

Battery pruning scissors

TPB2202

ANOVA

Instructions and user manual



EN

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Anova wishes to congratulate 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.anova.es

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 serious personal injury.

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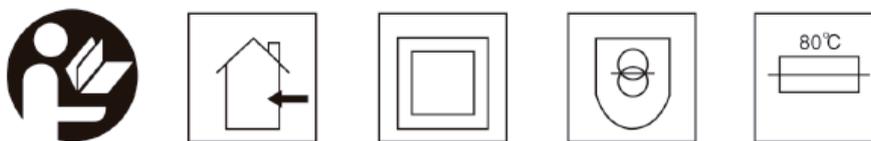
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1. SECURITY INSTRUCTIONS

1.1. General safety instructions



1. Read the instructions in their entirety.
2. Battery charging must only be carried out in protected indoor 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.

▲ Important

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

1.2. Security indicators

1.2.1. Location

1. Work in clean, uncluttered areas. Work in bright areas. Dark or cluttered workplaces can lead to 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.

1.2.2. 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.

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 protection elements such as protective 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 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 loose clothing or clothing that is at risk of 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.

1.2.4. 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.

2. TECHNICAL SPECIFICATIONS

TPB2202	
Working voltage	7.2V (DC)
Drums	7.2V - 4.2Ah
Charging voltage	AC110V~240V
Battery charging input	Type-C charger
Loading time	2-3h
Working time	4-6h
Cutting diameter	22mm
Working temperatures	-10°C ~ 65°C
Weight	0,89kg



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. Bedknife
- 3. Gear
- 4. Activation trigger

- 5. On/off switch
- 6. Type-C charging port
- 7. Lithium battery

4. UNPACKING AND ASSEMBLY

4.1. Items in the box

The tool includes the following components in the supplied packaging:

1. Pruning shears
2. Built-in lithium battery
3. Charger cable (Type C)
4. Tool kit and lubrication



4.2. Expected use

The pruning shears is a battery-powered tool and consists of a fixed blade, a movable cutting blade, a built-in lithium battery, a charger, a tool kit and a carrying 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 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.

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 the battery is charged.
2. Press the trigger continuously and quickly twice to open the blade automatically.
3. Before starting the work, press the trigger to operate the blade several times and listen for unusual noises or if the working speed is too fast or too slow. If everything is normal, you can start working.
4. Power off: press the trigger and release it after hearing a beep twice. The blade will close automatically.

5.2. Use tips

After a long time of use, the battery of the machine may rise in temperature, this is normal.

Add lubricating oil on the blade for proper maintenance. It is very important that you keep your scissor in good clean and cared for condition.



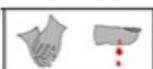
While you are pruning, start pruning about 8mm from the shoot; the maximum cutting diameter is 22mm.



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



Remove diseased shoots and remove dry branches on the plant.

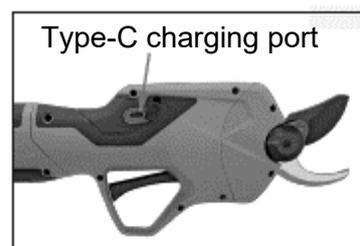


When pruning on a tree, prune each branch separately and do not cut multiple branches at once.

5.3. Battery charge

The battery of the new product does not come fully charged. Before charging, please insert the charging cable into the charging port of the scissors and insert the other end into the charger. The battery light will show full when fully charged.

(Note: This product uses a Type-C interface for charging, which is common with the mobile phone charging cable.)



⚠️ **Caveat**

- Before charging, please turn off the switch; While charging, it is normal for the 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 long-unused batteries 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 effectiveness of the batteries.
- Do not use damaged batteries or do not disassemble the charger or batteries.
- Do not expose batteries to fire or high temperatures. Risk of explosion.
- Do not charge batteries outdoors or in humid environments.

5.4. Blade tension adjustment

⚠ Attention: Please turn off the power of scissors before adjustment.

