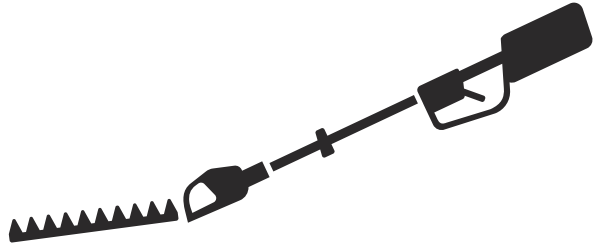


**Our associates will ensure the tool works properly before you leave the store. If you experience issues with the tool while completing your project, simply bring it back to the Tool Rental Center to get a replacement. If you purchase Damage Protection at the time of your rental, you are not responsible for repair costs for tools that break due to normal use.**

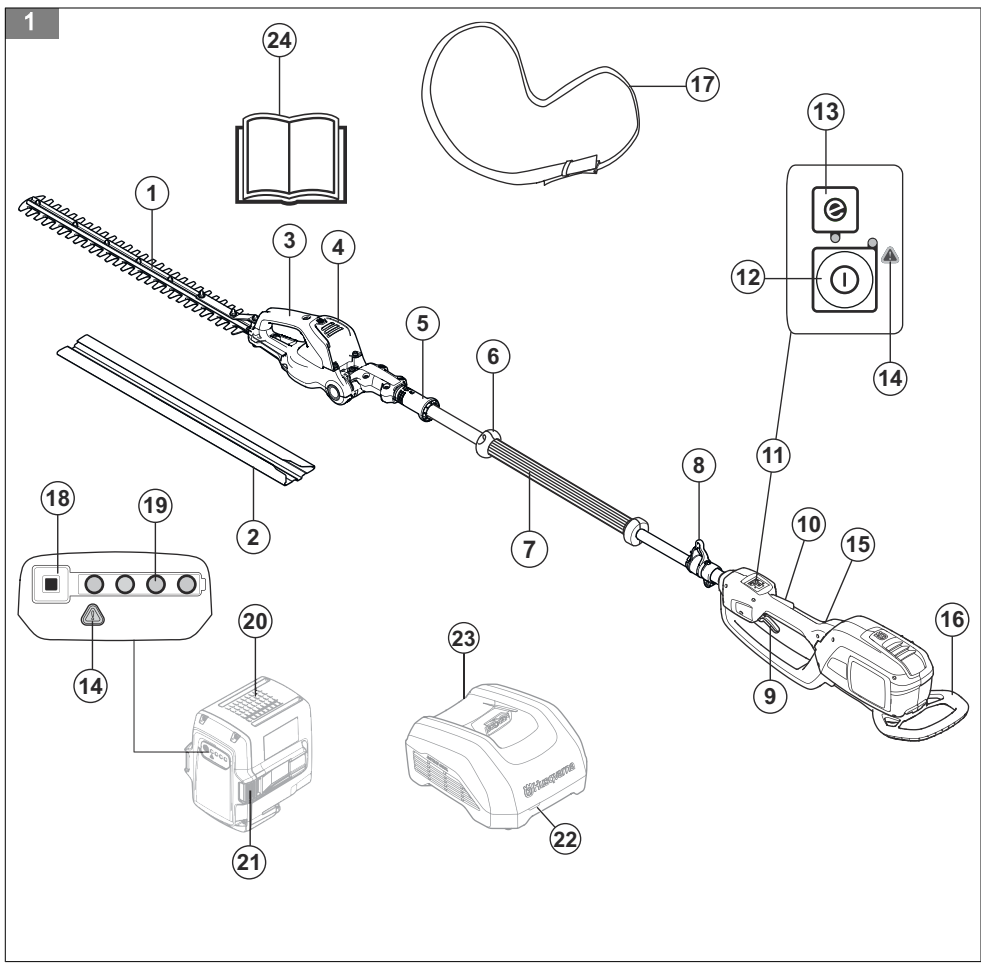




**Husqvarna**<sup>®</sup>



**520iHE3**



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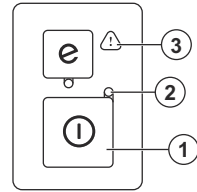
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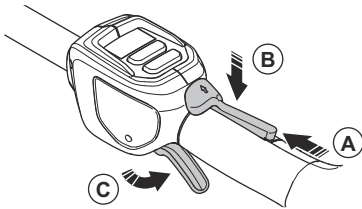
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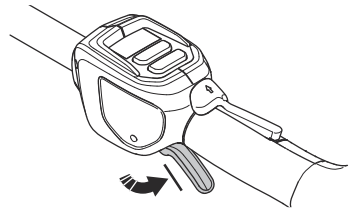
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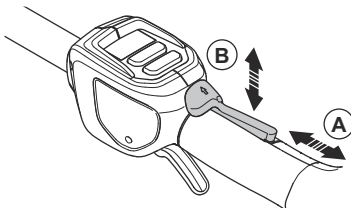
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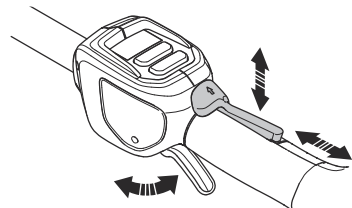
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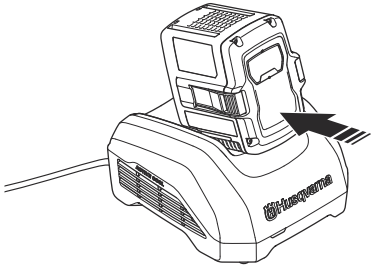
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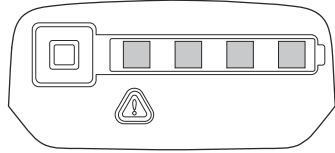
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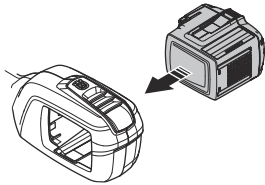
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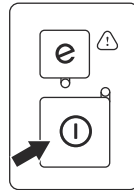
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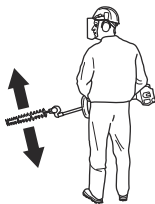
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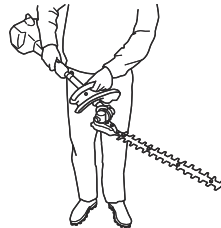
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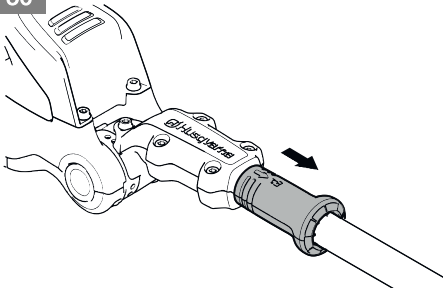
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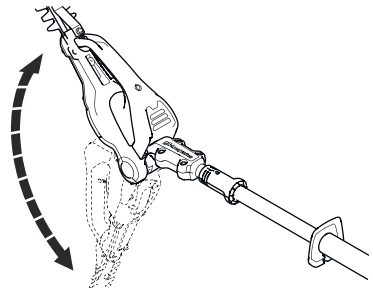
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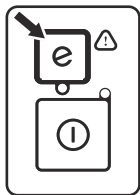
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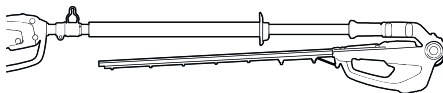
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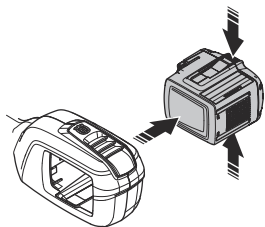
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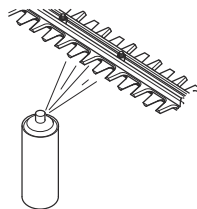
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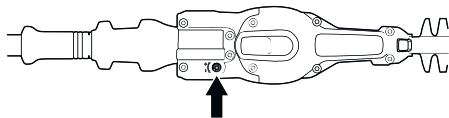
34



35



36



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# Contents

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Introduction.....	6	Troubleshooting.....	16
Safety.....	7	Transportation, storage and disposal.....	18
Operation.....	13	Technical data.....	18
Maintenance.....	15	Applicable to US/CA market.....	19

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## Introduction

