



**BLUEBIRD
INDUSTRIES**

Battery-powered pruner

CS 22-08



Product user manual

-translation of the original instructions-

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Dear customer,

Thank you for choosing Blue Bird, we develop and manufacture our quality products to meet the needs of our customers. The products are designed to be reliable even in extreme conditions. Blue Bird is also synonymous with premium service quality.

Our specialized dealers guarantee competent advice and instruction, as well as comprehensive support. We thank you for the trust you have placed in us and hope you will be happy working with your Blue Bird product.



WARNING! Read the warnings and safety instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Keep all warnings and instructions for future reference.

Technical specifications

Model	CS 22-08
Voltage rate	36 v
Power rate	350 w
Switch	Electronic continuous speed adjustment
Chain speed	11 m/s
Cutting capacity	150 mm
Driving	7"(175 mm) Slot: 0.043"(1.1 mm)
Saw chain	1/4"(6.35)
Guide teeth	48
Chain sprocket	7
Chain lubrication	Self-regulating oil pump

Symbols

Below are the symbols used in this tool. Before using it, understand their meaning.



Read, understand, and follow the operating instructions guide



Do not expose to rain



Disconnect it from the tool in case of wire damage or cutting



Warning/danger



Wear safety glasses



Wear protective clothing



Wear ear protection



Non-slip shoes



This symbol shows the direction of chain rotation.



This symbol indicates the chain oil tank.



Do not dispose of the product with household waste.



Observe the safety warnings about kickback and take the necessary precautions.

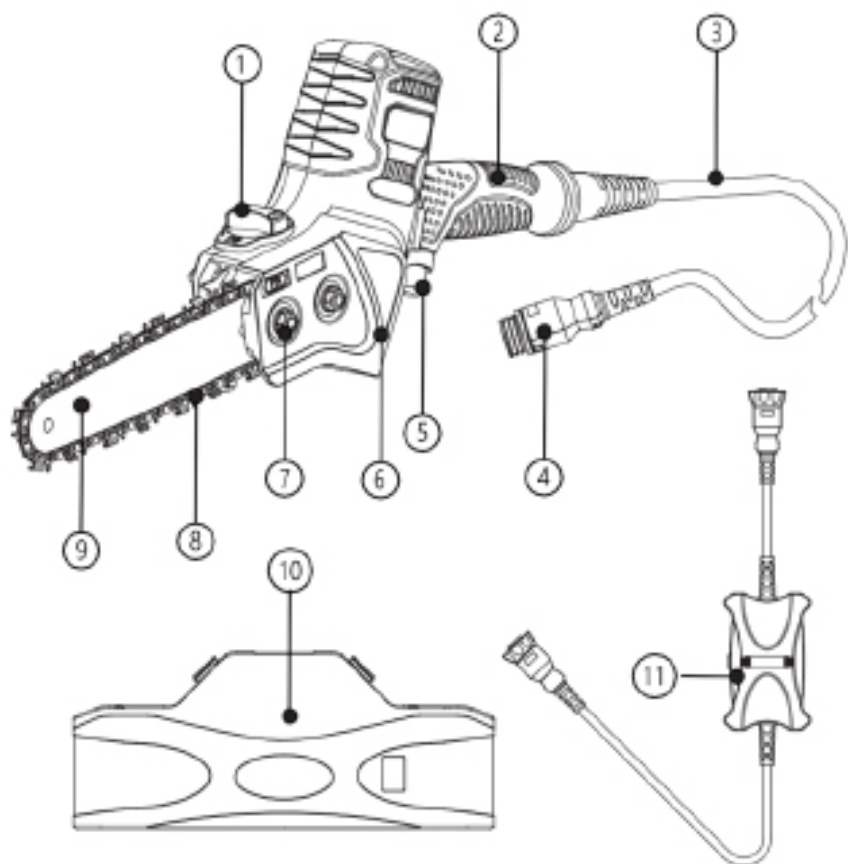


Protect the battery from heat and fire.



Protect the battery from rain and moisture, do not immerse it in liquids.

Attached parts



1	Oil tank cap	8	Saw chain
2	Main handle	9	Guide bar
3	Power cable	10	Battery pack
4	Device plug	11	Control unit
5	Trigger		
6	Chain sprocket cover		
7	Locked nut		

Safety precautions

The pruner is designed for cutting wood, pruning and felling small-diameter trees, and maintaining garden trees.

Intended use

- (1) Batteries and chargers not explicitly approved for the saw by Blue Bird may cause a fire or explosion. This can cause serious or fatal injuries and property damage.
- (2) Using the saw, battery, or charger for purposes for which they were not designed may cause serious or fatal injuries and property damage may occur.

Battery usage guide:

Please check the user manual inside the battery accessory package.

Charger usage guide:

Please check the user manual inside the battery accessory package.

User requirements



Warning!

Users who have not received instructions do not know and cannot assess the dangers of the pruner, battery, and charger. The user or others may be seriously injured or killed. Read the instruction manual, make sure you understand it, and keep it in a safe place for reference. Read the instruction manual, make sure you understand it, and keep it in a safe place for reference.

Make sure the user meets the following requirements:

- (1) The user is physically, sensorily, and mentally able to use the pruner, battery, and charger and to work with them. If the user is able to use the equipment but has physical, sensory, or mental restrictions, the user may work with the equipment only under supervision or after receiving instructions from a responsible person.
- (2) The user is an adult.
- (3) The user has received instructions from a Blue Bird service dealer or another expert before using the pruner for the first time and before using the charger.
- (4) The user is not under the influence of alcohol, medication, or drugs.

If the user is using a pruner for the first time: Practice sawing round logs on a sawhorse or stand. If in doubt: Contact a Blue Bird service dealer.

