



OPERATOR'S MANUAL

MANUEL D'UTILISATION
MANUAL DEL OPERADOR

5-1/2 in. ONE+ 18V CIRCULAR SAW

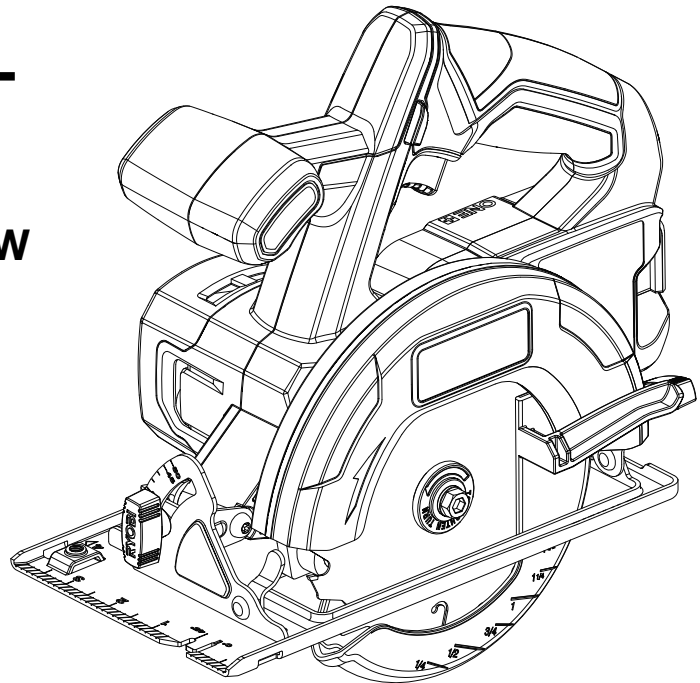
SCIE CIRCULAIRE DE 140 mm

(5-1/2 po) DE 18 V DE ONE+

SIERRA CIRCULAR DE 140 mm

(5-1/2 pulg.) DE ONE+ 18 V

PCL500



EN MEXICO:
PARA MÁS INFORMACIÓN
WWW.RYOBITOOLS.MX
CENTROS DE SERVICIO
800-843-1111

INCLUDES: Circular Saw, 5-1/2 in. Blade,
Blade Wrench, Operator's Manual

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⚠ WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

**SAVE THIS MANUAL FOR
FUTURE REFERENCE**

INCLUT : Scie circulaire, lame de 140 mm
(5-1/2 po), clé de lame, manuel d'utilisation

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⚠ AVERTISSEMENT : Pour réduire les risques de blessures, l'utilisateur doit lire et veiller à bien comprendre le manuel d'utilisation avant d'employer ce produit.

**CONSERVER CE MANUEL
POUR FUTURE RÉFÉRENCE**

INCLUYE: Sierra circular, hoja de 140 mm (5-1/2 pulg.), llave de la hoja, manual del operador

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⚠ ADVERTENCIA: Para reducir el riesgo de lesiones, el usuario debe leer y comprender el manual del operador antes de usar este producto.

**GUARDE ESTE MANUAL
PARA FUTURAS CONSULTAS**

GENERAL POWER TOOL SAFETY WARNINGS



WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below 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 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 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.
- **Use this product only with batteries and chargers listed in tool/appliance/battery pack/charger correlation supplement 987000-432.**

PERSONAL SAFETY

- **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.

- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **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 energizing 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 and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
- **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.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.
- **Do not wear loose clothing or jewelry.** Contain long hair. Loose clothes, jewelry, or long hair can be drawn into air vents.
- **Do not use on a ladder or unstable support.** Stable footing on a solid surface enables better control of the power tool in unexpected situations.

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 safer 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 remove the battery pack, if detachable, 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 and accessories. 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.

GENERAL POWER TOOL SAFETY WARNINGS

- **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 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.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

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.** Use of any other battery packs may create a risk of injury and fire.
- **When battery pack is not in use, keep it away from other metal objects, like 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 accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 265° F may cause explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

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.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

CIRCULAR SAW SAFETY WARNINGS

CUTTING PROCEDURES



DANGER:

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.

- **Do not reach underneath the workpiece.** The guard can not 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 teeth should be visible below the workpiece.
- **Never hold the workpiece in your hands or across your leg while cutting. 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 insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring.** Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- **When ripping, always use a rip fence.** This improves the accuracy of cut and reduces the chance of blade binding.

- **Always use blades with correct size and shape (diamond versus round) of arbor holes.** Blades that do not match the mounting hardware of the saw will run off-center, 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.

KICKBACK CAUSES AND RELATED WARNINGS

- Kickback is a sudden reaction to a pinched, jammed 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 jammed 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:

- **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position**

CIRCULAR SAW SAFETY WARNINGS

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 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 so that the saw teeth are not engaged into the material.** If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.
- **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 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 the cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.
- **Use extra caution when sawing into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.

LOWER GUARD FUNCTION

- **Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard 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 it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- **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.
- **The lower guard may be retracted manually only for special cuts such as “plunge cuts” and “compound cuts.” Raise the lower guard by the retracting handle and as soon as the blade enters the material, the lower guard must be released.** For all other sawing, the lower guard should operate automatically.

- **Always observe that the lower guard is covering the blade before placing the 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.

