

ENG

Translation of the original operating instructions manual



PRUNING SHEARS C45

Operating instructions

163529-A
01/2022

READ THE USER GUIDE CAREFULLY BEFORE USE

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1. INTRODUCTION

Dear Customer,

Thank you for purchasing your Pruning shears C45. Properly used and maintained, this equipment will give you years of satisfaction.



Warning

Your machine contains numerous recoverable or recyclable materials. Return it to your dealer or, failing this, to an approved servicing centre to be treated.



Comply with the regulations in force in your country as concerns environmental protection associated with your activity.



Warning

It is imperative that you read through the ENTIRE user's manual guide before using or servicing the tool. Always comply with the instructions and illustrations provided in the user's manual.

Throughout the user's manual guide you will find advisory notes and information entitled: NOTE, IMPORTANT, ATTENTION and WARNING.

Points marked "NOTE" indicate additional information.

Points marked "IMPORTANT" warn the user of a potential risk for the equipment.

Points marked "ATTENTION" warn the user of a potentially hazardous situations which if not avoided may result in minor injuries.

Points marked "WARNING" warn the user of a potentially hazardous situation which if not avoided may result in serious injury or death.

The warning  indicates that damage resulting from failure to comply with the procedures and instructions is not covered by the warranty and the owner will be liable for any repair costs.

Safety indications are also given on the tool; they remind you of the safety precautions to be taken. Identify and read these indications before using the tool. Immediately replace any indications that may become partially illegible or deteriorated.

Refer to Section 2.5, "Safety signage" for the location diagram of the safety stickers affixed to the tool.

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2. SAFETY

2.1. INTENDED USAGE

- The Pruning shears C45 is intended for wine and tree pruning, up to a diameter of 45 mm.
- The Pruning shears C45 must be operated from standing ground level or from a suitable platform that is completely stable and secure.
- The Pruning shears C45 is intended for outdoor use only.
- The Pruning shears C45 is not intended for any other use.
- Only original or manufacturer approved spare parts (e.g. blade kit, maintenance kit) may be fitted to the Pruning shears C45.
- The user is responsible for any accident resulting from improper use or unauthorized modification of the Pruning shears C45.

2.2. GENERAL POWER TOOL SAFETY WARNINGS



Warning

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Note

Save all warnings and instructions for future reference.

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

2.2.1. WORK AREA SAFETY

1. **Keep the work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control of the tool.

2.2.2. ELECTRICAL SAFETY

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

2.2.3. PERSONAL SAFETY

1. **Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or plugging in power tools with the switch in the on position can cause accidents.
4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.
7. **If devices are provided for connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
8. **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.

2.2.4. POWER TOOL USE AND CARE

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **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.
3. **Disconnect the plug from the power source and/or remove the battery pack, if detachable, if from the power tool before making any adjustment, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
5. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
8. **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.

2.2.5. BATTERY TOOL USE AND CARE

1. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

5. **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.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C (or 265°F) may cause explosion.
7. **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.

2.2.6. SERVICING

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
2. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

2.2.7. MANAGEMENT OF THE RECYCLING AND RECOVERY OF WASTE FROM YOUR TOOL

1. **When the tool reaches the end of its life, PELLENC keeps the end of life sheet of the equipment at disposal.** The end of life sheet provides instructions for safely removing components.

2.3. SAFETY MEASURES RELATED TO THE USE OF THE BATTERY AND THE CHARGER "PELENC"

Note

Please refer to the battery operating instructions.



Warning

Read all safety warnings and all instructions. Retain all the safety measures and instructions for later reference.

2.4. SAFETY WARNINGS FOR BATTERY-POWERED SHEARS

This device is not intended for use by individuals (including children) with reduced physical, sensory or mental capabilities, nor by anyone lacking in experience or knowledge, except if they are supervised or have received prior instructions from a person responsible for their safety.

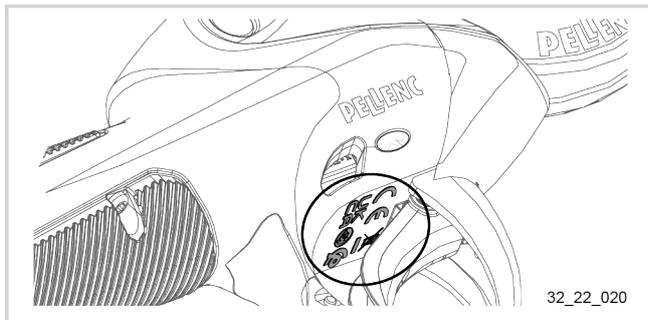


Warning

Read all the instructions on the ActivSecurity of your Pruning shears C45 carefully before use, see Section 5.2, "Tool safety".

1. Never modify the connector in any way whatsoever.
2. This tool may cause severe injuries. Read the instructions carefully about the proper handling, operation, maintenance, start-up and stopping of the tool. Familiarize yourself with all its controls and the proper use of the tool.
3. When the machine is not in use, always switch off the battery (both LEDs on the tool must be off).
4. Do not leave the pruning shears on the ground or outside exposed to the weather.
5. Make sure that the blade is not in contact with any object before starting the tool.
6. Never use the tool if it is damaged, incorrectly set or incompletely assembled.
7. Never remove or disable a safety device. Have the safety device repaired if is faulty.
8. Never disconnect the power cord of the tool without having checked that the red and green LEDs on the left and right of the battery display are off.
9. Never carry the pruning shears suspended from the power cord.
10. Do not disassemble the pruning shears.
11. Do not try to cut pieces of wood that are too large or other materials than wood.
12. Please test the machine before use to check that it is working properly.

2.5. SAFETY SIGNAGE



Tool compliant with EC standards.



Tool compliant with Moroccan standards.



Tool compliant with UKCA standards.



Read the user guide.

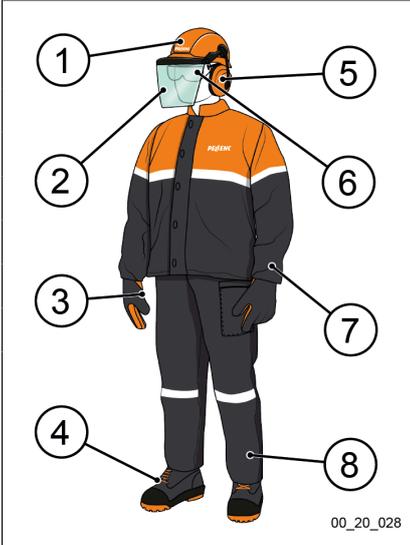
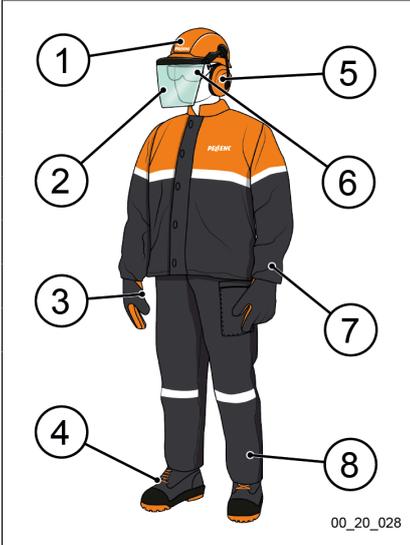
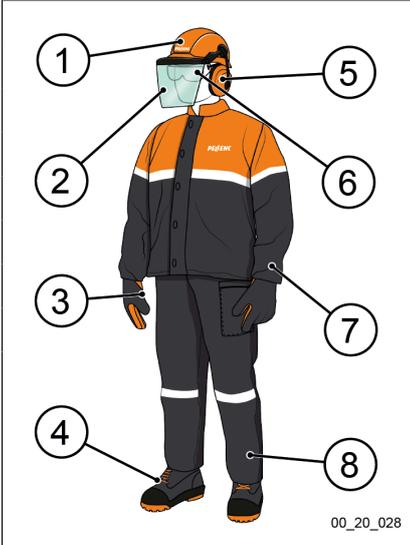
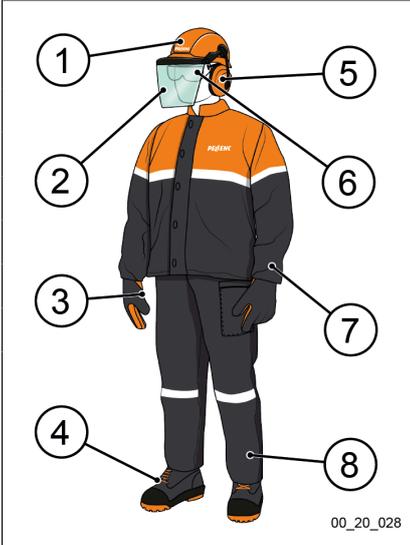
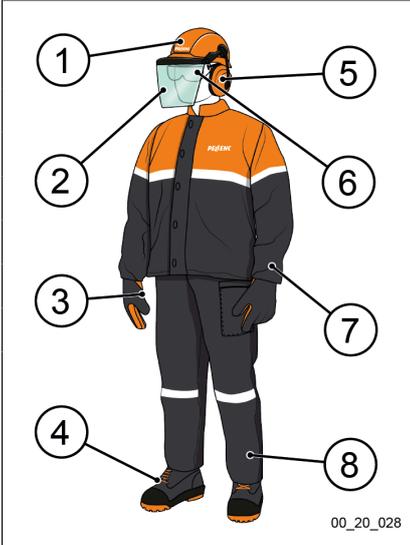
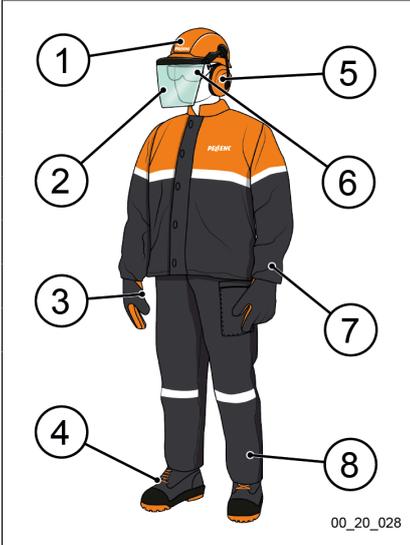
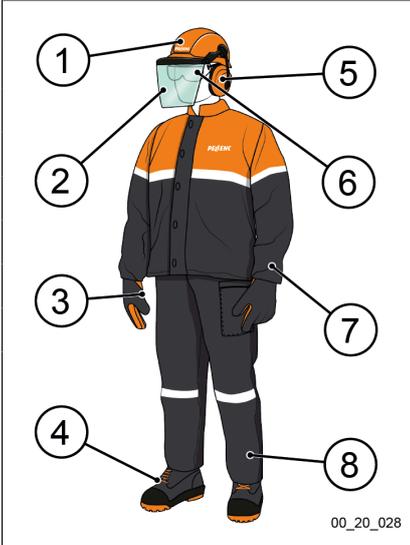
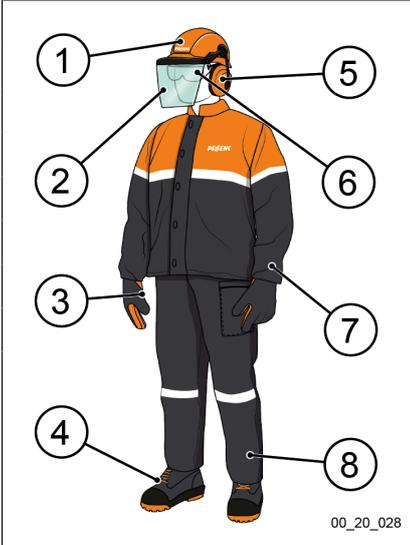


Lithium-ion battery.

