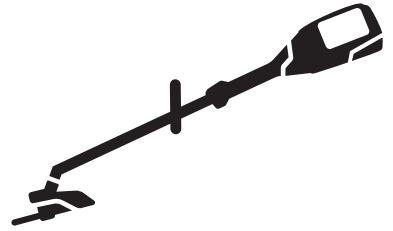




Husqvarna[®]



520iLX

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Introduction

Product description

Husqvarna 520iLX is a battery grass 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.

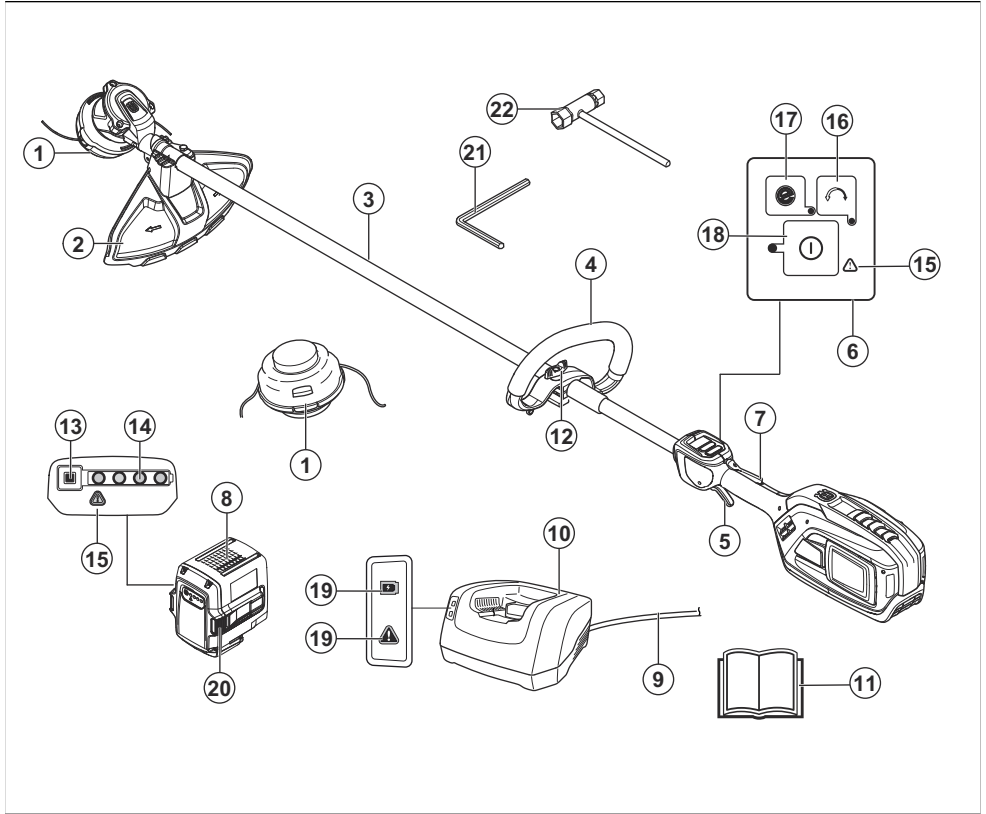
Intended use

The product is used with non-metallic trimmer lines, non-metallic strings or equivalent non-metallic flexible cutting

elements. Do not use the product for other tasks than to cut weed, grass or similar soft vegetation.

Note: National regulations can set limit to the operation of the product.

Product overview



1. Trimmer head
2. Cutting attachment guard
3. Shaft
4. Loop handle
5. Power trigger
6. Keypad
7. Power trigger lockout
8. Battery
9. Cord
10. Battery charger
11. Operator's manual
12. Handle adjustment
13. Battery indicator button
14. Battery status
15. Warning indicator (error LED)
16. Rotation direction button
17. SavE button
18. Start and stop button
19. Power on and warning indicator (error LED)

20. Battery release buttons
21. 4 mm hex key
22. Combination tool

Symbols on the product



WARNING! This product can be dangerous! Careless or incorrect use can result in serious injury to the operator or others. It is very important that you read and understand the contents of the operator's manual. Please read the operator's manual carefully and make sure you understand the instructions before the product is used.



Use approved helmet and eye protection.



Maximum speed or no-load speed.



The product agrees with the applicable EC directives.



This product conforms to the applicable UK regulations.



Keep a minimum distance of 15 m to persons and animals during operation of the product.



Risk of blade thrust if the cutting equipment touches an object that is not immediately cut. The product can cut off body parts. Keep a minimum of 15 m distance to persons and animals during operation of the product.



Use approved protective gloves.



Use heavy-duty slip-resistant boots.



Symbols on the product or its packaging indicate that this product cannot be handled as domestic waste. This product must be deposited at an appropriate recycling facility.



Disconnect battery before maintenance.



The product can cause objects to eject, which can cause injury.



The arrows show the limit for the handle position.



Rated voltage, V

IPX4

Protected against splashing water.



Direct current.



Noise emission to the environment label as per EU (also including New South Wales legislation) and UK directives and regulations. The guaranteed sound power level of the product is specified in *Technical data on page 18* and on the label

yyyywwxxxx

The rating plate shows the serial number. **yyyy** is the production year, **ww** is the production week.

