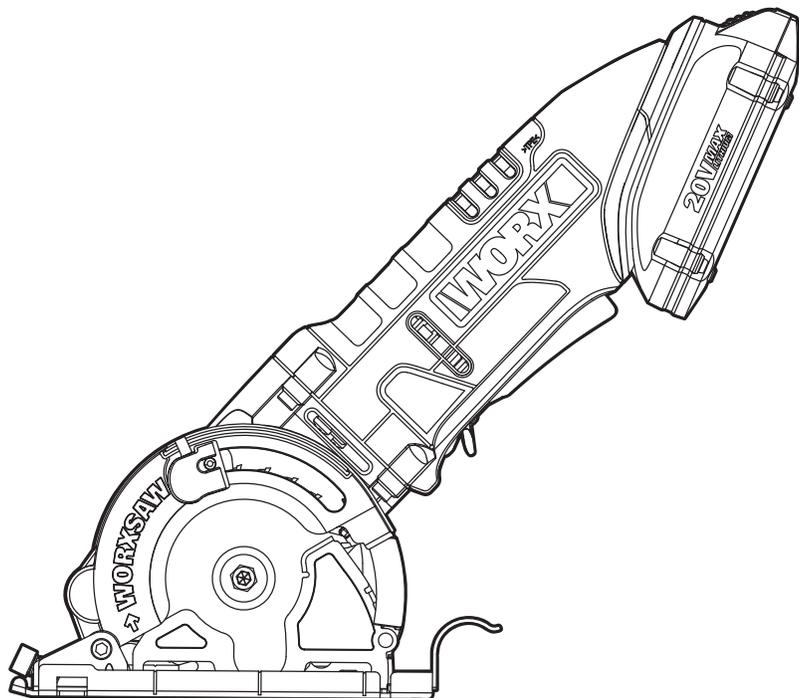


WORX®



WORXSAW

20V MAX LITHIUM

Lithium-Ion Cordless Circular Saw

EN

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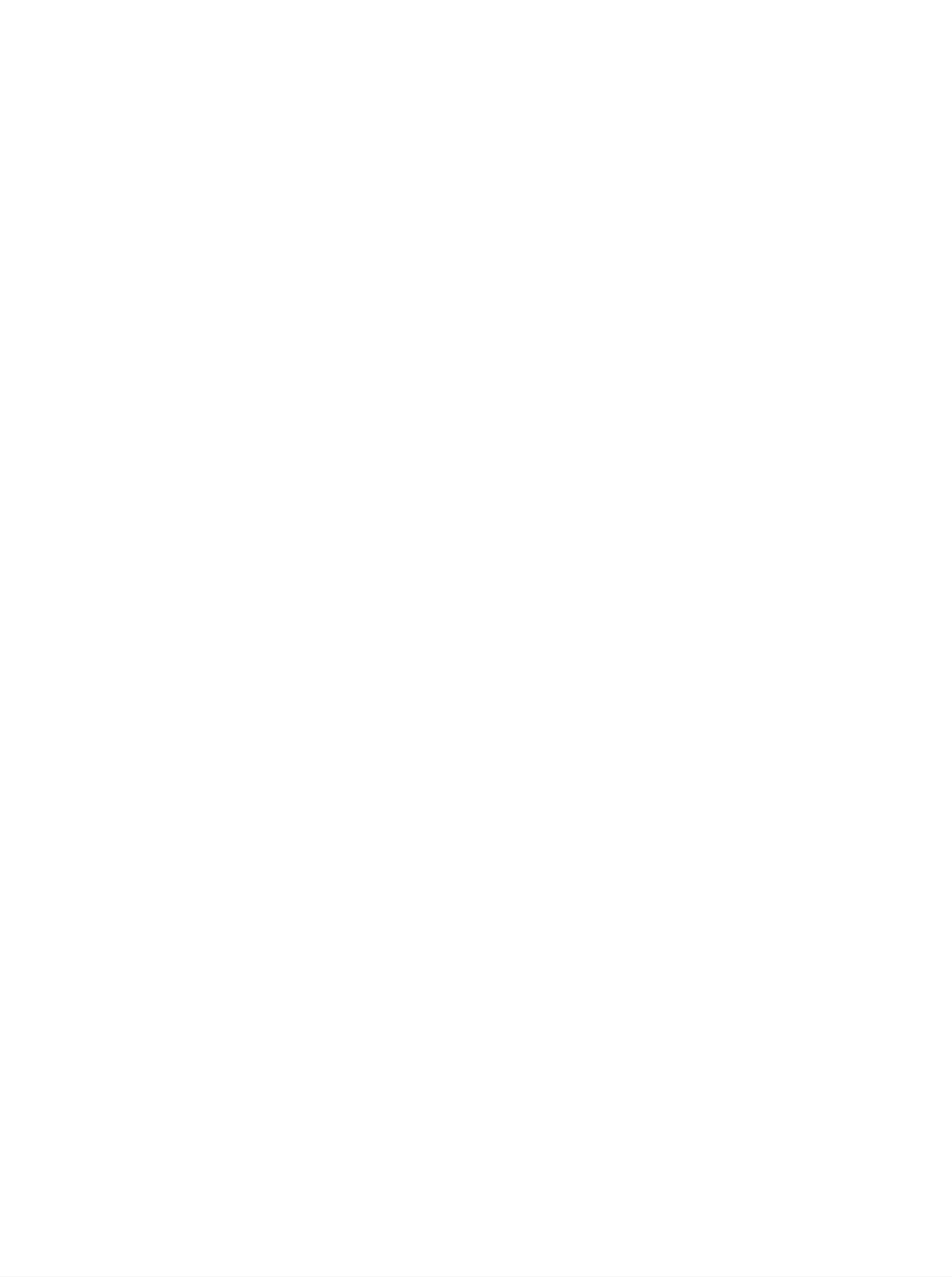