ADDITIONAL SAFETY WARNINGS

- **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- **Always wear eye protection with side shields marked to comply with ANSI Z87.1 when assembling parts, operating the tool, or performing maintenance.** Following this rule will reduce the risk of serious personal injury.
- **Protect your lungs. Wear a face or dust mask if the operation is dusty.** Following this rule will reduce the risk of serious personal injury.
- **Protect your hearing. Wear hearing protection during extended periods of operation.** Following this rule will reduce the risk of serious personal injury.
- **Battery tools do not have to be plugged into an electrical outlet; therefore, they are always in operating condition. Be aware of possible hazards when not using your battery tool or when changing accessories.** Following this rule will reduce the risk of electric shock, fire, or serious personal injury.
- **Do not place battery tools or their batteries near fire or heat.** This will reduce the risk of explosion and possibly injury.
- **Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow.** A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- **Batteries can explode in the presence of a source of ignition, such as a pilot light.** To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. An exploded battery can propel debris and chemicals. If exposed, flush with water immediately.
- **Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention.** Following this rule will reduce the risk of serious personal injury.
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.

SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER:	Indicates a hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING:	Indicates a hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION:	Indicates a hazardous situation, that, if not avoided, may result in minor or moderate injury.
	NOTICE:	(Without Safety Alert Symbol) Indicates information considered important, but not related to a potential injury (e.g. messages relating to property damage).

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
	Safety Alert	Indicates a potential personal injury hazard.
	Read Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear eye protection with side shields marked to comply with ANSI Z87.1.
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	Recycle Symbol	This product uses lithium-ion (Li-ion) batteries. Local, state or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.
	Direct Current	Type or a characteristic of current
n_0	No Load Speed	Rotational speed, at no load
.../min	Per Minute	Revolutions, strokes, surface speed, orbits etc., per minute
V	Volts	Voltage
min	Minutes	Time

FEATURES

PRODUCT SPECIFICATIONS

Motor	18 V DC	Cutting Depth at 0°	1-11/16 in.
Blade Diameter	5-1/2 in.	Cutting Depth at 45°	1-3/16 in.
Blade Arbor	3/8 in. (10 mm)	No Load Speed	4700/min (RPM)

ASSEMBLY

UNPACKING

This product requires assembly.

- Carefully remove the product and any accessories from the box. All items listed in the **Includes** section must be included at the time of purchase.

WARNING:

Items in this *Assembly* section are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

- Inspect the product carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
- If any parts are damaged or missing, please call 1-800-525-2579 for assistance.

WARNING:

If any parts are damaged or missing do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

WARNING:

Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

WARNING:

To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the product when assembling parts.

ATTACHING THE BLADE

See Figure 1, page 13.

WARNING:

A 5-1/2 in. blade is the maximum blade capacity of the saw. Never use a blade that is too thick to allow outer blade washer to engage with the flats on the spindle. Larger blades will come in contact with the blade guard, while thicker blades will prevent blade screw from securing blade on spindle. Either of these situations could result in a serious accident.

- Remove the battery pack from the saw.
- Remove the blade wrench (5 mm hex key) from the storage area.
- Depress the spindle lock button and remove the blade screw and outer blade washer.

NOTE: Turn the blade screw clockwise to remove.

NOTICE:

To prevent damage to the spindle or spindle lock, always allow motor to come to a complete stop before engaging spindle lock.

NOTE: Do not run the circular saw with spindle lock engaged.

- Wipe a drop of oil onto the inner blade washer and outer blade washer where they contact the blade.

WARNING:

If inner blade washer has been removed, replace it before placing blade on spindle. Failure to do so could cause an accident since blade will not tighten properly.

ASSEMBLY

- Fit the saw blade inside the lower blade guard and onto the spindle.

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

- Replace the outer blade washer.
- Depress the spindle lock button, then replace the blade screw. Tighten the blade screw securely by turning it counterclockwise.
- Return the blade wrench to the storage area.

NOTE: Never use a blade that is too thick to allow the outer blade washer to engage with the flats on the spindle.

REMOVING THE BLADE

See Figure 2, page 13.

- Remove the battery pack from the saw.
- Remove the blade wrench from the storage area.
- Position the saw as shown, depress the spindle lock button, and remove the blade screw by turning it clockwise.
- Remove the outer blade washer.
- Remove the blade.

OPERATION

WARNING:

Do not allow familiarity with products to make you careless. Remember that a careless fraction of a second is sufficient to inflict serious injury.

WARNING:

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.

WARNING:

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

WARNING:

Never use abrasive cut-off wheels of any kind with this saw. Use of non wood cutting blades can result in property damage or serious personal injury.

APPLICATIONS

You may use this product for the purposes listed below:

- Cutting all types of wood products (lumber, plywood, paneling, composition board, and hard wood)

INSTALLING/REMOVING BATTERY PACK

See Figure 3, page 13.

- Insert the battery pack into the product as shown.
- Make sure the latches on each side of the battery pack snap in place and that battery pack is secured in the product before beginning operation.
- Depress the latches to remove the battery pack.

For complete charging instructions, see the operator's manuals for your battery pack and charger.

WARNING:

Battery tools are always in operating condition. Therefore, switch should always be locked when not in use or carrying at your side.

KICKBACK

See Figures 4 - 7, pages 13 and 14.

Kickback occurs when the blade stalls rapidly and the saw is driven back towards you. Blade stalling is caused by any action which pinches the blade in the wood.

DANGER:

Release switch immediately if blade binds or saw stalls. Kickback could cause you to lose control of the saw. Loss of control can lead to serious injury.

OPERATION

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

- Setting blade depth incorrectly.
- Sawing into knots or nails in workpiece.
- Twisting the blade while making a cut.
- Making a cut with a dull, gummed up, or improperly set blade.
- Supporting the workpiece incorrectly.
- Forcing a cut.
- Cutting warped or wet lumber.
- Operating the tool incorrectly or misusing the tool.