Symbols on the battery and/or on the battery charger



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



Fail-safe transformer.



Use and keep the battery charger indoors only.



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.

Safety

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.

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

Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate machines 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 power source and/or battery pack, picking up or carrying the tool.** 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 tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

Machine use and care

- **Do not force the machine. Use the correct machine for your application.** The correct machine will do the job better and safer at the rate for which it was designed.
- **Do not use the machine if the switch does not turn it on and off.** Any machine 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 machine before making any adjustments, changing accessories, or storing machines.** Such preventive safety measures reduce the risk of starting the machine accidentally.
- **Store idle machines out of the reach of children and do not allow persons unfamiliar with the machines or these instructions to operate the machines.** Machines are dangerous in the hands of untrained users.
- **Maintain machines and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the machines's operation. If damaged, have the machine repaired before use.** Many accidents are caused by poorly maintained machines.
- **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 machine, 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 machine 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 behaviour 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 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 machine serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the machine is maintained.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Grass trimmer, brush cutter and brush saw safety warnings

- **Do not use the machine in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- **Thoroughly inspect the area for wildlife where the machine is to be used.** Wildlife may be injured by the machine during operation.
- **Thoroughly inspect the area where the machine is to be used and remove all stones, sticks, wires, bones, and other foreign objects.** Thrown objects can cause personal injury.
- **Before using the machine, always visually inspect to see that the cutter or blade and the cutter or blade assembly are not damaged.** Damaged parts increase the risk of injury.
- **Follow instructions for changing accessories.** Improperly tightened blade securing nuts or bolts may either damage the blade or result in it becoming detached.
- **The rated rotational speed of the blade must be at least equal to the maximum rotational speed marked on the machine.** Blades running faster than their rated rotational speed can break and fly apart.
- **Wear eye, ear, head and hand protection.** Adequate protective equipment will reduce personal injury by flying debris or accidental contact with the cutting line or blade.
- **While operating the machine, always wear non-slip protective footwear. Do not operate the machine when barefoot or wearing open sandals.** This reduces the chance of injury to the feet from contact with a moving cutter, line or blade.
- **While operating the machine, always wear long trousers.** Exposed skin increases the likelihood of injury from thrown objects.

- **Keep bystanders away while operating the machine.** Thrown debris can result in serious personal injury.
- **Always use two hands when operating the machine.** Holding the machine with both hands will avoid loss of control.
- **Hold the machine by the insulated gripping surfaces only, because the cutting line or blade may contact hidden wiring.** Cutting line or blades contacting a "live" wire may make exposed metal parts of the machine "live" and could give the operator an electric shock.
- **Always keep proper footing and operate the machine only when standing on the ground.** Slippery or unstable surfaces may cause a loss of balance or control of the machine.
- **Do not operate the machine on excessively steep slopes.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- **Keep all parts of the body away from the cutter, line or blade when the machine is operating. Before you start the machine, make sure the cutter, line or blade is not contacting anything.** A moment of inattention while operating the machine may result in injury to yourself or others.
- **Do not operate the machine above waist height.** This helps prevent unintended cutter or blade contact and enables better control of the machine in unexpected situations.
- **When cutting brush or saplings that are under tension, be alert for spring back.** When the tension in the wood fibres is released, the brush or sapling may strike the operator and/or throw the machine out of control.
- **Use extreme caution when cutting brush and saplings.** The slender material may catch the blade and be whipped toward you or pull you off balance.
- **Maintain control of the machine and do not touch cutters, lines or blades and other hazardous moving parts while they are still in motion.** This reduces the risk of injury from moving parts.
- **When clearing jammed material or servicing the machine, make sure the switch is off and the battery pack is removed.** Unexpected starting of the machine while clearing jammed material or servicing may result in serious personal injury.
- **Carry the machine with the machine switched off and away from your body.** Proper handling of the machine will reduce the likelihood of accidental contact with a moving cutter, line or blade.
- **When transporting or storing the machine, always fit the cover on metal blades.** Proper handling of the machine will reduce the likelihood of accidental contact with the blade.
- **Only use replacement cutters, lines, cutting heads and blades specified by the manufacturer.** Incorrect replacement parts may increase the risk of breakage and injury.

Blade thrust causes and related warnings

Blade thrust is a sudden sideways, forward or backward motion of the machine, which may occur when the blade jams or catches on an object such as a sapling or a tree stump. It can be violent enough to cause the machine and/or operator to be propelled in any direction, and possibly loose control of the machine. Blade thrust and its related hazards can be avoided by taking proper precautions as given below.

- **Maintain a firm grip with both hands on the machine and position your arms to resist blade thrust. Position your body to the left side of the machine.** Blade thrust can increase the risk of injury due to the machine moving unexpectedly. Blade thrust can be controlled by the operator if proper precautions are taken.
- **If the blade binds, or when interrupting a cut for any reason, switch the machine off and hold the machine motionless in the material until the blade comes to a complete stop. While the blade is binding, never attempt to remove the machine from the material or pull the machine backward while the blade is in motion, otherwise blade thrust may occur.** Investigate and take corrective actions to eliminate the cause of blade binding.
- **Do not use blunt or damaged blades.** Blunt or damaged blades increase the risk of jamming or catching on an object, resulting in blade thrust.
- **Always maintain good visibility of the material being cut.** Blade thrust is more likely to occur in areas where it is difficult to see the material being cut.
- **If you are approached by another person while operating the machine, switch the machine off.** There is an increased risk of injury to other persons being struck by the moving blade in the event of blade thrust.

