Battery pruning scissors TPB2502

Instructions and user manual

anova









anova

Anova wishes to congratulate you for having chosen one of our products and guarantees you the assistance and cooperation that has always distinguished our brand over time.

This machine is designed to last many years and to be very useful if it is used according to 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 questions, you can contact us through our web supports such as www.anova.es

INFORMATION ABOUT THIS MANUAL

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

- This manual contains instructions for use and maintenance.
- Take this manual with you when you go to work on the machine.
- The contents are correct at the time of printing.
- They reserve the rights to make alterations at any time 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 use 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 serious personal injury.

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1. SECURITY INSTRUCTIONS

1.1. General safety instructions











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

A Important

As we regularly improve our products, you may find slight differences between your machine and the descriptions in this manual. Modifications can be made to the machine without prior notice and without the obligation to update the manual, although the essential safety and operational characteristics will remain unchanged. Also, due to technical product updates, this document is subject to change without notice.

Note: Please read the instructions carefully to avoid damage such as electric shock, fire or other serious damage.

1.2. Safety indicators

1.2.1. Location

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

1.2.2. Electricity

- 1. The electric plug of the battery and the one of the scissors should be easily attached; do not connect any other socket instead.
- 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 appliances.

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 scissor and its cables away from sources of heat, oil, sharp edges or moving parts. Do not use the charger if the power cord or plug is damaged.

1.2.3. 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 other substances that affect your abilities. Any distraction can cause serious damage.
- 2. Use protective elements such as safety glasses, dust mask, non-slip safety shoes, and 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 overstretch your arms and work in a stable and comfortable position; Do not handle the burning scissor directly with your hands. Make sure the work area is free of other materials that could be damaged while pruning such as power cords, wires, etc. and maintain a balanced position to ensure a good reaction in the event of an accident or fall.
- 5. Dress appropriately for the job to be performed: do not wear loose clothing or clothes that risk being caught in the scissors or other trees for your discomfort or insecurity; keep hair, clothing and sleeves away from the cutting area of the scissors.

1.2.4. General

- 1. When you do not have any branches to be cut by the shear, release the trigger and hold the shear in its open position.
- 2. When the branches are very tough, release the trigger and the blade will return to the open position to withdraw and try cutting in another area.
- 3. If the battery does not charge normally, please check whether the charger is suitable for the battery first, and then check whether the charging voltage is suitable with that of 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 come into contact with the liquid, wash immediately with plenty of water; If the liquid gets into your eyes, see a doctor immediately and rinse with plenty of water.

2. TECHNICAL SPECIFICATIONS

	TPB2502
Working voltage	16.8V (DC)
Battery	Ion-Lithium 16.8V - 2Ah
Charging voltage	AC 110V~ 240V
Loading time	1-1.5h
Working time	3-4h (discontinuous work)
Cutting diameter	25mm
Working temperatures	-10°C ~ 65°C
Weight (Connection cable not included)	0.9kg



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.

3. PRODUCT DESCRIPTION

3.1. Identification of machine components



- 1. Cutting blade
- 2. Counter-blade
- 3. Gear
- 4. Activation trigger
- 5. Lithium battery
- 6. Battery charger
- 7. On/Off switch

4. UNPACKING AND ASSEMBLY

4.1. Items in the box

The tool includes the following components in the supplied carrying case:

- 1. Pruning shears
- 2. Lithium batteries
- 3. Charger
- 4. Tool and lubrication kit



4.2. Expected use

The pruning shears is a tool that is made up of a fixed blade, a mobile cutting blade, a lithium battery, charger, tool kit and transport case. The charging voltage ranges from 110V-240V AC.

The main application of this scissors is for the pruning of branches in fruit trees, treatment and maintenance of orchard or fruit plants such as vineyards or similar.

This tool achieves great work efficiency and saves a lot of time and effort compared to traditional manual pruning with mechanical shears. Its efficiency is established between 8 and 10 times higher than manual pruning. The quality of the cut and its speed is also notably superior to traditional manual pruning.

