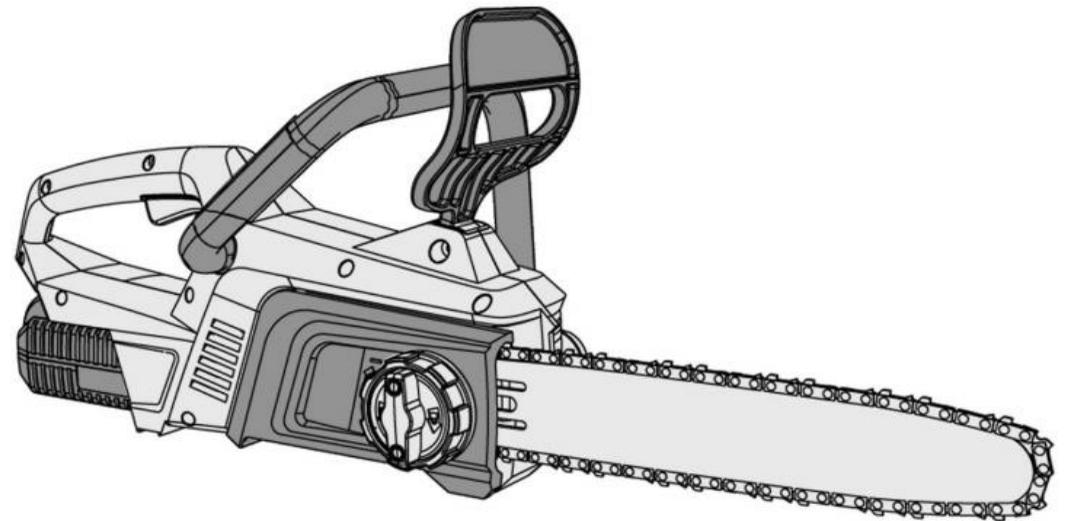




40V LITHIUM-ION CORDLESS CHAINSAW

Model: EB212D



Operations Manual

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SYMBOLS



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



Warning



Wear ear protection



Wear eye protection



Wear dust mask



Do not expose to moisture



Do not burn the battery



Do not expose to rain or water



Hold the chainsaw by two hands



Danger of Kickback: never cut with the tip of the chainsaw



Do not throw batteries and other electrical products into the household waste, fire, or water.



Li-ion

Do not dispose of batteries. Return exhausted batteries to your local collection or recycling point.

SAFETY INSTRUCTIONS



User

This garden tool is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety.

Never allow children or people unfamiliar with these

instructions to use the garden tool. Supervise children.

This will ensure that children do not play with the unit.

Intended Use

This chainsaw tool is

- designed for cutting brushes, trunks, or timber beams up to a diameter according to the guide bar length
- only allowed to cut wood
- not suitable for work above shoulder height,
- to be used according to the descriptions and safety instructions indicated in this operating manual.

Any other use is not as intended. Improper use is not covered by the warranty and the manufacturer will reject any liability. The user is liable for all injuries to third parties and damage to their property. People who work with the chainsaw or make maintenance on it must be familiar with the manual. It is only allowed to assemble on the chainsaw the manufacturer's original or approved spare parts (e.g., guide bar, saw chain, spark plug) as well as the allowed combinations of guide bar / saw chain as named in the manual. Furthermore, a professional use for tree services is strictly forbidden.

Operate the unit only in the technical condition as stipulated and delivered by the manufacturer. Arbitrary changes to the unit will exclude the manufacturer from any liability for resulting injury and/or damage.

The chainsaw is only intended to be used outdoors.

Residual Risks

Even with the intended use of the power tool, there is always a residual risk, which cannot be prevented.

According to the type and construction of the tool, the following potential hazards might apply:

1. Contact with exposed saw teeth of the saw chain (cutting hazards)
2. Access to the rotating saw chain (cutting hazards)
3. Unforeseen, abrupt movement of the guide bar (cutting hazards)
4. Flung out of parts from the saw chain (Cutting / injection hazards)
5. Flung out of parts of the work piece
6. Inhalation of work piece particles and emissions from the gasoline engine
7. Skin contact with the fuel (gasoline / oil)
8. Loss of hearing, if no required ear protection used during work. 

POWER TOOL SAFETY WARNINGS



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

1. **The declared vibration total value may be used for comparing one tool with another, and may also be used in a preliminary assessment of exposure.**

2. **The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependent on the following examples and other variations on how the tool is used:**
3. **To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job.** This may significantly reduce the exposure level over the total working period.
4. **Do not connect the chain saw to mains before it is completely assembled.** Always use gloves when handling the chain.
5. **Remove battery pack from chain saw before servicing.** Severe injury or death could occur from body contact with moving chains.
6. **Cutting edges on chains are sharp.** Use protective gloves when handling chains

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 the 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.** Water entering a power tool will increase the risk of electric shock. 
4. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool.** Keep the cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords 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.

