal injury.



WARNING!

Be sure to wear protective work gloves while handling a saw blade. The blade can injure unprotected hands.



- 1. Remove the battery pack from the saw.
- Loosen the depth-of-cut quick adjustment lever. Raise the saw to the maximum height and tighten the depth-of-cut quick adjustment lever. This practice allows easier access to the blade mounting.



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- 3. Depress the spindle-lock button, place the hex wrench in the blade screw and move it back and forth until you feel the spindle-lock button depress further. This action locks the blade in position so that the blade screw can be removed (fig 18).
- 4. With the spindle-lock button firmly depressed, turn the blade screw clockwise to remove it.
- 5. Raise the lower blade guard with the lower blade-guard lever and hold it in the raised position.
- 6. Remove the blade screw, the outer blade washer and the blade (fig 19).
- 7. The remaining washer is the inner bushing washer that fits around the spindle shaft and does not need to be removed.
- 8. Put a drop of good-guality machine oil onto the inner bushing washer and the outer blade washer where they will contact the blade.
- 9. Place a new saw blade inside the lower blade quard, onto the spindle shaft and against the inner bushing washer.

NOTE: The teeth of the blade should point upward at the front of the saw.

- 10. Replace the outer blade washer.
- 11. Depress and hold the spindle-lock button as you replace the blade screw and hand tighten the screw in a counter-clockwise direction. Use the hex wrench to tighten the blade screw securely.

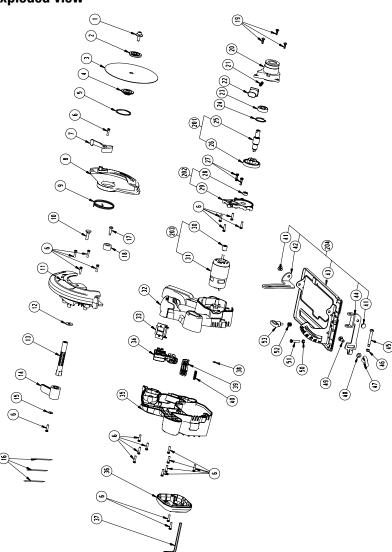
NOTE: Never use a blade that is too thick to allow the outer blade washer to engage with the flat side of the spindle.



PROBLEM	POSSIBLE CAUSES	SOLUTIONS	
The circular saw does	The battery is depleted.	Charge the battery.	
not work.	The battery pack is not installed.	Install a charged battery pack.	
The blade does not follow a straight line.	The teeth are dull. This is caused by hitting a hard object such as a nail, dulling teeth on one side. The blade tends to cut to the side with the sharpest teeth.	Replace the blade.	
	The edge guide or straight edge is not being used.	Use an edge guide or straight edge.	
	The blade is dull.	Replace the blade.	
The blade binds or smokes from friction.	The blade is on backwards.	Install the blade correctly.	
	The blade is bent.	Replace the blade.	
	The workpiece is not properly supported.	Clamp the workpiece correctly and tightly.	
	The incorrect blade is being used.	Use the correct blade.	

If the problem remains unsolved after performing the checks described above, call the toll-free helpline at 1-800-689-9928.

Exploded view



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PARTS LIST

01 3550688000 Flange Bolt 30 3550927000 Pinion 02 3520218000 Outer Flange 31 2730193000 DC Motor 03 3810403000 Blade 32 3321419000 Left Handle Assembly 04 3520316000 Inner Flange 33 3402627000 Contact Receptacle Assembly 05 5660135000 Circlips For Shaft 34 4870429000 Trigger Switch 06 5610103000 Tapping Screw 35 3321418000 Right Handle Assembly 07 3125500000 Lever 36 3321428000 Rear Cover Assembly 08 3126519000 Lower Guard 37 5680028000 Hexagon Wrench 09 3660255000 Spring 38 5690018000 O Ring 10 5640155000 Bott 39 3125511000 Lock Off Trigger 11 3126517000 Guard 40 366028000 Stop Spring 12 5650053000 Washer 204 282295	No.	Part No.	Description	No.	Part No.	Description
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	28	5700163000	Oil Impreg Bearing			
203 2822713000 Motor Gear Assembly	29	3421280000	Gear Case Cover			
	203	2822713000	Motor Gear Assembly			



This Mastercraft product is guaranteed three (3) years from the date of original retail purchase against defects in materials and workmanship, except for the following components:

- a) Component A: Batteries, chargers and carrying case, which are guaranteed for a period of 2 years from the date of original retail purchase against defects in workmanship and materials;
- b) Component B: Accessories, which are guaranteed for a period of 1-year from the date of original retail purchase against defects in workmanship and materials.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating there to.

These warranties are subject to the following conditions and limitations:

- a) a bill of sale verifying the purchase and purchase date must be provided:
- b) this warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes:
- c) this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product which are expected to become inoperative or unusable after a reasonable period of use:
- d) this warranty will not apply to routine maintenance and consumable items such as, but not limited to, fuel, lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments:
- e) this warranty will not apply where damage is caused by repairs made or attempted by others (i.e. persons not authorized by the manufacturer);
- f) this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing):
- q) this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h) this warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners; and



i) this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

Additional Limitations

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

Notice to Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from. disclaim or exclude any statutory warranties set forth in any applicable provincial or federal legislation. Imported by Mastercraft Canada Toronto, Canada M4S 2B8

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