

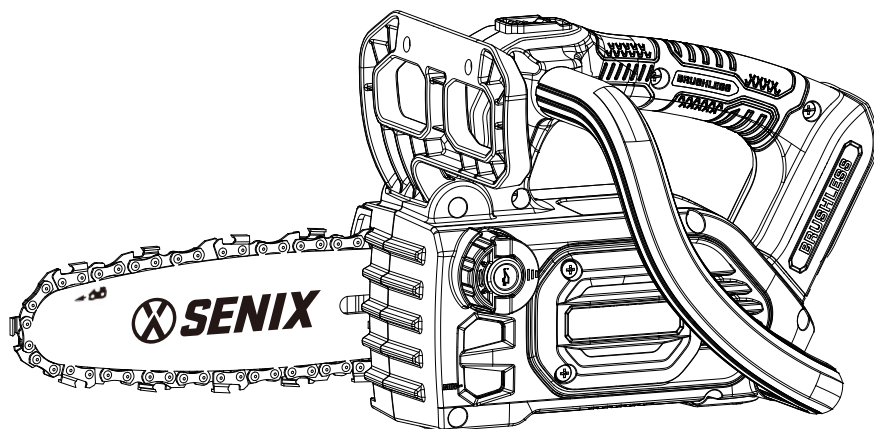
Instruction Manual

Model: CSX2-M1
CSX2-M1-O



X2 **20V** **|||||** **BRUSHLESS**TM
LITHIUM-ION

CORDLESS TOP HANDLE CHAINSAW



CAUTION: Before using this tool, please read this manual completely and follow all operating safety measures.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE
- WARRANTY

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SAFETY & INTERNATIONAL SYMBOLS

Explanation of Safety & international symbols describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating and maintenance and repair information.



Caution / Warning.



To reduce the risk of injury, user must read instruction manual.



Wear eye protection.



Wear hearing protection.



Wear respiratory protection.



Wear protective gloves.



Do not expose to rain.



DANGER - Keep hands away from blade.



Avoid power lines, use in dry conditions.



Keep all bystanders at least 50 ft. away.



Thrown objects can ricochet and result in personal injury or property damage.



Contact of the guide bar tip with any object should be avoided.



Tip contact can cause the guide bar to move suddenly upward and backward, which can cause serious injury.



Always use two hands when operating the chain saw.



Do not dispose of battery packs in rivers or immerse in water.



Do not dispose of battery packs in fire. They will explode and cause injury.



Use and store the battery within an temperature below 122°F(50°C).



Do not disassemble, crush, heat above 212°F(100°C); Never expose the battery to microwaves or high pressures.

SAFETY INSTRUCTIONS

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.

1) Work Area Safety

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

2) Electrical Safety

- a. **Power tool plugs must match the outlet. Never modify the plug in any way.** Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b. **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.
- c. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.** Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for

outdoor use reduces the risk of electric shock.

- f. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal Safety

- a. **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) Power Tool Use And Care

- a. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was

designed.

- b. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- c. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
- e. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.** *If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.*
- f. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g. **Use the power tool and any accessories 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.*

5) Battery Tool Use And Care

- a. **Recharge only with the charger specified by the manufacturer.** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*
- b. **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
- c. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** *Shorting the battery terminals together may cause burns or a fire.*

- d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** *If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.*

6) Service

- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

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.
- **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. **NOTE:** For chain saws designed with the guide bar on the left side, the reference to "right hand" and "left hand" positioning is reversed.
- **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.
- **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.
- **Do not operate a chain saw in a tree.** Operation of a chain saw while up in a tree may result in personal injury.
- **Always keep proper footing and operate the chain saw only when standing on fixed, secure and level surface.** Slippery or unstable surfaces such as

ladders may cause a loss of balance or control of the chain saw.

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

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.** 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.

VIBRATION AND NOISE REDUCTION

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment. Take the following points into account to minimize the vibration and noise exposure risks:

- Only use the product as intended by its design and these instructions.
- Ensure that the product is in good condition and well maintained.
- Use correct attachments for the product and ensure they are in good condition.
- Keep tight grip on the handles/gripping surface.
- Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
- Plan your work schedule to spread any high vibration tool use across a longer period of time.
- Prolonged use of the product exposes the user to vibrations that can cause a range of conditions collectively known as hand-arm vibration syndrome (HAVS)

e.g. fingers going white; as well as specific diseases such as carpal tunnel syndrome.

