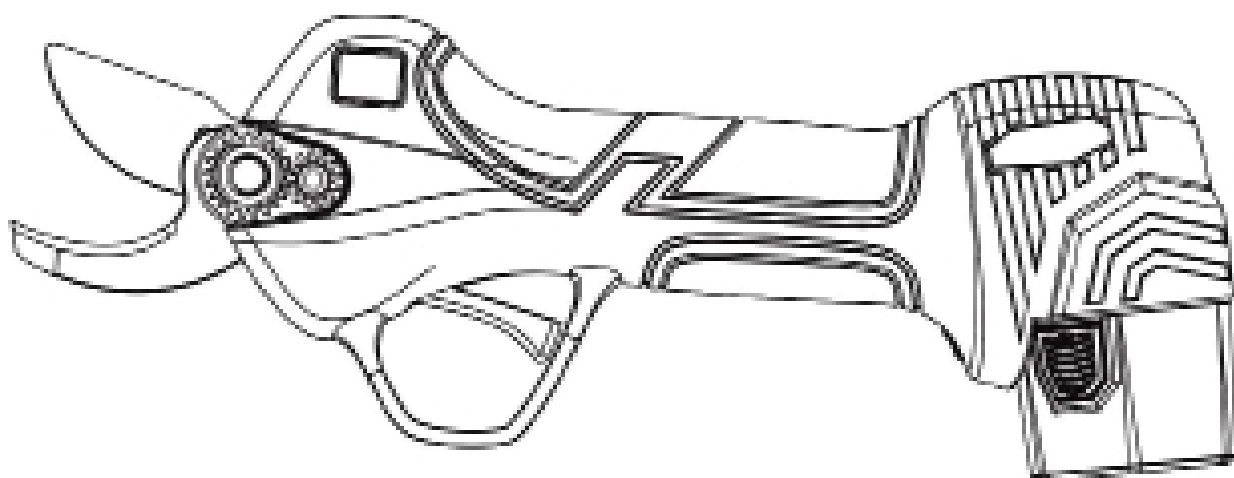




**BLUEBIRD
INDUSTRIES**

Pruning shears

PS 22-23 TWIN



Product user manual
-translation of the original instructions-

INDEX

Instructions..... 1



Performance descriptions.....2

- Technical parameters.....2
- Name and diagram of each component.....3
- Error messages..... 4



Battery use, maintenance and precautions.....6

- Universal charger - presentation of different charging plugs.....7
- Refueling steps..... 7
- Battery charging.....7
- Precautions..... 8



Use, maintenance and precautions of electric shears.....9

- Blade replacement.....11
- Use, maintenance and precautions of electric shears.....11



Safety precautions.....12

- Electrical safety instructions..... 13
- Personal safety instructions.....13



Exceptions and treatment methods..... 14



After-sales service..... 14

After-sales service..... 14



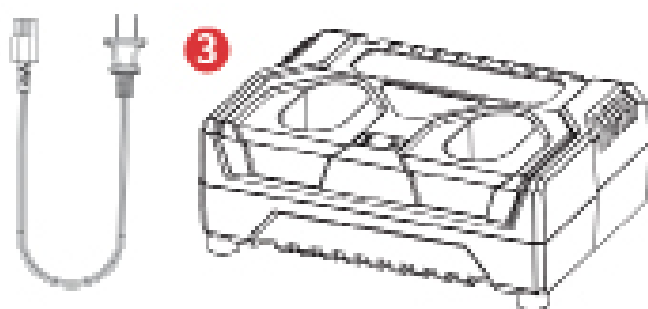
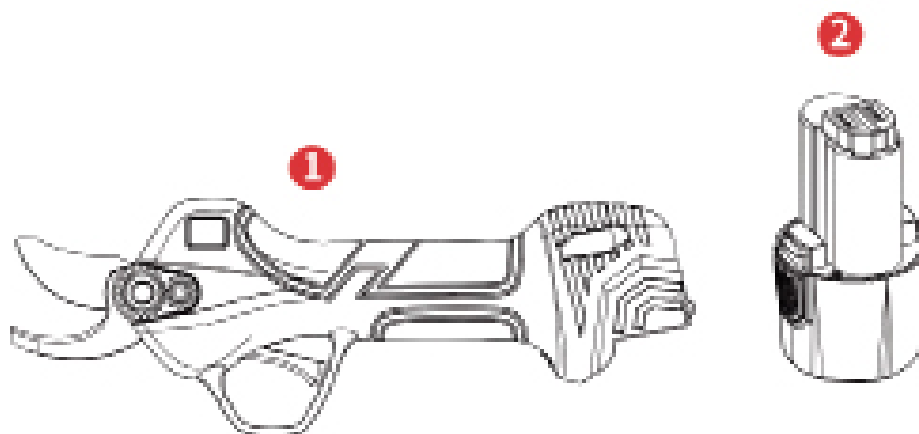
For better use of the product, we recommend reading this manual in its entirety and keeping it for future reference. In case of irregular operation, please contact us immediately. Our technicians are at your disposal and will answer all your questions as soon as possible. We wish you good use of the electric pruning shears



Parts list

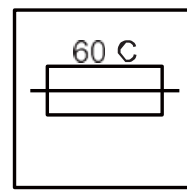
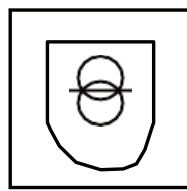
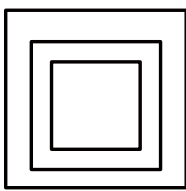
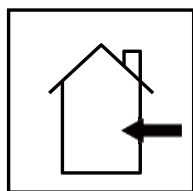
Included in the package

1. Electric pruning shears
2. Lithium battery
3. Charger
4. Tool kit





Product overview



Note

1. Read the manual carefully in all its parts.
2. Please charge the battery indoors.
3. Double insulation does not require grounding.
4. Fail-safe control unit charger
5. The control unit charging automatically deactivates in case of overheating
6. Dispose of the charger separately from regular household waste.
7. Dispose of the battery separately from regular household waste.