Other general safety information

- Deactivate the product before you move to another area. Always remove the battery when passing the product to another person.
- Never put the product down unless you have deactivated it and removed the battery. Do not leave the product unsupervised when it is switched on.
- The cutting tool does not stop immediately after the product is turned off.
- The blade should be completely stopped once the trigger switch has returned to the initial position.
- Before using the product and after any impact, check for signs of wear or damage and repair as necessary.
- 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.

- Do a check of the product before use. Refer to, *Safety on page 5* and *Before you operate the product on page 12*. Do not use a defective product. Do the safety checks, maintenance and service instructions described in this manual.
- Faulty cutting attachment can increase the risk of accidents.
- Check the gear for dirt and cracks. Clean off grass and leaves from the gear using a brush. Gloves should be worn when necessary.
- Always ensure that ventilation openings are kept clear of debris.
- Check that the trimmer head is completely attached to the trimmer.
- All covers, guards and handles must be fitted before starting.
- Check that the product is in perfect working order. Check that all nuts and screws are tight.
- Check that the trimmer head and trimmer guard are not damaged or cracked. Replace the trimmer head or trimmer guard if it has been exposed to impact or are cracked. Always use the recommended guard for the cutting attachment you are using. See chapter on Technical data.
- 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.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Never allow children to use or be in the vicinity of the machine. Since the machine 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. Therefore disconnect the battery when the machine is not under close supervision.
- Never allow children or other persons not trained in the use of the product and/or the battery to use or service it.
- National or local regulations may regulate the use. Comply to given regulations.
- Store the equipment in a lockable area so that it is out of reach of children and unauthorized persons.
- The transport guard must always be used for storage and transport.
- Keep hands and feet away from the cutting area at all times and especially when switching on the motor.
- Keep your hands and feet away from the cutting attachment until it has stopped completely when the product is deactivated.
- Do not remove the cut material, or let other persons remove cut material, while the product is activated or the cutting equipment rotates, as this can result in serious injury.
- Keep in mind that it is you, the operator that is responsible for not exposing people or their property to accidents or hazards.
- 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 or others. Your warranty may not cover damage or liability caused by the use of non-authorized accessories or replacement parts.
- The only accessories you can operate with this product are the cutting attachments recommended in the technical data chapter.
- 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.
- 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
- Never work from a ladder, stool or any other raised position that is not fully secured.
- Store Idle Appliances Indoors – When not in use, appliances should be stored indoors
- It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. Avoid all situations which you consider to be beyond your capability. If you still feel uncertain about operating procedures after reading these instructions, you should consult an expert before continuing.
- 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 metres. 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.
- 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.

- 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.
- 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.
- Walk, never run.
- Inspect the working area. Remove all loose objects, such as stones, broken glass, nails, steel wire, string etc. that could be thrown out or become wrapped around the cutter or cutter guard.
- 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.
- Make sure that no clothes or parts of the body come in contact with the cutting attachment when the product is activated. Keep the product below waist level.
- Watch out for thrown objects. Always wear approved eye protection. Never lean over the cut-ting 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.
- If any unwanted vibrations occur, tap out new line to give the line the correct length to stop the vibrations.
- If the product starts vibrating abnormally, stop the product and remove the battery.
- Overexposure to vibration can lead to circulatory damage or nerve damage in persons who have poor circulation. Speak to your physician if you experience symptoms of overexposure to vibration. Such symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin color or condition. These symptoms usually show in the fingers, hands or wrists.
- Always hold the product with both hands. Hold the product on the right side of your body.

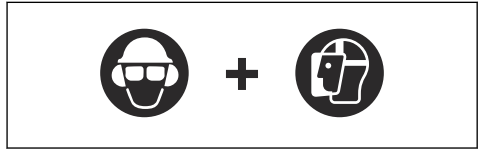
Personal protective equipment



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 correct equipment.

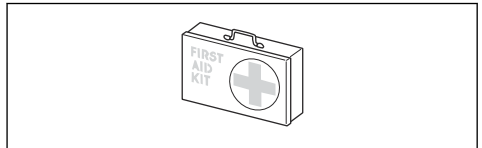
- Use a helmet if the trees in the work area have a height of more than 2 m/6.5 ft.
- Use approved hearing protection.
- Always use approved protective goggles that comply with ANSI Z87.1 standard in the USA or EN 166 in EU countries. Use visor for face protection. Visor is not enough to protect the eyes.



- Use gloves when it is necessary, for example when you attach, examine or clean the cutting equipment.
- Use protective boots with steel toe-cap and non-slip soles.
- 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 use jewelry, short pants or sandals. Do not go with bare feet. Put your hair up safely above shoulder level.



- Keep first aid equipment near.



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 3* 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.



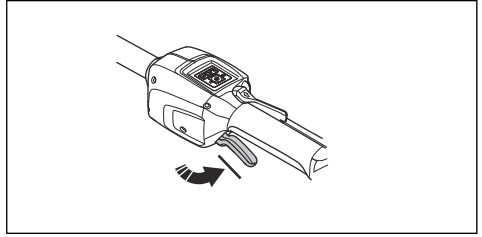
WARNING: Never use a product with damaged safety components. The product's safety equipment must be inspected and

maintained as described in this section. If your product fails any of these checks, contact your service agent to get it repaired.

