RYOBI POWER EQUIPMENT

WARRANTY

Subject to the warranty conditions below, this RYOBI tool (hereinafter called “the Product”), is warranted by Ryobi (herein called “the Company”) to be free from defects in material or workmanship for a period of 12 months from the date of original purchase covering both parts and labour. Under the terms of this warranty, the repair or replacement of any part shall be the opinion of the Company or its authorised agent. Should service become necessary during the warranty period, the owner should contact the authorised Ryobi retailer from whom the product was purchased, or the nearest Company branch office. In order to obtain warranty service, the owner must include the Sales Docket and Warranty Certificate to confirm date of purchase. This Product is sold by the dealer or agent as principal and the dealer has no authority from the Company to give any additional warranty or guarantee on the Company’s behalf except as herein contained or herein referred to.

Warranty Conditions

This warranty only applies provided that the Product has been used in accordance with the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such warranty does not cover consumable components, damage, malfunction or failure resulting from misuse, neglect, abuse, or used for a purpose for which it was not designed, or is not suited and no repairs, alterations or modifications have been attempted by other than an Authorised Service Agent. This guarantee will not apply if the tool is damaged by accident or if repairs arise from normal wear and tear.

Accessories such as bits,blades, sanding discs, cutting lines, etc., are excluded from this guarantee. Normal consumable parts, such as carbon brushes, bearings, chucks, cord assembly’s, spark plugs, recoil pulleys and bump head assembly’s are specifically excluded from this guarantee.

The Company accepts no additional liability pursuant to this warranty for the costs of traveling or transportation of the Product or parts to and from the sevice dealer or agent - which costs are not included in the warranty.

Nothing herein shall have the effect of excluding, restricting or modifying any conditions, warranty, right or liability imposed, to the extent only that such exclusion, restriction or modification would render any term herein void.

RYOBI®

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THIS WARRANTY FORM
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.

For your record and to assist in establishing date of purchase (necessary for in-warranty service), please keep your purchase docket and this form, completed with the following particulars.

PURCHASED FROM:.....

ADDRESS OF DEALER:.....

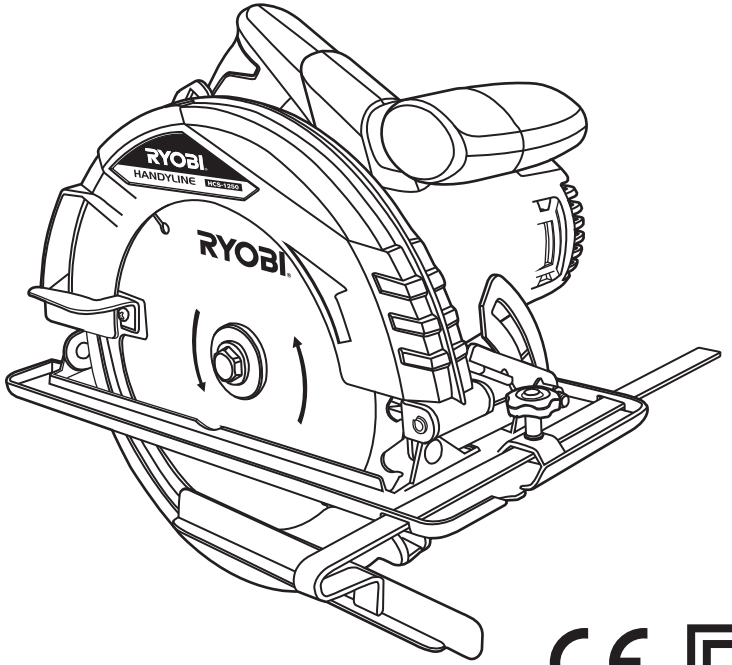
DATE:..... MODEL NO..... SERIAL NO.....

Present this form with your Purchase Docket when Warranty Service is required.

RYOBI®

HCS-1250

OWNER'S OPERATING MANUAL



RYOBI®

OWNER'S OPERATING MANUAL

1250W CIRCULAR SAW

MODEL HCS-1250

SPECIFICATIONS

Voltage	230V~50Hz
Power input	1250 Watt
No load speed	5,000 min^{-1}
Dia of saw blade	185 mm
Max. Sawing Depth at 90°	65 mm
Max. Sawing Depth at 45°	44 mm
Nett weight	3.8 kg

THANK YOU FOR BUYING A RYOBI CIRCULAR SAW

Your new circular saw has been engineered and manufactured to Ryobi's high standard of dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble free performance. If you use your circular saw properly and only for what it is intended, you will enjoy years of safe, reliable service.

