ELIET

USER MANUAL

Maestro Country

E-POWER



This instruction manual contains specific information on the use and maintenance of the machine. **Read them carefully and keep the leaflet in a safe place.**



Be sure to keep the **invoice and/or proof of receipt** with this notice.



Register your online purchase at **www.eliet.eu**



Caution: When commissioning a new machine, it is imperative to check that all blade bolts are properly tightened before the blades are released.
First 5 hours of operation. Otherwise, one or more blades may come off. This can cause serious and consequential damage to your new machine and can lead to serious injury or even death to the operator. ELIET accepts no liability for the consequences of such negligence, which also means that you lose any right to the warranty.

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Copyright 2025 ELIET. All rights reserved. Texts, images, graphics... contained in this manual are all protected by copyright and other intellectual property rights. None of these elements may be copied for commercial or broadcast purposes, and may not be modified or redistributed for other purposes. This ELIET notice contains certain information that is protected by the copyright laws of these providers.

1. Introduction



1.1 Thank you for reading this manual

ELIET machines are designed to operate safely and reliably as long as they are used in accordance with the instructions. Please read this instruction manual carefully before using the machine. Failure to do so may result in personal injury or property damage.

1.2 Identification data – ELIET MAESTRO COUNTRY E-POWER

Write down your machine's identification data in the boxed areas.

Article reference :	MA 001 053 801
Serial number :	
Year of manufacture :	20....

2. Warranty



2.1 Machine Registration

If you wish to benefit from the warranty, please register your machine within one month of purchase at:
www.eliet.eu / **www.elietmachines.com**

European customers :
ELIET EUROPE NV
Diesveldstraat 2
8553 Otegem
T +32(0)56 77 70 88 - **F** +32(0)56 77 52 13
Email address : service@eliet.eu,
www.eliet.eu

U.S. customers :
ELIET USA Inc.
19 E Moreland Ave
Philadelphia, PA 19118
Ph (+001) 412 367 5185
Email address : usinfo@elietusa.com
www.elietusa.com

Read the warranty conditions listed in "see 15. Warranty Conditions", page 47

3. Welcome

English

Welcome to ELIET customers

We thank you for having shown your trust in us by purchasing an ELIET machine. We are convinced that you have just bought the best machine ever. The lifespan of your ELIET machine depends on how you treat it. This instruction manual and the engine manual supplied with the machine will help you with this. By following the instructions and advice contained therein, you can be sure that your ELIET machine will serve you very well for a very long time.
We strongly recommend that you read this instruction manual carefully. This will help you avoid any mistakes that could have serious consequences.
It is also in your best interest to read the chapter on safety instructions carefully. Even if you are familiar with this type of machine, it is strongly recommended that you read this instruction manual carefully.

As ELIET is constantly improving its machines and equipment, we reserve the right to make some slight changes to the content of the delivery, both in terms of its configuration and equipment as well as in terms of the technology used. The descriptions and technical specifications given in this instruction manual are as follows:
in force at the time of publication. Some sketches, or even descriptions, may not be about the type of machine you bought but may relate to another version. Accordingly, we ask you to be understanding that we do not accept any responsibility for the texts and illustrations in this instruction notice.
If you still have questions after reading this manual, please do not hesitate to contact your ELIET dealer.

ELIET AT YOUR SERVICE

ELIET

European customers (UTC +1) : from 8h00 to 12h00 & 13h00 to 17h00

Diesveldstraat 2
8553 Otegem
Belgique

Tél. : +32 (0)56 77 70 88
Fax : +32 (0)56 77 52 13
Email address : service@eliet.eu

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5. Hazard Symbols







The symbols in this user manual provide you with further details and indicate potential hazards.

5.1 For your information



For your information:
This symbol serves to draw your attention to special information and/or manipulations or to indicate that further details on the subject matter are given in the chapters indicated.

5.2 Attention



Attention :
This symbol explains safe usage habits. This will prevent any manipulation that could cause bodily injury or property damage.

5.3 Warning

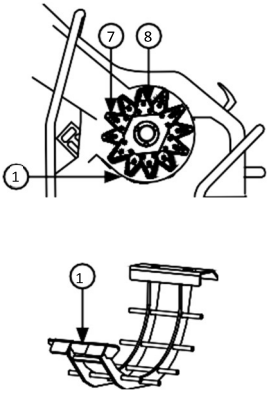


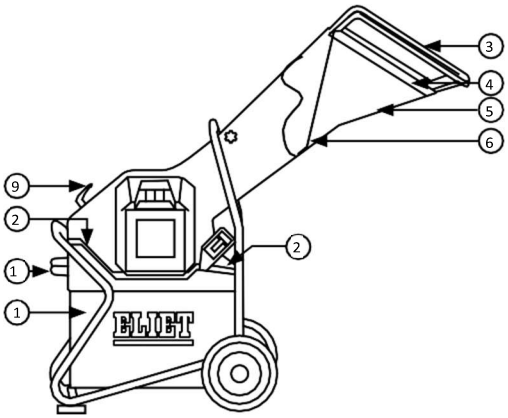
Warning :
This warning draws your attention to an imminent danger that you must take into account in certain circumstances. So be vigilant to preserve your safety.

6. Main components

To fully understand the content of this user manual, it is important to familiarize yourself with the terminology used in the explanations. This chapter reviews a number of components. It is highly recommended that you study the machine beforehand in order to understand the explanations given in this owner's manual.

6.1 Overview



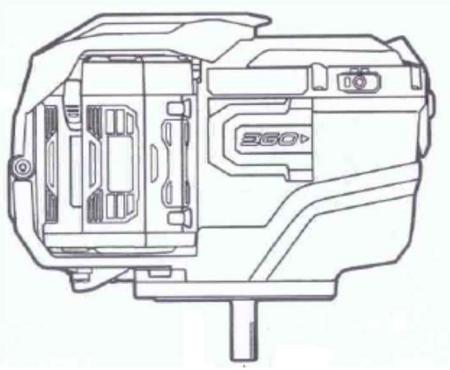


1. Collector bag
2. Translucent visor
3. Carrying handle
4. Funnel
5. Anti-Spray Deflector
6. Antispray deflector
7. Blade shaft
8. Bearing support
9. Grid locking handle
10. Handle of the collection bag
11. Calibration grid
12. Leaf sieve (optional)

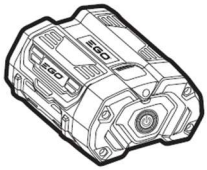
6.2 Engine

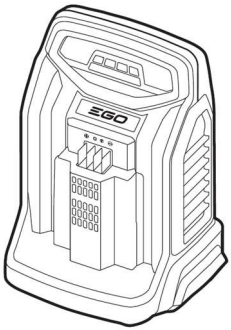
EGO PC 2700 ELECTRICAL 3200W / 56V

Battery power









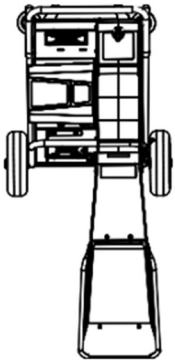


Attention :

When we talk about "left", "right", "forward" and "backward" in this manual, we mean the position of the operator behind the feed funnel.

FORWARD

LEFT



RIGHT

BACKWARD



For your information:

Your ELIET dealer is there to advise you and carry out maintenance of your machine so that it always delivers optimal performance.

You can also contact him for genuine ELIET parts and lubricants. These pieces are designed with the same craftsmanship and same precision as the original parts.



Attention :

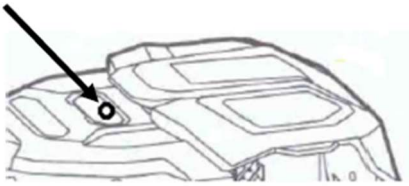
For your own safety, only use original parts on ELIET machines.

7. Safety instructions





7.1 Warning Notes.



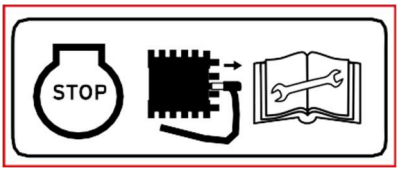
The start/stop button is located on the top of the motor, near the battery housings and has a green light when the engine is running. It is marked with the "I" sign, a universally recognized symbol of "running". The stop button is the same button whose green light turns off when the engine is stopped.



This sticker is affixed to the left side of the funnel. It includes the general safety instructions for icons:
You must have read and be familiar with this user manual before you start using the machine.
You must wear suitable protective clothing before using the machine (protective gloves, protective glasses, hearing protection). (Item number: BQ 501 020 310)



These icons are displayed on the left side of the funnel. This sticker unambiguously warns of the danger of serious hand injuries and ejection of cutting waste. It is strictly forbidden to put your hands beyond the anti-projection deflector!
(Item number: BQ 501 020 310)



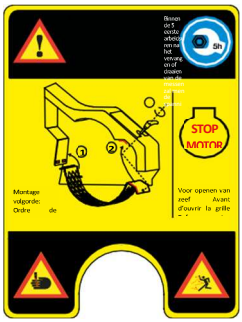
These icons are displayed on the left side of the funnel. The motor must always be turned off to service the machine Turn the switch on the engine to the OFF position. Do not leave anyone in the machine environment during maintenance. You must have read and understood the contents of this user manual before servicing the machine.
(Item number: BQ 501 020 310)



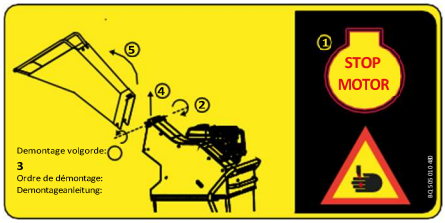
This sticker is affixed to the anti-projection deflector inside the feed opening. This sticker unambiguously indicates the danger of serious hand injuries and ejection of cutting waste. These are two closely associated risks
the grinding of chips, which are eliminated by the help of the protective screen. This sticker reminds the user how to use it in any way
shredder safety. It is strictly forbidden to put your hands beyond this anti-projection deflector! (Item number: BQ 505 010 140)



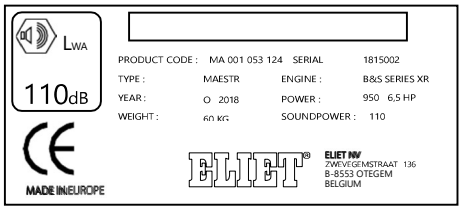
This sticker is also placed on the left side of the feed chute. The sticker reminds the user that it is important not to let third parties approach them when the machine is operating.
(Item number: BQ 501 020 310)



This sticker is affixed to the top wall of the grinding chamber. The sticker reminds the user to check the tension of the knife bolts regularly. The sticker also describes the method of mounting and disassembling the screen, and warns the user to stop the engine before opening the screen.
The sticker warns the user of the danger of hand cuts and the danger of flying chips when you disassemble the screen.
Item No.: BQ 505 010 500



This sticker is stuck on the top of the funnel. The manner and order of the disassembly of the feed chute is depicted. The chute can be dismantled for transport and for the compact storage of the machine. The sticker is a reminder
the user to stop the motor before disassembling the funnel. If the latter is disassembled, there is an increased risk of contact with the blades and serious cuts can result.
(Item number: BQ 505 010 480)

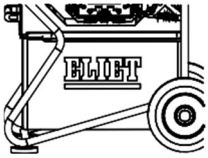


This sticker bears the machine identification label, which includes the following data:

- Year of construction
- Model
- Type number
- Serial number
- Power
- Wheight
- Guaranteed sound power level

In addition, the sticker displays the address and name of the machine manufacturer. The CE mark also indicates compliance with European directives.

7.2 Safety features



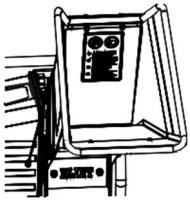
The collection bag:

The collection bag is located on the bottom of the machine. Bag removal causes the engine to shut down automatically. Thus, the collection bag prevents that the user can reach the moving knives with the hands. To ensure that the collection bag does not detach from the involuntarily of his accommodation, he is kept in his position of work with the help of a powerful magnet.



Avertissement :

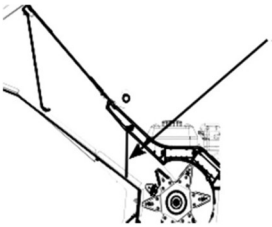
The cutting rotor continues to rotate for several seconds after the motor is stopped. Wait 15 seconds before an operation. Protect yourself from any wounds or cuts on your hands.



