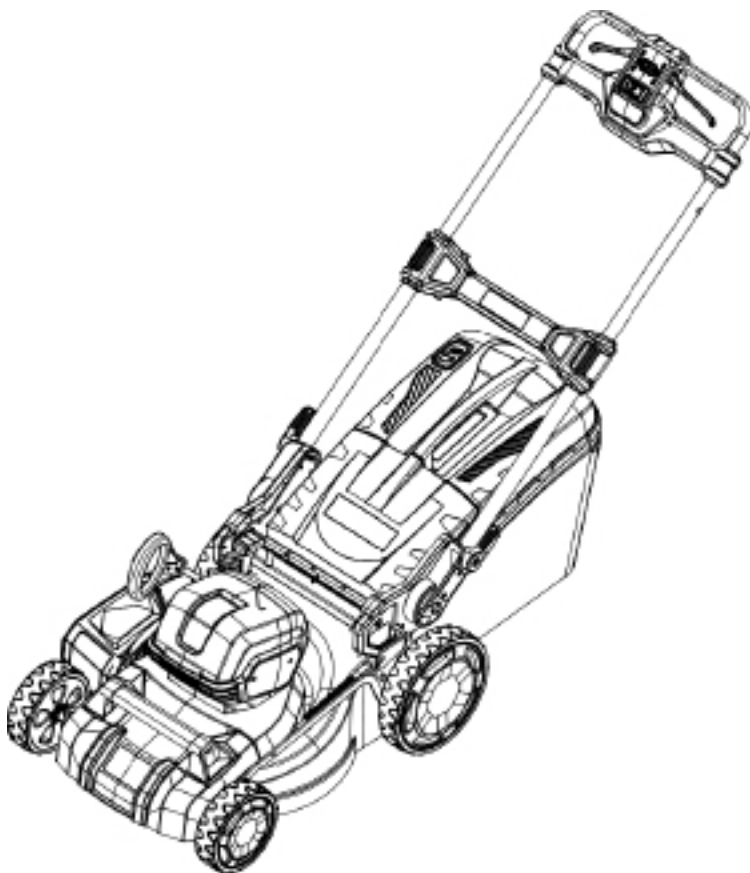




**BLUEBIRD
INDUSTRIES**

Battery-powered lawn mower LM 22-46T



Product user manual
-translation of the original instructions-

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Dear users:

Thank you for choosing our product. We develop and manufacture high-quality products according to the needs of our customers. Our products have proven to be highly reliable, even under extreme conditions. The company is also synonymous with excellent service quality. Our professional dealers provide services and support to resolve any questions regarding our products. Thank you for the trust you have placed in our company. We wish you a pleasant user experience.

Warning



Carefully read all warnings and safety instructions. Failure to follow warnings and instructions may result in electric shock, fire, or other serious injuries.

Keep all warnings and instructions for future reference.

Description of environmental protection



Strictly comply with the laws and regulations of your country regarding waste disposal. Electrical and electronic devices cannot be disposed of as household waste. Equipment, accessories, and packaging must be recyclable parts.



Do not throw equipment in the bin

Instructions for using the manual

Certificate of suitability

Applicability of local safety standards

Read, understand, and save the relevant documents of this manual.

- Battery pack safety instructions and specifications

Description of important symbols



This symbol means it can cause serious injury or death.

The operating method symbols indicate that serious injury and death can be avoided.

The operational symbols indicate that damage to property and equipment can be avoided.

Warning signs

	Danger		Remove the key during assembly, repair, and cleaning of the machine		Do not throw discarded machines in the trash bin; deliver them to the recycling department.
	To avoid accidental injury, users must read the user manual before using the machine.		Avoid touching the blade and sharp parts with hands and feet		Do not mow grass on slopes greater than 15° and uneven places.
	When using the machine, protective glasses must be worn.		Be careful of splashes from foreign objects while mowing the grass.		Do not let the machine get wet in the rain and do not store it in a damp place.
	When using the machine, stay at least 15 meters away from surrounding people.		Be careful of electric shocks.		Only after all parts have stopped working is it possible to come into contact with the machine.