To lessen the chance of kickback, follow these safety practices:

- Keep the blade at the correct depth setting. The depth setting should not exceed 1/4 in. below the material being cut.
- Inspect the workpiece for knots or nails before cutting. Never saw into a knot or nail.
- Make straight cuts. This helps prevent twisting the blade.
- Use clean, sharp, and properly set blades. Never make cuts with dull blades.
- Support the workpiece properly before beginning a cut.
- Use steady, even pressure when making a cut. Never force a cut.
- Do not cut warped or wet lumber.
- Hold the saw firmly with both hands and keep your body in a balanced position so as to resist the forces if kickback should occur.

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

The best of saw blades will not cut efficiently if they are not kept clean, sharp, and properly set. Using a dull blade will place a heavy load on the saw and increase the danger of kickback. Keep extra blades on hand, so that sharp blades are always available.

Gum and wood pitch hardened on blades will slow the saw down. Remove saw blade from the saw and use gum and pitch remover, hot water, or kerosene to remove these accumulations. **DO NOT USE GASOLINE.**

BLADE GUARD SYSTEM

See Figure 8, page 14.

The lower blade guard attached to the circular saw is there for your protection and safety. Do not alter it for any reason. If it becomes damaged, do not operate the saw until you have the guard repaired or replaced. Always leave guard in operating position when using the saw.

DANGER:

When sawing through work, lower blade guard does not cover blade on the underside of work. Since blade is exposed on underside of work, keep hands and fingers away from cutting area. Any part of your body coming in contact with moving blade will result in serious injury.

CAUTION:

Never use saw when guard is not operating correctly. Check the guard for correct operation before each use. The guard is operating correctly when it moves freely and readily returns to the closed position. If you drop the saw, check the lower blade guard and bumper for damage at all depth settings before reuse.

STARTING/STOPPING THE SAW

See Figure 9, page 14.

To start the saw:

- Depress the lock-off button.
- Depress the switch trigger.

Always let the blade reach full speed, then guide the saw into the workpiece.

WARNING:

The blade coming in contact with the workpiece before it reaches full speed could cause the saw to “kickback” towards you resulting in serious injury.

To stop the saw: release the switch trigger.

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

LOCK-OFF BUTTON

See Figure 9, page 14.

The lock-off button reduces the possibility of accidental starting. The lock-off button is located on the handle above the switch trigger. The lock-off button must be depressed before you pull the switch trigger. The lock resets each time the trigger is released.

NOTE: You can depress the lock-off button from either the left or right side.

OPERATION

INSTALLING THE VACUUM ADAPTOR (OPTIONAL)

See Figure 10, page 14.

The vacuum adaptor (not included) may be installed for easy dust removal and disposal. It fits vacuum hoses 1-1/4 in. and 1-7/8 in.

- Remove the battery pack.
- Unscrew and remove the depth lock knob. Remove the washer. Set both aside.
- Insert the vacuum adaptor into the dust port, aligning the ribs on the attachment with the grooves in the dust port of the saw.
- Reattach the washer and depth lock knob. Turn the knob clockwise to securely fasten the vacuum adaptor.
- Adjust the blade height to the correct blade depth setting.

ADJUSTING BLADE DEPTH

See Figure 11, page 14.

Always keep correct blade depth setting. Less than a full tooth of the blade teeth should be visible below the workpiece. More blade depth will increase the chance of kickback and cause the cut to be rough.

- Remove the battery pack.
- Loosen the depth lock knob.
- Determine the desired depth of cut.
- Lay saw on the work surface on the flat motor housing with blade side toward user and move the base to align the bottom of the base with the desired depth of cut indicator line marked on the lower blade guard.
- Tighten the depth lock knob securely.

OPERATING THE SAW

See Figures 12 - 14, page 15.

It is important to understand the correct method for operating the saw. Refer to the figures in this section to learn the correct and incorrect ways for 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 possible 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 the lower blade guard is closed before setting the saw down.

To make the best possible cut, follow these helpful hints.

- Hold the saw firmly with both hands.
- Avoid placing your hand on the workpiece while making a cut.
- Support the workpiece so that the cut (kerf) is always to your side.
- Support the workpiece near the cut.
- Clamp the workpiece securely so that the workpiece will not move during the cut.
- Always place the saw on the workpiece that is supported, not the “cut off” piece.
- Place the workpiece with the “good” side down.
- Draw a guideline along the desired line of cut before beginning your cut.

CROSS CUTTING/RIP CUTTING

See Figure 15, page 15.

When making a cross cut or rip cut, align the line of cut with the outer blade guide notch on the base.

Since blade thicknesses vary, always make a trial cut in scrap material along a guideline to determine how much, if any, you must offset the guideline to produce an accurate cut.

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

RIP CUTTING

See Figure 16, page 15.

Use a guide when making long or wide rip cuts with the saw.

- Secure the workpiece.
- Clamp a straight edge to the workpiece using C-clamps.
- Saw along the straight edge to achieve a straight rip cut.

NOTE: Do not bind the blade in the cut.

WIDTH OF CUT SCALE

See Figure 17, page 15.

A width of cut scale has been provided on the base of the saw. When making straight cross cuts or rip cuts, the scale can be used to measure up to 4-1/2 in. on the right side of the blade, and up to 1 in. on the left side of the blade.

BEVEL CUTTING

See Figures 18 - 19, page 15.

- Align the line of cut with the inner blade guide notch on the base when making 45° bevel cuts.
- Make a trial cut in scrap material along a guideline to determine how much you should offset the guideline on the cutting material.
- Adjust the angle of the cut to any desired setting between zero and 50°. Refer to **Adjusting the Bevel Setting** next.

OPERATION

ADJUSTING THE BEVEL SETTING

See Figure 19, page 15.

- Loosen the bevel lock knob.
- Raise the motor housing end of the saw until you reach the desired angle setting on the bevel scale.
- Tighten the bevel lock knob securely.

WARNING:

Attempting a bevel cut without having the bevel lock knob securely tightened can result in serious injury.