- To reduce this risk when using the product, always wear protective gloves and keep your hands warm.
- The symptoms of HAVS include any combination of the following: Tingling and numbness in the fingers; Not being able to feel things properly; Loss of strength in the hands; Fingers going white (blanching) and becoming red and painful on recovery (particularly in the cold and wet, and probably only in the tips at first). Seek medical advice immediately if such symptoms are experienced.

EMERGENCY

Familiarize yourself with the use of this product by means of this instruction manual. Memorize the safety directions and follow them to the letter. This will help to prevent risks and hazards.

- Always be alert when using this product, so that you can recognize and handle risks early. Fast intervention can prevent serious injury and damage to property.
- Switch off the product and remove the battery pack if there are malfunctions. Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

RESIDUAL RISKS

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

- Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
- Injuries and damage to property due to broken attachments or the sudden impact of hidden objects during use.
- Danger of injury and property damage caused by flying objects.
- Prolonged use of this product expose the operator to vibrations and may produce 'whitefinger' disease. In order to reduce the risk, please wear gloves and keep your hands warm. If any of the 'whitefinger' symptoms appear, seek medical advice immediately. 'Whitefinger'

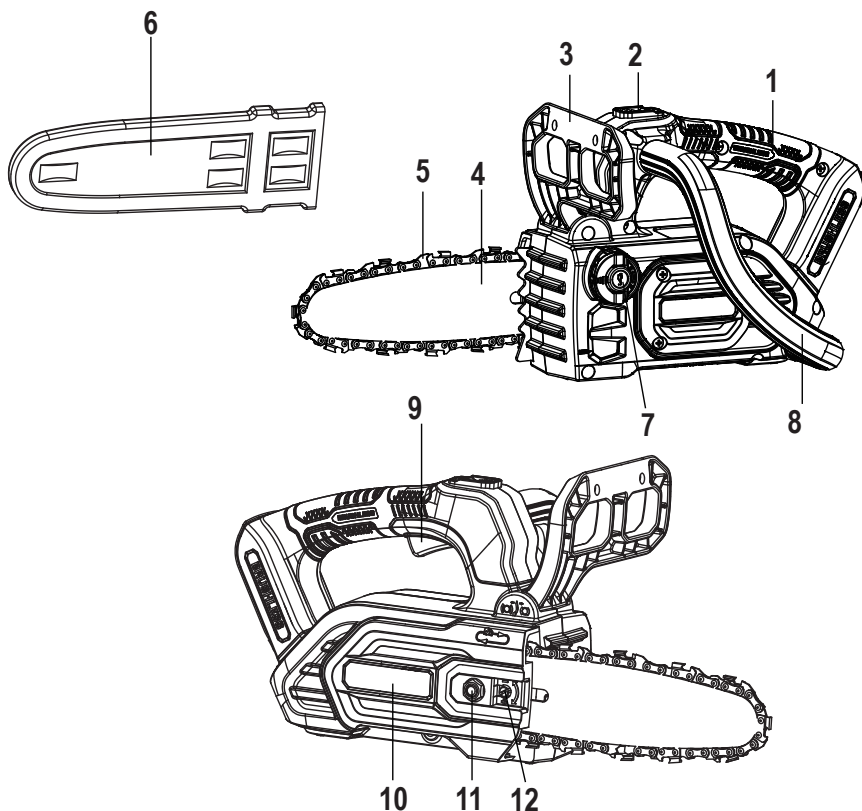
symptoms include: numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists. The risk increases at low temperatures.



WARNING!

This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants!

To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!



KNOW YOUR UNIT

APPLICATIONS

Model: CSX2-M1

As a chainsaw:

Limbing, felling, woodcutting, and remove buttress roots.

1	Rear Handle
2	Trigger Lock-out
3	Guard with Chain Brake
4	Guide Bar
5	Saw Chain
6	Guide Bar Cover

7	Oil Tank Cap
8	Auxiliary Handle
9	Switch Trigger
10	Side Cover
11	Side Cover Nut
12	Tensioning Gear



NOTE:

CSX2-M1-0 does not include the charger and the battery pack.

SPECIFICATIONS*

Model	CSX2-M1
Rated voltage	18 V \approx (20 V \approx Max*)
No-load speed	6000rpm
Recommended bar and chain	10inch / 8inch
Guide bar length	10inch
Cutting capacity	22cm
Guide Bar Type	Manufacturer: Hangzhou Excelsior & Sharp Garden Tools Co., Ltd.
	Type/Model NO. : ES104MLEA041
Saw Chain Type	Manufacturer: Hangzhou Excelsior & Sharp Garden Tools Co., Ltd.
	Type/Model NO. : 3/8LP.043.40E
Chain speed	11m/s
Oil capacity	2.05oz
Weight (without battery, saw chain and guide bar)	4.19lbs

*20V Max battery, maximum initial battery voltage (measured without a workload) is 20V. The nominal voltage is 18V.