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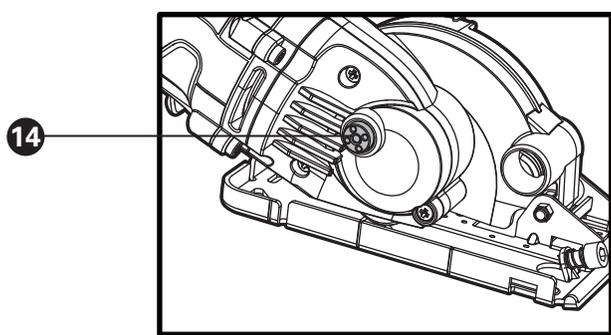
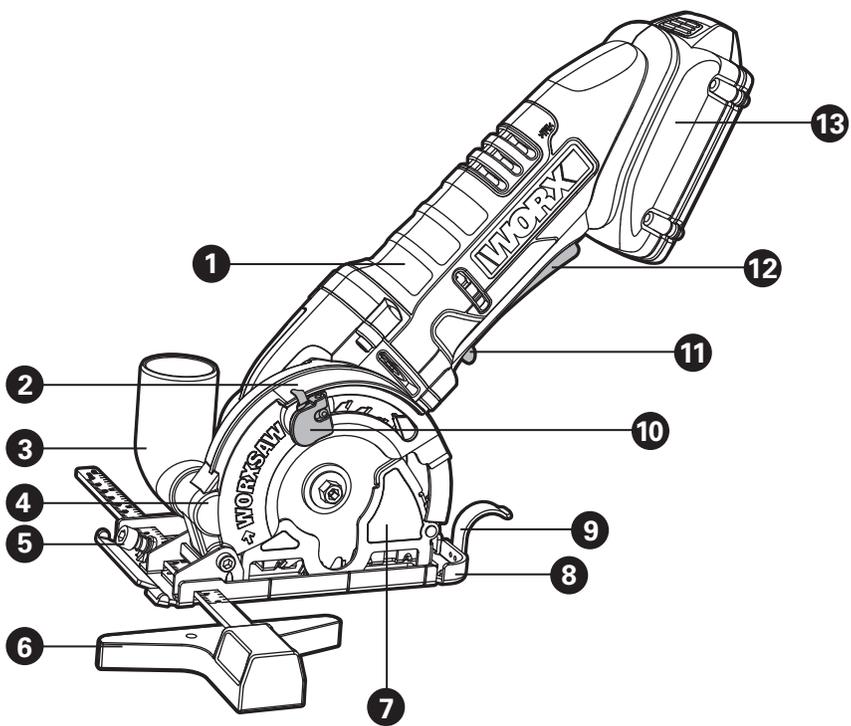
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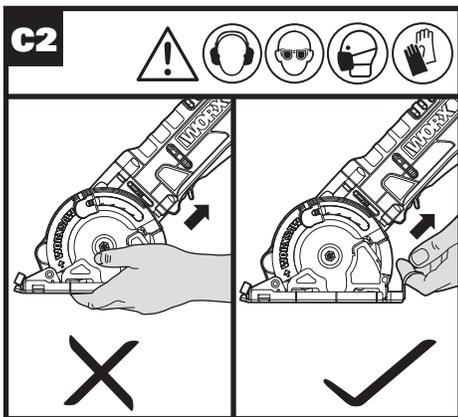