CAUTION: Carefully read through this entire owner's manual, paying close attention to the general safety rules and rules for safe operation, before using.

KEEP THIS MANUAL FOR FUTURE REFERENCE

RELEVANT SAFETY CERTIFICATE

DOUBLE INSULATED

DOUBLE INSULATION
Double insulation is a concept in safety in electric power tools, which eliminates the need for earth grounding. Whenever there is electric current in the tool there are two complete sets of insulation to protect the user. All exposed metal parts are isolated from the internal metal motor components with protecting insulation.

WARNING:
The double insulated system is intended to protect the user from shock resulting from a break in the tool's internal wiring. Observe all normal safety precautions related to avoiding electrical shock.

IMPORTANT: Servicing of a tool with double insulation requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For service we suggest you return the tool to your nearest Ryobi Authorised Service Centre for repair. When servicing, use only identical Ryobi replacement parts.

CE

WARNING: This machine is manufactured in accordance with the relevant safety requirements. To assure safety and reliability, all repairs should be performed by an Authorised Service Centre or other Qualified Service Organisations

GENERAL SAFETY RULES

The purpose of safety rules is to attract your attention to possible dangers. The safety symbols and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention measures.

SAFETY ALERT SYMBOL. Indicates caution or warning. May be used in conjunction with other symbols or pictures.

Failure to obey a safety warning can result in serious injury to yourself or to others. Always follow the safety precautions to reduce the fisk of fire, electric shock and personal injury.

Do not attempt to operate this tool until you have read thoroughly and completely understood the safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save this Owners Operating Manual and review it frequently for continual safe operation and for instructing others who may use this tool.

The operation of any tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eye glasses or standard safety glasses with side shields.

Due to continued product refinement policy, product features and specifications can and will change without notice. Check current features and specifications with your retailer.

RULES FOR SAFE OPERATION

WORK AREA

1. **KEEP WORK AREA CLEAN AND WELL LIT.** Cluttered, dark work areas and benches invite accidents and injury.
2. **AVOID DANGEROUS WORK ENVIRONMENTS.** Do not use power tools in damp or wet locations or expose power tools to rain. Do not use power tools in the presence of flammable liquids or gases as normal sparking of the motor could ignite fumes.
3. **KEEP CHILDREN, BYSTANDERS AND PETS AWAY.** Bystanders and children should wear safety glasses and be kept a safe distance from the work area. Do not let others make contact with the tool or extension cord. Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. **CHECK THE POWER SOURCE VOLTAGE.** Before connecting a tool to a power source (power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.
2. **POWER TOOL PLUGS MUST MATCH THE OUTLET.** Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
3. **GUARD AGAINST ELECTRICAL SHOCK.** Prevent body contact with grounded surfaces and objects such as water pipes, radiators, cookers and refrigerator enclosures.
4. **DO NOT ABUSE THE CORD.** Never carry the tool by its cord or yank it to disconnect it from the socket. Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. Disconnect the tool from the power supply immediately if the supply cable is damaged or cut.
5. **EXTENSION CORD.** When an extension cord is used make sure:
   - That the pins on the plug of the extension cord are the same in number, size and shape as those of the plug on the unit.
   - That the extension cord is properly wired and in good electrical condition.
   - That the wire size is large enough for the AC ampere rating of the unit.
   - Ensure that the male and female plug connection is elevated and out of the way of any water contact.
6. **OUTDOOR USE EXTENSION CORDS.** When the tool is used outdoors, use only extension cords intended for use outdoor and so marked.
7. **DO NOT EXPOSE POWER TOOLS TO RAIN OR WET CONDITIONS.** Water entering a power tool will increase the risk of electric shock.