Clothing and equipment

- (1) Clothing and equipment Long hair can be pulled into the pruner during operation. The user can be seriously injured. Tie back long hair and secure it so it cannot be pulled into the pruner.
- (2) Objects can be thrown into the air at high speed during operation. The user may be injured.
- (3) Falling objects may cause head injuries.
- (4) Dust may be raised during work. The raised dust may damage the respiratory tract and trigger allergic reactions.
 - a. Wear safety glasses. Safety glasses are available for purchase of adequate safety, tested according to EN 166 or national standards and bearing the corresponding mark.
 - b. Blue Bird recommends wearing a face mask.
 - c. Wear a long-sleeved top.
- (5) Inappropriate clothing may get caught in wood or brush and may become entangled in the pruner. Users who do not wear appropriate clothing may be seriously injured.
 - a. Wear tight-fitting clothing.
 - b. Remove scarves and jewelry.
- (6) The user may come into contact with the rotating saw chain during work. The user may be seriously injured.
 - a. Wear long pants of the appropriate cut protection class appropriate. The cut protection class depends on the maximum speed of the chain.
- (7) The user may cut themselves on the wood while working. The user may come into contact with the saw chain during cleaning or maintenance. The user may be injured.
 - a. Wear work gloves made of sturdy material.
- (8) Wearing inadequate footwear may cause the user to slip and fall. If the user comes into contact with the rotating saw chain, they may suffer cuts. The user may be injured.
 - a. Wear pruning boots of the appropriate cut protection class appropriate. The cut protection class depends on the maximum speed of the chain.

Work area and surroundings

Pruner

- (1) Bystanders, children, and animals are not aware of the dangers of the pruner and of objects thrown into the air and cannot assess them. Bystanders, children, and animals may be seriously injured.
 - a. Keep bystanders, children, and animals away from the work area.
- (2) The pruner is not waterproof. If you work in the rain or in a damp environment, electric shock may occur. The user may be injured and the pruner may be damaged.
 - a. Do not work in the rain or in a damp environment.
- (3) The pruner's electric motor may produce sparks. Sparks may cause fires and explosions in a flammable or explosive environment. This may cause serious injury or death and property damage.
 - a. Do not work in a flammable or explosive environment.

Pruner safety conditions

The pruner is in safe condition if the following points are observed:

- (1) The saw is not damaged.
- (2) The saw is clean and dry.
- (3) The chain catcher is not damaged.
- (4) The chain trigger works properly.
- (5) The controls work properly and have not been modified.
- (6) The chain lubrication works properly.
- (7) The wear marks on the chain sprocket are not deeper than 0.5 mm.
- (8) A combination of guide bar and saw chain recommended in this instruction manual is installed.
- (9) The guide bar and chain are correctly installed.
- (10) The chain is properly tensioned.
- (11) Only original Blue Bird accessories designed for this saw are installed.
- (12) The accessories are mounted correctly.
- (13) The oil tank is closed.



Warning!

If the product does not comply with safety requirements, the components will no longer function properly or the safety devices may be rendered inoperative. This can lead to serious or fatal injuries.

- (1) Work only with an undamaged pruner. If the saw is dirty or wet: Clean the saw and let it dry.
- (2) Work only with an undamaged catalyst. Never modify your pruner. Exception: Install a combination of guide bar and saw chain recommended in this instruction manual.
- (3) If the controls do not work properly: Do not use your saw.
- (4) Install only original accessories designed for this model of pruner.
- (5) Install the guide bar and chain as described in this instruction manual.
- (6) Install the accessories as described in this instruction manual or in the instruction manual provided with the accessory.
- (7) Never insert objects into the saw openings.

Guide bar safety conditions

The guide bar is in safe condition if the following points are observed:

- (1) The guide bar is not damaged.
- (2) The guide bar is not bent.
- (3) The minimum groove depth is maintained.
- (4) The bars are free of burrs.
- (5) The bar groove is not crushed or crooked.



Warning!

If the guide bar is not in safe condition, it can no longer properly support and guide the saw chain. The rotating saw chain can jump off the guide bar. This can lead to serious or fatal injuries.

- (1) Work only with an undamaged guide bar.
- (2) If the groove depth is less than the minimum depth: Install a new guide bar.
- (3) Deburr the guide bar after finishing the work.
- (4) If you have any questions: Contact your Blue Bird service dealer.

Pruner chain safety condition

The chain is in safe condition if the following conditions are met:

- (1) The saw chain is not damaged.
- (2) The saw chain has been sharpened as specified.
- (3) The height of the cutter depth gauges is between the service marks.
- (4) The length of the cutters is between the wear marks.



Warning!

Parts that are not in safe condition cannot function properly and safety devices may be disabled. People can be seriously injured or killed.

- (1) Never use a damaged chain.
- (2) Sharpen the chain as specified.
- (3) In case of doubt: Contact a Blue Bird service dealer.

Operation

Sawing

- (1) In certain situations the user may no longer be able to concentrate on the work. The user may trip, fall, and be seriously injured.
 - a. Stay calm and plan your work.
 - b. In low light and poor visibility conditions: do not use the pruner.
 - c. Use the pruner alone.
 - d. Do not work above shoulder height.
 - e. Watch out for obstacles.
 - f. Stand securely on the ground when using the pruner and maintain your balance. If working at height: use a lift bucket or safe scaffolding.
- (2) The moving saw chain can cut the user. The user may be seriously injured.
 - a. Do not touch the moving saw chain.
- (3) The moving saw chain heats up and expands.

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- c. Use the pruner alone.
- d. Do not work above shoulder height.
- e. Watch out for obstacles.
- f. Stand securely on the ground when using the pruner and maintain balance. If working at height: use a lift bucket or a secure scaffold.

(2) The moving saw chain can cut the user. The user may be seriously injured.

- a) Do not touch the moving saw chain.

