User Manual

Manual del usuario



Cordless Circular Saw 20V LITHIUM-ION BATTERY **Spanish Spanish Spanish** CON BATERÍA DE IONES DE LITIO DE 20V

English.....1 Español.....20



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Getting Started

Carefully remove the machine from its packaging. Identify all the parts packaged in the carton against the parts list. Remove all protective materials and place parts on a non-abrasive surface to avoid scratching. Please contact our customer service center (Monday-Friday 8:30AM-5:00PM ET) at 1-866-902-9690.

Caution

Read all instructions before assembly. Failure to do so may result in faulty assembly and potential injury! Assemble product on a soft, non-abrasive surface such as carpet or cardboard to avoid damaging the item. Seek assistance to assemble bulky or heavy items. After final alignments, make sure all bolts and nuts are securely tightened with screw covers pressed in place.

Warning

- Read all instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when a product is used near children.
- Know how to stop the product quickly. Be thoroughly familiar with the controls.
- Stay alert watch what you are doing.
- Do not operate the product when fatigued or under the influence of alcohol, drugs, or medication.
- Keep operating area clear of other people.
- Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- Follow the maintenance instructions specified in the manual.

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Safety Symbols

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



Read the manual before set-up and/or use.

WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.

WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.



Double Insulated



Amperes

n•xxxx/min. No Load Revolutions per Minute (RPM)



WARNING! marking concerning Risk of Fire. Do not cover Charger ventilation ducts. Charge on fireproof surface only.



WARNING! marking concerning Risk of Electric Shock. Properly connect Charger's power cord to appropriate outlet.



WARNING! marking concerning Risk of Explosion. Do not puncture, short, or open battery packs and do not charge damaged battery packs.



Safety Instructions

WARNING AND DEFINITIONS



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

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 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

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use 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 safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure 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, clothing and gloves 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 these devices can reduce dust-related hazards.
- Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

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 the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar



with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and blades etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Battery tool use and care

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. 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.

Service

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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.

Circular Saw Safety Warnings

- 1. DANGER: Keep hands away from cutting area and the blade. If both hands are holding the saw, they cannot be cut by the blade.
- 2. Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- 3. 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.

- 4. 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.
- 5. Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- 6. When ripping always use a rip fence or straight edge guide. 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 eccentrically, causing loss of control.
- 8. 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.
- 9. 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, center 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 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.



- 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.
- 10. Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- 11. 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.
- 12. Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- 13. 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.
- 14. DO NOT USE THIS SAW WITH THE SAW HELD UPSIDE DOWN IN A VISE. The saw is not designed for such use and cannot be used safely in that position.
- 15. Do not use to cut logs, tree limbs, or uneven lumber.
- 16. Wet lumber, green (unseasoned) lumber, and pressure treated lumber all have an increased potential for kickback and should only be cut with a blade for cutting that lumber type. Wear a NIOSH-approved respirator and have appropriate ventilation whenever cutting pressure treated lumber.
- 17. Do not use blades made from high-speed steel, abrasive blades, metal-cutting blades or masonry-cutting blades. The guards of this saw are not designed to protect against the failure of such blades.
- Place the larger portion of the saw base on the larger, supported part of the workpiece. This will help maintain balance and control while the cut is completed.
- 19. Blades must be rated to at least the maximum speed marked on the tool.
- 20. Maintain labels and nameplates on the tool. These carry important safety information.
- 21. Avoid unintentional starting. Prepare to begin work before turning on the tool.



- 22. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- 23. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- 24. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
- 25. Use clamps (not included) or other practical ways 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.



The battery charger gets hot during use. The charger's heat can build up to unsafe levels and create a fire hazard if it does not receive adequate ventilation, due to an electrical fault, or if it is used in a hot environment.

Do not place the charger on a flammable surface. Do not obstruct any vents on the charger. Especially avoid placing the charger on carpets and rugs; they are not only flammable, but they also obstruct vents under the charger.

