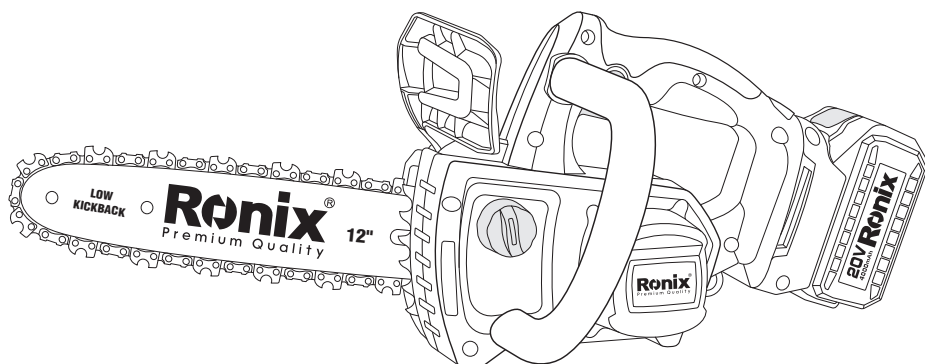




## **CORDLESS BRUSHLESS CHAIN SAW 12"**

### **8656**

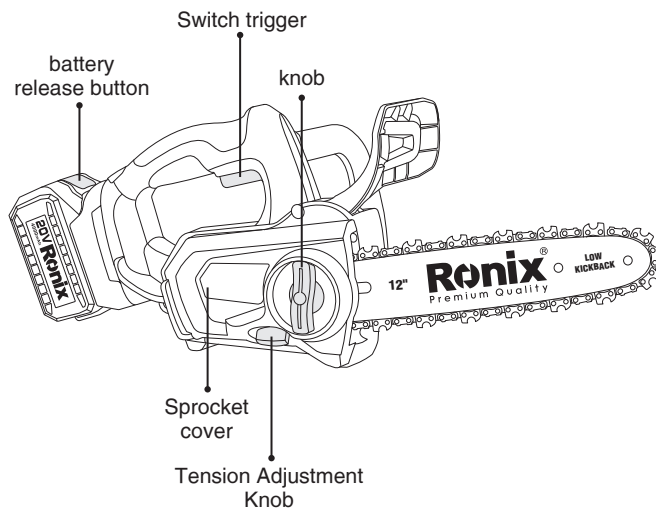
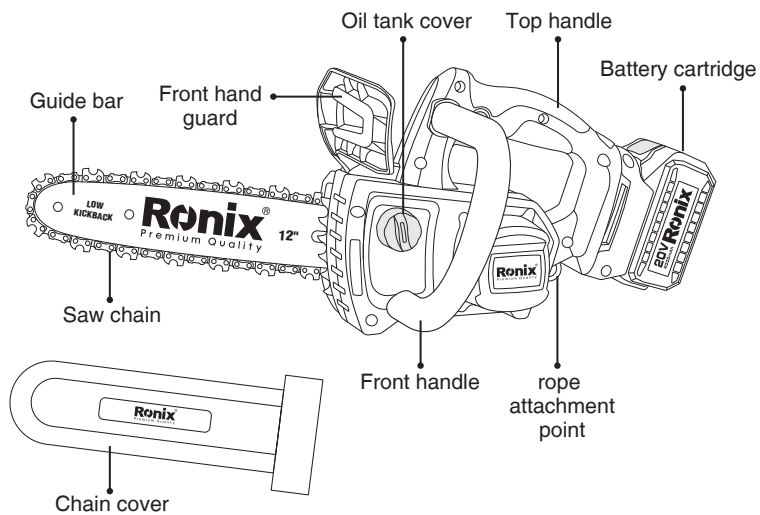




## SPECIFICATIONS

Model	8656
Voltage	20V
Battery Type	Lithium-ion
Battery Capacity	4.0Ah
Maximum Cutting Diameter	270mm
Chain Size	12"
Chain Bar Length	350mm
No-load Speed	3850RPM
Chain Speed	7m/s
Oil Tank Capacity	110ml
Run Time	Full-load:20 min
Cuts per Battery Charge (Cutting diameter 110mm)	71pcs
Charging Time	60min
Wiegth	2.3Kgs
Include	1pc Battery 4 AH 1pc charger 4A 1pc 12" guide bar 1pc 12" saw chain 1pc chain cover

## PART LIST



## INTENDED USE

This section deals with the basic safety regulations for working with the device.

