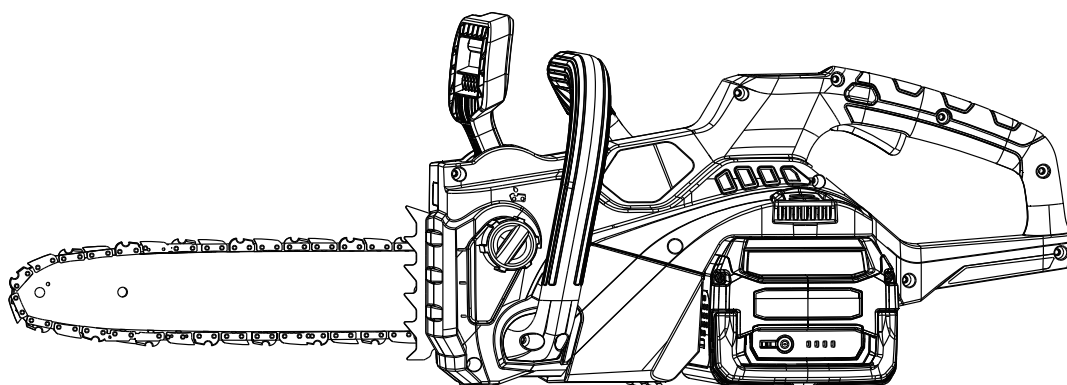


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# Operation Manual



## 62V Chainsaw MODEL # E6216CS



### SAVE THESE INSTRUCTIONS

**DO NOT RETURN THIS UNIT TO THE RETAILER. PROOF OF PURCHASE WILL BE REQUIRED FOR WARRANTY SERVICE.**

**For assistance regarding the assembly, operation or maintenance of the unit, please call 1-833-871-4330 (in the United States) or contact [Support@PioneerPowerEquipment.com](mailto:Support@PioneerPowerEquipment.com).**

Warranty service is available through an authorized Pioneer Power Equipment dealer. To locate a dealer in your area, please call the number listed above or visit [PioneerPowerEquipment.com/dealerlocator](http://PioneerPowerEquipment.com/dealerlocator).

Service on this unit, both within and after the warranty period, should only be performed by an authorized dealer. When servicing, use only identical replacement parts.

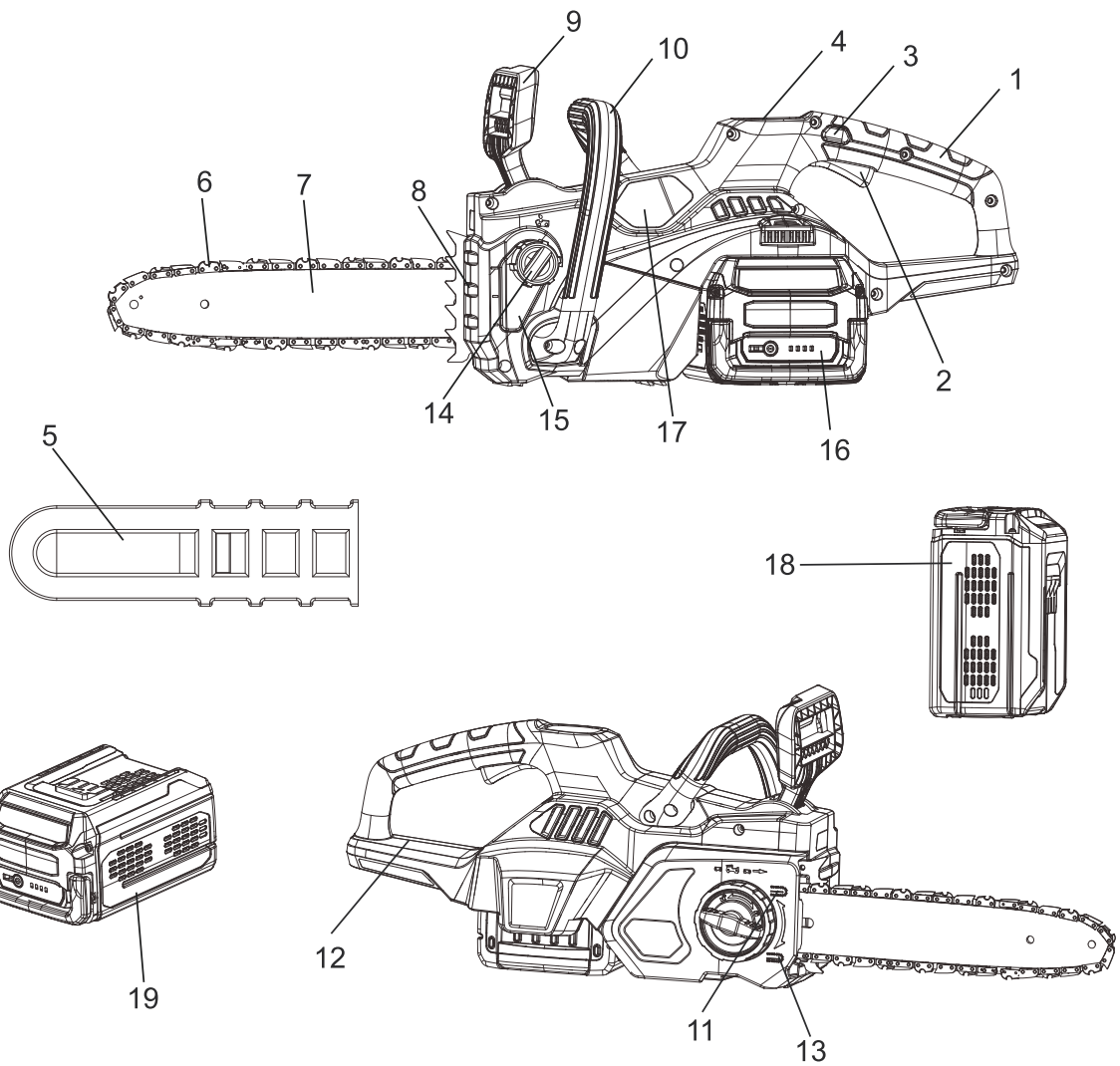
All information, illustrations, and specifications in the manual are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice. The product may vary slightly from the illustrations contained in this manual.

**IMPORTANT: Read this manual thoroughly before using this product. Follow all instructions.**

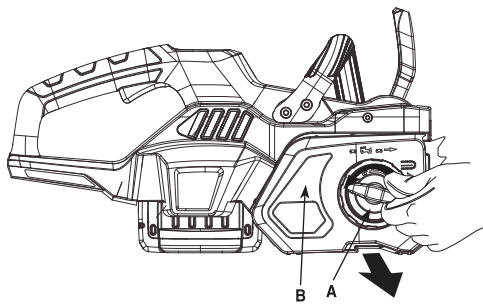
**NOTE: Please refer to seller if there is any query.**

It is essential that you read the instructions in this manual before mounting and operating this machine.