Place the charger on a stable, solid, nonflammable surface (such as a stable metal workbench or concrete floor) at least 1 foot away from all flammable objects, such as drapes or walls. Keep a fire extinguisher and a smoke detector in the area. Frequently monitor the charger and battery while charging.

- 27. This product is not a toy. Keep it out of reach of children.
- 28. Verify that there are no utility lines or hardware in or near the workpiece. This is especially critical for plunge cuts.
- 29. Do not depress the spindle lock when starting or during operation.
- 30. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should:
 - Avoid operating alone.
 - Do not use with power switch locked on.
 - Properly maintain and inspect to avoid electrical shock.
 - Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented it prevents sustained electrical shock.
- 31. 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 and birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints
 - Crystalline silica from bricks and cement or other masonry products
 - 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. (California Health & Safety Code § 25249.5, et seq.)

- 32. WARNING: The cord of this product contains lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)
- 33. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

- Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- 2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
- 3. Use tools with the lowest vibration when there is a choice.
- 4. Include vibration-free periods each day of work.
- 5. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
- 6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

Grounding



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WARNING! TO PREVENT ELECTRIC SHOCK AND DEATH

FROM INCORRECT GROUNDING WIRE CONNECTION:

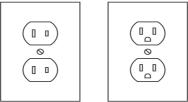
Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the Char-





ger. Do not use the Charger 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.

Double Insulated Tools: Tools with Two Prong Plugs



Outlets for 2-Prong Plug

- 1. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code.
- 2. Double insulated tools may be used in either of the 120-volt outlets shown in the preceding illustration.

(See Outlets for 2-Prong Plug.)

Extension Cords

Note: Extension cords must not be used with this item's Charger.

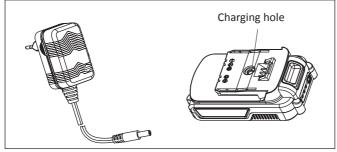


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Charging Procedure

IMPORTANT: The battery pack is not fully charged at the factory. Before attempting to charge them, thoroughly read all of the safety instructions.

- (1) To assure that the charger you use are applicable to the battery pack.
- (2) Plug the charger plug into the charging hole of the battery pack.
- (3) Plug the charger into any suitable standard outlet.
- (4) Let the battery pack charge initially until the green light illuminates. If all power lights are on, the battery pack is fully charged.



Recharge discharged batteries as soon as possible after use or battery life may be greatly diminished. For longest battery life, do not discharge batteries fully.

It is recommended that the batteries be recharged after each use.

WARNING: Fire Hazard. When unplug the output plug from the charging hole, be sure to unplug the charger from the outlet first, then disconnect the charger output plug from the charging hole.

Important Charging Notes

- 1. Your tool was sent from the factory in an uncharged condition. Before attempting to use it, it must be charged.
- 2. CAUTION: To reduce the risk of damage to the batteries, NEVER charge them in an air temperature below 40°F (4.5°C) or above 105°F (40.5°C). Also, NEVER charge them if the battery temperature is below 40°F (4.5°C) or above 105°F (40.5°C). Longest life and best performance occurs when batteries are charged with an air temperature of approximately

75°F (24°C). NOTE: The tool will not charge if the tool temperature is below approximately 32°F (0°C) or above 113°F (45°C).

- 3. While charging, the charger may hum and become warm to touch. This is a normal occurrence and does not indicate a problem.
- 4. If the batteries do not charge properly—(1) Check current at receptacle by plugging in a lamp or other appliance. (2) Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights. (3) Move charger and tool to a surrounding air temperature of 40°F (4.5°C) to 105°F (+40.5°C). (4) If the receptacle and temperature are OK, and you do not get proper charging, take or send the tool and charger to your local service center.
- 5. The tool should be recharged when it fails to produce sufficient power on jobs which were easily done previously. Battery life may be greatly diminished if batteries are discharged deeply. DO NOT CONTINUE using product with its batteries in a depleted condition. Recharge discharged batteries promptly.
- 6. To maximize battery life:
 - a. Do not fully discharge batteries.
 - b. Fully recharge batteries after each use.
 - c. Store tool in a location where the surrounding air temperature is approximately $40^{\circ}F-75^{\circ}F$ (4.5°C 24°C).
 - d. Disconnect charger from tool after charge is complete. WARNING: Fire Hazard. When disconnecting the charger from the tool, be sure to unplug the charger from the outlet first, then disconnect the charger cord from the tool.