Keep the blades open and check for lateral oscillations. Side swing is an abnormal state, as 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)

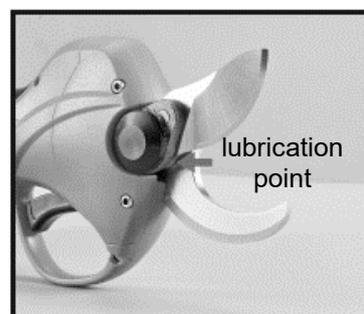
6. MAINTENANCE

6.1. Blade lubrication

⚠ Attention: Please turn off the power of the scissors before the operation.

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

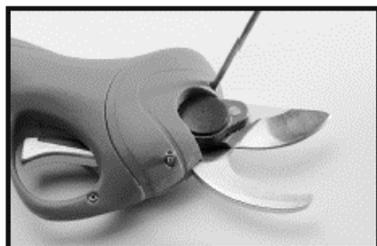
- Keep the blades open and add 1-2 drops of lubricant to the connection between the moving and fixed blades (as shown in the picture).
- Cut the scissors several times to evenly distribute the lubricant.



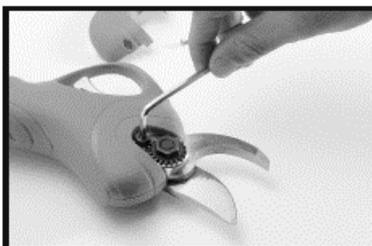
6.2. Blade replacement

The power supply of the scissors must be disconnected before operation.

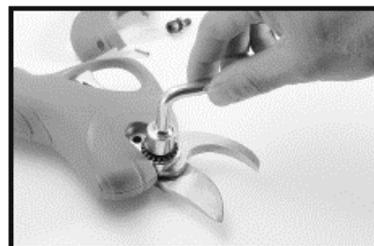
- Step by step as shown below. Replace blade.
- After replacement, clean it, turn on the test, close the blade, and complete.



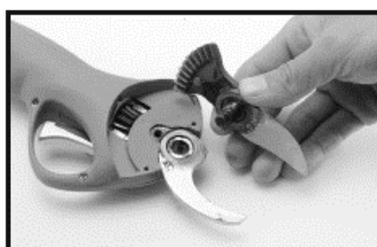
1. Remove the screws with a screwdriver and open the cover.



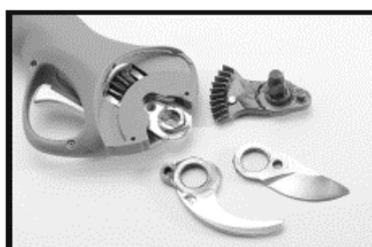
2. Remove the screws from the blade nut retainer (this step is important)



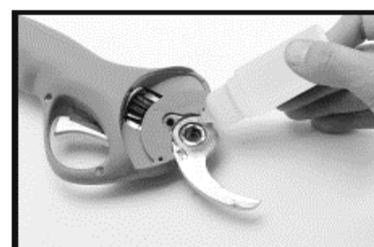
3. Remove the blade nut.



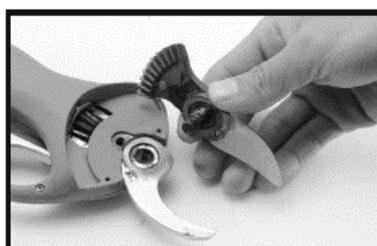
4. Remove the pin and remove the moving knife.



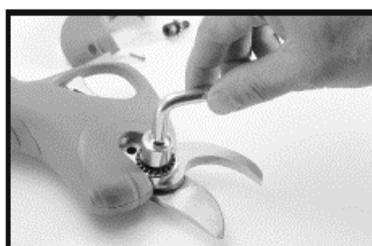
5. Remove stationary knife.



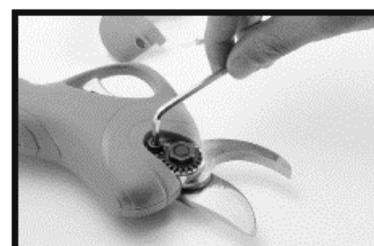
6. When replacing the blades, lubricating oil should be added between the blades.