Anti-Spray Deflector:

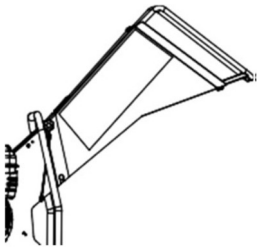
The steel sheet located inside the supply opening is designed to protect the user from the ejection of cutting waste.

It is strictly forbidden to put your hands beyond this sheet metal.



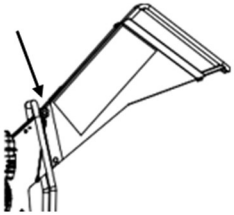
Flexible rubber anti-spray deflector:

A flexible plastic non-return valve is placed at the inlet of the grinding chamber to limit chip spatter from the grinding chamber. It is also a final obstacle against unintentional contact with the blades, and like the anti-splash deflector, it cannot completely prevent the possible projection of chips when both are lifted, for example when branches are introduced into the feed hopper.

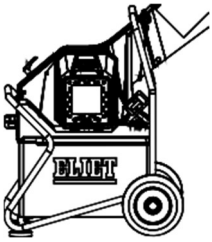


Feed hopper:

The shape of the feed hopper creates a safe distance from the danger zone and protects the operator from possible carelessness. The look of the feed hopper preserves the safety of the user and protects him from carelessness. In the event that the user were to insert his hands outside the protective shield – despite the prohibition – the shape of the funnel makes it almost impossible to access the crushing chamber, so that knife damage caused by the opening of the feed hopper is very unlikely.

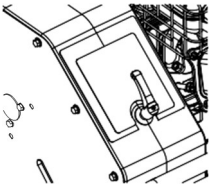


Safety switch on the feed hopper:
To be able to store the machine compactly, the feed hopper is removable. To avoid accidents when the machine is in operation, a safety switch is used which automatically stops as soon as the funnel is unscrewed. This also prevents the machine from being used without a hopper.



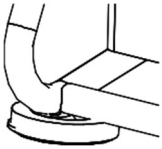
Robust structure:

The solidity of the structure is a guarantee of the resistance of ELIET machines and also offers a guarantee of safety to the user in the event of an unexpected situation.

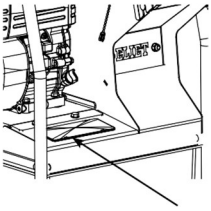


Sound absorption:

The sound-absorbing double-walled enclosure surrounding the knife shaft dampens the shredder noise, resulting in a significant reduction in noise pollution for the user and those around him.



Rubber support feet:
The rubber support feet help to absorb the vibrations emitted by the machine, and have the additional function of stabilizing and preventing the machine from moving when using slopes, for example.



Translucent visor:
In the upper part of the chassis, the presence of a visor translucent observation allows the user to control the volume at any time and safely.



Protection kit:
It is for the sake of your safety that ELIET cannot sufficiently emphasize the importance of using all the protections provided as standard. This kit includes your personal protective equipment; protective glasses, hearing protection and a pair of multi-purpose gloves.

7.3 Safety instructions

- It is the responsibility of the owner of the machine to keep this instruction manual for as long as the machine is in circulation. The user will use it as a reference book to operate and maintain the machine according to the rules of the art.
- This machine is designed to shred branches, wood pruning, leaves and all other green garden waste. It can therefore never be used for any other purpose.
- This model can shred branches with a maximum diameter of 45 mm.
- The feed hopper is not mechanically limited to this maximum diameter, so it is important to check that you are not introducing material larger than this maximum diameter.
- For your own safety, it is strictly forbidden to exceed this limit.
- Never shred frozen branches.
- Use the machine only in a stationary position, the rubber support feet and wheels should be in contact with the ground.
- The position of the operator during grinding encompasses a work area within easy reach, located in front of the feed opening.
- Never use a step stool to introduce green waste into the machine.
- The original structure of the machine cannot be changed under any circumstances.
- Never grind without a feed chute.
- When using the machine, follow all safety instructions. Read all instructions on how to use the machine carefully. All of these instructions are listed to ensure your personal safety.



Attention :
Although the maximum branch diameter is 45 mm, it should be noted that the machine was not designed to permanently accept branches with a maximum diameter of 45 mm. For your own safety, it is recommended to grind only 10% of the volume into this diameter.

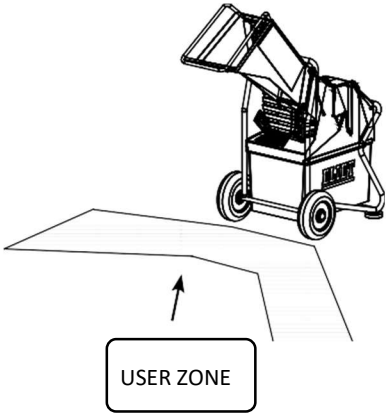
- Refer to the chapter of the Dealer Instruction Manual ('see 8. Obligations of the dealer", page 25), and check immediately whether the machine has been delivered to you in accordance with the regulations.
- When you buy the machine, ask the dealer or a competent person to explain how it works.
- Familiarize yourself with the safety messages of the adhesive labels worn on the machine.
- The user of the machine is supposed to have a certain maturity that allows him to make decisions based on common sense.
- The person working with the machine is supposed to know the safety instructions.
  It bears the full responsibility of the machine towards itself and third parties.
- The machine cannot be entrusted to a teenager aged less than 18 years old. However, this does not apply to users over the age of 16 who learn to use it under adult supervision. Children and pets should be kept away from the machine.
- ELIET advises not to lend the machine. If you do, only lend this machine to people who are familiar with using all of the machine's controls. In any case, draw their attention to the possible risks, and oblige them to read this instruction manual before use.
- Anyone who will be working with this machine must be well rested and in good physical condition. As soon as fatigue starts to be felt, you have to take a break. It is forbidden to work with the machine after consuming alcohol or under the influence of other products that disturb the mind.
- Anyone using an electronic device, such as a pacemaker, is exposed to possible interference, malfunction, or even a possible failure of their pacemaker: it is recommended that users in possession of such a device consult their doctor(s) before using the machine.
- Working with this machine requires proper clothing. That is, clothing that covers the entire body, sturdy work gloves and closed-toe shoes with non-slip soles.
- It is forbidden to wear floating clothing (scarves, for example, are strictly prohibited). If the operator has long hair, he will tie it in a ponytail and wear a cap or headband.

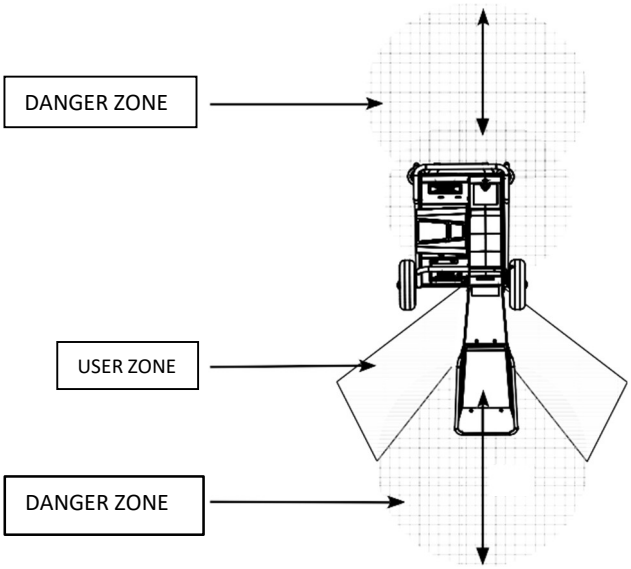


Attention :

To protect their eyes and ears, the operator should also wear protective glasses and hearing protection. Originally, each ELIET machine is supplied with a safety kit containing these protections.

- Make sure that the place where you work has a minimum light intensity of 500 lux.
- Be careful not to use the machine in an explosive atmosphere, in the presence of flammable gases, liquids or dusts; Power tools can generate sparks that can ignite dust and vapors.
- Never use the machine when it is raining or in a humid environment, avoid leaving it in the rain if it is not in use, do not spray the motor, batteries or charger with water at the possible risk of explosion. Avoid exposing the machine and its batteries unnecessarily to the weather and to continuous and intense sunlight, at the risk of electrical or electronic failure.
- Do not expose the machine to flames or near an excessive heat source, especially for parts of the engine, batteries, and battery charger that may experience defects or risk of explosion beyond 130 degrees Celsius / 266 degrees Fahrenheit.
- Avoid electrocution: Never use this machine with your feet in water or wet hands or feet. If water gets into a power tool, the risk of shock is increased.
- Do not clean the machine with water, instead clean with compressed air or a cloth.
- When the machine is in operation, make sure that no one approaches within a radius of 5 m.







Attention :

Chip spatter may occur in the "danger zone" listed above. No other people are tolerated in this zone or in the "operator zone".

- Refer to the chapter of the Dealer Instruction Manual ('see 8. Obligations of the dealer", page 25), and check immediately whether the machine has been delivered to you in accordance with the regulations.

- When you buy the machine, ask the dealer or a competent person to explain how it works.

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- Anyone who will be working with this machine must be well rested and in good physical condition. As soon as fatigue starts to set in, you should take a break. It is forbidden to work with the machine after consuming alcohol or under the influence of other products that disturb the mind.

- Anyone using an electronic device, such as a pacemaker, is exposed to possible interference, malfunction, or even a possible failure of their pacemaker: it is recommended that users in possession of such a device consult their doctor(s) before using the machine.

- Working with this machine requires proper clothing. That is, clothing that covers the entire body, sturdy work gloves and closed-toe shoes with non-slip soles.

- It is forbidden to wear floating clothing (scarves, for example, are strictly prohibited). If the operator has long hair, he will tie it in a ponytail and wear a cap or headband.



Attention :
To protect their eyes and ears, the operator should also wear protective glasses and hearing protection. ELIET originally delivers these when this machine is supplied.



Attention :
The person working with the machine is supposed to know the safety instructions. **It bears full responsibility for the machine towards itself and third parties.**

- When moving away from the machine, the operator is required to stop the machine.

- When some worn or damaged parts need to be replaced, always contact your ELIET dealer and ask them for original spare parts. Your safety depends on it.

- Have the reflex environmental protection in the use of the machine; Do not leave the machine running unnecessarily without working.

7.4 Instructions for Battery-Powered Machinery

If you have a machine equipped with an electric motor, observe the following instructions:

7.4.1. Specific to the Maestro Country E-power model

Here are the engine specifications :

Maestro Country E-DC : EGO PU 2700 56 V P : 3470 W IP : IPX5 Battery : Dual port n : 3450 t/min

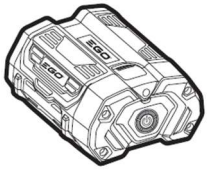
- The 56 Volt electric motor is powered by 1 or 2 Lithium-ion batteries, its support accepts the use of 2 batteries of different capacities.

- Power supply can be provided by batteries with capacities of 5Ah, 7.5 Ah, 10 Ah or 12 Ah. However, Eliet recommends the use of 2 batteries of at least 10 Ah, offering additional protection against overheating and allowing a working autonomy in optimal conditions of more than 80 minutes.

- The use of batteries with an amperage of less than 10 Ah exposes the user to a possible reduction in power and therefore performance, due to an overheating protection integrated into the motor that acts in case of intensive use, in conditions of high heat or in the presence of dull knives.

- At the time of writing this manual, Eliet distributes 2 types of batteries and 1 fast battery charger compatible with this motor. These accessories are available from any authorised dealer under the references MA 001 001 051 (5 Ah model battery), MA 001 001 050 (10 Ah model battery) and MA 001 001 050 (charger for 56V battery).

5 Ah BATTERY	10 Ah BATTERY	FAST CHARGER
MA 001 001 051	MA 001 001 052	MA 001 001 050


7.4.2. General information on the use and storage of batteries

- Do not expose the battery to flames or excessive temperatures.
  Temperatures above 130 degrees Celsius / 266 degrees Fahrenheit can cause unpredictable behavior or fire, or even a risk of explosion.

- Never immerse the batteries in any liquid and make sure that no liquid gets inside, in order to avoid short circuits and related consequences such as fire or explosion.

- Do not disassemble a battery or try to replace rechargeable batteries, these are designed to require minimal maintenance during their life, however they will eventually lose efficiency and wear out.

- The range allowed by each charge will depend on the work done.

