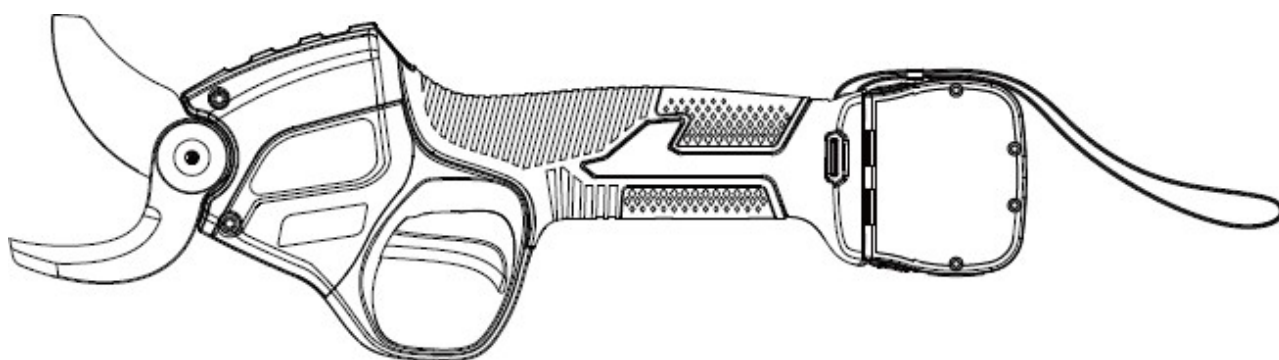




**BLUEBIRD
INDUSTRIES**

Pruning Shears

PS 22-38



Product using manual
-original instructions-

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Dear users, first of all, thank you for choosing our high quality products!
In order to better use the product, please read the instructions carefully before use, and keep this manual for future reference. If you have any questions in the use process, please contact us in time. We have professional personnel to answer your questions. Wish you happy!



Warning

Please read all safety warnings and instruction carefully. Failure to comply with the relevant warnings and instructions may result in electric shock, fire or other serious injury.

Please keep all warnings and instructions for future reference.

Description of environmental protection



Please comply with the relevant national laws and regulations on waste disposal. Electronic and electrical appliances should not be treated as domestic waste. Equipment, accessories and packaging shall be recyclable.



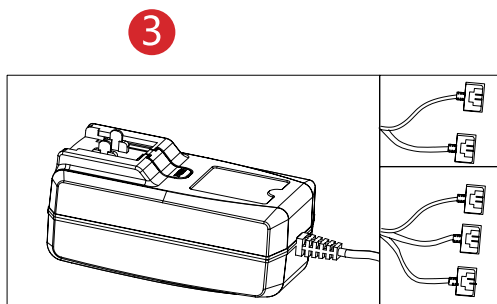
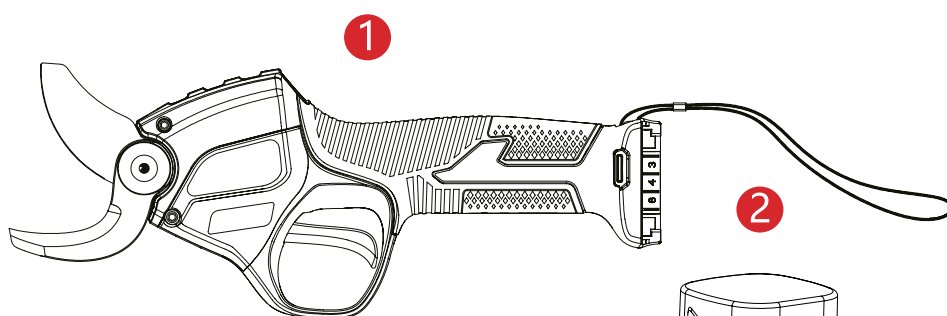
It is forbidden to discard the machine at will.