7. Replace the blade



8. Insert the nut.



9. Install the lock nut.

▲ **Caveat**

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.

6.3. 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 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 cannot turn the scissor on or off, do not 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 them and store them 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 use, please remove the dirt on the moving blade and the supporting blade, add lubricating oil to the contact part, keep the blade in good sharpness for long life and future use.

6.4. Battery maintenance

1. Do not charge the battery in temperatures below 0°C or above 45°C; this can damage the battery and charger.
2. 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.
3. 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.
4. 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.
5. Do not disassemble or reconstruct the battery.
6. Do not use damaged or short-circuited batteries.
7. Do not place the battery on hot surfaces or heat sources; or expose it to direct sunlight.
8. Do not put the battery near fire or in contact with water.
9. Do not charge the battery near fire or in direct sunlight.
10. Do not insert nails or other objects into the battery; do not hit it with hammers or trample on it, or throw the machine to the ground in haste.
11. Do not use damaged or deformed batteries.
12. Do not solder batteries directly.
13. Do not reverse charge batteries; do not use them anti-polarly or discharge them excessively.
14. Do not connect the battery to charging sockets or car cigarette lighter sockets.
15. Do not use the battery in equipment that is not suitable or approved.
16. Do not connect the battery with other lithium batteries directly.
17. Do not put the battery in containers with high temperature or high pressure, such as microwave, etc.
18. Do not use batteries that are leaking fluid.
19. Do not allow children access to the battery.
20. Do not use or place the battery in direct sunlight (or in cars in direct sunlight); it may cause overheating and cause a battery fire; or shorten its life cycle without more.
21. Do not use the battery in places with influence of static power (+64V)
22. 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.

23. If there is any leakage of internal battery fluid onto your skin or clothing, wash it off immediately with plenty of water.
24. If the scissor is going to be stored for a long time, fully charge the battery before storing it.

7. WARRANTY

Millasur guarantees that if your product suffers from a manufacturing defect during the established guarantee period, contact or go to your point of sale.

Your purchase invoice should be kept as proof of the purchase date. Your tool must be returned to your dealer in an acceptable 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 guarantee period of 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 of protection of consumers and users against situations of social and economic vulnerability of the year corresponding to the moment 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.
- Misuse, negligence, careless operation or lack of maintenance.
- Defects caused by incorrect use, damage caused due to 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.
- Improper use and storage (explicit reference that the rules described in the operating instructions have not been followed).
- Customer caused wear (for example, broken saw blades, worn carbon brushes, etc.).
- Wear and secondary damage due to lack of maintenance, repair, lubricants (e.g. overheating damage due to blocked cooling slots, bearing damage as a result of dirt, frost damage, etc.)
- Damage as an obvious result of excessive use / overload.
- Damage caused by improper supplies (eg incorrect 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 leak due to improper storage, inappropriate cleaning agents, or other damaging chemical components.
- Damage due to improper exposure to extreme temperatures (for example, freeze fractures, thermal deformation 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 attempted to be repaired by an unqualified professional.
- Any product connected to an improper power source (amps, voltage, frequency).
- Any damage caused by external influences (water, chemical, physical, shock) or foreign substances.
- Use of inappropriate accessories or parts.
- It does not include defects in normal wear parts, nor does it cover damages or defects resulting from abuse, accidents or alterations, nor does it cover 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.

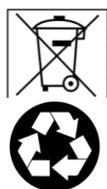
Anova reserves the right to reject any claim where the purchase cannot be verified or where it is clear that the product was not properly maintained (maintenance, clean ventilation slots, lubrication, regularly maintained carbon brushes, cleaning, storage, etc.) .

Private use means personal domestic use by an end 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 be considered a commercial use product for the purposes of this guarantee.

