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Translation of the original
user guide

USER GUIDE

Treelion

D45-700

D45-900

D45-1500



CONTENTS OF THE CASE :

TREELION with Adaptor unit

- Pruning shears with Adaptor unit
- Arm band
- Sharpening stone
- Adjusting wrench
- Tube of grease
- Flat-blade screwdriver
- Warranty card
- User's guide
- Hexagonal wrench

READ THE USER'S GUIDE CAREFULLY BEFORE USE



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INTRODUCTION

Dear Customer,

We thank you for purchasing the TREELION. When correctly used and maintained, this tool will provide you with years of satisfaction.



ENVIRONMENTAL PROTECTION

Your equipment comprises numerous materials which can be valorised or recycled. Entrust these to your reseller or to an approved service centre so that they can be processed.



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



SAFETY INSTRUCTIONS



PLEASE KEEP THESE INSTRUCTIONS

This manual contains important information and operating instructions for the following tool: TREELION D45 battery-powered pruning shears

It is **IMPERATIVE** that you read through the **ENTIRE USER'S MANUAL** before using or servicing the tool. Always comply with the instructions and illustrations in the manual.

All through this user guide you will find advisory notes and information entitled: **REMARK, CAUTION / WARNING**.

A **REMARK** provides additional information, clarifies a point or explains a step to be followed in detail.

The **CAUTION** and **WARNING** advisories are used to define a procedure which, if neglected or incorrectly performed, may lead to serious damage to the equipment and/or personal injury.

This advisory:  indicates that if the procedures or instructions are not complied with, any damage will not be covered by the warranty and the owner will be responsible for the 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 the «SAFETY INDICATIONS» heading in order to identify the location of the safety indications on the tool.

No part of this manual may be reproduced without the written consent of PELLENC. The technical characteristics and the illustrations given in this manual are for information purposes and are in no way contractual. PELLENC reserves the right to make any modification or improvement to its products as deemed necessary without informing customers already in possession of a similar model. This manual forms an integral part of the tool and must accompany the tool if it changes hands.

SAFETY INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS FOR THE TOOL



CAUTION Read all the safety measures and all the instructions.
Retain all the safety measures and instructions for later reading.

This device is not intended for use by anyone (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.

- The TREELION is a professional tool reserved exclusively for pruning vines and fruit trees.
- The PELLENC company declines all responsibility in the event of damage caused by improper use or use other than that for which it is intended.
- The PELLENC company also declines all responsibility in the event of damage caused through the use of non-genuine parts or accessories.

WORK AREA SAFETY

- 1**– Keep the work area clean and well lit.
- 2**– Do not operate power tools in an explosive atmosphere, for example in the presence of flammable liquids, gases, or dust.
- 3**– Keep children and bystanders away while operating the tool.

ELECTRICAL SAFETY

- 1**– The power tool's connector must be adapted to the socket. Never modify the connector in any way whatsoever. Do not use adapter plugs with earthed (grounded) power tools.
- 2**– Avoid body contact with earthed surfaces such as pipes, radiators, cookers, and refrigerators.
- 3**– Do not expose tools to rain or damp conditions.
- 4**– Do not misuse the power cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges, and moving parts.
- 5**– Use an extension cord suitable for outdoor use when operating power tools outdoors.
- 6**– If operating the power tool in a damp location is unavoidable, use a power supply protected by a residual current device (RCD).

PERSONNEL SAFETY

- 1**– Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol, or medication.
- 2**– Use safety equipment. Always wear eye protection.
- 3**– Avoid accidental starting of the tool. Make sure the switch is in the off position before connecting the tool to the power source and/or battery pack, picking it up, or carrying it.
- 4**– Remove any adjusting wrench before switching the tool on.
- 5**– Do not rush. Adopt a suitable position and remain balanced at all times.
- 6**– Dress appropriately. Do not wear loose clothing or jewellery.
- 7**– Keep hair, clothing and gloves away from moving parts.
- 8**– If devices are provided for connecting dust extraction and collection equipment, ensure that these are connected and properly used.

SAFETY INSTRUCTIONS

TOOL USAGE AND MAINTENANCE

- 1–** Do not force the tool. Use the tool suited for the job.
- 2–** Do not use the tool if the switch does not allow it to be switched on and off.
- 3–** Disconnect the plug from the power source and/or battery pack prior to any adjustment, change of accessories or before putting the tool away.
- 4–** When not in use, keep tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate it.
- 5–** Comply with the tool servicing instructions. Check that the moving parts are not out of alignment or jammed, that there are no broken parts or that there is no other condition which could affect the operation of the tool. If damaged, have the tool repaired before using it.
- 6–** Keep cutting tools sharp and clean.
- 7–** Use the tool, accessories and blades, etc. in accordance with these instructions, taking into account the working conditions and the work to be done.

