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User manual



Cordless Chain Saw

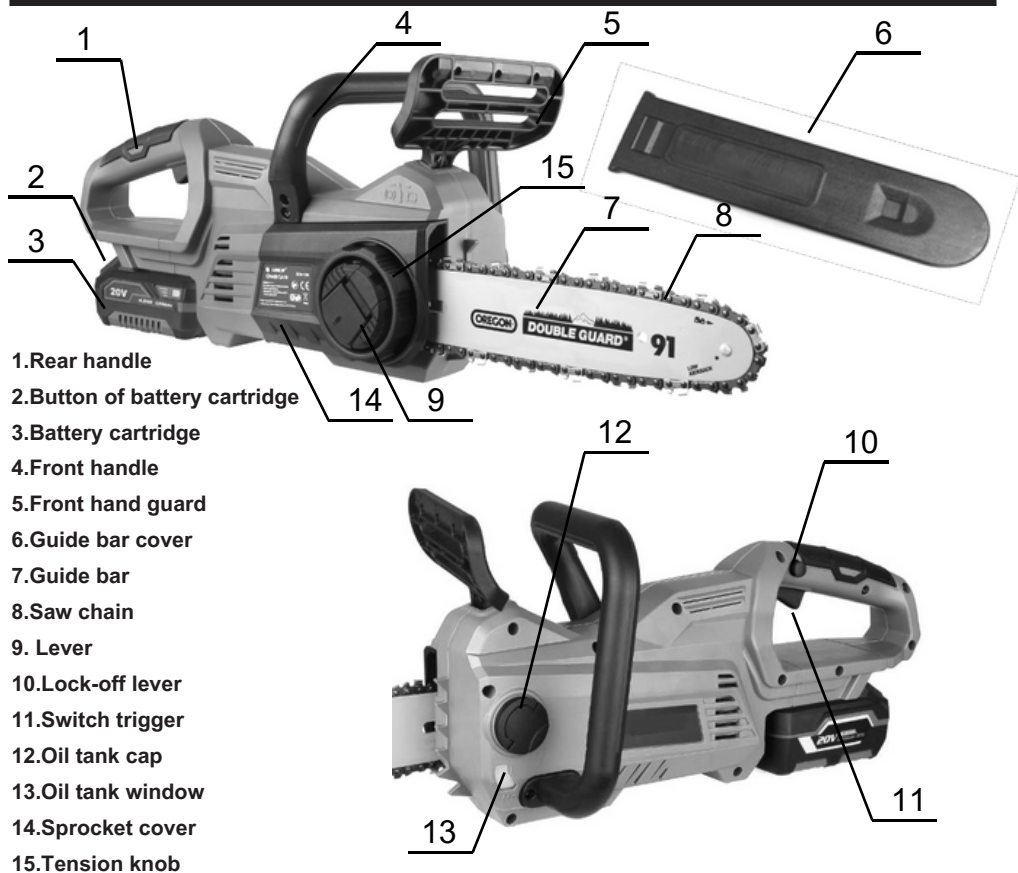
MODEL NUMBER:
SERIAL NUMBER:

☐ CEDCHS250Li

Model number and serial number should be on nameplate.
You should write them down and store in a safe place.



IDENTIFICATION



SPECIFICATIONS

| | | |
|---|-----------------|----------------------------|
| Model: | | CEDCHS250Li |
| Overall length (Bare tool with guide bar) | | 660 mm |
| Rated voltage | | D.C. 20 V |
| Net weight (Bare tool) | | 3.14 kg |
| Cutting length | | 250 mm |
| Guide bar | Type | Sprocket nose bar (Oregon) |
| | Standard length | 250 mm (10") |
| | Gauge | 1.3 mm |
| Applicable saw chain type | | 91P |
| Sprocket Pitch | | 3/8" |
| Number of drive links | | 40 |
| Chain speed | | 6 m/s |
| Chain oil tank volume | | 160 ml |

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications may differ from country to country.
- The weight may differ depending on the attachment(s), including the battery cartridge.

Applicable battery cartridge and charger

| | |
|-------------------|---|
| battery cartridge | CEDLi-Ion 2Ah, CEDLi-Ion 4Ah, CEDLi-Ion 6Ah |
| battery charger | CEDFCH2.4, CEDDCH3.0, CEDFCH3.5 |

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

⚠ WARNING: Only use the battery cartridges and chargers listed above. Use of any other battery cartridge and chargers may cause injury and/or fire.

⚠ WARNING: Use appropriate combination of the guide bar and saw chain. Otherwise personal injury may result.

Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.

| | |
|--|---|
| | Read instruction manual. |
| | Wear safety glasses. |
| | Wear ear protection. |
| | Wear a helmet, goggles and ear protection. |
| | Use appropriate protection for foot-leg and hand-arm. |
| | Do not expose to moisture. |
| | Maximum permissible cut length |

| | |
|--|---|
| | Direction of chain travel |
| | Saw chain oil adjustment |
| | Only for EU countries Do not dispose of electric equipment or battery pack together with household waste material! In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. |

Intended use

This chain saw is intended for sawing wood.