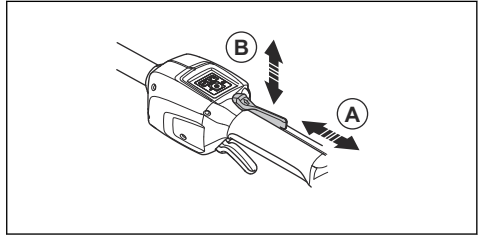


CAUTION: All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional 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.

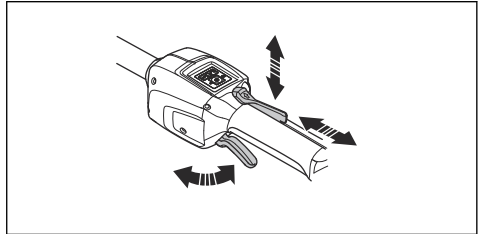
1. Make sure that the power trigger is locked when the lock is in its original position.



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.



3. Make sure that the power trigger and the power trigger lockout moves freely and that the return springs operate properly.



4. Start the product, refer to *To start the product on page 13*.
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.

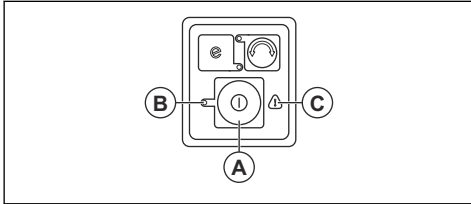
To do a check of the cutting attachment guard



WARNING: Do not use a cutting attachment without an approved and correctly attached cutting attachment guard. Always use the recommended cutting attachment guard for the cutting attachment that you use, see *Accessories on page 20*. If an incorrect or faulty cutting attachment guard is attached this can cause serious personal injury.

To do a check of the keypad

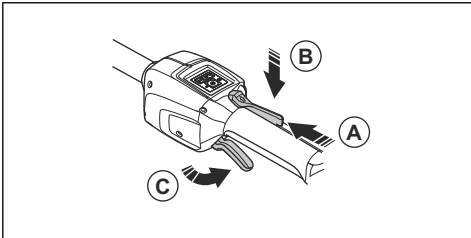
1. Press and hold the start/stop button (A).



- a) The product is switched on when the LED (B) is lit.
 - b) The product is switched off when the LED (B) is out.
2. See *Troubleshooting on page 16* if the warning indicator (C) is lit or flashes.

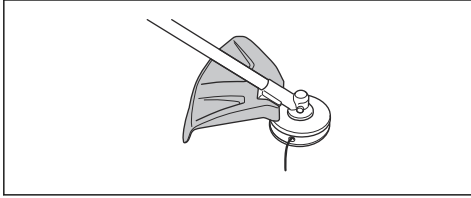
To do a check of the power trigger lockout

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.



The cutting attachment guard stops objects that ejects in the direction of the operator. It also prevents injuries that occur if you touch the cutting attachment.

1. Stop the motor.
2. Do a visual check for damages, for example cracks.



3. Replace the cutting attachment guard if it is damaged.

Trimmer head

- Always use the correct trimmer head, cutting attachments and always use the recommended trimmer line. Refer to *Accessories on page 20* and the assembly in the end of the Manual.
- Make sure that the cutter on the trimmer guard is not damaged.
- Make sure that the trimmer line is wound tightly and equally around the drum to prevent unusual vibrations from the product. Different cord lengths can result in vibrations that are not necessary. Tap the trimmer head to get correct length on the cord.

To increase the life of the cord it can be soaked in water for 2 days or more before assembly. This will make the cord more resistant.

Safety instructions for assembly



WARNING: Read this power unit manual together with approved accessory manual.

- Remove the battery from the product before you assemble the product.

- Use the approved protective gloves.
- A damaged or incorrect guard can cause injury. Do not use a cutting attachment that does not have an approved guard attached.
- Make sure that you assemble the cover and shaft correctly before you start the product.
- If a harness is supplied with the attachment, the harness must be correctly attached to the product. The harness makes operation safe and prevents injury to the operator or other persons.

Safety instructions for maintenance



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

- 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.
- 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.

Assembly

Introduction

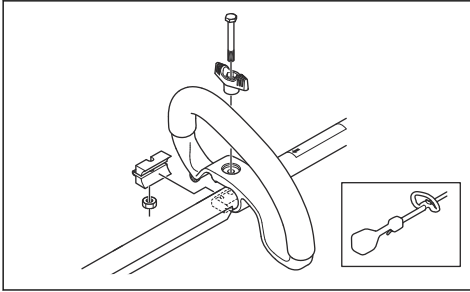
This section describes how to assemble and adjust the product.



WARNING: Before you assemble the product, read the safety chapter and the assembly instructions.

To assemble the loop handle

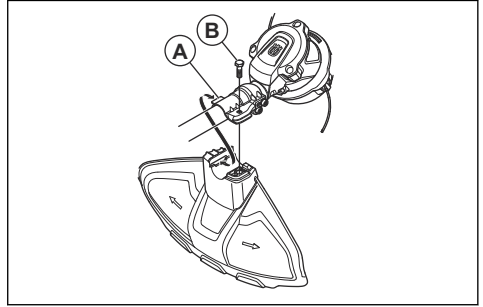
1. Attach the loop handle onto the shaft between the arrows.