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 dust mask, non-skid safety shoes, hard hats, or hearing protection used for appropriate conditions will reduce the risk of injury.
3. **Prevent unintentional starting.** Ensure the switch is in the off-position before connecting to the power source and/or battery pack, picking up, or carrying the tool. Carrying power tools with your finger on the switch or power tools that have been turned 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 increase the risk of 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 jewelry.** Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught by moving parts.

7. **If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

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 is designed.
2. **Do not use the power tool if it can't be turned on and off by its switch.** 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 the battery pack from the power tool before making any adjustments, changing accessories, or before storing the power tool.** Such preventive safety measure reduces the risk of starting the power tool accidentally.
4. **Store idle power tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate it.** Power tools are dangerous in the hands of untrained users.
5. **Maintain the power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

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.

as possible. Liquid ejected from the battery may cause irritation or burns.

Service

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

Safety Warnings for Battery Pack

1. **Do not dismantle, open or shred cells or battery packs.**
2. **Do not short-circuit a battery pack.** Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials. When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
3. **Do not expose the battery pack to heat or fire.**
Avoid storage in direct sunlight. 
4. **Do not subject the battery pack to mechanical shock.**
5. **In the event of battery leaking, do not allow the liquid to come into contact with the skin or eyes.**
If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
6. **Seek medical advice immediately if a cell or battery pack has been swallowed.**

7. **Keep the battery pack clean and dry.**
8. **Wipe the battery pack terminals with a clean dry cloth if they become dirty.**
9. **Battery pack needs to be charged before use.**
Always refer to this instruction and use the correct charging procedure.
10. **Do not maintain the battery pack on charge when not in use.**
11. **After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.**
12. **Battery pack gives its best performance when it is operated at normal room temperature (68 °F ± 41 °F).**
13. **When disposing of battery packs, keep battery packs of different electrochemical systems separate from each other.**
14. **Recharge only with the charger specified by Swift.** Do not use any charger other than that specifically provided for use with the equipment. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
15. **Do not use any battery pack which is not designed for use with the equipment.**
16. **Keep the battery pack out of the reach of children.**
17. **Retain the original product literature for future reference.**
18. **Remove the battery from the equipment when not in use.**
19. **Dispose of properly.**



Li-ion

20. **Use a charger approved according to EN 60335-2-29.**

Instructions Before Usage

1. Before Using Your Cordless Chainsaw

Your battery pack must be fully charged once before it is used. The battery charger supplied is matched to the Li-ion battery for use with this tool. Do not use another battery charger.

2. Charging Your Battery Pack

The Li-ion battery is protected against over discharging. When the battery is empty, the trimmer will switch off by means of a protective circuit. The trimmer head will stop rotating.

Note: In a warm environment or after heavy use, the battery pack may become too hot to permit charging. Allow time for the battery to cool down before recharging.

3. Storage of the Charger and Battery

For long-term storage, it is preferable that the battery is fully charged and stored in a dry place at a temperature between 50 and 77 °F.

The charger should be stored in the same conditions as the battery. Keep it well that no foreign objects such as metal chips can enter through the ventilation slots of the charger.

Chainsaw Safety Warnings

1. **Keep all parts of the body away from the saw chain when the chainsaw is operating.** Before you start the chainsaw, make sure the saw chain is not contacting anything. A moment of inattention while operating chainsaws may cause entanglement of your clothing or body with the saw chain.

Battery Tool Use and Care

1. **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.
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 fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If you accidentally contact the battery liquid, flush it with water.** If the battery liquid contacts the eyes, seek medical help as soon

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 from flying debris or accidental contact with the saw chain.



5. **Do not operate a chainsaw 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 surfaces.** Slippery or unstable surfaces such as ladders may cause a loss of balance or control of the chainsaw.

7. **When cutting a limb that is under tension be alert for spring back.** When the tension in the wood fibers 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 chainsaw by the front handle with the chainsaw switched off and away from your body.** When transporting or storing the chainsaw always fit the guide bar cover. Proper handling of the chainsaw 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 chainsaws for cutting plastic, masonry or non-wood building materials. Use of the chainsaw 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.