Noise

The typical A-weighted noise level determined according to EN60745-2-13:

Model CEDCHS250Li

Sound pressure level (LpA) : 90.4 dB(A) Sound power level (LWA) : 99.4 dB(A)
Uncertainty (K) : 3 dB(A)

NOTE: The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE: The declared noise emission value(s) may also be used in a preliminary assessment of exposure.

⚠ WARNING: Wear ear protection.

⚠ WARNING: The noise emission during actual use of the power tool can differ from the declared value(s) depending on the ways in which the tool is used especially what kind of workpiece is processed.

⚠ WARNING: Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745-2-13:

Model CEDCHS250Li

Work mode: cutting wood

Vibration emission (ah,W) : 6.4 m/s²

Uncertainty (K) : 1.5 m/s²

NOTE: The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.

NOTE: The declared vibration emission value may also be used in a preliminary assessment of exposure.

⚠ WARNING: The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.

⚠ WARNING: Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

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

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **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.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical Safety

1. **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.
2. **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.
3. **Do not expose power tools to rain or wet conditions.** The risk of electric shock, if water enters a power tool will increase.
4. **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.
5. **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.
6. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
7. **Power tools can produce electromagnetic fields (EMF) that are not harmful to the user.** However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

Personal Safety

1. **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.
2. **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.
3. **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 energising power tools that have the switch on invites accidents.
4. **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.

5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
7. **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.
8. **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.
9. **Always wear protective goggles to protect your eyes from injury when using power tools.** The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **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.
8. **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.
9. **When using the tool, do not wear cloth work gloves which may be entangled.** The entanglement of cloth work gloves in the moving parts may result in personal injury.



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

Power tool use and care

1. **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.
2. **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.
3. **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.
4. **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.
5. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, break-age 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.

Battery tool use and care

1. **Recharge only with the charger specified by the manufacturer.** A charge rate that is too slow or one type of battery pack may create a risk of fire when used with another battery pack.
2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **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.
4. **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.**
5. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or modified batteries.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
7. **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

1. **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.
2. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. **Follow the instruction for lubricating and changing accessories.**

Cordless Chain saw safety warnings

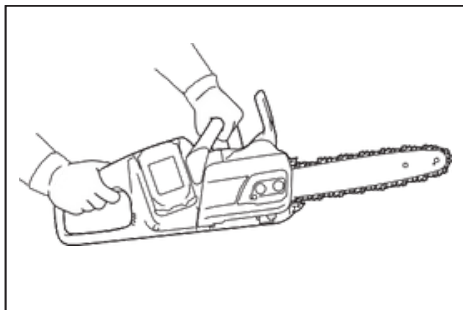
1. **Keep all parts of the body away from the saw chain when the chain saw is operating. Before you start the chain saw, make sure the saw chain is not contacting anything.** A moment of inattention while operating chain saws may cause entanglement of your clothing or body with the saw chain.
2. **Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle.** Holding the chain saw with a reversed hand configuration increases the risk of personal injury and should never be done.
3. **Hold the power tool by insulated gripping surfaces only, because the saw chain may contact hidden wiring.** Saw chains contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. **Wear safety glasses and hearing protection.** Further protective equipment for head, hands, legs and feet is recommended. Adequate protective clothing will reduce personal injury by flying debris or accidental contact with the saw chain.
5. **Do not operate a chain saw in a tree.** Operation of a chain saw while up in a tree may result in personal injury.
6. **Always keep proper footing and operate the chain saw only when standing on fixed, secure and level surface.** Slippery or unstable surface a loss of balance or control of the chain saw.
7. **When cutting a limb that is under tension be alert for spring back.** When the tension in the wood fibres is released the spring loaded limb may strike the operator and/or throw the chain saw out of control.
8. **Use extreme caution when cutting brush and saplings.** The slender material may catch the saw chain and be whipped toward you or pull you off balance.
9. **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. Proper handling of the chain saw will reduce the likelihood of accidental contact with the moving saw chain.

10. **Follow instructions for lubricating, chain tensioning and changing accessories.** Improperly tensioned or lubricated chain may either break or increase the chance for kickback.
11. **Keep handles dry, clean, and free from oil and grease.** Greasy, oily handles are slippery causing loss of control.

12. **Cut wood only. Do not use chain saw for purposes not intended. For example: do not use chain saw for cutting plastic, masonry or non-wood building materials.** Use of the chain saw for operations different than intended could result in a hazardous situation.

13. **Causes and operator prevention of kickback:** Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury. Kickback is the result of tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:
 - **Maintain a firm grip, with thumbs and fingers encircling the chain saw handles, with both hands on the saw and position your body and arm to allow you to resist** Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chain saw.



- **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.
 - **Only use replacement bars and chains specified by the manufacturer.** Incorrect replacement bars and chains may cause chain breakage and/or kickback.
 - **Follow the manufacturer's sharpening and maintenance instructions for the saw chain.** Decreasing the depth gauge height can lead to increased kickback.
14. **Before starting work, check that the chain saw is in proper working order and that its condition complies with the safety regulations. Check in particular that:**
 - The chain brake is working properly; The
 - run-down brake is working properly; The
 - bar and the sprocket cover are fitted correctly;
 - The chain has been sharpened and tensioned in accordance with the regulations.