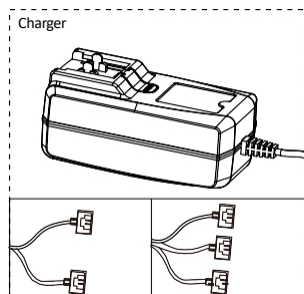
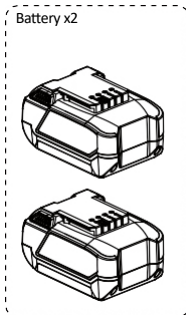
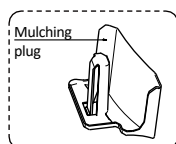
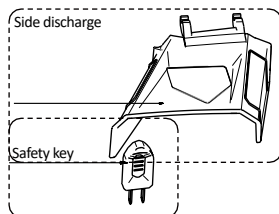
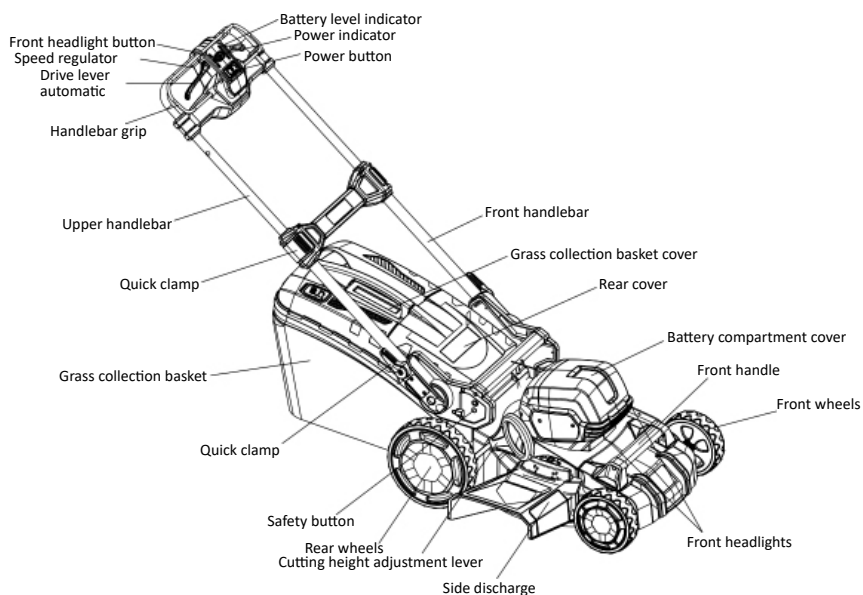
Specifications

Model	LM 22-46T
Maximum voltage	21V
Rated voltage	18V
Battery capacity	21V 5Ah×2
Speed	3600-4000RPM
Cutting diameter	18"
Rated power	750W
Maximum power	1800W
Cutting height	25-75mm
Basket volume	50L
Self-propelled speed	0.8-1.5m/s
Net weight	≈30.2kg

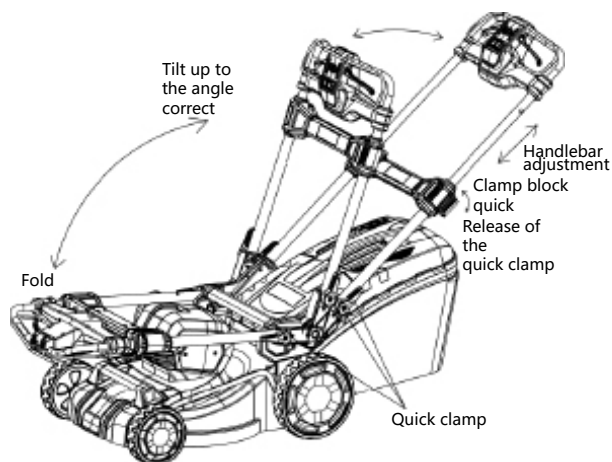
Parts list

List of parts:

1. Lawnmower
2. Grass collection basket
3. Side discharge
4. Rear block
5. Lithium battery
6. Charger
7. Safety key
8. User manual



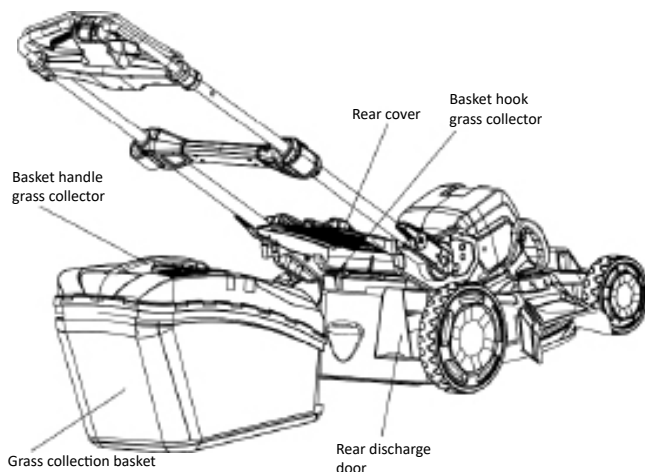
Use of the quick clamp



1. Loosen and rotate the clamps of the lower handlebar, then adjust the handlebar to the correct angle.
2. Release the clamps in the center to be able to extend the handlebar
3. Extend the upper handlebar and finally lock the central clamps so that the handlebar is firmly secured.