Product description

The product is designed for cutting or pruning branches with a diameter equal to or less than 23 mm in orchards, vineyards, etc., operates on battery and includes a fixed blade, a movable blade, a lithium battery, a charger, a power cable, a work vest, tool box and other components. Simple and easy to use, they are 8-10 times more efficient than manual shears. The quality of pruning is significantly higher than manual pruning.

Technical specifications

Average voltage	7.2V
Lithium battery	2Ah
Charging voltage	AC110V-220V
Charging time	1-2.5 h
Operating time	2-3.5 h
Rated power	90W
Maximum power	280W
Diameter	Vine shoots of 23 mm
Operating temperature	14°F-149°F / -10°C-65°C



Please read all warnings and safety instructions carefully.

Failure to follow warnings and instructions may cause electrocution, fire, and/or serious injury.



Do not use or expose the electric pruner in the rain.



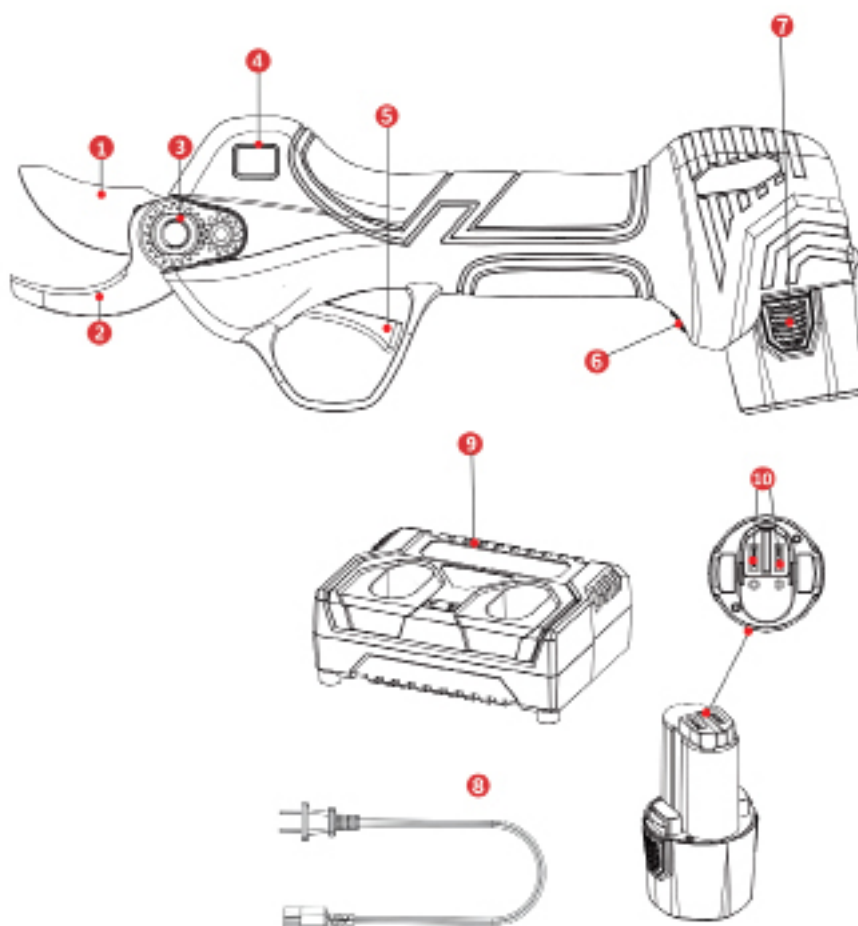
Always keep your hands away from the cutting area of the electric pruner during operation.



Do not touch live objects with the electric pruner.

● Name and diagram of components

1. Moving blade
2. Fixed blade
3. Pin
4. Display
5. Trigger
6. Power switch
7. Battery removal button
8. AC charger plug
9. Charger
10. Battery connectors



If there is any error, please follow the display code to resolve it.

When using the product, if the following code appears on the display, it can be repaired or handled according to the corresponding fault requirements.

Error type	Number of LED flashes	Number of beeps	Error on display	Other
No error	0	0	E00	
Anti-cut hand protection	1	1	E01	
Current sensor error	2	6	E02	
Damaged MOS tube	3	6	E03	
Blade board/blades damaged	4	3	E04	
Overvoltage peak protection	5	5	E05	
Blocked opening/Blocked rotor	6	3	E06	
Overload	7	4	E07	
Undervoltage/Overvoltage	8	1	E08	
MOS/Chip overheating	9	6	E09	
PWM error/Bit voltage error	10	2	E10	
Bit type error	10	7	E10	
EEPROM error	11	6	E11	
Phase detection error	12	4	E12	
Programming error	13	6	E13	
Number of cuts exceeds machine threshold	14	8	E14	
Number of cuts exceeds maintenance threshold	15	8	E15	
The battery is not compatible	16	9	E16	
The motherboard fails to communicate with the battery	17	10	E17	

E14: Defined, protection not performed

E15: Defined, for reminder only without protection, the display emits a beep five times per minute.