15. **Do not start the chain saw with the chain cover being installed on it.** Starting the chain saw with the chain cover being installed on it may cause the chain cover to thrown out forward resulting in personal injury and damage to objects around the operator.
16. **Avoid dangerous environment. Don't use the tool in damp or wet locations or expose it to rain.** Water entering the tool will increase the risk of electric shock.
17. **Do not dispose of the battery(ies) in a fire.** The cell may explode. Check with local codes for possible special disposal instructions.
18. **Do not open or mutilate the battery(ies).** Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
19. **Do not charge battery in rain, or in wet locations.**

SAVE THESE INSTRUCTIONS.

WARNING: DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

Important safety instructions for battery cartridge

1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble battery cartridge.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge:
 - (1) Do not touch the terminals with any conductive material.
Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
 - (3) Do not expose battery cartridge to water or rain.

A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50 °C (122 °F).
7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
8. Be careful not to drop or strike battery.
9. Do not use a damaged battery.
10. The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.

For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed.
For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations.
Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.

11. **Follow your local regulations relating to disposal of battery.**
12. **Use the batteries only with the products specified by Cedrus.** Installing the batteries to! non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.

SAVE THESE INSTRUCTIONS.

CAUTION: Only use genuine Cedrus batteries. Use of non-genuine Cedrus batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Cedrus warranty for the Cedrus tool and charger.

Tips for maintaining maximum battery life

1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
3. Charge the battery cartridge with room temperature at 5 °C - 45 °C. Let a hot battery cartridge cool down before charging it.
4. Charge the battery cartridge if you do not use it for a long period (more than six months).

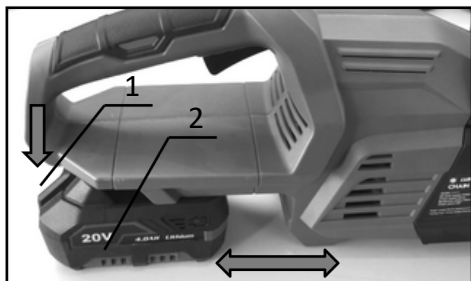
FUNCTIONAL DESCRIPTION

CAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

Installing or removing battery cartridge

CAUTION: Always switch off the tool before installing or removing of the battery cartridge.

CAUTION: Hold the tool and the battery cartridge firmly when installing or removing battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.



- 1. Button 2. Battery cartridge

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 all the way until it locks in place with a little click.

CAUTION: Always install the battery cartridge fully. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

CAUTION: Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

Tool / battery protection system

The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

Overload protection

When the battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops without any indication. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

Overheat protection

When the tool or battery is overheated, the tool stops automatically. In this situation, let the tool/battery cool before turning the tool on again.

Overdischarge protection

When the battery capacity becomes low, the tool stops automatically. If the product does not operate even when the switches are operated, remove the batteries from the tool and charge the batteries.

Indicating the remaining battery capacity



- 1. Indicator lamps 2. Check button

Press the check button on the battery cartridge to indicate the remaining battery capacity.

| Indicator lamps | | Remaining capacity |
|-----------------|-----|--------------------|
| Lighted | Off | |
| | | 75% to 100% |
| | | 25% to 50% |
| | | 10% to 25% |

NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

Switch action

equipped with lock-off lever which prevents the tool from unintended starting. NEVER use the tool if it runs when you simply pull the switch trigger without pressing the lock-off lever. Return the tool to our authorized service center for proper repairs BEFORE further usage.

WARNING: NEVER tape down or defeat purpose and function of lock-off lever.

CAUTION: Before installing the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

NOTICE: Do not pull the switch trigger hard without pressing the lock-off lever. This can cause switch breakage.

To prevent the switch trigger from being accidentally pulled, a lock-off lever is provided. To start the tool, depress the lock-off lever and pull the switch trigger, push the front hand guard backwards with your finger at the same time. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.



- 1. Front hand guard

Checking the run-down brake

CAUTION: If the saw chain does not stop within one second in this test, stop using the chainsaw and consult our authorized service

Run the chain saw then release the switch trigger completely. The saw chain must come to a standstill within one second.



- 1. Switch trigger 2. Lock-off lever 3. Front hand guard

ASSEMBLY

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

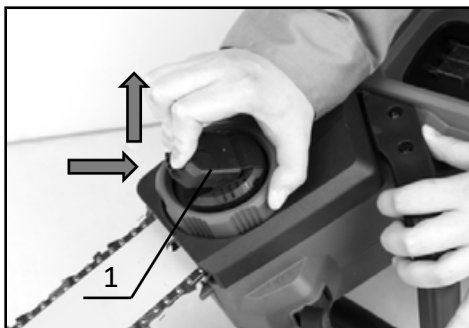
CAUTION: Do not touch the saw chain with bare hands. Always wear gloves when handling the saw chain.

Removing or installing saw chain

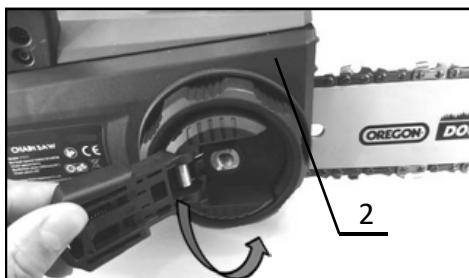
CAUTION: The saw chain and the guide bar are still hot just after the operation. Let them cool down enough before carrying out any work on the tool.