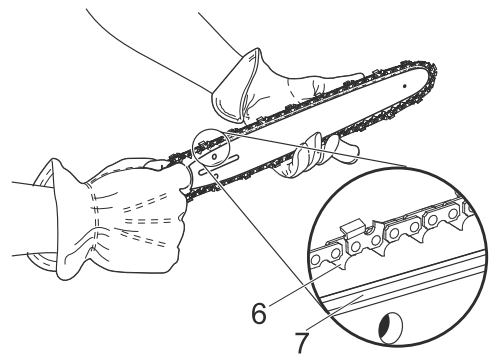
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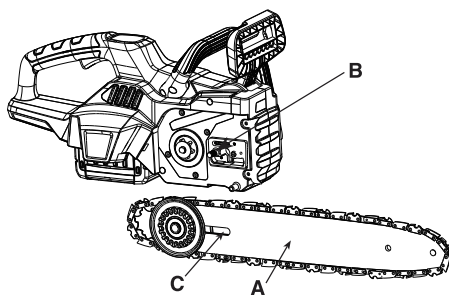
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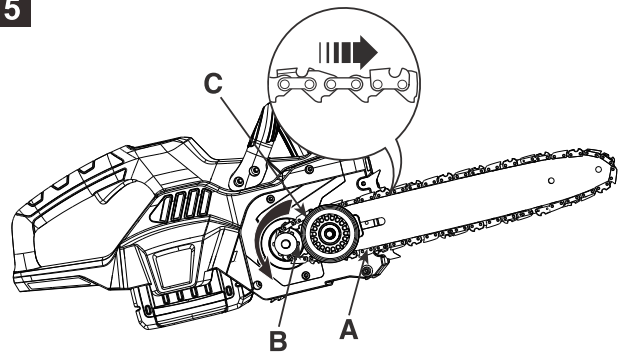
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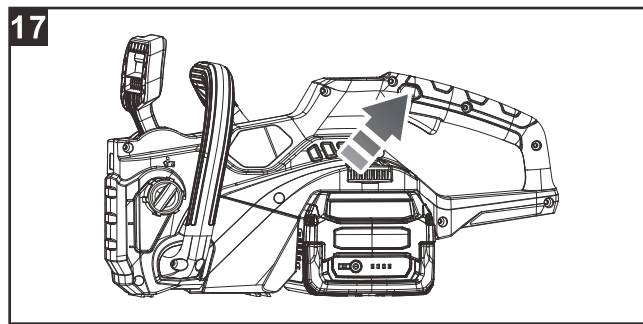
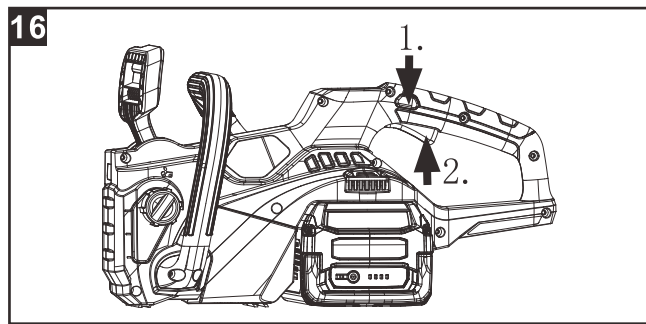
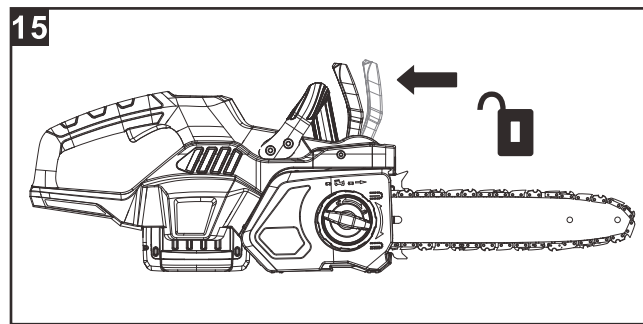
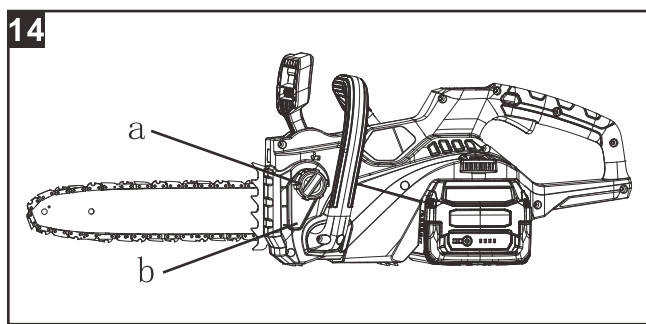
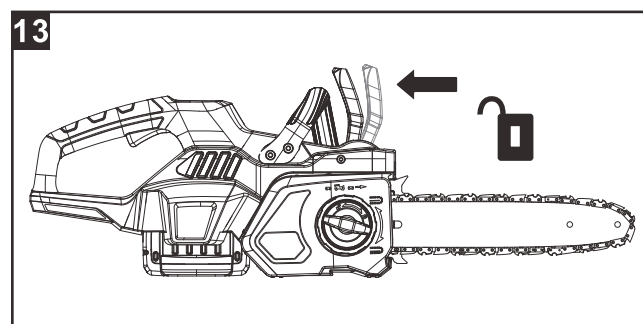
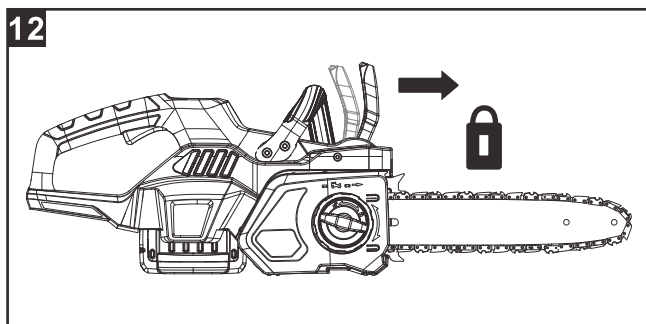
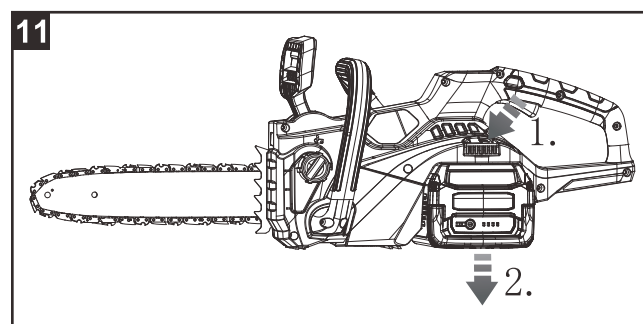
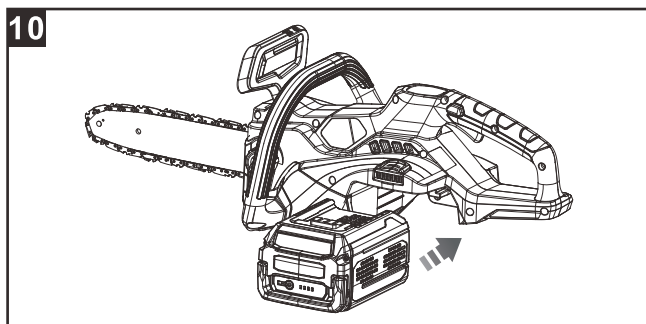
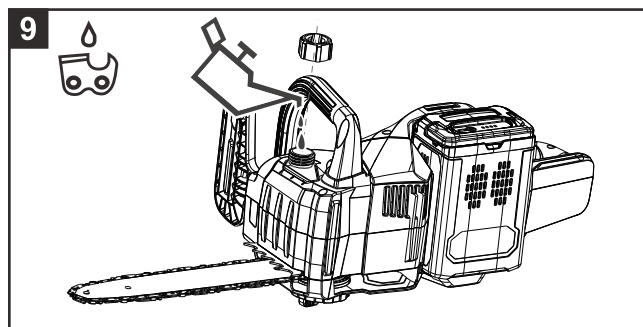
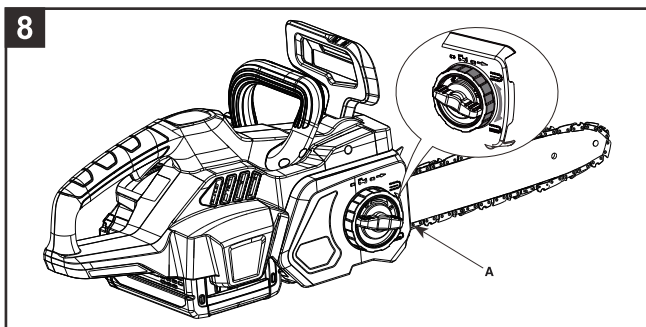
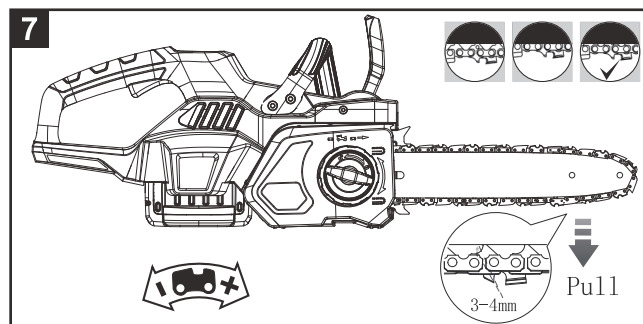
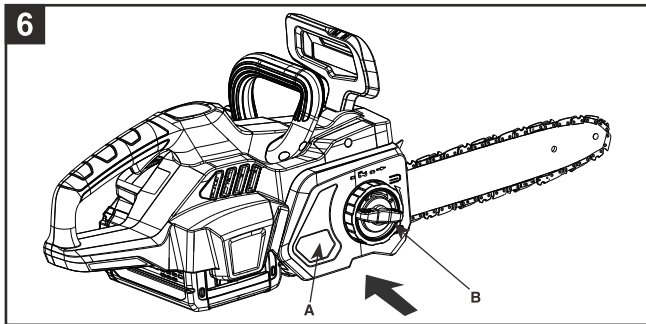