Note: When storing the machine, the quick clamp on the upper and lower handlebar bars can be loosened first, so that the upper and lower handlebar bars can be folded, which is convenient for storage.

Assembly of the grass collection basket

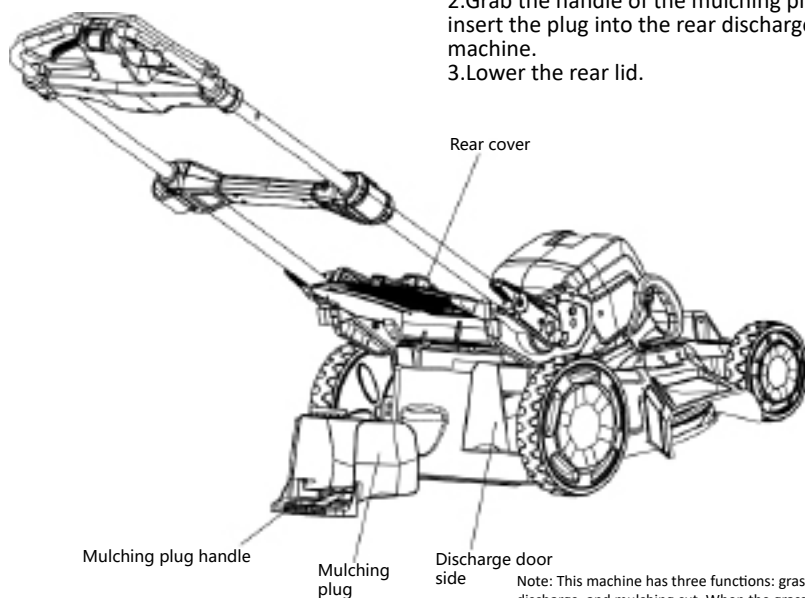


1. Open the lid rear.
2. Grab the handle of the grass collection basket and hang the hook in the slot located at the rear.
3. Lower the rear lid.

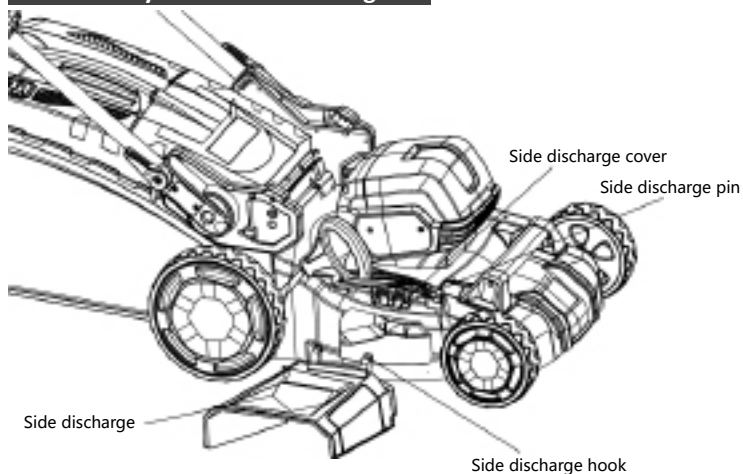
Note: Before installing the grass collection basket, remove the rear block from the rear discharge opening.

Assembly of the mulching plug

1. Open the rear lid
2. Grab the handle of the mulching plug and insert the plug into the rear discharge door of the machine.
3. Lower the rear lid.



Assembly of the side discharge



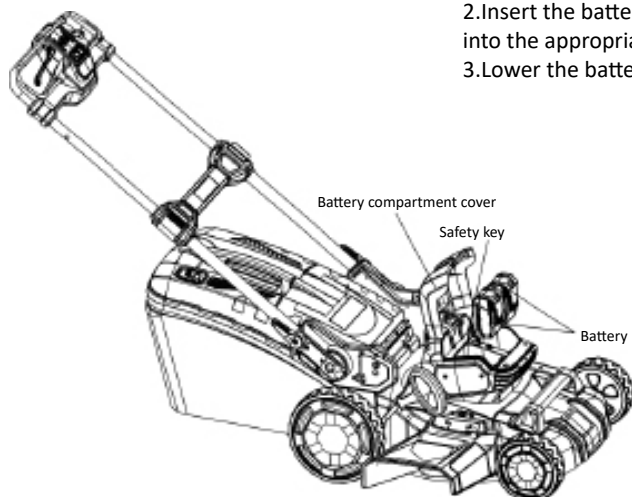
Open the side discharge cover.