To remove the saw chain, perform the following steps:

1. Pull the lever up while pressing its edge.



2. Turn the lever anticlockwise until the sprocket cover comes off.



- 1. Lever 2. Sprocket cover

Checking the chain brake

CAUTION: Hold the chain saw with both hands when switching it on. Hold the rear handle with your right hand, the front handle with your left. The bar and the chain must not be in contact with any object.

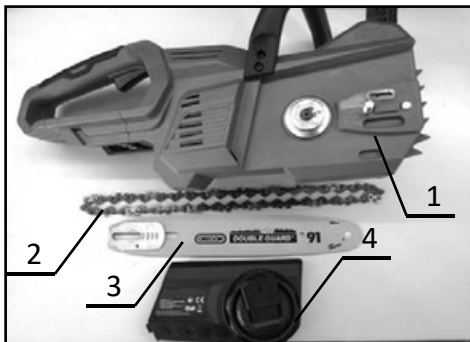
CAUTION: Should the saw chain not stop immediately when this test is performed, the saw may not be used under any circumstances. Consult our authorized service center.

1. Press the lock-off lever, then pull the switch trigger, push the front hand guard backwards with your finger at the same time. The saw chain starts immediately.

2. Push the front hand guard forwards with the back of your hand. Make sure that the chain saw comes to an immediate standstill.



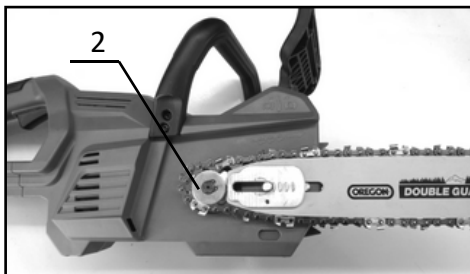
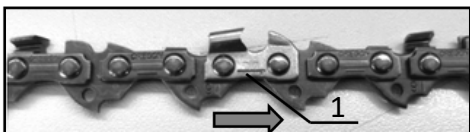
3. Remove the sprocket cover then remove the saw chain and guide bar from the chain saw body.



► 1. Chain saw body 2. Saw chain 3. Guide bar 4. Sprocket cover

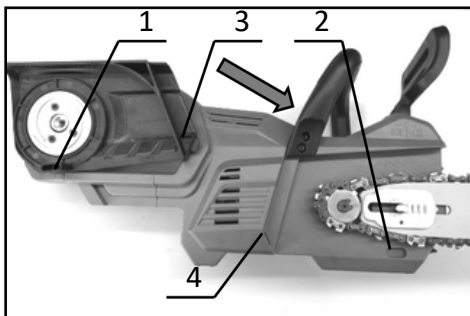
To install the saw chain, perform the following steps:

1. Make sure the direction of the chain. The arrow mark on the chain shows the direction of the chain.
2. Fit in one end of the saw chain on the top of the guide bar and the other end around the sprocket.
3. Rest the guide bar in original place on the chain saw.



► 1. Arrow mark 2. Sprocket

4. Place the sprocket cover on the chain saw, align the tongue on the sprocket cover with the groove in the housing and slip it into place while matching the log boss on the cover to the corresponding holes at the same time, as shown below.

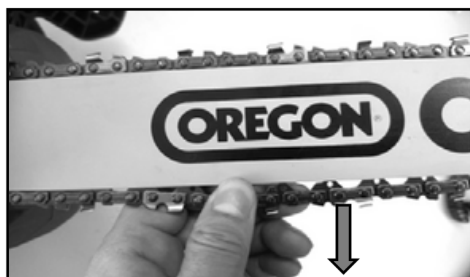
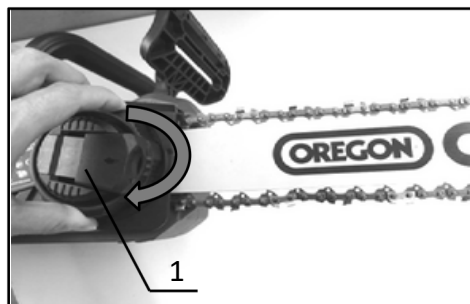


► 1. Log boss 1 2. Sprocket 3. Tongue 4. Groove

5. Depress the sprocket cover and lift backward or forward the guide bar a little bit until it locks in place with a little click.

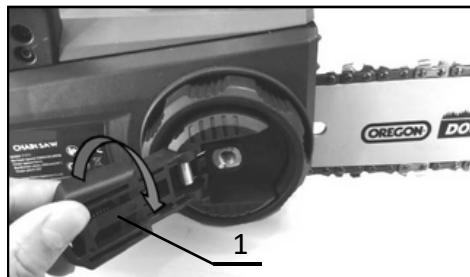


6. Turn the tension knob clockwise and check the chain tension; keep turning clockwise until of suitable tense. To check the suitable saw chain tension, pull the saw chain by the force of about 1kg, if there's distance 5-7mm between the saw chain and guide bar as shown in below, the tension is suitable.



► 1. Tension knob

7. Turn the lever clockwise until the sprocket cover is secured then return it to the original position.





► 1. Lever

Adjusting saw chain tension

⚠ CAUTION: Carry out the procedure of installing or removing saw chain in a clean place free from sawdust and the like.

⚠ CAUTION: Do not tighten the saw chain too much. Excessively high tension of saw chain may cause breakage of saw chain, wear of the guide bar and breakage of the adjusting dial.