MAKING A BEVEL CUT

See Figure 19, page 15.

- Hold the saw firmly with both hands as shown.
- Rest the front edge of the base on the workpiece.
- Start the saw and let the blade reach full speed.
- Guide the saw into the workpiece and make the cut.
- Release the trigger and allow the blade to come to a complete stop.
- Lift the saw from the workpiece.

POCKET CUTTING

See Figure 20, page 15.

WARNING:

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

- Adjust the bevel setting to zero.
- Set the blade to the correct blade depth setting.
- Swing the lower blade guard up using the lower blade guard handle.

NOTE: Always raise the lower blade guard with the handle to avoid serious injury.

- Hold the lower blade guard by the handle as shown.

WARNING:

Never extend your fingers while holding the lower blade guard handle. Extending your fingers may result in contact with the blade, causing serious injury.

- Rest the front of the base flat against the workpiece with the rear of the handle raised so the blade does not touch the workpiece.
- Start the saw and let the blade reach full speed.
- Guide the saw into the workpiece and make the cut.

WARNING:

Always cut in a forward direction when pocket cutting. Cutting in the reverse direction could cause the saw to climb up on the workpiece and back toward you.

- Release the trigger and allow the blade to come to a complete stop.
- Lift the saw from the workpiece.
- Clear corners out with a hand saw or sabre saw.

WARNING:

Never tie the lower blade guard in a raised position. Leaving the blade exposed could lead to serious injury.

ADJUSTMENTS

WARNING:

To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the product when making adjustments.

0° BEVEL STOP

See Figure 21, page 16.

The saw has a 0° bevel stop that has been factory adjusted to assure 0° angle of the saw blade to the base plate when making 90° cuts.

CHECKING 0° BEVEL STOP

See Figure 21, page 16.

- Remove battery pack.
- Place the saw in an upside down position on a workbench.
- Check the squareness of the saw blade plate to the base of the saw using a carpenter's square.

ADJUSTING 0° BEVEL STOP

See Figure 21, page 16.

- Remove battery pack.
- Loosen bevel lock knob. Adjust the base to 0° bevel setting and tighten bevel lock knob.
- Loosen hex nut securing adjusting screw.
- Turn adjusting screw and adjust base until square with saw blade.
- Tighten hex nut and bevel lock knob securely.

WARNING:

Attempting a bevel cut without having the bevel lock knob securely tightened can result in serious injury.

MAINTENANCE

WARNING:

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

WARNING:

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.

WARNING:

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

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

WARNING:

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

ACCESSORIES

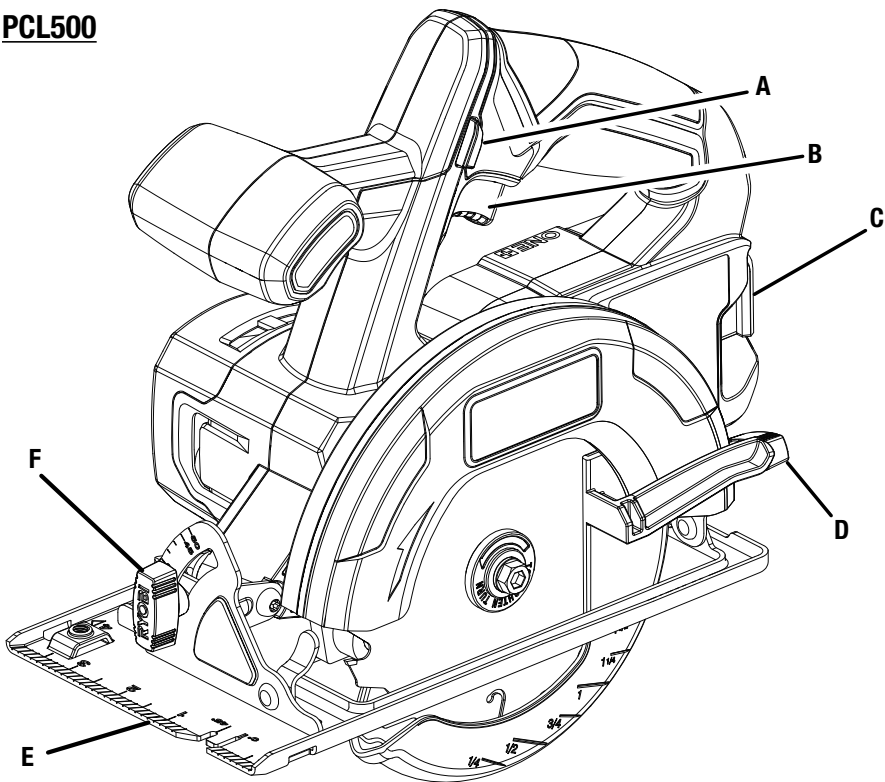
Look for these accessories where you purchased this product or call 1-800-525-2579:

- Blade, 140 mm x 1.5 mm670973055
- Hex Key680020001
- Vacuum Adaptor543072001



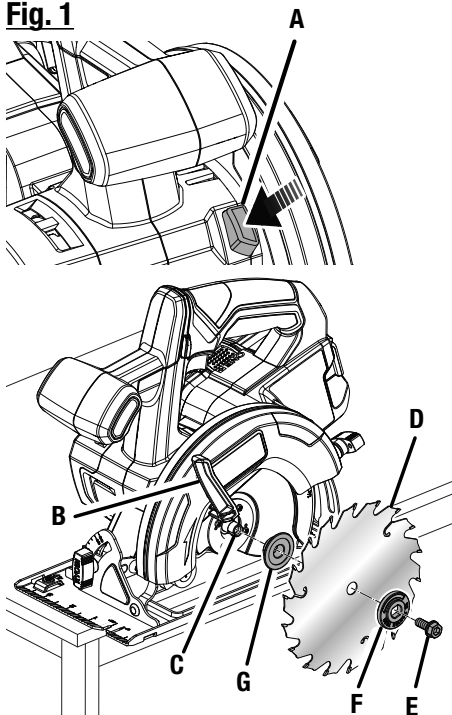
WARNING:
Current attachments and accessories available for use with this product are listed above. Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