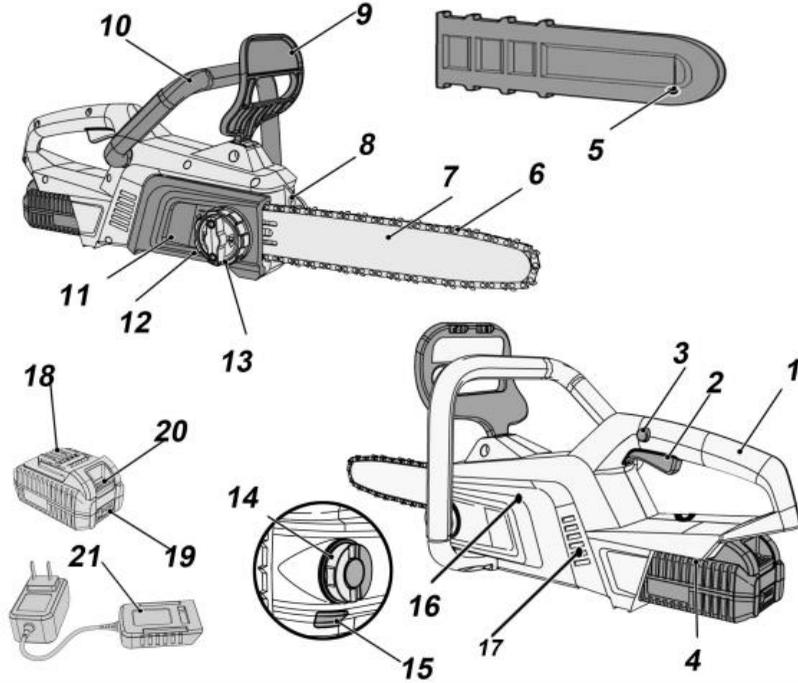
Either of these reactions may cause you to lose control of the saw which could result in serious personal injury.

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 accidents 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:

1. **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 chainsaw.
2. **Do not overreach and do not cut above shoulder height.** This helps prevent unintended tip contact and enables better control of the chainsaw in unexpected situations.
3. **Only use replacement bars and chains specified by the manufacturer.** Incorrect replacement bars and chains may cause chain breakage and/or kickback.
4. **Follow the manufacturer's sharpening and maintenance instructions for the saw chain.** Decreasing the depth gauge height can lead to increased kickback.

MAJOR PARTS OF THE CHAINSAW



- | | |
|--------------------------------|---------------------------------------|
| 1. Rear handle | 12. Chain cover |
| 2. On/Off button | 13. Handwheel |
| 3. Switch interlock | 14. Oil tank cap |
| 4. Insertions slot for battery | 15. Oil tank with oil level indicator |
| 5. Protection hood | 16. Housing |
| 6. Chain hood | 17. Ventilation opening |
| 7. Chain guide bar | 18. Battery (EB20) |
| 8. Spiked bumper | 19. LED state of charge indicator |
| 9. Hand guard/chain brake | 20. Battery release button |
| 10. Handlebar | 21. Battery charger (EBC05) |
| 11. Chain tensioning wheel | |

Package Contents

- Chainsaw body
- Chain guide bar
- Saw chain
- Operator's manual

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

TECHNICAL SPECIFICATIONS

Tool	Chainsaw
Model	EB212D
Voltage	40V
Battery pack	EB20 (2.0Ah)
Chain speed	10m/s
Oil tank capacity	150ml
Weight (without battery, guide bar and saw chain)	6.61 lbs. (3.0 kg)
Guide bar length	12.20"/310mm
A-weighted sound pressure level according to ISO 22868, EN 3744	
Sound Pressure Level	89 dB
Guaranteed Sound Power Level	106 dB
Uncertainty K	3 dB



GENERAL SAFETY WARNING

1. How the tool is used and the materials are cut or drilled.
2. The tool being in good condition and well-maintained
3. The use of the correct accessory for the tool and ensuring it is sharp and in good condition.
4. The tightness of the grip on the handles and any anti-vibration accessories are used.
5. And the tool is being used as intended by its design and these instructions.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed. Hands may become dull and numbing.



GENERAL SAFETY WARNING #3!

Help to minimize your vibration exposure risk. ALWAYS use sharp chisels, drills and blades.

Maintain this tool in accordance with these instructions and keep it well-lubricated (where appropriate).

If the tool is to be used regularly then invest in anti-vibration accessories.

Avoid using tools in temperatures of 500F or less.

Plan your work schedule to spread any high vibration tool use across a number of days.

ASSEMBLY AND OPERATION



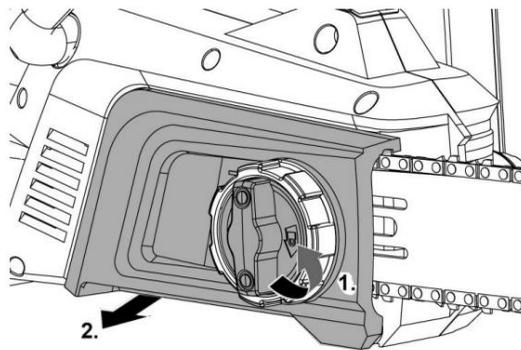
GENERAL SAFETY WARNING #4!

Assembly / Replacement of The Guide Bar and Chain

WARNING: The teeth on the saw chain are very sharp! Wear protective gloves when performing any work on the chain.

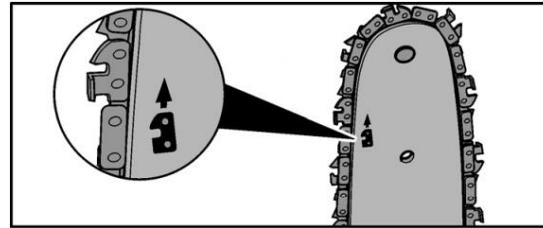
RISK OF INJURY: An incorrectly attached saw chain will cause the power tool to cut in an uncontrolled manner! When attaching the chain, observe the specified running direction!