MAINTENANCE AND UPKEEP

- 1–** Have the tool serviced by an authorised PELLENC distributor, using only identical spare parts.

SAFETY WARNINGS FOR TREELION D45 BATTERY-POWERED SHEARS

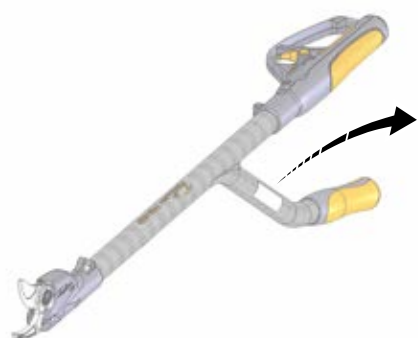
- 1–** Never modify the connector in any way whatsoever.
- 2–** THIS TOOL MAY CAUSE SEVERE INJURIES. Read carefully the instructions relative to the proper handling, operation, maintenance, start-up and stop of the pruning shears. Familiarize with all the controls and proper use.
- 3–** When the pruning shears are not in use, systematically turn the battery off «0»
- 4–** Before starting the motor, make sure that the blade is not in contact with any object.
- 5–** Always use a suitable lifting device complying with the working regulations in force for overhead works.
- 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 it is faulty.
- 8–** Never disconnect the pruning shears power cord without first checking that the ON/OFF switch of the battery has been set to OFF «0».
- 9–** Never carry the pruning shears suspended from the power cord.
- 10–** Do not disassemble the pruning shears.
- 11–** Do not open the direct box.
- 12–** Do not try to cut too large pieces of wood or other materials than wood.

SAFETY MEASURES FOR THE CHARGER AND THE BATTERY



Refer to the Pellenc tools battery manual.

SAFETY INDICATIONS



1



1– Read the user manual

2



2– It is mandatory to wear goggles

3



3– Electrically conductive materials. Stay at least 10 meters away from all electrical sources.

4



4– Do not expose to rain

77902-B

DESCRIPTION AND TECHNICAL CHARACTERISTICS

1a/1b– Battery connector plug

2– Shears cord

3a/3b– Tool connector plug

4– Pruning shears

5– Main trigger

6– Secondary trigger

9– Sharpening stone

10– Arm band

11– Charger connector

12– Switch

13– Charge level indicator

14– Complete battery pack*

15a/15b– Tool connector

28– Adaptor unit

Tooling:

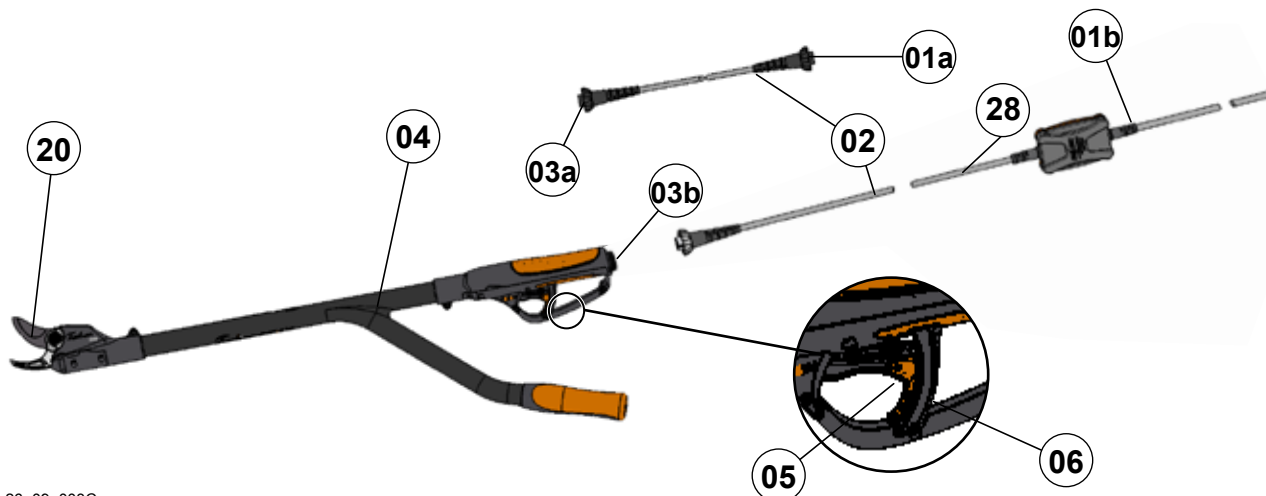
flat-blade screwdriver

adjusting wrench blade pin

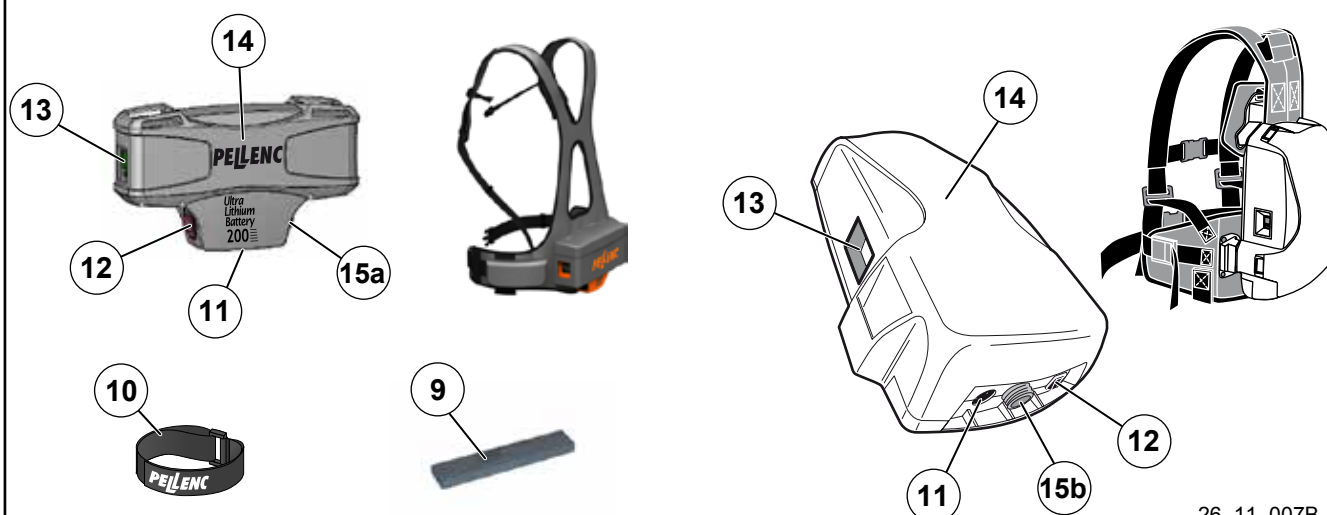
Hexagonal wrench

tube of grease

* Varies between models



26_09_003C



26_11_007B

TECHNICAL CHARACTERISTICS

	Treelion D45
Cutting capacity	up to 45 mm depending on the type of wood
Pruning shears supply voltage	44 V
Average power rating	320 W
Working capacity (time)	According to use and battery type
Weight of pruning shears	TREELION-D45 700 : 1,6 kg TREELION-D45 900 : 1,7 kg TREELION-D45 1500 : 1,9 kg
Total vibration values (triax vector sum) determined in accordance with EN 60745-1 (Uncertainty K=1.5 m/s ²)	$a_h < 2.5 \text{ m/s}^2 \text{ max.}$

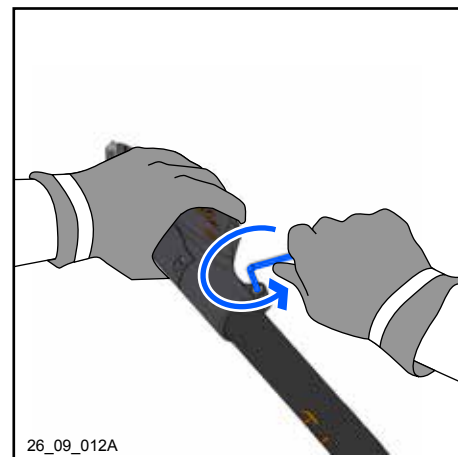
Noise value measured according to the standard EN 60745-1	
Sound power level measured (Uncertainty K=3 dB)	$L_{WA} = 81 \text{ dB maximum}$
Level of acoustic pressure at the work station measured (Uncertainty K=3 dB)	$L_{pA} = 70 \text{ dB maximum}$

USING FOR THE FIRST TIME

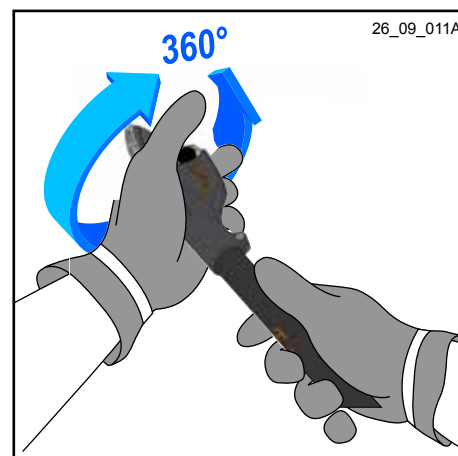
- Remove shears and cord from packaging
- Adjust cutting head direction and grip on shears (see paragraphs below)