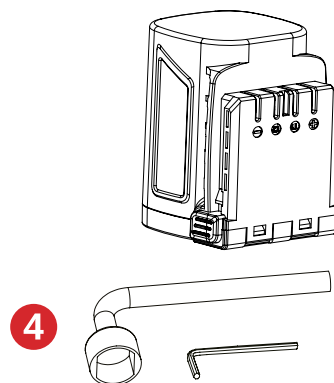
Packing list

The tool cabinet contains the following accessories:

1. Electric pruning shears
2. Lithium battery
3. Changer
4. Supporting tools

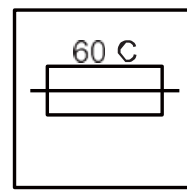
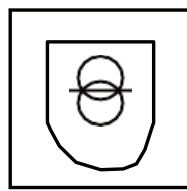
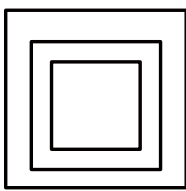
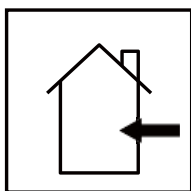


Note: This charger is based on the product model you buy to determine whether it is equipped with one charger or two chargers, or one charger for three.





Product overview



● Explain

1. Please read the manual carefully.
2. It can only be charged indoors.
3. Double insulation without grounding.
4. Fail safe transformer.
5. When the charger overheats, it will cut off power automatically.
6. Do not dispose the charger with household waste.
7. Do not dispose of batteries with household waste.

● Performance description

This product is a battery driven electric pruning shears, which is composed of fixed blade, mobile blade, lithium battery, charger, etc. It is mainly used for cutting and pruning grafting of fruit branches below 18mm and pruning and harvesting of a large number of orchards. When used, it is simple and convenient, which is 8-10 times of the traditional manual pruning efficiency, and the pruning quality is obviously higher than that of the traditional pruning shears.

● Specification parameters

Working voltage	21.6V
Input voltage of charger	AC110-220V
Battery charging time	2-2.5h
Battery working time	4-6h
Rated power	300W
Maximum power	1000W
Trimmer diameter	38mm
Working environment temperature	-10°C / 60°C



Please read all safety warnings and instructions carefully

If the relevant warnings and instructions are not followed, electric shock, fire and severe burns may occur.



Do not use or expose electric trimmer in rain.



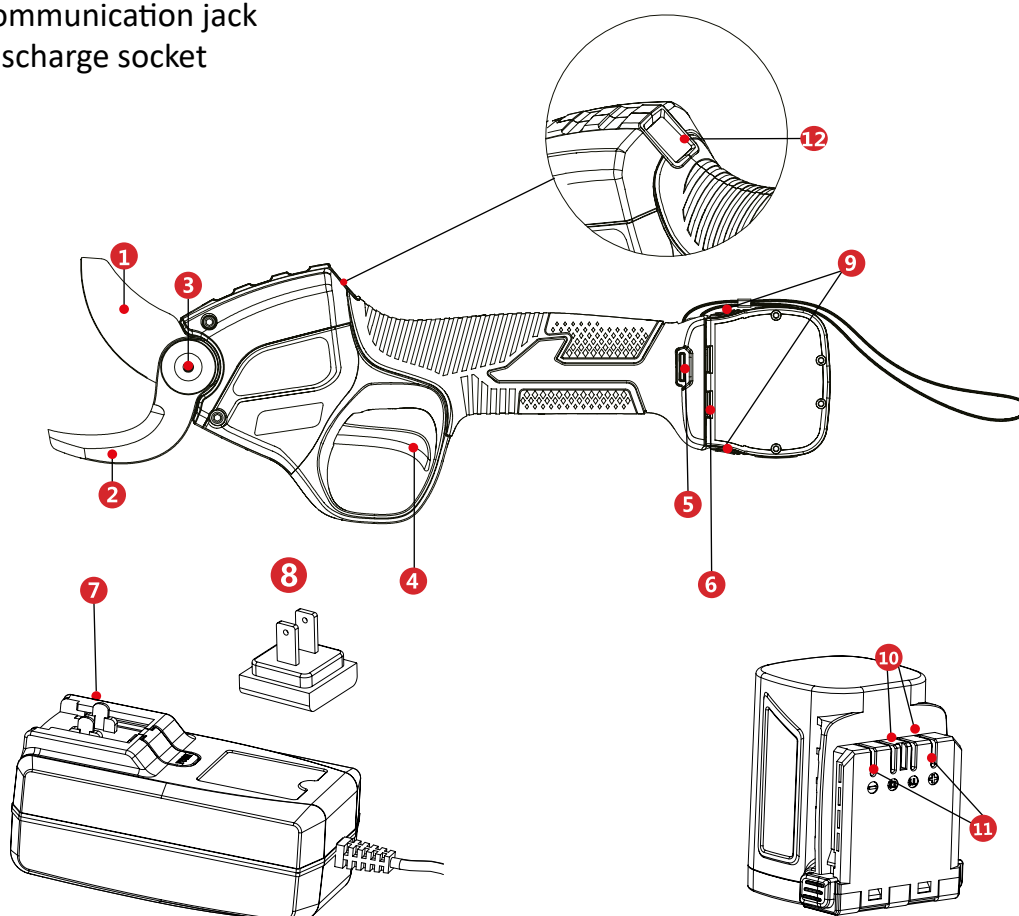
When operating the electric trimmer, do not put your hands near the cutting area to avoid injury.