**NOTE: ILLUSTRATIONS START ON PAGE 13 AFTER
FRENCH AND SPANISH LANGUAGE SECTIONS.**



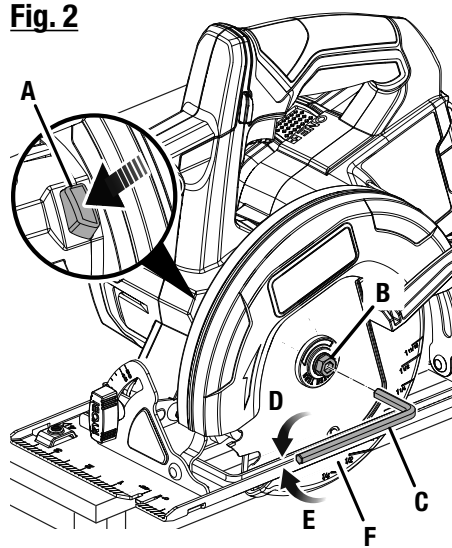
- A - Lock-off button (bouton de verrouillage, botón del seguro de apagado)
- B - Switch trigger (gâchette de commutateur, gatillo del interruptor)
- C - Blade wrench storage area (rangement de clé de lame, área de guardar la llave de la hoja)
- D - Depth lock knob (bouton de verrouillage de profondeur, perilla de fijación de profundidad)
- E - Width of cut scale (échelle de largeur de la coupe, escala de anchura)
- F - Bevel lock knob (bouton de verrouillage de biseau, perilla de fijación del bisel)

Fig. 1



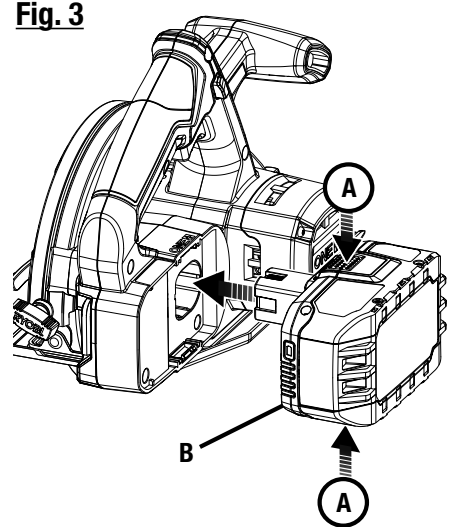
- A - Spindle lock button (bouton de verrouillage de broche, botón del seguro del husillo)
- B - Lower blade guard handle (poignée de garde de lame inférieur, mango de la protección inferior de la hoja)
- C - Spindle (broche, husillo)
- D - Blade (lame, hoja)
- E - Blade screw (vis de lame, tornillo de la hoja)
- F - Outer blade washer (rondelle de lame extérieure, arandela exterior de la hoja)
- G - Inner blade washer (rondelle de lame intérieure, arandela interior de la hoja)

Fig. 2



- A - Spindle lock (verrouillage de broche, husillo con seguro)
- B - Blade screw (vis de lame, tornillo de la hoja)
- C - Blade wrench (clé pour lame, llave de hoja)
- D - To tighten (pour serrer, para apretar)
- E - To loosen (pour desserrer, para aflojar)
- F - Blade (lame, hoja)

Fig. 3



- A - Depress latches to remove battery pack (appuyer sur les loquets pour libérer le bloc-piles, para soltar el paquete de baterías, oprima los pestillos)
- B - Battery pack (bloc-piles, paquete de baterías)

Fig. 4

**KICKBACK - BLADE SET TOO DEEP
(REBOND - PROFONDEUR DE COUPE
EXCESSIVE, CONTRAGOLPE - LA HOJA
SE AJUSTO MUY PROFUNDA)**

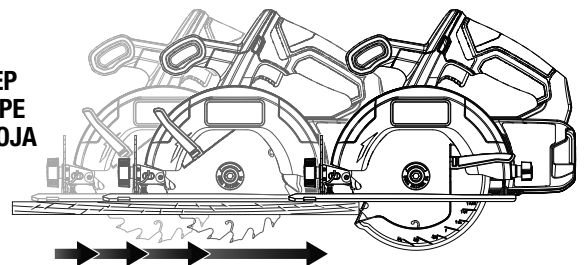


Fig. 5 **INCORRECT SUPPORT**
(SUPPORT INCORRECT,
SOPORTE INCORRECTO)

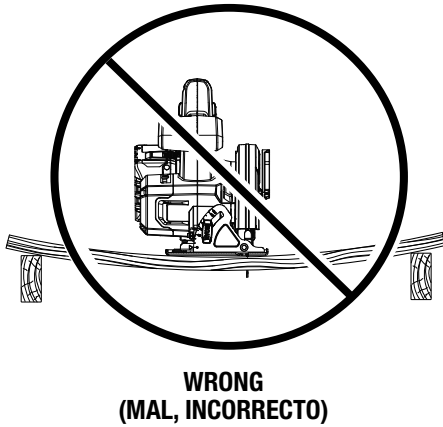


Fig. 6

**CORRECT BLADE DEPTH SETTING = BLADE
EXPOSED 1/4 in. (6.35 mm) OR LESS ON
UNDERSIDE OF WORKPIECE**

(RÉGLAGE DE PROFONDEUR DE COUPE
CORRECT = LA LAME DÉPASSE DE 1/4
PO (6,35 mm) OU MOINS AU-DESSOUS
DE LA PIÈCE, AJUSTE CORRECTO DE
LA PROFUNDIDAD DE LA HOJA = HOJA
EXPUESTA 1/4 PULG. (6,35 mm) O MENOS
BAJO LA PIEZA DE TRABAJO)

