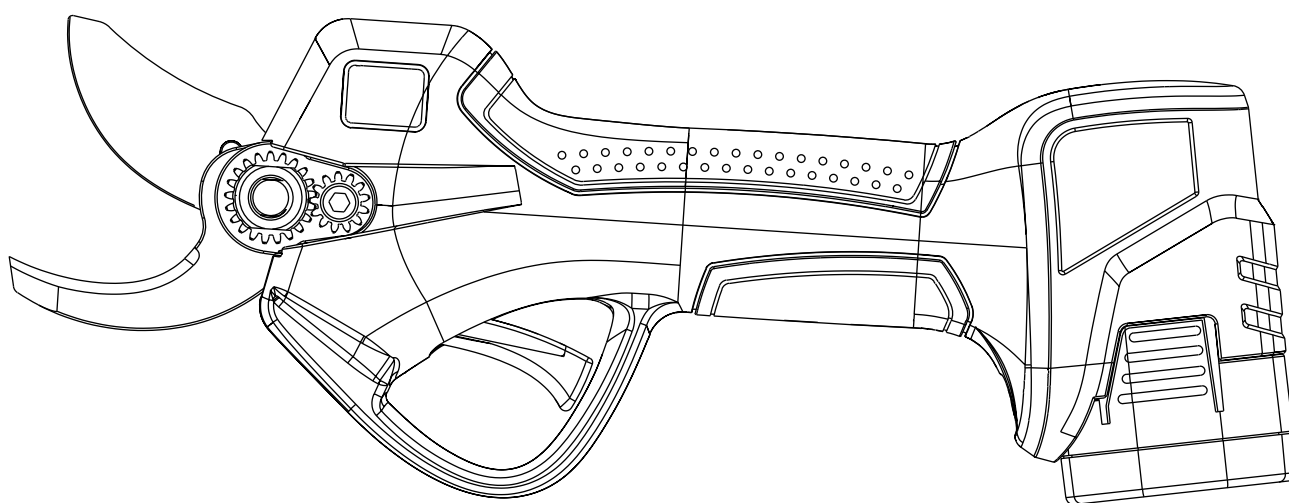




**BLUEBIRD
INDUSTRIES**

Pruning shears

PS 23-28C FASTER



Product using manual
-original instructions-

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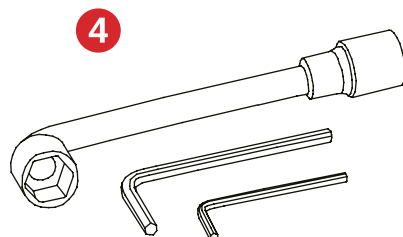
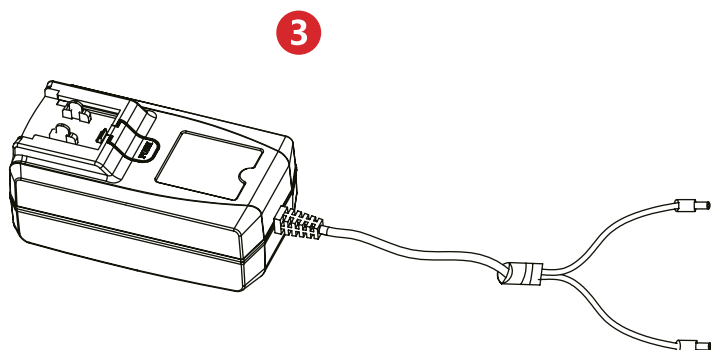
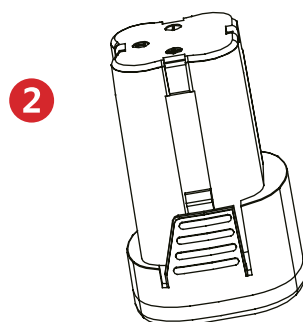
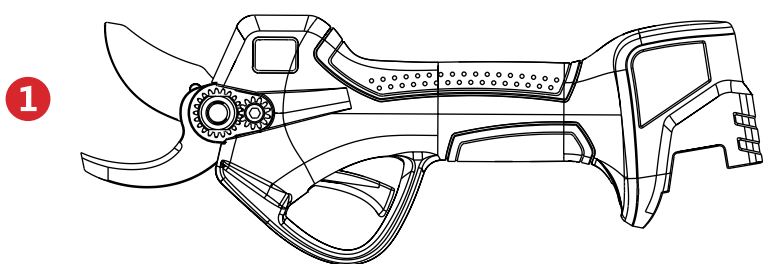
Dear customer, thank you for choosing our product! In order to a better use of this product, it is imperative to read this manual in its entirety adn retain this manual for future reference. Should any irregularity happen during operations, please contact us immediately, our professionals will answer all your questions. We hope you enjoy using our pruning shear!