Attach the side discharge hook to its proper seat.

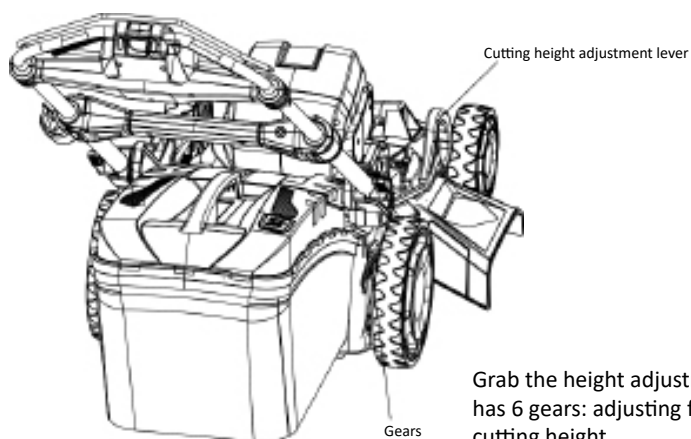
Lower the side discharge cover. Note: When the grass collection basket is removed and the mulching plug and side discharge are installed, the machine is in side discharge mode.

Battery pack assembly

1. Open the battery compartment cover.
2. Insert the battery pack. Insert the safety key into the appropriate slot.
3. Lower the battery compartment cover.



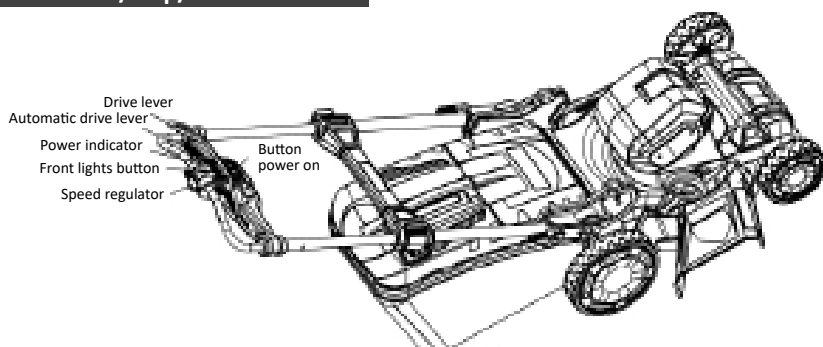
Cutting height adjustment



Grab the height adjustment lever. This machine has 6 gears: adjusting forward lowers the cutting height. Adjusting backward raises the cutting height.

Warning: When adjusting the cutting height, disconnect the key or remove the battery to avoid personal injury.

Start/stop/drive



Start the machine: Install the battery pack and the safety key. Press the power button with one hand, and with the other hand push the drive lever. Release the start button and the machine turns on.

Stopping the machine: Release the drive lever.

Warning: When the machine is not in use or is stored, remove the safety key and the battery pack.

Starting the automatic drive:

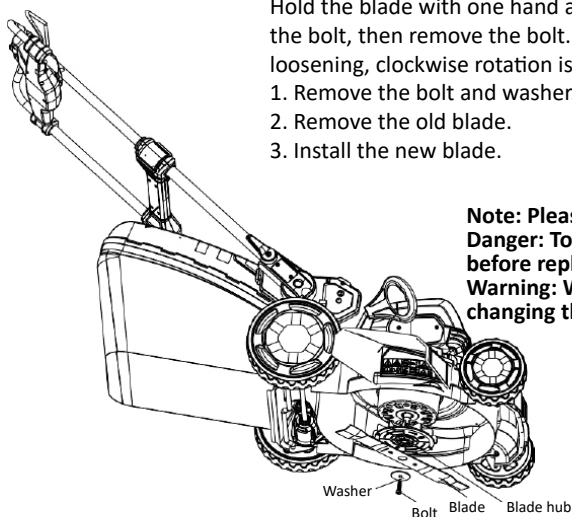
Install the battery pack and the safety key

Press the power button

Press the automatic drive lever and the machine will start to move forward.