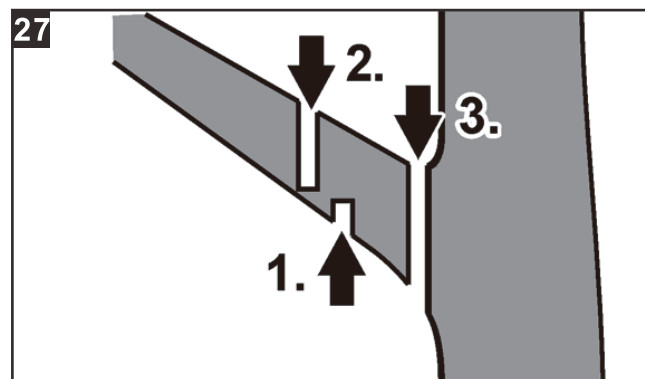
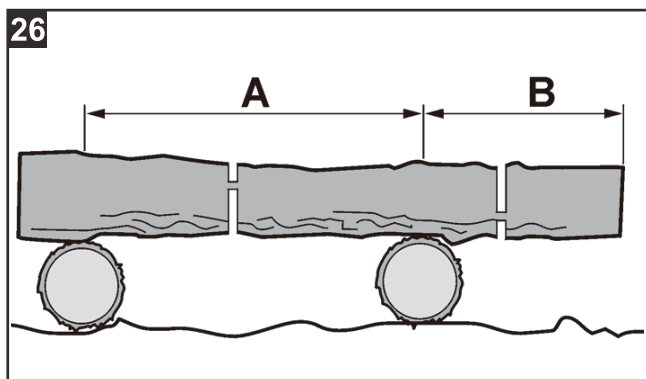
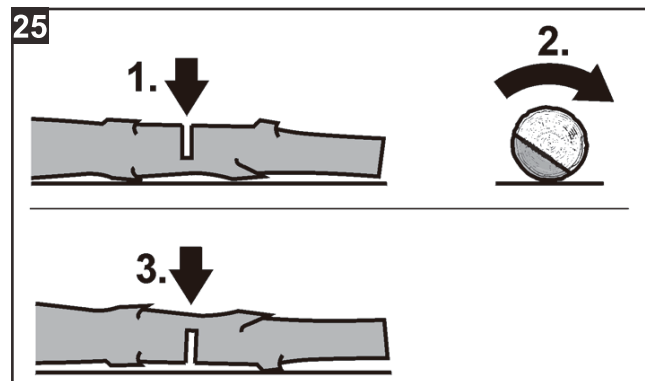
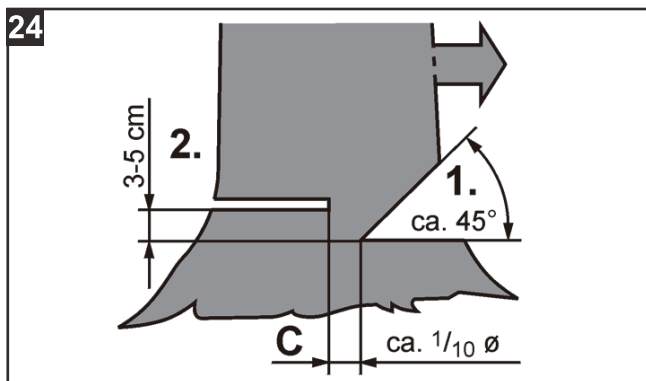
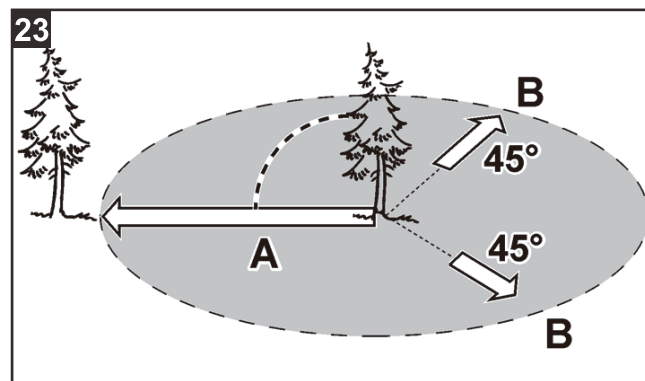
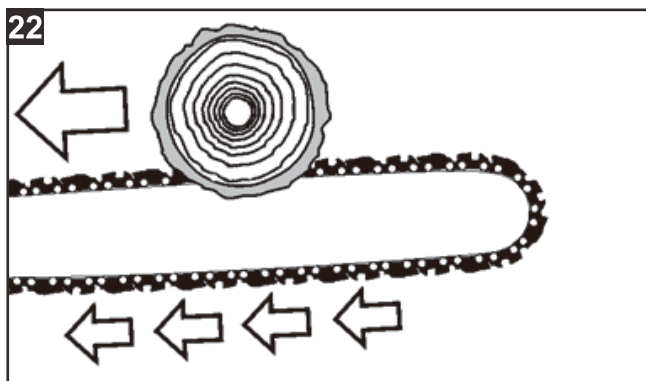
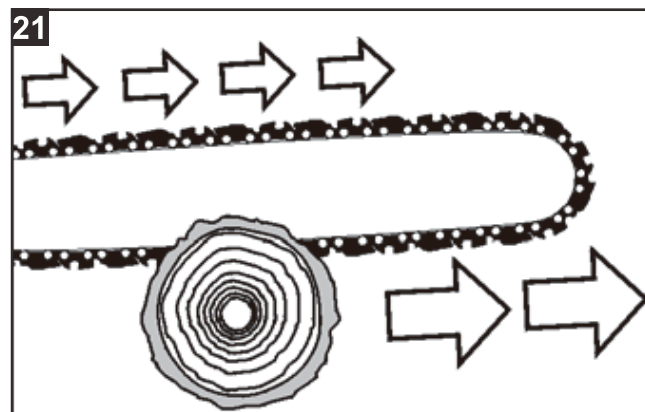
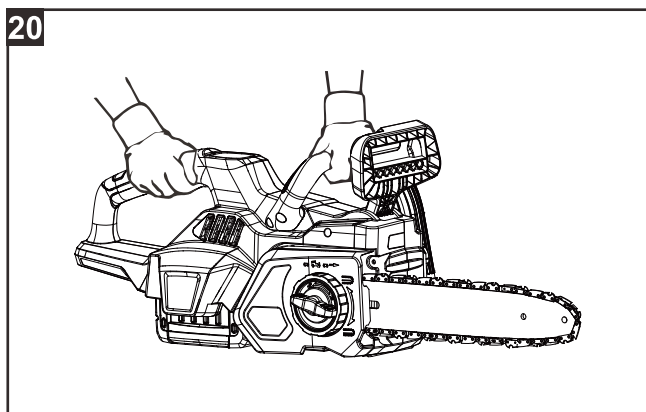
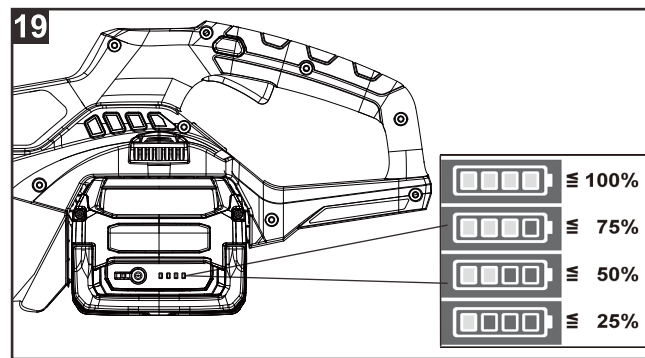
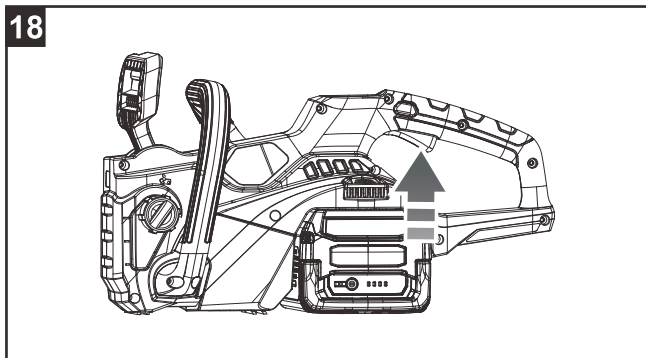
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## SYMBOLS