CUTTING HEAD DIRECTION

- Loosen the cutting head screw with the hexagonal wrench



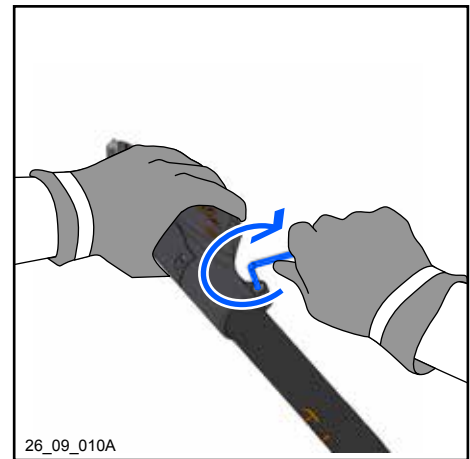
- Place the cutting head in the desired direction



Do not pull on the cutting head while rotating - keep it pressed against the shaft.

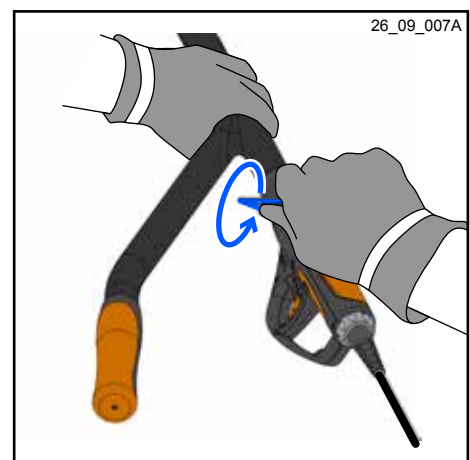
CUTTING HEAD DIRECTION

- Tighten the screw on the cutting head with hexagonal wrench (2,5 N·m)



ADJUSTING THE GRIP DIRECTION

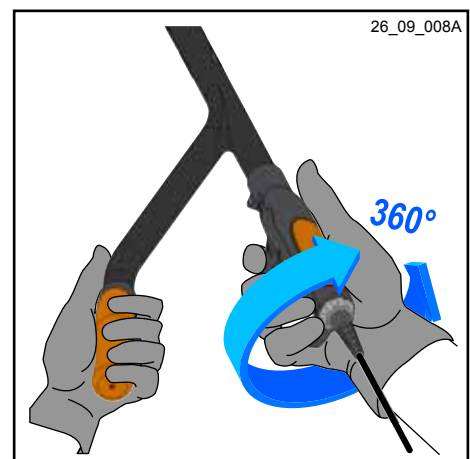
- Loosen the grip screw with the hexagonal wrench



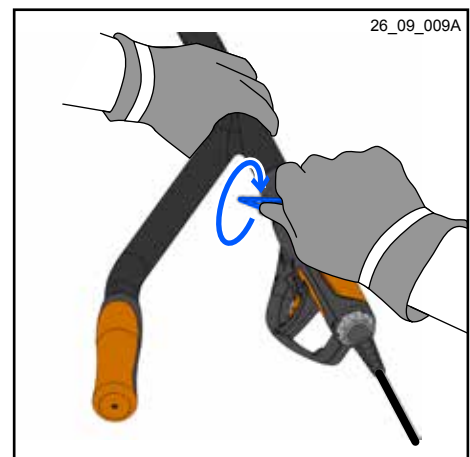
- Place the grip in the desired direction



Do not pull on the grip while rotating - keep it pressed against the shaft.



- Tighten the grip with hexagonal wrench (2,5 N·m)



- See the instruction manual of the battery to be used for information about the carrying strap or harness



REMINDER

Make sure that the ON/OFF switch (12) is set to OFF position «0» (red section no longer visible).