- Place the chain saw on any suitable flat surface
- Loosen the handwheel (1) and remove the chain cover (2).

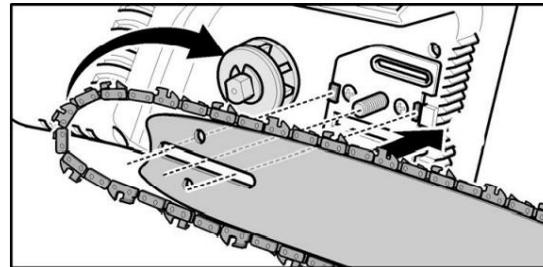


- Turn the chain tensioning wheel clockwise to guide bolt on the backside of the chainsaw to left as far as possible.
- Place saw chain around the guide bar starting on the upper part of the rail.

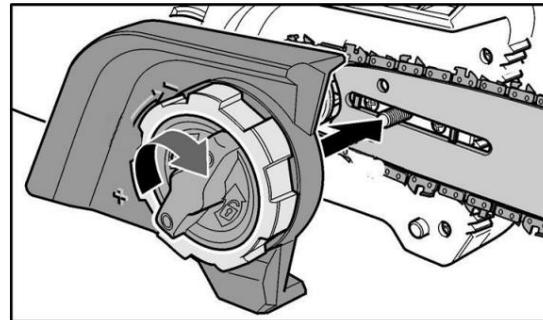
- Slide the chain in the slot around the guide bar. When attaching the chain, ensure that it is in the correct running direction.



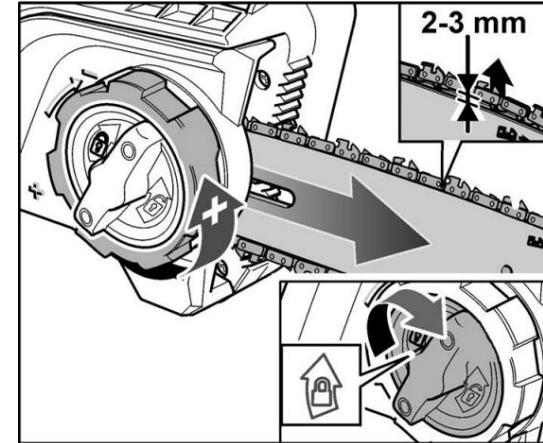
- Place elongated hole of the guide bar on the stud bolt onto the chain saw.
- Place the saw chain around the chain wheel.



- Attach the chain guard and tighten the handwheel slightly.



- Tighten the chain tensioning wheel anti-clockwise to the chain. The saw chain must not sag, but it should be possible to pull it 2-3



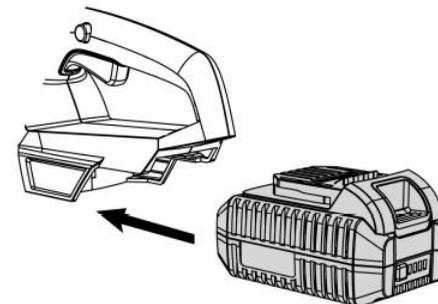
millimeters off the saw rail in the middle of the saw rail.

- Tighten the handwheel to attach the guide bar and the cover.
- Turn the saw chain by hand to check that it runs perfectly. It must slide freely in the rail.

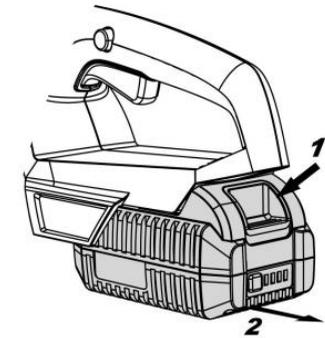
NOTE: Check and re-adjust the tension of a new chain after working for a few minutes. Switch the motor off, remove the battery and actuate the chain brake.

Inserting/Replacing the battery

- Charging the battery as described in the user manual of the charger.
- Press the charged battery into the power tool until it clicks into place.

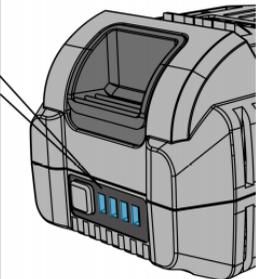
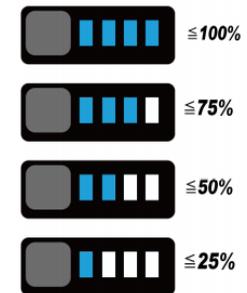


- To remove, press the release button (1) and pull out the battery (2)



Battery state of charge

- Press the button to check the state of charge at the state of charge indicator LED



The indicator goes out after the 3 seconds. If the LED lights red, battery must be recharged. If the LED is not light up, the battery must be recharges. If the LED not lights up after the button is pressed, the battery must be replaced.