At the end of its life, the battery must be returned to the authorized distributor from whom it was purchased to be recycled in accordance with waste regulations.

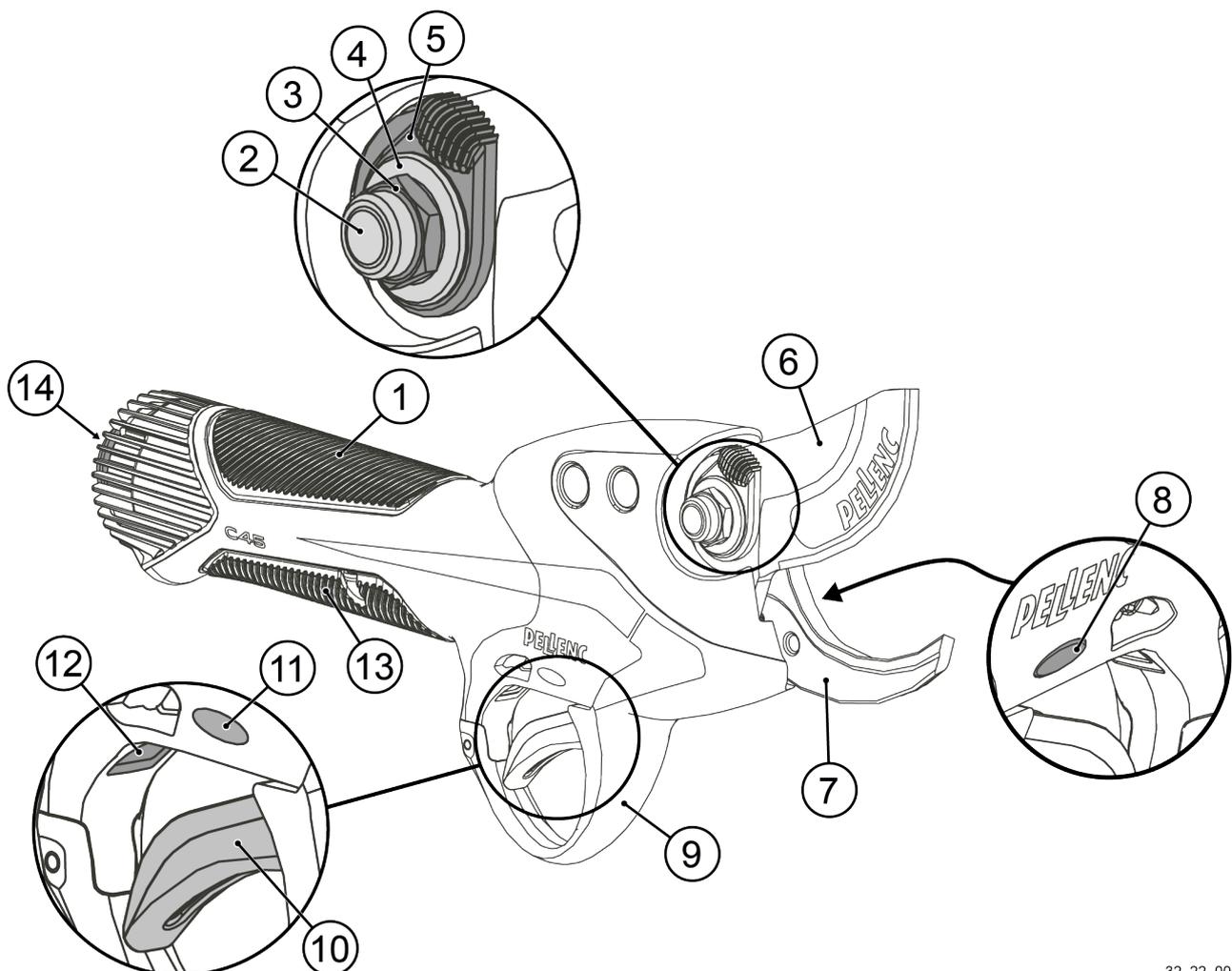


2.6. PERSONAL PROTECTION EQUIPMENT

	Equipment	Wearing of
	1 Safety helmet	--
	2 Protective visor	--
	3 Pellenc ActivSecurity gloves	Recommended
	4 Safety footwear	Mandatory
	5 Ear protection	--
	6 Protective goggles	Recommended
	7 Jacket or over-sleeves	--
	8 Work trousers	--

3. DESCRIPTION AND TECHNICAL FEATURES

3.1. DESCRIPTION OF THE TOOL



- | | |
|------------------------------|--|
| 1. Upper conductive pad | 8. "Mode" LED (left side of the tool) |
| 2. Blade shaft | 9. Guard |
| 3. Nut | 10. Drive trigger |
| 4. Washer | 11. "ActivSecurity" LED (right side of the tool) |
| 5. Knurled adjustment washer | 12. Optical sensor |
| 6. Blade | 13. Lower conductive pad |
| 7. Hook | 14. Power cord connector |

3.2. TECHNICAL FEATURES OF THE PRUNING SHEARS C45

Cutting capacity	45 mm
Pruning shears power supply voltage	43.2 V
Motor rated power	180 W
Battery life	Depending on the use and type of battery
Weight of pruning shears	862 g

Total vibration values (triaxial vector sum) determined in accordance with EN 62841-1 (uncertainty of $K=1.5 \text{ m/s}^2$)	$a_h = 2.5 \text{ m/s}^2$
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Noise value measured according to EN 62841-1	
Acoustic power level measured (uncertainty of $K=3 \text{ dB}$)	$L_{WA}=74 \text{ dB MAX}$
Level of acoustic pressure measured at the work station (uncertainty of $K=3 \text{ dB}$)	$L_{pA}=67 \text{ dB MAX}$

- The declared total vibration value (s) and the declared noise emission value (s) were measured in accordance with a standard test method and can be used to compare tools.
- The declared total vibration value (s) and the declared noise emission value (s) may also be used in a preliminary exposure assessment.
- It is necessary to identify safety measures to protect the operator that are based on an estimate of exposure under actual use conditions (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger actuation time).

4. COMMISSIONING

Note

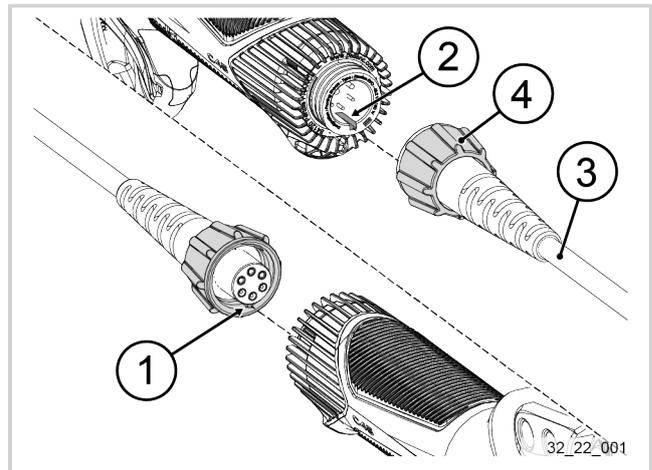
For further information on commissioning instructions, please refer to the operating instructions of the battery.

4.1. CONNECTING THE TOOL TO THE BATTERY

1. To commission the battery, refer to its operating instructions.
2. Make sure the battery is switched off before plugging in the tool.
3. Align the marker (1) of the tool power cord with the slot (2) of the tool connector.
4. Connect the tool power cord (3) to the tool.
5. Tighten the tightening ring (4) of the tool cord completely.

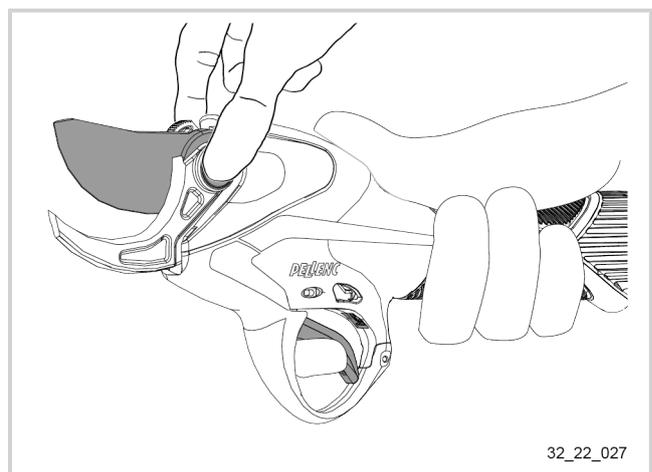
Important

Risk of false contact and tool stoppage if the tightening ring is not fully tightened.



