

Instructions - User Manual

**BATTERY PRUNING SHEARS**

**TP4600**



**ALNOVA<sup>®</sup>**

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**ANOVA** thanks you for choosing one of our products and guarantees the assistance and cooperation that has always distinguished our brand over time.

This machine is designed to last for many years and to be of great use if used in accordance with the instructions contained in the user manual. We therefore recommend that you read this instruction manual carefully and follow all our recommendations.

For more information or doubts, you can contact us through our web supports such as [www.anovamaquinaria.com](http://www.anovamaquinaria.com).

## **INFORMATION ABOUT THIS MANUAL**

Please pay attention to the information provided in this manual and on the appliance for your safety and that of others.

- This manual contains instructions for use and maintenance.
- Take this manual with you when you go to work with the machine.
- The contents are correct at the time of printing.
- The rights to make changes at any time are reserved without affecting our legal responsibilities.
- This manual is considered an integral part of the product and must remain with it in case of loan or resale.
- Ask your dealer for a new manual in case of loss or damage.

## **READ THIS MANUAL CAREFULLY BEFORE USING THE MACHINE**



To ensure that your machine provides the best results, please read the usage and safety regulations carefully before using it.

## **OTHER WARNINGS:**

Incorrect use could cause damage to the machine or other objects.

The adaptation of the machine to new technical requirements could cause differences between the content of this manual and the purchased product.

Read and follow all instructions in this manual. Failure to follow these instructions could result in personal injury

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## 1. Items in the box

The tool includes the following components in the carrying case in which it is supplied.

1. electric pruning shears
2. lithium batteries
3. Charger
4. Battery Restraint Harness
5. sharpening stone
6. Tools kit
7. Lubricant oil



## 2. Product Description

### 2.1 General instructions



1. Read the instructions in their entirety.
2. Battery charging must only be carried out in protected indoor locations.
3. As it has double insulation, it is not necessary to ground when handling this tool.
4. It is distributed with a safety charging transformer.
5. If the battery charge overheats, it will automatically cut off the charging process.
6. Do not dispose of chargers in household waste.
7. Do not dispose of exhausted or damaged batteries in household waste

### 2.2 Intended use

The pruning shears with the bead is an electric tool and is made up of a fixed blade, a mobile cutting blade, a lithium battery, an adapted charger, a connection cable, a tool bag and a carrying case. The charging voltage ranges from 110V-240V AC.

The main application of these scissors is for pruning branches in fruit trees, treatment and maintenance of orchard or fruit plants such as vineyards or similar. This tool achieves high work efficiency and saves a lot of time and effort compared to traditional manual pruning with mechanical scissors. Its efficiency is established between 8 and 10 times higher than manual pruning. The quality of the cut and its speed is also significantly superior to traditional manual pruning.

## 2.3 Technical data

BASIC INFORMATION ABOUT PRUNING SHEARS	
working voltage	DC36V
Weight	1.0 Kg (connection cable not included)
Drums	Lithium Ion 36V 4.4Ah
charging voltage	AC 110V - 240V – DC 42.5V
Battery charging time	5-6 hours
Working time	8-10 a.m. (discontinuous work)

CUTTING RANGES	
Cutting diameter (adjustable)	30 - 45mm
working temperatures	-10°C -65°C



Read all safety instructions carefully. You may suffer electric shock, fire or burns if you do not follow the safety instructions.

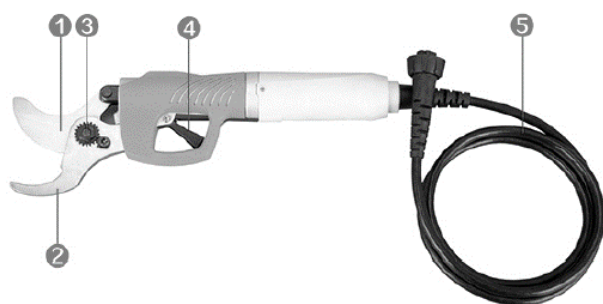


Do not use or directly expose the pruning shears to rain.