CAUTION: Protect the battery contacts when the battery is not being used. Loose metal parts may short-circuit the contacts – Explosion and fire hazard!

Chain Brake

WARNING: Before using the chain saw, always check that the brake is in perfect working order. Otherwise, do not use the chain saw and have it repaired by a qualified technician or a service center.

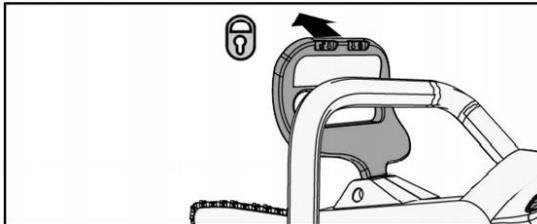
The chain saw features a safety chain brake which stops the chain brake which stops the chain within a fraction of a second in the event of a kickback.

If a kickback occurs, the chain brake is automatically actuated by touching the hand guard with your left hand.

Therefore, always hold the chain saw firmly with both hands.

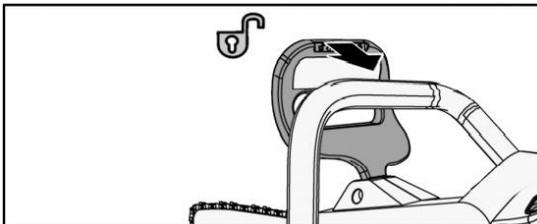
Manually activating the chain brake

- Tilt the hand guard towards the guide bar tip



Loosening the chain brake

- Pull the hand guard towards the handlebar.



Checking the Chain Brake

- Place the chain saw on a secure surface.
- Loosen the chain brake.
- Hold the chain saw with both hands.
- Switch the chain saw on. The saw chain runs.
- Tilt the hand guard towards the saw rail tip.

The chain must stop immediately!

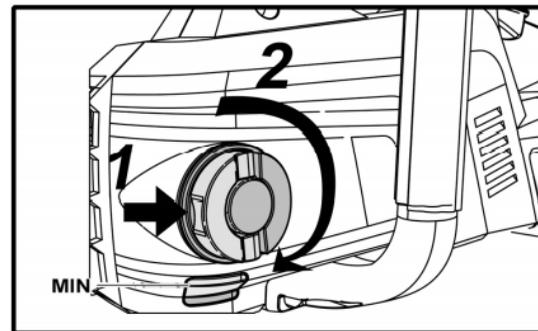
Otherwise, do not use the chain saw and have it repaired by a qualified technician or a service center.

- After work, regularly remove sawdust and saw waste from the visible mechanisms of the chain brake.

Lubricating the chain

CAUTION: The unit must be operated with adequate chain lubricating oil only. Inadequate lubrication will reduce the service life of the power tool.

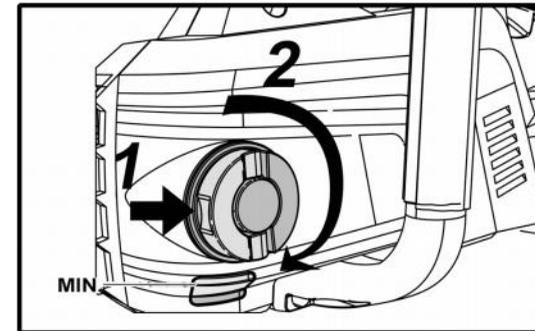
- Check the amount of oil on the oil level indicator.



Topping up the chain oil

CAUTION:

- Fill the unit only with an environmentally compatible quality chain and bar lubricant (according to RAL-UZ48).
- Do not use waste oil. Renewed contact with waste oil can cause skin cancer. Waste oil is environmentally harmful. Waste oil does not have the necessary lubricating properties and is unsuitable for chain lubrication.
- An oil other than the one recommended may damage the rail, the chain and the lubricating system.
- Ensure that dirt does not get into the oil tank
- Avoid spilling oil. Always wipe up any spilled oil.
- Check on the transparent oil level indicator, whether there is still adequate chain oil for lubrication.



- Flip up the oil cap and turn it clockwise. Before opening, clean tank cap and inlet nozzle if required.
- Carefully pour in the chain lubricating oil until it reaches the upper mark on the oil level indicator.
- Tighten the oil tank cap by hand.

- Check the chain oil level even during operation and top up with chain oil if required.

Checking the chain lubrication

- Start the unit (see section "Switching on/ off the power tool").
- Hold running saw chain for some time approx. 15 cm above a suitable surface. If there is adequate chain lubrication, the oil which is ejected by the saw chain will form a light trail.