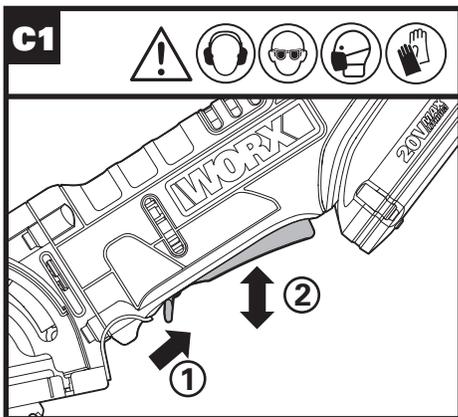
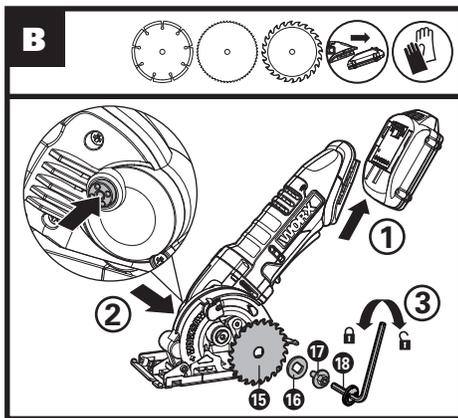
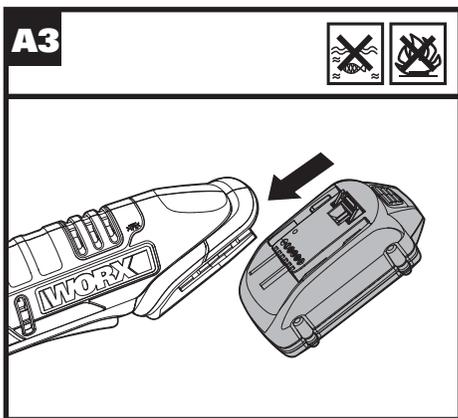
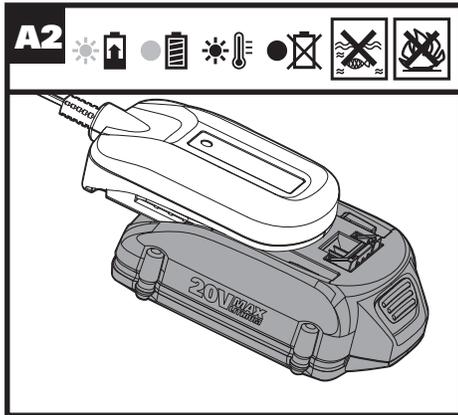
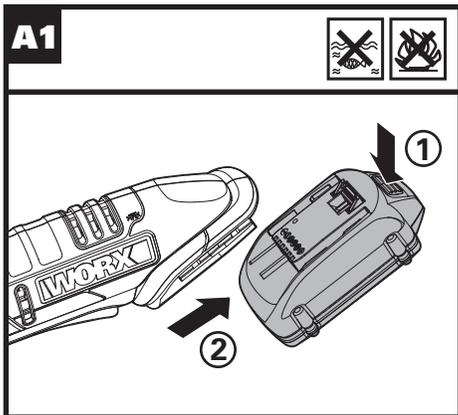