NOTE:

Only use the following batteries:
B20X2, B25X2, B40X2, B50X2 and chargers:
CHX2-L1, CHX2, CHQX2, CHQX2-M, CHDX2-M.

ASSEMBLY

1. Unpack all parts and lay them on a flat, stable surface:
2. Remove all packing materials and shipping devices, if applicable.
3. The scope of delivery varies depending on

the country and purchased variant:

Model of CSX2-M1-0

- Chainsaw x1
- Instruction manual x1
- Guide bar x1
- Guide bar cover x1
- Saw chain x1
- Wrench x1

4. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
5. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.



NOTE:

CSX2-M1 includes the charger and the battery pack.

CSX2-M1-0 does not include the charger and the battery pack.



WARNING:

Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling.

Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!

Do not insert the battery pack before the power tool is completely assembled or adjusted!



INSTALLING THE SAW CHAIN AND THE GUIDE BAR



WARNING:

Ensure the battery pack is removed from the chainsaw before attaching the bar and chain.

1. Totally loosen the side cover nut counterclockwise with the assistance of wrench. Then remove the side cover (Fig.1).

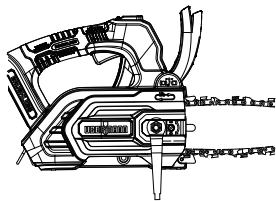


Fig. 1

2. Loop the new saw chain into the slot of the guide bar according to the provided figure (Fig.2).

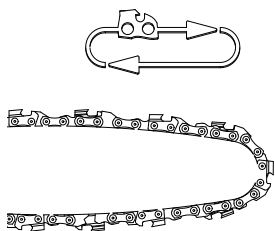


Fig. 2

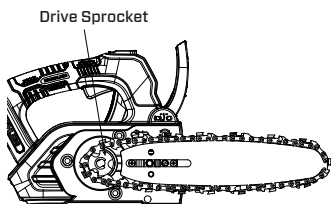


Fig. 3

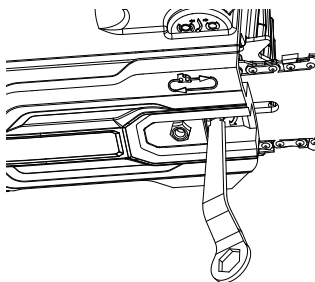


Fig. 4

3. Install the guide bar and the saw chain on the drive sprocket (Fig.3). Adjust the

tensioning gear when the guide bar and saw chain can not be mount over the drive sprocket (Fig.4).

4. Pull the chain around the guide bar with your gloved hand or using auxiliary tools to make sure it can run smoothly.



NOTE:

It is still recommended to check for smoothness of the saw chain before operation even after using it for a period of time.

5. Replace the side cover and slightly tighten the side cover nut (Fig.1). Do not tighten too much. Meanwhile, protect the saw chain from sliding out.
6. Twist the tensioning gear till the saw chain can be lifted by 2-3 mm from the center of the guide bar.
7. Fully tighten the side cover nut clockwise (Fig.1).



NOTE:

After a short period of use, allow the chain to cool, remove the battery and check the tension again.

BAR AND CHAIN OIL FILLING



WARNING:

Bar and chain oil prevents premature wear. Never operate the chainsaw if oil is not visible. Check oil level frequently and fill as needed.



NOTE:

Bar and chain oil is required to properly lubricate the guide bar and saw chain. The chainsaw is equipped with an automatic oiler that deposits oil on the bar and chain when running, keeping them properly lubricated.

1. Place the chainsaw on its side on a firm, flat surface, so that the oil tank cap is on top.
2. Clean any debris from the cap area.
3. Remove the oil tank cap (Fig.5).
4. Carefully pour the bar and chain oil into the tank.
5. Replace the cap and make sure oil is visible

in the tank.

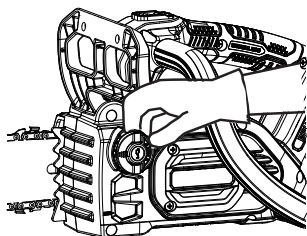


Fig. 5

INSTALLING/REMOVING THE BATTERY PACK

To install:

Slide the battery pack to the battery docking port on the product until it clicks (Fig.6).