⚠ CAUTION: A chain which is too loose can jump off the bar and it may cause an injury accident.

The saw chain may become loose after many hours of use. From time to time check the saw chain tension before use.

1. Pull the lever up while pressing its edge. Turn it counterclockwise a little bit to loosen sprocket cover lightly.



2. Turn the tension knob clockwise to tighten the saw chain until the lower side of the saw chain fits in the guide bar rail as illustrated.



3. Keep holding the guide bar lightly and turn the lever clockwise until the sprocket cover is secured.

4. Return the lever to the original position.

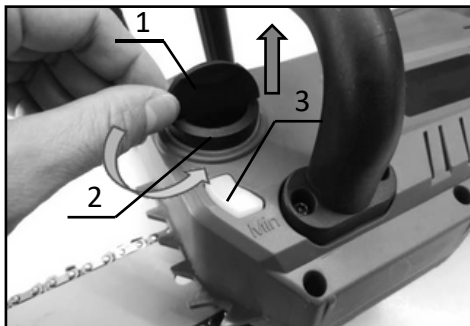


⚠ CAUTION: Make sure that the saw chain does not loosen at the lower side and the saw chain fits snugly against the lower side of the bar.

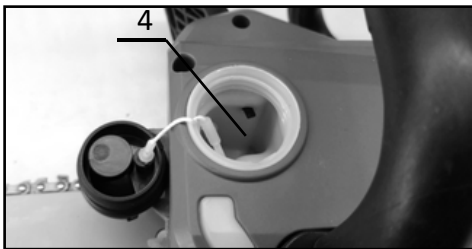
OPERATION

Lubrication

Saw chain is automatically lubricated when the tool is in operation. Check the amount of remaining oil in the oil tank periodically through the transparent oil tank window. To refill the tank, lay the chain saw on its side, pull up the lever and turn anticlockwise to remove the oil tank cap. The proper amount of oil is 160ml. After refilling the tank, make sure that the oil tank cap is tightened securely.



► 1. Lever 2. Oil tank cap 3. Oil tank window 4. Oil tank



After refilling, hold the chain saw away from the tree. Start it and wait until lubrication on saw chain is adequate.



NOTICE: When filling the chain oil for the first time, or refilling the tank after it has been completely emptied, add oil up to the bottom edge of the filler neck. The oil delivery may otherwise be impaired.

NOTICE: Use the saw chain oil exclusively for Cedrus chain saws or equivalent oil available in the market.

NOTICE: Never use oil including dust and particles or volatile oil.

NOTICE: When pruning trees, use botanical oil. Mineral oil may harm trees.

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

WORKING WITH THE CHAIN SAW

CAUTION: The first time user should, as a minimum practice, do cutting logs on a saw-horse or cradle.

CAUTION: When sawing pre-cut timber, use a safe support (saw horse or cradle). Do not steady the workpiece with your foot, and do not allow anyone else to hold or steady it.

CAUTION: Secure round pieces against rotation.

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

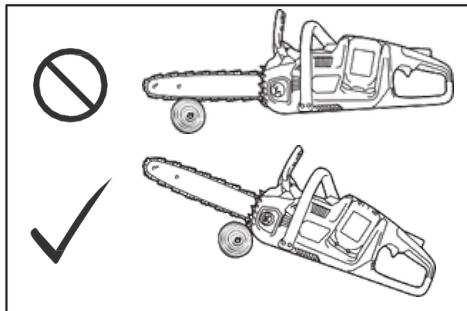
CAUTION: Hold the chain saw firmly with both hands when the motor is running.

CAUTION: Do not overreach. Keep proper footing and balance at all times.

NOTICE: Never toss or drop the tool.

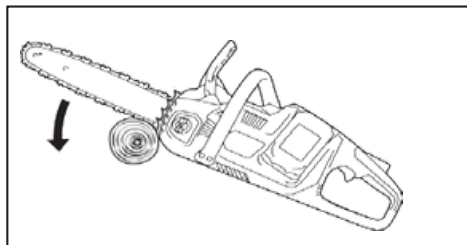
NOTICE: Do not cover the vents of the tool.

Bring the bottom edge of the chain saw body into contact with the branch to be cut before switching on. Otherwise it may cause the guide bar to wobble, resulting in injury to operator. Saw the wood to be cut by just moving it down by using the weight of the chain saw.



If you cannot cut the timber right through with a single stroke:

Apply light pressure to the handle and continue sawing and draw the chain saw back a little; then apply the spike bumper a little lower and finish the cut by raising the handle.

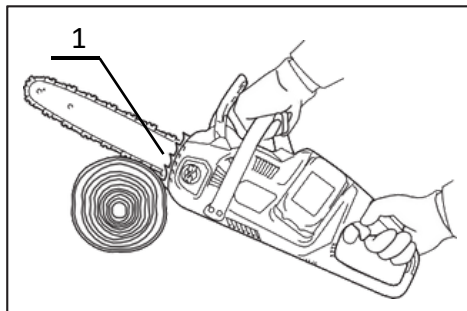


Bucking

1. Rest the bottom edge of the chain saw body on the wood to be cut.

2. With the saw chain running, saw into the wood while using the rear handle to raise the saw and the front one to guide it. Use the spike bumper as a pivot.