According to the user's preference, press the speed adjustment button and the machine's travel speed can be adjusted between 0.8 m/s and 1.5 m/s. Release the "automatic drive" lever and the machine stops the automatic movement.

Blade replacement



Hold the blade with one hand and use a 13mm wrench to loosen the bolt, then remove the bolt. (counterclockwise rotation is for loosening, clockwise rotation is for tightening)

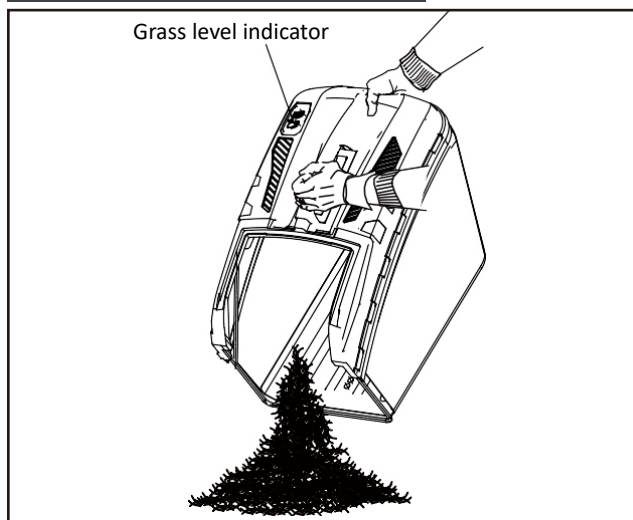
1. Remove the bolt and washer.
2. Remove the old blade.
3. Install the new blade.

Note: Please use the designated blade.

Danger: To avoid hazards, remove the battery before replacing the blade.

Warning: Wear protective gloves when changing the blade.

Empty the grass collection basket

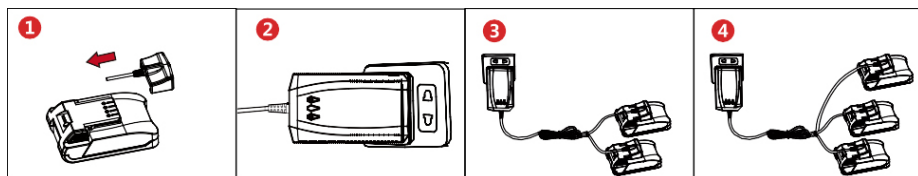


- After working for a period of time, you can open the grass collection basket capacity indicator to check the level.

Note: When the collection basket is full of grass, please empty it promptly. When the grass collection basket is damaged, replace it promptly.

Battery use and maintenance

➤ Battery charging



1. Place the battery on a flat surface and insert the battery connector, as shown in figure 1.
2. Connect the charger's power plug to the power outlet.
3. When the charger's indicator is red, it means the battery is charging; when the indicator is green, it means charging is complete.

➤ In case of malfunction, it is necessary to act according to the request code displayed on the screen. Error message:

Error message:

When using the product, if the following code appears on the screen, you can repair or handle it according to the corresponding error request.

Alarm meaning diagram				
Alarm content	Number of board flashes	Number of board calls	LCD display error	Other instructions
No malfunction	0	0	E00	
Injury prevention and protection	1	1	E01	
Current sensor error	2	6	E02	
The MOS tube is damaged.	3	6	E03	
Protection against current surges/average current	5	5	E05	
Machine blocked/stalled	6	3	E06	
Lack of phase	7	4	E07	
Undervoltage/overvoltage	8	1	E08	
MOS/chip over-temperature	9	6	E09	
EEPROM error	11	6	E11	
Phase detection failed	12	4	E12	
Programming error	13	6	E13	
Communication error between motherboard and battery pack	17	10	E17	

Note: E14: defined, protection not implemented E15: defined, serves only as a reminder, but does not implement protection, and the display emits a beep five times per minute;

Signage and safety precautions

1.1 The tool must be marked with the following rating information: Rated voltage or range of rated voltage in volts (V): For tools intended for star-delta connections, two rated voltages must be indicated (for example, 230/400V). If a tool is marked with a voltage range that meets the requirements of this section, it may also be marked with a single voltage or a lower voltage range within that range. The symbol indicating the type of power supply must be shown immediately after the rated voltage, except for three-phase tools that can also be used with single-phase power supplies. Note: Neither the rated frequency nor the range of rated frequency should be indicated.