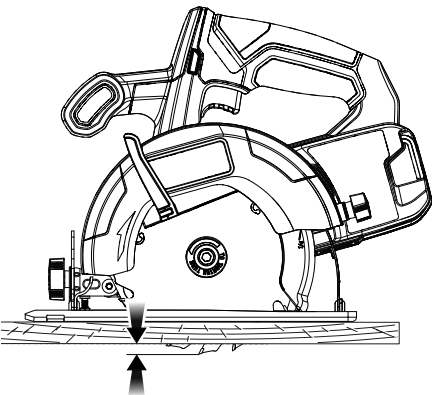


Fig. 7

CORRECT SUPPORT
(SUPPORT CORRECT,
SOPORTE CORRECTO)

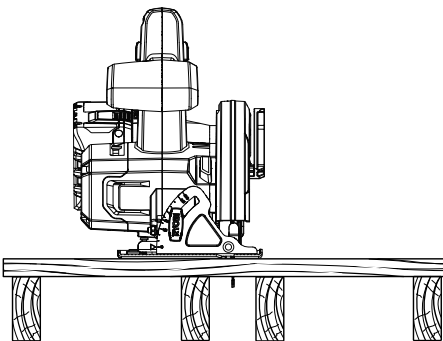
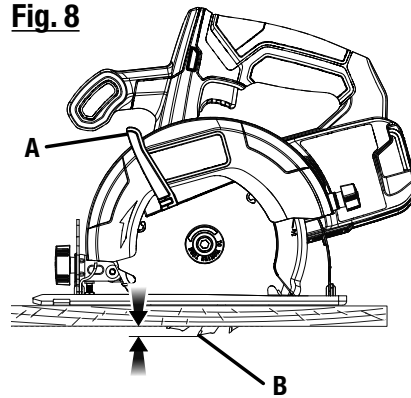
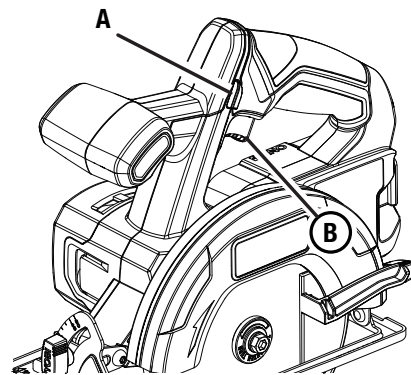


Fig. 8



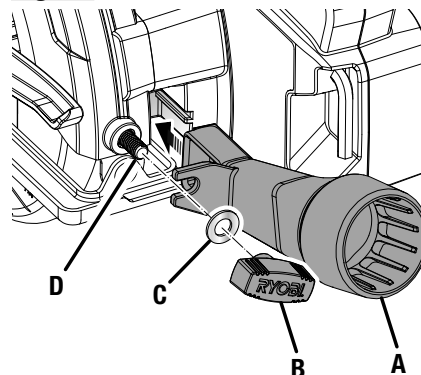
A - Lower blade guard is in up position when making a cut (pendant la coupe, la garde inférieure est relevée, la protección inferior de la hoja está en la posición elevada al efectuarse cortes)
B - Blade exposed on underside of workpiece (lame dépassant au-dessous de la pièce, porción expuesta de la hoja bajo la pieza de trabajo)

Fig. 9



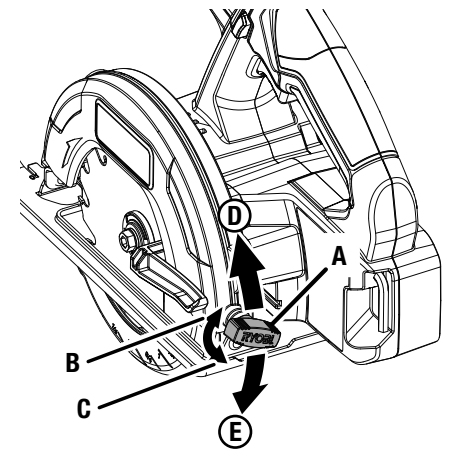
A - Lock-off button (bouton de verrouillage, botón del seguro de apagado)
B - Switch trigger (gâchette de commutateur, gatillo del interruptor)

Fig. 10

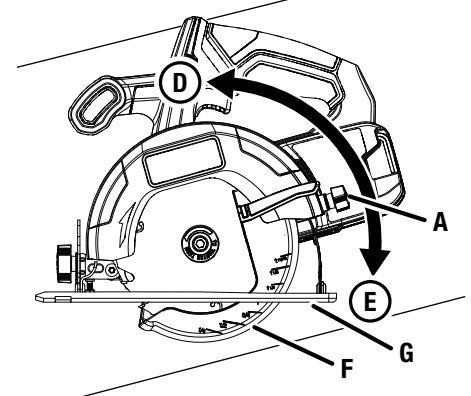


A - Vacuum adaptor (optional) [adaptateur d'aspiration (optionnel), adaptador para aspiradora (opcional)]
B - Depth lock knob (bouton de verrouillage de profondeur, perilla de fijación de profundidad)
C - Washer (rondelle, arandela)
D - Depth lock knob post (tige de bouton de verrouillage de profondeur, poste de perilla de fijación de profundidad)