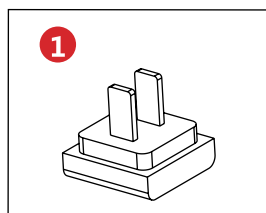
Do not put the trimmer in contact with live objects to avoid injury.

● Name and schematic diagram of each part

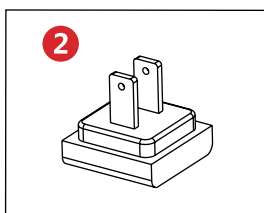
1. Lower blade
2. Upper blade
3. Pin
4. Trigger
5. Power control switch
6. Battery pack insertion interface
7. Charger plug
8. Charger AC socket
9. Battery removal button
10. Battery communication jack
11. Battery discharge socket
12. Display



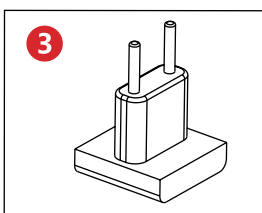
Universal charger-charging plug display



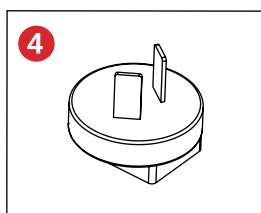
Chinese standard



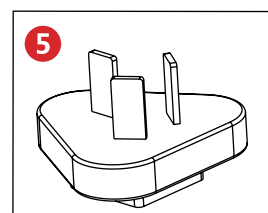
American standard /
Japanese standard



European standard /
Korea standard



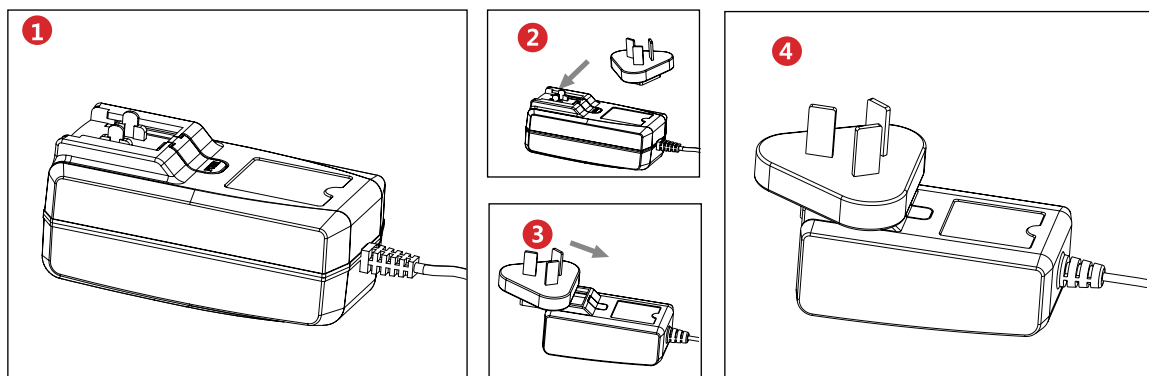
Macau standard



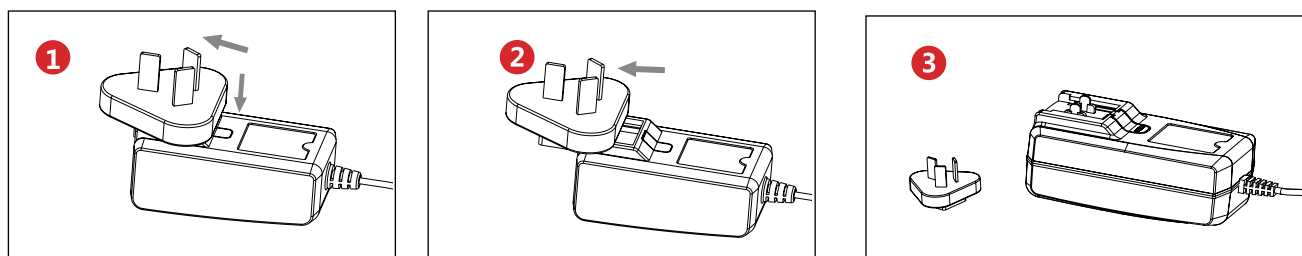
British standard

Disassemble & assemble the charging plug

Push the charging plug inward in parallel with the socket of the charger to complete the installation.



Press and hold the disassembly button as shown in Figure 1, and simultaneously push the charging plug outward.





Use and maintenance of products

● Instructions before use:

1. Please confirm the power of the battery pack before use.
2. When the trimmers are not in use, make sure that the trimmers and the power supply are disconnected. Please bear in mind that the power supply of the trimmers must be disconnected in the process of refueling grinding blade and replacing blade.
3. Please check the tightness of the blade before use (see P9).