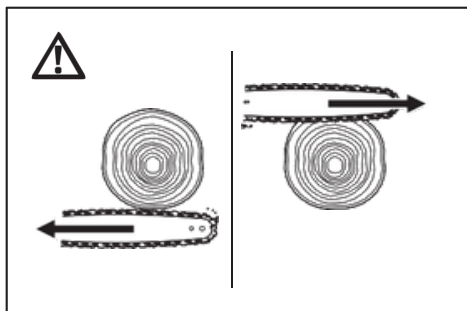
3. Continue the cut by applying slight pressure to the front handle, easing the saw back slightly. Move the spike bumper further down the timber and raise the front handle again.



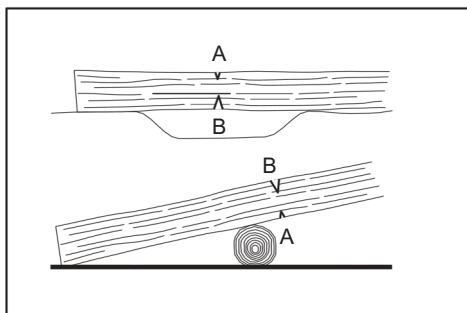
► 1. Spike bumper

NOTICE: When making several cuts, switch the chain saw off between cuts.

CAUTION: If the upper edge of the bar is used for cutting, the chain saw may be deflected in your direction if the chain becomes trapped. For this reason, cut with the lower edge, so that the saw will be deflected away from your body.



When you cut a wood under tension, cut the pressured side (A) first. Then make the final cut from the tensioned side (B). This prevents the bar from becoming trapped.



Limbing

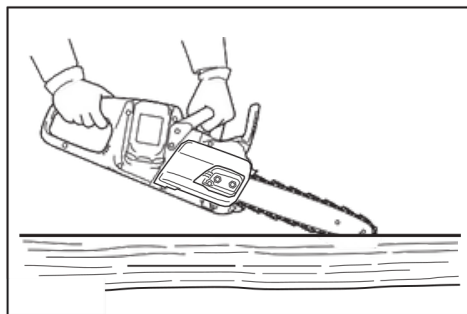
CAUTION: Limbing may only be performed by trained persons. A hazard is presented by the risk of kickback.

When limbing, support the chain saw on the trunk if possible. Do not cut with the tip of the bar, as this presents a risk of kickback. Pay particular attention to branches under tension. Do not cut unsupported branches from below. Do not stand on the felled trunk when limbing.

Burrowing and parallel-to-grain cuts

CAUTION: Burrowing and parallel-to-grain cuts may only be carried out by persons with special training. The possibility of kickback presents a risk of injury.

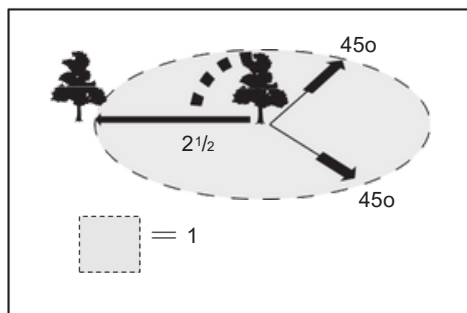
Perform parallel-to-grain cuts at as shallow an angle as possible. Take an extra caution when carrying out the cut as the spike bumper cannot be used.



Felling

CAUTION: Felling work may only be performed by trained persons. The work is hazardous.

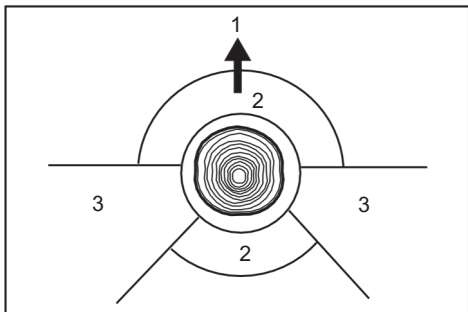
Observe local regulations if you wish to fell a tree.



► 1. Felling area

- Before starting felling work, ensure that:
 - Only persons involved in the felling operation are in the vicinity;
 - Any person involved has an unhindered path of retreat through a range of approximately 45° either side of the felling axis. Consider the additional risk of tripping over electrical cables;
 - The base of the trunk is free of foreign objects, roots and ranches;
 - No persons or objects are present over a distance of 2 1/2 tree lengths in the direction in which the tree will fall.
- Consider the following with respect to each tree:
 - Direction of lean;
 - Loose or dry branches;
 - Height of the tree;
 - Natural overhang;
 - Whether or not the tree is rotten.
- Consider the wind speed and direction. Do not carry out felling work if the wind is gusting strongly.
- Trimming of root swellings: Begin with the largest swellings. Make the vertical cut first, then the horizontal cut. Stand to the side of the falling tree.
- Keep an area clear to the rear of the falling tree up to an angle of 45° either side of the tree axis (refer to the "felling area" figure). Pay attention to falling branches.