Packing list

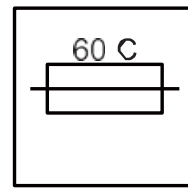
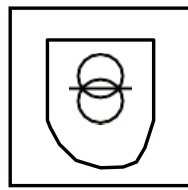
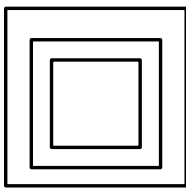
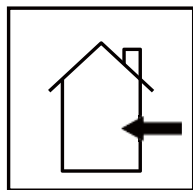
Included in the case

1. Electric pruning shear
2. Lithium battery
3. Battery charger
4. Tool kit





Product overview



Note

1. Please read through the manual carefully.
2. Battery can only be charged indoors.
3. Double isolation, grounding not required.
4. Fail-safe transformer charger.
5. Battery charging will automatically cut off when overhaeting occurs.
6. Dispose battery charger separately from household waste.
7. Dispose battery separately from household waste.

Product description

This product is battery-driven electric pruning shear, comprises a fixed blade, a movable blade, lithium battery, battery charger, power cord, work vest, tool box and other components. It's designed for cutting or trimming 28mm or less branches in fruit orchards, vineyards, etc. Simple and easy to operate, it also has 8-10 times of the traditional manual pruning efficiency, and the pruning quality is higher than a traditional manual pruning shear.

Technical Specification

Max voltage	16.8V
Rated voltage	14.4V
Charging voltage	AC110V~220V
Charging duration	1-1.5h
Operation duration	3-4h
Rated power	100W
Max power	500W
Total weight	750g



Please read through all safety warnings and instructions carefully. Failure to follow warnings and instructions may result in electric shock, fire and serious burns and other accidents.



Do not use or expose electric pruning shear in rainy conditions.



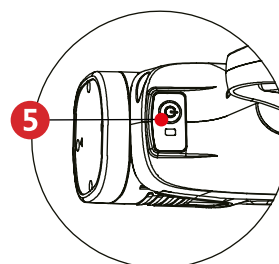
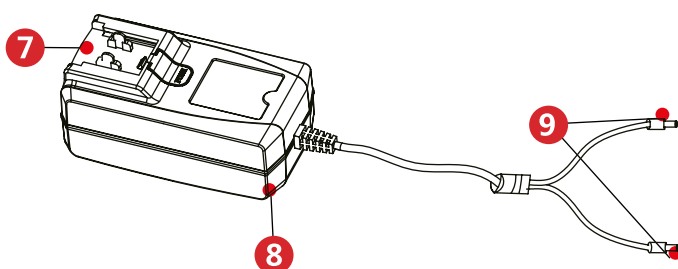
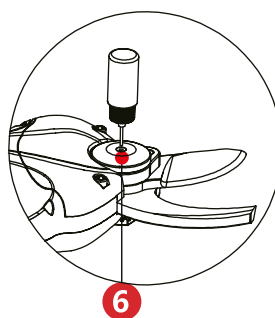
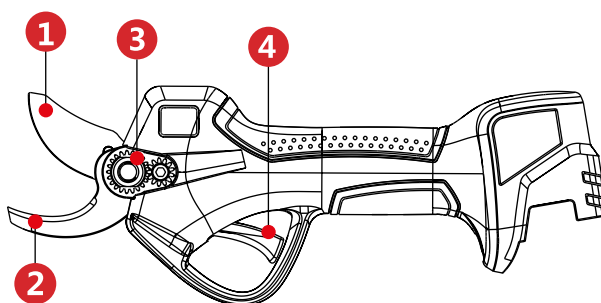
Never place hands near the cutting area of the electric pruning shear during operations.



Never contact charged objects with electric scissors.