Product operation

Installation

1. Insert the battery into the machine's power connector.
2. Turn on using the appropriate switch. At first use, the LED indicator light is green and the alarm sounds once.
3. Press the trigger twice, the scissor blades will open automatically.
4. Pruning: press the trigger to close the blades and release the trigger to open the blades.
Blade closure: hold down the trigger, a sound indicates that the blades remain closed.
5. Before use, to check the proper functioning of the machine, press and release the trigger to close and open the blades, without cutting anything. Repeat the operation several times.



Storage

1. Press and hold the trigger for a few seconds, then release it: the blades will close and remain closed.
2. Turn off the battery and disconnect it.
3. Tidy up, clean, and store the machine in the box.

Quick troubleshooting

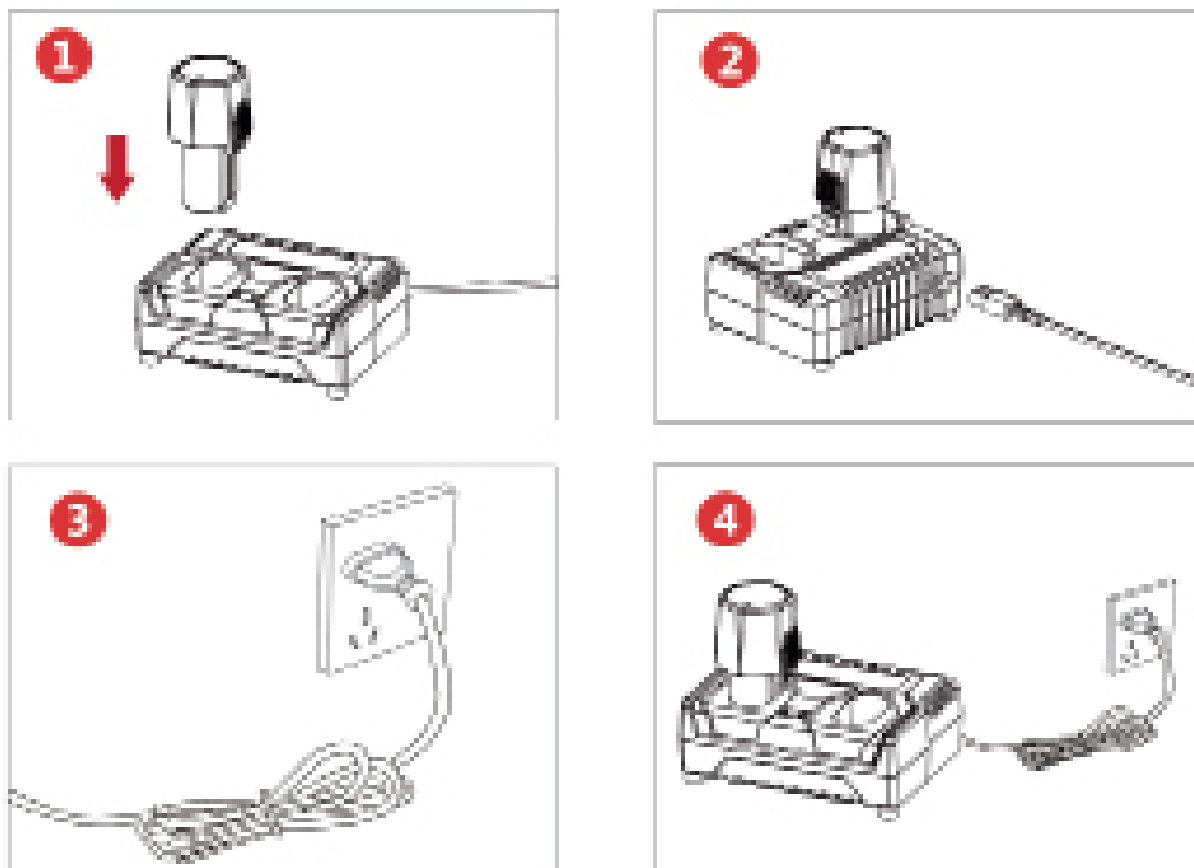
Number of beeps	Fault	Action
1	Reduced battery capacity	Check that the battery capacity is not low
2	Reduced connection	Check that the connector cable is not loose
3	Inefficient blade	Lubricate the blade (see p.14)
4	Lack of phase	Contact your local distributor for assistance
5	Motor line phase short-circuited	Check that the cable or connector head has not caused a short circuit
Continuous sound	Safety warning	Check for contact between the body and the blade

● Use, maintenance, and precautions

At the time of purchase, the battery is not fully charged. Place the battery on the table, insert the battery into the charger as shown in the figure. 1 and then connect the cable to the power outlet. When the light indicator turns on, charging has started.

When the charger indicator is red, it means the battery is charging; when it is green, the battery is charged and can be used.

Charging steps:



1. Place the charger on the table and insert the battery into the appropriate slot as in fig 1.
2. Insert the power cable into the appropriate socket of the charger and finally connect the cable to the wall socket.
3. The two slots of the charger charge separately. When the battery needs to be charged, insert it into the appropriate slot and if the corresponding LED is red it means the battery is charging, while if the LED light is green the battery is fully charged. (When only one battery is charging, the LED of the opposite slot will be green).