While working with the pruning shears, do not close or manipulate the cutting blades with your hands. Take special care to bring any part of your body close to sharp moving parts.

## 2.4



### Identification of parts

1. cutting blade
2. Cutting blade support
3. Gear
4. actuation trigger
5. Battery connection cable
6. Battery charger plug
7. Charge indicator (press to see)
8. Charger connection
9. Charger entry point.
10. battery switch
11. Battery current output
12. Scissor cable connection



When the the blade is battery

diameter is set to the smallest position, set to a smaller sprocket to increase speed and efficiency.

### 3. Use and maintenance

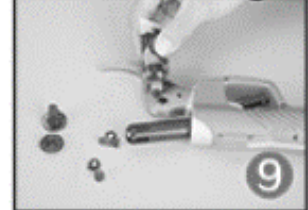
#### 3.1 Commissioning

1. Open the case and put the electric pruning shears and its battery in the corresponding storage bag, as shown in figure 1.
2. The electric trimmer has a hardwired power cable through the harness and connects to the battery. Use the harness (the cable of the power supply must be placed in the retention buckle to avoid cutting the cable when in use) as shown in figures 2, 3 and 4.
3. Take out the electric pruning shears, turn on the battery power switch, until you hear "di" for once; Check that the batteries supply power normally, as shown in figure 5.
4. Press the trigger continuously and quickly for two times, open the blade automatically, as shown in figure 6 and 7.
5. Before working, please press the trigger to operate the blade several times and listen if there is any noise of too fast or too slow phenomena.
6. After you verify that everything is running normally, start working.
7. Blade opening can be changed; press the trigger and release it after hearing "didi" twice; The blade opening will change automatically.
8. Power off: press the trigger and release it after hearing "dididi" three times; the blade will close automatically, as shown in figure 8.
9. Turn off the battery switch.


Grades:

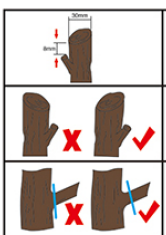
(1)- the machine may rise a little temperature during a long time use, although it is a normal process, please rest assured to continue using.

(two)- After completing the pruning work of each season, or when replacing the blade, you must remove the blade, add lubricating oil between the blade gear (as shown in figure 9).



#### 3.2 Tips for use

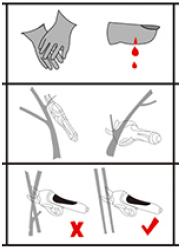
 Note:(1) The machine may overheat after continuous use, this is a normal phenomenon. Let the machine cool down for a while and you can use it again when the temperature drops.



(2) After pruning work is completed, at the end of the season, or when you replace the blade, and need to remove the blade, add lubricating oil for maintenance of the blade and cutting system.

While you are pruning, start pruning about 8mm from the shoot; the maximum cutting diameter is 25mm.

Prune away from the shoot to prevent sap loss from the plant.



Do not prune branches too far from the tree as this will reduce the health of the plant. Leave a small stretch of the branch to avoid stressing the plant.

While working with the scissors, keep your hands away from the cutting blades and wear suitable gloves and protective gear.

Remove diseased shoots and remove dry branches on the plant.

When pruning on a tree, prune each branch separately and do not cut multiple branches at once.

### 3.3 Battery charging

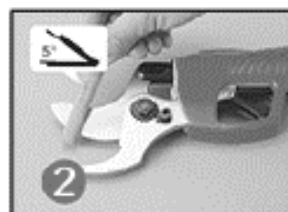
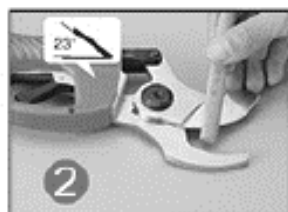
The battery of a new machine is not fully charged. Before charging, insert the battery into the charger and insert the plug of the charger into the wall outlet. The "+" of the battery must be inserted into the "+" of the charger, as shown in the picture on the right. The indicator light on the charger will show green once it is fully charged. Always use the battery after full charges.