● Product components

1. Moving blade
2. Fixed blade
3. Pin
4. Trigger
5. Power control switch
6. Battery removal button
7. Charger AC plug
8. Charger
9. Communication jack



In case of any fault, please handle it according to the prompt code on the display screen.

When using this product, if the following code appears on the screen, repair or handle according to the corresponding fault prompt.

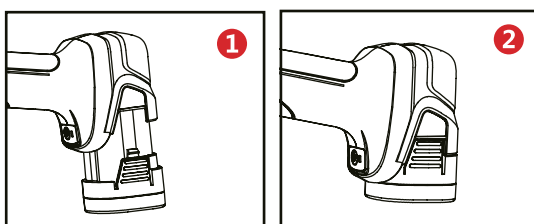
Alarm content	The mainboard's LED flashes for several times	The mainboard's BUZ rings for several times	Display fault of the LED
No fault	0	0	E00
Anti-hand cutting protection	1	1	E01
Current sensor error	2	6	E02
MOS tube damage	3	6	E03
Hall fault/blade breaking	4	3	E04
Peak overcurrent/average current protection	5	5	E05
Blocked opening/blocked rotor	6	3	E06
Default phase	7	4	E07
Undervoltage/overvoltage	8	1	E08
MOS/chip over-temperature	9	6	E09
PWM communication failure/ shears bit voltage error	10	7	E10
Shears bit type error	10	7	E10
EEPROM error	11	6	E11
Phase detection failure	12	4	E12
Programming error	13	6	E13
> historical pruning times	14	5	E14
> maintenance pruning times	15	5	E15
The number of batteries in the shears bit and battery pack is different.	16	9	E16
The mainboard fails to communicate with the battery pack.	17	10	E17



Product Operation

Setting up

1. Insert the battery into the power connector of the pruning shear
2. Switch ON the power switch of the pruning shear due to the first time usage that the LED display indicator will be green and the buzzer will buzz for 1 time
3. Double click the trigger, the pruner blades will automatically open
4. Normal pruning: press the trigger to close the blades and release the trigger to open the blades
Blade closing: continue to press the trigger, a continual buzz means the blade will stay closed.
5. Before operation, in order to see if the pruner performances well, please press the trigger to close and release the trigger to open the blades without cutting anything. Repeat this for a few times.



Packing up

1. Press the trigger and hold for a few seconds and then release, the blade will close and won't open anymore.
2. Switch off the battery, disconnect the battery.
3. Tidy up, clean up and pack the pruning shear into the tool box.

Failure Tips

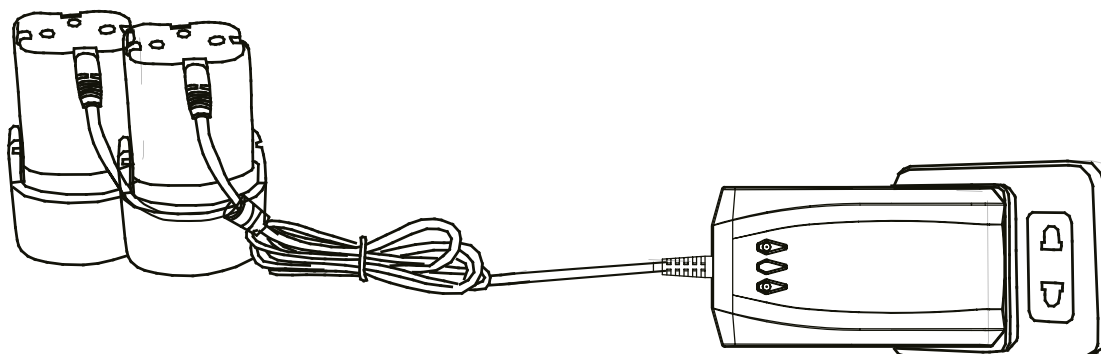
Buzzer Sound Frequency Times	Failure	Solution Method
1	Battery capacity	Check if battery capacity is low
2	Communication failure	Check if every part of cable connector is loose
3	Blade failure	Oil on blade
4	Motor phase loss	Send it to local dealer for maintenance
5	Motor phase line short-circuit	Check if cable or head of the connector has short-circuit caused
Buzzer continuos ringing		Check whether body contact to the blade



Use, Maintenance and Precautions of Battery

Battery Charging

Connect the battery to the charger and the charger plug to the power socket. The LED indicator on the battery will turn RED during charging and turn GREEN when the battery is fully charged.