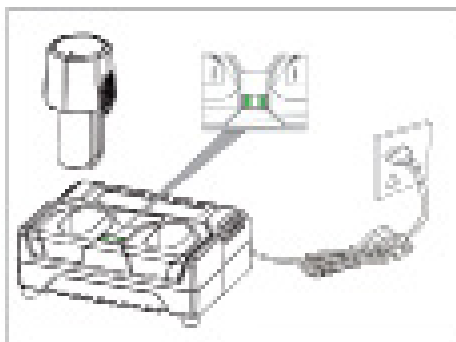
Note: each light indicator represents the charging status of different batteries



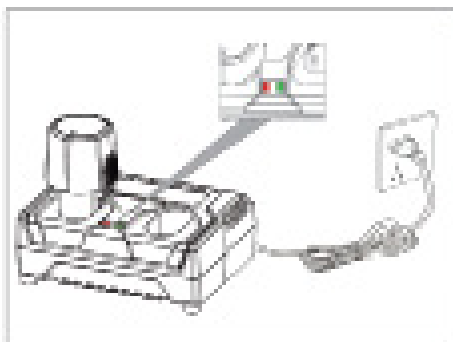
Each charging slot has its corresponding LED indicator (whether the charger is charging separately or charging two batteries at the same time, make sure to locate the correct LED to determine if the battery is fully charged or charging).

Note: The light indicator is green if the battery is charged or if it has not been inserted into the slot as shown in the figures below

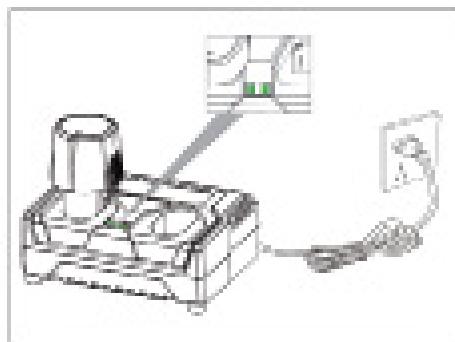
Charging with a single battery



1. Not charging

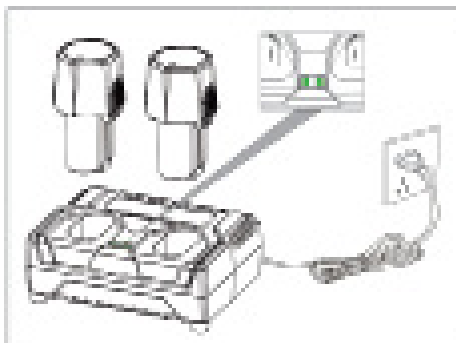


1. Charging

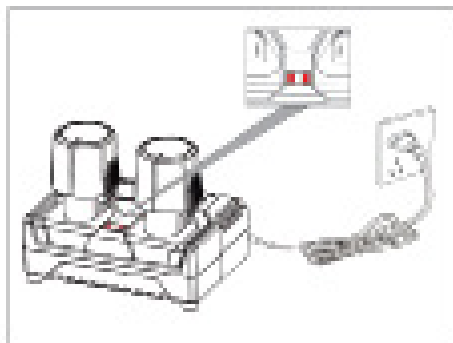


1. Full charge

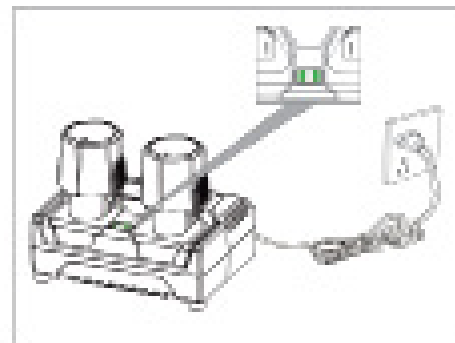
Charge with double battery



1. Not charging



1. Charging



1. Full charge

● Warnings

1. Before recharging, make sure that the battery switch is set to OFF. During the charging phase, it is normal for the charger and battery to be warm.
2. If the battery is not used for a long period of time, it is recommended to charge it every 3 months, so as not to compromise its lifespan due to lack of use.
3. A new battery or one not used for a long period requires about 5 charge-discharge cycles before reaching its maximum capacity.
4. Do not recharge a battery that is already fully charged after just a few minutes of use, to avoid reducing its lifespan and efficiency.
5. Do not use a damaged battery nor disassemble the charger or the battery.
6. Never place the battery near heat sources or in particularly hot environments, to prevent the battery from exploding and causing a fire
7. Do not charge the battery in outdoor or humid environments.
8. It is completely normal for the cutting diameter of the pruning shears to decrease as the battery charge decreases.
9. Do not use the device while charging. Disconnect from the battery
10. Do not store the battery in a humid environment.