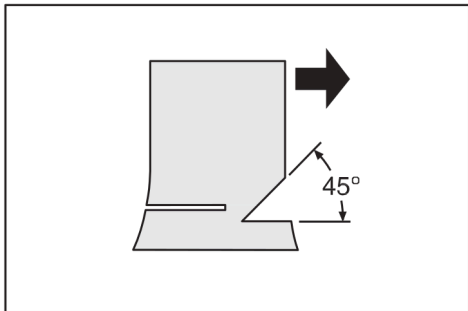
- An escape path should be planned and cleared as necessary before cuts are started. The escape path should extend back and diagonally to the rear of the expected line of fall as illustrated in figure.



► 1. Felling direction 2. Danger zone 3. Escape route

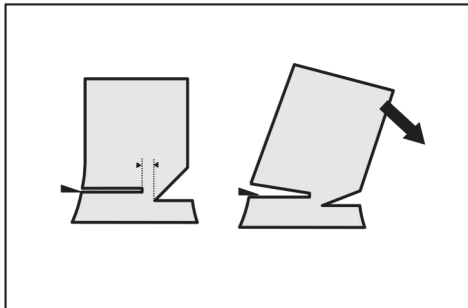
When felling trees, follow the procedures below:

1. Cut a scarf as close to the ground as possible. First make the horizontal cut to a depth of 1/5 -1/3 of the trunk diameter. Do not make the scarf too large. Then make the diagonal cut.



NOTE: The scarf determines the direction in which the tree will fall, and guides it. It is made on the side towards which the tree is to fall.

2. Make the back cut a little higher than the base cut of the scarf. The back cut must be exactly horizontal. Leave approximately 1/10 of the trunk diameter between the back cut and the scarf. The wood fibers in the uncut trunk portion act as a hinge. Insert wedges into the back cut in time.

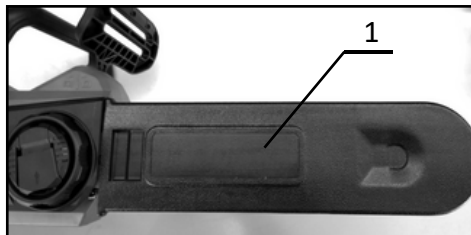


WARNING: Do not cut right through the fibers under any circumstances. The tree will otherwise fall unchecked.

NOTICE: Only plastic or aluminum wedges may be used to keep the back cut open. The use of iron wedges is prohibited.

Carrying tool

Before carrying the tool, always apply the chain brake and remove the battery cartridges from the tool. Then attach the guide bar cover.



► 1. Guide bar cover

MAINTENANCE

CAUTION: Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

CAUTION: Always wear gloves when performing any inspection or maintenance.

NOTICE: Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Cedrus Authorized or Factory Service Centers, always using Cedrus replacement parts.

Sharpening 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 obviously damaged;
- The saw pulls to the left or right in the wood. (caused by uneven sharpening of the saw chain or damage to one side only)

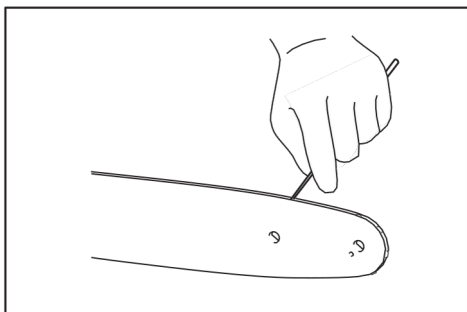
Sharpen the saw chain frequently but a little each time.

Two or three strokes with a file are usually sufficient for routine reshaping. When the saw chain has been reshaped several times, have it sharpened in our authorized service center.

Replace the saw chain if there is considerable damage that cannot be repaired by filing.

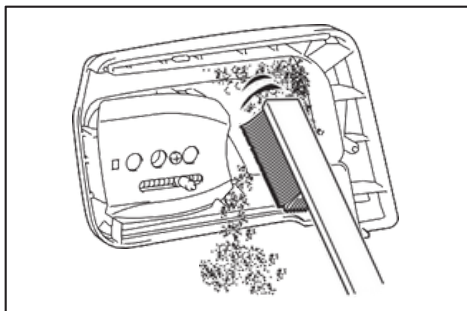
Cleaning the guide bar

Chips and sawdust will build up in the guide bar groove. They may clog the bar groove and impair the oil flow. Clean out the chips and sawdust every time when you sharpen or replace the saw chain.



Cleaning the sprocket cover

Chips and saw dust will accumulate inside of the sprocket cover. Remove the sprocket cover and saw chain from the tool then clean the chips and saw dust.



Cleaning the oil discharge hole

Small dust or particles may be built up in the oil discharge hole during operation. These dust or particles may impair the oil to flow and cause an insufficient lubrication on the whole saw chain. When a poor chain oil delivery occurs at the top of guide bar, clean the oil discharge hole as follows.

1. Remove the sprocket cover and saw chain from the tool.
2. Remove the small dust or particles using a slotted screwdriver with a slender shaft or the like.
3. Insert the battery cartridge into the tool. Pull the switch trigger to flow built-up dust or particles off the oil discharge hole by discharging chain oil.
4. Remove the battery cartridge from the tool. Reinstall the sprocket cover and saw chain on the tool.