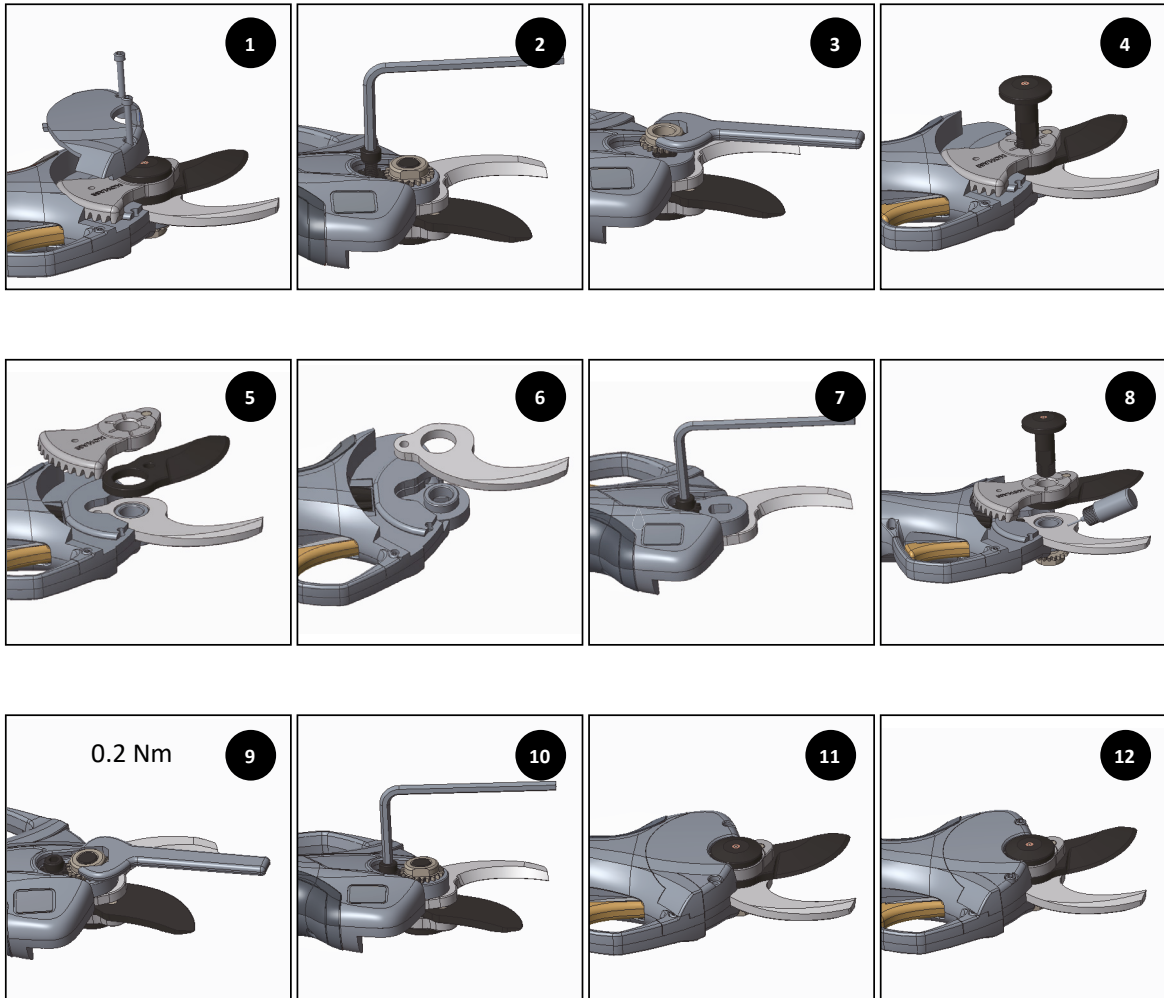
Cautions

1. It is normal for the charger and battery to heat slightly during charging.
2. If the battery is not used for a long time, it needs to be recharged every three months to prolong its service life.
3. A new battery or a battery that has not been used for a long time will not reach its maximum capacity before about five times of charging and discharging.
4. Do not recharge after a short operation, which may reduce battery life and performance.
5. Do neither use a damaged battery pack nor disassemble the charger and the battery pack.
6. The battery will explode when it is put into fire. Do not bake the battery pack.
7. Do not charge the battery in outdoor and humid environments.
8. As the battery power decreases, the shearing capability of diameter will decrease.
9. Be sure to disconnect the electric pruning shears before charging. Do not use it while charging.
10. Do not store the battery pack in a humid environment.