### 3.4 Special attention

1. Before charging, please turn off the switch; During charging, it is normal to have a slightly warm charger and batteries.
2. If the batteries are not used for a long time, they should be recharged every 3 months to increase the service life;
3. New batteries or batteries not used for a long time will reach full capacity after 5 times of charge-discharge cycles;
4. Please do not charge the batteries repeatedly after several minutes of operation, this may reduce the working time and efficiency of the batteries.
5. Do not use damaged batteries or disassemble the charger or batteries.
6. Batteries can explode in fire. Never burn batteries.
7. Do not charge batteries outdoors or in humid environments.
8. With the gradual decrease of the electric quantity of the battery, it is normal to reduce the capacity of the cutting diameter.
9. During the charging process, do not use electric pruning shears.

### 3.5 Blade sharpening

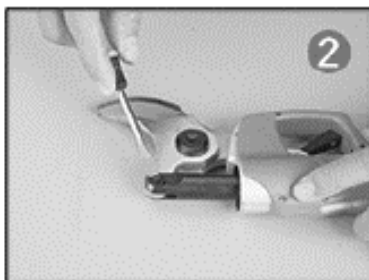
1. Turn off the scissors with the blade open and remove the battery.
2. Both sides of the movable blade are sharpened using sharpening stone by forming the section angle with the blade;
3. After sharpening the blade, clean it, connect and turn on the scissor, test that it moves correctly and close the blade for future work.



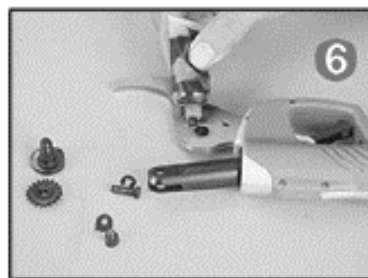
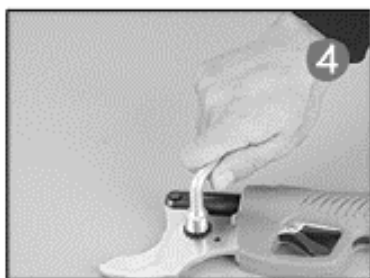


### 3.6 Blade replacement

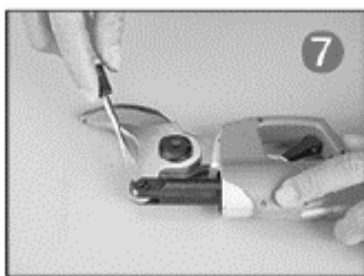
1. To ensure your safety, please remove the battery before handling the blade. 2. Step by step, as shown below, replace the blade. 3. After replacement, clean the blade, turn on the scissor and test to see if everything is correct.




1. Remove the screws with a screwdriver and open the cover. 2. Remove the screws from the blade nut retainer (this step is important) 3. Remove the blade nut



4. Remove the pin and remove the moving knife. 5. Remove bedknife. 6. When replacing the blades, lubricating oil should be added between the blades



7. Replace the blade. 8. Insert the nut. 9. Install the lock nut

 Support blade and moving blade can be replaced independently; As a replacement, don't worry about too small a blade opening; after recovering the power of the scissor, the normal opening size will recover automatically.

## **4. Maintenance**

### 4.1 Scissor maintenance

1. Do not cut branches outside the cutting range; do not cut non-vegetable materials, such as metals and stones, etc. do not use clamps or the like to hold the scissors; Always replace the cutting blade if it is worn or damaged.

2. Keep the cutting equipment clean, clean the scissors, batteries and charger with a clean cloth (do not use corrosive detergents!) and a soft brush or dry cloth to clean the dust on the upper scissors.