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 Anova official distributor or by going to 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



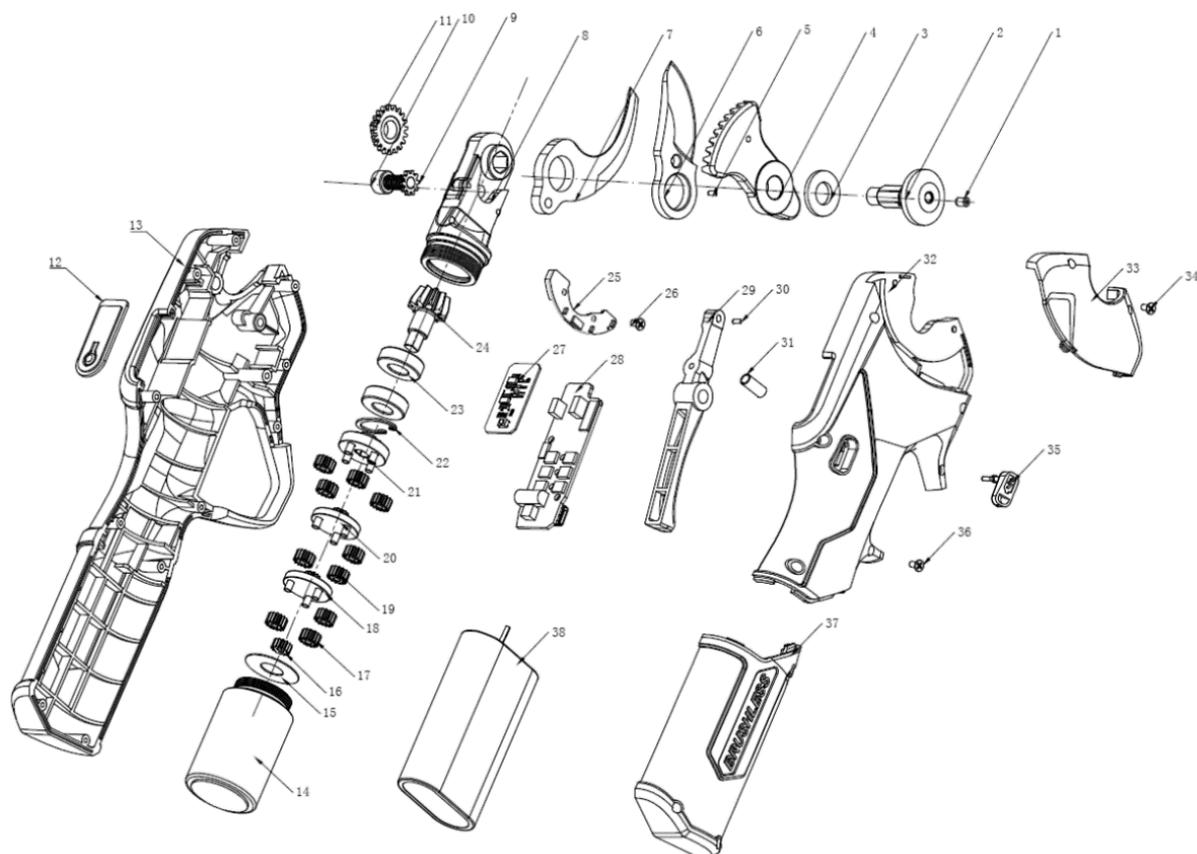
Protect the environment. Recycle the oil used by this machine by taking it to a recycling center. Do not pour used oil into drains, land, rivers, lakes or seas.

Please dispose of your machine in an ecological way. We must not dispose of machines together with household waste. Its plastic and metal components can be sorted according to their nature and recycled.

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

9. EXPLODED VIEW

TPB2202



10. CE CERTIFICATE

DISTRIBUTION COMPANY

MILLASUR, SL
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15688 OROSO - A CORUÑA
SPAIN



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: **TPB2202**

Recognized and approved standard to which it conforms:

Directive 2006/42/EC
2014/30/EU

Tested according to regulations:

ISO 12100:2010,
EN 62841-1:2015+AC:2015,
EN55014-1:2017+A11:2020, EN55014-2:2015

Company seal

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09/19/2022