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### Product description

Husqvarna 520iHE3 is a battery pole hedge trimmer with an electrical motor.

Work is constantly in progress to increase your safety and efficiency during operation. Speak to your servicing dealer for more information.

### Intended use

Use the product to cut branches and twigs. Do not use the product for other tasks.

### Product overview

(Fig. 1)

1. Blade and blade guard
  2. Transport guard
  3. Handle for tilt adjustment
  4. Cutting deck with tilt adjustment
  5. Lock for tilt adjustment
  6. Hand guard
  7. Front handle
  8. Harness support hook
  9. Power trigger
  10. Power trigger lockout
  11. Control panel
  12. On/Off button
  13. SavE button
  14. Warning indicator
  15. Rear handle
  16. Impact guard
  17. Harness
  18. Battery indicator button
  19. Battery status
  20. Battery (accessory)
  21. Battery release buttons
  22. Charging and error indicator on charger
  23. Battery charger (accessory)
  24. Operator's manual
- 

**Note:** The battery and battery charger can look different between different models.

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### Symbols on the product

- (Fig. 2) **WARNING!** This product is dangerous. Injury or death can occur to the operator or bystanders if the product is not used carefully and correctly. To prevent injury to the operator or bystanders, read and obey all safety instructions in the operator's manual. Please read the operator's manual carefully and make sure that you understand the instructions before use.
- (Fig. 3) Use an approved helmet and approved eye protection.
- (Fig. 4) Use approved protective gloves.
- (Fig. 5) Use heavy-duty slip-resistant boots.
- (Fig. 6) Pull down the handle to unlock angle adjustment of the cutting unit.
- (Fig. 7) Rated voltage, V
- (Fig. 8) Direct current.
- (Fig. 9) Protected against splashing water.
- (Fig. 10) This product does not have insulation. If the product touches or comes near high-voltage power lines, it can cause death or bad injury. The current can jump from one point to other points by

arcing. The higher the voltage is, the larger distance the current can jump. The current can also go through branches and other objects, especially when they are wet. Always keep a minimum distance of 10 m/33 ft between the product and high-voltage power lines and/or all objects that are touching them. If you must work in this safe distance, always tell the related power company to make sure the power is off before you start work. Keep a minimum of 15 m/50 ft to other persons or animals during the operation.