4.2. TURNING ON THE TOOL WITH ACTIVSECURITY ACTIVATED (FACTORY SETTING)

1. Turn on the battery by pressing the on/off button and wait for the battery to beep 5 times. The "ActivSecurity" LED flashes red.
2. Take the tool in your hand, making sure your fingers are in contact with one of the conductive pads.
3. Position the index finger of the hand holding the tool on the trigger.
4. Pinch each side of the blade shaft with the other hand. The "ActivSecurity" LED turns solid red.
5. Release the blade shaft. The "ActivSecurity" LED lights up blue and the tool beeps.



Note

The light is blue when there is contact with one of the conductive pads and the trigger.

6. Press the trigger to activate the tool.

Note

Do not touch the cutting head and maintain contact with at least one of the two conductive pads for the tool to work.

4.3. TURNING ON THE TOOL WITH ACTIVSECURITY DISABLED

1. Turn on the battery by pressing the on/off button and wait for the battery to beep 5 times. The "ActivSecurity" LED flashes red.
2. Take the tool in hand and pull the trigger.

The tool emits three alarm beeps and then the blade opens. The tool is ready for use.

Deactivating the safety system exposes the user to the risk of serious and deep cuts.



Warning

The tool operates with the safety system off, exposing the user to the risk of serious and deep cuts.

5. USAGE

5.1. USAGE TIPS

- You must take all necessary care to prevent catching the lead of the pruning shears in the branches. To do this, attach the cord to the arm using the armband provided (see battery operating instructions manual).
- The operating time and service life of the pruning shears mainly depend keeping the blade properly sharpened and tightened.
- It is imperative to remove the burrs from the cutting edge of the blade and to perform the first sharpening within the first 15 minutes of use, see Section 6.3, "Sharpening the blade".
- For an optimal cutting quality, check the blade tightening regularly, see Section 6.4, "Check the tightening of the blade".
- We recommend that you do not disconnect the lead of the pruning shears from the battery unit after use each day, but instead wind it around the "battery" unit and replace them both in their carry-case.

Different operating modes are available to best suit your working habits (indicated on the display).

5.2. TOOL SAFETY

5.2.1. DEACTIVATION OF ACTIVSECURITY



Warning

The user is strongly advised against disabling ActivSecurity. Disabling ActivSecurity exposes the user to the risk of serious and deep cuts.

The user is responsible for any accidents that occur as a result of deactivating the ActivSecurity.

The deactivation of the safety system is recorded in the battery's black box.

Important

Carry out this operation without gloves. Do not wear gloves.

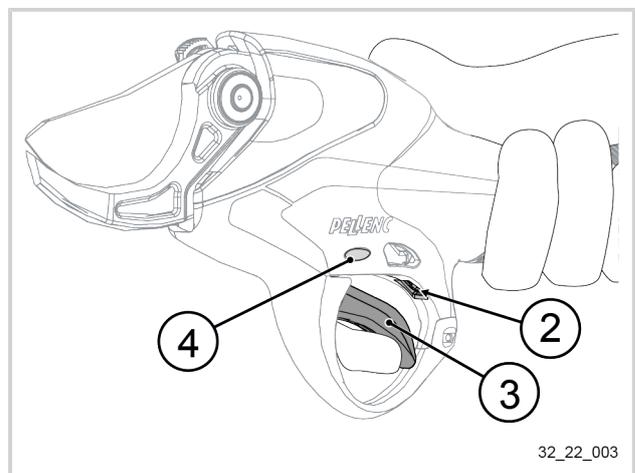
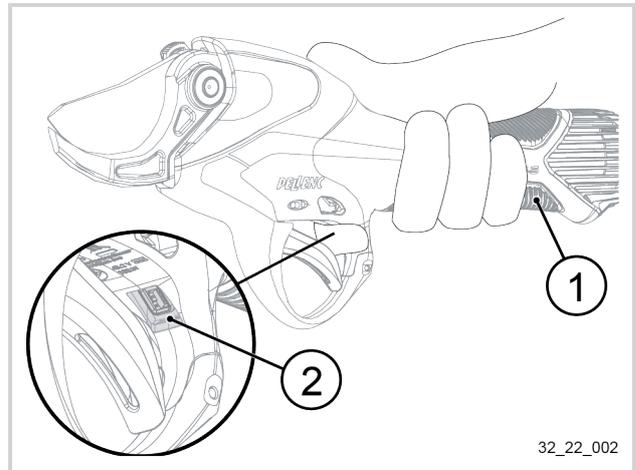
1. Turn on the battery by pressing the on/off button and wait for the battery to beep 5 times.

Note

Do not have your finger over the optical sensor when switching on the battery.

Within 10 seconds of starting the tool:

2. Take the tool in your hand, making sure that your fingers are in contact with one of the two conductive pads (1).
3. Place the index finger in front of the optical sensor (2) for 1 second.
4. Press the trigger (3) in fully and release it.
5. Place the index finger in front of the optical sensor (2) for 1 second.



Note

- An alarm sound and the "mode" LED (4) turning red means that the ActivSecurity is deactivated.
- When the security is deactivated, the tool emits an alarm sound each time it is switched on and off.

5.2.2. ACTIVATION OF ACTIVSECURITY

Warning

ActivSecurity is based on electrical conduction and is only optimal with the use of Pellenc ActivSecurity Gloves.

When working in wet conditions, wearing gloves increases safety effectiveness.

If you put on gloves that you did not have at the beginning of the day, or if you change your conductive gloves during the day, make sure they are compatible with the ActivSecurity system by restarting the tool and activating the security.



Warning

The safety system only protects the user holding the tool, any other persons is not protected.

ActivSecurity and Pellenc gloves reduce the risk of cuts **but risk remains**. Always be careful when using the pruning shears.



Important

Carry out this operation without gloves. Do not wear gloves.

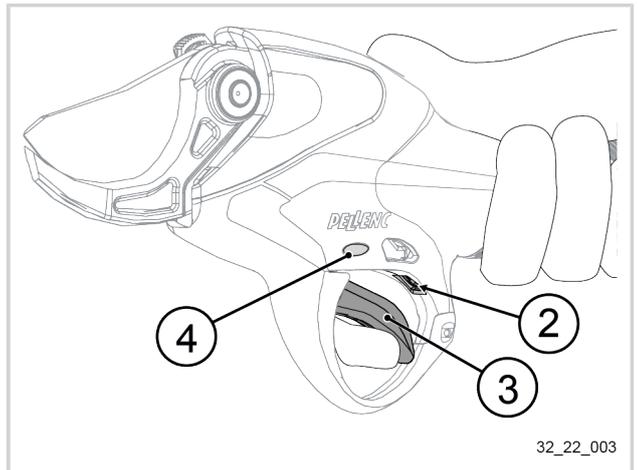
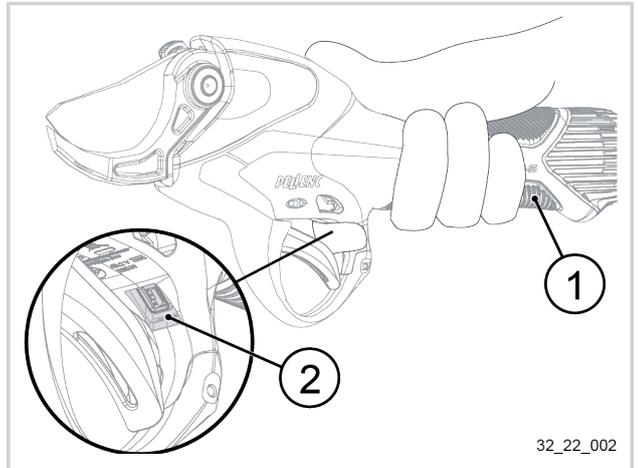
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Note

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Within 10 seconds of starting the tool:

2. Take the tool in your hand, making sure that your fingers are in contact with one of the two conductive pads (1).
3. Place the index finger in front of the optical sensor (2) **for 1 second**.
4. Press the trigger (3) in fully and release it.
5. Place the index finger in front of the optical sensor (2) **for 1 second**. The tool issues a warning to confirm the activation of ActivSecurity.
6. Check the correct functioning of the ActivSecurity, see Section 5.2.3, "Checking the ActivSecurity system".



Important

The safety systems have their limits. The user of the tool will need to be vigilant to ensure that the tool works properly.

5.2.3. CHECKING THE ACTIVSECURITY SYSTEM

Each time the tool is switched on, the safety device is waiting to be initialised.



Warning

In the event of any problem, consult an authorized distributor PELLENC.

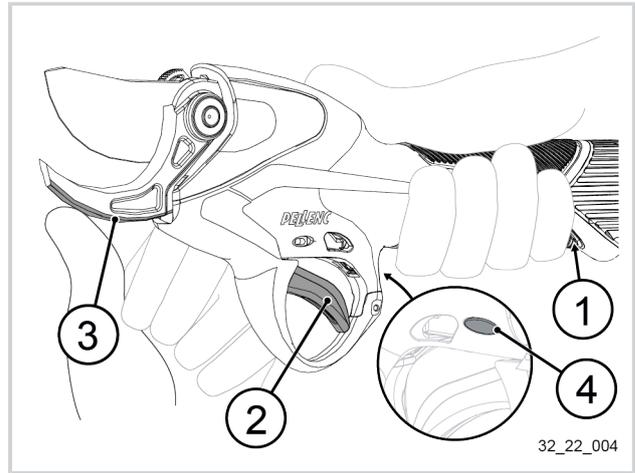


Warning

For the proper functioning of the safety system, it is imperative to wear Pellenc ActivSecurity gloves or no gloves at all. The use of any other gloves is prohibited.

