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Translation of the original user guide

### **USER GUIDE**

# Treelion M45



#### **CONTENTS OF THE CASE:**

#### **TREELION** adaptable 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

### **Self-contained TREELION (with battery and cord)**

- · Pruning shears with Cord
- 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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Dear Customer.

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

With more than 20 years of experience in portable electric equipment, Pellenc proposes a large range of Lithium-Ion and Lithium-Polymer powered tools intended for professional use and designed for maintenance work in green spaces, orchards and vineyards, and cleaning equipment for public roads.

Pellenc sets the stage for a new generation of tools combining the advantages of cordless electricity with the power of Lithium-Ion and Lithium-Polymer, designed for intensive, high quality work.

Increasingly quiet and compact, environmentally friendly, economically very profitable and complying with ever more strict specifications regarding ergonomics, power and autonomy, Pellenc tools prove their worth every day, whether in vineyards, orchards or for the maintenance of green spaces and public sectors. Pellenc tools are the world leader in this field.

Because of the lightweight nature and easy handling of PELLENC tools, users can work better, with less effort, without noise and faster than with heat-engine powered tools.

A single unique energy source powers PELLENC tools intended for professional use: The Ultra Lithium Battery. This revolutionary battery is available in several models, with extended work capabilities. Once purchased, this battery is compatible with most of the Pellenc Green and City Technology range of products.

«Innovation, ability to listen, quality and environmental friendliness are PELLENC priorities.»

#### **OUR high capacity Ultra Lithium-Ion BATTERIES**

**PELLENC** is the first and only manufacturer worldwide to propose a whole range of professional tools for Parks and Gardens, Local Authorities, Golf Courses, Orchards, Vineyards etc. operated using ultrahigh capacity ternary Lithium-Ion batteries.

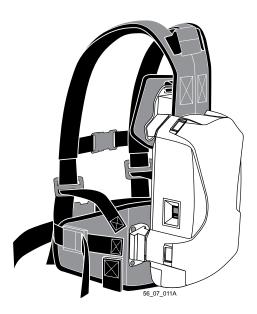
PELLENC has developed its own Lithium-based technology for the best results in terms of output power, autonomy, weight and ergonomics. The result is enlightening as the Pellenc Lithium-lon technology is nearly twice more efficient than the Manganese Lithium-lon technology. Manganese Lithium-lon contains 125 W/kg, while Pellenc Lithium-lon contains 250 W/kg.

Furthermore, our ultra-high capacity batteries have an ranging from 800 to 1,500 cycles (one cycle corresponds with a full charge and discharge). Even after hundreds of days of use, the battery still reaches over 80% of its initial capacity.

Equipped with a **patented intelligent system**, Pellenc batteries can be charged at any time without memory effect and without altering their lithium-ion components. They automatically discharge after several days of non-use in order to be stored risk free for several months.

The ultra-high capacity of Ultra Lithium Batteries guarantees pollution free, odourless and quiet operation with a record level of autonomy.

### For example, a PELLENC ULB 1100 battery is equivalent to over **4700 liters of gasoline and 90 liters of mixture!**



#### **Characteristics of the ULTRA LITHIUM BATTERY**

- **Secure system (patented)** guarantees the preservation of your battery in the event of overloading, discharging or over-heating
- **Life system (patented):** ensures an optimum service life for your battery by protecting each of the components individually
- **Balance system (patented):** guarantees the balancing of the various battery components in order to optimise balanced operation
- **Power system (patented):** enables use of the entire range of PELLENC tools within the scope of a professional activity thanks to the restitution of the battery's maximum capacity

#### **Advantages of the ULTRA LITHIUM BATTERY**

- **Environmentally friendly** the energy used by PELLENC tools is environmentally friendly and participates in an initiative towards sustainable development. Compared to equivalent heat engine powered tools, CO2 emissions are 30 to 90 times lower.
- Power: PELLENC equipment ensures the user has an unequalled power supply of up to 3,000 W.
- **Savings:** the battery permits up to a full day of work at a derisory total cost.
- **Ergonomics:** PELLENC tools are very quiet and light, offering unrivalled comfort and optimal working conditions.
- Cost-effectiveness: the cost of your battery will be recovered in under a year of use (from 135 days).
  The return on investment in the battery over its service life is greater than 5,000 € thanks to the savings on fuel which is not required\*.