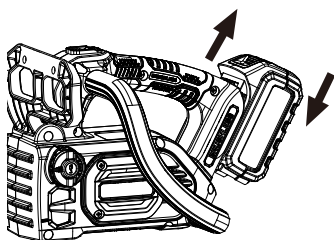


Fig. 6

To remove:

Press the unlock button on the battery pack and slide the battery pack out.

TESTING THE CHAIN BRAKE

This chainsaw is designed with a function of chain brake on the guard, which stops both the motor and the motion of the chain when kickback occurs. The chain brake can be activated by pushing the guard forward as the saw rotates backward during kickback. Make sure the chain brake is working before using the chainsaw.

To check brake operation (Fig.7):

- Place the saw on a firm, flat surface.
- Start the saw briefly.
- Push the guard forward to activate the function of chain brake. A properly functioning chain brake stops the motor and saw chain immediately. If the motor and saw chain do not stop immediately, have the chain brake checked at an approved service location.
- Release the switch trigger.
- Return to operating position.

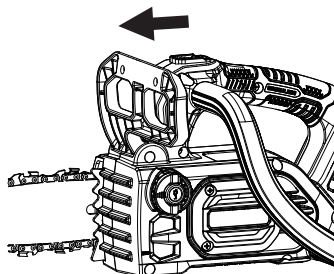


Fig. 7

OPERATION



WARNING:

Never operate a chain saw that is damaged or improperly adjusted or that is not completely and securely assembled. Be sure that the saw chain stops moving when the power control system trigger is released. Never adjust the guide bar or saw chain when the engine is operating.



WARNING:

Keep hands, clothing, and hair away from the drive sprocket when priming the oiler.



NOTE:

Prime the oiler before the first use or after being stored for a long time.

It is essential to fill with oil before use. Operating the chainsaw without bar and chain

oil will result in damage to the chain saw. The chain is automatically lubricated with oil during operation via the oil outlet (Fig.8).

1. Insert the battery.
2. Run the chainsaw for about two minutes.
3. Remove the battery.
4. Remove the side cover.
5. Check for oil on the bar.

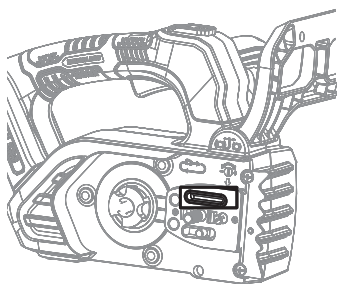


Fig. 8

TENSIONING THE SAW CHAIN



NOTE:

Check the tension between the saw chain and the guide bar before every starts of the chainsaw.



WARNING:

Only tension the saw chain when the chain is cool. A hot chain may contract and damage the guide bar or chain as it cools.

1. It is no need to remove the side cover for adjusting the chain tensioning gear (Fig.4). Just loosen the side cover nut slightly by a wrench to unlock the guide bar and saw chain which completely locked during operation.
2. Twist the tensioning gear till the chain come to a suitable tension status. The correct chain tension is reached when the saw chain can be lifted by 2-3 mm from the center of the chain bar.
3. Tighten the side cover nut after adjustment.



NOTE:

If the chain is still loose when the saw is at maximum tension, replace the chain.

SWITCHING ON/OFF



WARNING:

Follow the instructions in your operator's manual for starting the chain saw and control the chain saw with a firm grip on both handles when it is in operation. Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle. Keep handles dry, clean, and free of oil.

Ensure the guard is at operation position. If not, turn it back to the operation position. Keep the trigger lock-out being pressed at first, then squeeze the switch trigger to start the product. Just release the trigger lock-out once the chainsaw starts. To turn off the chainsaw, release the switch trigger (Fig.9).

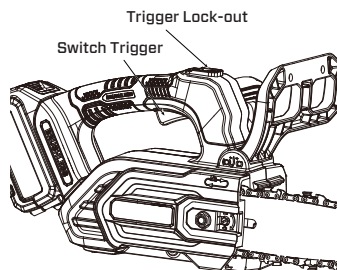


Fig. 9

OVERHEAT PROTECTION OF CHAINSAW

When the temperature of PCB is above 248°F(120°C) during operation, The chainsaw will be shut down automatically. Wait it to cool down for about five minutes then restart the product.

GENERAL SAWING TECHNIQUES



NOTE:

It is recommended that first-time user should, as a minimum practice, cutting logs on a saw-

horse or cradle.