Once the tool has been activated, ensure that the ActivSecurity system is working properly:

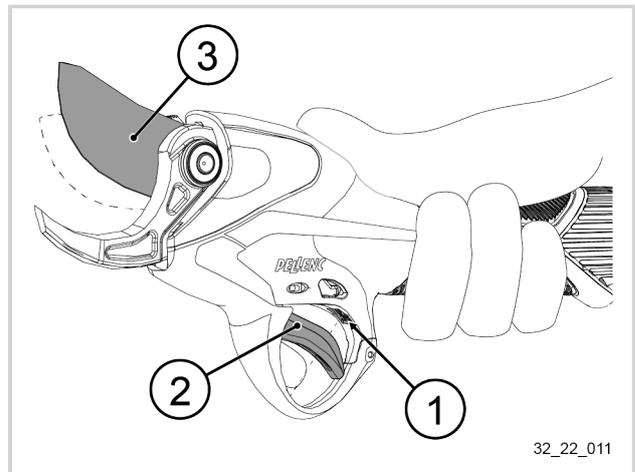
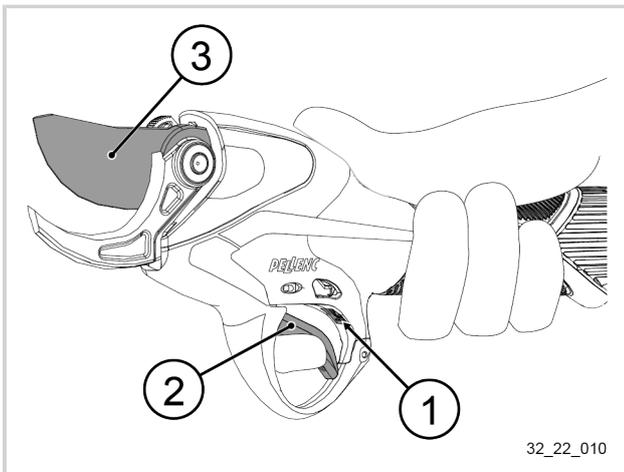
1. Take the tool in your hand, making sure that your fingers are in contact with one of the two conductive pads (1).
2. Place the index finger of the hand holding the tool on the trigger (2).
3. Apply pressure to the lower edge of the hook (3) with the opposite hand. The "ActivSecurity" LED turns solid red.
4. Remove the opposite hand from the hook (3) and ensure that the "Activsecurity" LED (4) lights up blue.
5. Check the correct operation of the blade according to the position of the trigger.



Note

When the blade is held in the open position and the battery beeps upon simultaneous contact with all 3 conductive surfaces, the ActivSecurity is functioning. In case of malfunction, try to increase the contact area with the tool and wear/replace your conductive gloves.

5.3. OPTICAL TRIGGER - HALF OPENING



In half-open mode, the blade remains in half-open position as long as the optical system (4) detects that your finger is in front of the trigger (2). When your finger moves away from the trigger, the optical system controls the full opening of the blade (3).

For more information on adjusting the sensitivity of the optical sensor, refer to the operating instructions manual of the battery.

Note

The kind of gloves worn can have an effect on the way the optical trigger works. We recommend not wearing black gloves.

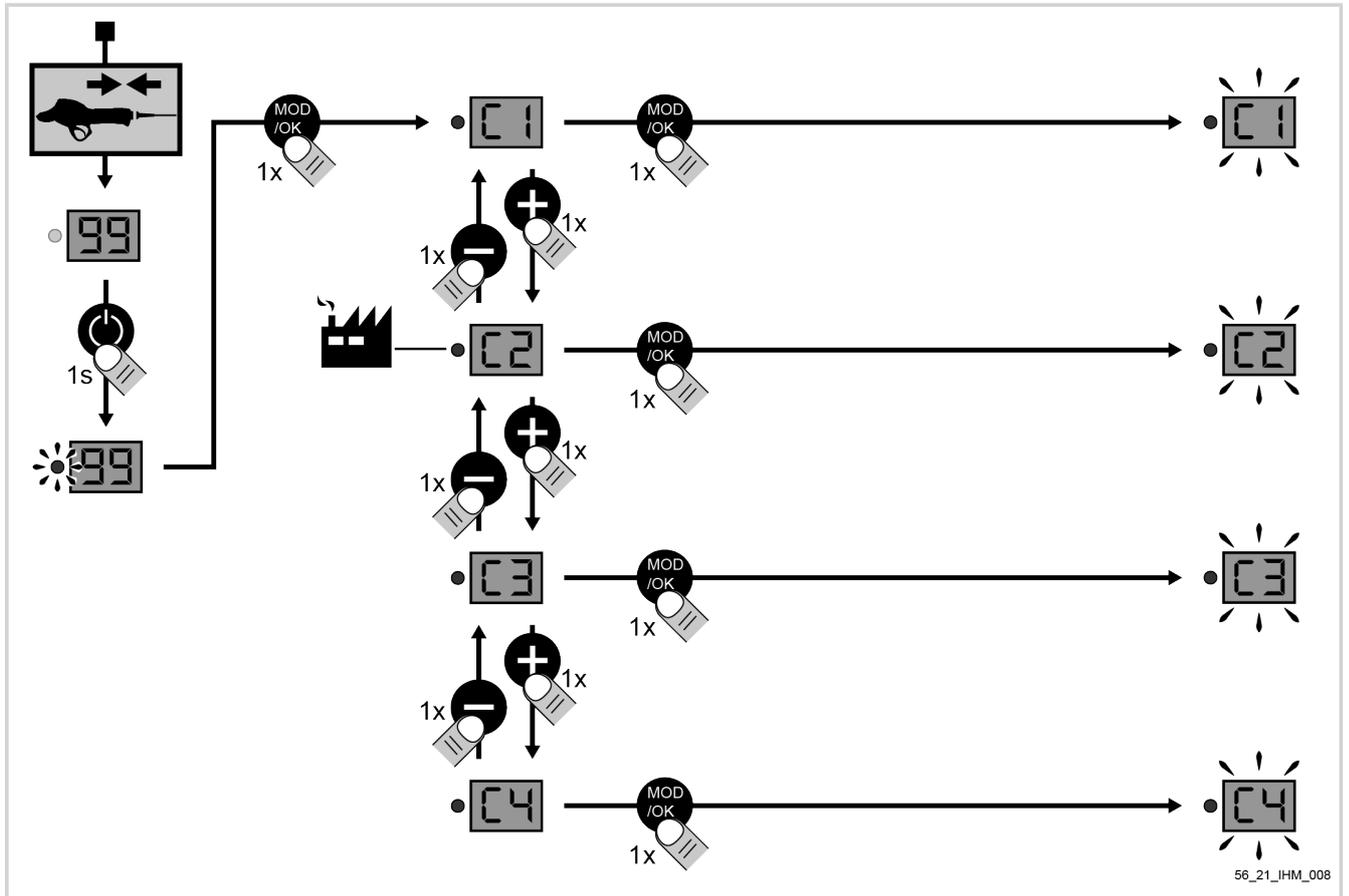
Important

If the optical trigger stops working properly, check that there is nothing obstructing the slot in the trigger or clean the window of the optical sensor with rubbing alcohol.

5.4. USAGE MODES

When leaving the factory, the pruning shears are set in "progressive" mode (C2).

5.4.1. CHANGING USAGE MODE

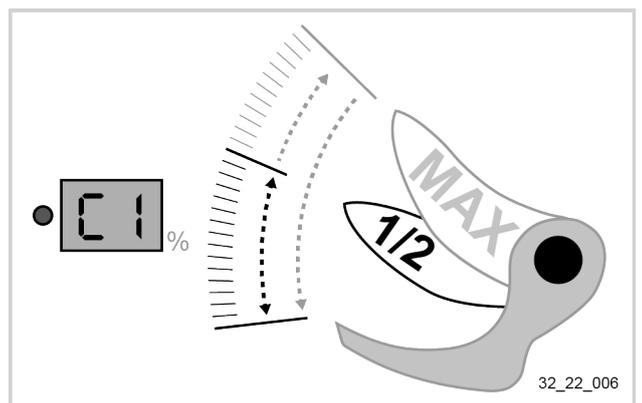


1. Turn the battery on, with the tool connected,
2. Press the "mode" button,
3. Select modes C1, C2, C3 or C4 by pressing + or -,
4. Press the "mode" button to validate.

5.4.2. PRESENTATION OF USAGE MODES

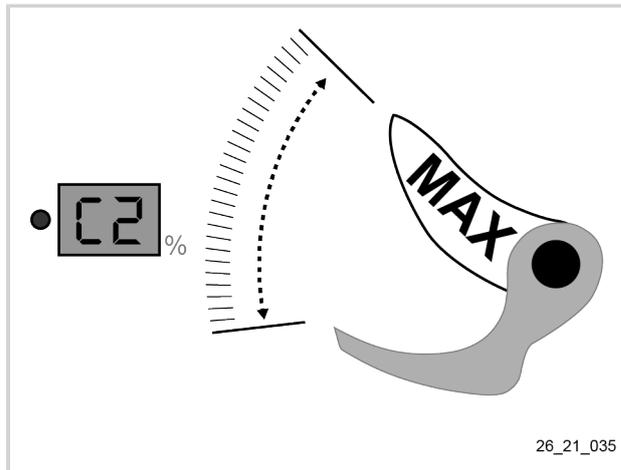
Mode C1: PROGRESSIVE WITH HALF-OPENING

- Progressive operation with half-opening.



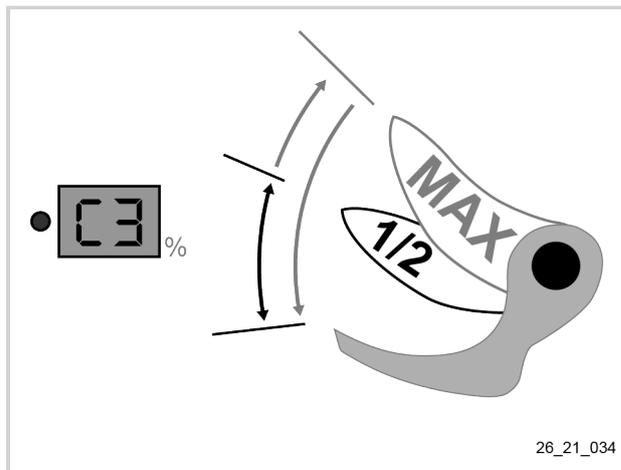
Mode C2: PROGRESSIVE (factory mode) 

- Progressive operation without half-opening.



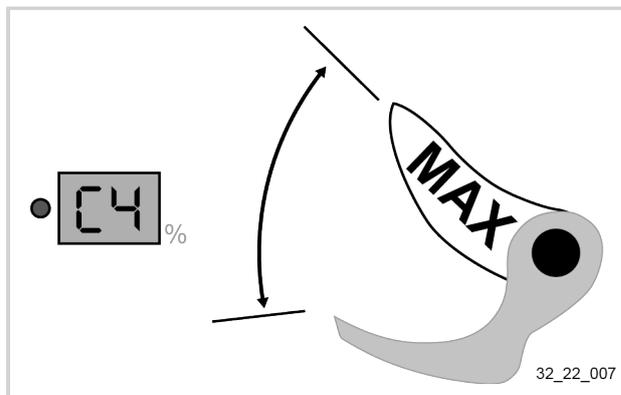
Mode C3: ON/Off HALF-OPENING

- Fast, "On/Off" operation, with half-opening.