VERSION TREELION D45 + CORD + SHEARS BATTERY

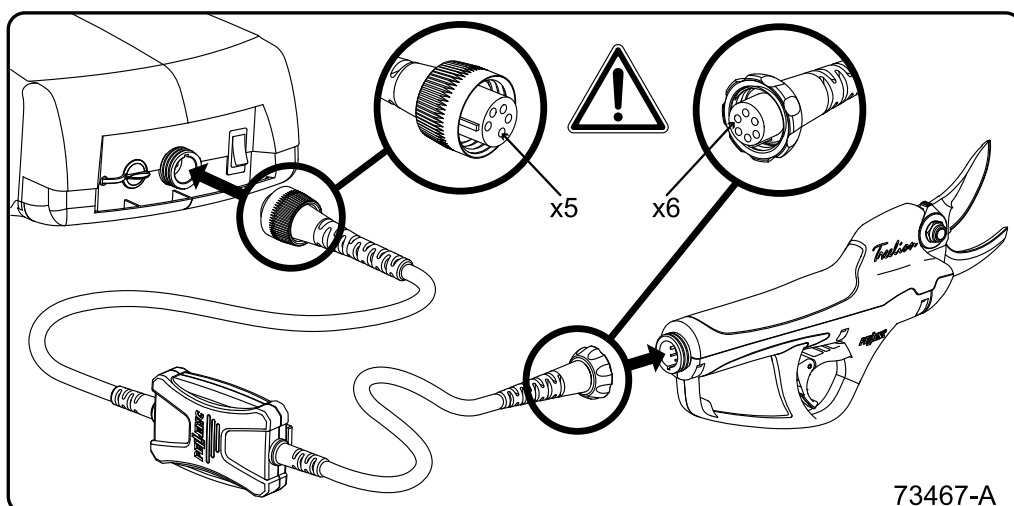
- The cord can be installed in both directions.
- Insert cord plug **01a** in outlet **15a** on battery pack. Manually tighten locknut.
- Insert cord plug **03a** on back of shears. Manually tighten locknut.

VERSION TREELION D45 + ADAPTOR UNIT + MULTIFUNCTION BATTERY

- Insert cord plug **01b** in outlet **15b** on battery pack. Manually tighten locknut.
- Insert cord plug **03b** on back of shears. Manually tighten locknut.



BE SURE TO INSTALL IN THE RIGHT DIRECTION!



USE

- Hold the pruning shears.
- **For use in progressive mode**, press trigger **05** with your index finger, and with the other hand, move switch **12** from position «0» to position «1» (the red face appears). **For use in non-progressive mode**, do not press the trigger and move switch **12** from position «0» to position «1» (the red face appears).
- Wait until the battery beeps 3 times.
- The pruning shears are switched on but inoperative.
- Press and release trigger **05**; the pruning shears become operative in the chosen mode.
- To stop the pruning shears, close blade **20** using trigger **05**, keep the trigger pressed, move switch **12** to the off position «0» (the red face disappears).
- If the wood that is cut is too thick, the pruning shears stop during blade closing. The only possibility is to open the blade.

PROGRESSIVE MODE (FULL OPENING)

- In this mode, the blade follows the finger movement in a proportional manner.
- To save battery power and ensure maximum working capacity for the pruning shears, we advise you to keep the blades closed and to open them only to the size of the wood to be cut.

SEMI-OPEN MODE

- In this mode, the blade closes when the trigger is pressed.
- When main trigger **05** is pressed, the blade closes.
- When main trigger **05** is released, blade opened in semi-open mode.
- When secondary trigger **06** is pressed, the blade opens fully.

SAFETY MODE

Remark : In this mode, the tool is stopped with the blade closed, when switched on, and without operating switch **12**.

- Safety mode is activated automatically, after the tool is not used for 1 minute.
- The safety mode can be activated by pressing both triggers **05** and **06** at the same time for 2 seconds.
- To deactivate the safety mode, press trigger **05** and release it.

ADVICE FOR USE

- You must take all necessary precautions to prevent the pruning shears power supply lead **02** from snagging in the branches. For this purpose, attach lead **02** to your arm using arm band **10** supplied, or feed it through your sleeve.
- The endurance and service life of the pruning shears depend mainly on the correct sharpening and tightening of the blade. This must be checked continuously as you would with hand shears (refer to MAINTENANCE).
- It is recommended that you do not disconnect the shears from the battery pack after daily use.

REMARKS

- Several hours of pruning are necessary to master the use of the pruning shears.
- The battery is discharged when charge level indicator **13** shows 0 %.
- If the shears no longer cut cleanly and effortlessly, this means the shears are consuming more power than necessary. Check the sharpness and overall condition of the shears.

SHARPENING

This operation is essential because it determines the cutting quality and the service life of the blades, the mechanical components and the endurance of the battery. Sharpening frequency depends of course on the wood that is cut (hardness and diameter), the pruning rate and the sharpening tool (a special stone **09** is provided). Therefore, during the first days of use, the condition of the blade cutting edge must be checked regularly in order to maintain the edge by resharpening it little but often (a check every quarter of an hour will quickly give you an idea of this frequency).

IT IS IMPORTANT TO REMOVE THE BURR FROM THE BLADE CUTTING EDGE AND TO PERFORM THE FIRST SHARPENING OPERATION AFTER THE FIRST 15 MINUTES.