A woodcutter is a dangerous device that can cause serious or even fatal injuries if used incorrectly or negligently. Therefore, for your safety and the safety of others, always observe the following safety instructions:

## SYMBOLS IN THE OPERATING INSTRUCTIONS

Various symbols are used in the operating instructions. They refer to potential dangers or point to technical information, the non-observance of which will lead to personal injury, damage to objects or inefficient operation.



Danger sign with information about the prevention of personal injury or damage to property



Note signs with information on how to better use the device



Wear cut-resistant gloves.

## ICONS ON THE DEVICE



Before you start working with the cordless wood cutter, familiarize yourself well with all of the controls.



Read and follow the operating instructions for the machine!



Wear protective glasses.



Be careful of the chainsaw kickback and avoid touching the tip of the guide bar.



wearing earplugs.



wear a hard hat.



Wear safety shoes.



Please stay away from others.



Remove the battery before servicing.



Do not expose the device to rain.



Danger from lacerations! Keep your hands away.



Sword length.



Oil the saw chain.



Note the running direction of the saw chain. Caution! Read the operating instructions.



lock

loose



Turn indicator

## GENERAL POWER TOOL SAFETY WARNINGS

### **WARNING!**

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and serious injury.

## **SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE**

- The term “power tool” in the warnings refers to your mains-operated (corded) power tools or battery-operated (cordless) power tools.

## **WORK AREA SAFETY**

- Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- Don't 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.

## **ELECTRIC SAFETY**

- Power tool plugs must match the outlet. Never modify the plug in any way. Don't use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the 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.
- Don't expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

- Don't abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increased the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Using a cord suitable for outdoor use will reduce the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. The use of an RCD reduces the risk of electric shock.
- The use of a power supply via an RCD with a rated residual current of 30mA or less is always recommended.

## **PERSONAL SAFETY**

- Stay alert, watch what you are doing, and use common sense when operating a power tool. Don't 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 dust masks, non-skid safety shoes, hard hats, 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 a 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.
- Don't overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Don't 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 connection of dust extraction, and collection facilities, ensure these are connected and properly used. The use of dust collection can reduce dust-related hazards.

## **BATTERY TOOL USE AND CARE**

- Recharge only with the charger specified by the Ronix. 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 by Ronix. Use of any other battery packs may create a risk of injury and fire.

- When the 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 the eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

## **POWER TOOL USE AND CARE**

- Don't 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.

- Don't use the power tool if the switch doesn't turn 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 don't 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 tool bits, etc. to the instruction, 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.

## **SERVICE**

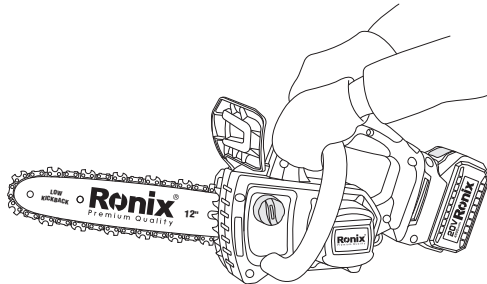
- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- Follow instructions for lubricating and changing accessories.
- Keep handles dry, clean, and free from oil and grease.

## **CORDLESS CHAIN SAW SAFETY WARNINGS**

- Keep all parts of the body away from the saw chain when the chain saw is operating. Before you start the chain saw, make sure the saw chain is not contacting anything. A moment of inattention while operating chain saws may cause entanglement of your clothing or body with the saw chain.
- Wear safety glasses and hearing protection. Further protective equipment for the head, hands, legs, and feet is recommended. Adequate

protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.

- Do not operate a chainsaw in a tree. Operation of a chainsaw while up in a tree may result in personal injury.
- Carry the chain saw by the front handle with the chain saw switched off and away from your body. When transporting or storing the chain saw always fit the guide bar cover.
- Follow instructions for lubricating, chain tensioning, and changing accessories. An improperly tensioned or lubricated chain may either break or increase the chance of kickback.
- Cut wood only. Do not use a chain saw for purposes not intended. For example: do not use a chain saw for cutting plastic, masonry, or non-wood building materials.
- Keep handles dry, clean, and free from oil and grease. Greasy, oily handles are slippery causing loss of control.