(3) The moving saw chain heats up and expands. If the chain is not sufficiently cooled and retensioned, the chain may jump off the guide bar or break. This can result in serious injuries and material damage.

- a. Use a chain lubricant.
- b. Regularly check the chain tension during work. If the chain tension is too loose: tighten the saw chain.

(4) If the pruner starts to behave differently or unusually during operation, it may be in an unsafe condition. This can result in serious injuries and material damage.

- a. Stop work and consult a dealer.

(5) The pruner may cause vibrations during operation.

- a. Wear gloves.
- b. Take breaks.
- c. If signs of poor circulation appear: consult a doctor.

(6) If the moving saw chain hits a solid object, sparks may occur. Sparks can cause fires in a flammable environment. This may cause serious injury or death and property damage.

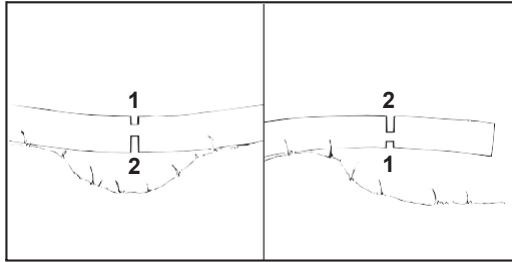
- a. Do not use the pruner in a flammable environment.

(7) The chain runs for a short period after releasing the trigger. People can be seriously injured.

- a. Wait for the saw chain to stop moving.

If you cut wood under tension, the guide bar may get stuck. The user may lose control of the pruner and be seriously injured.

(8) Start by making a relief cut on the compression side (1) and then make a separation cut on the tension side (2).



Limbing

(1) If the lower part of the felled tree is limbed first, it will no longer be supported on the ground by the branches. The tree may move during cutting work. This can lead to serious or fatal injuries.

- a. Cut the large branches on the underside of the tree only after it has been cut.
- b. Do not stand on the trunk while limbing it.

Felling

(1) Inexperienced users cannot assess the dangers of felling a tree.

This can cause serious or fatal injuries and property damage.

- a. If you have any questions: Do not fell the tree alone.

(2) A tree and branches may fall on bystanders or objects during the felling operation. This can cause serious or fatal injuries and property damage.

a. Determine the direction of the fall so that the area where the tree falls is clear.

b. Do not allow bystanders, children, or animals to be within a distance of 2.5 tree lengths from the felling site.

- c. Observe the crown of the tree and the canopies of nearby trees and keep away from falling branches.

(3) When the tree falls, the trunk may break or spring back toward the user. This can lead to serious or fatal injuries.

- a. Plan a lateral escape route behind the tree.
- b. Walk backward along the escape route and watch the tree as it falls.
- c. Do not walk backward along slopes.

(4) Obstacles in the work area and on the escape route may hinder the user. The user could trip and fall. This can lead to serious or fatal injuries.

- a. Remove all obstacles from the work area and the escape route.

(5) If the hinge, the stabilizing strap, or the strap is cut too early

of retention, the intended direction of fall cannot be controlled or the tree may fall prematurely. This can cause serious or fatal injuries and property damage.

- a. Do not cut into or through the hinge.
- b. Cut the stabilizing strap or the retention strap last.
- c. If the tree begins to fall too early: Abandon the felling cut and retreat along the escape route.

(6) Kickback can occur if the rotating chain in the upper quadrant of the bar nose comes into contact with a hard felling wedge and is suddenly stopped. This can lead to serious or fatal injuries.

- a. Use felling wedges made of aluminum or plastic.

(7) If the tree does not fall to the ground or gets caught in another tree, the operator cannot finish the operation in a controlled manner.

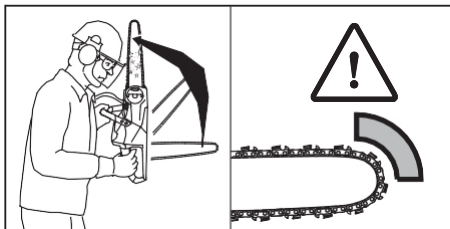
- a. Stop the felling operation and use a cable winch or a suitable vehicle to pull the tree to the ground.

Reactive forces

Kickback

Kickback can be caused by the following reasons:

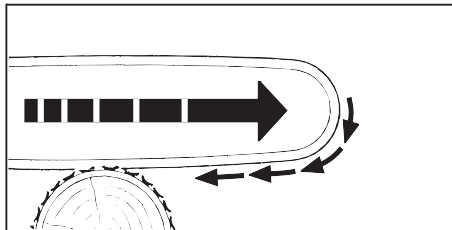
- (1) The rotating saw chain in the upper quadrant of the bar nose comes into contact with a hard object and is suddenly stopped.
- (2) The rotating saw chain is pinched at the bar nose.



If kickback occurs, the saw can be thrown upward toward the operator. The operator may lose control of the saw and be seriously or fatally injured.

- a. Hold the saw firmly with both hands.
- b. Use the saw as described in this instruction manual.
- c. Do not cut with the upper quadrant of the bar nose.
- d. Always cut with a sharp and properly tensioned chain.
- e. Use a low-kickback chain.
- f. Use a guide bar with a narrow radius nose.
- g. Always cut with the chain at maximum speed.

Pushback



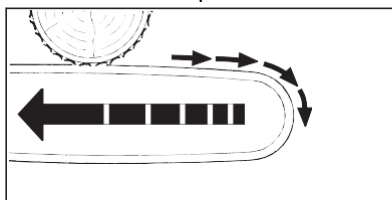
The saw is pushed away from the operator when the lower part of the bar is used for cutting.



Warning!

If the rotating chain comes into contact with a hard object and is suddenly pinched, the saw is abruptly pushed away from the operator. The operator may lose control of the saw and be seriously or fatally injured.