2. Move the spacer into the slot of the loop handle.
3. Install the nut, the knob and the screw. Do not tighten too much.
4. Adjust the product to an applicable position.
5. Tighten the bolt.

To assemble the trimmer guard

1. Install the correct trimmer guard for the trimmer head, refer to *Accessories* on page 20.
2. Hang the trimmer guard on the hook on the plate holder (A).
3. Bend the trimmer guard around the shaft and attach it with the bolt (B) on the opposite side of the shaft.



Operation

Introduction



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

Before you operate the product

- Examine the work area to make sure that you know the type of terrain. Examine the slope of the ground and if there are obstacles such as stones, branches and ditches.
- Do a general inspection of the product.
- Do the safety inspections, maintenance and servicing that are given in this manual.
- Examine the motor for dirt or cracks. Use a brush to clean the motor from grass and leaves. Use gloves when it is necessary.
- Examine the trimmer head and cutting attachment guard for damages or cracks. Replace the trimmer head and cutting attachment guard if they are hit or if they have cracks.
- Make sure that all nuts and screws are tight.
- Make sure that all covers, guards, handles and the cutting equipment are correctly attached and not damaged before you start the product.

To connect the battery charger

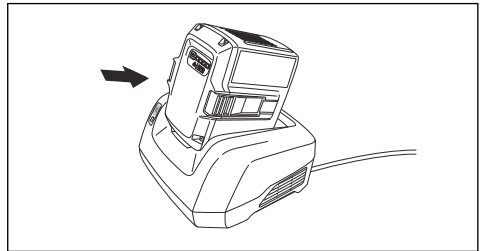
1. Connect the battery charger to the voltage and frequency that is specified on the rating plate.
2. Put the plug in a grounded socket outlet. The LED on the battery charger flashes green one time.

Note: The battery does not charge if the battery temperature is 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.

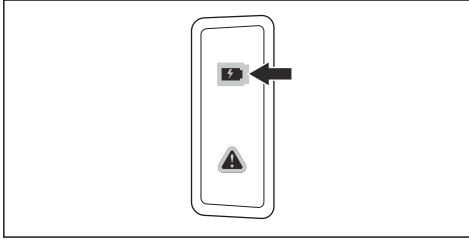
To charge the battery

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

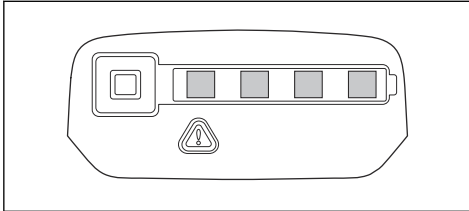
1. Make sure that the battery is dry.
2. Put the battery in the battery charger.



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.



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.

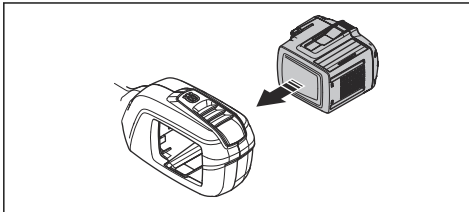
Note: Refer to the battery and battery charger manuals for more information.

To connect the battery to the product



WARNING: Only use Husqvarna original batteries with the product.

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.



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.

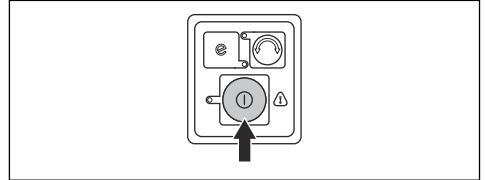
3. Make sure that the battery is installed correctly.

Battery information

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

To start the product

1. Press and hold the start/stop button until the green LED is lit.

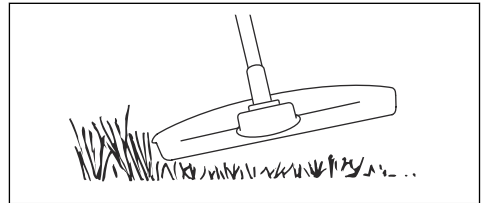


2. Use the power trigger to control the speed.

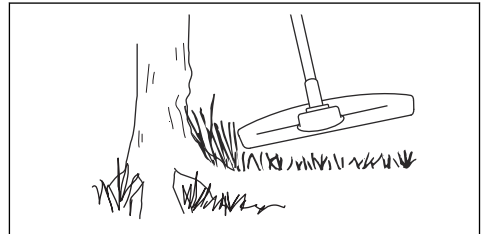
To operate the product

To trim the grass

1. Hold the trimmer head immediately above the ground at an angle. Do not push the trimmer line into the grass.



2. Decrease the length of the trimmer line by 10-12 cm / 4-4.75 in.
3. Decrease the engine speed to decrease the risk of damage to plants.
4. Use 80 % throttle when you cut grass near objects.



To clear grass

1. Keep the trimmer head above the ground.
2. Tilt the trimmer head.
3. Cut with the end of the trimmer line around objects in the work area.