- If not in use for more than 30 days, store the battery(ies) in a moisture-free room, away from direct sunlight and at a maximum temperature of 26 degrees Celsius / 78 degrees Fahrenheit and ensure that the charge is between 30 and 50% of the maximum charge. Also fully charge the battery(ies) every 6 months in case of prolonged non-use.

- Recharge the battery(ies) only using the original charger, the use of another charger that is not compatible or approved by the manufacturer may present a risk of short circuit or fire, as well as the use of batteries with non-dedicated tools.

- Store the battery(ies) away from any metal objects, such as keys, screws, staples, paper clips, or any other object that may create contact between the terminals, which may cause short circuits and cause burns or fire.

- With excessive use, liquid may leak from the battery and cause irritation and burning if in contact with the skin or eyes. Avoid contact with this liquid and if not, consult a doctor.

- Do not remove a battery from its original packaging before starting to use it, and do not subject it to mechanical shocks, avoid dropping them at the risk of deterioration; A damaged battery can explode.

- store batteries out of the reach of children.

- **After an extended storage period, the battery(ies) may require several charge/discharge cycles to regain their optimal performance. This optimal performance is established at a normal ambient temperature (20 degrees Celsius / 68 degrés Fahrenheit).**

  If the machine is not in use, take care to disconnect the battery(ies).
  Please refer to the battery manufacturer's manual for more information.

7.4.3. Specific for the disposal of worn or damaged batteries

- Do not dispose of rechargeable batteries/accumulators, battery chargers with household waste.
- When disposing of rechargeable batteries/accumulators, cover the contacts with thick adhesive protective tape.
- Do not attempt to disassemble a battery or extract any of its components.
- Never touch the contacts with your fingers/hands or any other part of your body, there is a risk of causing a short circuit.
- In accordance with the European Directive 2012/19/EU, electrical and electronic equipment that is no longer usable, and in accordance with the European Directive 2006/66/EC, used or defective rechargeable batteries and accumulators must be collected separately and disposed of in an environmentally responsible manner.
- Contact your local waste management agency for information about existing disposal and/or recycling options.

7.4.4. Specific to battery transport

- Batteries contain substances whose products are classified as hazardous in accordance with Regulation (EC) No 1272/2008, and any future amendments thereto.
- Transport by users: always transport in packaging that is suitable, suitable and safe. Ensure that persons transporting the product are aware of the actions to be taken in the event of an accident or accidental spill.
- Transport by professional delivery companies: The transport of Li-Ion batteries is governed by ADR (UN UN UN 3480) standards and requires, among other things, special and individual packaging, apart from other goods. Li-Ion batteries contain corrosive substances.
- Safety data sheets for the batteries used on this machine are available from the original manufacturer.

7.4.5. Specific to the use and care of the battery charger

- Never use an extension cable longer than 20 m.
- The plug connected to the charger must match the version supplied to the following specifications:

Germany, Belgium, Netherlands, France, Italy, Spain, Austria : Type E & F CEE "7" (female)
UK : Type G BS 1363 (female)
Switzerland : Type J SEV 1011 (female)

- Please insert the correct plug into the socket, do not modify the socket or connection plug in any way.
- Do not use a damaged charger or battery.
- Have your charger and/or batteries repaired by a qualified repairer who should only use spare parts identical to the original, this guarantees the safety of the charger and batteries.
- Observe all charging instructions and only charge the batteries within the temperature ranges specified in the instructions.
- Use only the charger recommended by the manufacturer.
- Do not use solvents to clean the various plastic parts. Use dry, clean cloths to remove any dirt, dust, grease and other damage.
- The same applies to plastic parts, which must never come into contact with brake oil, petrol, penetrating agents and other petroleum-based products. These substances can weaken and damage plastic parts, and lead to personal injury.
- It is best to unplug the charger and remove the battery(ies) when not in use.



Attention :

Do not clean the machine with water or any other liquid material.

Prefer dry cleaning (e.g. with compressed air).

8. Obligations of the dealer





Warning:

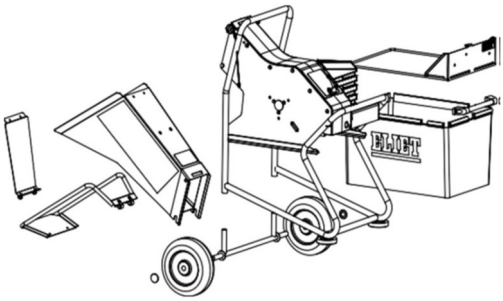
As an ELIET dealer, it is your duty to explain to your customers how the machine works and also to point out the potential dangers inherent in using the machine.

Carefully list all the maintenance points of the machine to the new owner. Repeat these explanations until the new owner has fully understood them.

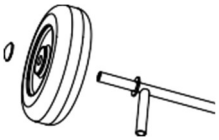
Special note: The customer must be informed quite expressly of the following: After the first 5 hours of use, the knife bolts must be tightened.

When it is delivered, the machine is not fully assembled. This assembly is the responsibility of the dealer.

When unpacking, you'll find the following:



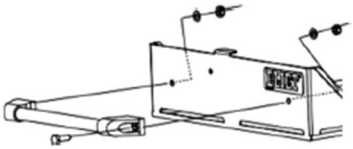
- Machine
- Introduction Funnel
- Two wheels
- Whell support
- Collecting bag
- Bag containing the fixing kit
- Skid plate
- Personal protective equipment package
- Instruction manual



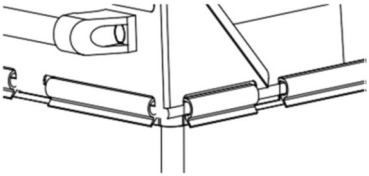
- ComStart by mounting the wheels on the wheel rack. Prop them up using the "starlock" fixing rings contained in the plastic bag. Apply a light coat of lubricating grease (Sunoco Multipurpose LR-EP2) to the trees beforehand.



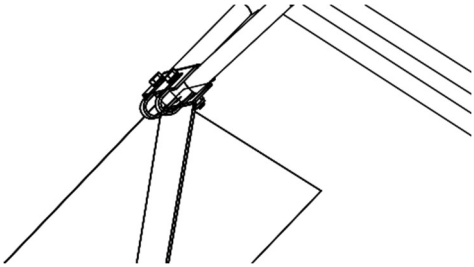
- Then, slide the wheel holder into the machine frame. Present it as evenly as possible until the frame tubes fit completely into place on the vertical ends of the wheel support. The wheel holder can be fixed in this position either by an M8 bolt to be screwed into the base of the tube on the right side or by connecting it using a quick coupler provided.



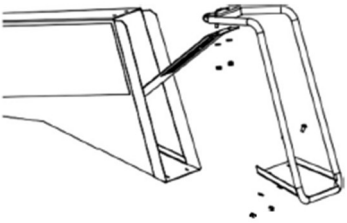
- The handle of the collection bag must be assembled. Insert the plastic brackets on each side of the tube. The handle must be firmly bolted to the chassis using the nuts and screws provided. (2xM6 - SLW10 – 3/8 »)



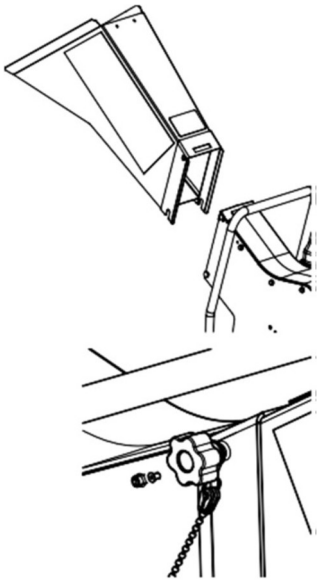
- Attach the drip bag cloth using the retaining clips to the drip bag frame, which interlocks into the machine by sliding into the grooves in the machine frame.



- To mount the handle to the funnel, insert the screws from above into the vibration dampers and screw the skid plate into the bottom of the dampers.
- To prevent the skid plate from falling into the grinding chamber due to deterioration of the shock absorbers, place a nylon retaining tab behind each screw. (See diagram below)



- Place the handle in the funnel so that the holes match the funnel mounting holes. Put the M6 screws with a flat washer into the holes. Slide the nylon retaining tab over the screw at the bottom, and screw the rubber damper onto the screw until it crushes the handle against the funnel.



- Then tighten the screw (wrench of 10 – 3/8”). Thus, the two vibration dampers are attached. Then insert the splash plate (make sure the nylon retaining tab is placed between the shock absorber and the spray plate). Screw the lock nuts (M6) with a flat washer onto the shock absorber. Tighten it tightly. (wrench of 10 – 3/8”)

After inserting the wheel support on the chassis, proceed with the installation of the feed chute. To do this, the funnel is slipped into the two side grooves of the machine. Make sure the funnel is positioned in the bottom of these two notches.

- Make sure that the rectangular flared portion on the top of the funnel evenly conforms to the rectangular edge on the top of the chassis. This will keep the funnel in position. The two wing screws (crimped in chains riveted to the frame) can now be screwed on each side of the funnel so as to lock this assembly firmly. Before attaching the screws, apply some grease to the thread of the screw.



Warning:
It is imperative to place the funnel on the chassis and fix it firmly with the two wing screws. A safety device on the machine will prevent its operation if this operation is not duly respected.

9. User Manual



9.1 Due diligence



Warning:
Before starting to work with the machine, please read this check-list.

Checklist

1. Check the state of wear and make sure that the knives are tightened correctly. If the knife should be sharpened, you should do so in the first place. If you spot cracks or cracks in a knife, you should replace it immediately ("see 11.3.2 Routine Blade Checks", page 37).
2. Make sure that the screen screen under the grinding chamber is properly mounted and securely attached ("see 16.3 Assembling and Disassembling the Blade Shaft", page 58).
3. Test the machine's safety devices for proper operation ("see 7.2 Safety Devices", page 14).

When these points are checked and approved, you can prepare the work area ("see 9.2 Preparation of the work area", page 29) and go there with the machine.

9.2 Preparing the work area

- The work area must first be clear. In addition, the access roads to green waste must be duly cleared beforehand to prevent the operator from tripping over any obstacle. Once again, your safety is at stake.
- It is forbidden to operate the machine on sloping terrain (lateral, uphill or downhill).
- The waste to be shredded must be sorted beforehand. This will ensure that the waste to be shredded does not contain any foreign objects that could enter the machine.
- By foreign objects, we mean: anything that is not organic (e.g., metal, stones, plastic, PVC, rope, etc.), as well as organic materials with a diameter greater than the recommended diameter. These objects can not only seriously damage the machine, but also be thrown and seriously injure the operator.
- Install the machine so that the wind does not blow the dust produced by the shredder back to the engine.

9.3 Working with the machine

9.3.1 Before starting the Works

- The operator shall wear the protective clothing, gloves and other safety accessories as recommended in this instruction manual ("see 7.3 Safety Instructions", page 16).
- A good gardener makes a schedule and works systematically. This approach allows him to have a good overview and to avoid false maneuvers.
- Before shredding is carried out, the waste to be shredding should be systematically sorted: large branches, small branches, leaves and anything that is wet. Also, make sure they don't contain any foreign bodies.
- Only start the engine where you plan to grind.



Attention :

Once the engine is started, the knives are rotated, resulting in the irrevocable crushing of everything that is fed into the feed chute.

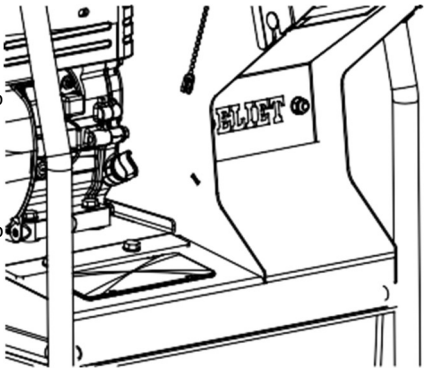
9.3.2 During work

- This work requires sustained attention. So don't let yourself be distracted when the machine is running.
- When you put the waste to be shredded into the feed funnel, hold it firmly. These are driven into the machine by the rotation of the knives. If you let go of them, they will rush too quickly into the machine which, inevitably, will block.
- It is up to you to determine the rate at which the waste to be shredded is introduced by holding or releasing your catch. This rate of introduction is conditioned by the caliber of the waste to be shredded and the hardness of the waste.



Attention :
When introducing branches, you are strictly forbidden to insert your hands beyond the protective steel screen. Keeping the protective screen raised exposes you to possible injury from possible chip projection.