Blade replacement

When the entire length of the moving blade no longer coincides well with the fixed blade, or if the blade after grinding is still not clean after cleaning, it is recommended to replace the blade. The replacement steps are as follows:

1. For safety, please power off before replacement and remove the battery.
2. Follow the steps below to replace the blade.
3. After the replacement, clean it, connect the battery, check the power and close the blade.



- ★ Fixed and movable blades can be replaced individually; do not worry about size of the replacement blade aperture, the opening will automatically return to normal size during power ON after completing blade replacement.



Operation Precautions

1. Do not cut branches beyond the working scope of the trimmers. Do not cut hard things such as metal, stone and other non plant materials. Do not clamp tools with vise. If the blade is worn or damaged, please replace the blade in time.
2. Keep the equipment clean. Use clean cloth to clean the electric pruning trimmers, battery pack and charger (do not use corrosive or solvent based cleaners), and use soft brush or dry cloth to clean the dust on the trimmershead.

3. Do not immerse the electric pruning trimmers, battery pack and charger in any liquid such as water.
4. Please use the equipment according to the instructions. Do not use the electric pruning trimmers, battery pack and charger when they are damaged.
5. If the switch cannot be switched on or off normally, do not use the electric pruning shears. The electric pruning shears that cannot be controlled by the switch are dangerous and must be repaired.
6. Make sure that the switch is closed when making any adjustment, replacing accessories or storing the electric pruning shears. This protective measure will reduce the risk of accidental start-up of the electric pruning shears.
7. Please store the idle electric trimmers out of the reach of children when the blade is closed. Do not let people who are not familiar with the electric trimmers or do not understand the instructions to operate them. It is dangerous for untrained users to use them.
8. When using electric trimmers and accessories, follow the instructions and methods of use, and consider the working environment and the work to be completed. Using the tools for operation inconsistent with the requirements may lead to hazards.
9. After using the blade, the dirt should be removed first, and then the contact part should be coated with lubricating oil or engine oil to keep the blade in normal maintenance state. The next use will reduce the resistance and prolong the service life of the blade.

● Maintenance and Precautions of Battery

1. Do not charge in an environment below 0° and above 45°, which may damage the battery and the charger.
2. Please turn off the switch before connecting the battery. If the switch is on, accidental connection of the battery to the machine is likely to occur.
3. Charge the battery only with the charger designated by the manufacturer. The use of other chargers may lead to fire and other dangers.
4. When the battery is not in use, keep it away from small metal objects such as paper clips, coins, keys, nails and screws that will lead to short circuit, for short circuit may lead to burns or fire.
5. Do neither disassemble nor reassemble the battery.
6. Do not use batteries with short circuit.
7. Do not use the battery near any heat source.
8. Do not put the battery into fire or water.
9. Do not charge near fire or sunlight.
10. Do not insert any nail into the battery and hit or throw the battery with a hammer or foot.
11. Do not use batteries that are severely damaged or deformed.
12. Do not weld directly on the battery.
13. Reverse charging, reverse-pole connection and over-discharge of the battery is not permitted.
14. Do not connect the battery to power sockets or car cigarette lighter socket.
15. Do not use it on non-designated devices.
16. Direct contact with lithium battery is prohibited.
17. Do not place the battery in containers with high temperature and high pressure such as a microwave oven.

18. Do not use any leaky battery.
19. Keep the battery away from children's reach.
20. Do not use or place the battery under the sun (or direct sunlight), otherwise it may cause the battery to overheat and catch fire, which will result in functional failure and shortened life.
21. Do not use the battery in places with static electricity (>64V).
22. In case of any corrosion, bad smell or abnormality when the battery is first used, please do not use it and return it to the sales outlet.
23. If skin or clothes are stained with electrolyte from the battery, please rinse with clean water.
24. If the electric pruning shears are not used for a long time, the battery needs to be charged for storage.



Safety Notes

Please read all instructions carefully. Failure to follow all instructions below may result in electric shock, fire or other serious injury!