● Operating instructions

1. Open the package and insert the battery pack into the insertion interface of the electric trimmer.
2. Turn on the power control switch, and the power indicator is green. (see P3)
3. When the power is on for the first time, the buzzer rings twice, and the trigger is pulled twice continuously to enter the activation state.
4. Normal shearing: press the trigger and the blade closes. Release the trigger and the blades open. Blade closing: press the trigger continuously, and the long sound of buzzer is the blade closing state.
5. Before working, please press the trigger intermittently to close the blade without load for several times to check whether it is normal.
6. Start working after normal operation.



● Packing operation

1. Pull the trigger and keep pressing the switch for 2 seconds to shut down
2. Remove the battery
3. Sorting, cleaning and packing.

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

Fault prompt 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	Other Instructions
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-temperatue	9	6	E09	
PWM communication failure/shears bit voltage error	10	2	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	

E14: defined, unexecuted protection;

E15: defined, only unexecuted protection is reminded and the display board beeps five times for minute;

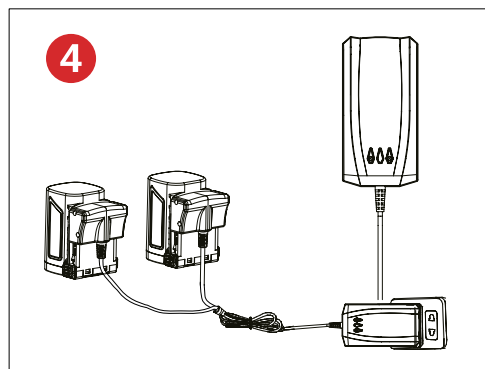
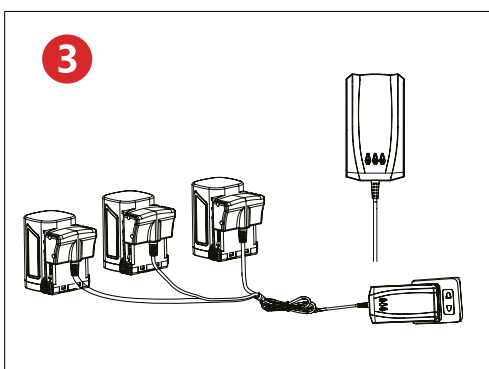
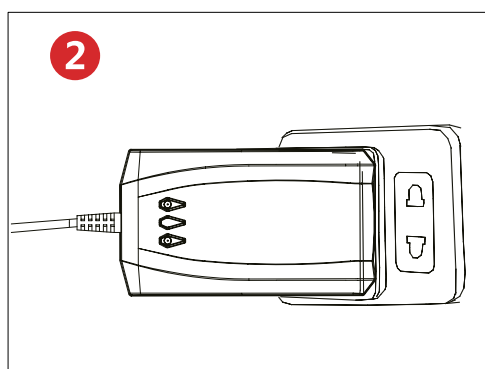
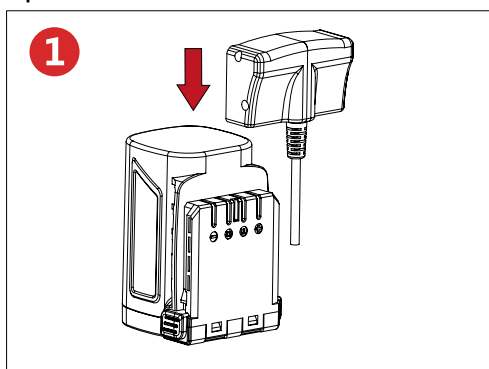