- When you are called upon to grind mainly wet leaves or plants, the standard sieve may become clogged. ELIET remedies this state of affairs by offering you a sieve particularly suitable for wet plants. This sieve is also available from your ELIET dealer. (**Article number: MA 001 052 001**)
- If the pile of leaves you have to grind is small, the standard sieve may be sufficient. If necessary, it is advisable to alternate leaves with branches. The wood chips will then limit the jamming of the original sieve meshes.
- Since the wood chips are collected in a collection bag, check at regular intervals that there is no obstruction of the clearance by the chip pile below the machine. The translucent light on the back of the chassis can be used to monitor the filling status of the collection bag.
- When the collection bag is not completely filled, shake it so that it fills more evenly.
- If you notice that despite the prior sorting of the waste to be shredded, a foreign body has entered the machine,
- Stop the engine immediately. Remove it and make sure it hasn't damaged the machine. In this case, make the necessary repairs first.



- The engine should in principle stop spontaneously as soon as
- You remove the collection bag. However, if a problem in the electrical system prevents you from shutting it down, turn off the machine immediately and do not work with it until the cause of the anomaly is eliminated.

REMOVAL OF THE COLLECTION BAG = ENGINE SHUTDOWN

In principle, the motor stops if the feed funnel is loosened. If this is not the case, the operator will manually turn off the machine with the motor switch. He will immediately replace the defective switch, before resuming work with the machine.

REMOVAL OF THE FEED FUNNEL = ENGINE SHUTDOWN

9.4 Empty the collection bag

- Make sure that the level of the cutting waste contained in the collection bag never touches the bottom of the machine; In this case, empty it immediately.
- To do this, systematically stop the motor (otherwise, the machine will automatically stop when the collection bag is removed).
- If you fail to empty the collection bag regularly, the shredding chamber will fill up and the machine will stop by itself (see 9.5 "In the event of an engine stop", page 32).



Attention :
If a jam occurs, overheating can occur, leading to the possibility of fire.



Warning:
Don't underestimate the heavy weight of the collection bag once filled. Hold the collection bag as close as possible to it and lift it up with the action of your thighs/buttocks. You should never overestimate your strength. The mere movement of a load that is too heavy by a few centimetres can lead to serious bodily injury. It is recommended to get help from someone when the load is too great.

The collection bag has a capacity of 80 L.

- Either you empty the contents of the collection bag into a wheelbarrow or simply drop it into a wheelbarrow to take it to the place where you intend to unload the waste.
- Or better, let the machine transport the filled collection bag to the chosen place to unload the waste.
- Before putting the collection bag back in place, remove any residue that may be in the bag and on the frame supports.
- To put the collection bag back in place, make the frame rest on both sides in the guides, slide it evenly and horizontally into the guides of the machine frame.

9.5 In the event of an engine shutdown

The motor may stop in the event of overloading, excessive wood flow, jamming, or when a battery runs out. In these cases, the shredder can easily be restarted. Follow these steps:

1. Check that the battery(ies) still have enough power.
2. If not, please refer to "16.5.5 (Information on battery operation"), page 65.
3. Remove the branches engaged in the feed opening.

Make sure that the grinding chamber is not filled and that no residue is present.



Attention :
You should always wear gloves for any maintenance. When you empty the grinding chamber, you brush against the blades. The latter are extremely sharp and there is therefore a real risk of cuts. Be careful and try to avoid contact.

- If necessary, empty the grinding chamber to make it easier to restart the machine. Open the grinding chamber according to the procedure described "see 16.2.1 Opening the grinding chamber", page 57.
- Check if the motor overload/overheat protection has not engaged. In the event of motor overload, the overload/overheat protection automatically triggers the on/off button. See 16.5.1 ("Backlit On/Off Push Button Display"), page 61. The on/off button may have been pressed inadvertently.
- Check the indications on the battery(s) indicator lights (see 16.5.4 "Backlit display of battery(ies)", page 67.
- Just try pressing the on/off button again.
- If the motor produces an abnormal noise, the blade shaft may be blocked by shredder waste. You should try to find the cause of the problem or contact your authorized ELIET dealer.
- If nothing happens when you press the on/off button and the engine doesn't seem to want to start, it may mean that one of the safety switches has tripped. Make sure the collection bag is securely in place and the funnel elements are properly assembled. If the machine still does not start after you have checked these two points, consult your authorized ELIET dealer. (find your nearest ELIET authorized dealer at **www.eliet.eu**)

When introducing goods into the machine, proceed more carefully to prevent the shredder from jamming again. If you notice a strange noise right after starting, stop the machine immediately to avoid damaging it. Turn off the engine and investigate the cause of the malfunction. Before proceeding, make the necessary repairs.

9.6 Cleaning the machine

By not cleaning the machine, you risk it wearing out faster. A machine that is no longer functioning optimally can jeopardize the safety of the user.

Failing to clean the machine results that...

1. Bearings wear out faster
2. Seals wear out faster
3. Cooling is less
4. Increased risk of short circuit
5. The machine may overheat
6. You can't see any breaks or tears
7. Paint corrodes
8. Labels become illegible

- So every time you've worked with the machine, take the time to clean it. Cleaning the machine can also be considered as a visual check. This makes it possible to identify any cracks, cracks or lubricant in good time.

Here are the specific points to pay attention to:

- The motor should not be clogged with dust and dirt.
- The bearing and bearings must be free of dust and dirt that is stuck in the oil and grease. Once cleaned, lubricate them again (see the list of lubricants, "see 11.3 Checks before each work session", page 37).
- Clean the frame with a dry cloth. Especially in places where there are stickers with warning remarks.
- When a sticker with warning remarks is no longer legible, replace it. Original stickers are available from your ELIET dealer.



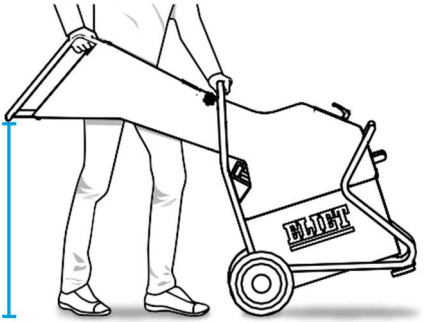
Attention :
Wear suitable clothing to clean. Gloves must be worn.

- To clean, use a dry cloth, a soft brush, ... To remove grease and lubricant, use penetrating oil containing molybdenum disulfide (MoS2) aerosol spray. This oil is not only lubricating, but also dissolves rust. (Do not use cleaning products that attack paint or stickers.)
- Cleaning the machine with water and high pressure is strongly discouraged by ELIET. Water is the main cause of rust, which is why contact with water should be avoided. Problems arise when water sprayed under high pressure enters areas that are normally protected from moisture (e.g., bearings, electrical components, seals, etc.).

10. Machine transport



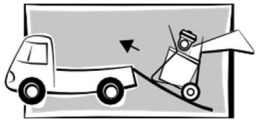
- To move the machine, the grinding chamber must be empty. It is essential that all branches are removed from the funnel and the supply opening.
- If the machine needs to be moved a longer distance (> 2 m), the engine should be stopped.
- The working position of the machine may be stationary. This means that the wheels and support legs all rest nicely on the floor. To transport the machine, tilt it to the transport position as shown in the illustration below. To do this, pull the machine toward you while grasping the feed funnel handle, and tilt it down while rotating it around its wheels. (The feed funnel handle should be +/- 70 cm from the ground).



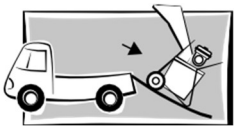
- Then, take the upper tube of the chassis with your left hand while holding the handle at the level of the feed funnel with your right hand. This allows you to move the machine forward or backward better.
- This machine can only be moved and transported by adult people.
- During transport, children, animals and unauthorized persons must not be present within a radius of 5 m.
- The funnel can be dismantled for easier transport of the machine in a car (see 'see 16.4 Disassembly of the funnel', page 60).
- To remove the wheel support from the chassis, lift the machine to a height of about 15 cm and press the wheel holder with one foot so that it is dislodged from the chassis. (Make sure the wheel mount is loose on the bottom right.
- Choose your route wisely to meet a minimum of obstacles. Opt for a flat, uneven path.

- To load the machine into a van or trailer, use non-slip ramps. Make sure they are securely attached to the vehicle or trailer.
- Make sure the vehicle's parking brake is engaged before loading.
- The slope may not exceed 25° under any circumstances.
- When loading the machine, act with caution and caution to prevent the machine from tipping over and causing an accident.
- If for any reason your machine should tip over, straighten it out as soon as possible.

- To mount, push the machine forward.



- To go down, go backwards with the machine.



- During the journey, the machine will be securely fixed in the vehicle. Use the chassis tubes to attach the lashing ropes or straps.
- Be careful not to overload the vehicle. "See 13. Technical sheet", page 52 to find out the exact weight of the machine.
- The maximum degree of lateral inclination allowed is 10°.

11. Maintenance



11.1 General



For your information:
Your dealer's staff is at your complete disposal. The ELIET dealer can count on ELIET's support at any time in order to find, together, a solution to your possible problems.



Attention :
For repairs, use only original ELIET spare parts. These are designed to meet the same quality requirements as the original parts.

For your own safety, ELIET recommends that you only use original parts.
All maintenance must take place in a room specially provided for this purpose. This room must be:

- Spacious
- Easily accessible
- Well lit
- Dust-free
- Well organized
- Sheltered from the comings and goings

Compliance with these criteria must allow maintenance to be carried out in optimal conditions.



Attention :
Negligence during maintenance may jeopardize the operator's safety later on.

- Any maintenance work involves the engine being stopped.
- All maintenance involves wearing protective gloves or even protective glasses. ELIET supplies this machine with this equipment.

TIP :

The maintenance work described below can in principle be carried out by anyone with the necessary technical knowledge. However, ELIET advises you to take your machine to the dealer once a year for major maintenance.

Your ELIET dealer is always there to service your machine and advise you. It also has original spare parts and lubricants recommended. Its staff can call on the ELIET at any time and thus offer you impeccable after-sales service.

11.2 Maintenance schedule

11.2.1 Routine check-up before each work session:

- Visual inspection (see 11.3.1 Visual inspection, page 37).
- Routine control of knives ("see 11.3.2 Routine inspection of blades"), page 37.
- Sharpening knives (see 11.3.3 Sharpening blades, page 39).
- Visual inspection of the condition of the engine air filter ("see 11.3.6 Cleaning the air filter", page 51).

11.2.2 Maintenance after 20 hours of work :

- Turning and replacing the blades ("see 11.3.4 Turning and replacing the blades", page 42).
- Cleaning the machine (see 9.6 Cleaning the machine, page 33).
- General lubrication (see 11.3.5 General lubrication, page 49).
- Cleaning the engine air filter ("see 11.3.6 Cleaning the air filter", page 51).

Recommended lubricants:

Bearings	NOVATIO PTFE OIL / PENETRATING OIL based on MoS2
Axles	SUNOCO VET MULTI-PURPOSE LR - EP2

11.3 Checks before each work session

11.3.1 Visual Checks:

Vérifiez si les pièces ne sont pas déformées ou si les soudures ne sont pas fissurées et si les pièces ne présentent pas un jeu trop important. Si vous constatez des problèmes, effectuez d'abord les travaux de réparation qui s'imposent.

11.3.2 Checking blades routines:

The machine's throughput and speed of grinding depend largely on the condition of the blades. You can improve your working comfort by taking the time to check and possibly sharpen the blades before each work session.

SHARP BLADES = MAXIMUM PERFORMANCE

For each maintenance, you must stop the engine.

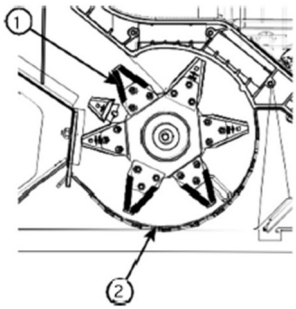


Warning:
The blades continue to rotate for a few seconds after the engine has been shut down.
Always make sure that the blade shaft is immobilized.

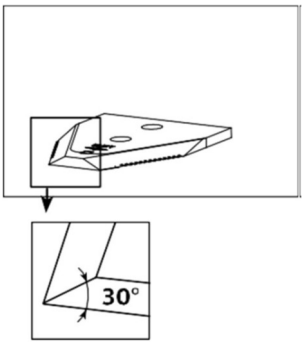


Attention :
Always wear gloves: the blades can be very sharp.