- Hold the saw firmly with both hands.
- Use the saw as described in this instruction manual.
- Keep the guide bar straight in the cut.
- Properly apply the spike bumper.
- Always cut with the chain at maximum speed.



Pull-in

The saw is pushed back toward the operator when the upper part of the bar is used for cutting.

If the rotating chain comes into contact with a hard object and is suddenly pinched, the saw can be abruptly pushed back toward the operator. The operator may lose control of the saw and be seriously or fatally injured.

- Hold the saw firmly with both hands.
- Use the saw as described in this instruction manual.
- Keep the guide bar straight in the cut.
- Always cut with the chain at maximum speed.

Cleaning, maintenance, and repairs

- (1) The saw may start unintentionally if the battery is left in place during cleaning, maintenance, or repair operations. This can result in serious injuries and material damage.
 - a. Disconnect the power source.
 - b. Disconnect the pruner head.
 - c. Remove the guide bar and the saw chain.
- (2) Aggressive detergents, high-pressure cleaners, or sharp objects can damage the saw, the guide bar, the chain, the battery, and the charger. If the saw, the guide bar, the chain, the battery, or the charger are not cleaned properly, the components may no longer function correctly or the safety devices may be rendered inoperative. This can lead to serious injuries.
 - a. Clean the saw, the guide bar, the saw chain, the battery, and the charger as described in these operating instructions.
- (3) If the saw, the guide bar, the chain, the battery, or the charger are not properly maintained, the components may no longer function correctly or the safety devices may be rendered inoperative. This can lead to serious or fatal injuries.
 - a. Do not attempt to maintain or repair the saw, the battery, or the charger.
 - b. If the saw, the battery, or the charger require service or repairs: Contact your Blue Bird service dealer.
 - c. Carry out maintenance or repair of the guide bar and the chain as described in this instruction manual.
- (4) The user may be cut by the cutting edges during cleaning or maintenance of the saw chain. This can lead to personal injury.
 - a. Wear work gloves made of durable material.

Preparing the saw for operation

Carry out the following steps before starting work:

- (1) Make sure that the following components are in safe condition:
 - a. Chainsaw
 - b. Guide bar
 - c. Saw chain
 - d. Battery
 - e. Charger
- (2) Check the battery
- (3) Fully charge the battery
- (4) Clean the saw

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 - b. Guide bar
 - c. Saw chain
 - d. Battery
 - e. Charger
- (2) Check the battery
- (3) Fully charge the battery
- (4) Clean the saw
- (5) Install the bar and chain
- (6) Tension the saw chain
- (7) Fill with chain oil
- (8) Check the controls
- (9) Check the chain lubrication
- (10) If you cannot perform this work: Do not use the pruner and contact your Blue Bird service dealer.

Saw assembly



For all these operations, it is necessary to disconnect the power tool.

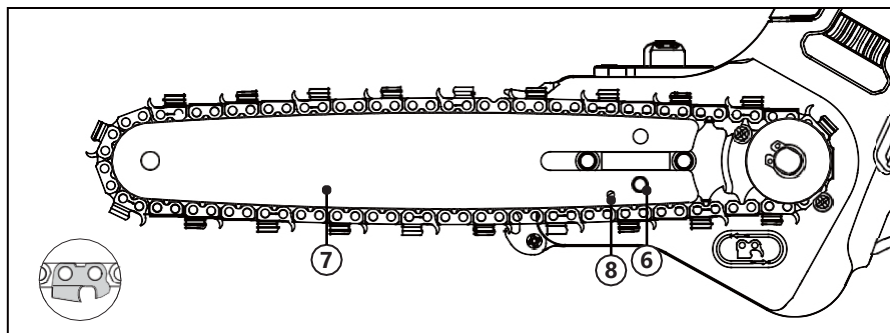
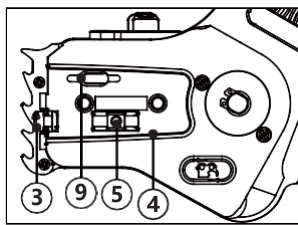
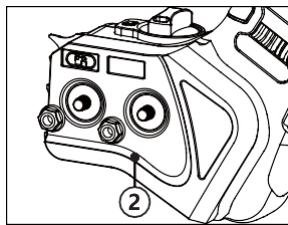
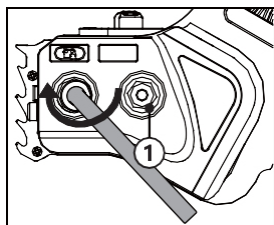
Mounting the bar and chain

The bar and chain combinations that can be used with the sprocket are listed in the specifications.

- (1) Turn off the pruner, remove the battery.
- (2) Turn the fixed nut "1" counterclockwise until the chain sprocket cover "2" can be removed.
- (3) Remove the chain sprocket cover "2".
- (4) Turn the adjustment screw "3". Position the guide bar "4" on the main body "5" so that the pins "6" on the main body "5" fit into the hole "7" of the guide bar.

Note: the guide bar "7" can be in either direction. The logo on the guide bar can also be upside down.

- (5) Insert the chain into the groove of the bar so that the arrows on the links on the top of the bar point in the direction of rotation.
- (6) Turn the adjustment screw "3" until it stops.



NOTE: mount the guide bar with the adjustment screw "3" and the chain on the saw and check the following points:

- a. The cutter follows the arrow pointing in the direction of rotation as the mark " " .
- b. The chain links are inserted into the teeth of the sprocket.
- c. The cutter head is positioned in the slot of the guide bar " " .

(7) Turn the adjustment screw "3" clockwise until the chain fits perfectly to the bar. Make sure that the drive link tabs are engaged in the groove of the bar. The guide bar and chain are positioned against the saw.

(8) Align the oil inlet "8" and the oil port "9".