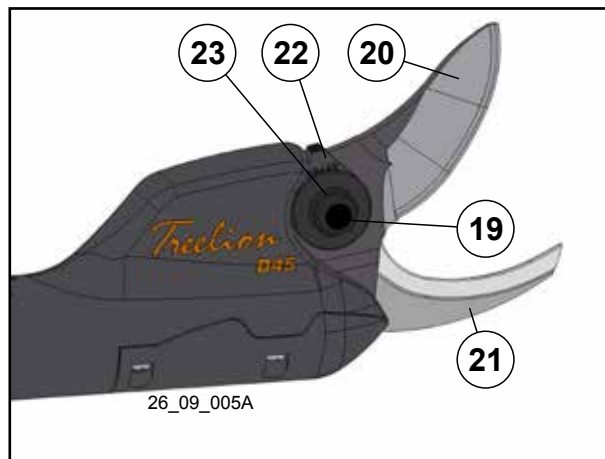
TIGHTENING THE BLADE

- There must be no lateral play.
- The play in the cutting direction must be tactile.

To obtain this play:

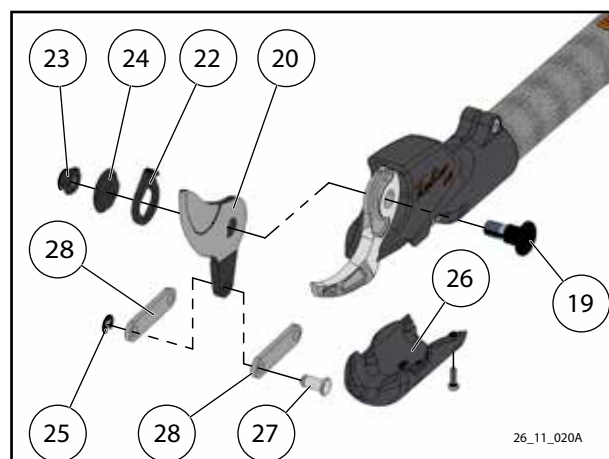
- Perform these operations with the blade open, with the switch in position «0».
- Tighten adjustment nut **23** until knurled adjusting washer **22** no longer turns.
- Loosen adjustment nut **23** by a quarter turn.
- Check the tightness of the blade:
 - The knurled washer **22** must turn with the blade open.
 - The knurled washer **22** must not turn with the blade closed.
- Re-adjust the tightness if necessary using the adjustment nut **23** with the adjustment wrench.
- Excessive tightening can cause incorrect operation, incorrect cutting at the blade tip and reduced endurance of the battery.

- 19** Blade pin
- 20** Blade
- 21** Hook
- 22** Knurled adjusting washer
- 23** Lock nut



DESCRIPTION OF THE CUTTING HEAD

- 19 Blade pin
- 20 Blade
- 22 Knurled adjusting washer
- 23 Lock nut
- 24 Washer
- 25 Clip, dia. 3.17
- 26 Inspection cover
- 27 Shouldered pin
- 28 Link



REPLACING THE BLADE OR PINS

Follow the instructions in the given order:

- Open the blade **20** fully.
- Move switch **12** to position «**0**».
- Disconnect cord **02** from the pruning shears.
- Remove inspection hatch **26**.
- Remove nut **23** from the pin of blade **19**.
- Remove shouldered pin **27** by removing 3.17mm-diameter clip **25** and disassemble the assembly.
- Replace the worn parts.
- Reinstall blade **20** on the hook after having greased the contact surface, then install the pin of blade **19**.
- Reinstall shouldered pin **27** and a new clip **25** (only use new clips).
- Reinstall washers **22** and **24** and adjustment nut **23**.
- Reinstall inspection hatch **26**.
- Tighten adjustment nut **23** on the pin of blade **19** while referring to the previous paragraph.
- Reconnect the pruning shears.



CAUTION: Never operate the pruning shears without the blade and its pins; this will damage the body of the pruning shears.

REPLACING THE HOOK

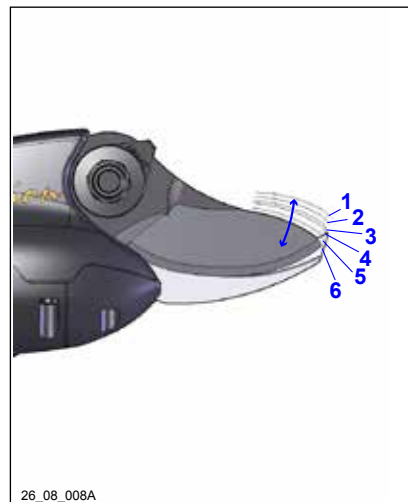
The hook must be replaced exclusively by an approved distributor.

ADJUSTING BLADE BYPASS



Remark: Do not leave the trigger inactive for more than 1.5 seconds after the 3 beeps, between points B and D or D and E.

- A. Press trigger **05** with your index finger, and with the other hand, move switch **12** from position «0» to position «1» (the red face appears).
- B. Wait until the battery beeps 3 times.
- C. The pruning shears are switched on but inoperative.
- D. Press and release trigger **05**; the pruning shears become operative.
- E. Press and hold trigger **05** for 5 seconds.
- F. The blade moves from one position to another from amongst 6 blade overlap positions.
- G. To memorize the chosen blade overlap, release the trigger when the blade is in the desired position.