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

| SYMBOLS                                                                             | DESIGNATION                | EXPLANATION                                                                                                             |
|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| V                                                                                   | Volts                      | Voltage                                                                                                                 |
| A                                                                                   | Amperes                    | Current                                                                                                                 |
| Hz                                                                                  | Hertz                      | Frequency (cycles per second)                                                                                           |
| W                                                                                   | Watts                      | Power                                                                                                                   |
| min                                                                                 | Minutes                    | Time                                                                                                                    |
| ---                                                                                 | Alternating Current        | Type of current                                                                                                         |
| no                                                                                  | No Load Speed              | Rational speed, at no load                                                                                              |
| /min                                                                                | Per Minute                 | Revolutions, strokes, surface speed, orbits etc., per minute                                                            |
|    | Safety Alert               | Precautions that involve your safety.                                                                                   |
|    | Wet Conditions Alert       | Do not expose to rain or use in damp locations                                                                          |
|    | Read The Operator's Manual | To reduce the risk of injury user must read and understand operator's manual before using this product.                 |
|   | Eye and Hearing Protection | Wear eye protection that is marked to comply with ANSI Z87.1 as well as hearing protection when operating this product. |
|  | Gloves                     | Wear non-slip, heavy-duty protective gloves when handling the chain saw and the blade.                                  |
|  | Safety Footwear            | Wear non-slip safety footwear when using this equipment.                                                                |
|  | Kickback                   | Tip contact can cause the guide bar to move suddenly upward and backward, which can cause serious injury.               |
|  | Operate With Two Hands     | Hold and operate the saw properly with both hands.                                                                      |
|  | One Handed                 | Do not operate the saw using only one hand.                                                                             |
|  | Bar Nose Contact           | Avoid bar nose contact.                                                                                                 |



## SYMBOLS

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The following signal words and meanings are intended to explain the levels of risk associated with this product.

| SYMBOL | SIGNAL  | MEANING                                                                                                      |
|--------|---------|--------------------------------------------------------------------------------------------------------------|
|        | DANGER  | Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.  |
|        | WARNING | Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury. |
|        | CAUTION | Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.  |
|        | CAUTION | (Without Safety Alert Symbol) Indicates a situation that may result in property damage.                      |



## WARNING

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- To avoid serious personal injury, do not attempt to use this product until you have read this Owner's Manual thoroughly and understand it completely. If you do not understand the warnings and instructions in this Owner's Manual, do not use this product.
-  The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before operating a power tool, always wear safety goggles, safety glasses with side shields, or a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection that is marked to comply with ANSI Z87.1.

## 1. Introduction

### DEAR CUSTOMER,

We hope your new tool brings you much enjoyment and success.

### NOTE:

According to the applicable product liability laws, the manufacturer of the device does not assume liability for damages to the product or damages caused by the product that occurs due to:

- Improper handling,
- Non-compliance of the operating instructions,
- Repairs by third parties, not by authorized service technicians,
- Installation and replacement of non-original spare parts,
- Application other than specified,
- A breakdown of the electrical system that occurs due to the non-compliance of the electric regulations and VDE regulations 0100, DIN 57113 / VDE0113.

### WE RECOMMEND:

Read through the complete text in the operating instructions before installing and commissioning the device. The operating instructions are intended to help the user to become familiar with the machine and take advantage of its application possibilities in accordance with the recommendations. The operating instructions contain important information on how to operate the machine safely, professionally and economically, how to avoid danger, costly repairs, reduce downtimes and how to increase reliability and service life of the machine.

In addition to the safety regulations in the operating instructions, you have to meet the applicable regulations that apply for the operation of the machine in your country. Keep the operating instructions package with the machine at all times and store it in a plastic cover to protect it from dirt and moisture. Read the instruction manual each time before operating the machine and carefully follow its information. The machine can only be operated by persons who were instructed concerning the operation of the machine and who are informed about the associated dangers. The minimum age requirement must be complied with.

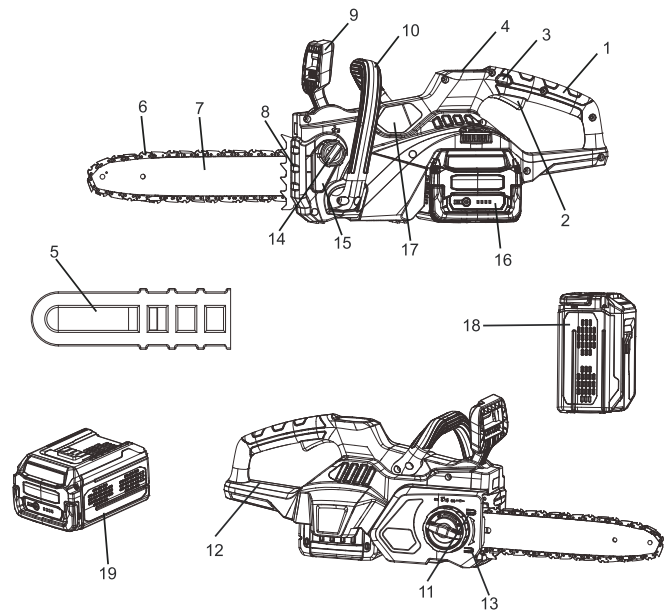
In addition to the safety requirements in these operating instructions and your country's applicable regulations, you should observe the generally recognized technical rules concerning the operation of wood-working machines.