(Fig. 11) Cutting unit operating cycle, operation time/idle time.

yyyywwxxxx | The rating plate shows the serial number. **yyyy** is the production year, **ww** is the production week and **xxxx** is the sequential number.

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**Note:** Other symbols/decals on the product refer to certification requirements for some markets.

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## Symbols on the battery and/or on the battery charger

(Fig. 15) Recycle this product at a recycling station for electrical and electronic equipment. (Applies to Europe only)

(Fig. 12) Fail-safe transformer.

(Fig. 13) Use and keep the battery charger indoors only.

(Fig. 14) Double insulation.

## Product damage

We are not responsible for damages to our product if:

- the product is incorrectly repaired.
- the product is repaired with parts that are not from the manufacturer or not approved by the manufacturer.
- the product has an accessory that is not from the manufacturer or not approved by the manufacturer.
- the product is not repaired at an approved service center or by an approved authority.

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## Safety

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### Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



**WARNING:** Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



**CAUTION:** Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

**Note:** Used to give more information that is necessary in a given situation.

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### General machine safety warnings



**WARNING:** Read all safety warnings, instructions, illustrations and specifications provided with this machine. *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.

**Note:** The term "machine" in the warnings refers to your mains-operated (corded) machine or battery-operated (cordless) machine.

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### Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate machine in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Machines create sparks which may ignite the dust or fumes.

- **Keep children and bystanders away while operating a machine.** Distractions can cause you to lose control.

## Electrical safety

- **Machine plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) machines.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose machines to rain or wet conditions.** Water entering a machine will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the machine. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **When operating a machine outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a machine in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of a RCD reduces the risk of electric shock.

## Personal safety

- **Stay alert, watch what you are doing and use common sense when operating a machine. Do not use a machine while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating machines may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the OFF-position before connecting to a power source and/or battery pack, picking up or carrying the machine.** Carrying machines with your finger on the switch or energising machines that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the machine on.** A wrench or a key left attached to a rotating part of the machine may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the machine in unexpected situations.
- **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.

- **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.
- **Do not let familiarity gained from frequent use of machines allow you to become complacent and ignore machine safety principles.** A careless action can cause severe injury within a fraction of a second.

## Power tool use and care

- **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.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc. 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.
- **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.

## Battery tool use and care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **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.

- **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 irritations or burns.
- **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C (265 °F) may cause explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

## Service

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

## Hedge trimmer safety warnings

- **Do not use the hedge trimmer in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- **Keep all power cords and cables away from cutting area.** Power cords or cables may be hidden in hedges or bushes and can be accidentally cut by the blade.
- **Hold the hedge trimmer by insulated gripping surfaces only, because the blade may contact hidden wiring.** Blades contacting a "live" wire may make exposed metal parts of the hedge trimmer "live" and could give the operator an electric shock.
- **Keep all parts of the body away from the blade. Do not remove cut material or hold material to be cut when blades are moving.** Blades continue to move after the switch is turned off. A moment of inattention while operating the hedge trimmer may result in serious personal injury.
- **When clearing jammed material or servicing the hedge trimmer, make sure all power switches are off and the battery pack is removed or disconnected.** Unexpected actuation of the hedge trimmer while clearing jammed material or servicing may result in serious personal injury.
- **Carry the hedge trimmer by the handle with the blade stopped and taking care not to operate any**

**power switch.** Proper carrying of the hedge trimmer will decrease the risk of inadvertent starting and resultant personal injury from the blades.

- **When transporting or storing the hedge trimmer, always use the blade cover.** Proper handling of the hedge trimmer will decrease the risk of personal injury from the blades.

## Safety instructions for extended-reach hedge trimmers

- **Do not use the extended-reach hedge trimmer in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- **To reduce the risk of electrocution, never use near any electrical power lines.** Contact with or use near power line may cause serious injury or electric shock resulting in death.
- **Always use two hands when operating the extended-reach hedge trimmer.** Hold the extended-reach hedge trimmer with both hands to avoid loss of control.
- **Always use head protection when operating the extended-reach hedge trimmer overhead.** Falling debris can result in serious personal injury.

## General safety instructions



**WARNING:** Read the warning instructions that follow before you use the product.

- Remove the battery to prevent the product from being started by accident.
- This product is a dangerous tool if you are not careful or if you use the product incorrectly. This product can cause serious injury or death to the operator or others.
- Do not use the product if it is changed from its initial specification. Do not change a part of the product without approval from the manufacturer. Only use parts that are approved by the manufacturer. Injury or death is a possible result of incorrect maintenance.
- Do a check of the product before use. Refer to *Safety devices on the product on page 11* and *Maintenance on page 15*. Do not use a product that is damaged or does not operate correctly. Do the safety checks, maintenance and service instructions described in this manual.
- Children should be supervised to ensure that they do not play with the product. Never allow children or other persons not trained in the use of the product and/or the battery to use or service it. Local laws may regulate the age of the user.
- Keep the product in a locked area to prevent access for children or persons that are not approved.
- Store the product out of reach of children.