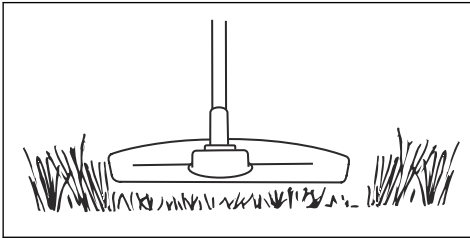


CAUTION: Cut grass. Other objects that are hit by the trimmer line, increases the wear on the trimmer line.

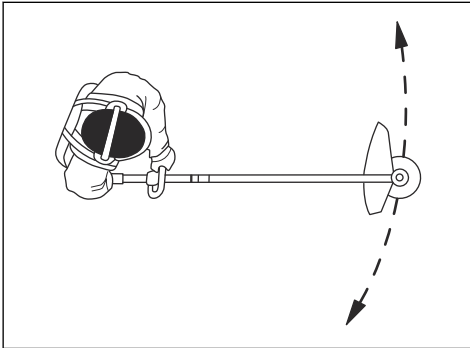
- Use 80% speed when you cut and clear vegetation. This decreases the wear on the trimmer head and trimmer line.

To cut the grass

- Make sure that the trimmer line is parallel to the ground when you cut the grass.



- Do not push the trimmer head to the ground. This can cause damage to the product.
- Move the product from side to side when you cut grass. Use full speed.



To sweep the grass

The airflow from the rotating trimmer line can be used to remove cut grass from an area.

- Hold the trimmer head and the trimmer line parallel to the ground and above the ground.
- Apply full throttle.
- Move the trimmer head from side to side and sweep the grass.

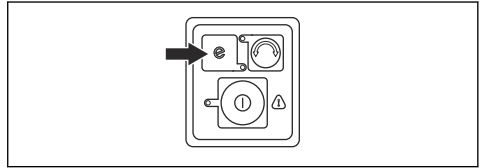


WARNING: Clean the trimmer head cover each time you assemble new trimmer line to prevent unbalance and vibrations in the handles. Also do a check of the other parts of the trimmer head and clean it if necessary.

To start the SavE function

The product has a power saving function. The SavE function gives the longest operation time from the battery.

- Push the SavE button to start the function. The green LED comes on to show that the function is on.

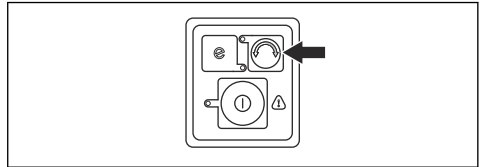


- Push the SavE button again to stop the SavE function.

To change the operation direction of the trimmer head

It is possible to change the operation direction of the trimmer head. This can be done at full speed or at stop position. In the factory, the trimmer head is set to turn clockwise. The green LED is off when the trimmer head turns clockwise.

- Push the operation direction button to make the trimmer head turn counterclockwise. The green LED is on when the trimmer head turns counterclockwise.



Note: It is easier to tap out the trimmer line to make it longer when the trimmer head turns clockwise.

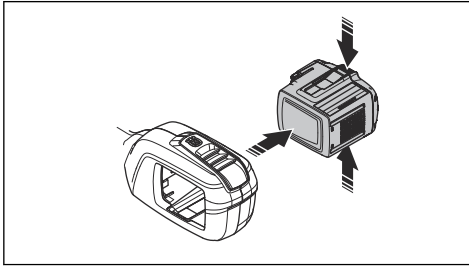
Automatic shutdown function

The product has an automatic shutdown function that stops the product if the product is not used. The green LED for start/stop indication goes off and the product stops after 120 seconds.

To stop the product

- Release the power trigger or the power trigger lockout.
- Push the start/stop button until the green LED is off.

3. Push the release buttons on the battery and pull the battery out.



Maintenance

Introduction



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

The following is a list of the maintenance steps that you must do on the product. See *Maintenance on page 15* for more information.

Maintenance schedule



WARNING: Remove the battery before you do maintenance.

Maintenance	Daily	Weekly	Monthly
Clean the external parts of the product with a dry cloth. Do not use water.	X		
Examine that the start and stop 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		
Keep the handles dry, clean and free from oil and grease.	X		
Make sure that the cutting attachment is not damaged. Replace the cutting attachment if it is damaged.	X		
Make sure that the cutting attachment guard is not damaged. Replace the cutting attachment guard if it is damaged.	X		
Make sure that the screws and nuts are tight.	X		
Make sure that the battery release buttons on the battery works and locks the battery in the product.	X		
Examine that the battery charger is not damaged and function correctly.	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		
Examine all cables, couplings and connections. Make sure they are not damaged and free from dirt.		X	

Maintenance	Daily	Weekly	Monthly
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.

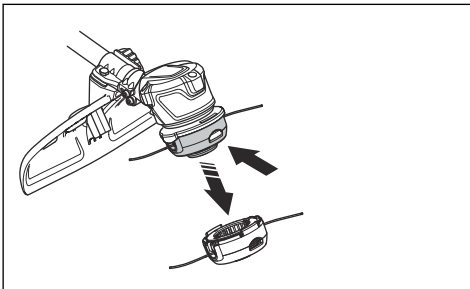
To clean the product, the battery and the battery charger

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.