- Saw off the lower branches on the tree first. By doing so, it is easier for the cut branches to fall to the ground.
- At the end of the cut, the weight of the saw suddenly increases for the user since it is no longer being supported by a branch. There is a risk of losing control of the saw, so make sure to stay alert during the entire sawing operation.
- Only pull the saw out of a cut while the saw is running. By doing so, you prevent the chain from jamming in the wood.
- DO NOT saw with the tip of the chain bar. DO NOT saw into the branch formations (where the tree branches outwards). This will impede the tree's ability to heal.
- For sawing off smaller branches, place the stop face of the saw on the branch. This prevents unwanted movements of the saw at the beginning of the cut. While applying light pressure, guide the saw through the branch from top to bottom.
- For sawing off larger branches, first make a relief cut. Saw through 1/3 of the branch diameter from the bottom to top using the top side of the chain bar. Then saw from top to bottom for the other 2/3 using the bottom side of the chain bar. Saw off longer branches in sections in order to maintain control over the location of impact.

FELLING A TREE

When cross-cutting/bucking and felling operations are being performed by two or more persons at the same time, the felling operations should be separated from the crosscutting/bucking operation by a distance of at least twice the height of the tree being felled.

Trees should not be felled in a manner that would endanger any person, strike any utility line or cause any property damage. If the tree does make contact with any utility line, the company should be notified immediately. The chain saw operator should keep on the uphill side of the terrain as the tree is likely to roll or slide downhill after it is felled.

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 (Fig.10).

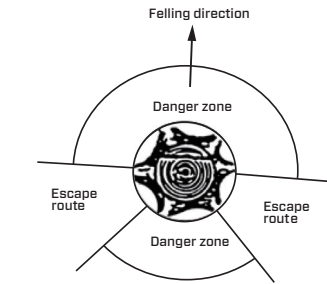


Fig. 10

Before felling is started, consider the natural lean of the tree, the location of larger branches and the wind direction to judge which way the tree will fall.

Remove dirt, stones, loose bark, nails, staples and wire from the tree.

NOTCHING UNDERCUT

Make the notch 1/3 the diameter of the tree, perpendicular to the direction of falls (Fig.11). Make the lower horizontal notching cut first. This will help to avoid pinching either the saw chain or the guide bar when the second notch is being made.

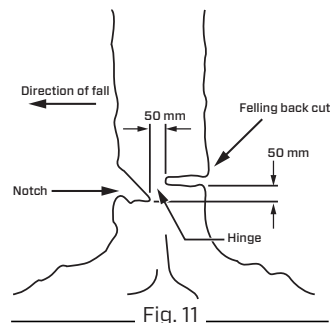


Fig. 11

FELLING BACK CUT

Make the felling back cut at least 2inch(50 mm) higher than the horizontal notching cut (Fig. 11). Keep the felling back cut parallel to the horizontal notching cut. Make the felling back cut so enough wood is left to act as a hinge. The hinge wood keeps the tree from twisting and falling in the wrong direction. Do not cut through the hinge.

As the felling gets close to the hinge, the tree should begin to fall. If there is any chance that the tree may not fall in desired direction or it

may rock back and bind the saw chain, stop cutting before the felling back cut is complete and use wedges of wood, plastic or aluminium to open the cut and drop the tree along the desired line of fall.

When the tree begins to fall, remove the chain saw from the cut, stop the motor, put the chain saw down, then use the retreat path planned. Be alert for overhead limbs falling and watch your footing.

LIMBING A TREE

Limbing is removing the branches from a fallen tree. When limbing leave larger lower limbs to support the log off the ground. Remove the small limbs in one cut (Fig.12). Branches under tension should be cut from the bottom up to avoid binding the chain saw.

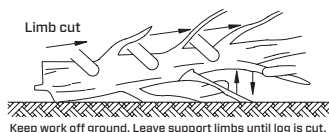


Fig. 12

CROSS-CUTTING/BUCKING A LOG

Cross-cutting/bucking is cutting a log into lengths. It is important to make sure your footing is firm and your weight is evenly distributed on both feet. When possible, the log should be raised and supported by the use of limbs, logs or chocks. Follow the simple directions for easy cutting. When the log is supported along its entire length (Fig.13), it is cut from the top (overbuck).

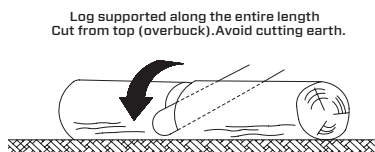


Fig. 13

When the log is supported on one end (Fig.14),

cut 1/3 the diameter from the underside (underbuck). Then make the finished cut by overbucking to meet the first cut.

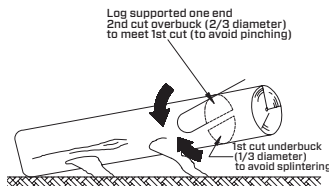


Fig. 14

When the log is supported on both ends (Fig.15), cut 1/3 the diameter from the top (overbuck). Then make the finished cut by underbucking the lower 2/3 to meet the first cut.