Rated input power in watts (W) or kilowatts (kW), or rated current in amperes (A): The input power or rated current specifications indicated on the tools refer to the sum of the maximum input power or the sum of the maximum current that can flow in the external circuit simultaneously. If a component of the tool is replaceable (such as a fuse or another component selected by the control device), the rated input power or rated current will correspond to the maximum value that can occur during operation of the device with that component installed. Protection class symbols (only for class II tools): Class II tools must be marked with the symbol indicating the protection class. However, it is not necessary to indicate the ingress protection code against water (IP code) if "IPX0" is indicated, which means that there are no protections against the entry of harmful water.

If the IP code omits the first digit, it must be replaced with the letter "X" (for example, "IPX5" indicates protection against water jets).

1.2 The tool must be marked with one of the following safety warnings:



Warning - to reduce the risk of injury, the user must read the instruction manual;

ISO7010:2011 Marking M002;

Appropriate symbols:

The symbols indicated in parts 2, 3, and 4 of the relevant regulations must be used.

Warnings:

When using the word "warning", it must be written in bold characters with a minimum height of 24 mm. Furthermore, there must be no separation between the word "warning" and the aphorism (the warning message) or the graphic symbol, nor with serial number 123 of GB/T16273.1-2008.

Aphorisms:

If aphorisms (warning phrases) are used, except when indicated by the "instruction manual" in the "operation manual" or the "user guide", the text of the aphorism must be written exactly as prescribed, in the established order.

Additional symbols:

If additional symbols are used, they must comply with ISO7010 or be designed to meet the GB/T28932 or GB/T2893.3 standards.

1.3 The tool must be marked with the following additional information:

Company name and address of the manufacturer:

The company name, address, and contact details of the manufacturer or its authorized representative must be clear and easily traceable. The minimum required information includes: country, region, city, and postal code (if present). This information is sufficient to ensure that the manufacturer can be contacted.

Country of origin:

The country of origin of the product must be clearly indicated. The verification of this information can be carried out through observation and measurement.

Tool name:

The instruction manual must specify the name of the tool, for example, "electric drill" or "planer". The name of the tool can also be expressed in the form of a code.

Series name or type (model):

The name or type of the series that allows the technical identification of the product must be indicated. This may consist of letters and/or numbers, or be combined with the name of the tool.

Note:

The name or type of the series is also called "model".

Production date:

At least the production date or a manufacturer's date code identifying the year of production of the product must be indicated.

It is important that the added signals are not misleading.

Tools assembled by the end user:

For tools that are assembled by the end customer using loose parts, each part or package must be marked with a logo indicating the weight if it exceeds 25 kg (for example, "> 25 kg").

1.4 General warning on the safety of power tools

Warning!

Before using power tools, read all safety warnings, illustrations, and instructions provided.

Failure to follow these instructions may result in electric shock, injury, or serious damage.

Keep all warnings and instructions for future reference.

The term "power tools" in these warnings refers to both power tools powered by the mains (corded) and those powered by battery (cordless).

a) Workplace safety Keep the workplace clean and well lit. A cluttered or poorly lit environment can cause accidents. Do not use power tools in explosive environments. Avoid using them in the presence of flammable liquids, gases, or dust. Sparks generated by power tools could cause fires or explosions. Keep bystanders (especially children) away while using power tools. Distraction can cause loss of control over the tool and lead to accidents.

b) Electrical safety

1. The power tool's plug must match the outlet. Never modify the plug. Power tools that require grounding must not be used with adapter plugs. The use of unmodified plugs and matching outlets reduces the risk of electric shock.
2. Avoid contact with grounded surfaces (such as pipes, radiators, and refrigerators). If your body comes into contact with a grounded surface, the risk of electric shock increases.
3. Never expose power tools to rain or moisture. The entry of water into the tools significantly increases the risk of electric shock.
4. Never damage the power cord. Do not use the cord to pull, unplug, or move the tool. Keep the cord away from heat, oil, sharp edges, or moving parts. A damaged or snagged cable can increase the risk of electric shock.
5. Outdoor power tools When using power tools outdoors, always use an extension cord suitable for outdoor use. Cables designed for outdoor use reduce the risk of electric shock.
6. Use in damp environments If it is unavoidable to use power tools in damp environments, the tool must be connected to a power supply with residual current protection (RCD). The use of an RCD reduces the risk of electric shock. Note: The term "residual current device (RCD)" can be replaced with "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