- Maintain a firm grip, with thumbs and fingers encircling the chain saw handles, with both hands on the saw, position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chainsaw.
- Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chain saw in unexpected situations.
- Follow the manufacturer's sharpening and maintenance instructions

for the saw chain.

## **FUNCTIONAL DESCRIPTION**

### **■ BATTERY**

- The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before. When charging the battery for the first time, or after prolonged storage, it will only accept an 80% charge. After several charge and discharge cycles, the battery will attain full capacity. The battery may become warm while charging, this is normal and does not indicate a problem.
- Remove it from the tool and insert it into the charge station. The battery pack will only fit into the charge in one way. Do not force. Be sure that the battery is fully seated in the charger.

### **■ LOW BATTERY VOLTAGE**

The remaining battery capacity is too low and the tool will not operate. In this situation, remove and recharge the battery.

## **IMPORTANT CHARGING NOTES**

- 1- Allow the battery to cool down before charging after using the saw. (NOTE: A hot battery placed in the charger will not charge.)
- 2- DO NOT charge the battery pack in an air temperature below 40°F (4 °C) or above 104°F (40 °C). This is important and will prevent serious damage to the battery pack. The longest life and best performance can be obtained if the battery pack is charged when the air temperature is about 75°F (24°C).
- 3- While charging, the charger may hum and become warm to the touch. This is a normal condition and does not indicate a problem.
- 4- If the battery pack does not charge properly:
  - Check the current at the receptacle by plugging in a lamp or other appliance.

- Check to see if a receptacle is connected to a light switch which turns the power off when you turn out the lights.
  - If the Power outlet is OK, and you do not get proper charging contact the Ronix service center.
- 5- To prolong battery life, avoid leaving the battery pack on the charger for extended periods (over 30 days without use)., it can significantly reduce overall battery life.

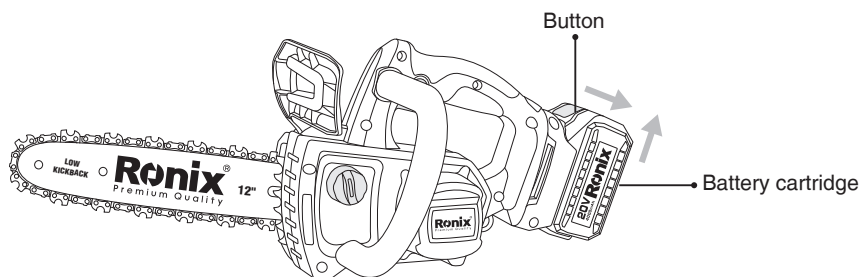
## CHAIN SAW FUNCTIONS

### **WARNING!**

Cutting edges on the chain are sharp. Use protective gloves when handling the chain.

### **■ REMOVE THE BATTERY FROM THE CHAINSAW.**

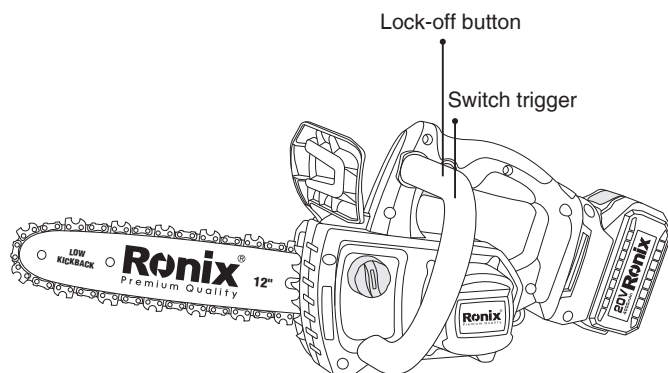
To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge. To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it until it locks in place with a little click.



### **■ SWITCH ACTION**

To prevent the switch trigger from being accidentally pulled, a lock-off button is provided.

To start the tool, depress the lock-off button and pull the switch trigger. Release the switch trigger to stop the tool.