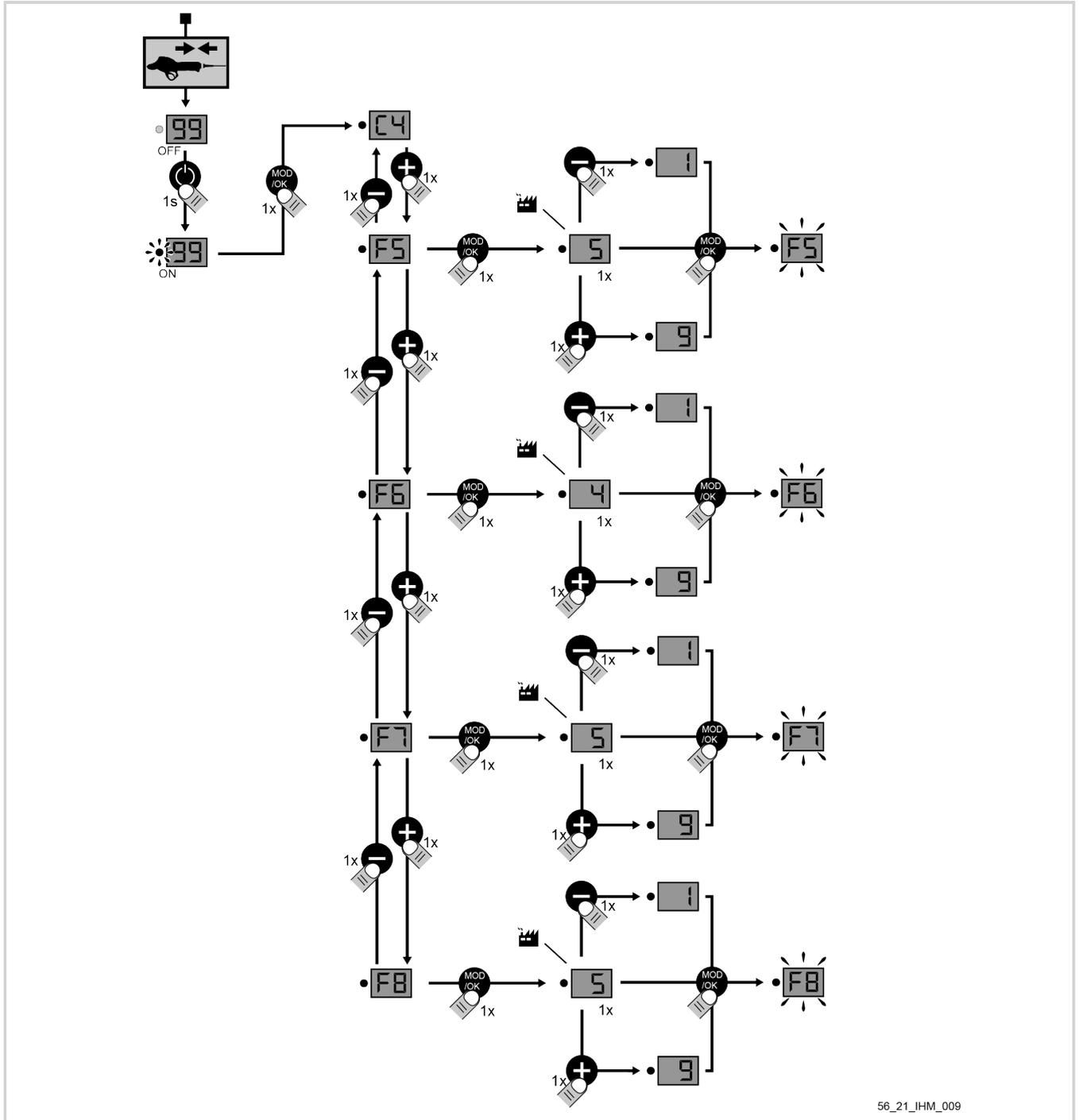
Mode C4: ON/Off

- Fast On/Off operation without half-opening.



5.5. "FUNCTIONAL" SETTINGS MODES

5.5.1. CHANGING THE "FUNCTIONAL" SETTINGS MODE



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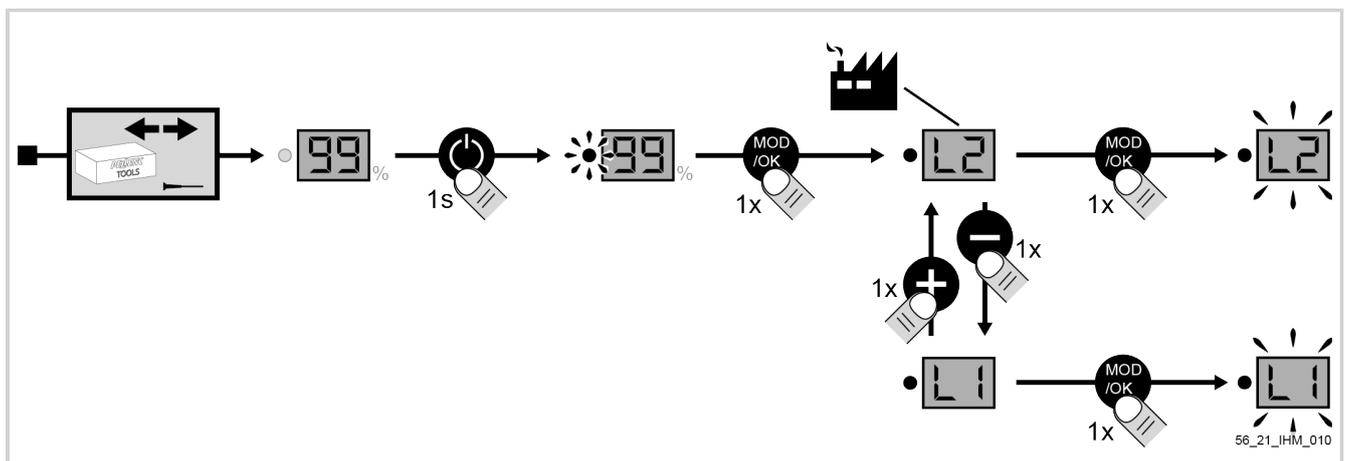
1. Turn the battery on, with the tool connected,
2. Press the "mode" button,
3. Select the mode by pressing + or - ,
4. Press the "mode" button to validate,
5. Press + or - to adjust the setting from 1 to 9, see Section 5.5.2, "Presentation of "functional" settings modes",
6. Press the "mode" button to validate.

5.5.2. PRESENTATION OF "FUNCTIONAL" SETTINGS MODES

Pruning shears mode	Description	Adjusting the setting
F5: Blade crossing setting	Adjust the blade crossing.	1 - 9: Low crossing - high crossing
F6: Adjusting the half-opening	Adjust the blade half-opening.	1 - 9: Narrow opening - wide opening
F7: Adjusting optical sensor sensitivity	Adjust the sensitivity of the blade's optical sensor.	1 - 9: Very sensitive - not very sensitive
F8: Tool standby delay setting	Adjust the amount of time the trigger is held down before the tool goes to standby.	1 - 8: Minimum time limit - maximum time limit
		9: No standby mode

5.6. AUTHORISATION MODES

5.6.1. CHANGE OF AUTHORISATION MODE



1. Disconnect the pruning shears and turn on the battery,
2. Press the "mode" button,
3. Select the mode by pressing + or -,
4. Press the "mode" button to confirm,
5. After setting the mode, turn off the battery and then reconnect the tool.

5.6.2. PRESENTATION OF AUTHORISATION MODES

You can set the parameters for the tool's adjustment level to make it easier to use.

- L1: "Normal" mode: the user has access to the 4 operating modes C1 to C4 but without any possibility of adjustments.
- L2: "Expert" mode: the user has access to the 4 operating modes C1 to C4 and the four settings F5 to F8. 

5.6.3. COMPATIBILITY: BATTERY MODE AND MODEL

Pruning shears C45	Setting mode	
	L1	L2
Pruning shears mode		
C1: Progressive half-opening	✓	✓
C2: Progressive	✓	✓
C3: On/Off half-opening	✓	✓
C4: On/Off	✓	✓
F5: Blade crossing setting	✗	✓
F6: Adjusting the half-opening	✗	✓
F7: Adjusting optical sensor sensitivity	✗	✓
F8: Tool standby delay setting	✗	✓

5.7. STANDBY

Putting the Pruning shears C45 into standby is possible when the F8 mode is set between 1 and 8, see Section 5.5, "“Functional” settings modes”.

Note

A beep from the battery indicates that the tool is in standby mode.

5.7.1. AUTOMATIC STANDBY MODE

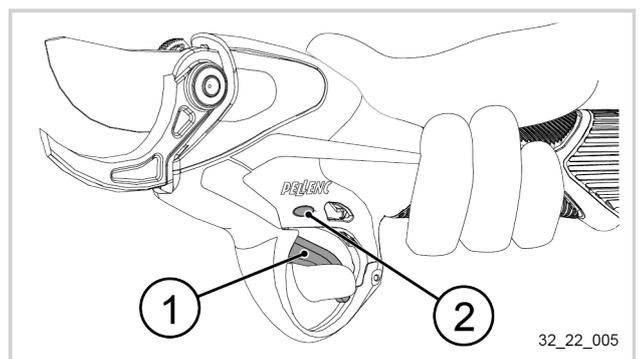
If no action is taken on the pruning shears or the battery for 2 minutes, the tool automatically switches to standby.

5.7.2. MANUAL STANDBY MODE

1. Press the trigger (1) fully in until the blade closes, the battery beeps and the "mode" LED (2) flashes.
2. Release the trigger (1).