● Workplace safety instructions

1. Keep the workplace clean and bright. Chaotic and dark workplaces may cause problems.
2. Do not operate electric pruning shears in explosive, flammable and humid environment.
3. Let the children and bystanders leave before normal operation of the electric pruning trimmers, so as to avoid distraction in the operation and cause accidental injury.

● Electrical Safety Instructions

1. The battery socket of the shears must match the battery connector. Do not modify the socket and plug in any way.
2. Do not expose the shears to rain or moisture. Water or other liquids entering it may increase the risk of electric shock and damage to the device.
3. Do not misuse wires; do not use the power cord to lift, pull the shears or pull out its plug; 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 entangled wires can increase the risk of electric shock.

● Personal Safety Instructions

1. Be alert, pay attention to the operation and keep awake when operating the shears. Do not operate them under fatigue, medication and alcohol reaction. Distraction during operation may cause serious personal injury.
2. Use safety guards and always wear goggles, etc. Under appropriate conditions, dust masks, non-slip safety shoes, helmets, hearing protection, etc. can reduce personal injury.
3. Remove all adjustment keys and wrenches before turning on the shears. Any wrench or key left on the rotating parts of the shears can cause personal injury.
4. When operating, do not stretch your hands too long, keep your hands away from the work area, never extend your hands under the material for any reason, ensure that any material or surface under the operating area is not damaged, and always pay attention to the balance between the feet and the body to better control the shears in case of any accident.
5. Dress properly, do not wear loose clothes or ornaments and keep your hair, clothes and sleeves away from moving parts, for loose clothes, ornaments or long hair may get caught in moving parts.

Irregularity measures

1. In the event pruning shear is not able to cut through an object, release the trigger immediately and the moving blade will return to its open position automatically.
2. In the event the pruning shear is cutting through a branch of particularly hardness release the trigger immediately and the moving blade will return to its open position automatically.
3. In the event the battery is not charging properly, please check if the charger is the one provided with the package during purchase. Next is to ensure the supply voltage of the charger is same rating as the specification of the charger.
4. In the event of electric or mechanical malfunction, power OFF immediately.
5. Operating not following instructions in this manual may result battery fluid leakage, do not contact the leaked battery fluid. In the event of accidental contact with battery fluid, clean with clear water immediately. If the battery fluid keeps in contact with the eyes, wash with clear water and must seek hospital assistance. Fluid from leaked battery may cause irritations or burns.