PERSONAL SAFETY

1. **USE SAFETY EQUIPMENT.** Always wear eye and hearing protection. Safety equipment such as safety glasses, a dust mask, non-skid safety shoes, hard hat, safety gloves or earmuffs, used for appropriate conditions will reduce personal injury. Everyday eyeglasses have impact resistant lenses only, they are not safety glasses. A face or dust mask is also required if dust is going to be created.
2. **DRESS CORRECTLY.** Do not wear loose clothing or jewelry, they can be caught in moving parts. Rubber gloves and non-slip Footwear are recommended when working outdoors. If you have long hair, wear protective hair covering.
3. **STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate a tool when you are tired. Do not rush.
4. **DO NOT OPERATE THIS TOOL WHILE UNDER THE INFLUENCE OF DRUGS.** Alcohol or any medication.
5. **AVOID UNINTENTIONAL STARTING.** Always check that the switch is in the OFF position before plugging in the tool to the power supply. Do not carry a plugged in tool with your finger on the switch.
6. **DO NOT USE TOOL IF SWITCH DOES NOT TURN THE TOOL ON OR OFF.** Have defective switches replaced by an authorised service centre.
7. **TOOLS ARE NOT INTENDED FOR USE BY YOUNG OR INFIRM PERSONS WITHOUT SUPERVISION.** Young children should be supervised to ensure that they do not play with the tool.

RULES FOR SAFE OPERATION

8. **REMOVE ADJUSTING KEYS AND WRENCHES BEFORE TURNING THE POWER TOOL ON.** A wrench or a key left attached to a rotating part of the power tool may result in serious personal injury.
9. **DO NOT OVERREACH.** Keep proper footing and balance at all times. Do not use tool on a ladder or unstable support. Secure tools when working at elevated levels.
10. **CONNECT DUST EXTRACTION EQUIPMENT.** 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.
11. **DO NOT ALLOW PERSONS UNFAMILIAR WITH THE POWER TOOL OR THESE INSTRUCTIONS OPERATE THE POWER TOOL.** Power tools are dangerous in the hands of untrained users.

POWERTOOL USE AND CARE

1. **KNOW YOUR POWER TOOL.** Read this Operating Manual carefully learn its applications and limitations as well as the specific potential hazards related to this tool.
2. **DO NOT FORCE THE TOOL.** The tool will do the job better and safer working at the rate for which it was designed.
3. **USE THE CORRECT TOOL FOR THE JOB.** Do not force small tools or attachments to do the job of a heavier duty tool. Never use a tool for a purpose for which it was not intended.
4. **THE TOOL MUST BE USED FOR ITS PRESCRIBED PURPOSE.** Any use other than those mentioned in this manual will be considered a case of misuse.The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.
5. **SECURE YOUR WORK.** Use clamps or a vice to hold your work. It is safer than using your hands and it frees both hands to operate the tool.
6. **DISCONNECT IDLE TOOLS.** Switch off the power and disconnect the plug from the power supply before servicing, when changing accessories and when the tool is not in use.
7. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged have them repaired by an authorised service facility. Inspect extension cords periodically and replace them if damaged. Keep tool handles dry, clean and free from oil and grease. Never use brake fluids, petrol, petroleum based products, or any strong solvents to clean your tools.
8. **CHECK DAMAGED PARTS.** Before using a tool, check that there are no damaged parts. If a part is damaged, carefully determine if it will operate properly and perform its intended function. Check for misalignment of moving parts, binding of moving parts, breakage of parts, proper mounting and any other conditions that may affect the operation of the tool. A part that is damaged should be properly repaired or replaced by an authorised service centre, unless otherwise indicated in this Operating Manual. Defective switches must be replaced by an authorised service centre. Do not use a tool if the switch does not turn the tool on and off correctly.
9. **DISCONNECT THE PLUG FROM THE POWER SUPPLY BEFORE MAKING ANY ADJUSTMENTS,** changing accessories, or storing the power tool. Such preventative safety measures reduce the risk of starting the power tool accidentally.
10. **USE ONLY APPROVED PARTS.** When servicing, use only identical replacement parts. Use an authorised service centre to fit replacement parts.
11. **DO NOT MAKE ANY CHANGES TO THE TOOL.** The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.
12. **STORE TOOLS SAFELY.** When not in use, tools should be stored in a dry, high and locked-up place, out of reach of children.

WARNING: This electric tool is manufactured in accordance with the relevant safety requirements. To assure safety and reliability, all repairs should be performed by an Authorised Service Centre or other Qualified Service Organisation.