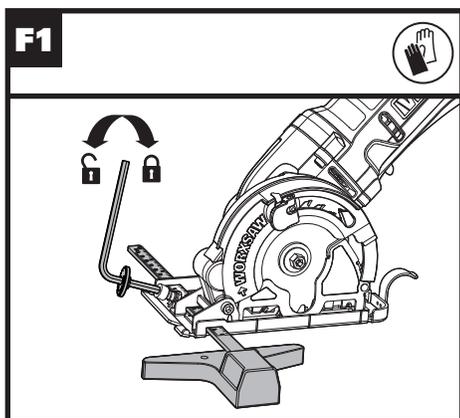
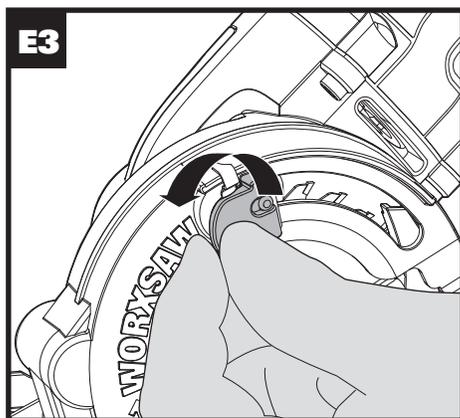
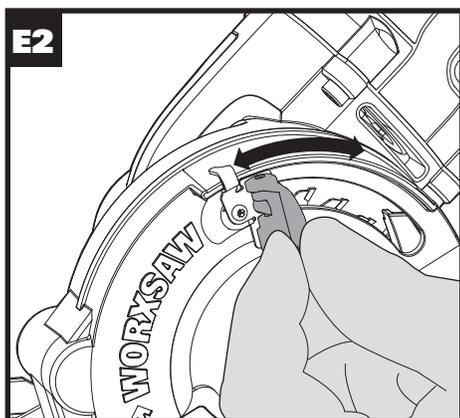
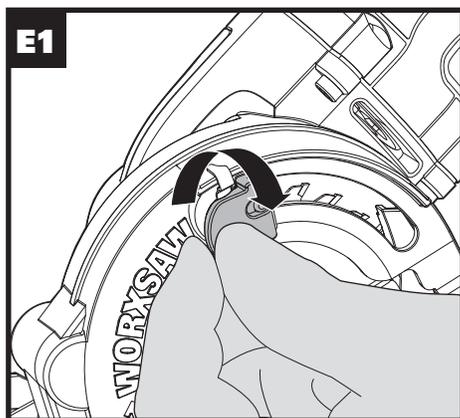
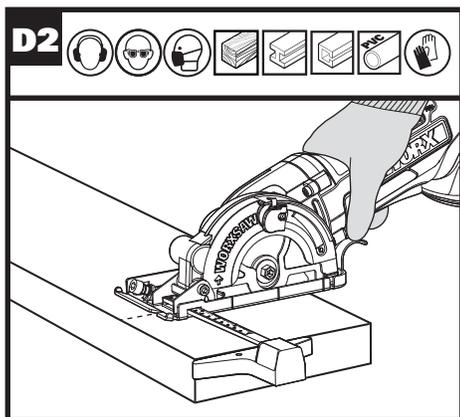
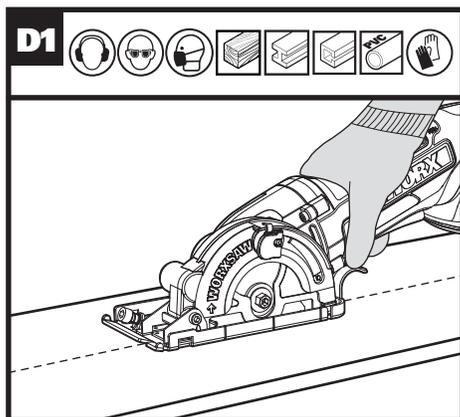
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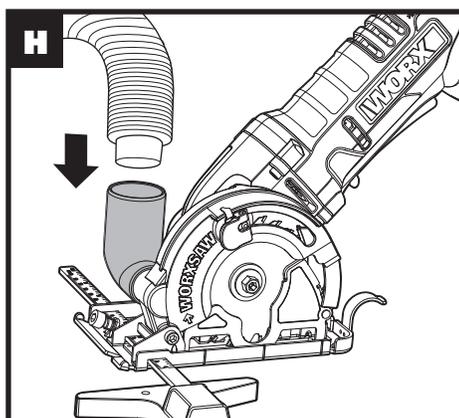
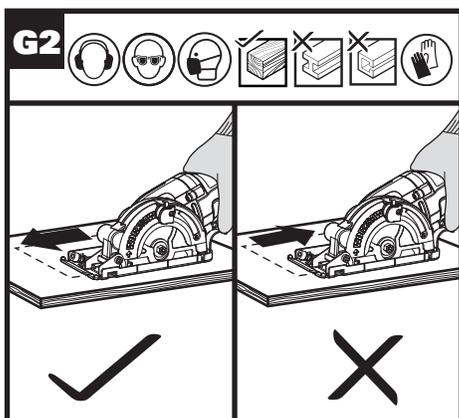
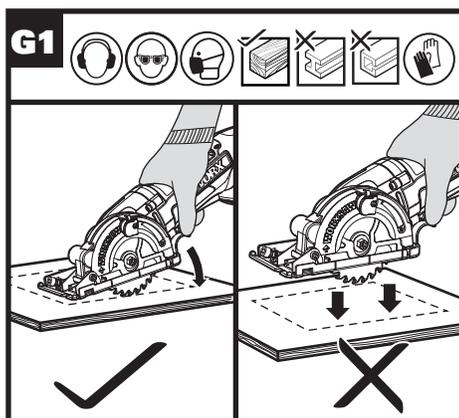
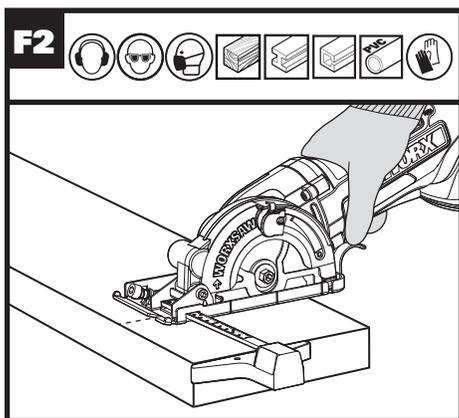
WX523L WX523L.9