● Battery use and maintenance

1. Do not charge below 0°C or above 45°C, as the battery and charger risk being damaged.
2. Make sure the battery is turned off before connecting the battery power cable.
3. Use only the charger supplied with the device: using a charger with different charging specifications may cause a fire.
4. Keep paper clips, coins, keys, nails, screws, or other conductive objects away from the battery when not in use.
5. Do not disassemble or reassemble the battery.
6. Do not short-circuit the battery.
7. Do not use near heat sources.
8. Do not put the battery in fire or water.
9. It is forbidden to charge the battery near fire or in direct sunlight.
10. It is forbidden to insert nails into the battery, hit or throw the battery by hammering or stepping on it.
11. Do not use damaged or deformed batteries.
12. Direct soldering on the battery is forbidden.
13. Reverse charging, reverse polarity connection, or excessive discharge of the battery is forbidden.
14. Do not connect the battery to the charging socket or the car cigarette lighter socket.
15. Do not use on unspecified equipment.
16. Direct contact with lithium batteries is forbidden.
17. It is forbidden to put the battery in high temperature and high pressure containers such as a microwave oven.

18. Do not use batteries that are leaking liquid.
19. Keep batteries out of reach of children.
20. Do not use or place the battery under direct sunlight (or in a vehicle under direct sunlight) to avoid overheating or possible burns that could shorten its lifespan.
21. Do not use the battery in an electrostatic environment (above 64V)
22. Do not use the battery in the presence of corrosion, unpleasant odor, or unusual appearance
23. If skin or clothing comes into direct contact with battery liquid, rinse immediately with clean water.
24. Keep the battery fully charged when the pruning shears are not used for a long period of time.



Product maintenance

Instructions before use

1. Check the battery level before use.
2. When the shears are not being used, make sure the battery is disconnected.
3. Especially when lubricating and/or replacing the blades.
4. Check the tightness of the blades before use



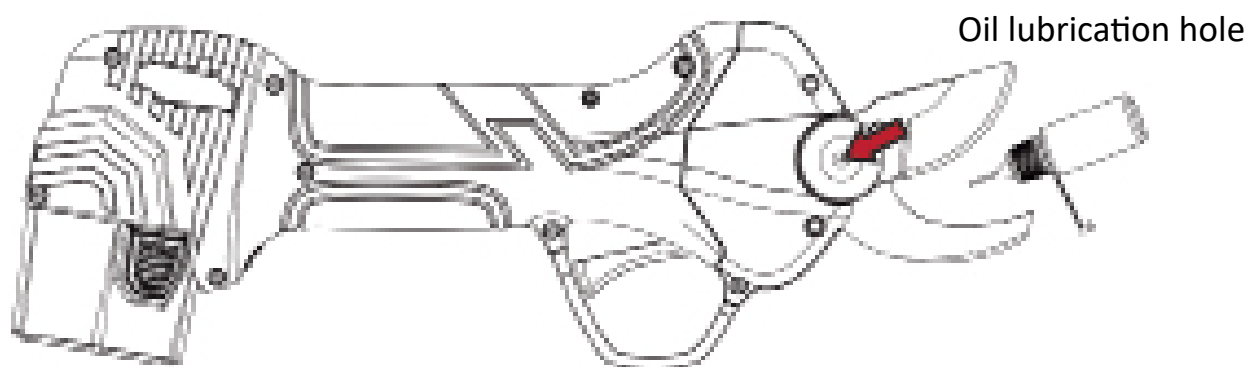
Blade lubrication

Disconnect the battery before performing the operation

Lubricate before using the shears or after they have been used for more than 4 hours.
For proper lubrication as mentioned above, the blades must be open.

Lubrication:

1. Insert the lubricating oil into the appropriate hole located on the back of the blades and make some empty cuts to distribute the oil evenly.



Blade tension adjustment

For safety reasons, disconnect the battery before performing the operation

Check the blade tension before use. A properly tightened blade should never wobble to the right or left. Proper blade tension makes the work less tiring.

Warning: When the blades are closed, they should not wobble sideways.

Lateral wobbling is an abnormal condition as it creates a gap between the blades, which causes a separation between the gears and damages the internal structure.