Note for battery use and maintenance

Battery charging

The battery of the new product is not fully charged. Put the charger flat on the table and insert the battery into the charging slot, as shown in Figure 1. Then insert the power plug of the charger into the power socket. When the indicator is red, it indicates that charging begins. The charger indicator lights are all green, and the charging operation is complete.

Charging steps:



Precautions: Each indicator light represents the charging state of one USB. This charger has three/two USB ports, as illustrated in Figs. 3-4. Two-port and three-port chargers are optional based on the model of the product you purchase.

Note

1. When charging, the charger and battery have a little heating, which is normal.
2. If the battery is not used for a long time, it must be recharged once every 3 months in order to prolong its service life.
3. A new battery or a battery that has not been used for a long time needs about 5 charge and discharge cycles before reaching the maximum capacity.
4. Do not recharge the battery after a short period of operation, which may reduce the working time and efficiency of the battery.
5. Do not use a damaged battery pack and do not disassemble the charger and battery pack.
6. The battery will explode when put into the fire. Do not barbecue battery packs.

7. Do not charge the battery outdoors or in humid environment.
8. With the gradual decrease of battery power, the ability of shear diameter will decrease, which is a normal phenomenon.
9. During charging, the electric trimmer must be cut off. It is forbidden to use electric trimmer when charging.
10. Do not store the battery pack in a humid environment.

 Note for battery maintenance

1. Do not charge under 0°C and above 45°C, which may damage the battery and charger.
2. Please turn off the switch before connecting the battery. When the switch is turned on, it is easy to connect the battery into the machine and cause accidents.
3. Only use the charger specified by the manufacturer to charge the battery. Using a charger that does not match the battery may cause fire and other hazards when charging the battery.
4. When the battery is not in use, it should be kept away from paper clips, coins, keys, nails, screws and other small metal objects that will short circuit the battery.
Short circuit of the battery may cause burns or fire.
5. Do not disassemble or reassemble the battery.
6. Do not short circuit the battery.
7. Do not use near heat source.
8. Do not put the battery into fire or water.
9. It is forbidden to charge the battery near the fire or in the sunlight.
10. It is forbidden to insert nails into the battery, impact or throw the battery by hammering or stepping on the battery.
11. Do not use batteries that are seriously damaged or deformed.
12. Direct welding on the battery is prohibited.
13. It is forbidden to reverse charge, reverse pole connection or excessive discharge of the battery.
14. Do not connect the battery to the charging socket or the socket of the automobile cigarette lighter.
15. Do not use on non specified equipment.
16. Direct contact with lithium batteries is prohibited.
17. It is forbidden to put the battery in high temperature and high pressure container such as microwave oven.
18. Do not use leaky batteries.
19. Keep batteries away from children's reach.
20. It is forbidden to use or place the battery in the sunlight (or direct sunlight on the vehicle), otherwise it may cause overheating and fire of the battery, resulting in functional failure and shortened service life.
21. It is forbidden to use batteries in places with static electricity (more than 64V).
22. When the battery is used for the first time, if there is corrosion, bad smell or abnormal phenomenon, it is forbidden to use it and send it back to the sales point.
23. If the skin or clothes are stained with the electric liquid on the battery, please rinse with water.
24. If the electric trimmers are not used for a long time, the battery should be fully charged for storage.



Use and maintenance of products

Instructions before use:

1. Please confirm the power of the battery pack before use.
2. When the trimmers are not in use, make sure that the trimmers and the power supply are disconnected. Please remember that the power supply of the trimmers must be disconnected in the process of refueling, grinding blade and replacing blade.
3. Please check the tightness of the blade before use.