Note

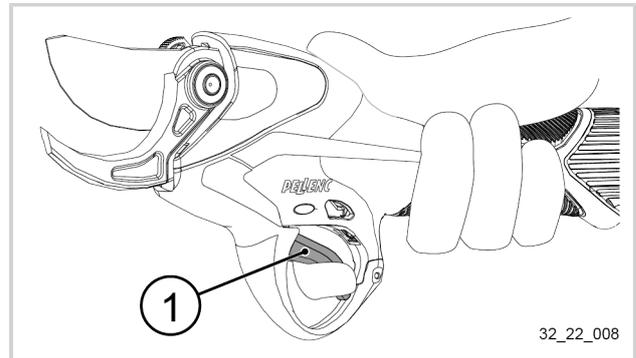
For more information on setting the trigger hold time for standby, see Section 5.5.2, "Presentation of "functional" settings modes”.



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5.8. STANDBY EXIT

1. Press the trigger (1) in fully.
2. Release the trigger (1).



6. MAINTENANCE

6.1. MAINTENANCE ADVICE

If cutting is no longer sharp and effortless, this means that it is using more energy than necessary. Check the following points:

1. blade sharpening,
2. the tightening of the blade,
3. greasing of the blade shaft,
4. general condition of the tool.



Caution

Always disconnect the tool battery before starting tool maintenance.

- Use products recommended by PELENC.
- In the event of any problem, consult an authorized distributor PELENC.

6.2. MAINTENANCE TABLE

Maintenance task	At each start-up	Every 4 hours	Every week	After each use
Sharpening the blade, see Section 6.3, "Sharpening the blade".				X
Check the tightening of the blade, see Section 6.4, "Check the tightening of the blade".	X			
Check the tightening of the tool power cord, see Section 4.1, "Connecting the tool to the battery".	X			
Cleaning the tool (not with a high pressure water jet but instead by blowing or brushing), see Section 6.5, "Cleaning the tool".				X
Checking the crossing of the hook and the blade, see Section 6.6, "Checking the crossing over of the hook and the blade"	X			
Visual inspection of the general condition of the tool (no deformation or wear)				X
Greasing the blade, see Section 6.7, "Greasing the blade".			X	
Check the functioning of the ActivSecurity, see Section 5.2.3, "Checking the ActivSecurity system".	X	X		
Checking the condition of gloves and their conductivity	X	X		
Check the battery charge level.	X			
Have the machine serviced by an authorised dealer PELLENC.	<p>Important</p> <p>Have your machine serviced every 400 hours or at least once a year by an authorised PELLENC distributor. Always store the tool clean and in a dry place, with the battery charged.</p>			
Changing the blade kit	EVERY 200 HOURS to maintain a good quality of cut, contact a distributor to change this kit.			
Battery	Please refer to the battery operating instructions.			

6.3. SHARPENING THE BLADE

This is important because it determines the quality of the cut and the durability of blades, the mechanical parts and the battery life. Its frequency depends of course of the wood cut (hardness and diameter), the pruning pace and sharpness of the blades (a special grinding stone was supplied to you).

1. Open the blade fully.



Caution

Switch off the tool and disconnect the battery before starting the sharpening.

2. Use the sharpening stone provided.
3. Refresh only the 1st cutting angle (1) from the inside to the outside until the burr is removed from the blade edge.

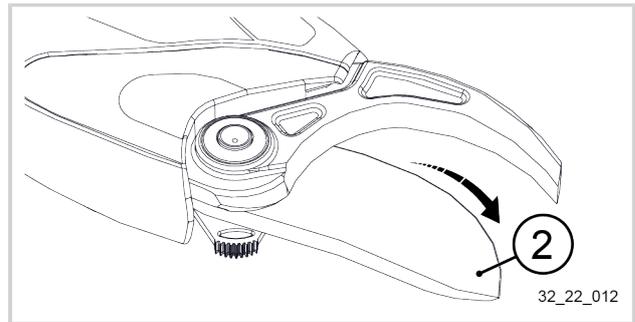
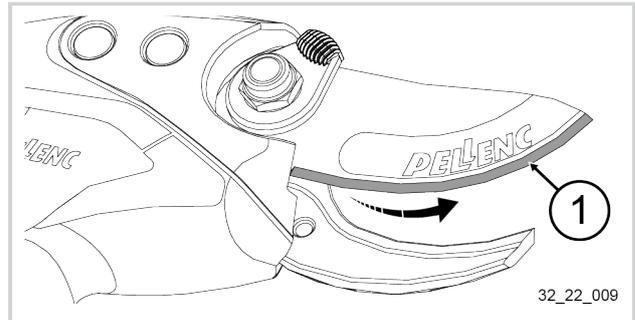
Important

Incline the stone about 30° to match the edge of the blade perfectly.

4. Turn the tool over.
5. Deburr the back of the blade (2) once by laying the sharpening stone flat from the inside to the outside.

Important

It is imperative to remove the burr from the edge of the blade and to carry out the first refreshment within the first 15 minutes of use, then every 1 or 2 days maximum.



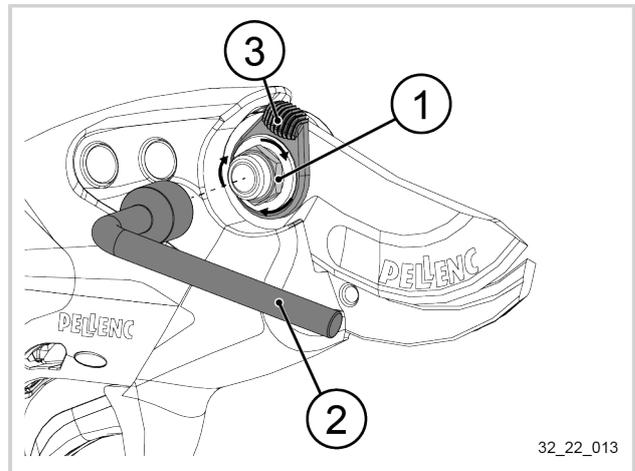
6.4. CHECK THE TIGHTENING OF THE BLADE

To obtain correct adjustment:

1. Carry out these operations **blade closed, tool disconnected from the battery.**
2. Tighten the nut (1) with the supplied wrench (2) until the knurled adjusting washer (3) turns only with great difficulty.

Note

Excessive tightening can lead to high power consumption and thus to overheating of the tool and a significant reduction in battery life.



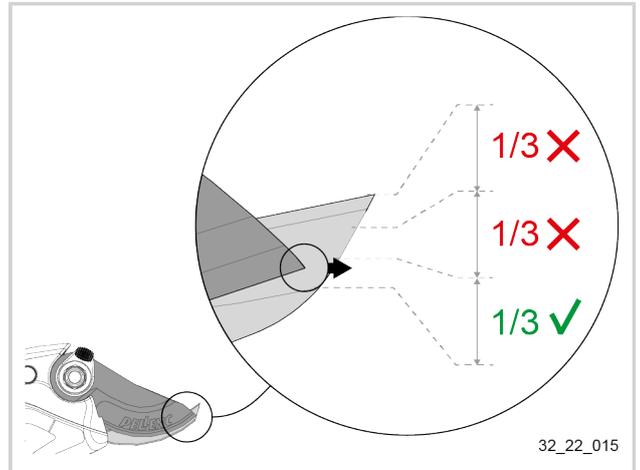
6.5. CLEANING THE TOOL

Avoid the formation of abrasive paste (oil + soil) as much as possible via frequent cleaning. To do this:

- Clean the front of the shears with a cloth and compressed air, do not use solvents such as trichlorethylene, turpentine, gasoline, or similar products.
- Grease the blade and blade pins lightly but often with the grease gun supplied, see Section 6.7, “Greasing the blade”.

6.6. CHECKING THE CROSSING OVER OF THE HOOK AND THE BLADE

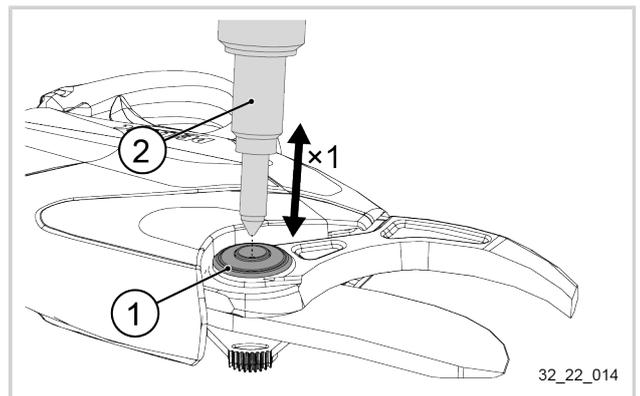
1. Ensure that in the closed position the tip of the blade is in the lower third of the hook.
2. Adjust the crossing if necessary, see Section 5.5, "Functional" settings modes".



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6.7. GREASING THE BLADE

- Grease the blade pin (1) with the grease gun supplied (2).