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Safety Instructions



Application

This Circular saw is designed for sawing timber workpieces. It is designed for domestic use and is not designed for commercial, trade or industrial use.

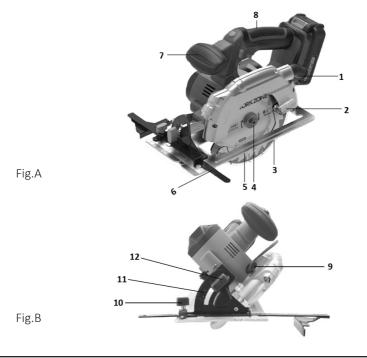


WARNING! Please read and understand this user manual before use and keep it for your future reference. Your power tool should only be passed on together with this instruction manual.



WARNING! To reduce risk of injury, only use Workzone battery pack. Other type of battery pack may burst causing personal injury and damage. The battery pack must be recharged only with the Workzone battery charger.

Parts List





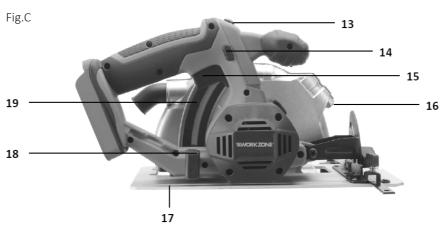
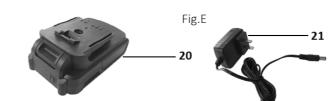


Fig.D



- Dust extraction port 1.
- 2. Lower guard lever
- 3. Lower guard
- 4. Blade clamp bolt
- Saw blade 5.
- 6. Guide bar
- 7. Auxiliary handle
- Main handle 8.
- Spindle lock button 9.
- 10. Guide bar knob
- 11. Miter angle scale

- 12. Miter angle adjustment knob
- 13. Laser on/off switch
- 14. Lock off button
- 15. Variable speed on/off trigger switch
- 16. Laser module
- 17. Base plate
- 18. Cutting depth adjustment knob
- 19. Cutting depth scale
- 20. Battery pack
- 21. Charger

Package List

1 x Circular saw	1 x Allen key
1 x 6 1/2 in. (165 mm) saw blade	1 x User manual
1 x Guide bar	1 x Warranty card
1 x Charger	1 x Battery pack

- Remove all packing materials.
- Ensure all parts on the contents list are present.
- Check the appliance, and all accessories for transportation damages.



WARNING! Packaging material are not toys! Children must not play with plastic bags! Danger of suffocation!



If any parts are missing or damaged, please contact our customer service center (Monday-Friday 8:30AM-5:00PM ET) at 1866 902 9690.

Technical Data

Model No.	55906
Rated voltage	20V d.c.
No load speed	4300 RPM
Max. cutting depth	2 1/16 in. (90°), 1 2/5 in. (45°)
Miter angle	0°- 45°
Max. speed of the saw blade	7000 RPM
Saw blade	φ6 1/2 in. X φ5/8 in. X 18 teeth
Battery pack	20V 1.5Ah Lithium-Ion

Assembly



WARNING! Remove the battery pack before assembly. The tool should not use any abrasive wheels. Gloves must be weared to avoid injury risk

1 Attaching the saw blade (Fig. F)

- a) Raise the lower guard.
- b) Slip the blade in position.
- c) Insert the outer flange and blade clamp bolt.
- Pressing down the spindle lock button and tighten the blade clamp bolt in an anti-clockwise direction with the allen key provided.
- e) Remove the allen key.