5. INSTRUCTIONS FOR USE

5.1. Start up

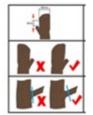
- 1. Remove the machine from the packaging. Install the lithium battery, press and hold the power switch for three seconds, and then release it. You should hear the sound of two beeps; this means that the battery is charged.
- 2. Press the trigger continuously and quickly twice to open the blade automatically.
- 3. Before starting work, press the trigger to actuate the blade several times and listen for unusual noises or working speed that is too fast or too slow. If everything is normal, you can start working.
- 4. Off: Press the trigger and release after you hear a beep twice. The blade will close automatically.

5.2. Use tips

The machine may overheat after a long period of use, this is normal. Let the machine cool down for a while, and you can use it again when the temperature drops.

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

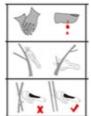
While pruning, start pruning about 8mm from the shoot; the maximum cutting diameter is 25mm.



Prune at the furthest part of the shoot to prevent sap loss from the plant.

Do not prune branches too far down the tree, as this will reduce the health of the plant. Leave a small section of the branch to avoid stress to the plant.

While you are working with the scissors, keep your hands away from the cutting blades and wear gloves or other suitable protection items.



Remove diseased shoots and remove dead branches on the plant.

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

5.3. Battery charge

The battery of a new machine does not come fully charged. Before charging, insert the battery into the charger and insert the charger plug into the power outlet. The "+" of the battery should be inserted into the "+" of the charger, as shown in the picture. The charger indicator light will show green once fully charged. Always use the battery after full charges.



A Attention

- Before charging, please turn off the switch; While charging, it is normal for the charger and battery to rise slightly in temperature.
- If the batteries are not used for a long time, they should be recharged every 3 months to increase the service life.
- New or unused batteries for a long time will reach full capacity after 5 charge-discharge cycles.
- Do not charge the batteries repeatedly after several minutes of operation as this may reduce the working time and efficiency of the batteries.
- Do not use damaged batteries or disassemble the charger or batteries.
- Do not expose batteries to fire or high temperatures. Explosion risk.
- Do not charge batteries outdoors or in humid environments.
- With the gradual decrease of the electric quantity of the battery, it is normal to reduce the capacity of the cutting diameter.
- During the charging process, do not use electric pruning shears.

5.4. Blade tension adjustment

▲ Attention: Disconnect the battery from the scissors before adjustment.

Keep the blades open and check for lateral oscillation. Lateral oscillation is an abnormal state, because it creates a gap between the two blades, which makes the gear teeth unable to bite properly, which will damage the mechanical structure, and the blade must be locked. (Not too tight)

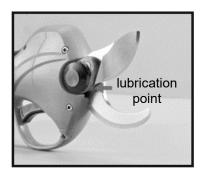
6. MAINTENANCE

6.1. Blade lubrication

Attention: Disconnect the battery of the scissors before operation.

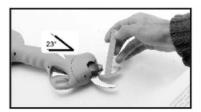
Re-add lubricant before using the blades or for more than 4 hours:

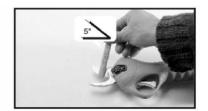
- Keep the blades open and add 1-2 drops of lubricant to the connection between the moving and fixed blades (as shown in the picture).
- Cut the scissors several times to evenly distribute the lubricant.



6.2. Blade sharpening

- Turn off the scissor with the blade open and remove the battery.
- Both sides of the movable blade are sharpened using a sharpening stone at the angle of section with the blade.
- After sharpening the blade, clean it, connect and turn on the scissor, test that it moves correctly and close the blade for future work.





6.3. Blade replacement

To ensure your safety, remove the battery before handling the blade.

- Step by step as below, replace the blade.
- After replacement, clean the blade, turn on the shear and test to see if everything is OK.



1. Remove the screws with a screwdriver and open the cover.



Remove the screws from the blade nut retainer (this step is important)



3. Remove the nut from the blade.



4. Disassemble the pin and remove the movable blade



5. Remove the stationary knife.



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.