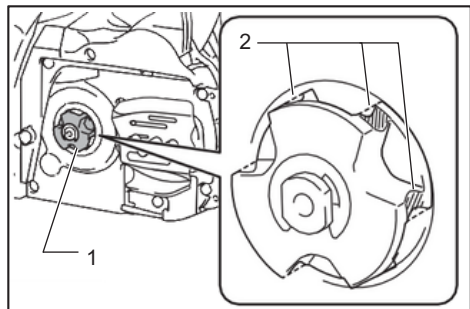


► 1. Oil discharge hole

Replacing the sprocket

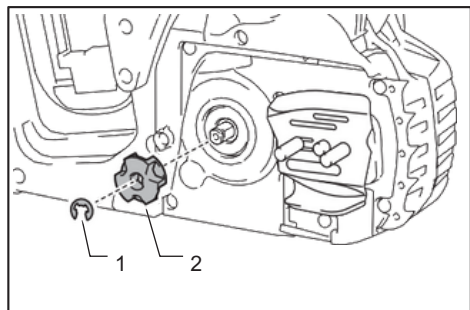
CAUTION: A worn sprocket will damage a new saw chain. Have the sprocket replaced in this case.

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



► 1. Sprocket 2. Areas to be worn out

Always fit a new locking ring when replacing the sprocket.



► 1. Locking ring 2. Sprocket

NOTICE: Make sure that the sprocket is installed as shown in the figure.

Storing the tool

Clean the tool before storing. Remove any chips and sawdust from the tool after removing the sprocket cover.

- After cleaning the tool, run it under no load to lubricate the saw chain and guide bar.
- Cover the guide bar with the guide bar cover.
- Empty the oil tank.

If you need any assistance for more details regarding these accessories, ask your local Cedrus Service Center.

- Saw chain
- Guide bar
- Guide bar cover
- File
- Tool bag
- Cedrus genuine battery and charger

OPTIONAL ACCESSORIES

CAUTION: These accessories or attachments are recommended for use with your Cedrus tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

WARNING: If you purchase a guide bar of different length from the standard guide bar, also purchase a suitable guide bar cover together. It must fit and fully cover the guide bar on the chain saw.

NOTE: Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

Instructions for periodic maintenance

To ensure long life, prevent damage and ensure the full functioning of the safety features, the following maintenance must be performed regularly. Warranty claims can be recognized only if this work is performed regularly and properly. Failure to perform the prescribed maintenance work can lead to accidents! The user of the chain saw must not perform maintenance work which is not described in the instruction manual. All such work must be carried out by our authorized service center.

| Check item / Operating time | | Before operation | Everyday | Every week | Every 3 month | Annually | Before storage |
|-----------------------------|---|------------------|----------|------------|---------------|----------|----------------|
| Chain saw | Inspection. | ✓ | - | - | - | - | - |
| | Cleaning. | - | ✓ | - | - | - | - |
| | Check at authorized service center. | - | - | - | - | ✓ | ✓ |
| Saw chain | Inspection. | ✓ | - | - | - | - | - |
| | Sharpening if necessary. | - | - | - | - | - | ✓ |
| Guide bar | Inspection. | ✓ | ✓ | - | - | - | - |
| | Remove from the chain saw. | - | - | - | - | - | ✓ |
| Chain brake | Check the function. | ✓ | - | - | - | - | - |
| | Have it inspected regularly at authorized service center. | - | - | - | ✓ | - | - |
| Chain lubrication | Check the oil feed rate. | ✓ | - | - | - | - | - |
| Switch trigger | Inspection. | ✓ | - | - | - | - | - |
| Lock-off lever | Inspection. | ✓ | - | - | - | - | - |
| Oil tank cap | Check tightness. | ✓ | - | - | - | - | - |
| Screws and nuts | Inspection. | - | - | ✓ | - | - | - |

TROUBLESHOOTING

Before asking for repairs, conduct your own inspection first. If you find a problem that is not explained in the manual, do not attempt to dismantle the tool. Instead, ask Liangye Authorized Service Centers, always using Cedrus replacement parts for repairs.

| Malfunction status | Cause | Action |
|--|--|---|
| The chain saw does not start. | Two battery cartridges are not installed. | Install two charged battery cartridges. |
| | Battery problem (low voltage). | Recharge the battery cartridges. If recharging is not effective, replace the battery cartridge. |
| | Main power switch is off. | The chain saw is automatically turned off if it is un-operated for a certain period. Turn on the main power switch again. |
| The saw chain does not run. | Chain brake activated. | Release chain brake. |
| The motor stops running after a little use. | Battery's charge level is low. | Recharge the battery cartridges. If recharging is not effective, replace the battery cartridge. |
| No oil on the chain. | Oil tank is empty. | Fill the oil tank. |
| | Oil guide groove is dirty. | Clean the groove. |
| | Poor oil delivery. | Adjust the amount of oil delivery with the adjusting screw. |
| The chain saw does not reach maximum RPM. | Battery cartridge is installed improperly. | Install the battery cartridges as described in this manual. |
| | Battery power is dropping. | Recharge the battery cartridges. If recharging is not effective, replace the battery cartridge. |
| | The drive system does not work correctly. | Ask the authorized service center in your region for repair. |
| Chain does not stop even the chain brake is activated: Stop the machine immediately! | The brake band is worn down. | Ask the authorized service center in your region for repair. |
| Abnormal vibration: Stop the machine immediately! | Loose guide bar or saw chain. | Adjust the guide bar and saw chain tension. |
| | Tool malfunction. | Ask the authorized service center in your region for repair. |