- Your warranty may not cover damage or liability caused by the use of non-authorized accessories or replacement parts.
- Under no circumstances may the design of the product be modified without the permission of the manufacturer. Always use original accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator and others.

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**Note:** National or Local laws can regulate the use. Comply to given regulations.

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## Safety instructions for operation

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**WARNING:** Read the warning instructions that follow before you use the product.

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- If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop. Avoid all usage which you consider to be beyond your capability.
- Never use the product if you are fatigued, while under the influence of alcohol or drugs, medication or anything that could affect your vision, alertness, coordination or judgment.
- Working in bad weather is tiring and often brings added risk. Due to the added risk, it is not recommended to use the machine in very bad weather, for instance in dense fog, heavy rain, strong winds, intense cold, risk of lightning, etc.
- Faulty cutting attachment can increase the risk of accidents.
- Do not allow children to use or be in the vicinity of the product. Since the product is easy to start, children may be able to start it if they are not kept under full surveillance. This can mean a risk of serious personal injury. Disconnect the battery when the product is not under close supervision.
- Ensure that no people or animals come closer than 15 meters while you work. When several operators are working in the same area the safety distance should be at least 15 meters. Otherwise there is a risk of serious personal injury. Stop the product immediately if anyone approaches. Never swing the product around without first checking behind you to make sure that no one is within the safety zone.
- Ensure that people, animals or other things can not affect your control of the product or that they do not come in contact with the cutting attachment or loose objects that are thrown out by the cutting attachment. However, do not use the product unless you are able to call for help in the event of an accident.
- Always inspect the working area. Remove all loose objects such as stones, broken glass, nails, steel wire, string, etcetera, that could be thrown out or become wrapped around the cutting attachment.
- Make sure that you can move and stand safely. Check the area around you for possible obstacles (roots, rocks, branches, ditches, etcetera) in case you have to move suddenly. Take great care when you work on sloping ground.
- Keep a good balance and a firm foothold at all times. Do not overreach.
- Deactivate the product before you move to another area. Attach the transport guard when the product is not in use.
- Never put the product down unless you have deactivated it. Do not leave the product unsupervised when it is switched on.
- Remove the battery before you pass the product to another person.
- Make sure that no clothes or parts of the body come in contact with the cutting attachment when the product is activated.
- If anything jams in the cutting attachment while you operate the product, stop and deactivate the product. Make sure that the cutting attachment stops completely. Remove the battery before you clean, inspect or repair the product and/or the cutting equipment.
- Keep your hands and feet away from the cutting attachment until it has stopped completely when the product is deactivated.
- Watch out for stumps of branches that can be thrown out when you cut. Do not cut too close to the ground where stones and other objects can be thrown out.
- Watch out for thrown objects. Always wear approved eye protection. Never lean over the cutting attachment guard. Stones, rubbish, etc., can be thrown up into the eyes which can cause blindness or serious injury.
- Listen out for warning signals or shouts when you wear hearing protection. Always remove your hearing protection as soon as the product stops.
- Never work from a ladder, stool or any other raised position that is not fully secured.
- This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.
- Always hold the product with both hands. Hold the product on the right side of your body.
- Always stop the product, remove the battery and make sure that the cutting equipment does not rotate before you remove material that is wound around the blade shaft or caught between the guard and the cutting attachment.
- The electromagnetic field during operation can interfere with the active or passive medical implants. The persons with medical implants speak to your

physician and the medical implant manufacturer before operating this product.

- Hold the weight of the product with the harness to make it easy to operate.
- Long-term exposure to noise can result in permanent hearing impairment. Husqvarna recommends that operators use approved hearing protection.
- Never use a product that has been modified in any way from its original specification.
- Never use a product that is faulty. Carry out the safety checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the maintenance heading.
- Carry out an overall inspection of the product before use. See the maintenance schedule.
- Never allow anyone else to use the machine without first ensuring that they have read and understood the contents of the operator's manual.
- Check the working area for foreign objects such as electricity cables and animals, etc, or other objects that could damage the cutting attachment, such as metal items.
- Faulty blades can increase the risk of accidents.

## Personal protective equipment



**WARNING:** Read the warning instructions that follow before you use the product.

- Always use approved personal protective equipment when you use the product. Personal protective equipment cannot fully prevent injury but it decreases the degree of injury if an accident does occur. Let your dealer help you select the right equipment.
- Use a protective helmet where there is a risk of falling objects.
- Long term exposure to noise can result in damaged hearing. In general, battery powered products are relatively quiet but damage can result from a combination of noise level and long usage. Husqvarna recommends that operators use hearing protectors when using products for a longer coherent time of a day. Continual and regular users should have their hearing checked regularly.



**WARNING:** Hearing protectors limit the ability to hear sounds and warning signals.

- Use approved eye protection. If you use a visor, you must also use approved protective goggles. Approved protective goggles must comply with the ANSI Z87.1 standard in the USAs or EN 166 in EU countries.
- Use a visor for face protection. A visor is not enough for protection of the eyes.