1. **SOFT GRIP HANDLE**
2. **FIXED UPPER GUARD**
3. **VACUUM ADAPTER**
4. **DUST EXTRACTION OUTLET**
5. **PARALLEL GUIDE CLAMPING FIXTURE**
6. **PARALLEL GUIDE**
7. **LOWER BLADE GUARD**
8. **BASE PLATE**
9. **LOWER GUARD LEVER**
10. **DEPTH ADJUSTMENT LEVER**
11. **LOCK OFF BUTTON**
12. **ON/OFF SWITCH**
13. **BATTERY PACK***
14. **SPINDLE LOCK BUTTON**
15. **SAW BLADE (See Fig. B)**
16. **BLADE BOLT (See Fig. B)**
17. **OUTER FLANGE (See Fig. B)**
18. **HEX KEY (See Fig. B)**

* Not all the accessories illustrated or described are included in standard delivery.

TECHNICAL DATA

	WX523L	WX523L.9
Rated voltage:	20V \equiv Max**	
Rated no load speed n_0	2300r/min	
Blade diameter	3-3/8"	
Blade bore	19/32"	
Cutting capacity Cutting depth at 90°	1-1/16"	
Machine weight	4.1 lbs	3.2 lbs

**Voltage measured without workload. Initial battery voltage reaches maximum of 20 volts. Nominal voltage is 18 volts.

ACCESSORIES

	WX523L	WX523L.9
TCT 24T Blade	1	1
Parallel Guide	1	1
Vacuum Adaptor	1	1
Hex Key	1	1
Battery	1	/
Charger	1	/

We recommend that you purchase your accessories from the same store that sold you the tool. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

Only use the appropriate accessories intended for this tool. Accessory information can be found on the product packaging, at a WORX dealer or on our website at www.worx.com.

PRODUCT SAFETY

WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints;
- Crystalline silica from bricks and cement and other masonry products and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

WARNING: This product may contain lead, phthalate or other chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Wash your hands after use.

GENERAL POWER TOOL SAFETY WARNINGS

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 electric (corded) power tool or battery-operated (cordless) power tool.

1. WORK AREA SAFETY

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

2. ELECTRICAL SAFETY

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

3. PERSONAL SAFETY

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or**

battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
 - e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
 - g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- ### 4. POWER TOOL USE AND CARE
- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
 - b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
 - c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
 - e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
 - f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - g) **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

5. BATTERY TOOL USE AND CARE

- a) **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.
 - b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
 - c) **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.
 - d) **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.
- 6. SERVICE**
- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

SAFETY WARNINGS FOR ALL SAWS

- a)  **DANGER: Keep hands away from cutting area and the blade.** If both hands are holding the saw, they cannot be cut by the blade.
- b) **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- c) **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
- d) **Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform.** It is important to support the work properly to minimize body exposure, blade binding, or loss of control.
- e) **Hold the power tool by insulated gripping surfaces only, 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.
- f) **When ripping always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.