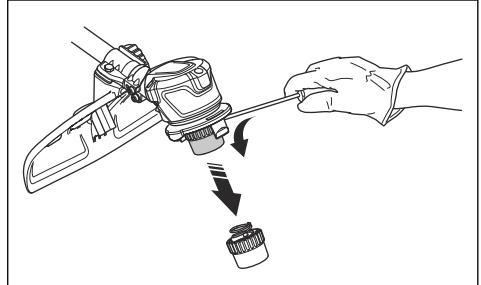
To replace the trimmer head

Note: To increase the life of the cord it can be soaked in water for a couple of days before it is assembled. This will make the cord tougher.

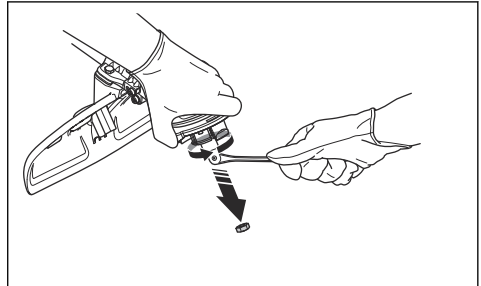
1. Press the snap-in clips on the trimmer head and remove the trimmer head and trimmer line.



2. Pull out the line chute assembly.



3. Remove the nut that holds the trimmer head and the drive disc.



4. Replace the trimmer head.
5. Install the nut.
6. Install the line chute assembly.
7. Install the trimmer head.

Troubleshooting

Keypad

LED display	Possible faults	Possible action
Green activate LED flashing	Low battery voltage.	Charge the battery.

LED display	Possible faults	Possible action
Red error LED flashing	Overload.	The cutting attachment is jammed. deactivate the product. Remove the battery. Clean the cutting attachment from unwanted materials.
	Temperature deviation.	Let the product cool down.
	The power trigger and the activate button are pressed at the same time.	Release the power trigger and the product is active.
The product does not start	Dirt in the battery connectors.	Clean the battery connectors with compressed air or a soft brush.
Error LED is lit with red light	The product needs servicing.	Contact your servicing agent.

Battery

LED display	Possible faults	Possible action
Green activate LED flashing	Low battery voltage.	Charge the battery.
Error LED flashing	The battery is discharged.	Charge the battery.
	Temperature deviation.	Use the battery in surroundings where temperatures are between -10°C (14°F) and 40°C (104°F).
Error LED is lit	Cell difference is too much (1V).	Contact your servicing agent.

Battery charger

LED display	Possible faults	Possible action
Error LED flashes	Temperature deviation.	Use the battery charger in temperatures between 5°C (14°F) and 40°C (104°F).
	Overvoltage.	Make sure that the mains voltage is the same as the shown voltage value on the rating plate on the product.
		Remove the battery from the battery charger.
Error LED comes on		Speak to your service agent.

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

The symbol below 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.

Speak to local authorities, domestic waste service or your dealer for more information.



Note: The symbol shows on the product or package of the product.

Technical data

Technical data

	520iLX
Motor	
Motor type	BLDC (brushless) 36 V
Speed of output shaft trimmerhead/blade, n ₀	5500/5500
Cutting width, mm	400
Weight	
Weight without battery, kg	3
Weight with battery, kg	4.3
Weight with trimmerhead/blade without battery, kg	3/3.5
Weight with trimmerhead/blade with battery, kg	4.3/4.8
Water protection level	
IPX4 ¹	Yes

¹ The Husqvarna Handheld Battery products marked with IPX4 fulfils these requirements on product approval level

		520iLX
Noise emissions ²		
Sound power level, measured dB (A)		85
Sound power level, guaranteed L _{WA} dB (A)		88
Noise levels ³		
Equivalent sound pressure level at the operator's ear, measured according to EN 62841-4-4 and ISO 22868, dB (A):		77
Vibration levels ⁴		
Vibration levels at handles, measured according to EN 62841-4-4, m/s ²		
Equipped with trimmer head (original), left/right		0.2/1.4
Equipped with Grassblad 255-4, left/right		0.7/1.8

Approved batteries for the product

Battery	BLi200	40-B220X
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

Battery charger	QC330	QC500
Input voltage, V	100-240	100-240
Frequency, Hz	50-60	50-60
Power, W	330	500

² Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EC directive 2000/14/EC. The difference between guaranteed and measured sound power is that the guaranteed sound power also includes dispersion in the measurement result and the variations between different machines of the same model according to Directive 2000/14/EC.

³ Reported data for equivalent sound pressure level for the product has a typical statistical dispersion (standard deviation) of 3 dB (A).

⁴ Reported data for vibration level has a typical statistical dispersion (standard deviation) of 2 m/s².

Accessories

Approved accessories

Approved accessory	Type	Cutting attachment guard, art no
Trimmer head	T25B (Ø 2.0 mm - Ø 2.4 mm Whisper line)	577 01 83-05
J-handle set	J-handle	577 01 83-05

Declaration of Conformity

EU Declaration of conformity

We, **Husqvarna AB**, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declare on our sole responsibility that the product:

Description	Battery-operated Grass Trimmer
Brand	Husqvarna
Type / Model	520iLX
Identification	Serial numbers dating from 2024 and onwards

complies fully with the following EU directives and regulations:

Regulation	Description
2006/42/EC	"relating to machinery"
2014/30/EMC	"relating to electromagnetic compatibility"
2011/65/EU	"relating to restriction of hazardous substances"
2000/14/EC	"relating to outdoor noise"

and that the following standards and/or technical specifications are applied: EN 62841-1:2015+A11:2022, IEC 62841-4-4:2020, EN ISO 11806-1:2022, EN 55014-1:2017+A11:2020, EN 55014-2:1997+A1:2001+A2:2008, EN IEC 63000:2018.