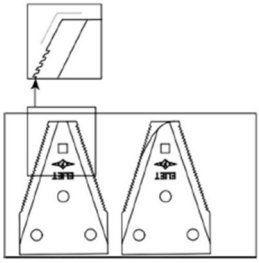
Open the grinding chamber ("see 16.2 Opening and closing the grinding chamber", page 60).



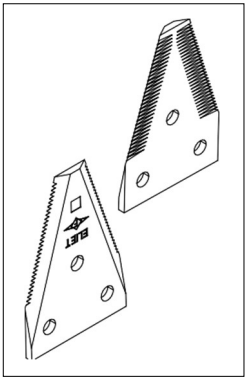
What to look out for ?
The actual shredding of green waste in the ELIET shredding system takes place in two stages. There is a first contact of the blades with the green waste during chopping at the height of the anvil. During this **primary cutting (1),** the wood and leaves are cut into large, coarse and irregular chips. These large chips are then sent to the grinding chamber where they are finely chopped into small chips. This **secondary cutting (2)** continues until the chips are small enough to pass through the mesh of the grading screen. Each of these two cuts requires the blades to have their own characteristics for optimal grinding efficiency:



A) For primary cutting, it is above all the tip of the blades that is important. Since the blades are used for splitting, the cutting angle is decisive because it forms the wedge that is driven into the wood. The cutting angle of the cutting edge of the blades will preferably be 30°. The sharper the cutting area, the less the wood will resist splitting and the less impact the impact will have on the machine. This allows for a significant reduction in vibration and noise. This also protects the blade shaft and the bearings. To maintain an optimal cutting angle, the blades should be sharpened at regular intervals ("see 11.3.3 Sharpening the blades", page 39).



On the other hand, the shape of the blade tip is also of primary importance for the yield and speed of this primary cutting. The angle of the **blade tip** determines how the wood is driven into the shredding chamber. The blades must be turned over or replaced if the tip has become rounded due to wear ("see 11.3.4 Turning over and replacing the crusher blades", page 42).



B) In secondary cutting, the aim is to eject the chips from the grinding chamber as quickly as possible. They must therefore be quickly reduced so that they are small enough to fit through the mesh of the calibration screen. The chips must therefore become smaller with each contact with the edge of a blade. **The sharper the active edge**, the more efficient the grinding will be.
It is therefore essential to sharpen the blades regularly.
The **teeth of the cutting edge** increase the cutting power of the blades and the edge to stay sharp for longer. When maintaining, it is therefore essential never to sharpen the teeth of the blades ("see 11.3.3 Sharpening the blades", page 39).
The positioning of the blades on the blade shaft was carefully chosen to allow alternating shear during primary cutting and correct chip routing in the grinding chamber during secondary cutting. Therefore, it is also important to always ensure that the original configuration is maintained when turning over or replacing the blades. ('see 11.3.4 Turning over and replacing the blades'), page 42.

11.3.3 Sharpening the blades



Careful and timely (re)sharpening extends the hold and service life of the blades. (ELIET recommends sharpening the blades at least every 10 hours of use).

Advance warnings

- Always wear protective eyewear and hearing protection when sharpening blades. Gloves must also be worn during any maintenance work.
- NEVER rotate the blade shaft by gripping it directly with your hands. Take a tool to rotate it.
- Each blade has two cutting edges (reversible blade). This means that, when sharpening, you need to take into account that the other edge of the blade can still be very sharp.

Open the grinding chamber ("see 16.2 Opening and closing the grinding chamber", page 57).

- The blade shaft is removed from the machine for sharpening the blades ("see 16.3 Assembling and disassembling the blade shaft", page 58).
- For safety reasons, the blade shaft should be securely fixed (e.g. in a vise). This will prevent it from accidentally rotating, turning or falling during maintenance, which could injure someone.



For information:
The blades can be sharpened without having to be disassembled.
For this work, you can make a small angle grinder with a disc suitable for metal.

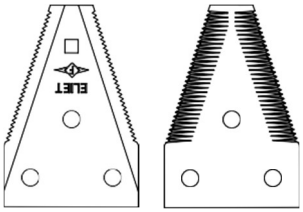




Attention :
Heated to red burrs are projected during the grinding of the blades.
These can cause a fire. Take this into account when choosing where to work.
Never sharpen blades near fuel or flammable products.
Have a fire extinguisher on hand.

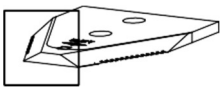
Each blade has two sides:

- The front side of the blade has two beveled cutting edges. **(F)**
- On the back, the tooth profile of the cutting area is clearly visible. **(B)**



F **B**

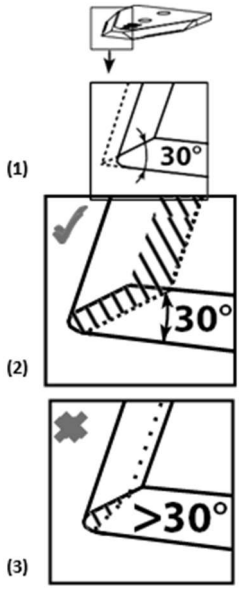
As described in section 11.3.2 "Routine blade check", page 37, a sharp edge and a correct cutting angle are essential for efficient shredding.
The blades must be sharpened properly for these two characteristics to be met.



- When the blades become blunt, their sharp edge wears away and takes the form of a wider groove. **(1)**
- By grinding a little metal from the cutting edge, you remove that wide flute and make it a sharp edge. **(2)**
- To do this, sharpen along the beveled edge.

Note:
Regular blade sharpening reduces the amount of metal you will have to sharpen in order to get a new sharp edge. The sharpening operation will then be very short and will offer a perfect edge every time. (ELIET recommends sharpening the blades every 10 hours of use.)

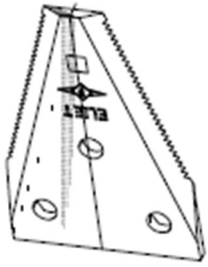
- Avoid grinding for too long in the same place. This will prevent local discoloration of the boards, which would indicate overheating and a change in the structure of the material (and its hardness) in this area.
- It is essential not to change the existing cutting angle when sharpening. **(3: Blade not sharpened)**



If the cutting angle is not respected by grinding a blunt angle **(4)** or an interrupted cutting angle **(5),** the blades will be slowed down by slicing the wood and the machine will lose power. A cutting angle that is too sharp **(6.7)** will create a weakened cutting edge, which will significantly reduce the hold of the blades.

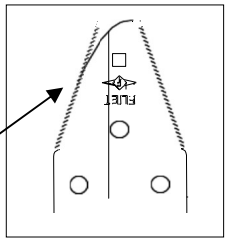


(4) **(5)** **(6)** **(7)**



- Never sharpen the back of the blade. On the RESIST/6TM slats, the profile is located at the back. If you sharpen the teeth, the blade loses a lot of its cutting power.
- It is the tip of the blades that is most stressed during grinding. It is therefore necessary to limit sharpening to what is strictly necessary to avoid its weakening.
- With each sharpening, a little material is removed, which reduces the edge active. The cutting edge can be sharpened up to half the width of the blade tip. If you exceed this limit, you will jeopardize the hold of the unused cutting edge.
- At this point, it is recommended that the blades be turned over ("see 11.3.4 Turning over and replacing the shredder blades", page 42).
- A rounded blade tip means less efficiency when grinding.
- It makes no sense to continue sharpening, and it is high time to return or replace the blades. (see 11.3.4 Turning over and replacing the crusher blades, page 42).

- After sharpening the blades, replace the blade shaft in the machine ("see 16.3 Mounting and dismantling of the blade shaft", page 58).
- After sharpening, carefully close the grinding chamber ("see 16.2 Opening and closing the grinding chamber", page 60).



11.3.4 Flipping and replacing blades

If the blades are regularly sharpened, Eliet guarantees more than 50 hours of service per cutting edge. As soon as an edge is worn, each blade can be turned over. Its new edge can in turn be used for 50 hours. When both cutting edges are worn, the affected blade must be replaced.



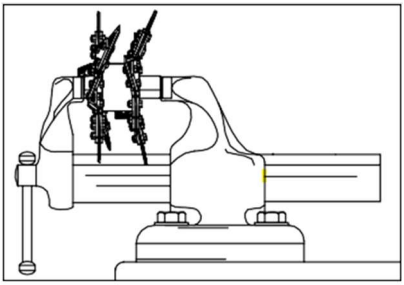
Attention :
All applicable warranties will be null and void in the event of damage and damage resulting from improper maintenance of the blades. If necessary, consult your authorized ELIET distributor for advice.

11.3.4.1 Instructions for turning the blades

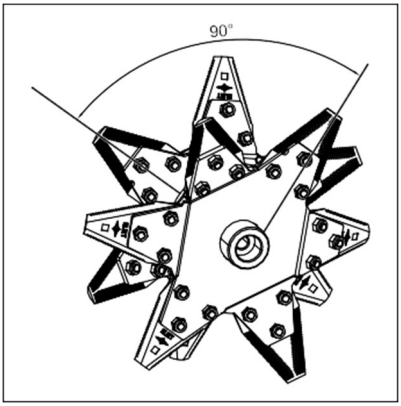


Caution:
The blades continue to rotate for a few seconds after the engine has been shut down. Always make sure the blade shaft is immobilized.

- Open the grinding chamber ("see 16.2 Opening and Closing the Grinding Chamber", page 57).
- The blade shaft will be dismantled to sharpen the blades.
- For safety reasons, the blade shaft should be securely secured (e.g. in a vise. This will prevent it from swivelling, turning, or accidentally falling during maintenance, which could injure someone.

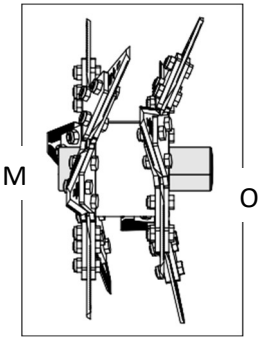


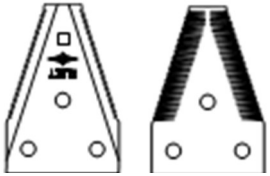
There are certain rules to follow when returning or replacing the blades. To understand the logic of the rules, let's first take a detailed look at the composition of a blade shaft:



- A Maestro Country blade shaft consists of two identical blade discs, each with 6 blades.
- Even though they are identical, the two blade discs are offset 90° around the central axis.
- The two blade discs are welded on the central axis. This axis is not symmetrical with respect to the volume of the two blade discs:
- On one side there is a long section of axis projecting and pierced by a large boring intended to fit on the motor shaft: we will henceforth call this side **motor side (M)** of the blade shaft.
- On the other side, we find a short protruding axle section. At the end of the hole is a cylindrical housing with a small hole (10 mm in diameter) in the centre and threaded (M10). For convenience, we will now refer to this side as the **attachment side (O)** of the blade shaft.
- It should also be noted that each blade has two cutting edges.

Front (F): The beveled side or edge is visible.
Back (B): The side where the tooth profile is clearly visible.

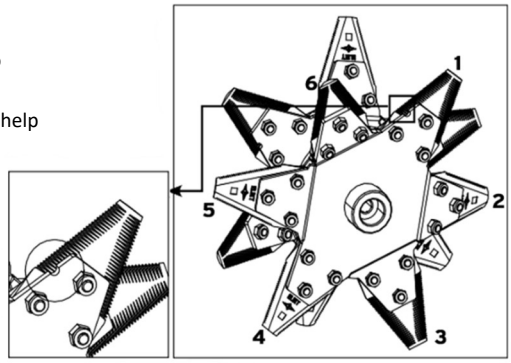




- Notice that the orientation of each blade on the blade disc is different. There is a certain logic for the installation of the slats. To comply with this when turning the blades, we advise you to number the positions of the blades.

- A blade disc is equipped with six positions. So you're going to number the blades and their corresponding positions from 1 to 6 with the help of a felt-tip pen.

- Start numbering in the direction of the hands of a clock (seen from the fixing side), always from the straight blade position with an incision.



- Repeat for the second blade disc.



For information:
Disassemble, twist and reassemble the blades one by one so that you don't make any mistakes. In order not to forget anything, it is better to proceed blade by blade.