#### Compatibility of our batteries with our machines:

All PELLENC multi-function Ultra Lithium Batteries can be used on all of our machines. However, we recommend the use of batteries according to the tool, in order to achieve an increased optimization of autonomy, power and weight.

<sup>\*</sup> You use 5L of mixture per day at a price of €1.50 per litre. Data calculated for the regular use of the ULiB 1100 battery.

## RECOMMENDED USE OF BATTERIES AND TOOLS ACCORDING TO THEIR POWER AND AUTONOMY\*

	SPECIFIC		MULTIF	MULTIFUNCTION BATTERIES	TERIES	
	200	400	200	1100	POLY 5	OLIVION
Weight in kg (no harness nor belt)	1.9	3.4	5.5	5.9	3.4	5.5
LIXION Evolution - vineyard	1 to 3 days					
pruning shears	I to 3 days					
LIXION Evolution adaptable - vineyard pruning shears		2 / 6 days	5 days	10 days	3 / 7 days	5 days
TREELION autonomous orchard pruning shears	1 to 2 days					
TREELION adaptable orchard pruning shears		3 days	4 / 5 days	7 days	3.5 days	4 / 5 days
HELION – hedge trimmer		1/2 day	Up to 1 day	Up to 2 days	1/2 day	Up to 1 day
OLIVION – olive harvester		2 to 4 hours	Up to 1 day	Up to 2 days	3 to 5 hours	Up to 1 day
CULTIVION – hoeing machine		2 to 4 hours	Up to 1 day	Up to 2 days	3 to 5 hours	Up to 1 day
SELION Pole - chainsaw		1 to 3 hours	Up to 1 day	Up to 2 days	2 to 5 hours	Up to 1 day
SELION M12 - chainsaw		1 to 3 hours	Up to 1 day	Up to 2 days	2 to 5 hours	Up to 1 day
SELION C21 HD - chainsaw		1 to 3 hours	3 to 5 hours	Up to 1.5 days	2 to 5 hours	
EXCELION 1200 – grass-cutting brush cutter		1 hour	2 to 3.5 hours	3 to 5 hours	1 to 2 hours	
EXCELION 2000 – brush cutter**			2 to 3 hours	3 to 4,5 hours	1 to 2 hours	
AIRION - blower		1 hour	2 to 3.5 hours	3 to 5 hours	1 to 2 hours	

<sup>\*</sup> Battery life depends on the tool, the use and the vegetation being worked on.

Recommended use

<sup>\*\*</sup> Autonomy is calculated using the Eco mode

#### **OUR high output MOTORS**

As well as Lithium-Ion technology, PELLENC masters the use of another: revolutionary PELLENC **electronic commutation motors**.

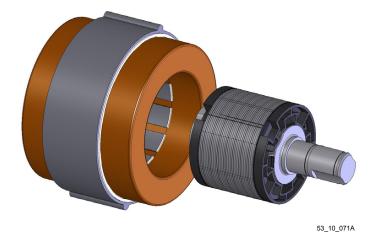
With these revolutionary motors, PELLENC has effectively rendered **the heat engine obsolete**. PELLENC intends to impose its idea of the tool for tomorrow: **powerful, light and pollution-free tools**.

Furthermore, the PELLENC technology motor is the only electric motor with as much **power output with the added advantage of being small, giving it an ideal weight**. The output of this motor is significantly higher than that of traditional direct-current motors with brushes. Friction caused by the brushes disappears, **the output of PELLENC motors is nearly 90** %.

PELLENC motors are **Brushless motors**. This means that their service life is theoretically infinite, with only the service life of the ball bearings limiting the motor's service life. There is no **need for motor maintenance**, **as opposed to heat engines**.

PELLENC Brushless motors stop completely each time the trigger is pressed, on the contrary to heat engines. Therefore, sound emissions are very low to the benefit of the user and his immediate surroundings!

Finally, PELLENC Brushless motors often drive the cutting element directly (**no clutch or reduction gearbox, meaning less noise and wear**). Motor control is electronic, as is the power supply, meaning that noises linked to mechanical part movements are extremely limited.