(9) Install the sprocket cover so that it is flush with the saw.

(10) If the sprocket cover is not flush with the saw: Turn the knob and reinstall the sprocket cover.

Removing the bar and chain

(1) Turn the fixed nut "1" counterclockwise until the chain sprocket cover can be removed.

(2) Remove the sprocket cover.

(3) Turn the adjustment screw "3" counterclockwise until it stops. The chain is now loose.

(4) Remove the bar and chain.

Tensioning the saw chain

The saw chain expands or contracts during cutting work. The chain tension changes accordingly. Regularly check the chain tension during operation and adjust if necessary.

- (1) Turn off the pruner, disconnect the power source.
- (2) Turn the fixed nut "1" counterclockwise. The fixed nut and the button are loosened.
- (3) Turn the adjustment screw "3" clockwise until:
 - a. The chain fits perfectly to the bottom of the bar.
 - b. The chain can still be easily pulled along the bar with two fingers.
- (4) If using a Carving Guide Bar: Turn the adjustment screw clockwise until the drive links on the underside of the bar are only half visible.
- (5) If the chain can no longer be pulled by hand along the bar: Turn the adjustment screw counterclockwise until the chain can be easily pulled along the bar with two fingers.
- (6) Turn the fixed nut clockwise until the chain sprocket cover is firmly in place.

Filling chain oil

Chain oil lubricates and cools the rotating chain.

- (1) Turn off the pruner, remove the battery.
- (2) Place the pruner on a flat surface so that the oil tank cap is facing upwards.
- (3) Use a damp cloth to clean the tank cap and the surrounding area.
- (4) Turn the tank cap counterclockwise until it can be removed.
- (5) Remove the oil tank cap.
- (6) Fill with chain oil, being careful not to spill oil and not to overfill the tank.
- (7) Place the tank cap on the tank opening.
- (8) Press the tank cap down, turn it clockwise until it stops, and tighten it firmly.
- (9) The oil tank is closed.

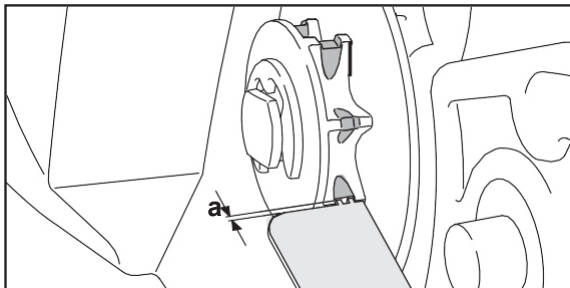
Pruner test



For all these operations, it is necessary to disconnect the power tool.

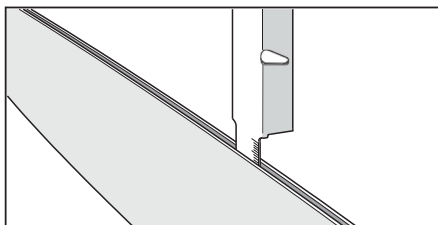
Chain sprocket check

- (1) Turn off the pruner, remove the battery.
- (2) Remove the chain sprocket cover.
- (3) Remove the bar and the chain.
- (4) Use a caliper to check for wear marks on the sprocket.
- (5) If the wear marks are deeper than $a = 0.5 \text{ mm}$: Do not use the pruner and contact your Blue Bird service dealer. The chain sprocket must be replaced.



Guide bar check

- (1) Turn off the pruner, remove the battery.
- (2) Remove the chain and the guide bar.
- (3) Measure the depth of the bar groove with the Blue Bird gauge scale.
- (4) Install a new guide bar if any of the following apply:
 - a. The guide bar is damaged.
 - b. The measured depth of the bar is less than the minimum depths specified
 - c. The bar groove is too narrow or widened.
- (5) If you have any questions: contact your Blue Bird service dealer.



Chain lubrication check

- (1) Hold the guide bar over a light-colored surface.
 - (2) Turn on the saw.
- The chain oil is thrown off the chain and is visible on the light surface.
The chain lubrication is working properly.

If you do not see the chain oil:

- (3) Fill with chain oil.
- (4) Check the chain lubrication again.
- (5) If the chain oil is still not visible on the light surface:
Do not use the pruner and contact your BlueBird service dealer. The chain lubrication is defective.

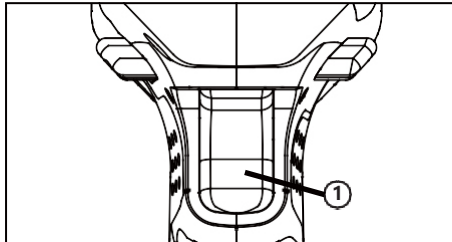
Startup check

(1) Keep bystanders at least 50' away during use. Objects may be thrown or bounce in all directions.

(2) Connect the plug to the controller socket, then connect the controller to the battery.

(3) Turn the tool on/off

(1) Push the actuator as shown by the arrow and the "G" mark, and pull the trigger "1"; the switch is the stepless electronic speed adjustment. Adjust the speed according to the force applied.



Pruner operation

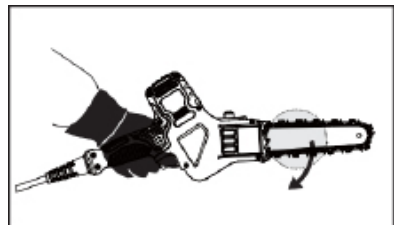
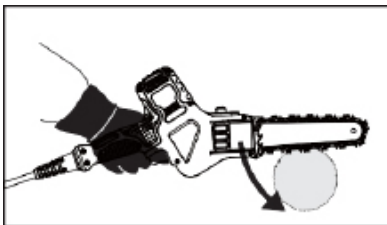
Holding and controlling the pruner

a. Hold and control the saw with your hand on the main handle.