3. Do not immerse the scissors, batteries and charger in water or other liquids;

4. Use the equipment correctly; Stop using it when there is damage to the scissor, batteries and/or chargers.



5. If the switch can't turn the scissor on or off, please don't use the scissor. It will be dangerous to control the scissor without the switch properly. Always replace and repair the switch in this case before using the scissors again.
6. Make sure the switch keeps the pruning shears off when you replace accessories or store the pruning shears. Such preventive measure will reduce the risk of accidentally activating the scissors and causing injury to the user.
7. Turn off the pruning shears if you are not going to use it and store it out of the reach of children. It is dangerous to allow inexperienced people and untrained users to operate the pruning shears.
8. When using pruning shears, respect the tool and the specific use for which it was designed. Consider the work environment and the tasks to be performed; It can cause risk and damage by using improperly working pruning shears.
9. After using it, please remove the dirt on the moving blade and the supporting blade, add lubricating oil or engine oil on the contact part, make the blade keep in good sharpness to extend its service life and to future uses.

#### 4.2 Battery maintenance

1. Use the battery as the only valid power source for your electric pruning shears. Do not use the battery as a power source for any other power tool not listed.
2. Do not charge the battery in temperatures below 0°C or above 45°C; this can damage the battery and charger.
3. Make sure the battery switch is off before connecting the power cable; if it is open it can create a problem when connecting to the scissors.
4. Use only the charger assigned by the manufacturer to charge the battery; It may cause battery fire or explosion if you use chargers with inadequate power.
5. When the battery is not in use, be sure to keep it away from metal objects such as clips, coins, keys, screws, etc., which may shorten the battery charge or cause unintentional discharge or fire hazard.
6. Do not disassemble or reconstruct the battery.
7. Do not use damaged or short-circuited batteries.
8. Do not place the battery on hot surfaces or heat sources; or expose it to direct sunlight.
9. Do not put the battery near fire or in contact with water.
10. Do not charge the battery near fire or in direct sunlight.
11. Do not insert nails or other objects into the battery; do not hit it with hammers or trample on it, or throw the battery on the ground in haste.
12. Do not use damaged or deformed batteries.
13. Do not solder batteries directly.
14. Do not reverse charge batteries; do not use them anti-polarly or discharge them excessively.
15. Do not connect the battery to charging sockets or car cigarette lighter sockets.
16. Do not use the battery in equipment that is not suitable or approved.
17. Do not connect several batteries in network.
18. Do not connect the battery with other lithium batteries directly.
19. Do not put the battery in containers with high temperature or high pressure, such as microwave, etc.
20. Do not use batteries that are leaking fluid.
21. Do not allow children access to the battery.
22. Do not use or place the battery directly under the influence of the sun (or in cars under direct sunlight); it may cause overheating and cause a battery fire; or shorten its life cycle without more.
23. Do not use the battery in places with influence of static power (+64V)
24. When you use the battery for the first time, do not continue to use it and return it to your dealer if: there is any corrosion, unpleasant odor or other strange phenomenon occurs.
25. If there is any leakage of internal battery fluid onto your skin or clothing, wash it off immediately with plenty of water.
26. If the scissor is going to be stored for a long time, fully charge the battery before storing it.

## 5. Safety instructions

**ATTENTION:** Please read these instructions carefully to avoid damage such as electric shock, fire or other serious damage.

### **Location:**

1. Work in clean, uncluttered areas. Work in bright areas. Dark or cluttered workplaces can cause accidents.
2. Do not use the scissors in places with risk of fire, explosives or humid.
3. Avoid distractions at work and invite any children or bystanders to leave the work area to prevent them from entertaining you.

### **Electricity:**

1. The electric plug on the battery and the plug on the scissor should fit easily; do not connect any other plug instead.
2. Do not expose the scissors or the battery to rain or very humid environments. Water or other liquids may increase the risk of electric shock or damage to other electrical devices.
3. Do not force the connection cables; do not use power cords as ropes or points from which to drag or hold the tool directly. Do not pull on the cable to unplug the connections. Keep the scissors and their cables away from heat sources, oils, sharp edges or moving parts. Do not use the charger if the power cord or plug is damaged.