SPECIFIC SAFETY RULES FOR CIRCULAR SAW

1.  **DANGER**: **Keep hands away from cutting area and blade. Keep your second hand on auxiliary handle or motor housing.** If both hands are holding the saw, they can not be cut by the blade. **Keep your body positioned to either side of the saw blade, but not in line with the saw blade.** Kickback could cause the saw to jump backwards. (See Kickback.) **Do not reach underneath the work.** The guard can not protect you from the blade below the work.
2. **Check lower guard for proper closing before each use. Do not operate 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. With the power to the saw disconnected, 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.
3. **Check the operation and condition 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 buildup of debris.
4. **Lower guard should be retracted manually only for special cuts such as "Pocket Cuts" and "Compound Cuts." Raise lower guard by Retracting Handle. As soon as blade enters the material, lower guard must be released.** For all other sawing, the lower guard should operate automatically.
5. **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.
6. **NEVER hold piece being cut in your hands or across your leg.** It is important to support the work properly to minimize body exposure, blade binding, or loss of control Use vises, clamps, or other appropriate supports to securely hold the workpiece.
7. **When ripping always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance for blade binding.
8. **Always use blades with correct size and shape (diamond vs. round) arbor holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
9. **Never use damaged or incorrect blade washers or bolts.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.
10. **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 tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:
    - **Maintain a firm grip on the saw and position your body and arm in a way that allows you to resist kickback forces.** Kickback forces can be controlled by the operator, if proper precautions are taken.
    - **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.
    - **When restarting a saw in the workpiece, center the saw blade in the kerf and check that 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.

SPECIFIC SAFETY RULES FOR CIRCULAR SAW

- **Support large panels to minimize 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.
- **Do not use dull or damaged blade.** 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 cut.** If blade adjustment shifts while cutting, it will cause binding and kickback.
- **Use extra caution when making a "Pocket Cut" into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.

11. Always wear ANSI-approved safety impact eye goggles and heavy work gloves when using the Circular Saw. Using personal safety devices reduce the risk for injury.

12. Always connect the Line Cord to a Ground protected electrical outlet.

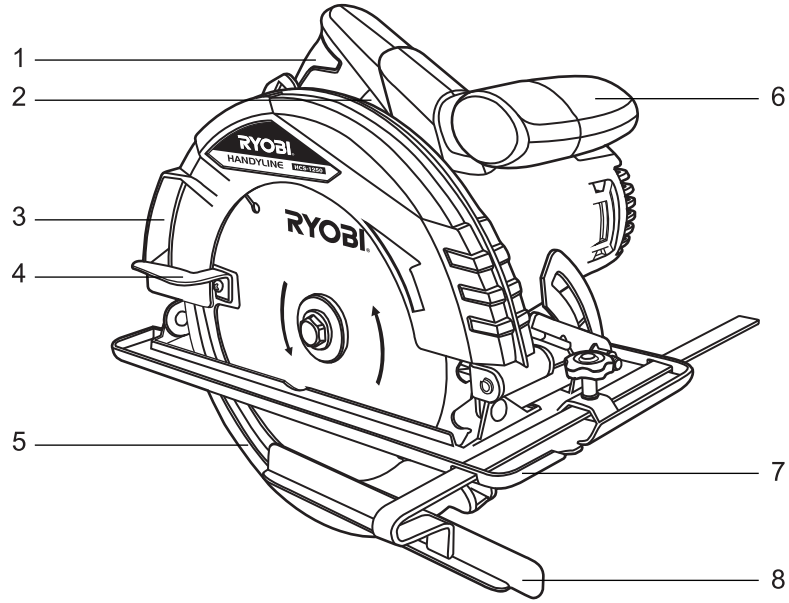
WARNING: People with pacemakers should consult their physician(s) before using this product. Electromagnetic fields in close proximity to a heart pacemaker could cause interference to or failure of the pacemaker. In addition, people with pacemakers should adhere to the following:

- Avoid operating power tools alone.
- Don't use a power tool with the power switch locked on.
- Be certain that the tool is properly grounded. A ground fault interrupt (GFCI) system is also a good precaution. This inexpensive device is a good safety measure because it prevents a sustained electrical shock.
- Properly maintain and inspect all tools before use to avoid electrical shock.

WARNING:

Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool or product. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

DESCRIPTION



1. Rear handle
2. Switch trigger
3. Dust tube
4. Lower guard lever
5. Lower guard
6. Front handle
7. Base plate
8. Guide fence

OPERATION

Installing a Saw Blade (Fig. 1)

1. Use only a 185mm Saw Blade. The saw blade speed rating must be at least 5000 rpm. Refer to the following table for saw blade applications and types.