(Fig. 16)

- Use gloves when necessary, for example when you attach, examine or clean the cutting equipment.
- Use sturdy non-slip boots or shoes.
- Use clothing made of a strong fabric. Always use heavy, long pants and long sleeves. Do not use loose clothing that can catch on twigs and branches. Do not wear jewelry, short pants, sandals or go with bare feet. Put your hair up safely above shoulder level.

(Fig. 17)

- Keep first aid equipment close at hand.

(Fig. 18)

## Safety devices on the product



**WARNING:** Read the warning instructions that follow before you use the product.

In this section the product's safety features, its purpose and how checks and maintenance should be carried out to ensure that it operates correctly. See instructions under the heading *Product overview on page 6* to find where these parts are located on your product.

The life span of the product can be reduced and the risk of accidents can increase if product maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest servicing dealer.



**WARNING:** Never use a product with damaged safety components. The product's safety equipment must be inspected and maintained as described in this section. If your product fails any of these checks, contact your service agent to get it repaired.



**CAUTION:** All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your machine is not a servicing dealer, ask him for the address of your nearest service agent.

## To do a check of the keypad

1. Push and hold the On/Off button (1). (Fig. 19)
  - a) The product is on when the LED (2) is on.
  - b) The product is off when the LED (2) is out.

2. Refer to *Keypad on page 16* if the warning indicator (3) comes on or flashes.

### To do a check of the power trigger lockout

The power trigger lockout is designed to prevent accidental operation. When you push the power trigger lockout forward (A) and then press the power trigger lockout against the handle (B), the power trigger (C) is released. When you release the handle, the power trigger and the power trigger lockout both move back to their original positions. This movement is operated by three independent springs. (Fig. 20)

1. Make sure that the power trigger is locked when the lock is in its original position. (Fig. 21)
2. Push the power trigger lockout forward (A) and down. Hold the power trigger lockout against the handle (B) and make sure that it returns to its original position when you release it. (Fig. 22)
3. Make sure that the power trigger and the power trigger lockout moves freely and that the return springs operate properly. (Fig. 23)
4. Push and hold the On/Off button to set the product to On.
5. Push the power trigger fully to apply full speed.
6. Release the power trigger and make sure that the cutting attachment stops and remains still.

### To do a check of the hand guard

The hand guard prevents hands from accidental contact with the blades.

1. Push and hold the On/Off button to set the product to Off.
2. Remove the battery.
3. Check that the hand guard is attached correctly.
4. Examine the hand guard for damages.

### Battery safety



**WARNING:** Read the warning instructions that follow before you use the product.

- Only use the Husqvarna approved batteries. Refer to *Technical data on page 18*. The battery is software encrypted.
- Use the Husqvarna approved batteries as a power supply for the related Husqvarna products only. To prevent injury, do not use the battery as a power supply for other devices.
- Risk of electrical shock. Do not connect the battery terminals to keys, coins, screws or other metal. This can cause a short circuit of the battery.
- Do not use non-rechargeable batteries.
- Do not put objects into the air slots of the battery.

- Keep the battery away from sunlight, heat or open flame. The battery can cause burns and/or chemical burns.
- Keep the battery away from rain and wet conditions.
- Keep the battery away from microwaves and high pressure.
- Do not try to disassemble or break the battery.
- If the battery leaks, do not let the liquid touch your body or eyes. If you have touched the liquid, clean the area with a large quantity of water and soap, and get medical aid. If you get liquid in your eyes, do not rub but flush with water for a minimum of 15 minutes and get medical aid.
- Use the battery in temperatures between -10 °C (14 °F) and 40 °C (114 °F).
- Do not clean the battery or the battery charger with water. Refer to *Battery information on page 14*.
- Do not use a damaged battery.
- Keep batteries in storage away from metal objects such as nails, screws or jewelry.
- Keep the battery away from children.

### Battery charger safety



**WARNING:** Read the warning instructions that follow before you use the product.

- Risk of electrical shock or short circuit if the safety instructions are not obeyed.
- Use approved grounded mains socket that are not damaged.
- Do not use other battery chargers than the one supplied for your product. Only use Husqvarna approved battery chargers to charge Husqvarna approved batteries.
- Do not try to disassemble the battery charger.
- Do not use a damaged battery charger.
- Do not lift the battery charger by the power cord. To disconnect the battery charger from a mains socket, pull out the plug. Do not pull the power cord.
- Keep all cables and extension wires away from water, oil and sharp edges. Make sure that the cable is not caught between doors, fences or similar objects.
- Do not use the battery charger near flammable materials or materials that can cause corrosion. Make sure that there are no covers on the battery charger. Pull out the plug to the battery charger if there is smoke or fire.
- Only charge the battery indoors in a location with good airflow and away from sunlight. Do not charge the battery outdoors. Do not charge the battery in wet conditions.
- Only use the battery charger where the temperature is between 5 °C (41 °F) and 40 °C (104 °F). Use the charger in an environment which has a good airflow, dry and free from dirt.