By using PELLENC battery and motor technology, you benefit from several advantages:

- energy savings
- ease and comfort of use
- free from motor maintenance
- power equivalent to and often higher than combustion engines
- extremely profitable tools
- lightweight
- no noise pollution or odors
- virtually inexistent carbon emissions
- Immediate start-up, no need for a starter.

#### PELLENC OFFERS TECHNOLOGY WHICH MAKES THE HEAT ENGINE OBSOLETE

#### **OUR RANGE OF PRODUCTS**

PELLENC Green and City Technology develops new products every year in an aim to meet the requirements of professionals.

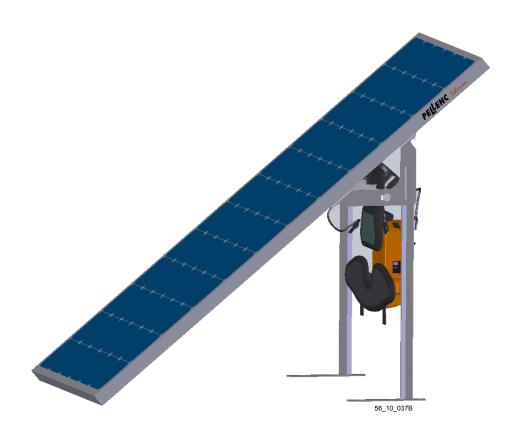
Today, our range of products is growing and our engineers are doing their utmost to create tools, thus pushing technology advances further.

Our passion is innovation, with an aim to improve the working quality and conditions for professionals by supplying a complete range of powerful, lightweight, easy-to-handle and very profitable tools:

- our blowers operate quietly with power modulation.
- our hedge-trimmers combine comfort and performance.
- our grass-cutting brush cutters are robust and multi-functional.
- our chainsaws are lightweight, powerful and very easy to handle.
- our pruning shears are the most powerful in the world.
- our hoeing machines, which are unique in the world, replace cumbersome rotary hoes.
- our olive harvesters are exceptionally efficient.
- our vine tying machine combines efficiency and profitability.
- our batteries have a very high autonomy.
- our mobile solar panel offers the possibility to charge your batteries anywhere.
- Exceptional light output of our autonomous lighting systems.

All of our tools have minimal CO2 emissions and meet the requirements of Local Collectivities or other associations in terms of a sustainable environment and ecology.

PELLENC is the only company to propose a full range of tools which are 100 % clean and with zero CO2 emissions thanks to the SOLERION solar panels which can be used to recharge our batteries.







#### **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 M45 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 THE TREELION M45 BATTERY POWERED PRUNING 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.

#### **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

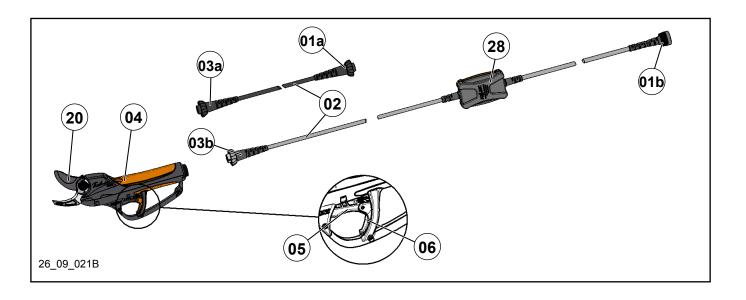
13- Charge level indicator

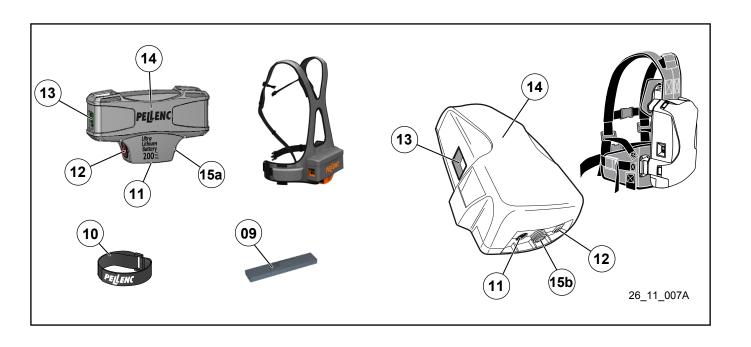
14- Complete battery pack\*

15a/15b- Tool connector

\* Varies between models

28– Adaptor unit Tooling: flat-blade screwdriver adjusting wrench blade pin Hexagonal wrench tube of grease