Fig. 11

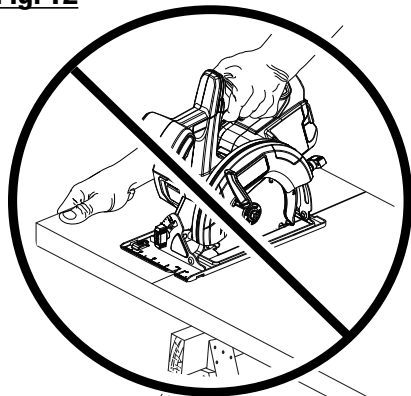


TOP VIEW OF SAW ON WORK SURFACE
VUE SUPÉRIEURE DE LA SCIE SUR LA
SURFACE DE TRAVAIL
VISTA SUPERIOR DE LA SIERRA EN LA
SUPERFICIE DE TRABAJO



A - Depth lock knob (bouton de verrouillage de profondeur, perilla de fijación de profundidad)
B - To tighten depth lock (pour serrer verrouillage de profondeur, para apretar fijación de profundidad)
C - To loosen depth lock (pour desserrer verrouillage profondeur, para aflojar fijación de profundidad)
D - To increase depth of cut (pour augmenter la profondeur de coupe, para aumentar la profundidad de corte)
E - To decrease depth of cut (pour réduire la profondeur de coupe, para disminuir la profundidad de corte)
F - Depth of cut scale (levier de réglage de profondeur, palanca de ajuste de profundidad)
G - Base (base, base)

Fig. 12



WRONG (MAL, INCORRECTO)

Fig. 13

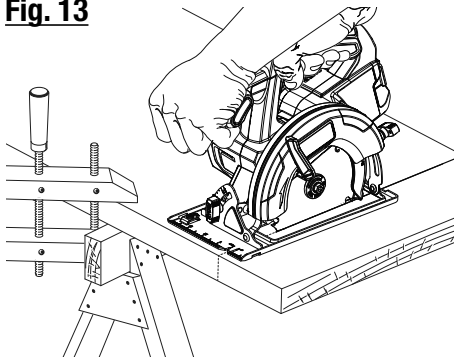
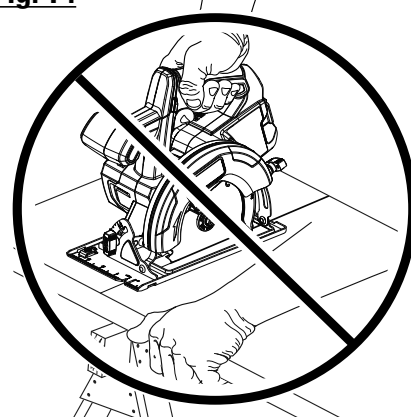


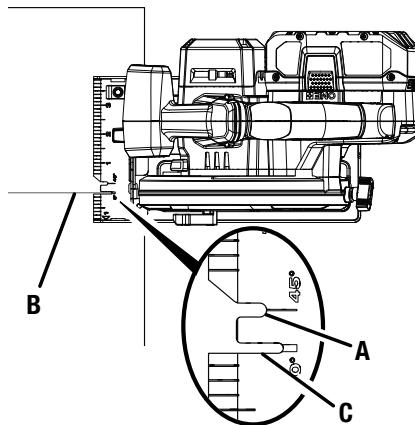
Fig. 14



WRONG (MAL, INCORRECTO)

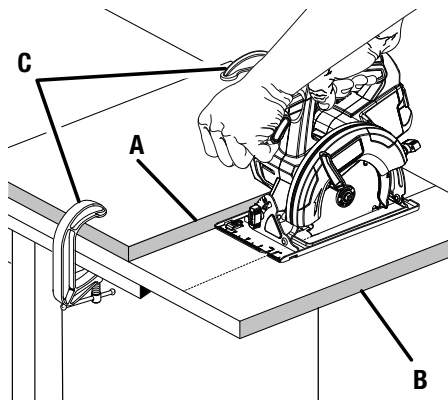
Fig. 15

**TOP VIEW OF SAW
(VUE SUPÉRIEURE DE SCIE,
VISTA SUPERIOR DE LA SIERRA)**



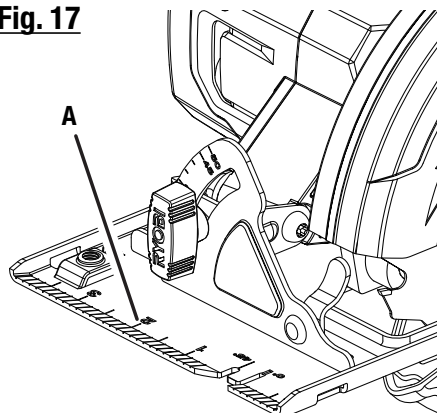
A - 45° blade guide notch (encoche guide de lame de 45°, muesca guía de la hoja de 45°)
B - Guideline (ligne de coupe, línea guía)
C - 0° blade guide notch (encoche guide de lame de 0°, muesca guía de la hoja de 0°)

Fig. 16



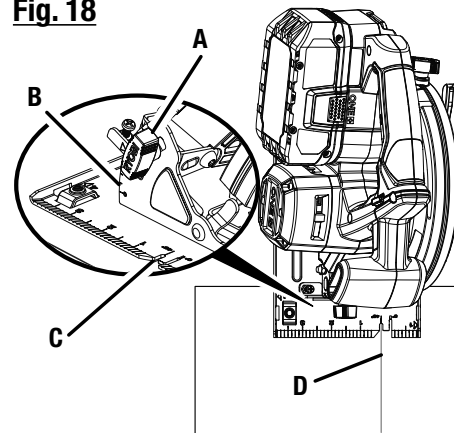
A - Straight edge (règle, regla)
B - Workpiece (pièce, pieza de trabajo)
C - C-Clamp (serre-joint, prensa en C)