- g) **Always use blades with correct size and shape (diamond versus round) of arbor holes.** Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- h) **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

FURTHER SAFETY INSTRUCTIONS FOR ALL SAWS

Causes and operator prevention of kickback:

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

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

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

near the edge of the panel.

- e) **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- f) **Blade depth and bevel adjusting locking levers must be tight and secure before making cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.
- g) **Use extra caution when making a “plunge cut” into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.

SAFETY INSTRUCTIONS FOR PLUNGE TYPE SAW

- a) **Check guard for proper closing before each use. Do not operate the saw if guard does not move freely and enclose the blade instantly. Never clamp or tie the guard so that the blade is exposed.** If saw is accidentally dropped, guard may be bent. Check to make sure that guard moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- b) **Check the operation and condition of the guard return spring. If the guard and the spring are not operating properly, they must be serviced before use.** Guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- c) **Assure that the base plate of the saw will not shift while performing the “plunge cut” when the blade bevel setting is not at 90°.** Blade shifting sideways will cause binding and likely kickback.
- d) **Always observe that the 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.

ADDITIONAL SAFETY WARNING FOR TILE CUTTING

- a) **The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel.** The guard helps to protect operator from broken wheel fragments and accidental contact with wheel.
- b) **Use only diamond cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure

safe operation.

- c) **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- d) **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- e) **Always use undamaged wheel flanges that are of correct diameter for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.
- f) **Do not use worn down reinforced wheels from larger power tools.** Wheels intended for a larger power tool are not suitable for the higher speed of a smaller tool and may burst.
- g) **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- h) **The arbour size of wheels and flanges must properly fit the spindle of the power tool.** Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- i) **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- j) **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations.** The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- k) **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken wheel may fly away and cause injury beyond immediate area of operation.
- l) **Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a “live” wire may make

exposed metal parts of the power tool “live” and could give the operator an electric shock.

- m) **Never lay the power tool down until the accessory has come to a complete stop.** The spinning wheel may grab the surface and pull the power tool out of your control.
- n) **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- o) **Regularly clean the power tool’s air vents.** The motor’s fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- p) **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

- literature for future reference.**
- 14) **Do not use any charger other than that specifically provided for use with the equipment.** Secondary cells and batteries need to be charged before use. Always use the correct charger and refer to the manufacturer’s instructions or equipment manual for proper charging instructions.
 - 15) When possible, remove the battery from the equipment when not in use.
 - 16) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the appliance. Carrying the appliance with your finger on the switch or energizing appliance that have the switch on invites accidents.
 - 17) Disconnect the battery pack from the appliance before making any adjustments, changing accessories, or storing appliance. Such preventive safety measures reduce the risk of starting the appliance accidentally.

GENERAL SAFETY WARNINGS FOR BATTERY PACK

- 1) **WARNING: Risk of fire and burns. Do not disassemble, heat above 100°C (212°F), or incinerate. Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.**
- 2) **Dispose of used battery promptly.. When disposing of secondary cells or batteries, keep cells or batteries of different electrochemical systems separate from each other.**
- 3) **Keep battery out of reach of children and in original package until ready to use.**
- 4) **Never put batteries in mouth. If swallowed, contact your physician or local poison control center.**
- 5) **CAUTION – The battery used in this device may present a risk of fire or chemical burn if mistreated. Replace battery with WORX only. Use of another battery may present a risk of fire or explosion.**
- 6) **Warning: Do not use a visibly damaged battery pack or appliance as applicable.**
- 7) **Warning: Do not modify or attempt to repair the appliance or the battery pack as applicable.**
- 8) **BATTERY MUST BE RECYCLED.**
- 9) **Do not short-circuit a cell or battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.**
- 10) **Do not subject cells or batteries to mechanical shock.**
- 11) **Keep cells and batteries clean and dry.** Wipe the cell or battery terminals with a clean dry cloth if they become dirty.
- 12) **Do not maintain secondary cells and batteries on charge when not in use.**
- 13) **Retain the original cell and battery**