- Do not put objects into the cooling slots of the battery charger.
- Do not connect the battery charger terminals to metal objects as this can short circuit the battery charger.
- Only use three-wire outdoor extension wires that have three-prong grounding plugs and grounding receptacles that accept the appliance's plug.
- Use a residual-current device (RCD) for increased safety. A residual-current device is installed to prevent injuries from an electrical fault.
- When you operate a power tool outdoors, use an extension wire applicable for outdoor operation. Use of a wire applicable for outdoor operation decreases the risk of electrical shock.
- Regularly make sure that the connection cord of the battery charger is not damaged and that there are no cracks in it.
- Examine extension wires regularly and replace them if damaged.
- Remove the battery before you do maintenance, other checks or assemble the product.
- The operator must only do the maintenance and servicing shown in this operator's manual. Turn to your servicing dealer for maintenance and servicing of a larger extension.
- Do not clean the battery or the battery charger with water. Strong detergent can cause damage to the plastic.
- If you do not do maintenance, it decreases the life cycle of the product and increases the risk of accidents.
- Special training is necessary for all servicing and repair work, especially for the safety devices on the product. If not all checks in this operator's manual are approved after you have done maintenance, turn to your servicing dealer. We guarantee that there are professional repairs and servicing available for your product.
- Keep the teeth of the blade correctly sharpened. Obey our recommendations. Also refer to the instructions on the blade package.
- Only use original spare parts.
- Always use heavy duty gloves when you repair the cutting attachment. The blades are very sharp and can easily cause injuries.

## Safety instructions for maintenance



**WARNING:** Read the warning instructions that follow before you do maintenance on the product.

## Operation

### Introduction



**WARNING:** Read and understand the safety chapter before you use the product.

### Husqvarna Connect

Husqvarna Connect is a free app for your mobile device. The Husqvarna Connect app gives extended functions for your Husqvarna product.

- Extended product information.
- Information about, and help with, product parts and servicing.

### To start to use Husqvarna Connect

1. Download the Husqvarna Connect app on your mobile device.
2. Register in the Husqvarna Connect app.
3. Follow the instruction steps in the Husqvarna Connect app to connect and register the product.

**Note:** Husqvarna Connect app is not available for download in all markets. Speak to your servicing dealer for more information.

### To connect the battery charger

1. Connect the battery charger to the voltage and frequency that is specified on the rating plate.
2. Put the plug in a grounded socket outlet. The LED on the battery charger flashes green one time.

**Note:** The battery does not charge if the battery temperature is less than 0 °C (32 °F) or more than 50°C (122 °F). If the temperature is more than 50 °C/122 °F, the battery charger makes the battery become cool before the battery charges.

### To charge the battery

**Note:** Charge the battery if it is the first time that you use it. A new battery is only 30% charged.

1. Make sure that the battery is dry.
2. Put the battery in the battery charger. (Fig. 24)

**Note:** The battery and battery charger can look different between different models, but the procedure is the same.

3. Make sure that the green charging light on the battery charger comes on. That means that the battery is connected correctly to the battery charger.

4. When all LEDs on the battery come on, the battery is fully charged. (Fig. 25)
5. To disconnect the battery charger from the mains socket, pull the plug. Do not pull the cable.
6. Remove the battery from the battery charger.

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**Note:** Refer to the battery and battery charger manuals for more information.

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## Battery information

Refer to the operator's manual of the battery for information about how to use the battery.

Use the battery in temperatures between -10 °C (14 °F) and 40 °C (104 °F).

## To connect the battery to the product



**WARNING:** Only use Husqvarna original batteries with the product.

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1. Make sure that the battery is fully charged.
2. Push the battery into the battery holder of the product. The battery locks into position when you hear a click. (Fig. 26)



**CAUTION:** If the battery does not move easily into the battery holder, the battery is not installed correctly. This can cause damage to the product.

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3. Make sure that the battery is installed correctly.

## To do before you start the product

1. Examine the work area. Remove objects that can be thrown out.
2. Examine the cutting attachment. Make sure that the blades are sharp, and have no cracks and damages.
3. Make sure that the product works correctly. Examine that all nuts and screws are tight.
4. Make sure that the handle and safety devices are not damaged and are attached correctly. Do not operate a product with missing parts or is changed from its initial specification. Use protective gloves when it is necessary.
5. Make sure that the covers are not damaged and are attached correctly, before you operate the product.

## To start the product

1. Push and hold the On/Off button until the green LED comes on. (Fig. 27)
2. Push the power trigger to adjust the speed.

## To operate the product

1. Start near the ground and move the product up along the hedge when you cut the sides. (Fig. 28)
2. Adjust the speed to align with the work load.
3. Make sure that the motor does not touch the hedge.
4. Hold the product near your body for a stable work position. (Fig. 29)
5. Make sure that the tip of the cutting equipment does not touch the ground.
6. Be careful and work slowly until all the branches are correctly cut.

## To adjust the angle of the product

The cutting deck can be adjusted in 8 different positions.

1. Remove the battery from the product.
2. Pull down the position adjustment handle. (Fig. 30)
3. Tilt the cutting deck with the handle to the applicable position. (Fig. 31)
4. Release the position adjustment handle to lock the cutting deck.

## To use the SavE function

This product has a power saving function, SavE. The SavE function decreases the speed of the cutting equipment and gives the longest operation time from the battery.

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**Note:** The SavE function does not decrease the cutting power of the product.