SMP Svensk Maskinprovning AB, Box 4053, SE-904 03 Umeå, Sweden has performed a voluntary type examination according to annex IX of 2006/42/EC. Certificate No: SEC/24/2592.

Notified body: 0404, SMP Svensk Maskinprovning AB has also verified agreement with annex VI of the council's directive 2000/14/EC.

For information relating to noise emissions, refer to *Technical data on page 18*.

Huskvarna, 2024-05-25

Two handwritten signatures in black ink. The first signature is on the left and the second is on the right, both appearing to be in cursive script.

Mr. Stefan Holmberg, R&D Director, Technology Management, Husqvarna AB, SWEDEN

Responsible for technical documentation

UK Declaration of Conformity

We, **Husqvarna AB**, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declare on our sole responsibility that the product:

Description	Battery-operated Grass Trimmer
Brand	Husqvarna
Type / Model	520iLX
Identification	Serial numbers dating from 2024 and onwards

complies fully with the following UK regulations:

Regulations
The Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
The Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001

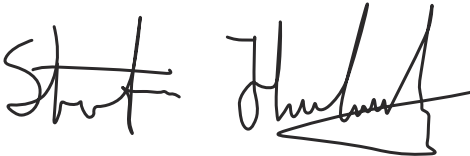
and that the following standards and/or technical specifications are applied: IEC62841-1:2015; IEC 62841-4-4:2020, EMC EN 61000-4-2:2009; EN 61000-4-3:2006+A1:2008, EN 55014-1:2017+A11:2020, EN IEC 63000:2018.

UK Importer:
Husqvarna UK Ltd
Preston Road, Co. Durham
DL5 6UP

Approved body: 0888, HORIBA MIRA Certification Ltd.
Watling Street, Nuneaton, Warwickshire, CV10 0TU,
UK has certified conformity with the Outdoor Noise
Regulations of 2001, conformity assessment procedure:
Schedule 9.

For information relating to noise emissions, refer to
Technical data on page 18.

Husqvarna, 2024-05-25



Stefan Holmberg, R&D Director, Technology
Management, Husqvarna AB

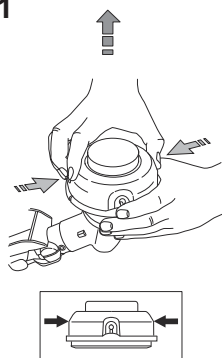
Responsible for technical documentation

**UK
CA**

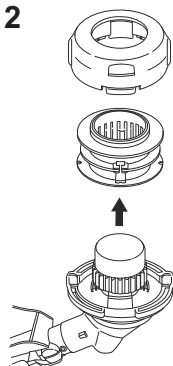
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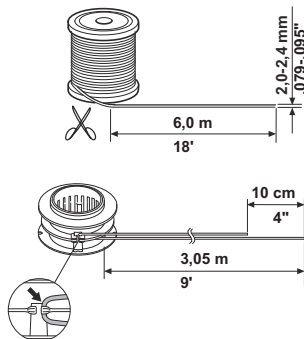
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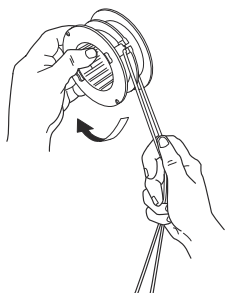
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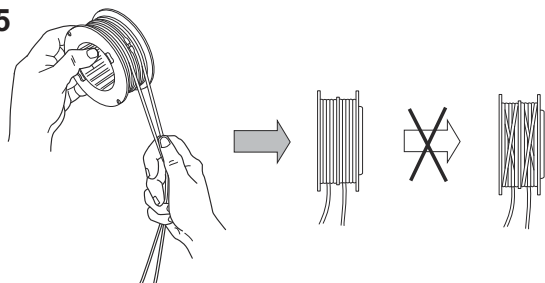
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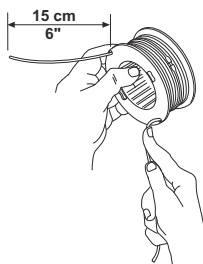
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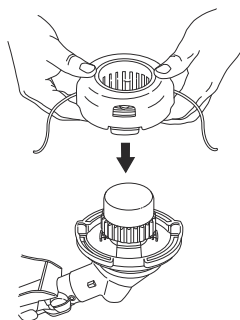
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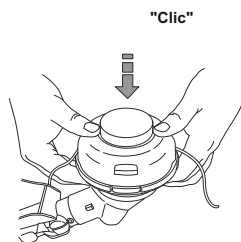
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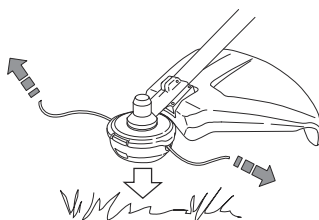
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8



9



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www.husqvarna.com

Original instructions



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2024-06-07