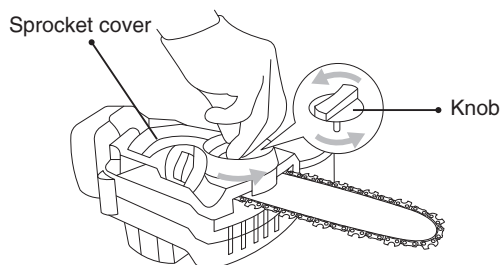


## ASSEMBLY

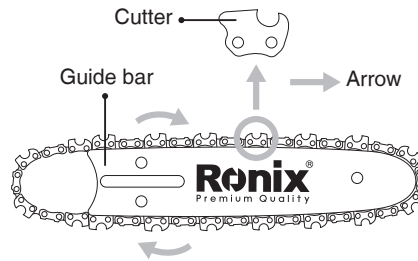
### **WARNING!**

Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

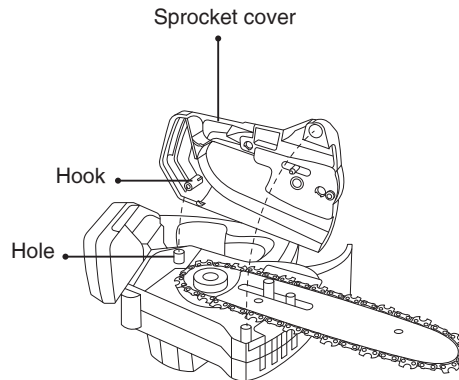
## ■ INSTALLING OR REMOVING SAW CHAIN



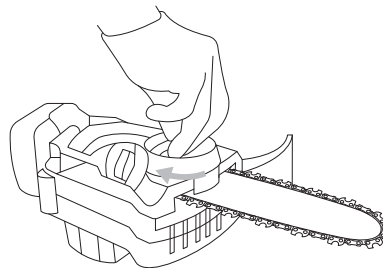
Loosen the screw by turning counterclockwise the knob until the sprocket cover comes off. Remove the sprocket cover. Remove the saw chain and guide bar from the tool.



Fit in one end of the saw chain on the top of the guide bar. At this time, fit the saw chain as shown in the figure because it rotates in the direction of the arrow.



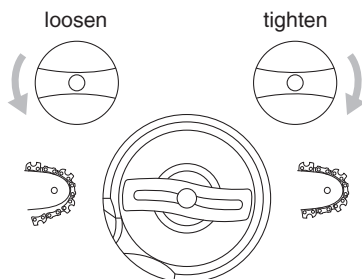
Insert the hook of the sprocket cover into the hole in the tool and then place the sprocket cover on the tool.



Turn the knob clockwise to tighten the screw firmly.

## ADJUSTING SAW CHAIN TENSION

Just a slight loosening of the screw allows the saw chain tension to be adjusted. After adjusting, tighten the screw firmly.



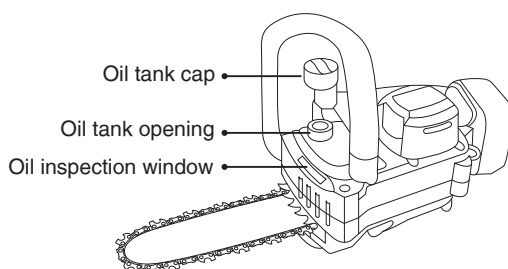
## OPERATION

### ■ LUBRICATION

The Saw chain is automatically lubricated when the tool is in operation. Check the amount of remaining oil in the oil tank periodically. Check the amount of remaining oil in the oil tank through the oil inspection window.

To refill the tank, remove the cap from the oil tank opening.

After refilling the tank, always screw the provided oil tank cap on the chain saw.



### **WARNING!**

Never use oil including dust and particles or volatile oil.



**! WARNING!**

Before cutting out, make sure that the provided oil tank cap is screwed in place.

Hold the chainsaw away from the tree. Start it and wait until lubrication on the saw chain is adequate.

## PRUNING TREES

**! WARNING!**

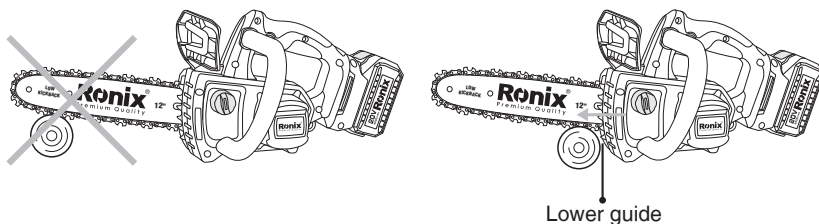
Keep all parts of the body away from the saw chain when the motor is operating.

**! WARNING!**

Hold the chain saw firmly with both hands when the motor is running.