## 2. Layout items supplied (Fig. 1)

1. Rear handle
2. On/off switch
3. Switch lock
4. Battery slot
5. Protective cover
6. Saw chain
7. Guide bar
8. Claw stop
9. Hand guard/chain brake
10. Bow-type handle
11. Chain tensioning wheel
12. Chain cover
13. Side cover screw nut
14. Oil tank plug
15. Oil tank with level indicator
16. Housing
17. Ventilation openings
18. Battery\*
19. Charging unit\*
20. Socket wrench

## 3. Items supplied

Fig. 1 (1-19)



\*not included

### Unpacking

- Open the packaging and remove the device carefully.
- Remove the packaging material as well as the packaging and transport bracing (if available).
- Check that the delivery is complete.
- Check the device and accessory parts for transport damage.
- If possible, store the packaging until the warranty period has expired.

### ATTENTION

**The device and packaging materials are not toys! Children must not be allowed to play with plastic bags, film and small parts! There is a risk of swallowing and suffocation!**

## 4. Proper use

This device is specifically intended for sawing wood and felling trees in private areas, unsuitable for sawing plastic, masonry or construction materials that are not made of wood, intended for use in accordance with the descriptions and safety instructions in this operating manual.

The equipment is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

## 5. 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 a 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 jewellery. Keep your hair and clothing 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.
- h) **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.

### 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 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.

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 and accessories. 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.

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, 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.

h) **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.

#### 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.

e) **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 risk of injury.

f) **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.

g) **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.

#### 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.

b) **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

#### Safety instructions for chain saws

##### 1) General chain saw safety warnings:

a) **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.

b) **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.

c) **Hold the chain saw 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 chain saw "live" and could give the operator an electric shock.

d) **Wear eye protection. Further protective equipment for hearing, head, hands, legs and feet is recommended.** Adequate protective equipment will reduce personal injury from flying debris or accidental contact with the saw chain.

e) **Do not operate a chain saw, on a ladder, from a rooftop, or any unstable support.** Operation of a chain saw in this manner could result in serious personal injury.

f) **Always keep proper footing and operate the chain saw only when standing on fixed, secure and level surface.** Slippery or unstable surfaces may cause a loss of balance or control of the chain saw.

g) **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.

h) **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.

i) **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.

ii)

**j) Follow instructions for lubricating, chain tensioning and changing the bar and chain.**

Improperly tensioned or lubricated chain may either break or increase the chance for kickback.

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

**l) Do not attempt to fell a tree until you have an understanding of the risks and how to avoid them.**

Serious injury could occur to the operator or bystanders while felling a tree.

**m) Do not operate a chain saw in a tree unless you have been specifically trained to do so.** Operation of a chain saw in a tree without proper training could increase the risk of serious personal injury.

**n) Follow all instructions when clearing jammed material, storing or servicing the chain saw.** Make sure the switch is off and the battery pack is removed. Unexpected actuation of the chain saw while clearing jammed material or servicing may result in serious personal injury

**2) 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 chain saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

- a) Maintain a firm grip, 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.
- b) 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.
- c) Only use replacement guide bars and saw chains specified by the manufacturer.** Incorrect replacement guide bars and saw chains may cause chain breakage and/or kickback.
- d) Follow the manufacturer's sharpening and**

**maintenance instructions for the saw chain.**

Decreasing the depth gauge height can lead to increased kickback.

**Additional safety instructions**

- **Familiarise yourself with the chainsaw sawing technique in detail before use.** Information can be found in specialist literature. We recommend attending a suitable training course.
- **This device is not designed to be operated by persons (including children) with impaired physical, sensory or mental capabilities, or who have insufficient experience and/or insufficient knowledge, unless they are being supervised by a person who is responsible for their safety or they are receiving instructions about how this device is to be used.** Children should not be left unattended, to ensure they do not play with the device.
- **Under the following conditions, switch the device off and remove the battery:**
  - if the device is left unattended;
  - before checking, cleaning or other work on the device;
  - if the device starts to vibrate excessively.
- **When sawing, make sure that no persons (in particular children) or animals are inside the working areas.**
- **Check the area in which the device is to be used and remove any stones and wires that could be caught and ejected by the chainsaw, to avoid any danger to persons and device wear.**
- **Ensure that the saw chain does not come into contact with the ground or other objects.**
- **Wait until the electrical tool has come to a standstill before setting it down.**
- **During interruptions to work, never leave the device unattended and store it in a safe location.**
- **Always switch off the chainsaw when transporting it to another site of work.**
- **Ensure that all protective equipment and handles are fitted before using the device. Never attempt to put a device into operation if it is not fully assembled, or if unapproved modifications have been made to it.**
- **Only operate the device in the technical condition specified and as supplied by the manufacturer.** Any liability of the manufacturer for damages resulting from unauthorised changes to the device is excluded.
- **Spare parts must comply with the requirements specified by the manufacturer.** Therefore only use original spare parts or spare parts approved by the manufacturer. When replacing parts, please observe the installation instructions provided and remove the battery beforehand.
- **When working with the device, hold it firmly with both hands and hold it away from your body.** Before starting the device, make sure that the cutting device is not touching anything. Hold the device by the insulated surfaces of the handles because the cut-

ting device can come into contact with exposed live cables. Make sure the device is switched off before you insert the battery. The on/off switch and safety switch must not be locked.

### Other safety instructions

Keep children and other persons including animals in a safe distance when using the appliance. Minimum safe distance is 10 m.

Provide adequate lighting or good lighting conditions when working with the machine.

Wear suitable protective clothing such as sturdy shoes with non-slip sole, robust long trousers, gloves, safety glasses and hearing protection!

Do not wear loose clothing or jewels. Hair, clothing and gloves must be out of reach of moving parts as they could get caught by the rotating parts. Do not use the appliance when barefooted or in open sandals.

Electrical hazard , keep at least 10 m distance away from electrical power lines.

During appliance operation, it is necessary to take a safe and firm posture, especially when steps or a ladder are being used.

⚠ Be careful when going backwards – risk of tripping!

Immediately remove cut branches/knots from the work area to prevent injuries.

Walk! Do not run! As soon as a branch being cut off starts cracking and falling down, move to the side immediately and keep safe distance from the falling wood as it can hurl back up and cause injuries.

Switch the appliance immediately off and remove the replaceable battery from the appliance when the saw chain gets blocked. Remove the blocked object.

When working, keep the appliance firmly with both hands and with a distance from your body.

Before starting the device, ensure that the cutting unit is not touching anything.

Before starting the device, ensure that the cutting unit is not touching anything.

Make sure the appliance is off before inserting a battery. The ON/OFF switch and safety switch must not be locked.

⚠ Before using, check the tightness and proper seating of all screwed and socket joints and protective equipment and if all moving parts are moving smoothly.

⚠ It is strictly prohibited to demount, adjust and alienate the protective equipment on the machine or put other protective equipment on the machine.