Oil the blade

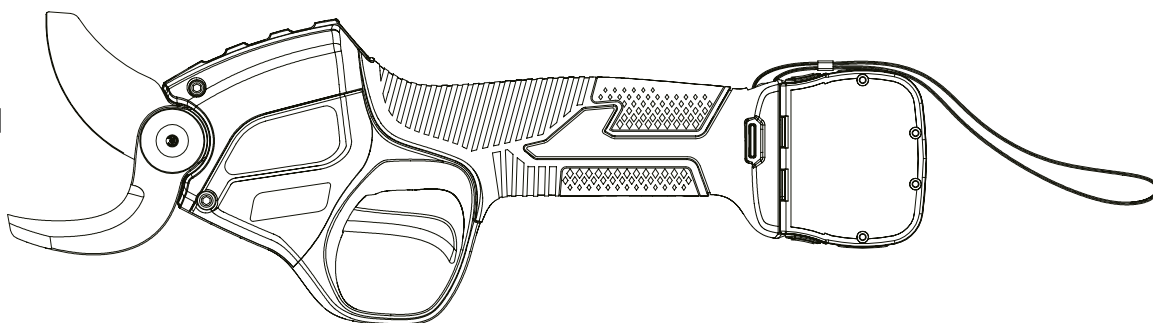
The power supply of the trimmers must be disconnected before operation.

The blade needs to be lubricated again before use or for more than 4 hours. The correct way to lubricate is to open the blade.

The steps are as follows:

The oil filling hole on the back of the blade is 1. Squeeze the lubricating oil from the oil bottle into the oil filling hole and cut it for several times to make the lubricating oil evenly distributed.

Lubricating oil
adding place



Blade tightness adjustment

The power supply between the trimmers and the battery pack must be cut off before operation.

Check the tightness of the blade before use. The blade with proper tightness will not swing left and right. If the blade tightness is normal, the trimmers will be very labor-saving when cutting.

Note: the blade should not swing laterally when the blade is closed. Lateral swing is an abnormal state. Lateral swing will produce a gap between the two blades, resulting in the teeth of the gear can not mesh correctly, which will damage the mechanical structure.