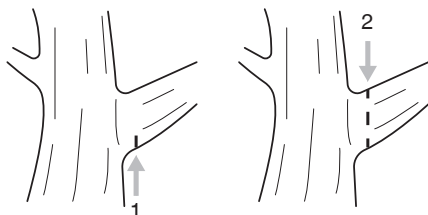
**! WARNING!**

Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet.

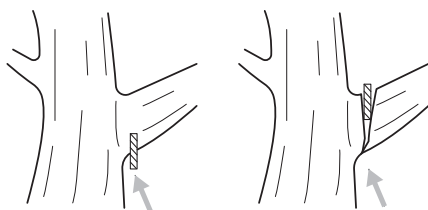


Bring the lower guide into contact with the branch to be cut before switching it on. Cutting without bringing the lower guide into contact with the branch may cause the guide bar to wobble, resulting in injury to the operator.

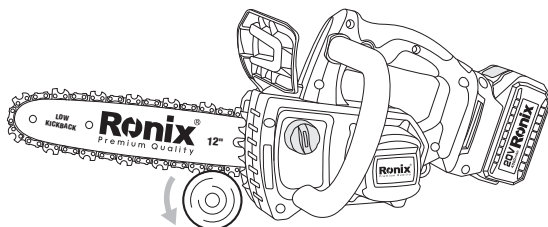
When cutting thick branches, first make a shallow undercut and then make the finish cut from the top.



If you try to cut off thick branches from the bottom, the branch may close in and pinch the saw chain in the cut. If you try to cut off thick branches from the top without a shallow undercut, the branch may splinter.

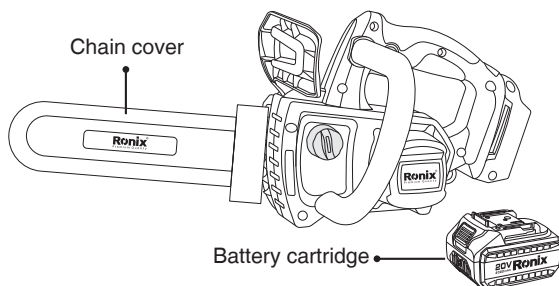


For better cutting use the lower guide of the chainsaw.



## CARRYING TOOL

Always remove the battery cartridge from the tool and overlap the guide bar with the scabbard before carrying the tool. Also, cover the battery cartridge with the battery cover.



## SAW CHAIN TENSION

### **! WARNING!**

Remove the battery from the chain saw before servicing. Severe injury or death could occur from body contact with a moving chain.

### **! WARNING!**

Cutting edges on the chain are sharp. Use protective gloves when handling chains.

### **! WARNING!**

When cleaning the saw body:

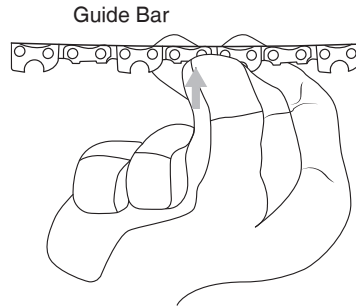
- do not submerge the saw in any liquids.
- do not use products that contain ammonia, chlorine, or abrasives
- do not use chlorinated cleaning solvents, carbon tetrachloride, kerosene, or gasoline

### **! NOTE:**

The saw chain tension is properly set at the factory. A new chain will stretch. Check new chain tension frequently (after disconnecting the battery) during the first 2 hours of operation. Allow the chain to cool down. Follow the steps below to check saw chain tension.)

- 1- Remove the battery from the chain saw.
- 2- Place the chain saw on a firm surface to check chain tension.

3- Pull the chain with light force away from the bottom of the guide bar and release. If the chain lightly snaps back into place, the tension is correct.



## **CUTTING WITH THE CHAINSAW**

- 1- Check that the battery of the chain saw is fully charged.
- 2- Attach the battery to the saw.
- 3- Use both hands to grip the chainsaw. Use designated grip areas. Use a firm grip.
- 4- Make sure your footing is firm. Keep feet apart. Divide your weight evenly on both feet.
- 5- When ready to make a cut, press in trigger lockout and squeeze the trigger. This will turn the chainsaw on. Releasing the trigger will turn the chain saw off.
- 6- Remove the chain saw from a cut with the saw running. at full speed.