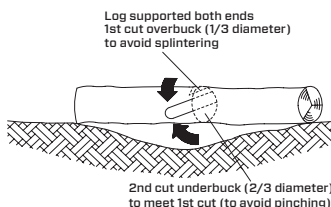


Fig. 15

When cross-cutting/bucking on a slope always stand on the uphill side of the log (Fig.16).

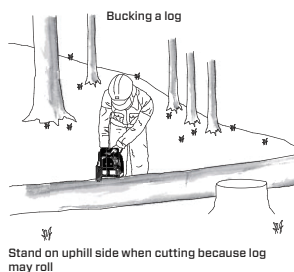


Fig. 16

When "cutting through", to maintain complete control, release the cutting pressure near the end of the cut without relaxing your grip on the

chain saw handles.

Don't let the chain contact the ground. After completing the cut, wait for the saw chain to stop before you move the chain saw. Always stop the motor before moving from tree to tree.

CHARGING THE BATTERY PACK



WARNING:

This Lithium-Ion battery pack is shipped partially charged. Fully charge the battery pack before using it for the first time.

REPLACING/CHANGING THE SAW CHAIN AND GUIDE BAR

Exchange a worn guide bar/chain saw refers to "INSTALLING THE SAW CHAIN AND THE GUIDE BAR".

Only use the specified parts for replacements.

SHARPENING THE SAW CHAIN

Do not sharpen the saw chain by yourself, unless you are experienced in doing so. It is recommended to have the chain saw sharpened by an authorized service.

CLEANING

- Remove the battery.
- Remove wood chips and other debris from the battery port. Clean dirty contacts with a soft, dry cloth. Dirt or oil can cause a poor electrical connection, resulting in loss of power.



WARNING:

There are no user serviceable parts inside the battery pack. Do not disassemble.

- After use, clean debris from the saw chain

against dust.



NOTE:

Charge batteries at a ambient temperature of 32°F-104°F (0°C-40°C) and always store batteries at a ambient temperature of 32°F-77°F (0°C-25°C).

1. Charge the Lithium-Ion battery pack only with the correct charger.
2. Connect the charger to a power supply, the light indicator of the charger turns red.
3. Align the raised ribs of the battery pack with the slot in the charger.
4. Insert the battery pack into the charger, the light indicator of the charger turns green and it flashes (Fig.17).
5. The charger will communicate with the battery pack to evaluate the condition of the battery pack.
6. It is fully charged that the four lights of the battery turn on. Disconnect the power supply from the charger. Remove battery pack from the charger.

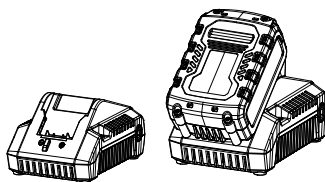


Fig. 17

CHARGING INDICATOR

Press the light button on the battery pack to check whether it needs to charge (Fig.18) .

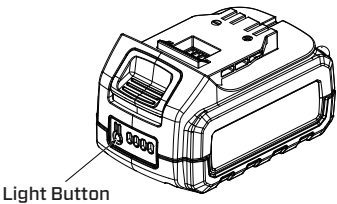










Fig. 18

Lights			Status
Lighted	Off	Blinking	
			
			The battery is at full capacity.
			The battery is at 75% capacity.
			The battery is at 50% capacity and requires charging.
			The battery is at 25% capacity and requires charging soon.
			The battery is less than 5% capacity and requires charging immediately.



WARNING:

Malfunctions may occur when the four lights blinking in turns.

OVERHEAT PROTECTION

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

OVERDISCHARGE PROTECTION

When the battery capacity is not enough, the tool stops automatically. In this case, remove the battery from the tool and charge the battery.

MAINTENANCE



WARNING:

Failure to identify and replace damaged or worn parts can cause serious personal injury. Inspect the chainsaw regularly. Regular inspection is the first step to proper maintenance. Follow the guidelines below to maximize safety and satisfaction. Have any damaged or excessively worn parts replaced immediately.



WARNING:

Always remove the battery pack and let the product completely cool down before performing cleaning and maintenance work! Always wear gloves to reduce the risk of injury when operating this unit. Only perform cleaning and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

and guide bar. Wipe power head with a clean cloth moistened with a mild soap solution. Never use harsh cleaners or solvents.

- Always clean out wood chips, saw dust and dirt from the bar groove when replacing saw chain.
- Ensure that the chain tensioning gear is free of wood chips and other debris.