2 Removing the saw blade (Fig. G)

- a) Press the spindle lock button (9).Turn the blade clamp bolt(4) using the provided allen key in an anticlockwise direction.
- b) Remove the tensioning flange from the shaft.
- c) Open the lower guard with lower guard lever (2) fully.
- d) Remove the saw blade (5).

3 Adjusting the cutting depth (Fig. H)

- a) Loosen the cutting depth adjustment knob.
- b) Hold the base plate against the edge of the workpiece and lift the saw to the desired cutting depth.
- c) Tighten the cutting depth adjustment knob.

4 Setting the miter angle (Fig. I)

- a) Loosen the miter angle adjustment knob.
- b) Adjust the miter angle of your cut.
- c) Tighten the miter angle adjustment knob.

5 Mounting the guide bar (Fig. I)

a) Loosen the guide bar knob.











- b) Slide the guide bar through the slots in the base plate to the desired width.
- c) Tighten the guide bar knob.

Operation

1 Insert and remove the battery pack



WARNING: Before inserting or removing the circular saw's battery, make sure the appliance is switched off.

- a) To insert the battery pack, align the battery pack with the circular saw base and slide the battery pack into the circular saw, so that the battery pack is locked in position.
- b) To remove the battery pack, press the battery's release button and pull the battery pack off at the same time.

2 General cutting

- a) Check and make sure the workpiece is held securely.
- b) Press the lock off button and the variable speed on/off trigger switch to turn on the circular saw.
- c) Put the base plate against the workpiece.
- d) Hold the circular saw with both hands.
- e) When the saw blade reaches full speed, cut the workpiece slowly.
- f) Release the variable speed on/off trigger switch to turn off the circular saw.

3 Laser beam



WARNING: Do not stare directly at the LED worklight's light beam. Never aim the beam at any person or animal other than the workpiece.

- a) Mark the cutting line on the workpiece.
- b) Adjust the cutting angle and cutting depth as needed.
- c) Put the circular saw on the workpiece.
- d) Press the laser switch to turn on the laser module.
- e) Align the laser beam with the mark on the workpiece.
- f) Turn on the circular saw and cut the workpiece slowly. Keep the laser beam on the cutting line.
- g) Turn off the laser beam after cutting.





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Cordless Circular Saw · 20v Lithium-Ion Battery Cleaning, maintenance and storage

4 Dust extraction

A vacuum cleaner can be connected to the dust extraction port to collect the saw dust either directly or using an adaptor.

Cleaning, maintenance and storage

1 Cleaning

- a) Keep the ventilation slots free from dust and dirt to prevent overheating
- b) Regularly clean the circular saw's housing with a soft cloth, preferably after each use. If the dirt does not come off, use a soft cloth moistened with soapy water.
- c) Never use solvents such as gasoline, alcohol, ammonia water etc. These solvents may damage the plastic parts.

2 Maintenance

- The circular saw has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper care and regular cleaning.
- b) The circular saw shall only be repaired by an authorized service center.

3 Storage

- a) Thoroughly clean the circular saw and its accessories before storage.
- b) Store the circular saw out of the reach of children in a stable and secure place.

Disposal



Dispose appliances according to the regulations and requirements of your local council. If appliances are disposed in landfills or dumps, hazardous substances may leak into the ground water and get into the food chain, damaging your health and well-being.



Troubleshooting

Problem	Possible causes	Possible solutions
	Battery pack not installed properly	Remove and insert the battery pack again
Cannot start	Battery not charged	Charge the battery
	Internal damage or wear e.g. motor is damaged	Repair by an authorized service center
Con only num clause	Battery is not charged	Charge the battery
Can only run slowly	Battery wears out	Replace the battery with a new one
Cannot cut efficiently	Saw blade is blunt	Change the saw blade
Noisy or rattling	Internal damage or wear	Repair by an authorized service center
	Ventilation vents blocked	Clean the dust from the ventilation vents
Overheat	Saw blade is blunt	Change the saw blade
	The circular saw is running for too long	Turn off the circular saw and let it cools down



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