Fig. 17



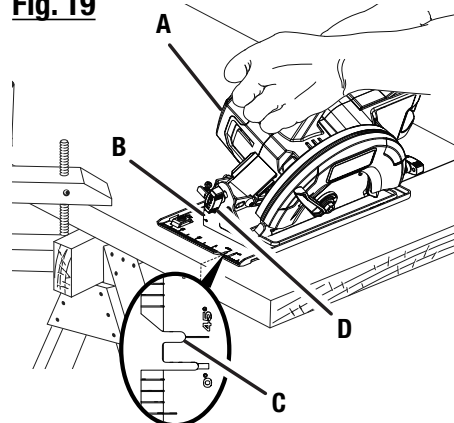
A - Width of cut scale (échelle de largeur de la coupe, ancho de corte)

Fig. 18



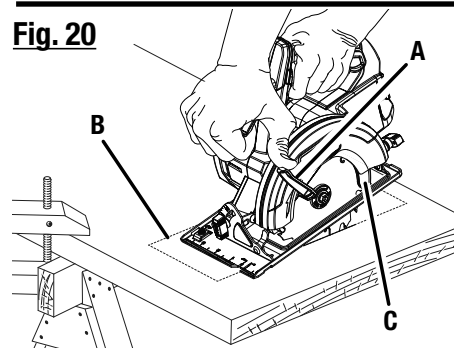
A - Bevel lock knob (bouton de verrouillage de biseau, perilla de fijación del bisel)
B - Bevel scale (échelle de biseau, escala de bisel)
C - 45° blade guide notch (encoche guide de lame de 45°, muesca guía de la hoja de 45°)
D - Guideline (ligne de coupe, línea guía)

Fig. 19



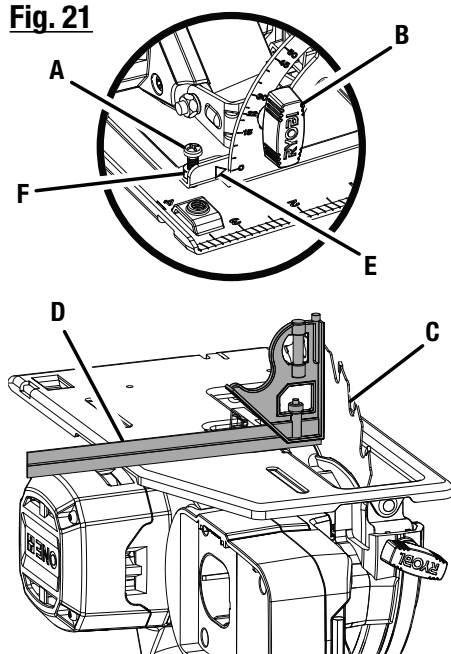
A - Motor housing (boîtier du moteur, alojamiento del motor)
B - Bevel scale (échelle de biseau, escala de bisel)
C - 45° blade guide notch (encoche guide de lame de 45°, muesca guía de la hoja de 45°)
D - Bevel lock knob (bouton de verrouillage de biseau, perilla de fijación del bisel)

Fig. 20



A - Lower blade guard handle (poignée de garde de lame inférieur, manija de la protección inferior de la hoja)
B - Pocket cut (évidement, corte en cavidad)
C - Lower blade guard (garde de lame inférieure, protección inferior de la hoja)

Fig. 21



- A - Adjustment screw (vis de réglage, tornillo de ajuste)
B - Bevel lock knob (bouton de verrouillage de biseau, perilla de fijación del bisel)
C - Blade (lame, hoja)
D - Carpenter's square (équerre de charpentier, escuadra de carpintero)
E - Positive 0° bevel stop (butée fixe de biseau à 0°, tope de bisel a 0°)
F - Hex nut (écrous à six pans, tuerca hexagonal)

NOTES/NOTAS

[illegible]



OPERATOR'S MANUAL/5-1/2 in. ONE+ 18V CIRCULAR SAW
MANUEL D'UTILISATION/SCIE CIRCULAIRE DE 140 mm (5-1/2 po) DE 18 V DE ONE+
MANUAL DEL OPERADOR/SIERRA CIRCULAR DE 140 mm (5-1/2 pulg.) DE
ONE+ 18 V
PCL500

To request service, purchase replacement parts,
locate an Authorized Service Center or obtain Customer or Technical Support:
Visit **www.ryobitools.com** or call **1-800-525-2579**

If any parts or accessories are damaged or missing, do not return this product to the store.
Call **1-800-525-2579** for immediate service.

Please obtain your model and serial number from the product data plate.
This product is covered under a 3-year limited Warranty. Proof of purchase is required.

MODEL NUMBER* _____ SERIAL NUMBER _____

**Model number on product may have additional letters at the end. These letters designate manufacturing information and should be provided when calling for service.*

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Ce produit est couvert par une garantie limitée de trois (3) ans. Une preuve d'achat est exigée.

NUMÉRO DE MODÈLE* _____ NUMÉRO DE SÉRIE _____

**Le numéro de modèle sur le produit peut contenir des lettres supplémentaires à la fin. Ces lettres désignent les informations du fabricant et doivent être fournies lors d'un appel de demande de service.*

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Llame al **1-800-525-2579** (en la EE.UU.) o **800-843-1111** (en México) para servicio técnico inmediato.

Obtenga su modelo y número de serie de la placa de datos del producto.
Este producto está cubierto con una garantía limitada de 3 años. Se solicita prueba de la compra.

NÚMERO DE MODELO* _____ NÚMERO DE SERIE _____

**El número de modelo que figura en el producto podría tener letras adicionales al final. Estas designan información de fabricación y deben suministrarse cuando llame para obtener asistencia o servicio.*

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