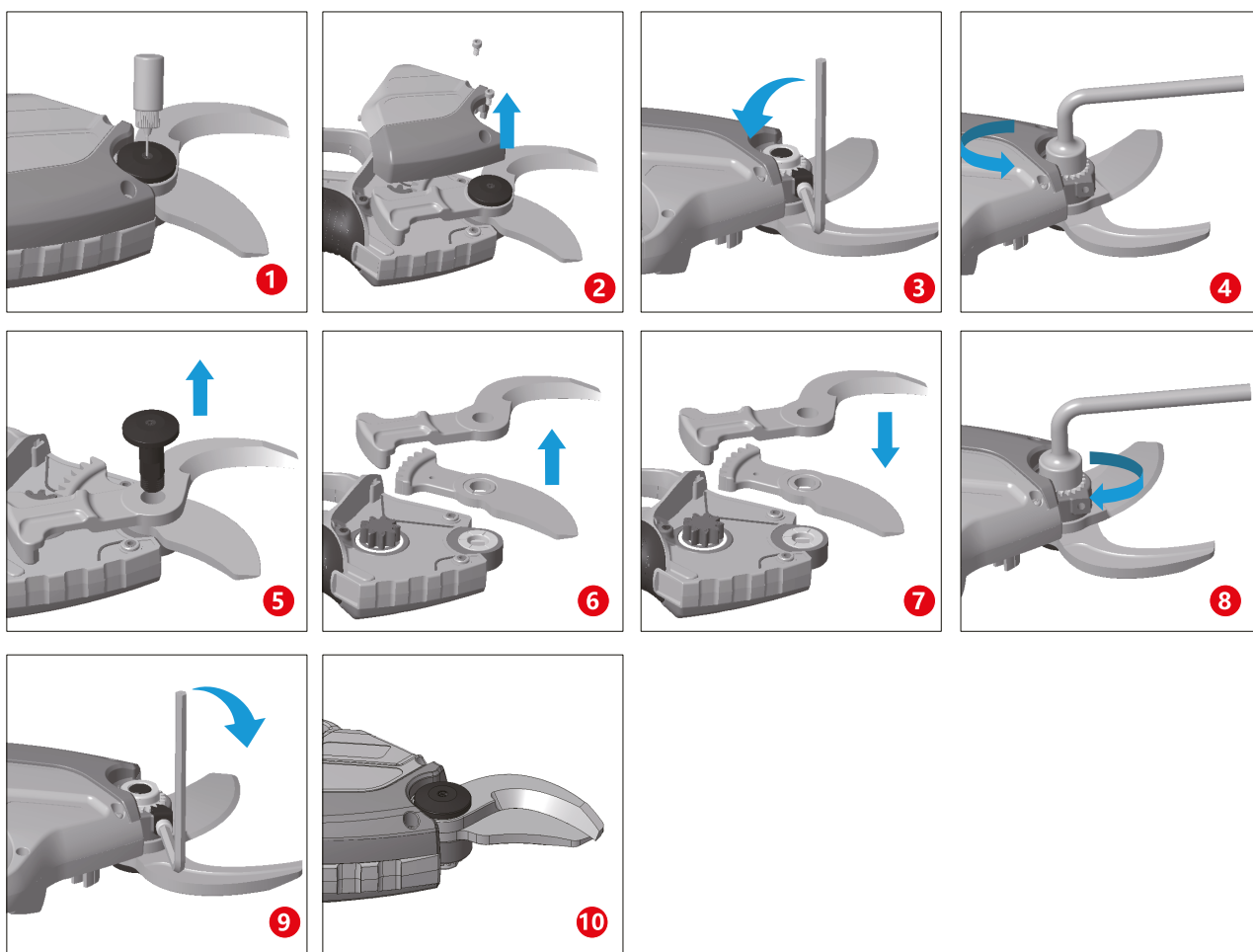


Replace the blade

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

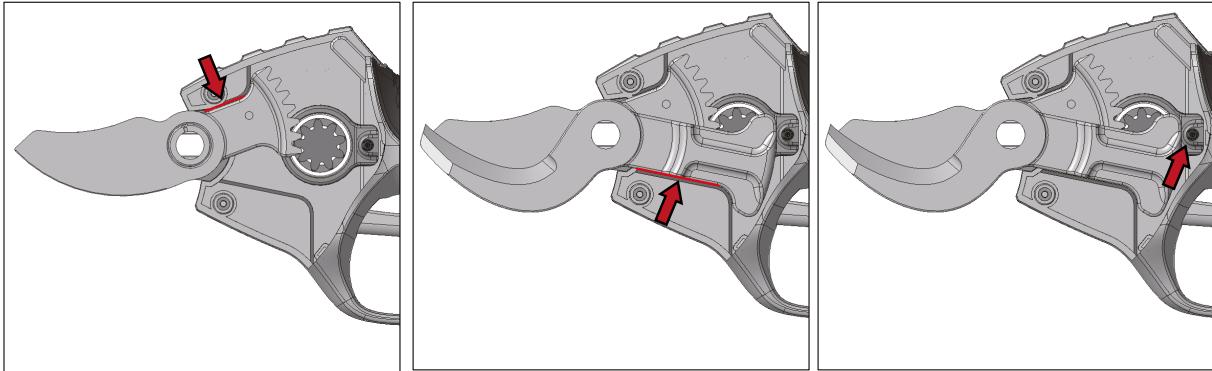
When the upper blade and the lower blade do not coincide well, or the blade is still not cut clean after grinding, it is recommended to replace the blade. The operation steps are as follows:

1. To ensure safety, power off and remove the battery before replacement.
2. Change the blade step by step according to the following figure.
3. After the replacement, clean, connect the battery, power on the detection and close the blade.





Note for blade installation: Please turn on the power switch before installing the blade and pull the trigger twice continuously after the scissors are reset to zero, power off and then install the upper and lower blades according to the instructions.



● Precautions for use and maintenance of trimmers

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.



Safety Precautions

Keep the cutting edge closed when the shears stop working.