Cutting

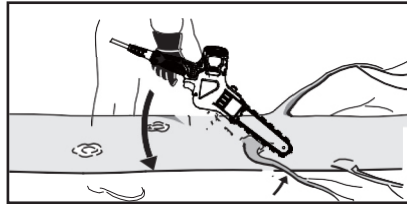
If kickback occurs, the saw can be thrown upward toward the operator. This can lead to serious or fatal injuries.

- a. Always cut with the chain at maximum speed.
- b. Do not cut with the upper quadrant of the bar nose.
- c. Start cutting with the chain at maximum speed and keep the guide bar vertical.
- d. Engage the tip of the bumper and use it as a fulcrum.
- e. Guide the full width of the bar into the wood and reposition the bumper tip as needed.
- f. Take the weight of the saw at the end of the cut.



Limbing

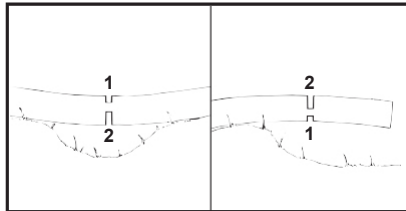
- Support the saw on the trunk.
- With the chain running at full speed, pivot the bar upward against the branch.
- Cut the branch with the top of the bar.
- If the branch is under tension: Make the relief cut (1) from the compression side and then make the tension cut (2) from the tension side.



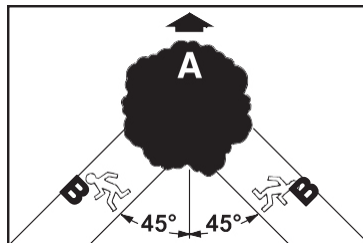
Felling

Determination of the direction of fall and the escape route

- Determine the direction of the fall so that the area where the tree falls is clear.
- Observe the following points when planning the escape route (B):



- Escape route (B) at a 45° angle to the direction of fall (A).
- No obstacles on the escape route (B).
- You can observe the top of the tree.
- If the escape route (B) is on a slope, it must be parallel to the slope.



2. Preparation of the work area at the base of the tree

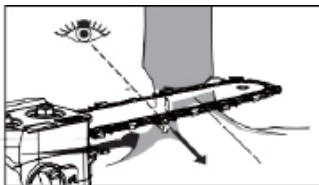
- (1) Remove obstacles from the work area at the base of the tree.
- (2) Remove growth from the base of the tree.



- (3) If the tree has large and healthy roots: First make a vertical cut and then a horizontal one, and remove the resulting piece.

3. Cutting the felling notch

The felling notch determines the direction of the tree's fall. The specific country regulations for making the felling notch must be observed.



- (1) Position the saw so that the felling notch is at a right angle to the direction of fall and the saw is close to the ground.
- (2) Make the horizontal cut.
- (3) Make the angled cut at 45° to the horizontal cut.

(1) If the wood is healthy and long-fibered: Observe the following points when making sapwood cuts:

- a. The cuts must be the same on both sides.
- b. The cuts must be at the same height as the bottom of the felling notch.
- c. The width of the cuts is $1/10$ of the trunk diameter.

The trunk does not splinter when the tree falls.

Cleaning the saw

Cleanliness

- a. Turn off the pruner, remove the battery.
- b. Clean the hedge trimmer with a damp cloth or with Blue Bird resin solvent.
- c. Remove the chain sprocket cover.
- d. Clean the area around the sprocket with a damp cloth or with Blue Bird resin solvent.
- e. Remove foreign objects from the battery compartment and clean it with a damp cloth.
- f. Clean the electrical contacts in the battery compartment with a soft brush.
- g. Install the chain sprocket cover.

Cleaning the bar and chain

- Turn off the pruner, engage the chain brake, and remove the battery.
- Remove the bar and chain.
- Clean the oil port (1), the oil inlet hole (2), and the bar groove (3) with a soft brush or with Blue Bird resin solvent.
- Clean the saw chain with a soft brush or with Blue Bird resin solvent.
- Install the bar and chain.

Maintenance

(1) Chain sprocket maintenance

- The chain sprocket cannot be repaired by the user.
- If the chain sprocket is defective or damaged: Do not use the pruner and contact your Blue Bird service dealer.

(2) Deburring the guide bar

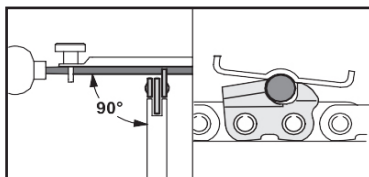
A burr can accumulate on the outer edge of the guide bar.

- Remove the burr with a flat file or with the guide bar dressing tool.
- If you have any questions: Contact your dealer.

(3) Sharpening the saw chain

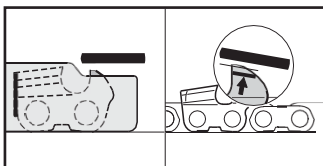
Sharpening saw chains correctly requires a lot of practice.

Files, filing aids, sharpeners, and the booklet "Sharpening Saw Chains" help you achieve the right results. Blue Bird recommends having the chains resharpened by a Blue Bird service dealer.



(4) File each cutter with a round file so as to observe the following points:

- The round file matches the pitch of the chain.
- File from the inside to the outside of the cutter.
- Hold the file at a right angle to the guide bar.
- Maintain the sharpening angle.
- File the depth gauges with a flat file so that they are level with the filing gauge and parallel to the service mark. The filing gauge must match the chain pitch.
- In case of questions: Contact your BlueBird service dealer.



General safety warnings for power tools

(1) Introduction

This chapter reproduces the general pre-formulated safety precautions specified in IEC 60745 for portable electric power tools.

Blue Bird is required to publish these texts. The safety precautions and warnings to avoid electric shock indicated in section “2) Electrical precautions” do not apply to Blue Bird battery-powered power tools.