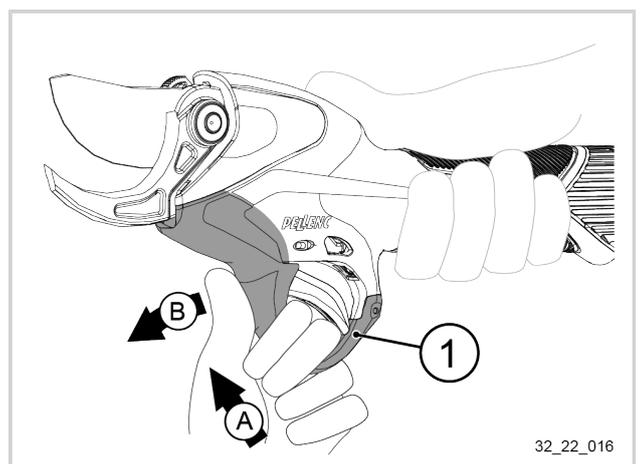


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6.8. CHANGING BLADE OR PINS

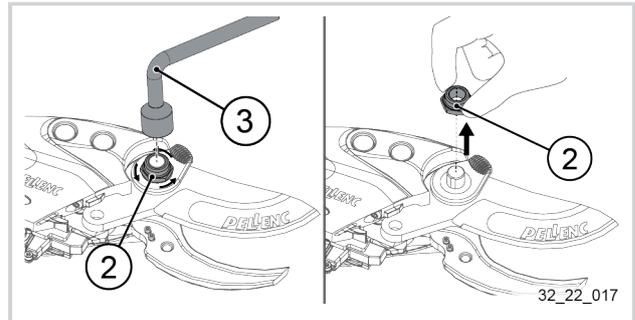
6.8.1. REMOVAL OF THE BLADE AND ITS PIN

1. Open the blade fully.
2. Turn off the battery.
3. Disconnect the pruning shears cord.
4. Open the guard (1).

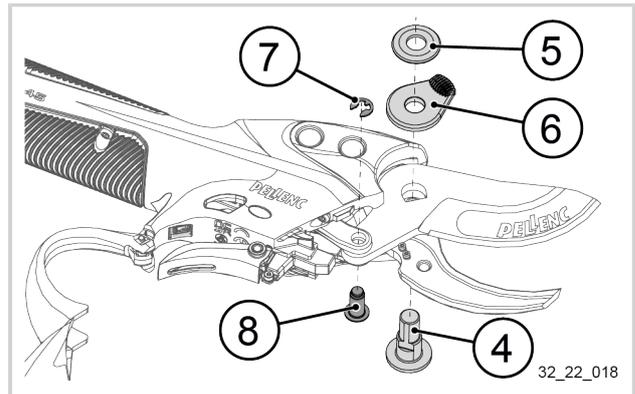


32_22_016

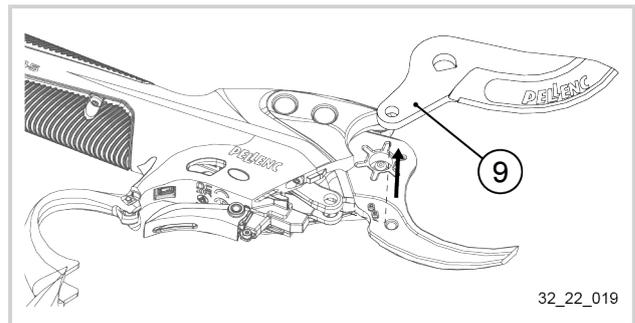
5. Unscrew the nut (2) with the supplied wrench (3) and remove the nut (2).



6. Remove the parts in this order:
 - The blade pin (4),
 - The washer (5),
 - The knurled adjustment washer (6),
 - The circlip (7) by levering with a small screwdriver and then the shoulder pin (8).

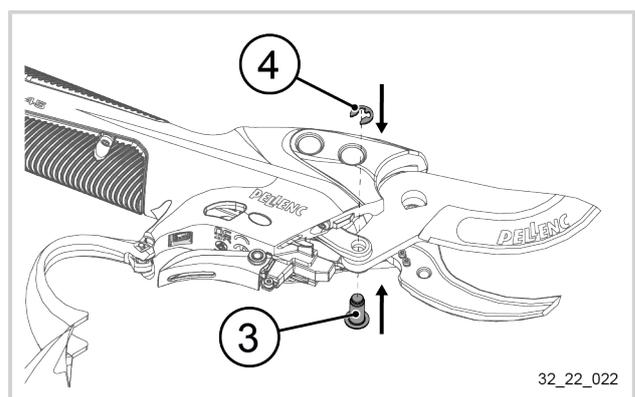
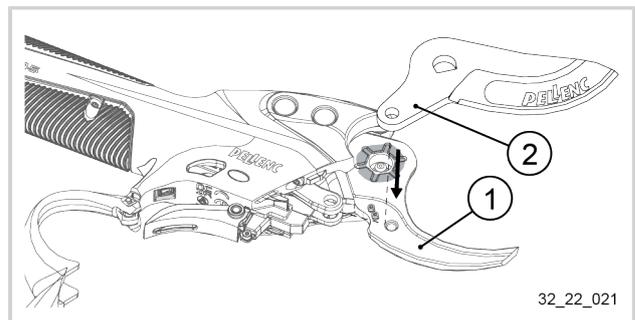


7. Remove the blade (9) and replace the worn parts.
8. Refit the blade and pins, see Section 6.8.2, "Fitting of the blade and its pins".

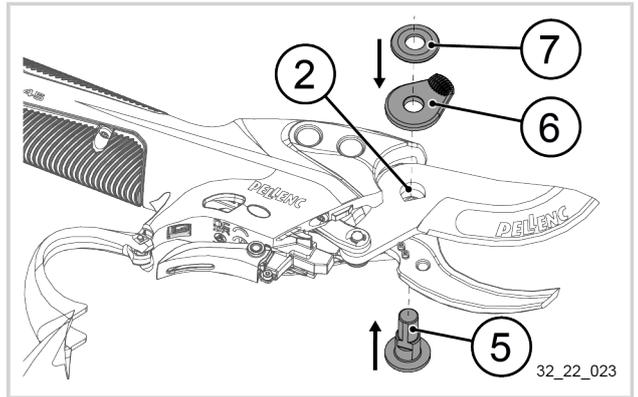


6.8.2. FITTING OF THE BLADE AND ITS PINS

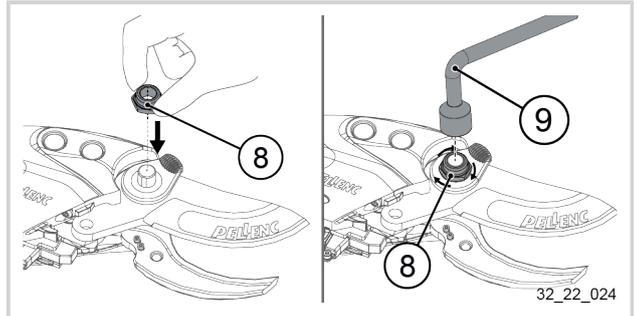
1. Remove the blade, the pins and change the worn parts, see Section 6.8.1, "Removal of the blade and its pin".
2. Ensure that the tool is switched off and the battery disconnected before starting to fit the blade and pins.
3. Grease the surface of the hook (1) in contact with the blade (2).
4. Fit the blade (2) on the hook (1).
5. Grease and fit the shoulder pin (3).
6. Replace the circlip (4) and fit it with the sharp edge facing outwards on the shoulder pin (3).



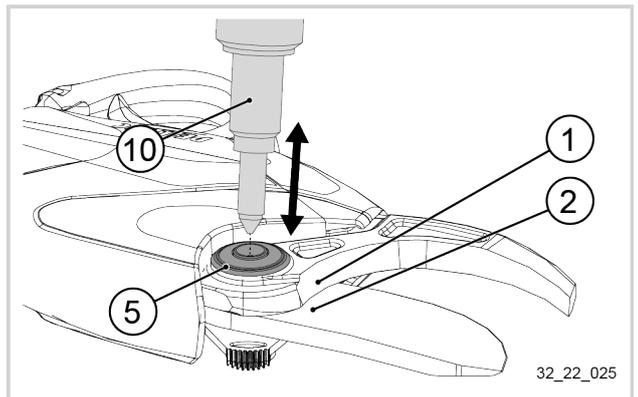
7. Align the flat on the blade shaft (5) with the blade marker (2).
8. Fit the blade pin (5).
9. Refit the knurled adjusting washer (6) and then the washer (7).



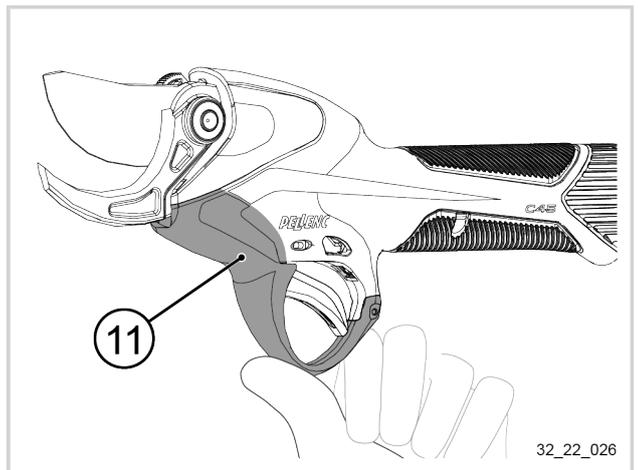
10. Position and screw the nut (8) onto the blade shaft (5) using the wrench provided (9), see Section 6.4, "Check the tightening of the blade".



11. Turn the tool over.
12. Grease the blade shaft (5) with the supplied grease nipple (10) until the grease appears between the blade (2) and the hook (1).



13. Clip the guard (11) back in place by pressing in the centre.
14. Reconnect the pruning shears power cord.



7. INCIDENTS AND TROUBLESHOOTING

7.1. SUMMARY OF "ACTIVSECURITY" LED CODES AND AUDIBLE SIGNALS

Normal operation Codes	
Start-up	
Flashing RED	• Waiting for initialization
Red and (light) blue fixed	• ActivSecurity initialized: user detected on pad and hook
Slow flashing red	• ActivSecurity deactivated
Using the tool	
Steady blue	• No fault detected: user detected between pad and trigger
Flashing blue	• No fault and low ActivSecurity threshold: user detected between pad and trigger
Slow flashing red and alarm sound	• ActivSecurity deactivated
Degraded Mode codes	
Using the tool	
Rapid flashing red	• Poor connection between the hook and the trigger board
1 short beep every 3 seconds	• Guard open
Fault codes	
Start-up	
Flashing red and blue	• Waiting for initialization and user detected on the pad
Using the tool	
Steady red	• User not detected on pad or trigger
Steady red and (light) blue	• Fault detected: user in contact with the hook and/or not detected on the pad
Steady red and flashing (light) blue	• Fault detected with ActivSecurity threshold low: user in contact with hook and/or not detected on pad

7.2. SUMMARY OF BATTERY LED CODES ON PRUNING SHEARS C45

Fault codes	
Usage	
Flashing with loss of tool power	• Wait 30 seconds without cutting large branches.

7.3. TROUBLESHOOTING

If your tool no longer works:

1. Switch off the battery (check that the LED is off).
2. Check the battery is charged, as shown on the gauge.
3. Check the lead is connected and the cable thumb-wheel tightened.
4. Turn on the battery (LED is on).
5. Pull the trigger without a glove. If the tool is working, check the condition of the glove and its conductivity, change it if necessary.
6. Deactivate ActivSecurity, see Section 5.2.1, "Deactivation of ActivSecurity".
7. Press the trigger.

- If the tool does not work, return the complete equipment in its original packaging to a certified repair service.