SYMBOLS

	WARNING-To reduce the risk of injury, user must read instruction manual
	Warning
	Wear ear protection
	Wear eye protection
	Wear dust mask
	Do not expose to rain or water
	Do not burn

 Li-Ion	Li-Ion battery, battery must be recycled
	Make sure the battery is removed prior to changing accessories.
	Wear protective gloves
	Wood
	Metal
	Aluminium
	Plastic
	Tile
	Incorrect
	Correct
	Lock
	Unlock
	Diamond disc

	HSS blade
	TCT blade



call2recycle®

POSITEC Inc. has established a partnership with the RBRC Corporation to recycle any Positec batteries with the RBRC-call2recycle seal. For environmental protection, please do not discard batteries in the trash. After the batteries' life cycle is ended, please call 1-800-822-8837 for a free service that will properly dispose of the battery.

ASSEMBLY AND OPERATION

Action	Figure
BEFORE OPERATION	
Removing the battery pack	See Fig. A1
Charging the battery	See Fig.A2
Installing the battery pack	See Fig.A3
ASSEMBLY	
Saw blade Assembly and Removing  WARNING: Always remove the battery before changing the blade!	See Fig.B
Safety On/Off Switch  WARNING: To avoid cutting injury from the sharp blade, please don't put your hands around the Base Plate.	See Fig. C1, C2
Cross and Rip Cutting NOTE: To avoid injury from Kickback, please don't start cutting until the blade runs stably.	See Fig. D1, D2
Cutting Depth Adjusting	See Fig. E1, E2,E3
Parallel Guide	See Fig. F1, F2
Pocket Cutting	See Fig. G1, G2
Sawdust Removal	See Fig. H

WORKING HINTS FOR YOUR TOOL

If your power tool becomes too hot, please run your circular saw no load for 2-3 minutes to cool the motor. Avoid prolonged usage at very low speeds. Protect saw blades against impact and shock. Cutting with extreme force can significantly reduce the performance capability of the tool and reduces the service life of the saw blade. Sawing performance and cutting quality depend essentially on the condition and the tooth count of the saw blade. Therefore, use only sharp saw blades that are suited for the material being cut. Choice of blades: 24 teeth for general work, approx. 40 teeth for finer cuts, more than 40 teeth for very fine cuts into delicate surfaces, diamond for tile, cement board, etc. Only use saw blades recommended.

MAINTAIN TOOLS WITH CARE

Remove the battery before carrying out any adjustment, servicing or maintenance. 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 repaired by authorized service facility. Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. Periodically clear dust and chips from guard and base to ensure proper performance.

TROUBLE SHOOTING

Symptom	Possible Causes	Possible Solution
Tool will not start when operating the on/off switch.	Battery pack not plugged in. Battery pack is powered off. Carbon brush has worn down	Check to make sure battery pack is connected well into a working outlet. Charging the battery. Replace the carbon brush using a qualified maintenance person.
Cutting depth is less than that is set.	Sawdust accumulated at the rear of the base.	Shake out sawdust. Consider connecting a vacuum for dust collection.
Blade spins or slips	Blade is not tightly engaged with the spindle.	Remove the blade, and reassemble it as described in Saw Blade Assembly and Removing section.
Blade will not cut a straight line.	Blade is dull. Blade is not mounted properly. Saw is not being guided properly.	Mount a new, sharp blade on the saw. Check that blade is properly mounted. Use a parallel guide.
Blade kicks back when beginning a cut	Blade is not spinning fast enough	Allow the saw blade to reach full speed prior to beginning a cut in the material.

CAUTION/ATTENTION/PRECAUCIÓN



**LITHIUM ION BATTERY
BATTERIE AU LITHIUM-ION
BATERÍA DE ION DE LITIO**



**Do Not Load or Transport Package if Damaged
Il est interdit de charger ou de transporter le paquet s'il est endommagé
No cargue o transporte el paquete si está dañado**

For more information, call / Pour plus d'informations, appelez-le / Para mayor información, llame al
Within USA and Canada / Aux États-Unis et au Canada / Dentro de EUA y
Canadá: 1-800-424-9300

Outside USA and Canada / Hors des États-Unis et du Canada / Fuera de
EUA y Canadá: +1-703-741-5970

Non Emergency / Hors urgence / No Emergencia: 855-694-2388

WORX

you've got the power

www.worx.com

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