⚠ Do not use the appliance if damaged or the safety equipment is defective. Replace any worn and damaged parts.

Do not use the device near flammable liquids or gases. Risk of fire and explosion in case of short circuit.

⚠ **Warning!** This electric tool generates an electromagnetic field during operation. This field can impair active or passive medical implants under certain conditions. In order to prevent the risk of serious or deadly injuries, we recommend that persons with medical implants consult with their physician and the manufacturer of the medical implant prior to operating the electric tool.

### Battery

Vapours may leak out in case of unauthorised use or when using a damaged accumulator. Bring fresh air and seek medical advice if experiencing difficulties. Vapours may irritate the respiratory system.

### ⚠ Risk of fire! Risk of explosion!

Never use damaged, defective or deformed accumulators. Never open or damage the accumulator or let it fall on the ground.

Never charge the battery in an environment with acids and easily flammable materials.

Protect the battery against heat and fire.

Battery to be used at the ambient temperatures between 10°C and +40°C only.

Never put the battery on heaters and do not expose it to strong sunlight for a long time.

After being subject to heavy load, let the battery cool down first.

Short circuit - do not bridge the accumulator contacts with metal parts.

The accumulator must be packaged (plastic bag, box) or accumulator contacts must be sealed up for accumulator disposal, transport or storage.

### Residual risks

Even when the device is used properly and all safety regulations are complied with, there still may be some residual risks.

- Cutting injury

- Hearing damage

A longer stay in the immediate vicinity of the running unit may cause hearing damage. Wear ear protectors!

- Damage to health arising from vibrations to hand and arms if the device is used for a long time or if the device is not guided and evaluated properly.

- Vibration dampening systems do not guarantee protection against Raynaud syndrome or carpal tunnel syndrome. For this reason, the condition of the fingers and the wrist must be thoroughly monitored in case of regular, continuous use of the device.

If symptoms of the illnesses indicated above occur, contact a doctor immediately. To reduce the risk of Raynaud syndrome, keep your hands warm while working and take breaks at regular intervals.

Despite the observance of the operating instructions there still may be some hidden residual risks.

## 6. Technical data

|                                                               |                       |
|---------------------------------------------------------------|-----------------------|
| Nominal voltage                                               | 62V DC                |
| Battery type                                                  | E6240B<br>E6280B      |
| Cutting Length                                                | 39 cm                 |
| Chain bar type                                                | 112329 K7 90 \ OREGON |
| Length of chain bar                                           | 16"(406mm)            |
| Saw chain type                                                | 90PX056X \ OREGON     |
| Chain Division                                                | (3/8"), 9.525 mm      |
| Chain Thickness                                               | (0.043"), 1.1 mm      |
| Number of drive links                                         | 56                    |
| Chain Speed Max                                               | 24 m/s                |
| Toothing sprocket                                             | 6 teeth x 9.525 mm    |
| Chain oil tank capacity                                       | 240 cm <sup>3</sup>   |
| Weight without bar, chain and battery                         | xxx kg                |
| Battery charge type                                           | E6225SC, E6255RC      |
| The charging temperature is between the range of 3°C to 57°C. |                       |
| Battery storage and use in ambient temperature 45°C max       |                       |

### Sound and vibration

Sound and vibration values were measured in accordance with ISO 22868.

|                                                    |                      |
|----------------------------------------------------|----------------------|
| <b>L<sub>PA</sub> sound pressure level</b>         | 93 dB(A)             |
| <b>L<sub>WA</sub> sound power level measured</b>   | 100.9 dB(A)          |
| <b>L<sub>WA</sub> sound power level guaranteed</b> | 104.9 dB(A)          |
| <b>K<sub>WA</sub> uncertainty</b>                  | 3 dB(A)              |
|                                                    |                      |
| <b>Vibration emission value a<sub>h</sub></b>      | 2.5 m/s <sup>2</sup> |
| <b>K uncertainty</b>                               | 1.5 m/s <sup>2</sup> |

### Wear ear-muffs.

The impact of noise can cause damage to hearing. Total vibration values (vector sum of three directions) determined in accordance with ISO 22867.

The specified vibration value was established in accordance with a standardized testing method. It may change according to how the electric equipment is used and may exceed the specified value in exceptional circumstances.

The specified vibration value can be used to compare the equipment with other electric power tools. The specified vibration value can be used for initial assessment of a harmful effect.

### Keep the noise emissions and vibrations to a minimum.

- Only use appliances which are in perfect working order.
- Service and clean the appliance regularly.
- Adapt your working style to suit the appliance.
- Do not overload the appliance.
- Have the appliance serviced whenever necessary.
- Switch the appliance off when it is not in use.
- Wear protective gloves.

## 7. Before starting the equipment

**Caution!** Do not fit the battery until the equipment has been fully assembled and all the settings have been actuated. Always wear protective gloves when working on the equipment to protect yourself against injury. Carefully unpack all parts and check that they are complete.

### Installation

#### Installing the guide bar and saw chain

#### ⚠ WARNING!

- The teeth of the saw chain are very sharp! Protective gloves must be worn during all work on the chain. Risk of injury!
- An incorrectly installed saw chain leads to uncontrolled cutting behaviour by the device! When fitting the chain, observe the prescribed running direction!
- Place the chainsaw on a level surface.

#### Fig.2:

- Use the tightening knob (A) and remove the chain guard (B) to access the drive pinion and bar seat.

#### Fig.3:

- Place the saw chain around the guide bar, starting at the top section of the bar. Insert the saw chain in the circumferential groove. **When inserting the chain, observe the correct running direction of the chain**

#### Fig.4

- Mount the bar (A) by inserting the stud bolt (B) in the groove (C) and push it towards the back of the machine body.

#### Fig.5

- Tilt the machine to make it easier to wind the chain around the drive sprocket. Mount the chain (A) around the drive sprocket (B) and along the bar guide (C) being careful to follow the sliding direction.

#### Fig.6

- Refit the guard (A), without fully tightening the nut or knob (B).

#### Fig.7

- Turn the chain tension adjuster screw to achieve the desired tension.

#### Fig.8

- Raise the bar and tighten the guard nut.

### NOTE

The tension of a new chain must be checked after a few minutes in operation, and adjusted if necessary. To do so switch the device off, remove the battery and apply the chain brake.

### Filling with chain oil

#### ⚠ CAUTION!

- Only add environmentally friendly, good quality chain lubricating oil (per RAL-UZ 48) to the chain saw.
- Do not add used oil. Used oil can cause skin cancer with extended and repeated skin contact, and is damaging to the environment! Used oil does not have the necessary lubricating characteristics and is unsuitable for chain lubrication.
- An oil other than the recommended oil can cause damage to the rail, chain and lubrication system.
- Make sure that no dirt gets into the oil tank.
- Avoid oil spillages. Always wipe up spilled oil.

#### Fig. 9

- Unscrew the oil tank cap (a).
- Carefully add the chain lubricating oil until it reaches the top mark on the oil level indicator (b). Oil tank capacity: max. 150 ml
- Screw the oil tank cap (a) on tightly by hand.

### Inserting/replacing the battery

#### (Fig. 10)

- Charge the battery as described in the operating manual for the charge unit.
- Press the charged battery into the electrical tool until it latches fully.

#### (Fig. 11)

To remove, press the unlock button (1) and remove the battery (2).

**⚠ CAUTION!** When not in use, protect the battery contacts. Loose metal parts could short-circuit the battery, which results in a risk of explosion and fire!

### Commissioning

#### Chain brake

##### ⚠ WARNING!

Always check that the chain brake is working properly before use. If not, do not use the chainsaw and have it repaired by a qualified specialist or a specialist workshop.