Switching on/off the power tool

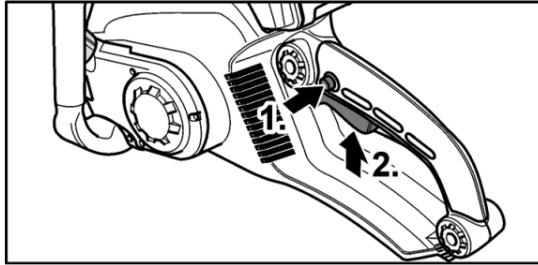
Switching on

WARNING: Make certain that the saw chain has not yet been positioned for cutting and is not touching any other objects. Risk of injury!

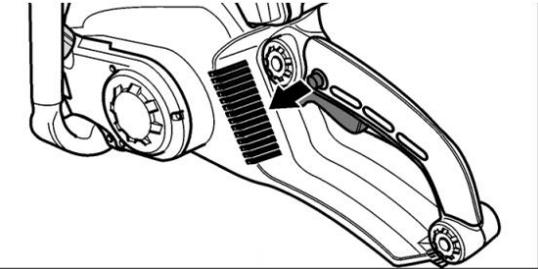
- Hold the chain saw firmly with both hands and ensure that there are no people (particularly children) or animals in the immediate vicinity.
- Ensure that the chain brake is released before starting the chain saw. To do this, pull the hand guard back towards the handlebar.



- Press the release button and hold down (1).
- Press the rear On/Off switch (2). The saw chain runs.

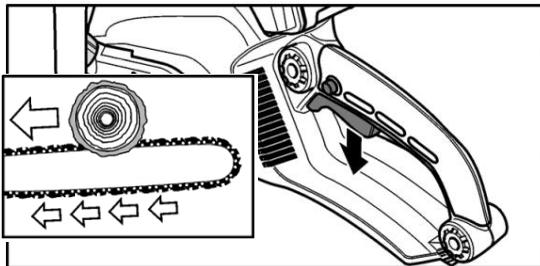


- Release the release button again.



Switching off

- Release the On/Off switch.



Using the device

WARNING: Before using the power tool, familiarize yourself thoroughly with the sawing technique of chain saws (see section “Basic working technique”). Risk of injury!

Never allow children to operate the chain saw. Allow no person to use this chain saw who has not read this user manual or received adequate instructions for the safe and proper use of this chain saw.

We recommend attending suitable training courses. The information listed here is only additional!

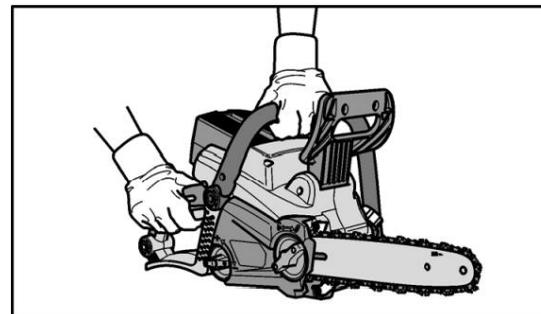
Before each use

- Check that all parts of the power tool are present, firmly attached and undamaged.
- Check that the chain tension is correct.
- Check that the chain brake functions.
- Check the chain lubrication.
- Check that there are no leaks.

Correct posture

Risk of injury:

- Never work on unstable ground
- Never work above shoulder height!
- Never work while standing on a ladder!
- Do not bend too far forwards when working!
- Use the power tool only when the weather conditions and terrain are favorable!
- Stand with both legs firmly on the ground.
- Beware of obstructions in the working area.
- When working, always hold the power tool with both hands!
- Hold the power tool:
 - with the left hand on the hand grip.
 - with the right hand on the handle.
 - in a balanced position with your feet firmly on the ground.



This is how to use the saw correctly!

- Look over the working area and remove any obstructions.
- Before starting work, check the safety of the power tool (see “Before each use”).
- Pick up the power tool in both hands as specified.
- Switch the chain saw on before starting the cut.
- Apply a uniform pressure to the unit, however not excessive force.
- If possible, place the unit's tree claw on the branch which is to be sawn.

After use

Risk of injury!

Always switch the motor off before you put the power tool down! When the On/Off switch is released, the saw chain continue running briefly.

- Stop the engine.
- Wait until all rotating parts have come to a standstill.
- Remove the battery.
- Place sheath on cutting mechanism.
- Activate chain brake.
- Leave power tool to cool down.

Basic working technique

Risk of injury!

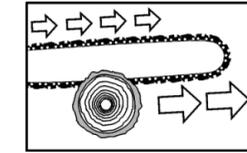
This section deals with the basic working technique when handling the power tool. The information given here does not replace the extensive training and experience of a specialist.

Avoid any work for which you are not adequately qualified! Imprudent handling of the power tool may result in

extremely serious to fatal injuries!

Sawing technique

Pull stroke sawing

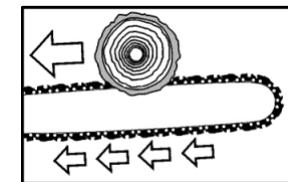


With this technique the underside of the saw rail saws from top to bottom.

The saw chain pushes the power tool forwards away from the user. The front edge of the power tool forms a support which absorbs the forces which occur when sawing on the tree trunk.