Counsel:

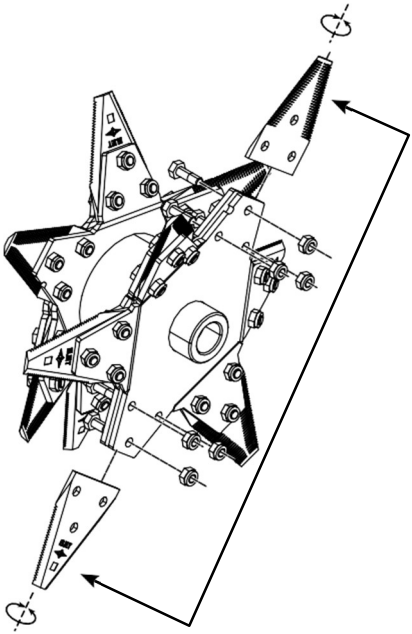
There are 36 bolts in the blade shaft. To loosen the latter quickly, ELIET recommends the use of a pneumatic ratchet. Always place a wrench on the bolt head and loosen the nut with the ratchet. (SW 10mm / 3/8'')



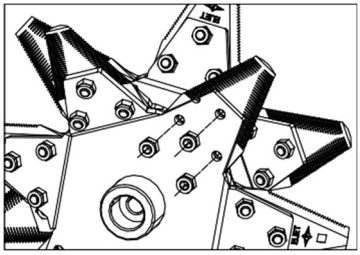
Attention :
If you are loosening bolts manually, always use long-handled wrenches to avoid injuring your hands. (SW 10mm / 3/8'')

- Replace damaged screws or nuts immediately.
  (Screw reference: BS 511 000 618 nut: BS 502 000 600)
- Do not remove the blades with your hands, but use a gripper.
- To be able to easily loosen the blades, it is practical to push a wedge (e.g. a screwdriver) between the blade discs in order to spread them slightly.

- The blade with the number 1 is now rotated 180° and placed in position 4. The blade of position 4 is rotated 180° and placed in position 1.
- The blade with number 2 is now rotated 180° and placed in position 6. The blade of position 6 is rotated 180° and placed in position 2.
- The blade with the number 3 is now rotated 180° and placed in position 5. The blade of position 5 is rotated 180° and placed in position 3.



- Repeat the procedure for the second blade disc.
- Be sure to replace the bolts in the blade holders so that the nuts are on the bearing bearing side. The direction of rotation of the blades contrary to the direction of tightening of the blade bolts thus ensures that the bolts do not loosen.





Attention :

After reversing the blades, always remember to check all bolt tightenings after the first 5 hours of operation. Failure to do so can lead to serious injury or even death. Property damage can also be considerable.

11.3.4.2 Steps to Replace Blades

Please consult your ELIET distributor for the purchase of a new blade assembly quoting the following reference number: BU 401 100 102.

- Stop the machine



Warning:
The blades continue to rotate for a few seconds after the motor has been turned off. Always make sure that the blade shaft is immobilized before removing the shredding chamber cover.



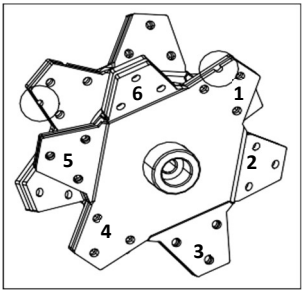
Warning:
Gloves are required, as the blades are very sharp !

- Open the grinding chamber ("see 16.2 Opening and closing the grinding chamber", page 57).

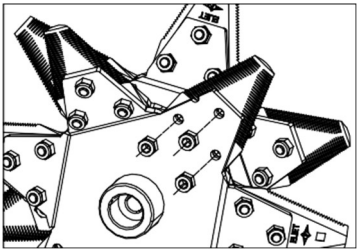
- The blade shaft is removed from the machine to replace the blades (see Appendix 3).

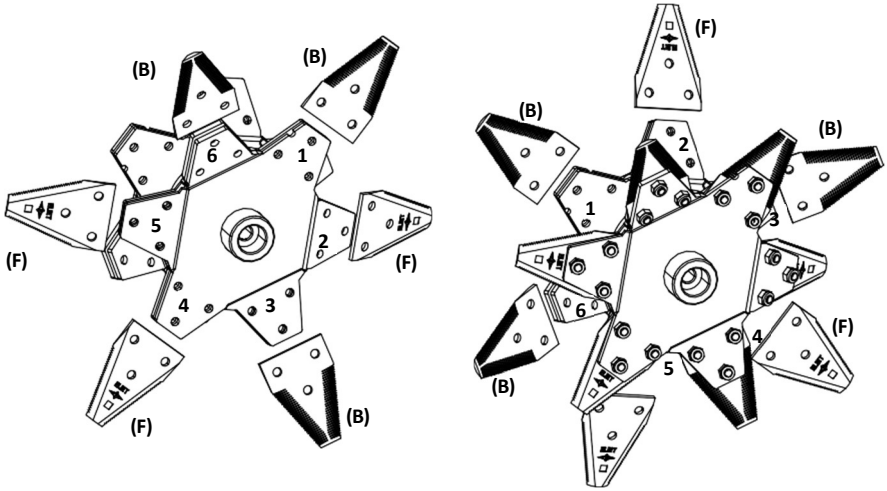
- Replacing worn blades only involves dismantling them and replacing them with new ones. You cannot replace the blades arbitrarily. A certain logic must be respected.

- To avoid errors, number the blade positions on the blade disc from 1 to 6. Start with the straight blade plate that has an incision, and continue clockwise.



- Place the new blades as shown in the figure below.
- Pay attention to the placement of the **F** and **B sides.**
- First, remove any dirt that has accumulated between the two halves of the disc**.**





- Before introducing a new blade, first remove any dirt that has accumulated between the two discs.

TIP : To do this, take a painter's knife and compressed air.

- When replacing a blade, the bolts and nuts that secure it should also be replaced as a matter of course. (They are delivered at the same time as ordering a set of blades).
- Be sure to replace the bolts in the blade holders so that the nuts are on the fastening side. The direction of rotation of the blades ensures that they are tightened so that they do not come loose.



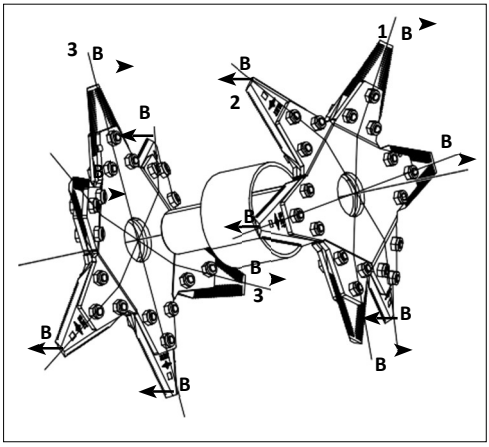
Attention :
Improper mounting of the blades can cause the machine to break or damage it. But operators and people present are also at risk.

- Now repeat the same procedure for the second blade disc.
  Check if the blades are correct climbs:

Apply the following rule :

1. All blades (2 per disc) placed at an angle on the blade disc and directed towards the wall of the crushing chamber must always have their backs **(B)** turned towards this wall.

2. The blades (2 per disc) placed at an angle and directed towards the nearest blade disc must always have their backs **(B)** turned towards the other blade disc.



3. Straight blades (2 per disc) should be arranged in a staggered pattern to the left and to the right.

- When reassembling the blades, remember to tighten the bolts vigorously.
  (See the diagram showing the tightening torques in the appendix.)
- Due to the large number of fastening bolts, it is highly recommended to check all bolt tightenings before replacing the sieve. Bring to using a felt mark on the nut to indicate that they have all been tightened.

At the first work session following a blade change, give the new blades time to stabilize. This means that the bolts lose their tightening, which results in some blades moving slightly between the discs.

After the first 5 hours of operation, you will need to tighten the bolts on the blades. (Torque: 10 Nm)

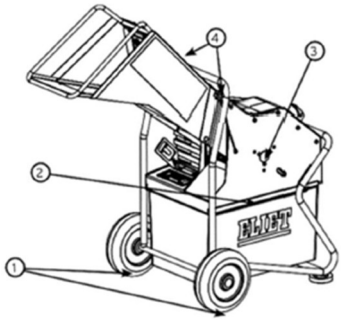


Attention :
After replacing the blades, never forget to check all bolt tightenings after the first 5 hours of operation. Failure to comply with this obligation could have serious consequences for the operator and the machine.

11.3.5 General lubrication

ELIET believes that it is important to use high-quality products, as they extend the life of machines that are, admittedly, sometimes called upon to work in extreme conditions. For this reason, special lubricants were used in the factory.

These parts need lubrication :



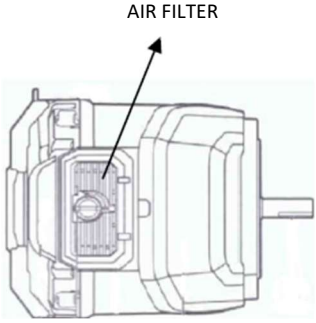
1. Wheel axle
2. Slip bag slide
3. Blade shaft bearing
4. Boulons pour la fixation de l'entonnoir

Spray penetrating oil with a Molybdenum disulfide (MoS2) spray on the above areas to dissolve the old lubricant and to prevent corrosion.

Wipe away all remaining penetrating oil, dirt and old grease with a cloth. Clean everything as best you can.

Apply a new layer of grease. Preferably, use a Teflon spray lubricant (PTFE).

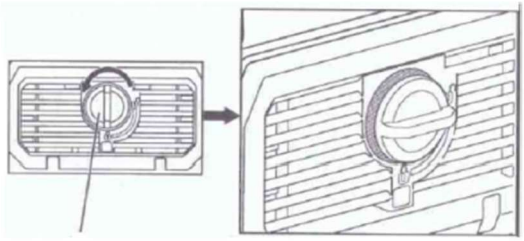
11.3.6 Cleaning the engine air filter



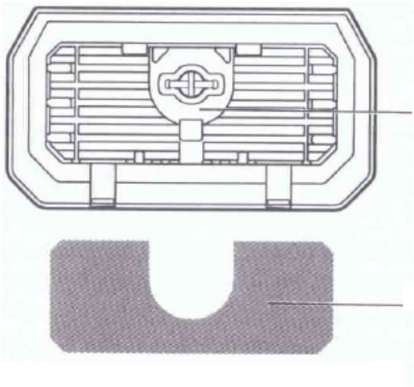
The engine's air filter element is a foam housed on the left side of the machine, in a plastic cover equipped with a locking latch.

- To extract it, simply turn the locking latch a quarter turn to the left and then extract the lid.
- Next, remove the air filter foam element and clean it with compressed air.
- To reassemble, do the opposite: replace the foam element on the air filter cover.

- Reposition this cover on the motor and turn the mounting lock a quarter turn to the right.
- Check that the foam air filter element is still whole and in good condition, that it does not disintegrate into fine particles. If necessary, do not hesitate to replace it.



LOCKING LATCH



12. Machine storage



Clean the machine ("see 9.6 Cleaning the Machine", page 33).

- For compact storage of the machine, the machine's feed hopper can be dismantled (see 16.4 Disassembling the funnel, page 60).
- Before storing the machine for a more or less long period, proceed as follows.
- Do a great interview ("see 11.2 Maintenance Schedule"), page 37.
- Check all bolts and nuts and tighten them if necessary. To check the tightness of most bolts, always take two 10 (3/8”), 13 (1/2”) and 17 mm (11/16”) wrenches and 4 (3/16”), 5 (7/32”) and 6 mm (1/4) hex wrenches.
- Touch up or grease the areas where the paint has popped, to prevent rusting. You can get the original paint from your ELIET dealer.
- Store the machine in a dry place, away from the rain, and possibly cover it with a tarpaulin.
- If the machine is stored outside, it must be well protected by a tarpaulin. Avoid direct weather on the machine. In any case, ELIET strongly recommends storing the machine in a dry and protected place.
- Never store the machine in a place where it cannot be kept away from any flame or other source of excessive heat.
- Remove the battery(es) from the engine and store them ("see 7.4.2 General Battery Use and Storage", page 22).