c) Personal safety

1. Stay focused and alert: Pay attention to what you are doing and do not use power tools if you are tired or under the influence of substances, alcohol, or medication. Distraction can cause serious injury.
2. Wear personal protective equipment: Always wear safety goggles and, if necessary, a dust mask. Non-slip shoes, hard hats, hearing protection, and other protective equipment reduce the risk of injury.
3. Prevent accidental starting: Make sure the switch is in the off position before connecting the power supply or battery, or when handling the tool. This prevents accidental starting of the tool.
4. Remove keys and accessories before use: Never start a tool with keys or adjustment tools still attached. These objects can cause personal injury.
5. Do not overextend your hands: Pay attention to balance and body support to maintain control of the tool. This is particularly important in unforeseen situations
6. Wear appropriate clothing: Do not wear loose clothing or accessories that could get caught in moving parts. Long hair or loose clothing can get caught in the moving parts of the tool.

7. Use dust collection systems properly: If the tool has a dust collection system, make sure it is properly connected and works well. The use of the dust collector reduces the risk of injuries caused by debris.
8. Do not ignore safety guidelines: Do not become too familiar with the use of power tools. Ignoring precautions can cause serious injuries.

D) Use and precautions for power tools

1. Do not force the tool: Always use the right power tools for each purpose. Choosing the correct tool improves work efficiency and safety.
2. If the switch does not work, do not use the tool: If the tool's switch does not turn on or off properly, the tool is dangerous and must be repaired.
3. Disconnect the power before making adjustments or changing accessories: Before making any adjustments or replacing accessories, always unplug or remove the battery. This prevents accidental startup.
4. Keep tools out of the reach of children: Never leave power tools unattended in places where children can find them. Do not allow untrained people to use the tools. Power tools are dangerous in the hands of those who are not familiar with the safety instructions.
5. Maintenance of power tools and their accessories. Check if the moving parts are adjusted in position or locked, check the parts for damage and other conditions that affect the operation of power tools. If damaged, power tools must be repaired before use. Many accidents are caused by power tools in poor maintenance condition.
6. Keep the cutting tool sharp and clean. Well-maintained tools with sharp edges are not easily jammed and are easy to control.
7. Select the power tool head, accessories, and tools according to the instruction manual and consider the working conditions and the operation to be performed. The use of power tools for operations that are inconsistent with their purpose can lead to dangerous situations.
8. Keep the handle and gripping surface dry and clean, and do not stain with grease. In case of an accident, a slippery handle does not guarantee the safety of the grip and control of the tool.

1.5 Maintenance

1. Let professional maintenance personnel use the same spare parts to repair power tools. This ensures the safety of the repaired power tools.
2. Never repair a damaged battery; the battery can only be repaired by the manufacturer or its authorized maintenance service provider.
3. for battery-powered tools:
 - a. a description of the charging temperature limits of the battery pack, the use of the tool and battery pack, and storage, and the recommended charging temperature range,
 - b. for battery-powered tools that use removable battery packs or split battery packs, there is a class number, a serial number, or a serial number. Equivalently specify a description of the appropriate battery pack c, by class number, serial number, or equivalent to specify the description of the appropriate charger.



After-sales service

If you have any problems during use, please contact us in time (see the last page for contact information), we have professional staff to answer questions and problems, so that qualified maintenance personnel use the exact same spare parts to repair power tools, in order to maintain the safety performance of the product.



Declaration

The company reserves the right to make technical improvements to the products described in this manual; please understand any changes! In case of discrepancy between the graphic image and the textual description contained in this manual and the actual object, please refer to the actual object!

➤ **In case of malfunction, it is necessary to act according to the request code displayed on the screen. Error message:**

When using the product, if the following code appears on the screen, you can repair or handle it according to the corresponding error request.

Meaning of alarms		
Alarm content	LCD display error	Other description
There is a single-phase or multi-phase short circuit on the upper bridge of the BLDC drive MOS	E1	
The upper bridge of phase U of the BLDC drive MOS has an open circuit fault or the lower bridge of phase U has a short circuit.	E2	
The UV phase line of the BLDC drive MOS has an open circuit fault or the lower bridge of phase V has a short circuit.	E3	
The UW phase line of the BLDC drive MOS has an open circuit fault or the lower bridge of phase W has a short circuit.	E4	
The upper bridge of phase V of the BLDC drive MOS has an open circuit fault or the lower bridge of phase V has a short circuit.	E5	
The VW phase line of the BLDC drive MOS has an open circuit fault or the lower bridge of phase W has a short circuit.	E6	
The upper bridge of phase W of the BLDC drive MOS has an open circuit fault or the lower bridge of phase W has a short circuit.	E7	
The battery voltage is abnormal (communication transmission)	E8	
The battery temperature is abnormal (communication transmission)	E9	
Backup dispenser	E10	
The BDCM bus current has an overcurrent phenomenon	E11	
Low battery voltage	E12	
High battery voltage	E13	
BLDC has blocked the rotor phenomenon	E14	
The BLDC bus current has an overcurrent phenomenon	E15	
The BLDC bus current has a short circuit	E16	
BLDC MOS has an overtemperature phenomenon	E17	
The motor has an overtemperature phenomenon	E18	
AD acquisition is an extraordinary job	E19	
There is a forced change between the BLDC phases	E20	
The battery is connected after pressing the start switch	E21	
Backup dispenser	E22	