In pull stroke sawing the user has much more control over the power tool and can better avoid kickbacks. Therefore, this sawing technique should be used preferably.

Push stroke sawing



With this technique the upper side of the saw rail saws from bottom to top.

The saw chain pushes the power tool backwards towards the user.

WARNING!

If the saw rail jams, the power tool may be thrown back towards the user with great force. If the user does not use his physical strength to compensate for the force of the saw chain pushing backwards, there is a risk that only the tip of the saw rail will make contact with the wood and cause a kickback. **Risk of death or extremely severe injuries!**

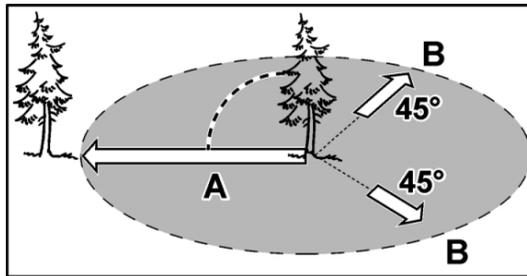
Felling a tree

Risk of injury!

Felling and limbing work may be performed by trained persons only! There is a risk of life-threatening injuries!

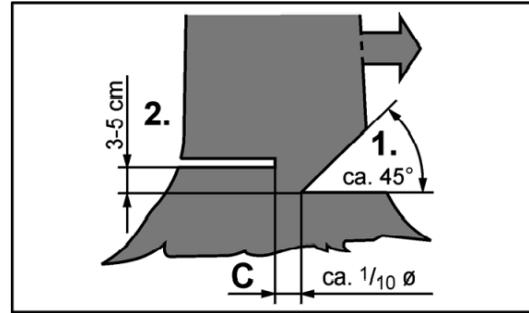
Before starting felling work, ensure that:

- there are no unauthorized persons and no animals within the fall area (A) of the tree;
- there is an obstacle-free escape route for all those involved. People withdraw (B) at an angle opposite the direction of fall
- the area around the trunk is free of obstacles (risk of tripping!)
- the next workplace is at least two and a half tree lengths away. Before felling the tree, check the direction in which the tree will fall and ensure that there are neither objects nor persons or animals within a distance of 2½ tree lengths.



A tree is felled in two stages:

- Notch the trunk by approx. one third of its diameter on the side of the direction of fall (1).
- On the opposite side make the felling cut (2) which must be slightly higher than the notch (approx. 3–5 cm).

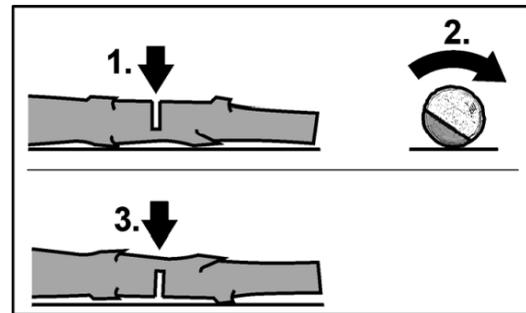


Risk of injury!

Never saw the tree trunk all the way through. The area (C) is used as a “hinge” and provides a defined direction of fall. When felling, stand only at the side of the tree to be felled! There is a risk of life-threatening injuries!

Trunks lying flat on the ground

- Cut halfway into the trunk, then turn around and saw through from the opposite side.



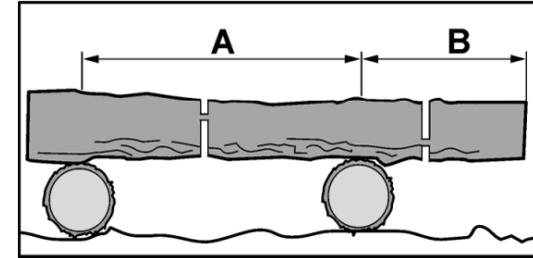
Damage to power tool!

When sawing through the trunk, ensure that the saw rail does not touch the ground!

Supported trunks

We recommend supporting trunks, which are to be sawn through, on sawhorses. If this is not possible, the trunk should be raised and supported with the aid of the supporting branches or via support blocks.

- In area A first cut approx. one third of the trunk diameter from top to bottom, then complete the cut from bottom to top.
- In area B first cut approx. one third of the trunk diameter from bottom to top, then cut through from the top.

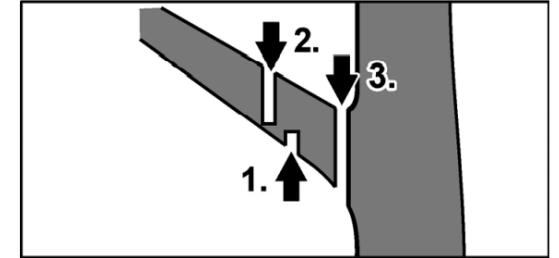


Risk of injury!

Do not saw trunks which are under tension! Splintering wood or a jammed saw rail may result in extremely serious injuries!