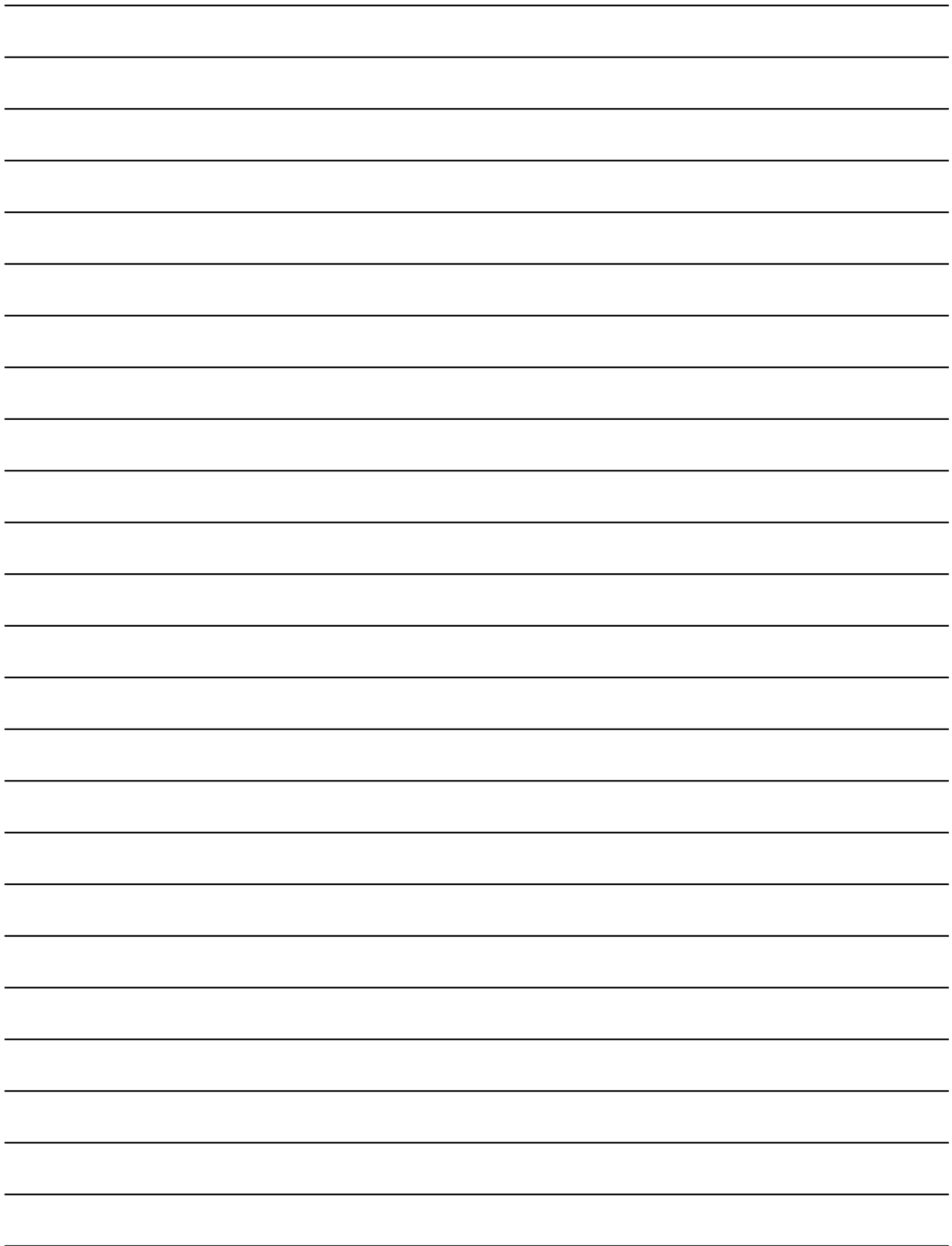
After sales service

If you have any questions in the process of use, please contact us in time (see the last page for contact information). We have professional personnel to answer your questions and problems, and let qualified maintenance personnel use identical replacement parts to repair electric tools, which can maintain the safety performance of electric pruning shears.



Statement

The Company reserves the right to make technical improvements to the products described in this manual. Please understand if there is any change! If there is any discrepancy between the graphic image and text description in this manual and the real object, please refer to the real object!



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 OVERENSSTAMMELSE - 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 MASKINERIE – 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 INDUSTRIES Fabbrica Motori srl
Via Due Camini 19, Zanè, Italia

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / ΤΥΠΟΣ / TYP:
PS 23-28C FASTER

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/HARMONISEREDDE STANDARDER - REFERENCIA AS NORMAS/NORMAS HARMONIZADAS - VITTAUS STANDARDEIHIIN/YHTEISIIN STANDARDEIHIIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΦΟΡΑ ΣΕ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN62841-1:2015/A11:2022
EN ISO 12100:2010

e) Il caricabatterie (mod. KH24-1681420-2E) è stato fabbricato e distribuito in conformità con le seguenti direttive: 2014/35/EU, 2014/30/UE e 2011/65/UE
The charger (mod. KH24-1681420-2E) has been manufactured and put on the market in accordance with the following directives: 2014/35/EU, 2014/30/UE and 2011/65/UE
Das Ladegerät (mod. KH24-1681420-2E) wurde gemäß den folgenden Richtlinien hergestellt und vertrieben: 2014/35/EU, 2014/30/UE e 2011/65/UE
Le chargeur (mod. KH24-1681420-2E) a été fabriqué et distribué conformément aux directives suivantes: 2014/35/EU, 2014/30/UE e 2011/65/UE
El cargador (mod. KH24-1681420-2E) fue fabricado y distribuido de acuerdo con las siguientes directivas: 2014/35/EU, 2014/30/UE e 2011/65/UE

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VANDA VITELLA

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(F) Documentation technique maintenue par
(I) Documentazione tecnica conservata da
(DK) Teknisk dokumentation tilhåndhællen av
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(E) Documentacion tecnica mantenida por
(NL) Technische documentatie onderhouden door
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(GR) τεχνικό φάκελο που τηρείται από

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