NOTE:

When cleaning the chainsaw powerhead, do not immerse in water or other liquids.

TRANSPORT

- Remove battery pack from the chainsaw.
- Install the guide bar cover.
- If desired, drain the bar and chain oil to reduce seepage.
- Carry saw with bar and chain facing behind the operator.
- Tools can shift during transport. Ensure the tool is secure and cannot fall or move into contact with people or property.

STORAGE

- Remove the battery pack from the chainsaw.
- Clean chainsaw thoroughly as described above.
- Install the guide cover and place an absorbent pad under the bar.
- Store in a dry place.
- Keep out of reach of children or pets.
- We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it



NOTE:

To prolong battery life, never store battery pack in a completely discharged condition. Make sure the battery pack is charged once per year or when the LED indicator shows only one light.

DISPOSAL

Waste product should not be disposed of with household waste. Please recycle where facilities exist.

Check with your local authority or retailer for recycling advice.



Electrical products should not be discarded with household products. Used electrical products must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

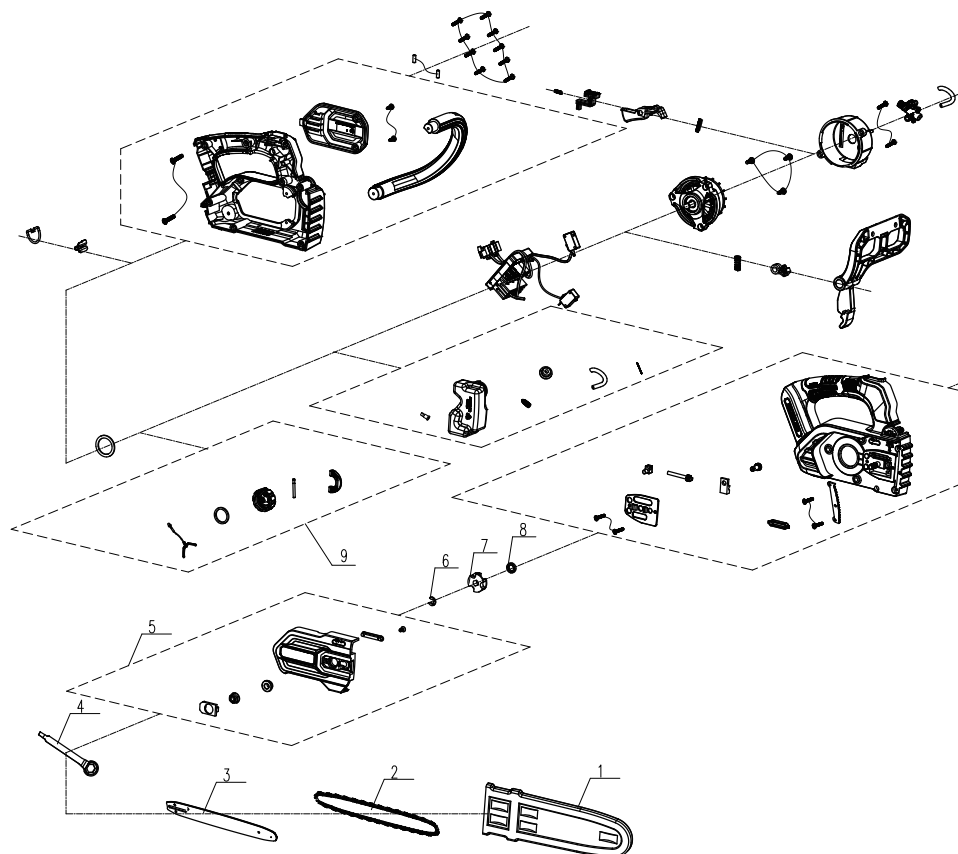
TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor does not run or runs intermittently	Chain brake engaged	Before starting, make sure the hand guard is in its most rearward position (chain brake disengaged). For correct hand guard position, see "SWITCHING ON/OFF" in this manual.
	Battery discharged	Recharge. See "CHARGING THE BATTERY PACK" in this manual.
	Trigger lock-out not opened	See "SWITCHING ON/OFF" in this manual.
	Battery pack not fully inserted	Clean debris from the battery port and terminals with a clean dry cloth or non-conductive brush.
	Debris in side cover	Remove battery pack, then remove side cover and clean out debris.
	Battery pack cold	Allow battery to warm above the minimum operating temperature of 32°F (0°C).
Low cutting efficiency	Dull / worn chain	Sharpen or replace the chain.
	Dry chain	Check the oil level.Refer to "OIL FILLING".
	Over tensioned chain	Adjust the chain tensioning gear to the appropriate tension.
	Improper cutting technique	Follow guidelines in "CUTTING" in this manual.
	Debris in side cover	Remove battery pack, then remove side cover and clean out debris.
	Battery pack not fully charged	Recharge. Refer to "CHARGING THE BATTERY PACK".
Chain brake does not engage	Debris preventing full movement of hand guard	Clean debris from external chain brake mechanism.
	Possible chain brake malfunction	Contact an approved service location immediately.