Removing branches

- Always work on the side opposite the branch in question.
- Start at the bottom of the trunk and work upwards.
- 10–15 cm from the base of the branch saw upwards into the branch 1/3 of the branch diameter (1).
- A little further up the branch saw through the branch from top to bottom (2).
- Make a cut close to the trunk (3). Make the cut from top to bottom.



- When limbing trunks lying flat on the ground, first always saw off the branches pointing upwards. Do not cut through supporting branches until the trunk has been sawn into lengths.

Risk of injury!

Branches which are supported or under tension may wedge the saw chain in the wood!

Maintenance and care

WARNING: Before performing any work on the garden tool, remove the battery. Risk of injury by the sharp cutters! Wear protective gloves.

In the interest of your own safety!

Perform only the maintenance work described here yourself. All other work, in particular motor maintenance and repairs, must be performed by a trained specialist. Improper work may damage the power tool and also result in injuries. Have power tool inspected once a year at a service center.

Overview of cleaning and maintenance

After using the power tool

- Clean the unit.

Regularly, depending on the application conditions:

- Tension the saw chain.
- Clean oil guide groove in the saw rail.

- Regrind saw chain.
- Check saw chain oil level, top up if required.

Cleaning

WARNING: *Do not use water or liquid detergents.*

CAUTION: *Clean the unit after every use. Failure to clean the unit can damage the materials and cause malfunctions.*

- Clean the unit with a damp cloth and a soft brush.
- Remove the chain cover, and then use a soft brush to remove debris from the saw rail, saw chain, chain wheel and chain cover.
- Keep the ventilation slits clean and dust-free.

Servicing

Tensioning the saw chain

The saw chain must not sag, but it should be possible to pull it 2-4 millimeters off the saw rail in the middle of the saw rail.

- Unscrew the handwheel anti-clockwise until the saw rail can be moved by hand.
- Turn the chain tensioning wheel on anti-clockwise to tension the chain.
- Turn the saw chain by hand to check that it runs perfectly. It must slide freely in the rail.
- Tighten the handwheel to attach the rail and the cover.

NOTE: *Check and re-adjust the tension of a new chain after the working for a few minutes. Switch the motor off, remove the battery and actuate the chain brake.*

Cleaning oil guide groove in the saw rail

- Remove saw rail.
- Remove dirt from the oil guide groove using a suitable tool. Use a plastic spatula, not a steel tool!
- Re-attach saw rail.

Regrinding saw chain

Special tools are required to sharpen the saw chain and guarantee that the blades of the chain are sharpened at the correct angle and to the correct depth. We recommend having the saw chain reground by specialist.

Storage

- Store the unit in a dry and frost-free place (10-25 °C).
- Store the battery and the unit separately.
- Charge the battery before storing the unit in winter.
- For a prolonged period of non-use always drain the chain lubricating oil out the power tool.
- Place sheath on cutting mechanism.
- Keep the unit, in particular its plastic components, away from brake fluids, petrol, petroleum products, penetrating oil, etc. They contain chemical substances which may damage, attack or destroy the plastic components of the unit.
- Fertilizers and other garden chemicals contain substances which may have a highly corrosive effect on the metal parts of the unit. Therefore, do not store your unit near these substances.

Repairs

Check the unit for damage. Repairs may be carried out by an authorized customer service center only.

Disposal information

WARNING: Render redundant garden tools unusable:

- mains operated tool by removing the power cord,
- battery operated tool by removing the battery.

EU countries only: Do not throw electric power tools into the household waste! In accordance with the European Directive 2012/19/EC on Waste Electrical and Electronic Equipment and transposition into national law used electric power tools must be collected separately and recycled in an environmentally friendly manner.

Recycling raw materials instead of waste disposal.

Device, accessories and packaging should be recycled in an environmentally friendly manner. Plastic parts are identified for recycling according to material type.

WARNING: *Do not throw accumulators/batteries into the household waste, fire or water. Do not open disused batteries.*

Accumulators/batteries should be collected, recycled or disposed of in an environmentally friendly manner.

EU countries only: In accordance with Directive 2006/66/EC defective or used batteries must be recycled.

NOTE: *Please ask your dealer about disposal options!*

Guarantee

This product has been manufactured to the highest quality standards. When a new product is purchased, it is guaranteed a 24-month (chainsaw) and 12-month (battery) manufacturer's warranty which comes into force on the date the product was purchased.

The guarantee covers only defects which can be attributed to a material and/or production fault as well as non-performance of warranted characteristics.

When making a claim under the guarantee, enclose the original sales receipt with purchase date. Repairs under the guarantee may be carried out only by workshops or service centers authorized by the manufacturer.

A claim may be made under the guarantee only if the power tool has been used as intended.

This warranty is invalid where defects are caused by or result from:

- misuse, abuse or neglect;
- commercial use (industry, craft, rental)
- repairs attempted by unauthorized repair centers
- damage caused by external effects, foreign objects, substances or accidents.