Backup dispenser	E23	
Backup dispenser	E24	
Backup dispenser	E25	
Hardware power-on detection error: PC error	E26	
Hardware power-on detection error: AD error	E27	
Hardware power-on detection error: watchdog reset	E28	
Hardware power-on detection error: IO register error	E29	
Hardware power-on detection error: interrupt error	E30	
Hardware power-on detection error: clock error	E31	
Hardware cycle detection error: PC error	E32	
Hardware cycle detection error: CPU error	E33	
Hardware cycle detection error: ROM error	E34	
Hardware cycle detection error: RAM error	E35	
Hardware cycle detection error: STACK overflow error	E36	
The battery is damaged;	E37	
The U/V phase of the BLDC has a short circuit	E38	
BLDC phase U/phase W has a short circuit	E39	
BLDC phase V/phase W has a short circuit	E40	
The E198 drive controller has an overvoltage phenomenon	E198	
The E199 travel controller has an undervoltage phenomenon	E199	
The communication between panel E200 and the main blade is extraordinary	E200	
The motor has an overtemperature phenomenon	Self-propelled fault	
The ENGINE ROOM is normal	Self-propelled fault	
The engine connection is normal	Self-propelled fault	

EC DECLARATION OF CONFORMITY - HERSTELLERERKLÄRUNG-DECLARATION 'CE' DE CONFORMITE - DECLARACION DE CONFORMIDAD - DICHIARAZIONE DI CONFORMITA'
EUROPEA - GELUKVORMIGHEIDSVERKLARING - 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 – PRODUCTENT – FABRICANTE – VALMISTAJA – TILLVERKARE –
FABRIKANT – Κατασκευαστής – PRODUCTENT:
Blue Bird Industries Fabbrica Motori SRL
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
MASKINERIET – ΠΕΡΙΓΡΑΦΗ ΤΩΝ ΜΗΧΑΝΩΝ – OPIS MASZYN:
RASAERBA A BATTERIA – CORDLESS LAWN MOWER

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:
LM 22-46T

2000/14/EC (2005/88/EC) – Livelli di potenza sonora come da allegato V – Sound Power Levels performed per annex V	
TIPO	Livelli di Potenza Sonora Misurata / Livelli di Potenza Sonora Garantita LWA Sound Power Levels Measured / Sound Power Level Guaranteed LWA (dB)
LM 22-46T	89 / 96

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 STANDARDEIHIN/YHTIEISIIN STANDARDEIHIN - REFERERANDE TILL STANDARDER/HARMONISERADE STANDARDER - HENVISNING TIL STANDARD/FELLES
STANDARD - ΑΝΑΦΟΡΑ ΣΕ ΠΡΟΤΥΠΑ/ΕΝΑΡΜΟΝΙΣΜΕΝΑ ΠΡΟΤΥΠΑ - ODNIESIENIE DO NORM/NORM ZHARMONIZOWANYCH:

EN 62481-1:2015/A11:2022
EN IEC 62841-4-3:2021/A11:2021

e) Il caricabatterie (mod. KH50-2102380-2E) è stato fabbricato e distribuito in conformità con le seguenti direttive: 2014/35/EU, 2014/30/UE e 2011/65/UE
The charger (mod. KH50-2102380-2E) 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. KH50-2102380-2E) wurde gemäß den folgenden Richtlinien hergestellt und vertrieben: 2014/35/EU, 2014/30/UE e 2011/65/UE
Le chargeur (mod. KH50-2102380-2E) a été fabriqué et distribué conformément aux directives suivantes: 2014/35/EU, 2014/30/UE e 2011/65/UE
El cargador (mod. KH50-2102380-2E) fue fabricado y distribuido de acuerdo con las siguientes directivas: 2014/35/EU, 2014/30/UE e 2011/65/UE

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