## **CLEANING AND MAINTENANCE**

### **■CLEANING SAW BODY**

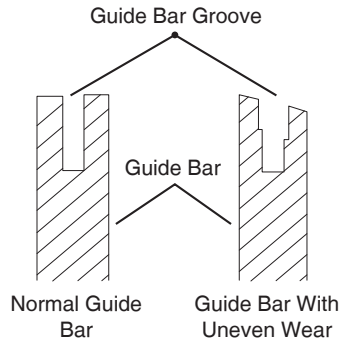
Keep saw body clean. Use a soft cloth dampened with a mild soap and water mixture. Wipe saw body to clean.

### **■CARE OF GUIDE BAR**

Uneven bar wear causes most guide bar problems. Incorrect sharpening of chain cutter and depth gauge settings often causes this. When the

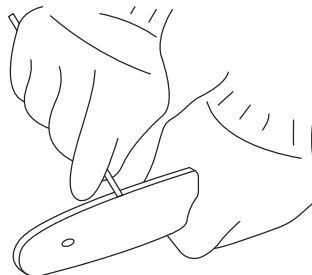
bar wears unevenly, it widens the guide bar groove. This causes chain clatter and rivet popping. Saw will not cut straight. Replace the guide bar if this occurs.

Inspect the guide bar before sharpening the chain. A worn or damaged guide bar is unsafe. A worn or damaged guide bar will damage the chain. It will also make cutting harder.



## NORMAL GUIDE BAR MAINTENANCE

- 1- Remove the guide bar from the chainsaw.
  - 2- Remove sawdust from the guide bar groove periodically. Use a putty knife or wire.
  - 3- Clean oil slots after each day of use.
  - 4- Remove burrs from the sides of the guide bar. Use a flat file to make the side edges square.
- Replace guide bar when:
- bar is bent or cracked.
  - inside groove of the bar is badly worn.



## SHARPENING THE SAW CHAIN

### **WARNING!**

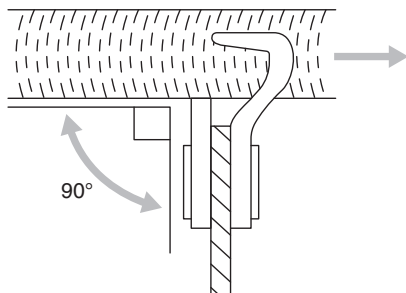
- Always remove the battery cartridge and wear safety gloves when performing work on the saw chain.

## SHARPEN THE SAW CHAIN WHEN:

- Mealy sawdust is produced when damp wood is cut;
- The chain penetrates the wood with difficulty, even when heavy pressure is applied;
- The cutting edge is damaged;
- The saw pulls to the left or right in the wood. The reason for this behavior is the uneven sharpening of the saw chain or damage to one side only.

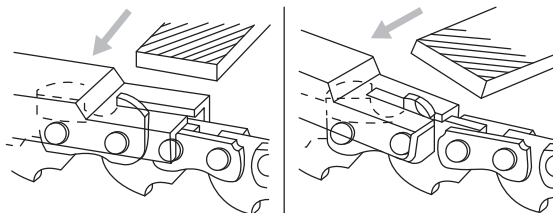
## FILE AND FILE GUIDING

Use a special round file for saw chains, with a diameter of 4mm, to sharpen the chain. Normal round files are not suitable.



- The file should only engage the material on the forward stroke. Lift the file of the material on the return stroke.
- Sharpen the shortest cutter first. The length of this cutter is then the gauge dimension for all other cutters on the saw chain.

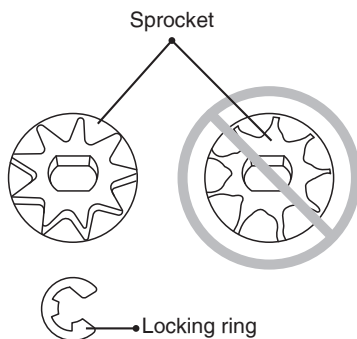
- Guide the file as shown in the figure.
- The file can be guided more easily if a file holder (accessory) is employed. The file holder has markings for the correct sharpening angle of 30°.



- Remove any projecting material, however small, with a special flat file.

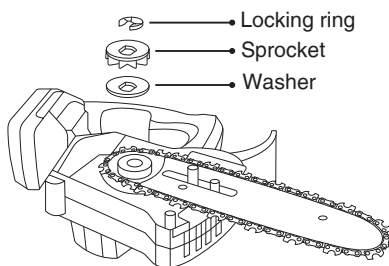
## REPLACING THE SPROCKET

Before fitting a new saw chain, check the condition of the sprocket.