Warning!

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Keep all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your power tool powered by mains electricity (corded) or battery (cordless).

(2) Workplace safety

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

(3) Electrical safety

- a. The plugs of power tools must match the outlet. Never modify the plug in any way. Do not use adapter plugs with grounded power tools. Unmodified plugs and matching sockets will reduce the risk of electric shock.
- b. Avoid body contact with grounded surfaces such as pipes, radiators, stoves, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- c. Do not expose power tools to rain or wet conditions. Water entering a power tool increases the risk of electric shock.
- d. Do not abuse the cord. Never use the cord for carrying, hanging, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cables increase the risk of electric shocks.
- e. When using a power tool outdoors, use an extension cord suitable for outdoor use. The use of an extension cord suitable for outdoor use reduces the risk of electric shock.
- f. If it is unavoidable to use a power tool in a damp location, use a supply protected by a residual current device (RCD). The use of an RCD reduces the risk of electric shock.

(4) Personal safety

- a. Pay attention to what you are doing and use common sense when operating a power tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b. Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-slip safety shoes, helmet, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. Prevent unintentional starting. Make sure the switch is off before connecting to the power source and/or battery, picking up, or carrying the power tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on increases the risk of accidents.
- d. Remove any adjusting key or wrench before turning on the power tool. A wrench or key left attached to a rotating part of the power tool may result in personal injury.
- e. Do not exceed limits. Always maintain proper support and balance. This allows you to better control the power tool in unexpected situations.
- f. Dress appropriately. Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts. Loose clothing, jewelry, or long hair can become entangled in moving parts.
- g. If devices are provided for the connection of dust extraction and collection systems, ensure that these are connected and used properly. The use of dust collection can reduce dust-related hazards.
- h. Do not let the familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. Careless action can cause serious injury in a fraction of a second.

(5) Use and care of power tools

- a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and more safely at the rate for which it was designed.
- b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c. Unplug from the power source and/or remove the battery, if removable, from the power tool before making any adjustments, changing accessories, or storing power tools. These preventive safety measures reduce the risk of accidentally starting the power tool.
- d. Keep inactive power tools out of the reach of children and do not allow people unfamiliar with the power tool or these instructions to use the power tool. Power tools are dangerous in the hands of untrained users.

Pruner safety warnings

- (1) When the pruner is running, make sure its chain does not touch anything. A moment of inattention while operating chainsaws can result in your clothing or body becoming entangled with the pruner.
- (2) Always hold the pruner with your right hand on the rear handle and your left hand on the front handle. Holding the pruner the other way increases the risk of injury and should be avoided
- (3) Hold the power tool only by the insulated gripping surfaces, because the saw chain may contact hidden electrical wires. Saw chains that touch a live wire make the metal parts of a power tool live and could expose the user to electric shock.
- (4) Wear safety glasses and hearing protection. Additional protective equipment for head, hands, legs, and feet is recommended. Proper protective clothing helps reduce the risk of injury caused by flying wood chips and accidental contact with the pruner chain.
- (5) Do not use a pruner in a tree. There is a greater risk of injury when working in a tree.
- (6) Always maintain proper footing and use the pruner only if you are on a firm, secure, and flat surface. A slippery surface or unstable support such as a ladder could cause the operator to lose control of the pruner.
- (7) When cutting a branch that is under tension, beware of kickback. When the tension in the wood fibers is released, the spring-loaded branch may strike the operator and/or throw the pruner out of control.
- (8) Use extreme caution when cutting bushes and saplings. Thin material can catch the saw chain and be whipped toward you or jeopardize your balance.
- (9) Carry the pruner by the front handle with the pruner switched off and away from your body. When transporting or storing the pruner, always fit the guide bar cover. Proper handling of the pruner reduces the likelihood of accidental contact with the moving chain.
- (10) Follow the instructions for lubrication, chain tension, and accessory replacement. An improperly tensioned or lubricated chain can break or increase the possibility of kickback.
- (11) Keep handles dry, clean, and free from oil and grease. Greasy and oily handles are slippery and cause loss of control.
- (12) Only cut wood. Do not use the pruner for unintended purposes. Example: do not use the pruner to cut plastic, masonry, or non-wood construction materials. Using the pruner for operations other than those intended could result in a hazardous situation.

Causes and prevention of kickback by the operator

- (1) Kickback can occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut.
- (2) Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar upward and back toward the operator.
- (3) Pinching the saw chain along the top of the guide bar can push the guide bar rapidly back toward the operator. Both of these reactions can cause loss of control of the saw, with the risk of serious personal injury.
- (4) Do not rely solely on the safety devices built into your saw.
- (5) As users of a pruner, you should take several measures to avoid accidents or injuries while cutting.
- (6) Kickback is the result of improper use of the tool and/or incorrect operating procedures and can be avoided by taking the appropriate precautions as indicated below:
 - a. Maintain a firm grip, with your thumbs and fingers wrapped around the pruner handles, with both hands on it and position your body and arm to allow you to withstand kickback forces. The Kickback forces can be controlled by the operator, if the proper precautions are taken. Do not let go of the pruner.
 - b. Do not overreach and do not cut above shoulder height. This helps prevent unintentional tip contact and allows for better control of the pruner in unexpected situations.
 - c. Use only replacement bars and chains specified by the manufacturer. Incorrect replacement bars and chains can cause the chain to break and/or kickback.
 - d. Follow the manufacturer's instructions for sharpening and maintaining the chain from the manufacturer. Lowering the depth gauge height can lead to increased kickback.

Assistance

If you have any questions regarding the power tool, contact us immediately (contact information is on the cover). Our professionals will solve the problems for you, and our qualified engineers will repair your power tools.