13. Technical sheet



MAESTRO COUNTRY E-POWER

Shredding capacity	**45 mm (1,75 ")**
Number of axe stroke/min	**36.000**
Capacity (whellbarrow/min)	**14**
Blades	**12x ELIET reversible Resist™**
Loading height	**1200 mm**
Bag collector volume	**80 L**
Footprint dimension	**740 x 650 x 1050 mm**
Dimension	**1360 x 650 x 1400 mm**
Wheight	**63 Kg**

14. CE Certificate of Conformity Maestro Country E-Power

Machine : **Shredder**
Model : **ELIET MAESTRO COUNTRY E-Power**
Type number : **MA 001 053 801**

The design and construction of this machine meets the requirements of the following directive:

"EN 13683 : Garden Equipment –Integrally powered shredders/chippers –Safety"

The machine manufacturer ELIET states that it has carried out a risk analysis, attesting to the knowledge of the risks and dangers of the machine. In this knowledge, the necessary measures have been taken in accordance with Directive 2006/42/EC in order to ensure - in the context of proper use - the total safety of the user.

In order to determine the weighted and guaranteed sound level in accordance with the provisions of Directive 2000/14/EG Annex III/B 50, the measurement instructions of EN 13683 have been applied.

Measured Sound Power Level: Country: 110 dB(A)
Guaranteed sound power level: Country: 110 dB(A)

Date : 09/2022
Signature :



Frederic LIETAER
Managing Director of ELIET SA

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Belgium
Tel : +32 56 77 70 88
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E-mail : info@eliet.be

15. Warranty conditions

Dear Customer,

Thank you for trusting ELIET products. We are confident that you have purchased the machine that best suits your needs. As a manufacturer, ELIET is concerned about ensuring the proper functioning of its machines.

What is the warranty?

At ELIET, the machines are designed and manufactured according to a quality-controlled procedure with the aim of ensuring a long service life and a permanent level of safety. **If a hidden defect or abnormal failure** occurs during this warranty period (**the Warranty Period**), ELIET undertakes, provided that the **prescribed procedure is followed**, to have the necessary repairs carried out in order to guarantee this quality objective.

Warranty Conditions

For the conditions described below, ELIET, in its capacity as a manufacturer, grants an obligation to intervene under warranty for new machines :

I. Warranty period

The warranty period begins upon delivery by the dealer (invoice date) and expires:

- After 2 years in case of private use.
- After one year or 100 hours of operation* in the case of rental.
- After one year or 100 hours of operation* in case of semi-professional or professional use.
  Customers wishing to benefit from this warranty must register the purchased product with ELIET.
  To do so, they are asked to register their online purchase on **www.eliet.eu**

* the first term reached

II. When does the warranty not apply?

- Wear parts are not covered by the warranty conditions: (e.g. knives, bearings, belts, chains, sprockets, tyres, tell-tales, fuses, etc.).
- When it appears that the failure is the result of mishandling, careless use, negligence or damage resulting from external factors (fall, rock impact, foreign objects, accident).
- When it appears that the breakdown is the result of failure to perform the prescribed maintenance or periodic cleaning.
- When the failure is the result of use not in accordance with the instructions given in the user guide.
- When a breakdown has occurred after a repair has been carried out by a non-authorised ELIET dealer or with non-original ELIET parts.
- When the failure is the result of an unauthorized modification of the original construction.

- When the prescribed warranty intervention procedure has not been followed or when the warranty period has expired.
- or any engine problem, contact a service center of the engine brand approved by the machine manufacturer.

III. Procedure :

- **Step 1:** The customer is obliged to keep the purchase invoice until the warranty expires. The customer is required to register their purchase on www.eliet.eu the day they acquire the machine.
- **Step 2:** When a breakdown occurs, the customer must have it checked by his ELIET authorized distributor. If the latter considers that it is a manufacturing defect, he can invoke the warranty under the specified conditions.
- **Step 3:** Any warranty claim will be accompanied by a duly completed official claim form. Distributors can obtain these forms from ELIET or an ELIET importer/agent.
- **Step 4:** The distributor orders the spare parts necessary to carry out the repair. The distributor then forwards the purchase order with the completed warranty form.
- **Step 5:** The warranty form must be attached to the purchase invoice and sent to ELIET or the ELIET importer/agent along with the defective components.
- **Step 6:** ELIET will ship the ordered parts to the distributor under normal delivery and payment conditions.
- **Step 7:** ELIET's after-sales service will examine the defective component before accepting or rejecting any warranty service request. ELIET reserves the right to decide whether the customer has complied with the conditions governing the validity of this one- or two-year warranty period. Defective components will become the property of ELIET.
- **Step 8:** If the warranty intervention request is deemed to be justified, ELIET will credit the parts delivered under warranty. The workforce is never taken care of by ELIET.

IV. In the event of transport damage:

- All goods are deemed to be sold ex works. The risks associated with transport are entirely borne by the customer.
- ELIET therefore strongly advises the customer to examine the goods at the time of receipt.
- Damage must be reported on the delivery note before signing. Make sure that the carrier's driver signs this mention of the damage found on your delivery.
- The insurance company will not be liable without such written statement signed on the delivery note.
- Damages may be sought from the carrier based on a copy of the delivery note and a cover letter detailing your claim.
- The machine must be kept in its original condition until it is examined by the carrier's insurer.

16. Appendices

16.1 Risk analysis

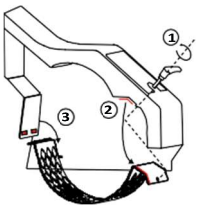
Below is a list of hazards and risks associated with storing, transporting or operating the shredder. Take note of these dangers and avoid these risks by following the instructions in the instruction leaflet. Be aware that not only the user is at risk, but that third parties may also be at risk. Be sure to keep third parties at bay.

- Injury to the hands from putting hands in the feed opening.
- Risk of serious injury or death due to the detachment of a machine part (knife, bolts, etc.) following a lack of inspection and maintenance.
- Risk of injury due to projection through the entrance or exit after the introduction of a foreign body (stone, metal, textile, plastic, etc.).
- Injury by waste being thrown on the discharge side onto a machine in operation.
- Injury or cut to the hands as a result of opening the crushing chamber when the blade shaft has not yet come to a stop.
- Injury or cut to the hands as a result of the dismantling of the blade shaft.
- Injury or cut to the hands as a result of a fall from a dismantled blade shaft.
- Strangulation due to the catchment of a loose garment in the machine.
- Injury due to machine tipping over during careless transport.
- Fire hazard due to wood chips and residues clogging the cooling air channels.
- Irritation of the respiratory tract or lung problems due to inhalation of the dust produced.
- Hearing impairment caused by insufficient ear protection during work.
- Bruise or injury during introduction due to the force exerted by the blades on the wood.
- Bruise or injury due to material return during introduction through the funnel.
- Nervous system disorders or rheumatic diseases due to grinding without taking breaks.
- Joint pain resulting from vibrations caused by a continuous supply of large branches.
- Injury due to contact with blades during unclogging, maintenance, or cleaning.
- Back problems after careless lifting of the machine.
- Injury due to a fall during transport on a ground that cannot support the weight of the person and the machine.

This list is not exhaustive and is for information purposes only for the benefit of the user's safety

16.2 Opening and closing the grinding chamber

16.2.1 Open the grinding chamber

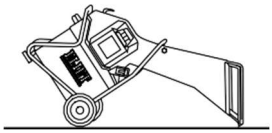


1. First, remove the collection bag from the machine to access the grid.
2. By means of the lever, (1) loosens the lock of the grille. When the lever is completely loose, press the lever. The grate is out of its seat and detaches from the machine.



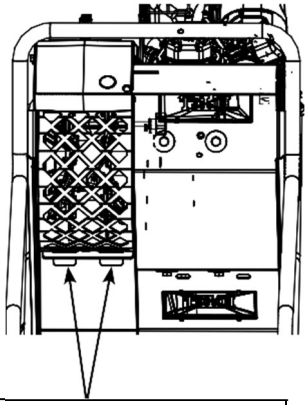
Warning:
The knives are sharp, avoid hand injuries. Wear gloves!

3. To get a better look at any clutter in the shredding chamber and empty it safely, tilt the machine on the front wheels until the funnel lands on the floor.



16.2.2 Close the grinding chamber

To replace the grid, slide the two notches into the slots provided on the machine frame. Afterward, insert the grate into the grinding chamber against the lever seat. The grate then fits onto the edge of the grinding chamber. Now we can tighten the grid with the lever. Screw this lever in until the tension is sufficient.



SIEVE NOTCHES IN THE CHASSIS

16.3 Assembling and disassembling the blade shaft



Attention :
Before disassembling the blade shaft, always stop the motor.



Warning:
You come into contact with the slats during this maintenance. These can be very sharp, and there is a real risk of hand injuries. Wear quality protective gloves.

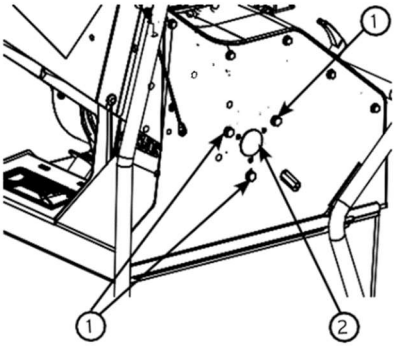
Before disassembling the blade shaft, remove the machine pick-up bag out of the machine ("see 16.2 Opening and closing the grinding chamber", page 57).
If necessary, remove the chips from the grinding chamber.

The knife shaft is mounted on the axis of the motor, and is therefore supported by the motor. The attachment of the blade shaft is variable depending on the model:

On the **Maestro Country model,** the blade shaft is supported by a bearing bearing. This bearing centers the axis of the blade holder if it is inserted too far from its center and is under pressure. In normal operation, there is no contact and there is a gap between the bearing and the end of the blade pin.

To remove the shaft from the axle, first remove the bearing bearing.

- To do this, unscrew the three M8 bolts (1) (size 13 – ½"), or the three M6 bolts (size 10 – 3/8").
- Remove the rubber cap (2) from the outer right side of the grinding chamber, to access the central clamping screw of the blade shaft.
- Loosen this left-rotating clamping screw, and remove it completely from the machine.

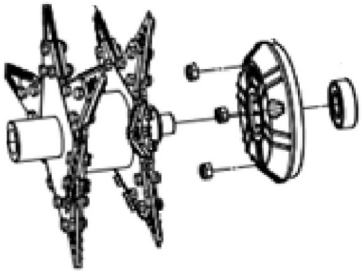


- Now release the motor mounting screws outside the chassis. To do this, unscrew the 4 M8 screws completely.
- The engine and chassis are no longer fixed together.

- As soon as the motor is no longer under pressure against the chassis, remove the blade shaft from the motor shaft.

- Take the blade shaft between the two knife plates, and hold it. Then, slide the motor outwards until the motor axis is completely outside the blade shaft. You can extract the blade shaft through the outlet of the crushing chamber.

- Check the bearing for too much wear and damage. If necessary, replace the bearing: item number BL 002 004 703.



- To reassemble the blade shaft, make sure that the bearing and bearing are already positioned on the outside of the blade shaft before sliding it into the grinding chamber.

- Then slide the motor shaft into the blade shaft hub until it is attached to the motor shaft.

- Then, tighten the locking screw in the center axis. Lock this clamping screw securely (wrench of 13 – ½").

- Reassemble the bearing and screw it in. The screws will not be too strong so that the thread of the bearing bearing does not break.

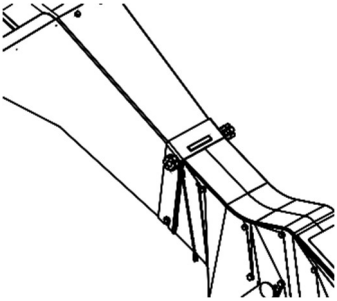
- Replace the protective rubber cover in the right side opening of the chassis to protect the bearing bearing.

- Now slide the motor so that the knife shaft is placed in the central position in the grinding chamber so that the distance between the outer knives on each side is equal.

- Replace the clamping bolts in the engine plate. Tighten the screws sufficiently, but not excessively. Check if the shaft is aligned with the support bearing bearing. The spacing between the bearing bearing and the knife shaft must be the same throughout. If not, turn the engine to adjust its position. Now you can also tighten the motor fixing screws.

16.4 Disassembling the funnel

To save space during storage, the funnel can be dismantled. The wheel support axle can also be removed.



Completely unscrew the two wing screws on each funnel.

Once the two wing screws have been disassembled, the funnel can be dislodged.

Press the funnel handle with your right hand, and remove it by lifting it with your left hand from the bottom of its support.



Attention :

Be careful when extracting the funnel. Don't let it down.

The funnel can deform so that it can no longer be wound up on the machine.

16.5 Starting and stopping the engine

The "on/off" push button on the upper part of the motor is backlit and has a safety time delay.