APPLICATION	BLADE DESCRIPTION	NO. OF TEETH	TYPE OF CUT
Fine Trim Molding	Precision Trim Carbide	60 ~100	Very smooth, splinter free
Trim, Framing, Pressure Treated Decking	Combination, multi-purpose	24 ~60	Smooth, fast cut
Aluminum	Non-ferrous metal cutting	60 ~ 80	.....

2. Unplug the Circular Saw from the electrical outlet.
3. Raise the Lower Guard as far as possible.
4. Hold the Lower Guard up and press the Spindle Lock Button with one hand Rotate the Saw Blade until the Spindle Lock catches and the blade stops.
5. Using the supplied Saw Blade Hex Key in the other hand, loosen (anti-clock) the Hex Screw. Remove the Saw Blade, Hex Screw, Outer Flange, then the Saw Blade.
6. Clean out Blade Cover of any debris.
7. Place the new Saw Blade over the Spindle hole. The Saw Blade teeth at the bottom of the saw blade should be pointing toward the back of the Circular Saw.
8. Place the Outer Flange over the Spindle hole, then insert the Hex Screw.
9. Press the Spindle Lock Button with one hand, and tighten the Hex Screw (clockwise) using the Hex Key with the other hand.

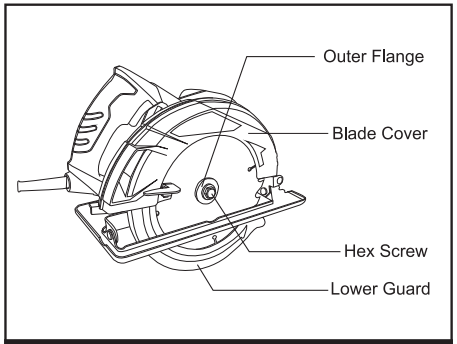


Fig. 1

Adjusting the Saw Prior to Cutting

CAUTION: Always make sure the Power Cord is unplugged from its electrical outlet prior to making any adjustments to the tool.

1. To adjust the bevel cutting angle between 0 and 45 degrees, loosen Angle Adjust Wing Nut and move the Base Plate to the desired angle according to the Bevel Scale. Tighten wing nut. (Fig. 2)

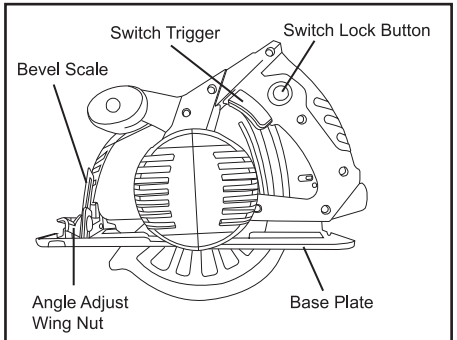


Fig. 2

OPERATION

2. To adjust the depth of the cut, lift Depth Lever and move base plate down (or up) while observing the amount of saw blade exposed under base plate. Push down on the Depth Lever to lock in new depth setting. (Fig. 3)

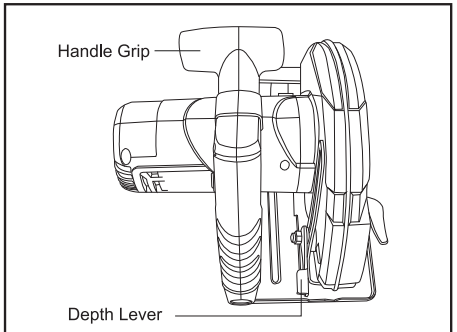


Fig. 3

Prepare Material Before Cutting (Fig. 4)

1. Support large panels to minimize risk of blade pinching and saw kickback.
2. Use the supplied Guide Fence when ripping material by sliding it into the base plate, and tightening screw.
3. Securely clamp material to be cut to work bench.
4. Be cautious that Circular Saw does not cut into supports or workbench.
5. Use the appropriate type of blade for the material you are cutting.

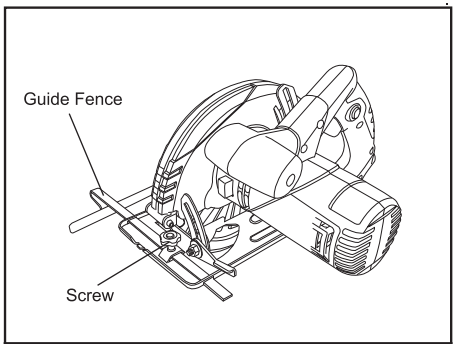


Fig. 4

General Cutting

CAUTION:
Verify that Saw Blade is securely tightened and both angle and height adjusting nuts and levers are tight. Read and understand all safety precautions listed on this instruction manual.