Disclaimer

Blue Bird Industries reserves the right to make any design and manufacturing changes deemed necessary to improve performance. Thank you for your understanding. If there are differences between the physical tool and the graphic images and texts in this manual, consider the physical object as the most accurate.

EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA' EUROPEA - GEUJIKVORMIGHEIDSVERKLARING - EC DEKLARATION I OVERENSSTEMMELSE - DECLARAÇÃO CE DE CONFORMIDADE - EY ILMOITUS - FORSAKRAN OM OVERENSSTAMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

1) MANUFACTURER – HERSTELLER – FABRICANT – FABRICANTE – COSTRUTTORE – CONSTRUCTEUR – PRODUCTEN – FABRICANTE – VALMISTAJA – TILLVERKARE – FABRIKANT – Κατασκευαστής – PRODUCT: Blue Bird Industries Fabbrica Motori SRL Via Due Camini 19, 36010 Zanè (VI), Italia

2) DESCRIPTION OF THE MACHINERY – BESCHREIBUNG DER MASCHINE – DESCRIPTION DE LA MACHINE – DESCRIPCION DE LA MAQUINARIA – DESCRIZIONE DELLA MACCHINA – BESCHRIJVING VAN DE MACHINE – BESKRIVELSE AF MASKINEN – DESCRIÇÃO DA MAQUINA – KONEEN NIMITYS – MATERIELSLAG – BESKRIVELSE AV MASKINERIET – ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ – OPIS MASZYN: POTATORE A BATTERIA – BATTERY PRUNER

a) MAKE – FABRIKAT – MARQUE – MARCA – MERK – MÆRKE – MARCA – MERKKI – FABRIKAT – FABRIKANT – MAPKA – MARKA: BLUE BIRD

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / ΤΥΠΟΣ / ΤΥΡ:

CS 22-08

2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato V – Sound Power Levels performed per annex V	
TIPO	Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA Sound Power Levels Measured / Sound Power Level Guaranteed LWA (dB)
CS 22-08	89 / 101

c) Il prodotto è conforme alle direttive - The product complies with the directives - Das Produkt entspricht den Richtlinien - Le produit est conforme aux directives - El producto cumple con las directivas:

- 2006/42/EC – 2014/30/EU – 2000/14/EC (2005/88/EC) – 2011/65/EU

d) Il controllo CE del campione di costruzione secondo la direttiva 2006/42/CE, Art 12.3(b) è stato eseguito presso:

The EC type examination test was carried out pursuant to Directive 2006/42/EC, Art 12.3(b) at:

Die EG-Baumusterprüfung nach Richtlinie 2006/42/EG, Art. 12.3(b) wurde durchgeführt bei:

L'examen CE de type conformément à la directive 2006/42/CE Art. 12.3(b) a été effectué par l'office de contrôle:

La prueba de examen CE de tipo se llevó a cabo de conformidad con la Directiva 2006/42 / CE, Art.12.3 (b) en:

- TÜV SÜD Product Service GmbH at Ridlerstraße 65, 80339 Munich, Germany No.0123 - Certificate No. M6A 105425 0010 Rev. 00

e) REFERENCE TO STANDARDS/HARMONIZED STANDARDS - VERWEIS AUF NORMEN/HARMONISIERTE NORMEN - REFERENCE AUX NORMES/NORMES HARMONISEES - REFERENCIA A ESTANDARES/ESTANDARES ARMONIZADOS - RIFERIMENTO ALLE NORME/NORME ARMONIZZATE - REFERENTIE NAAR STANDAARDEN/GEHARMONISEERDE STANDAARDEN - REFERENCE TIL STANDARDER/HARMONISEREDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS - VITTAUS STANDARDDEIHIN/YHTEISIIN STANDARDDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΦΟΡΑ ΣΤΑ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH: UNI EN ISO 12100:2010 EN 62841-1:2015 EN 11681-2:2011/A1:2017

e) Il caricabatterie (mod. KH24-1681420-2E) è stato fabbricato e distribuito in conformità con le seguenti direttive: 2014/35/EU, 2014/30/UE e 2011/65/UE The charger (mod. KH24-1681420-2E) has been manufactured and put on the market in accordance with the following directives: 2014/35/EU, 2014/30/UE and 2011/65/UE Das Ladegerät (mod. KH24-1681420-2E) wurde gemäß den folgenden Richtlinien hergestellt und vertrieben: 2014/35/EU, 2014/30/UE e 2011/65/UE Le chargeur (mod. KH24-1681420-2E) a été fabriqué et distribué conformément aux directives suivantes: 2014/35/EU, 2014/30/UE e 2011/65/UE El cargado (mod. KH24-1681420-2E) r fue fabricado y distribuido de acuerdo con las siguientes directivas: 2014/35/EU, 2014/30/UE e 2011/65/UE

Importato da - Imported by - Eingeführt von - Importé par - Importado por:



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ZANÈ (VI) – ITALIA 07-09-2021
The chairman – Der vorsitzender – Le président – El presidente – Il presidente – De voorzitter – Daglig leder – O presidente – Toimitusjohtaja – Verkställande direktör – Administrerende direktør – Ο ΠΡΟΕΔΡΟΣ - Prezes

VANDA VITELLA

(GB) Technical documentation maintained by
(F) Documentation technique maintenue par
(I) Documentazione tecnica conservata da
(DK) Teknisk dokumentation tilhåndhalden af
(FI) Teknisten asiakirjojen ylläpitäjä
(NO) Teknisk dokumentasjon vedlikeholdt av

(D) Technische Dokumentation aktualisiert durch
(E) Documentacion tecnica mantenida por
(NL) Technische documentatie onderhouden door
(P) Documentação tecnica mantida por
(SE) Teknisk dokumentation tilhållhandlaren av
(GR) τεχνικό φάκελο που τηρείται από

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VANDA VITELLA



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