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1. Push the SavE button on the keypad to start the function. The green LED comes on.
2. Push the SavE button again to stop the function. The green LED goes out. (Fig. 32)

## Automatic shutdown function

The product has an automatic shutdown function that sets the product to Off if you do not operate it for 45 seconds.

## To set the product in transport position



**WARNING:** Do not start the product when the product is in transport position.

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1. Remove the battery from the product.
2. Use the transport guard for transportation.
3. Tilt the cutting deck 180° in your direction. (Fig. 33)

## To stop the product

1. Release the power trigger.
2. Push the On/Off button until the green LED goes out.

3. Push the release buttons on the battery and pull the battery out. (Fig. 34)

## Maintenance

### Introduction



**WARNING:** Read and understand the safety chapter before you do maintenance work on the product.



**WARNING:** Remove the battery before you do maintenance on the product.

### Maintenance schedule



**WARNING:** Remove the battery before you do maintenance.

The following is a list of the maintenance steps that you must do on the product. In addition to the maintenance specified in the maintenance schedule, let a Husqvarna servicing dealer do servicing on the product regularly. For information about the service intervals, speak to your Husqvarna servicing dealer.

Maintenance	Before use	Weekly	Monthly
Clean the external parts of the product.	X		
Examine that the On/Off button works correctly and is not damaged.	X		
Make sure that the power trigger and the power trigger lockout function correctly from a safety point of view.	X		
Make sure that all controls work and are not damaged.	X		
Make sure that the cutter blade and cutter guard have no cracks and that they are not damaged. Replace the cutter blade or the cutter guard if they have cracks or if they are hit.	X		
Speak to your dealer to replace the cutter blade if it is bent or damaged.	X		
Make sure that the hand guard is not damaged. Replace the guard if it is damaged.	X		
Make sure that the screws and nuts are tight.	X		
Make sure that the battery is not damaged.	X		
Make sure that the battery is charged.	X		
Make sure that the battery charger is not damaged.	X		
Make sure that the position lock of the cutting deck is not damaged and operates correctly.	X		
Make sure that the screws that hold the cutter blades together are correctly tightened.		X	
Do a check of the connections between the battery and the product. Do a check of the connection between the battery and the battery charger.			X

## To examine the battery and the battery charger

1. Examine the battery for damages, for example cracks.
2. Examine the battery charger for damages, for example cracks.
3. Make sure that the connection cord of the battery charger is not damaged and that there are no cracks in it.

## To clean the product, the battery and the battery charger

1. Clean the product with a dry cloth after use.
2. Clean the battery and battery charger with a dry cloth. Keep the battery guide tracks clean.
3. Make sure that the terminals on the battery and the battery charger are clean before the battery is put in the battery charger or the product.

## To clean and lubricate the cutter blade

1. Use a cleaning agent to clean resin and remaining plant particles from the blades.
2. Make sure that the blade bars are not damaged. Make sure that the blade bars have no deformation. Remove burrs with a file.
3. Make sure that the blades move freely.
4. Lubricate the blade bars before long periods of storage. (Fig. 35)

## To adjust the tilt tension of the cutting deck

1. Turn the screw to adjust the tilt tension. (Fig. 36)
2. Turn the screw clockwise or counterclockwise to easily tilt the cutting deck.

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## Troubleshooting

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### Keypad

Problem	Possible faults	Possible solution
Green start LED flashes.	Low battery voltage.	Charge the battery.
Red error LED flashes.	Overload.	The cutting attachment is blocked. Push the On/Off button to set the product to Off. Remove the battery. Clean the cutting attachment from unwanted materials. Loosen the chain.
	Temperature deviation.	Let the product become cool.
	The power trigger and the On/Off button are pushed at the same time.	Release the power trigger and push the On/Off button.
The product does not start.	Dirt in the battery connectors.	Clean the battery connectors with compressed air or a soft brush.
Red error LED comes on.	It is necessary to do servicing on the product.	Speak to your servicing dealer.

### Battery

40-B220X <sup>1</sup>		
Symptoms	Cause	Action

<sup>1</sup> The troubleshooting may differ for other battery models. Refer to the operator's manual of the battery for information about how to use the battery. Only use Husqvarna approved batteries.

The battery error indicator flashes.	The battery is empty.	Charge the battery.
	Heavy workload in combination with very low battery temperature.	Make the battery warm. For example, move it indoors or operate at low speed until the battery is warm.
	The battery does not operate. The operating range of the battery is at its limit.	Remove the battery from the product. Let the battery rest, and then push the battery indicator button.
The battery temperature indicator is ON.	The battery is too cold or too hot to use.	Keep the battery in an ambient temperature between -10°C (14°F) and 40°C (104°F). When the battery has the correct temperature, it can be used again.
The battery temperature indicator flashes.	The battery is near its temperature limits.	Decrease the speed and/or workload. Keep the battery in the preferred temperature between +10°C (50°F) and +30°C (86°F) for optimal performance.
The battery temperature indicator is ON while the battery is in the charger.	Temperature deviation, the battery is too cold or too hot to charge.	Let the battery cool down or move it indoors to warm it up. When the battery has the correct temperature, it can be charged again. Make sure to use the charger where the ambient temperature is between 5°C (41°F) and 40°C (104°F). Keep the charger away from sunlight. If the problem continues, speak to your dealer.
The battery error indicator comes on.	The battery has a critical error.	Speak to your dealer.