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.
6. **During cutting, make sure that the hand not used to operate the pruning shears is kept at least 50 cm away from the hand holding the tool, to avoid the risk of injury.**



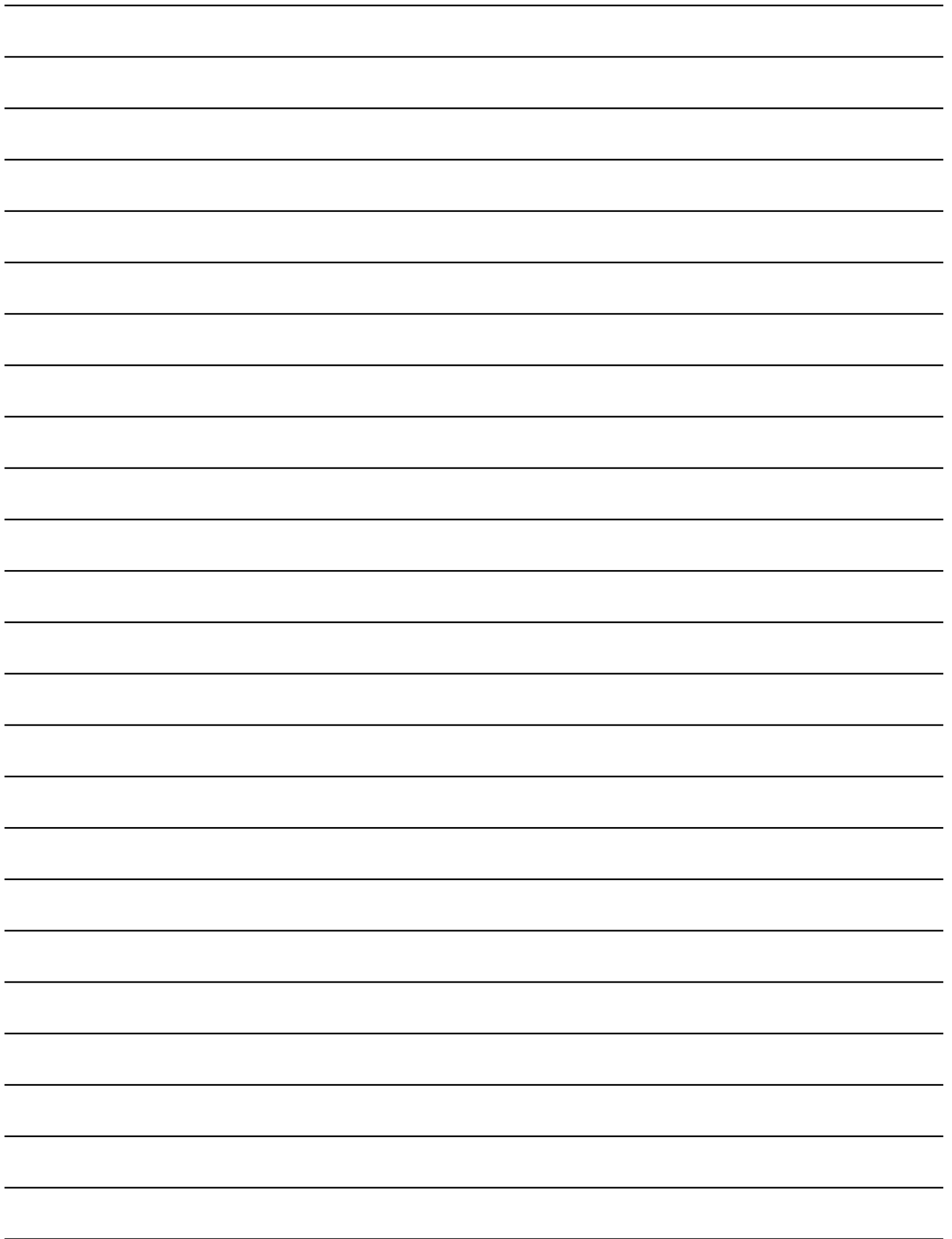
After-sale service

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

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

b) TYPE / TYP / TYPE / TIPO / TIPO / TYPE / TYPE / TIPO / MALLI / TYPBE / TYPE / ΤΥΠΟΣ / TYP:
PS 22-38

c) The product complies with the directives - 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 STANDARDEIHIN/YHTEISIIN STANDARDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES STANDARD - ΑΝΑΦΟΡΑ ΣΕ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN62841-1:2015; 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/UE 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

29-11-2021

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VANDA VITELLA

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

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(E) Documentación técnica mantenida por
(NL) Technische documentatie onderhouden door
(P) Documentação técnica manida por
(SE) Teknisk dokumentation ilhandhællen av
(GR) τεχνικό φάκελο που τηρείται από

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