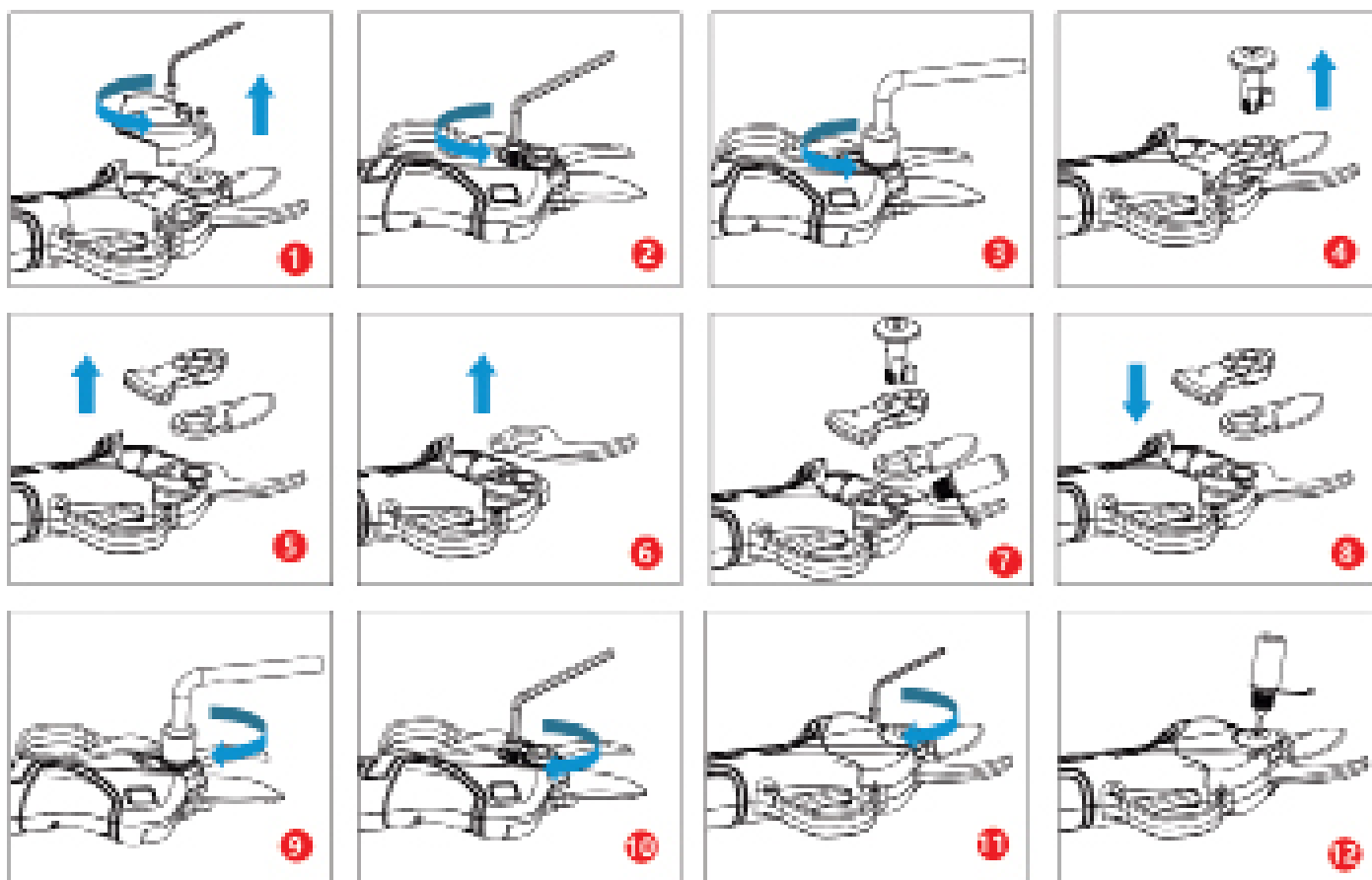


Blade replacement

For safety reasons, disconnect the battery before performing the operation

If the moving blade no longer cuts the fixed one along its entire length, or if the shears do not guarantee a clean cut after sharpening, it is recommended to proceed with blade replacement by following the steps listed below:

1. For safety reasons, make sure the shears are turned off and disconnect the battery.
2. Refer to the diagrams related to the blade replacement procedure shown below.
3. After replacement, clean the blade, insert the battery, turn on to test the blade, and finally close the blade to complete the procedure



It is possible to replace the fixed and moving blades separately. Do not pay attention to the blade opening, as it will automatically return to normal size when turned on, at the end of the replacement procedure.



Precautions for use

Use and maintenance of pruning shears

1. Do not cut branches below the specified diameter, hard elements such as metals, stone, or any other material that is not a plant. If the blades become worn or damaged, proceed with their replacement.
2. Keep the pruning shears clean. Use a clean cloth for the shears, battery, and charger (do not use any abrasive or solvent-based degreaser) and a soft brush or dry cloth to remove dirt from the head of the shears.
3. Do not immerse the pruning shears, battery, or charger in any liquid.
4. Follow the instructions for proper use of the shears. In case of damage, do not use the shears, battery, or charger.
5. Do not use the pruning shears if they do not work or do not turn off properly, but send them immediately for service. Do not use the pruning shears if they do not work or do not turn off properly.
6. Make sure the shears are turned off during any type of adjustment, accessory change, or before storing them. This protective measure helps reduce the risk of unintentional activation of the shears.

7. Make sure the blades are closed when the tool is not in use. Keep the shears out of the reach of CHILDREN and do not allow them to use them. The use of pruning shears without proper training and knowledge can be very dangerous.
8. The shears must be used following the instructions and usage methods illustrated in this manual, also taking into account the environment and the type of work to be performed. It is recommended not to use the pruning shears if capacities and specifications differ from those indicated, as it is very dangerous.
9. After each use, remove dirt from the moving and fixed blades, then apply lubricant to the side of the blade where contact occurs. This ensures that the blades are kept in good condition, reducing resistance during use and prolonging the service life of the shears and blades.



Safety notes

Warning! Read the following instructions carefully. Failure to comply with the instructions may result in electrocution, fire, or serious injury.

● Workplace safety

1. Keep the work area tidy and well lit. A messy or dark work area can cause accidents.
2. Do not use electric shears in an explosive, flammable, or damp environment.
3. Keep children and bystanders at a distance before operating the electric shears, to avoid injuries due to possible distractions.

● Electrical safety

1. The battery of the electric shears must have a socket compatible with the power cord plug; do not make any modifications to the plug.
2. Do not expose the shears to rain or moisture. The penetration of water or other liquids can increase the risk of electric shock and damage to the device.
3. Do not misuse the wires; do not use the power cord to lift, pull the shears, or unplug; keep the shears away from heat, oil, sharp edges, or moving parts; do not use the charger when the power cord or plug is damaged. Damaged and tangled cables can increase the risk of electric shock.

● Safety

1. Pay attention when using electric scissors. Do not use the device when tired or under the influence of drugs or alcohol.
2. Use protective equipment, always wear safety glasses and other safety devices such as a dust mask, non-slip boots, helmet, and hearing protection devices to reduce the risk of injury.
3. Before activating the electric scissors, make sure you have removed tools and adjustment keys. Tools left on the rotating parts of the machine can cause injuries.