### **Staff:**

1. Stay alert: while using the scissors, be aware of the elements that may exist in your work area; do not use the scissors if you are tired, or under the influence of medication or drugs that affect your abilities. Any distraction can cause serious damage.
2. Use protection elements and always wear protective glasses, an anti-dust mask, anti-slip shoes and a safety helmet. Use each item under its proper conditions of use to reduce the risk of accidents.
3. Before connecting the pruning shears, remove any tools used for adjustment or maintenance. Avoid contact of the scissors with parts that could cause accidents.
4. While you are working, do not stretch your arms too far and work in a stable and comfortable position; do not handle the lit scissor directly with your hands. Make sure that the work area is free of other materials that could be damaged while pruning, such as power cables, wires, etc.; and keep a balanced position to ensure a good reaction in case of an accident or fall.
5. Dress appropriately for the work to be performed: do not wear very loose clothing or clothing that risks being caught in the scissors or in other trees for your discomfort or insecurity; keep hair, clothing, and sleeves away from the scissor cutting area.

### **General:**

1. When you don't have any branches to be cut by the scissors, release the trigger and keep the scissors in their open position.
2. When branches are too tough, release the trigger and the blade will return to the open position to remove and attempt cutting in another area.
3. If the battery does not charge normally, first check if the charger is suitable for the battery, and then check if the charging voltage is suitable for the battery.
4. If there is any electrical or mechanical damage, turn off the battery immediately.
5. If the battery is leaking; do not touch the liquid under any circumstances; if you contact the liquid, wash immediately with plenty of water; if the liquid gets into your eyes, see a doctor immediately and flush with plenty of water.

## 6. Recycling and environment



If your machine needs to be replaced after prolonged use, do not put it in the household waste, but dispose of it in an environmentally safe manner and in accordance with the legal provisions in this regard in your locality.

## 7. Warranty

This product is guaranteed in accordance with legal regulations for a period of 24 months from the date of purchase by the first user.

This warranty covers all material or production faults, does not include defects in normal wear parts, such as bearings, brushes, cables, plugs or other accessories such as drills, bits, saw blades, etc., damage or defects resulting from abuse, accidents or alterations to the product; nor the costs of transport to technical service in your case.

We reserve the right to reject any claim where the purchase cannot be verified or where it is clear that the product was not properly maintained. (Clean ventilation slots, regularly maintained carbon brushes, sharpening of cutting blades, state of cleanliness and lubrication, etc.)

Your purchase invoice must be kept as proof of the date of purchase and application of the corresponding guarantee.

Your tool must be returned undisassembled to your dealer in an acceptable and clean condition, in its original molded case, if applicable to the unit, accompanied by your proof of purchase for any type of claim or incident.

## 8. CE certificate

### DISTRIBUTION COMPANY

MILLASUR, SL  
RUA EDUARDO PONDAL, Nº 23 PISIGÜEIRO  
15688 OROSO - A CORUÑA  
SPAIN



**milasur**

## EC DECLARATION OF CONFORMITY

In compliance with the different CE directives, it is hereby confirmed that, due to its design and construction, and according to the CE mark printed by the manufacturer on it, the machine identified in this document complies with the relevant and fundamental health and safety requirements. of the aforementioned EC directives. This declaration validates the product to display the CE symbol.

In the event that the machine is modified and this modification is not approved by the manufacturer and communicated to the distributor, this declaration will lose its value and validity.

Machine name: BATTERY PRUNING SCISSORS

Model: **TPB4600**

Recognized and approved standard to which it conforms:

**Directive 2006/42/EC / Directive 2014/30/EU / Directive 2014/35/EU**

Company seal

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