Chainsaw does not cut properly	Insufficient chain tension	Adjust the tensioning gear again.
	Dull / worn chain	Sharpen or replace the chain.
	Chain installed backwards	Assemble the chain again as the figure on the cover side.
	Dry or excessively stretched chain	Check the oil level. Refer to "OIL FILLING".
Battery pack does not charge	Battery pack over/under temperature protection is activated	This may occur when the saw is run continuously or exposed to high ambient temperatures. Allow the battery pack to reach the acceptable temperature before charging.
	Dirty or damaged contacts on battery pack or charger	Inspect the contacts on the both the battery pack and charger. If necessary, clean according to the instructions in this manual. Reinsert battery pack into the charger, making sure it is fully seated.
	Battery pack is at the end of its life	All batteries have a limited life. If the battery pack is more than two years old or has been recharged frequently, it may be time to replace it. Replace only with the battery pack specified for this chainsaw.
	Charger faulty	Have the function checked at an approved service location.

PARTS



No.	Part #	Description	Qty.
1	8331-431201-0000110	Guide bar cover	1
2	201001000053	Saw chain	1
3	199140000112	Guide bar	1
4	8261-463101-0000000	Wrench	1
5	199002000949	Side cover assembly	1
6	8CE-07	E-type retaining ring	1

7	8128-462202-0000000	Sprocket	1
8	207280100018	Output shaft sleeve	1
9	199123000462	Oil tank cover assembly	1

WARRANTY

SENIX TOOLS LIMITED WARRANTY

FOR FIVE YEARS from the date of original purchase this product is warranted against defects in material or workmanship. **WITH PROOF OF ORIGINAL PURCHASE** a defective product will receive free repair. If the product cannot be repaired it will be replaced free of charge.

For details to obtain warranty coverage, visit senixtools.com, email senix.support@yatusa.com or call **1-800-261-3981**.

- This warranty does not cover repairs necessary due to product accident or abuse, or failure to operate or maintain the product according to all supplied instructions.
- This warranty does not cover an included battery pack or charger, which offer three-year, replacement-only coverage. See battery pack or charger instruction manuals for complete warranty details.
- This warranty does not cover expendable items that can wear out from normal use within the warranty period, including but not limited to drill bits, cutting blades and trimmer spool or line.
- This warranty does not apply to damage resulting from repairs to the product made or attempted by other than SENIX authorized agents.
- This warranty does not cover the cost of mailing or transporting the power tool to receive warranty coverage.
- The warranty is void if the product has been used for commercial, professional, or rental service purposes.
- The warranty applies to the original retail purchaser and is not transferable.
- Proof of purchase is required to obtain warranty coverage.

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHERS, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND EXCLUDES ALL INCIDENTAL OR CONSEQUENTIAL DAMAGE.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

NOTE: Battery pack warranty voided if the battery pack is tampered with in any way. SENIX is not responsible for any injury caused by tampering and may prosecute warranty fraud to the fullest extent permitted by law.

60-DAY MONEY-BACK GUARANTEE. If for any reason within 60 days from the date of original purchase you are not completely satisfied with the performance of this SENIX product, you can return it with the original sales receipt for a full refund.

Latin America: This warranty does not apply to products sold in Latin America. For products sold in Latin America, see the country-specific warranty information contained in the packaging, call the retailer from which it was purchased, or visit the website for warranty information.

Free warning label replacement: If your warning labels become illegible or are missing, call **1-800-261-3981** for a free replacement.

REGISTER ONLINE - senixtools.com/pages/product-registration

Thank you for your purchase! Register your product now for:

Warranty Service: Registering your product will help you obtain more efficient warranty service in case of a problem with your product.

Confirmation of Ownership: In case of an insurance loss, such as fire, flood, or theft, your ownership registration will serve as proof of purchase.

For your safety: Registering your product will allow us to contact you in the unlikely event a safety notification is required under the Federal Consumer Safety Act.



YAT USA INC. 10506 Bryton Corporate Center Dr, #500 Huntersville, NC 28078

For customer support, please call 1-800-261-3981 or email us at senix.support@yatusa.com