Caution

Never attempt to open or repair the battery pack or the charger.

8. TRANSPORT / STORAGE

8.1. STORAGE

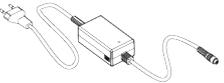
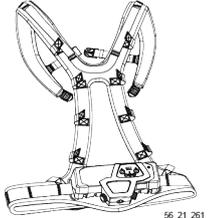
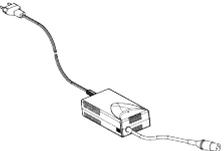
- Disconnect the pruning shears from the battery.
- Clean the pruning shears, see Section 6.5, "Cleaning the tool".
- Store the pruning shears in their carrying case away from heat, dust and moisture.
- Store the battery (refer to the battery operating instructions).

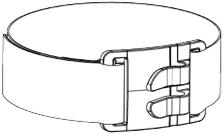
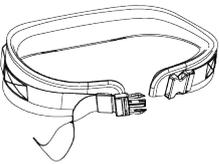
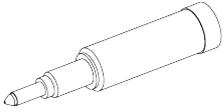
Note

In the OFF-SEASON, you may have your pruning shears serviced by an authorised repairer. For more information, consult an authorised distributor or contact PELLENC.

9. ACCESSORIES AND CONSUMABLES

9.1. ACCESSORIES

Name	Reference	Illustration
150P battery	163689	
Charger CB5004HV2 (0.4 A) • for the 150 battery	152271	
250 battery mounted on adjustable harness	154701	
Charger CB5010HV (1A) • for the 250 battery	132649	

Name	Reference	Illustration
Arm band	120989	 <small>26_21_039</small>
Holster to be fitted on the adjustable belt	152336	 <small>26_21_041</small>
Adjustable belt	154772	 <small>26_21_042</small>
Grease nipple	158783	 <small>00_20_OUTL003</small>
13 mm angled wrench	-	

9.2. CONSUMABLES

Name	Reference
C45 blade kit	165510
C45 maintenance kit	165508
Sharpening stone	34467
Tube of grease	140615

10. WARRANTIES

10.1. GENERAL WARRANTIES

10.1.1. STATUTORY WARRANTY

10.1.1.1. LATENT DEFECTS WARRANTY

Apart from the commercial warranty provided for under Article II, Article 1641 of the Civil Code provides that "the seller is bound to a warranty on account of latent defects of the object sold which render it unfit for the use for which it was intended, or which would impair said use to the extent that the buyer would not have acquired it, or would only have given a lesser price for it, had he known of them".

Article 1648 of the Civil Code "The action resulting from latent defects must be brought by the purchaser within two years after the discovery of the defect."

10.1.1.2. LEGAL WARRANTY OF CONFORMITY

Article L.217-4 of the French Consumer Code "The seller delivers goods in conformity with the contract and is liable for defects of conformity existing upon delivery".

The seller is also liable for any lack of compliance resulting from the packaging, assembly or installation instructions whenever its contractual liability is engaged in this regard or the latter are carried out under its responsibility.

Article L.217-5 of the French Consumer Code "Goods are compliant with the contract":

1. Where they are fit for the purpose normally expected of similar goods and, where applicable:
 - If it matches the description given by the seller and possesses the qualities that were presented to the purchaser in the form of a sample or model;
 - If it possesses the qualities that a purchaser can reasonably expect given the public statements made by the seller, the producer or its representative, especially in advertising or labelling;
2. Or, if it has the characteristics defined by mutual agreement of the parties or is fit for any particular purpose that the buyer made known to the seller and that the latter accepted.

Article L.217-12 of the Consumer Code "legal action resulting from lack of conformity lapses two years after delivery of the goods".

10.1.2. COMMERCIAL WARRANTYPELENC

10.1.2.1. CONTENT

10.1.2.1.1. GENERAL INFORMATION

In addition to legal warranties, client users benefit from the commercial warranty on products PELENC covering the exchange and replacement of parts recognised as being out of order, due to machining defects, assembly defects or material defects, whatever the cause.

The warranty is fully integral to the product sold by PELENC.

10.1.2.1.2. SPARE PARTS

The commercial warranty also covers original PELENC spare parts, excluding labour and to the exclusion of certain parts of each product provided at delivery.

10.1.2.2. DURATION OF THE WARRANTY**10.1.2.2.1. GENERAL INFORMATION**

PELLENC Products are guaranteed under the commercial warranty as from delivery to the customer for a period of two (2) years for products connected to a PELLENC battery, and for a period of one (1) year for other PELLENC products.

10.1.2.2.2. SPARE PARTS

PELLENC Replacement parts replaced under the product warranty are guaranteed under the commercial warranty as from delivery of the PELLENC product to the customer user for a period of two (2) years for products connected to a PELLENC battery, and for a period of one (1) year for other PELLENC products.

In the case of products connected to a PELLENC battery, parts that are replaced under the product warranty after the 12th month of use, are covered for a period of one (1) year.

10.1.2.2.3. WARRANTY EXCLUSIONS

Excluded from the commercial warranty are products that have been subject to abnormal use, or were used under conditions and for purposes other than those for which they were manufactured, especially in the case of non-compliance with conditions stipulated in this operating instructions manual.

It does not apply in case of shock, fall, neglect, lack of supervision or maintenance or in case of transformation of the product. Also excluded from the warranty are products that have been subject to tampering, alteration or modification by the customer user.

Wear parts and/or consumables cannot be covered by the warranty.

10.1.2.3. IMPLEMENTATION OF THE COMMERCIAL WARRANTY**10.1.2.3.1. PRODUCT COMMISSIONING AND COMMISSIONING DECLARATION**

No later than eight days after the delivery of the goods to the customer user, the DISTRIBUTOR shall complete the computerized declaration of commissioning form in order to activate the latter on the website www.pellenc.com, under the heading "extranet", menu "Pellenc Extranet Service", using the identifier previously issued by PELLENC.

Failing that, commissioning declaration will not be effective and implementation of the commercial warranty PELLENC will not occur. As a consequence thereof, the DISTRIBUTOR must ensure the financial burden of its intervention under the warranty without being able to pass on the cost to the client user.

The DISTRIBUTOR shall also undertake to complete the warranty card or the certificate of warranty and commissioning for self-propelled equipment provided with the product after having the client user sign and date it.

10.1.3. PAID AFTER-SALES SERVICE**10.1.3.1. GENERAL INFORMATION**

Malfunctions, breakdowns, breakages resulting from misuse, neglect or improper maintenance by the client user as well as malfunctions resulting from normal wear of the product are subject to the payment of after-sales service, even during the period of the legal and commercial warranty. After-sales service repairs that fall outside of the legal and commercial warranty also include maintenance, adjustments, diagnostics of all types, and cleaning without the present list being exhaustive.

10.1.3.2. WEAR PARTS AND CONSUMABLES

Wear parts and consumables also fall within the after-sales service.

10.1.3.3. SPARE PARTS

Paid after-sales service also covers original PELLENC spare parts, excluding labour and outside the legal and commercial warranty period.

In case of replacement of original PELLENC spare parts in the context of after-sales service, said latter are covered by a warranty of one year as from the installation date.

10.2. SPECIFIC WARRANTIES

PELENC S.A. guarantees its motor for a period of 2 years from the date of delivery.

PELENC S.A. guarantees its battery for a period of 2 years from the date of delivery provided that:

- The number of charging cycles does not exceed 100 per year;
- The battery charge capacity did not exceed 50 kWh since commissioning;
- The battery is used at temperatures between -5° C and +35° C;
- The battery is charged at temperatures between +10° C and +25° C;
- The battery has not gone into deep discharge;
- Average consumption does not exceed 450 mA.



Warning

Never open the pruning shears or battery pack, as this may void the warranty. Contact your authorised repair person.

11. STATEMENTS OF COMPLIANCE

11.1. CE STATEMENT OF COMPLIANCE: C45

MANUFACTURER / ENTITY AUTHORIZED TO COMPILE THE TECHNICAL FILE	PELLENC
ADDRESS	Quartier Notre-Dame - 84120 Pertuis (France)

We hereby declare that the machine referred to below as:

GENERIC DENOMINATION	ELECTRIC PRUNING SHEARS		
FUNCTION	INTENDED FOR PRUNING		
COMMERCIAL NAME	C45		
TYPE	C45		
MODEL	C45		
SERIAL No.	32W00001 - 32W49999	32X00001 - 32X49999	32Y00001 - 32Y49999

Complies with the relevant provisions of the Machinery Directive 2006/42/EC.

Complies with the provisions of the following European directives:

- 2014/30/EU EMC Directive; 2011/65/EU ROHS Directive; 1907/2006 REACH Regulation; 2012/19/EU WEEE Directive

The following harmonised European standards have been used in part or in full:

- EN 62841-1: 2015; EN 55014-1: 2017; EN 55014-2: 2015

SIGNED IN PERTUIS, DATED 2022-03-24

JEAN-MARC GIALIS

CHIEF EXECUTIVE OFFICER



11.2. UK DECLARATION OF CONFORMITY ^{UK}CA : C45

MANUFACTURER / ENTITY AUTHORIZED TO COMPILE THE TECHNICAL FILE	PELENC
ADDRESS	Quartier Notre-Dame - 84120 Pertuis (France)

We hereby declare that the machine referred to below as:

GENERIC DENOMINATION	ELECTRONIC PRUNING SHEARS		
FUNCTION	INTENDED FOR PRUNING		
COMMERCIAL NAME	C45		
TYPE	C45		
MODEL	C45		
SERIAL No.	32W00001 - 32W49999	32X00001 - 32X49999	32Y00001 - 32Y49999

Complies with the relevant provisions of the Supply of Machinery (Safety) Regulations 2008.

Complies with the following other directives and / or relevant provisions :

- Electromagnetic Compatibility Regulations 2016 ; The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 ; 1907/2006 REACH Regulations ; The Waste Electrical and Electronic Equipment Regulations 2013

The following harmonised european standards were used:

- BS EN 62841-1 : 2015 ; BS EN 55014-1 : 2017 ; BS EN 55014-2 : 2015

SIGNED IN PERTUIS, DATED 2022-03-24

JEAN-MARC GIALIS

CHIEF EXECUTIVE OFFICER



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   www.pellenc.com

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Quartier Notre Dame - 84120 Pertuis (France)