4. While using the electric scissors, do not strain your hands and keep them away from the cutting area. Do not place your hands under the branches for any reason; instead, make sure that when cutting the ends of the branches, there is nothing on their upper or lower surface that could be damaged. Keep the electric scissors balanced and under control in any situation.
5. Wear appropriate clothing, avoid loose clothing or jewelry. Keep hair, clothing, and sleeves away from the scissors. Loose clothing, accessories, and long hair may get caught in the moving parts of the machine.
6. **During cutting, make sure that the hand not used to operate the pruning shears is at least 50 cm away from the hand holding the tool, to avoid the risk of injury.**

● Measures in case of malfunction

1. If the electric scissors are unable to cut something, release the trigger immediately; the moving blade will automatically return to the open position.
2. If the electric scissors need to cut a particularly hard branch, release the trigger immediately, the moving blade will automatically return to the open position.
3. If the battery does not charge properly, check that the charger is the one supplied in the product box at the time of purchase. Then, make sure that the supply voltage provided to the charger complies with the specification.
4. In case of electrical or mechanical malfunction, turn off immediately.
5. Failure to follow the instructions in this manual may cause battery fluid leakage. Do not touch the battery fluid. In case of accidental contact with the fluid, rinse immediately with clean water. If battery fluid comes into contact with the eyes, rinse with clean water and seek medical assistance. Battery fluid can cause irritation or burns.



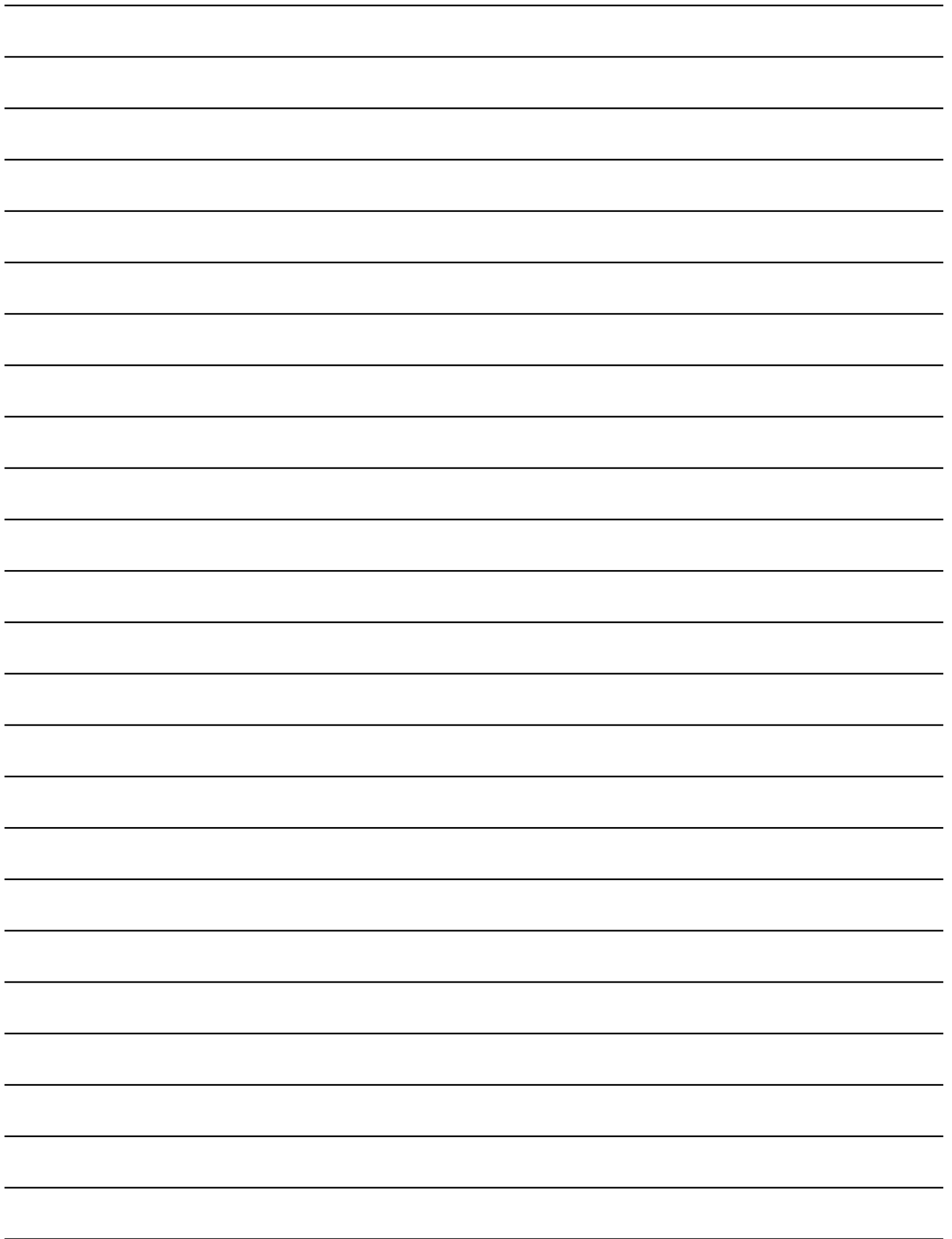
After-sales service

For any questions regarding the scissors, contact the dealer. Our professionals will solve the problems and our technicians will repair your scissors.