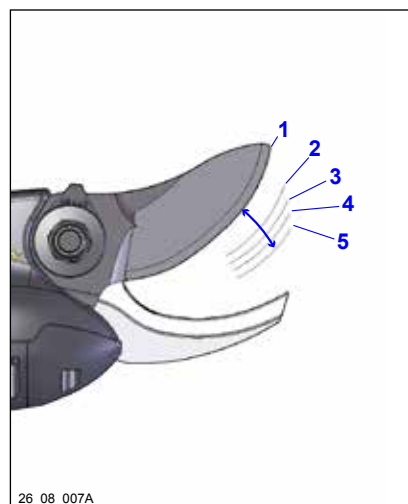


ADJUSTMENT OF BLADE HALF-OPEN POSITION



Remark : Do not leave the trigger inactive for more than 1.5 seconds after the 3 beeps, between points B and D or D and E.

- A. Without pressing trigger **05**, move switch **12** from position «0» to position «1» (the red face appears).
- B. Wait until the battery beeps 3 times.
- C. The pruning shears are switched on but inoperative.
- D. Press and release trigger **05**; the pruning shears become operative.
- E. Press and hold the trigger **05** for 5 seconds.
- F. The blade moves from one position to another from amongst 5 half-open positions.
- G. To memorize the chosen blade half-open position, release the trigger when the blade is in the desired position.



MISCELLANEOUS MAINTENANCE

- Clean frequently to avoid the formation of abrasive paste (lubricant + soil) as follows:
 - Clean the front of the shears with a cloth and dismantle the access cover once a week to remove potential plant debris. Remove all deposits. Avoid solvents such as: trichlorethylene, white spirit, cleaning fluid etc.
 - Grease the blade and the blade pins **lightly but often** (1 per week).
 - Do not leave the pruning shears on soil or exposed to the weather.
-
- **EVERY 200 HOURS**, replace parts **19, 20, 22, 23, 24, 25, 27, 28 and 29**.
 - **These parts must be replaced as a precautionary measure or at least every year.**
 - **To do so, use the following replacement kits:**
 - **P/N 73101: 20, 25, 27**
 - **P/N 73100: 19, 22, 23, 24**
 - **P/N 78837: 25, 28, 27**
-
- **The link kit (P/N 73361) must be replaced exclusively by an approved distributor.**

REPLACING THE BATTERY

The battery must be replaced exclusively by an approved distributor.

OUTSIDE THE PRUNING PERIOD

- Store the shears, battery pack and charger in a clean, dry and cool place, and check that the switch (12) is in OFF position «0».
- Never store the battery at an ambient temperature greater than +45 °C.
- **To conserve the service life of the battery and to prevent its deterioration, it is essential to store it in the charged state and to recharge it every 10 months when it is not used.**
- Do not operate the switch during the storage period.
- OUT OF SEASON, you can have the pruning shears overhauled by an approved repair center. For further information, consult your repair center or contact us.
- The battery must be stored in a dry and temperate area between 0 °C and 40 °C. No flammable object must be placed within 1.5 meters of the battery.

INCIDENTS

If your pruning shears no longer work:

- Set switch **12** to position «**0**».
- Check the battery charge on the charge level indicator.
- Check that lead **02** is correctly connected and that ring **01** is tightened.
- While pressing trigger **05**, set switch **12** to the on position «**I**».
- If the pruning shears still do not work, return the assembly in its original packaging to an approved repair center.

NEVER ATTEMPT TO OPEN ANY COMPONENTS (SHEARS, PACK, BATTERY) EXCEPT FOR THOSE DESCRIBED IN THIS INSTRUCTION MANUAL (you may damage them, and in particular, you will lose the benefit of the warranty).

«PELLENC SA» TERMS OF WARRANTY AND NON-RESPONSIBILITY CLAUSE MACHINE RANGE FOR OEP

In the event of failure of a mechanical part and subject to normal, rational use and maintenance in compliance with the maintenance manual, **PELLENC sa guarantees its products for a period of ONE YEAR** as of delivery; this time shall not exceed a period of 18 months following departure from the factory of the equipment under warranty : on one hand in accordance with the conditions stipulated in the warranties of PELLENC sa and on the other hand subject to the delivery report indicating the commissioning date was made known to PELLENC sa.

In the event of an accident and total or partial destruction of the product, PELLENC sa's warranty can only be granted, and their responsibility engaged, if the party claiming the warranty can provide technical proof specifying the origin of the accident, a defect in materials or a structural defect and the product components which are the cause of it.