#### **TECHNICAL CHARACTERISTICS**

	Treelion M45
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	945 g

Total vibration values (triax vector sum) determined in accordance with EN 60745-1. (Uncertainty K=1.5 m/s²)	a <sub>h</sub> <2.5 m/s² max.
--------------------------------------------------------------------------------------------------------------	-------------------------------

Noise value measured according to the standard	I EN 60745-1
Sound power level measured (Uncertainty K=3 dB)	L <sub>WA</sub> = 81 dB maximum
Level of acoustic pressure at the work station measured (Uncertainty K=3 dB)	L <sub>pA</sub> = 70 dB maximum

#### **USING FOR THE FIRST TIME**

- · Remove shears and cord from packaging.
- 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).

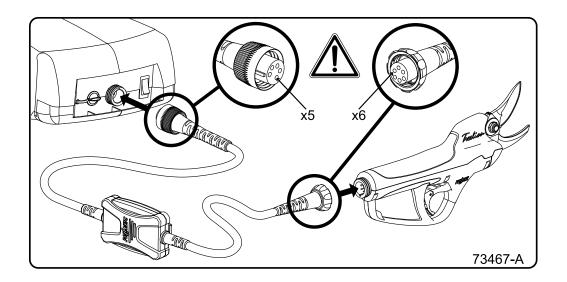
#### **VERSION TREELION M45 + CORD + SHEARS BATTERY**

- 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 M45 + 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 (after closing the blade).
- 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.

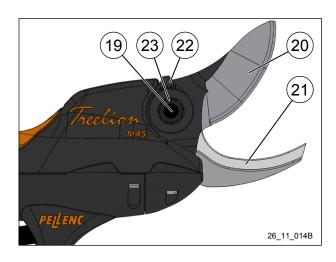
#### **TIGHTENING THE BLADE**

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

To obtain this play:

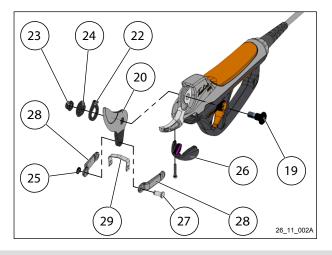
- Perform these operations with the blade open, with the switch in position «0».
- Tighten adjustment nut 23 until knurled adjusting washer 22 no longer turns.
- · Loosen adjustment nut 23 by a quarter turn.
- · Check the tightness of the blade:
  - The knurled washer 22 must turn with the blade open.
  - 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
- 29 Link clips



#### REPLACING THE BLADE OR PINS

Follow the instructions in the given order:

- · Open the blade 20 fully.
- Check that the inspection cover tab is in the open position
- 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.

#### ACCESS COVER REPLACEMENT

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 the former access cover 26.
- · Reinstall the new access cover 26.
- · Close the blade 20.



CAUTION: Do not install the new access cover with the blade closed because it may be damaged.

#### REPLACING THE HOOK

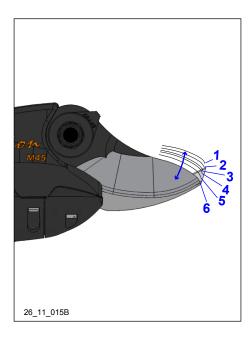
The hook must be replaced exclusively by an approved distributor.

#### 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.

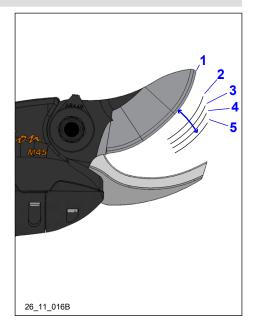


#### ADJUSTMENT OF BLADE HALF-OPEN POSITION



**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 halfopen 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 pruning shears using a cloth and compressed air; avoid the use of solvents such as: trichlorethylene, white spirit, gasoline, 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, 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, 27P/N 73100: 19, 22, 23, 24
- 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 loose 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 M
MODEL	TREELION M45
SERIAL No.	

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 03/03/2014 ROGER PELLENC CHIEF EXECUTIVE OFFICER