### **! WARNING!**

A worn sprocket will damage a new saw chain. Has the sprocket been replaced in this case? The sprocket needs to be installed so that it always faces as shown in the figure.



Always fit a new locking ring when replacing the sprocket.

## STORAGE & MAINTENANCE

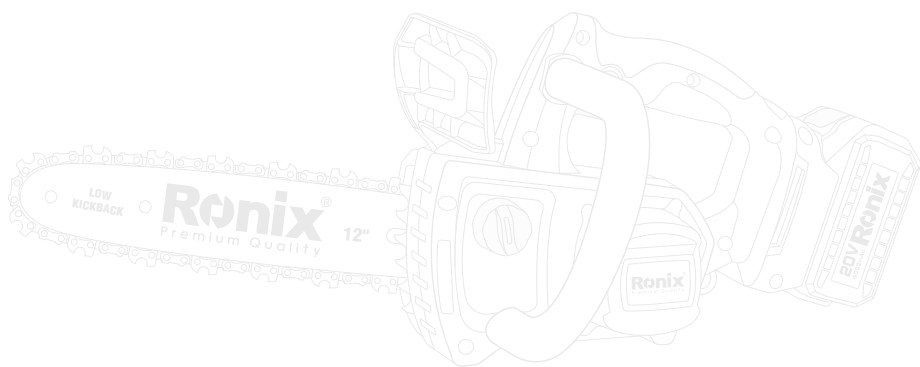
Store the device and its accessories in a dark, dry, and frost-proof place that is inaccessible to children. The optimum storage temperature is between 5 and 30°C.

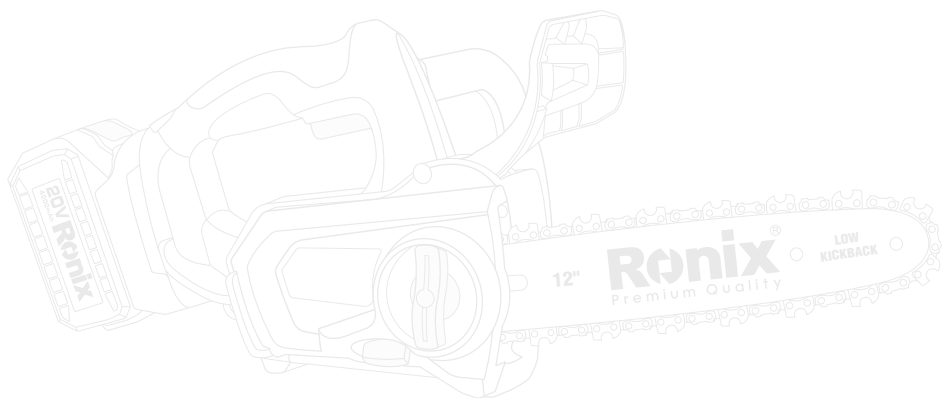
Store the electrical tool in its original packaging.

Cover the electrical tool to protect it from dust and moisture.

Store the operating manual with the electrical tool.





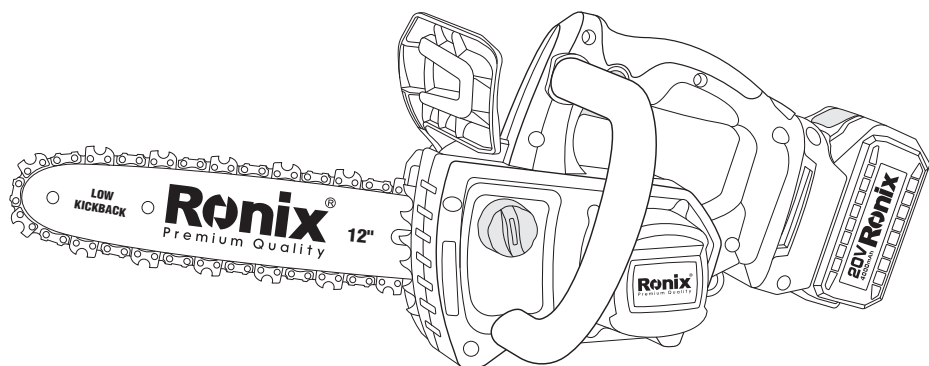




# Ronix<sup>®</sup>

Premium Quality

## **CORDLESS BRUSHLESS CHAIN SAW 12"** **8656**



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