1. If a straight cut is desired, slide the guide fence into the side of the circular saw and tighten with screw, or clamp a straight edge to the material to guide the saw on a straight path. Refer to photo above. Place the saw base plate on the material to be cut. Align the front notch (right edge aligns with saw blade) on the cut line.
2. Hold the circularsaw by both handles Always keep hands and fingers away from the saw blade.
3. Push in and hold the switch lock button, then squeeze the switch trigger with the index finger. Do this before the saw blade touches the material.
4. With the saw at full speed, move the saw slowly forward to complete the cut.
5. When the cut is complete, release the switch trigger. Do not set the saw down unti the blade stops turning.

OPERATION

Pocket Cuts (Fig. 5)

1. Tilt the saw forward with the cutting guide notch of the base plate on the line drawn for the cut.
2. Raise the lower guard with the lower guard lever.
3. With the saw blade just above the material to be cut, start the saw and allow the saw blade to come to full speed.
4. Gradually lower the saw blade onto the stock using the front end of the base plate as a pivot point.
5. When the cutting begins, release the blade guard.
6. When the base plate is resting flat on the stock being cut, proceed cutting in a forward direction to the end of the cut.
7. When the cut is complete, release the switch trigger and wait for the saw blade to come to a stop before lifting the saw out of the cut.
8. If necessary, complete the cut from the opposite direction in the same manner described above.

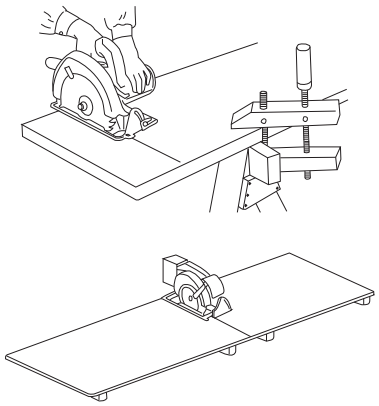


Fig. 5

CAUTION:

Never pull the saw backwards since the saw blade will climb out of the cut and kickback will occur.

MAINTENANCE

WARNING:

Make sure the Power Switch of the Circular Saw is in its “OFF” position, and that the tool is unplugged from its electrical outlet, before performing any inspection, maintenance, or cleaning procedures.

- **Before each use,** inspect the general condition of the circular saw. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use.
- Before remounting the saw blade, remove all sawdust that has accumulated around the safety guard.
- Regularly inspect and tighten all mounting screws and knobs.
- Keep saw blade clean and sharp. Sharp blades minimize stalling and kickback.
- Keep guards in good working order.
- Keep motor air vent clean of dust and debris. Vacuum periodically.
- If the tool is not operating normally, making unusual noises, or appears defective, stop using it immediately and get it repaired.
- Clean tool with a damp cloth and light detergent. Do not use solvents as they can damage and crack the plastic parts.

Replacing the Carbon Brushes

1. Unscrew the Carbon Brush Covers
2. Pull out the carbon brush from each side of the motor and examine them. If they are worn more than half way down, replace them. It could be that they are simply dirty They can be cleaned using an ink eraser
3. Replace the carbon brushes and covers.

MAINTENANCE

TROUBLESHOOTING

Symptom	Possible Cause	Remedy
Saw does not start when trigger is pulled.	1. No power to line cord.	1. Check electrical outlet for power.
	2. Switch Lock Button not pushed in while pulling trigger.	2. Press in button while pulling trigger.
	3. Defective switch.	3. Replace switch.
	4. Carbon brushes dirty or worn down.	4. Clean or replace carbon brushes.
While cutting, saw slows down.	Carbon brushes dirty or worn down.	Clean or replace carbon brushes.
Saw blade slips while cutting.	Hex Screw loose.	Securely tighten Hex Screw.
Blade Guard sticks or does not open easily.	Debris buildup in the Blade Cover.	Remove Saw Blade and clean out Blade Cover.
Wood burns or smokes while being out.	Saw Blade dull.	Sharpen or replace Saw Blade.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

— NOTE —