## Battery charger

40-C500X <sup>2</sup>		
Symptoms	Possible faults	Possible procedure
<p>The charging indicator on the charger is yellow.</p> <p>The battery error indicator flashes, or the battery temperature indicator is on.</p>	<p>Temperature deviation, the battery is too cold or too hot to use or charge.</p>	<p>If the battery is too hot, keep it connected to the charger. The built-in fan of the charger decreases the temperature of the battery. When the battery has the recommended temperature, the charging starts automatically.</p> <p>If the battery is too cold, move it indoors. When the battery has the recommended temperature, continue the charging.</p> <p>Obey the temperature range for operation, refer to the operator's manual of the battery charger. Keep the charger away from sunlight. If the problem continues, speak to your dealer.</p>
<p>The charging indicator on the charger is yellow. The battery error indicator on the battery is on.</p>	<p>The battery has a critical error.</p>	<p>Speak to your dealer.</p>

<sup>2</sup> The troubleshooting may differ for other battery charger models. Refer to the operator's manual of the battery charger for information about how to use the battery charger. Only use Husqvarna approved battery chargers.

The charging indicator on the charger is red.	The charger has a critical error.	Speak to your dealer.
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## Transportation, storage and disposal

### Transportation and storage

- The supplied Li-ion batteries obey the Dangerous Goods Legislation requirements.
- Obey the special requirement on package and labels for commercial transportation, including by third parties and forwarding agents.
- Speak to a person with special training in dangerous material before you send the product. Obey all applicable national regulations.
- Use tape on open contacts when you put the battery in a package. Put the battery in the package tightly to prevent movement.
- Remove the battery for storage or transportation.
- Put the battery and the battery charger in a space that is dry and free from moisture and frost.
- Do not keep the battery in an area where static electricity can occur. Do not keep the battery in a metal box.
- Put the battery in storage where the temperature is between 5°C/41°F and 25°C/77°F and away from open sunlight.
- Put the battery charger in storage where the temperature is between 5°C/41°F and 45°C/113°F and away from open sunlight.
- Use the battery charger only when the surrounding temperature is between 5°C/41°F and 40°C/104°F.

- Charge the battery 30% to 50% before you put it in storage for long periods.
- Put the battery charger in storage in a space that is closed and dry.
- Keep the battery away from the battery charger during storage. Do not let children and other not approved persons to touch the equipment. Keep the equipment in a space that you can lock.
- Clean the product and do a full servicing before you put the product in storage for a long time.
- Use the transportation guard on the product to prevent injuries or damage on the product during transportation and storage.
- Attach the product safely during transportation.

### Disposal of the battery, battery charger and product

Symbols on the product or the package of the product means that the product is not domestic waste. Recycle it at a recycling station for electrical and electronic equipment. This helps to prevent damage to the environment and to persons.

Get in touch with your local authorities, domestic waste service or your dealer for more information about how to recycle your product.

## Technical data

### Technical data

	<b>520iHE3</b>
<b>Motor</b>	
Motor type	BLDC (brushless) 36 V
<b>Weight<sup>3</sup></b>	
Weight without battery, lbs/kg	9.2/4.2
Weight with battery (Default battery 40-B220X), lbs/kg	12.3/5.6
<b>Cutting Equipment</b>	
Type	Double sided
Blade length, mm	550

<sup>3</sup> Measured without transport guard.

	<b>520iHE3</b>
Blade speed cuts/min in the SavE mode	3500
Blade speed cuts/min not in the SavE mode	4000
<b>Water protection level</b>	
IPX4 <sup>4</sup>	Yes
<b>Sound levels</b>	
Sound pressure level at the operator's ear, measured according to EN 62841-1 and EN62841-4-2, dB(A)	84
<b>Vibration levels <sup>5</sup></b>	
Vibration levels ( $a_{H1}$ ) at handles refer to EN 62841-1 and EN62841-4-2, m/s <sup>2</sup> Front/rear handles	2.6/1.7

## Approved batteries

<b>Battery</b>	<b>BLI200</b>	<b>40-B220X</b>
Type	Lithium-ion	Lithium-ion
Battery capacity, Ah	5.2	6.0
Nominal voltage, V	36	36
Weight, kg (lb)	1.3 (2.9)	1.4 (3.1)

## Approved battery chargers

<b>Battery charger</b>	<b>QC330</b>	<b>40-C500X</b>
Input voltage, V	100-240	100-240
Frequency, Hz	50-60	50-60
Power, W	330	500

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## Applicable to US/CA market

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### Supplier's Declaration of Conformity

Responsible party: Husqvarna Professional Product, Inc, 9335 Harris Corners Parkway Charlotte, NC

<sup>4</sup> The Husqvarna Handheld Battery products marked with IPX4 fulfils these requirements on product approval level

<sup>5</sup> Reported date for vibration level has a typical statistical dispersion (standard deviation) of 1,5 m/s<sup>2</sup>.

The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing on tool with another.

The declared vibration total value may also be used in a preliminary assessment of exposure.

## Compliance requirements

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**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
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**WARNING:** Cancer and Reproductive  
Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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