A Warning

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

6.4. Scissor maintenance

- 1. Do not cut branches outside of 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 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. Replace and repair the switch in this case always before using the scissor again.
- 6. Make sure the switch keeps the shear off when replacing accessories or storing the pruning shears. Such a preventative measure will reduce the risk of accidentally activating the scissor and causing injury to the user.
- 7. Turn off the pruning shears if you are not going to use them and store them out of the reach of children. It is dangerous to allow inexperienced persons and untrained users to use the pruning shears.
- 8. When using pruning shears, respect the tool and its specific use for which it was designed. Consider the work environment and the tasks to be performed; You can cause hazards and damage by using improperly functioning pruning shears.
- 9. After using, please remove the dirt on the movable blade and the supporting blade, add lubricating oil on the contact part, keep the blade in good sharpness to extend its lifespan and future use.

6.5. 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 tools 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 turned off before connecting the power cord; if it were open, it could create a problem when connecting to the scissor.
- 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 improper power.
- 5. When the battery is not in use, be sure to keep it away from metal objects such as paper clips, coins, keys, screws, etc. that can shorten the battery charge or cause unintentional discharge or fire hazard.
- 6. Do not disassemble or rebuild the battery.
- 7. Do not use damaged or short-circuited batteries.
- 8. Do not place the battery on hot surfaces or heat sources; Do not expose it directly to the sun.
- 9. Do not put the battery near fire or in contact with water.

- 10. Do not charge the battery near fire or under direct sunlight.
- 11. Do not drive nails or other objects into the battery; do not hit it with hammers or trample on it, and do not throw the machine on the ground hastily.
- 12. Do not use damaged or deformed batteries.
- 13. Do not solder batteries directly.
- 14. Do not reverse charge batteries; Please do not use them in an anti-polar way 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 unsuitable or approved equipment.
- 17. Do not connect several batteries in a network.
- 18. Do not connect the battery with other lithium batteries directly.
- 19. Do not put the battery in containers with high temperatures or high pressure, such as microwaves, etc.
- 20. Do not use batteries that are leaking.
- 21. Do not allow children access to the battery.
- 22. Do not use or place the battery directly in the sun (or in cars under direct sunlight); it can cause overheating and cause a fire in the battery; or shorten its life cycle without further ado.
- 23. Do not use the battery in places with influence of static energy (+64V)
- 24. When using the battery for the first time, stop using it and return it to your sales center if: there is any kind of corrosion, unpleasant odors or other strange phenomena.
- 25. If there has been any leakage on the skin or clothing of the internal battery fluid, wash it immediately with plenty of water.
- 26. If the scissors are to be stored for a long time, fully charge the battery before storing.

7. WARRANTY

If your product suffers from a manufacturing defect during the established warranty period, contact or go to your point of sale directly with the necessary documentation.

Your purchase invoice must be kept as proof of the purchase date. Your tool must be returned to your dealer in an acceptable and clean condition, in its original molded case, if applicable to the unit, accompanied by your appropriate proof of purchase.

7.1. Warranty period

The legal warranty period for the product begins on the original date of purchase by the first initial buyer and its duration will be that established by the Royal Decree-Law for the protection of consumers and users in situations of social and economic vulnerability for the year. corresponding to the time of purchase of the product.

Some countries do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of consequential or incidental damages, in which case the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or country to country.

7.2. Exclusions

This warranty does not cover product damage or performance problems caused by:

- Natural wear and tear from use.
- Misuse, neglect, careless operation or lack of maintenance.
- Defects caused by incorrect use, damage caused by manipulations carried out by personnel not authorized by Anova or use of non-original spare parts.
- Defects of normal wear parts, such as bearings, brushes, cables, plugs or accessories such as drills, bits, saw blades, etc.
- Damage or defects resulting from abuse, accidents or alterations.
- Incorrect use and storage (explicit reference that the rules described in the operating instructions have not been followed).
- Customer wear (for example, broken saw blades, worn carbon brushes, etc.).
- Secondary wear and damage due to lack of maintenance, repair, lubricants (for example, damage from overheating due to blocked cooling slots, bearing damage as a result of dirt, frost damage, etc.)
- Damage as an obvious result of overuse/overloading.
- Damage caused by inappropriate supplies (eg wrong fuel)
- Load-induced failure of housing components or accessories due to abnormal stress
- Load-induced deformation of housing components or accessories due to abnormal stress.
- Damage resulting from the operation of supplies that are overfilled or leaking due to improper storage, in proper cleaning agents or other damaging chemicals.
- Damage due to improper exposure to extreme temperatures (for example, freeze fractures, thermal distortion of components, etc.)
- Damage from permanent exposure to ultraviolet radiation.
- Damage caused by improper maintenance.
- Any damage caused by non-compliance with the instruction manual
- Any product that has been attempted to be repaired by an unqualified professional.
- Any product connected to an inadequate power source (amps, voltage, frequency).
- Any damage caused by external influences (water, chemicals, physics, shock) or foreign substances.
- Use of inappropriate accessories or parts.
- It does not include defects of normal wear parts, nor does it cover damages or defects resulting from abuse, accidents or alterations, nor transportation costs.

Also, the warranty is void if the product has been altered or modified, or if the trademark/serial number on the machine has been defaced or removed.

Routine maintenance, tune-ups, adjustments or normal wear and tear are not covered under this warranty.

This manual does not cover all possible situations regarding warranty exclusions, for more information contact your nearest Anova dealer.

7.3. In case of incident

The guarantee must be correctly completed with all the information requested, and accompanied by the purchase invoice.

Anova reserves the right to deny any claim where purchase cannot be verified or where it is clear that the product was not maintained properly (maintenance, vents cleaned, lubrication, carbon brushes regularly maintained, cleaning, storage, etc.).

Private use is understood as personal domestic use by a final consumer. Instead, commercial use means all other uses, including uses for commercial, income-generating, or rental purposes. Once the product has been used for commercial use, it will hereafter be considered a commercial use product for the purposes of this warranty.

These are our standard warranty terms, but occasionally there may be additional warranty coverage not determined at the time of publication. For more information, contact your nearest official Anova distributor or by visiting www.millasur.com.

Warranty service is only available through official Anova dealers. You can locate your nearest distributor on our distributor map at www.anova.es.

8. ENVIRONMENT



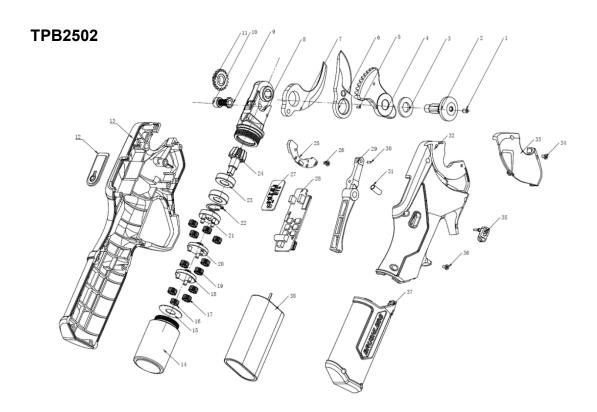
Protect the environment. Recycle the oil used by the machines, taking it to a recycling center. Do not pour used oil into drains, land, rivers, lakes or seas.



Dispose of your machine in an ecological way. The machines must not be disposed of together with household waste. Its plastic and metal components can be classified according to their nature and can be recycled.

The materials used to pack this machine are recyclable. Please do not dispose of the packaging in the household waste. Dispose of these packages at an official waste collection point.

9. EXPLODED



10. CE CERTIFICATE

DISTRIBUTION COMPANY

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



EC DECLARATION OF CONFORMITY

In compliance with the different CE directives, this document confirms that, due to its design and construction, and according to the CE mark printed on it by the manufacturer, the machine identified in this document complies with the pertinent 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: PRUNING SCISSORS

Model: **TPB2502**

Recognized and approved standard to which it conforms:

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

Tested according to regulations:

EN 60745-1:2009/A11:2010 EN 55014-1:2017/A / EN 55014-2:2015 EN IEC 61000-3-2:2019 / EN 61000-3-3:2013

Company seal

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