The chain saw is equipped with protective equipment activated by a chain brake, which brings the chain to a standstill within a fraction of a second in the event of kickback. With kickback, the chain brake will be triggered automatically through the contact of the hand guard with the left hand.

**Therefore, always hold the chainsaw tight in both hands.**

#### Manual activation of the chain brake (Fig.12)

- Tilt the hand guard in the direction of the guide bar tip.

#### Releasing the chain brake (Fig.13)

- Draw the hand guard in the direction of the bow-type handle.

### Checking the chain brake

- Set the chainsaw down on a firm surface.
- Release the chain brake.
- Hold the chainsaw tight in both hands.
- Switch the chainsaw on. The chainsaw starts running.
- Tilt the hand guard in the direction of the guide bar tip.  
**The chain must come to an immediate standstill!**  
If not, do not use the chainsaw and have it repaired by a qualified specialist or a specialist workshop.
- After work, regularly clean the visible mechanisms of the chain brake to remove chips and sawing residues.

### Chain lubrication

#### ⚠ CAUTION!

The device must only be operated with sufficient chain lubricating oil.

Insufficient lubrication reduces the service life of the device.

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

### Refilling the chain oil

#### ⚠ CAUTION!

- Only add environmentally friendly, good quality chain lubricating oil (per RAL-UZ 48) to the chain saw.
- Do not add used oil. Used oil can cause skin cancer with extended and repeated skin contact, and is damaging to the environment! Used oil does not have the necessary lubricating characteristics and is unsuitable for chain lubrication.
- An oil other than the recommended oil can cause damage to the rail, chain and lubrication system.
- Make sure that no dirt gets into the oil tank.
- Avoid oil spillages. Always wipe up spilled oil.

#### (Fig.14)

- Check the oil level indicator (b) to make sure sufficient chain oil is available for lubrication.
- Unscrew the oil tank cap (a). Before opening, clean the tank cover and filling nozzle if necessary.
- Carefully add the chain lubricating oil until it reaches the top mark on the oil level indicator (b).

### Checking the chain lubrication

- Start the device (see section "Switching on and off").
- Hold the running saw chain approx. 15 cm above a suitable surface for a short time. With sufficient chain lubrication, a light track will appear due to the oil sprayed from the saw chain.

### Switching on the device

#### ⚠ WARNING!

Make sure the saw chain is not yet applied to the cut and that no other objects are touched. Risk of injury!

- Hold the chainsaw firmly with both hands and make sure that no persons (in particular children) or animals are in the immediate vicinity.

- Make sure that the chain brake is released before starting the chainsaw. To do so, draw the hand guard back in the direction of the bow-type handle. (Fig.15)

**Fig.16:**

- Press and hold down the switch lock (1).
- Press the on/off switch (2). The chainsaw starts running.

**Fig.17:**

- Release the switch lock again.

**Switching off the device**

- Release the on/off switch. (Fig.18)

**Displaying the charge level**

- By pressing the button on the battery it is possible to check the charge level with the battery charge indicator LED. (Fig.19)

The light goes out after 5 seconds. If the LED flashes, the battery must be charged. If no LED lights up when the button is pressed, the battery is defective and must be replaced.

## 8. Operation

Please note that the statutory regulations governing noise abatement may differ from one location to another.

Make sure the chain saw is in a correct and prescribed working position before starting the motor.

**⚠ ATTENTION!**

**Do not operate the chainsaw with a defective or badly worn cutting device.**

**⚠ WARNING!**

**Familiarise yourself with the chainsaw sawing technique in detail before use (see “Basic working technique”).**

**Risk of injury!**

**Never allow children to operate the chainsaw. Do not allow persons to use the chainsaw, if they have not read the operating manual or received appropriate instructions for the safe and correct use of the chainsaw.**

We recommend attending a suitable training course. The information provided here is for supplementary purposes only!

**Before every use**

- Check all parts are secure and inspect for visible defects.
- Check the device for correct chain tension.
- Test the function of the chain brake.
- Check chain lubrication.
- Check for any leaks.

**Holding the device correctly**

**⚠ Risk of injury!**

- Never work on unstable ground!
- Never work above shoulder height!
- Never work when standing on ladders!
- Do not bend too far when working!
- Only use the device when the weather and terrain conditions are favourable!
- Stand with both legs firmly on the ground.
- Be aware of obstacles in the working area.
- During work, always hold the device tight in both hands!
- Hold the device (Fig. 20):
  - with the left hand on the bow-type handle.
  - with the left hand on the handle.
  - whilst balanced in a stable stance.

**How to saw correctly!**

- Scan the working area and remove any interfering objects.
- At the start of work, check that the device is safe.
- Hold the device in both hands as prescribed.
- Switch on the chainsaw before applying it to the cut.
- Exert regular pressure on the device and do not apply excessive force.
- If possible, apply the device to the branch you wish to saw with the claw stop.

**⚠ ATTENTION!**

If the cutting device touches a foreign body, or the operating noise intensifies, or the electrical device vibrates unusually heavily, switch off the motor and allow the electrical device to come to a halt. Remove the battery and implement the following measures:

- check for damage
- check for loose parts and fasten all parts
- replace damaged parts with equivalent parts or have them repaired.

**After use**

**⚠ Risk of injury!**

Always switch off the motor before setting the device down! The saw chain will run on for a short time after the on/off switch is released.

- Stop the motor.
- Wait until all moving parts have come to a complete standstill.
- Remove battery.
- Place the protective sheath on the cutting unit.
- Apply chain brake.
- Leave the device to cool down.

**Basic working technique**

**⚠ Risk of injury!**

**This section examines the basic working technique for using the device. The information provided here does not replace the many years of training and experience of a specialist. Avoid any work that you are not adequately qualified for! Careless use of the device can lead to serious injuries and even death!**

### **Sawing technique**

#### **Pull sawing (Fig. 21)**

With this technique, sawing takes place with the underside of the guide bar from top to bottom.

The saw chain pulls the device forwards and away from the user. With this action, the front edge of the device forms a support, which absorbs the forces that arise on the tree trunk during sawing. With pull sawing, the user has significantly greater control over the device and is able to better avoid kickbacks. This sawing technique should therefore be used if possible.

#### **Push sawing (Fig. 22)**

With this technology, sawing takes place with the top side of the guide bar from bottom to top. The saw chain pushes the device backwards, towards the user.

#### **⚠ WARNING!**

If the guide bar tilts, the device may be jerked towards the user with great force. If the user does not balance the backward force of the saw chain with their body strength, there is a risk that only the tip of the guide bar will remain in contact with the wood and kickback will occur.

#### **Risk of death or serious injuries!**

### **Felling a tree**

#### **⚠ Risk of injury!**

Felling and branch removal work may only be performed by trained personnel! There is a risk of life-threatening injuries!

#### **Fig. 23**

Before starting felling work, make sure that:

- no bystanders or animals are in the felling area (A).
- a clear evacuation route, free of obstacles, is available to all participants. Withdrawal (B) takes place at an oblique angle to the felling direction.
- the area around the trunk is clear of obstacles (risk of tripping!).
- the nearest workplace is at least 2½ trunk lengths away. Before felling, check the felling direction of the tree and make sure that no obstacles, persons or animals are within a distance of 2½ tree lengths.

#### **Fig. 24**

Tree felling takes place in two steps:

- Saw a felling sink in the trunk of around one third of its diameter, on the side of the felling direction (1).
- On the opposite side (2) make the felling cut, which must be slightly higher than the felling sink (approx. 3–5 cm).