Declaration

The company reserves the right for the final interpretation of the product. All images contained in the manual are for reference only and the actual product may vary. It may also be subject to change without notice.



EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG - DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA'
EUROPEA - GELIJKVORMIGHEIDSVERKLARING - EC DEKLARATION I OVERENSSTEMMELSE - DECLARAÇÃO CE DE CONFORMIDADE - EY ILMOITUS - FORSAKRAN OM
OVERENSSTÄMMELSE - BEKREFTENDE EU ERKLÆRING - ΔΗΛΩΣΗ ΕΚ ΣΥΜΜΟΡΦΩΣΗΣ - EUROPEJSKA DEKLARACJA ZGODNOSCI

1) MANUFACTURER - HERSTELLER - FABRICANT - FABRICANTE - COSTRUTTORE - CONSTRUCTEUR - PRODUCENT - FABRICANTE - VALMISTAJA - TILLVERKARE -
FABRIKANT - Κατασκευαστής - PRODUCENT:

Blue Bird Industries Fabbrica Motori s.r.l.
Via Due Camini 19, 36010 Zanè (VI) Italia

2) DESCRIPTION OF THE MACHINERY - BESCHREIBUNG DER MASCHINE - DESCRIPTION DE LA MACHINE - DESCRIPCION DE LA MAQUINARIA - DESCRIZIONE DELLA
MACCHINA - BESCHRIJVING VAN DE MACHINE - BESKRIVELSE AF MASKINEN - DESCRIÇÃO DA MAQUINA - KONEEN NIMITYS - MATERIELSLAG - BESKRIVELSE AV
MASKINERIEET - ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ - OPIS MASZYN:
FORBICE DA POTATURA - PRUNING SHEAR

a) MAKE - FABRIKAT - MARQUE - MARCA - MARCA - MERK - MÆRKE - MARCA - MERKKI - FABRIKAT - FABRIKANT - MAPKA - MARKA:

BLUE BIRD

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / ΤΥΠΟΣ / ΤΥΡ:

PS 22-23 TWIN

c) Il prodotto è conforme alle direttive - The product complies with the directives - Das Produkt entspricht den Richtlinien - Le produit est conforme aux directives - El
producto cumple con las directivas:

- 2006/42/EC - 2014/30/EU - 2000/14/EC (2005/88/EC) - 2011/65/EU

d) REFERENCE TO STANDARDS/HARMONIZED STANDARDS - VERWEIS AUF NORMEN/HARMONISIERTE NORMEN - REFERENCE AUX NORMES/NORMES HARMONISEES -
REFERENCIA A ESTANDARES/ESTANDARES ARMONIZADOS - RIFERIMENTO ALLE NORME/NORME ARMONIZZATE - REFERENTIE NAAR
STANDAARDEN/GEHARMONISEERDE STANDAARDEN - REFERENCE TIL STANDARDER/HARMONISEREDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS -
VITTAUS STANDARDIEHIN/YHTEISIIN STANDARDIEHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD -
ΑΝΑΦΟΡΑ ΣΕ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN62841-3-10:2016 EN 62841-2-8:2016
EN 55014-1:2017; EN 55014-25:2015
EN 61000-3-2:2014; EN 61000-3-3:2013
EN 60335-1:2012+A11:2014; EN ISO 12100:2010

e) Il caricabatterie (mod. KH24-1261900-B) è stato fabbricato e distribuito in conformità con le seguenti direttive: 2014/35/EU, 2014/30/UE e 2011/65/UE
The charger (mod. KH24-1261900-B) has been manufactured and put on the market in accordance with the following directives: 2014/35/EU, 2014/30/EU and 2011/65/UE
Das Ladegerät (mod. KH24-1261900-B) wurde gemäß den folgenden Richtlinien hergestellt und vertrieben: 2014/35/EU, 2014/30/UE e 2011/65/UE
Le chargeur (mod. KH24-1261900-B) a été fabriqué et distribué conformément aux directives suivantes: 2014/35/EU, 2014/30/UE e 2011/65/UE
El cargador (mod. KH24-1261900-B) fue fabricado y distribuido de acuerdo con las siguientes directivas: 2014/35/EU, 2014/30/UE e 2011/65/UE

Importato da - Imported by - Eingeführt von - Importé par - Importado por:



BLUE BIRD INDUSTRIES - FABBRICA MOTORI s.r.l.

ZANÈ (VI) - ITALIA

08-09-2020

The chairman - Der vorsitzender - Le président - El presidente - Il presidente - De
voorzitter - Daglig leder - O presidente - Toimitusjohtaja - Verkställande direktör -
Administrerende direktør - Ο ΠΡΟΕΔΡΟΣ - Prezes

VANDA VITELLA

(GB) Technical documentation maintained by
(F) Documentation technique maintenue par
(I) Documentazione tecnica conservata da
(DK) Teknisk dokumentation ilhandhaves af
(FI) Teknisten asiakirjojen ylläpitäjä
(NO) Teknisk dokumentasjon vedlikeholdt av

(D) Technische Dokumentation aktualisiert durch
(E) Documentación técnica mantenida por
(NL) Technische documentatie onderhouden door
(P) Documentação técnica mantida por
(SE) Teknisk dokumentation ilhandhaves av
(GR) τεχνικό φάκελο που τηρείται από

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