This contractual warranty excludes any other responsibility of PELLENC sa, whether implicit or explicit. For this reason, the responsibility of PELLENC sa can not exceed the limits defined above and covers, to a limited extent, repair **or** replacement, as chosen by PELLENC sa, of parts recognized to be defective and, when applicable, the labour required to perform the repair or replacement on the basis of warranty time as defined by PELLENC sa.

Any maintenance or repair work whatsoever carried out during the warranty period shall mandatorily be performed by PELLENC sa or by a PELLENC sa authorized dealer, under penalty of forfeiture of the warranty.

All costs arising from the immobilization, movement, approach and transport shall be, in all events, for the sole account of the purchaser.

As concerns parts or equipment that are not manufactured by PELLENC sa, in particular ball screw, battery, etc., the warranty is limited to that of the suppliers to PELLENC sa. Normal wear parts worn out as the result of use are never under warranty.

PELLENC sa and the authorized dealer shall not be liable in the following cases:

- Malfunctions due to faulty servicing, user inexperience or abnormal use.
- Failure to perform overhauls and checks in accordance with manufacturer's instructions.
- Replacement of genuine parts or accessories with parts of accessories of another origin, or when the machine sold has been transformed or modified.

This warranty is explicitly limited to the terms defined above. **PELLENC sa shall not be liable, under any circumstances, for payment of any indemnity for any reason whatsoever.**

However, it is specified, in compliance with the provisions of decree No. 78.464 dated March 24th 1978, that this contractual guarantee does not replace the legal guarantee which obliges the seller to guarantee the buyer against the consequences of defects or hidden defects of the object sold.

SPECIAL WARRANTY CONDITIONS

PELLENC s.a. guarantees its motor for a period of **THREE YEARS** from the date of delivery.

PELLENC s.a. guarantees the battery for a period of **THREE YEARS** from the date of delivery, on the condition that:

- the number of recharging operations does not exceed 100 per year,
- the battery charging capacity has not exceeded 1 000 000 mAh since it was put into service,
- the battery is used at a temperature of between -5 °C and +35 °C (+23 °F and +95 °F),
- the battery is charged at a temperature of between +10 °C and +25 °C (+50 °F and +77 °F),
- the battery has not been heavily discharged,
- the average consumption does not exceed 350 mA.



NEVER ATTEMPT TO OPEN THE PRUNING SHEARS OR «BATTERY» PACK OR THE WARRANTY WILL BE NULLIFIED. CONTACT AN APPROVED REPAIR CENTER.

PATENTED EQUIPMENT

- The technical characteristics are given for information purposes; they are in no case contractual.
- **PELLENC** reserves the right to make all design and manufacturing changes deemed necessary in order to enhance **PERFECTION**.

Roger PELLENC

Chief Executive Officer

"EC" DECLARATION OF CONFORMITY

MACHINES DIRECTIVE 2006/42/CE, APPENDIX IIA.

(ONLY CONCERNS EUROPE)

MANUFACTURER	PELLENC S.A.
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - B.P. 47 84122 PERTUIS CEDEX (FRANCE)
PERSON/ENTITY AUTHORISED TO COMPILE THE TECHNICAL DOSSIER	PELLENC S.A.
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - B.P. 47 84122 PERTUIS CEDEX (FRANCE)

WE HEREBY DECLARE THAT, FOR THE MACHINE HEREINAFTER REFERRED TO AS:

GENERIC DENOMINATION	ELECTRIC PRUNING SHEARS		
FUNCTION	INTENDED FOR PRUNING		
COMMERCIAL NAME	TREELION		
TYPE	TREELION D		
MODEL		D45-700	D45-900 D45-1500
SERIAL No.	32P00001 - 49999 32P50000 - 99999		

COMPLIES WITH THE PERTINENT PROVISIONS OF THE MACHINES DIRECTIVE (2006/42/CE)

AND COMPLIES WITH THE PROVISIONS OF THE FOLLOWING OTHER EUROPEAN DIRECTIVES:

- ELECTROMAGNETIC COMPATIBILITY (2004/108/CE)
- LIMITATION OF THE USE OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (2011/65/EU)
- RECYCLING AND RECOVERY OF ELECTRICAL AND ELECTRONIC WASTE (2012/19/EU)

THE FOLLOWING HARMONIZED EUROPEAN STANDARDS WERE USED:

- EN 55014-1 : 2006 + A1 : 2009 + A2 : 2011
- EN 55014-2 : 1997 + A1 : 2001 + A2 : 2008
- EN 61000-3-2 : 2006 + A1 : 2009 + A2 : 2009
- EN 61000-3-3 : 2013
- EN 60745-1 : 2009 + A11 : 2010

CONCLUDED AT PERTUIS, DATED 02/02/2015

ROGER PELLENC
CHIEF EXECUTIVE OFFICER