#### **⚠ Risk of injury!**

Never saw fully through the trunk. The area (C) serves as a “hinge” and ensures the correct felling direction. During felling, only stand to the side of the tree you intend to fell! There is a risk of life-threatening injuries!

### **Trunks lying flat on the ground (Fig. 25)**

- Cut around halfway through the trunk, then turn it over and saw through the other side.

### **⚠ Damage to the device!**

Ensure that the guide bar does not come into contact with the ground when sawing through a tree trunk!

### **Fallen trunks (Fig. 26)**

We recommend supporting trunks on a sawhorse when sawing through them. If this is not possible, the trunk should be lifted with the aid of supporting boughs or with support blocks and supported.

- In area A first cut around one third of the trunk diameter from top to bottom, and then make the subsequent cut from bottom to top.
- In area B first cut around one third of the trunk diameter from bottom to top, and then saw through from the top.

#### **⚠ Risk of injury!**

Do not saw trunks that are strained! Splitting wood or a tilted guide bar can result in serious injuries!

### **Removing branches (Fig. 27)**

- Always work on the side opposite the respective branch.
- Start at the bottom of the branch and work up.
- Saw into the branch 10–15 cm from the branch base from bottom to top, to 1/3 of the branch diameter (1).
- Saw through the branch slightly further out from top to bottom (2).
- Perform a cut tightly against the trunk (3). Make the cut from top to bottom.
- During delimbing always saw off the branches that project freely in the air first. Only lop off support limbs once the branches have been sawn along their length.

#### **⚠ Risk of injury!**

With branches that are supported or strained, the saw chain can wedge in the wood!

## **9. Cleaning and maintenance**

#### **⚠ WARNING!**

Always remove the battery from the device before all work on the electrical tool. Danger of injury due to the sharp cutting teeth! Wear safety gloves.

#### **⚠ In the interest of your safety!**

Only perform the maintenance work described here yourself. All other work - in particular motor maintenance and repairs - must be performed by a qualified specialist. Unprofessional work can lead to device damage and therefore also to injuries.

### **Cleaning and maintenance overview**

#### **After every use**

- Clean the device.

#### **Regularly, depending on the conditions of use**

- Retighten the saw chain.
- Clean guide bar oil guide groove.
- Sharpen the saw chain.
- Check the saw chain oil level, top up if necessary.

## Cleaning

### ⚠ WARNING!

Do not use water or liquid cleaning products.

### ⚠ CAUTION!

Clean the device after every use.

An unclean device will lead to material damage and malfunctions.

- Use a damp cloth and a soft brush to clean the device.
- Take off the chain cover and then remove deposits on the guide rail, saw chain, chain wheel and chain cover with a soft brush.
- Keep the ventilation slots clean and free of dust.

## Maintenance

### Re-tightening the saw chain

The saw chain must not sag, although it should be possible to pull it 1-2 millimetres away from the guide bar in the centre of the guide bar.

- Turn the handwheel anticlockwise, sufficiently that the guide bar can be moved by hand.
- Turn the chain tensioning wheel anticlockwise, so that the chain is tensioned.
- Turn the saw chain by hand, to check it runs freely. It must glide freely in the rail.
- Tighten the handwheel for fastening the rail and chain cover.

### NOTE

The tension of a new chain must be checked after a few minutes in operation, and adjusted if necessary. To do so switch the device off, remove the battery and apply the chain brake.

### Cleaning the guide bar oil guide groove

- Dismantle the guide bar.
- Clean the oil guide groove of dirt with a suitable tool. Use a plastic spatula, do not use steel tools!
- Refit the guide bar.

### Sharpening the saw chain

Special tools are required to sharpen the saw chain; these ensure that the chain cutting edges are sharpened at the correct angle and to the correct depth. We recommend having the saw chain sharpened by a specialist.

### Service information

Please note that the following parts of this product are subject to normal or natural wear and that the following parts are therefore also required for use as consumables.

Wear parts\*: Saw chain, guide rail, chain oil, carbon brushes, claw stop, chain trap, chain oil filter

\* Not necessarily included in the scope of delivery!

## 10. Storage

- Store the device in a dry and frost-free (10-25 °C) place.

- Store the battery and the device separately from each other.
- Charge the battery before storing it for the winter.
- In case of longer breaks between use, always drain the chain lubricating oil from the device.
- Place the protective sheath on the cutting unit.
- Keep the device, and its plastic components in particular, away from brake fluid, petrol, products containing oil, penetrating oil etc. They contain chemical substances that may damage or destroy the plastic parts of the device.
- Fertilisers and other garden chemicals contain substances which can have a heavily corrosive effect on metal parts. Do not store the device close to these substances.

## 11. Disposal and recycling



The equipment is supplied in packaging to prevent it from being damaged in transit. The raw materials in this packaging can be reused or recycled. The equipment and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste.

Ask your dealer or your local council.

### Old devices must not be disposed of with household waste!



This symbol indicates that this product must not be disposed of together with domestic waste in compliance with the Directive (2012/19/EU) pertaining to waste electrical and electronic equipment (WEEE). This product must be disposed of at a designated collection point. This can occur, for example, by handing it in at an authorised collecting point for the recycling of waste electrical and electronic equipment. Improper handling of waste equipment may have negative consequences for the environment and human health due to potentially hazardous substances that are often contained in electrical and electronic equipment. By properly disposing of this product, you are also contributing to the effective use of natural resources. You can obtain information on collection points for waste equipment from your municipal administration, public waste disposal authority, an authorised body for the disposal of waste electrical and electronic equipment or your waste disposal company.

### Batteries and rechargeable batteries do not belong in the household waste!



As the consumer you are required by law to bring all batteries and rechargeable batteries, regardless whether they contain harmful substances\* or not, to a collection point run by the local authority or to a retailer, so that they can be disposed of in an environmentally friendly manner.

\*labelled with: Cd = cadmium, Hg = mercury, Pb = lead

- Remove the batteries from the laser before disposing of the machine and the batteries.

## 12. Troubleshooting guide

| Fault                                               | Possible cause                         | Remedy                                                         |
|-----------------------------------------------------|----------------------------------------|----------------------------------------------------------------|
| The equipment does not work                         | Battery empty                          | Charge battery                                                 |
|                                                     | Battery is not correctly inserted      | Remove battery and insert again                                |
| Equipment operates intermittently                   | Loose connection (external)            | Consult a specialist workshop.                                 |
|                                                     | Loose connection (internal)            |                                                                |
|                                                     | ON/OFF switch defective                |                                                                |
| Saw chain is dry                                    | No oil in the tank                     | Top up with oil                                                |
|                                                     | Vent in the oil tank cap is blocked    | Clean the oil tank cap                                         |
|                                                     | Oil outlet is blocked                  | Clear the oil outlet                                           |
| Chain/guide bar is hot                              | No oil in the tank                     | Top up with oil                                                |
|                                                     | Vent in the oil tank cap is blocked    | Clean the oil tank cap                                         |
|                                                     | Oil outlet is blocked                  | Clear the oil outlet                                           |
|                                                     | Chain is blunt                         | Re-sharpen or replace the chain                                |
|                                                     | Chain is overtensioned                 | Check the chain tension                                        |
| Chainsaw judders, vibrates or does not saw properly | Chain is undertensioned                | Adjust the chain tension                                       |
|                                                     | Chain is blunt                         | Re-sharpen or replace the chain                                |
|                                                     | Chain is worn                          | Replace the chain                                              |
|                                                     | Saw teeth point in the wrong direction | Refit the chain with the teeth facing in the correct direction |