- To start the engine: Press and hold the "on" push button for three seconds and then release it. The engine will only start when you release the push button.

- To stop the engine: Press and hold the "on/off" push button again for three seconds. The motor will stop as soon as you release this push button.



16.5.1 Backlit on/off push-button display

1. **PERMANENT GREEN**: **The motor is in normal operation.**

2. **PERMANENT ORANGE**: **The engine overheats.**

   In this case, check and clean the air filter element if necessary (see 11.3.6 "Cleaning the engine Air Filter", page 51) or reduce the workload.
   It is also possible that the outside temperature is too high or that the battery(ies) used have a capacity of less than the recommended 10 Ah by ELIET (see 7.4 "Directives specific to battery-powered machines"), page 21).

3. **FLASHES RED: The battery(ies) are low voltage.**

   You just need to recharge the battery(ies).

4. **FLASHES ORANGE: The motor is overloaded.**

   The pace of work must be moderated.

NOTE:

This phenomenon can also occur with a slowdown in engine speed which automatically protects against overheating. This can also happen when use of the machine with batteries with a capacity of less than 10 Ah (see 7.4 "Guidelines for Battery-Powered Machines", page 21).

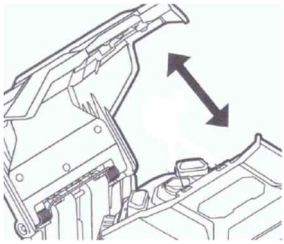
5. FLASHES RED AND GREEN SIMULTANEOUSLY: No communication.

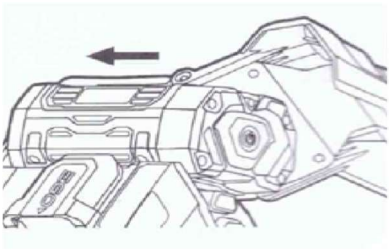
There is a communication failure between the battery(ies) and the motor. Start by removing the battery(ies) from their housing on the motor and then try to replace it again (see below 16.5.2 "Inserting the battery(ies) on the engine", page 62).
If this phenomenon persists, do not insist and contact your ELIET distributor.

16.5.2 Insert and remove the battery(ies) from the motor

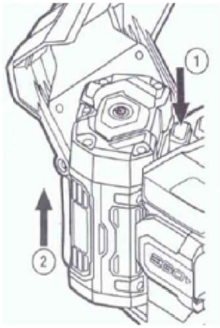
The motor has two slots where the battery(ies) are placed.

- To insert a battery onto a housing on the motor, lift the removable protective cover from the battery compartment (see view on the right) and place the battery in the slide that fits its shape and press it forward until a clear lock is obtained (a click must be audible).





- To remove a battery from its housing on the motor, lift the removable protective cover from the battery compartment and press with one hand on the green pusher just above the battery (1) you want to extract and hold the battery in the other hand (2) to support it.





Attention :

Make sure to support the battery you want to extract.

When unlocking the motor, the battery may be ejected and fall to the ground, or to your feet.

16.5.3 "Eco" and "Turbo" operating modes

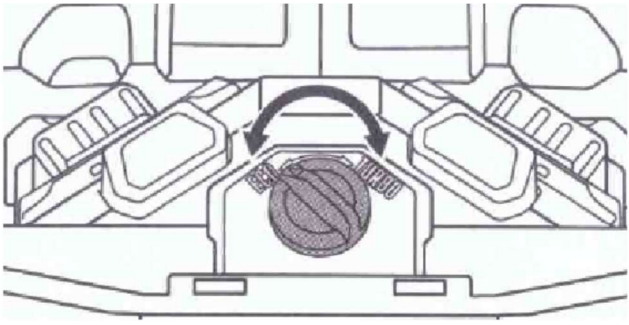
The engine has two operating modes, "Eco" and "Turbo" modes.
A switch for selecting these two modes is positioned near the battery housing
The user can opt for the "Eco" mode when using the machine in moderate working conditions.

- In "Eco" operating mode: This will result in a lower rotational speed, with the main advantage of reduced battery energy consumption, thus a longer range.

  To engage this mode, turn the mode select switch to the left until you reach a stop stop. The beveled portion of this switch should be positioned opposite the "Eco" inscription (see view below).

- In "Turbo" operating mode: the rotation speed will be higher and the performance of the machine will also be higher. However, the battery life will be lower due to higher consumption.

  To engage this "Turbo" mode, turn the mode selection switch to the right until you reach a stop stop. The beveled portion of this switch should be positioned opposite the "Turbo" inscription (see view below).



16.5.4 Backlit display of battery(ies)

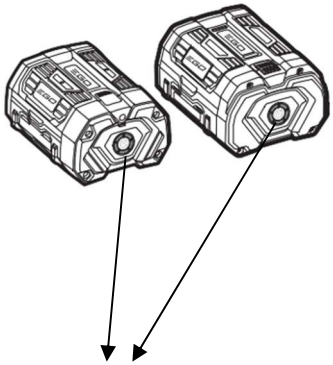
At the time of writing this user manual, ELIET distributes two models of 5 and 10 Ah capacity batteries.
For this two batteries, the LED display of the different colors is identical.

To find out the remaining capacity of each battery, it is Possible to simply press the push button on the outer side of the battery and interpret the remaining capacity.

The backlight will then indicate the number of led sliders on and they will remain backlit for 10 seconds.

The number of LED indication sliders corresponds to a remaining capacity value and are backlit in green or in red.

The table below provides indications concerning autonomy and battery status.



PUSH BUTTON – LEVEL OF REMAINING CAPACITY

Battery charge level/Working condition	5-LED indicator	Remarks
80% ≤ Charge level ≤ 100%		5-LED shining green
60% ≤ Charge level <80%		4-LED shining green
40% ≤ Charge level < 60%		3-LED shining green
20% ≤ Charge level < 40%		2-LED shining green
10% ≤ Charge level < 20%		1-LED shining green
Charge level < 10%		1-LED flashing red.
Low voltage		5-LED flashing red. The battery pack is nearly depleted and needs to be charged immediately.
Over temperature		5-LED shining red. Cool the batter pack until the temperature drops below 67°C.

Self maintenance	-	For BA1400T/BA2800T/ BA4200T/BA5600T 5 LEDs shine solid red for 10 seconds, then go out and remain off for 10 seconds, then shine solid red for 10 seconds again or 5 LEDs flash green every two seconds based on different battery version. Both indications, the LEDs will run the cycle until the self-maintenance is finished. For BA2240T no special indicator.

16.5.5 Battery Operation Information

- Battery Protection:

Each battery benefits from protection of its circuit against excessive temperature variations, gradual discharge and recharging.
To extend its life and prevent deterioration, a built-in device will automatically turn off the battery if it is overcharged or if its temperature is too high during use.

This can also happen if the engine jams or if you use it excessively.
In this case, the battery will automatically turn off and the LED backlight will remain on for 10 seconds in red, especially when the temperature of the battery exceeds 70 degrees Celsius (158 degrees Fahrenheit).
The battery will resume normal operation once the temperature drops below 67 degrees Celsius (152 degrees Fahrenheit).

Note: A significant reduction in range after a full charge may indicate that the battery is worn out and needs to be replaced. In this case, consult your ELIET distributor.

- Cold Weather Battery Use

Battery performance is optimal in temperatures between 10 degrees Celsius (50 degrees Fahrenheit) and 26 degrees Celsius (10 degrees Fahrenheit).

When used in very cold temperatures, "hesitation" phenomena may occur during the first minute of use; To overcome this phenomenon, ELIET recommends that you place the battery(ies) on the machine and start the engine without introducing any goods for about a minute.
In this way, the battery(ies) will be able to warm up gradually and then function normally.

- When to charge a battery

The new battery is partially charged; It is recommended to fully charge before first use.
Each battery has an automatic maintenance function to help it optimize its lifespan and state of charge, and it will go into automatic standby after 30 days of inactivity by practicing an automatic discharge corresponding to 30% of its maximum charge.

Before reusing your machine after more than 1 month of inactivity of the battery(ies), proceed with a full charge.

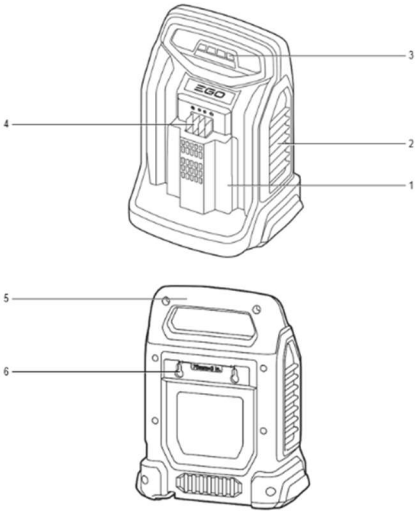
Note:
There is no "memory effect" on Li-ion batteries, which means that under normal use, they do not need to be fully charged in order to operate.
(For more information on the state of charge of the batteries, please refer to "16.5.4 Backlit Display of Battery(ies)", page 64.

PROBLEM	CAUSE	SOLUTION
The battery pack charge is reduced after more than one month of non-use.	The battery pack has automatically performed self-maintenance to extend its life.	Fully recharge the battery pack before use.
The 5-LED indicator shines red when the battery pack is working.	The battery is too hot.	Cool the battery pack until the temperature drops below 67°C.
The battery (BA1400T/BA2800T/ BA4200T/BA5600T) endcap gets warm during storage. Either 5 LEDs shine solid red for 10 seconds, then go out and remain off for 10 seconds, then shine solid red for 10 seconds, or the 5 LEDs flash green for every two seconds. This difference is based on battery version.	The battery pack is automatically performed self-maintenance to extend battery life.	No action is required; this is normal. Press the power indicator the self-maintenance process will stop.
The battery will not charge correctly on the charger (Charger doesn't work and shines the cold/ heat battery indicator.).	The battery pack is too hot /cold during charging	Reinsert the battery pack (Only for BA2240T) Cool down or warm up the battery pack. Charging will begin when battery pack returns to the normal temperature.

16.5.6 Information about battery charger operation

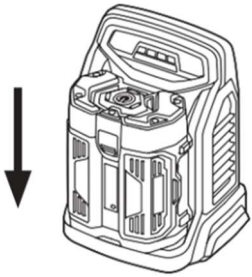
Details of the different parts of the battery charger:

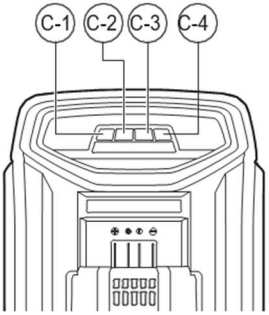
1. Battery Housing/Slide
2. Air vents
3. LED Lights
4. Connecting slats
5. Handful
6. Openings for wall mounting



To insert the battery onto the charger, simply place it on it in an upright position so that the lower part of the battery fits the insert slide correctly (1).

Particular care should be taken to ensure that the connection slats (4) are not dirty, bent or covered with any liquid or other object (see "7.4.5 Specific instructions for the use and care of the battery charger", page 24).





Once the battery is inserted, the LED lights (3) will light up and indicate the current function and the battery charge status.
See the table on page 68 for the details of the display of the different LED lights:

- For the 5 AH battery (Reference ELIET MA 001 001 051)

  Estimated charging time; about 40 minutes for a fully discharged battery.

- For the 10 Ah battery (reference ELIET MA 001 001 052)

  Estimated charging time: Approximately 70 minutes for a fully discharged battery.

LED INDICATOR	BATTERY PACK	LED ON THE CHARGER				POWER INDICATOR ON THE BATTERY PACK	BETTERY PACK POWER	ACTION
		LED1	LED2	LED3	LED4			
	Defective	Flashing red or off	Off	Off	Off	Off	—	Battery pack or charger is defective.
	Cold/Hot Battery	Shining red	Off	Off	Off	Off	—	Charging will begin when battery pack returns to 3°C–57°C.
	Charging	Flashing green	Off	Off	Off	Flashing red, orange and green alternately	Less than 25%	Charging
		Shining green alternately		Off	Off		25% to 50%	Charging
		Shining green alternately			Off		50% to 75%	Charging
		Shining green alternately					75% to 90%	Charging
	Full Charged	Shining green continuously				Off	90% to 100%	Charging is complete. Maintenance charging.
—	Self-maintenance	Intermittently quick flashing in green				Off	Approx. 30%	Battery pack is performing self-maintenance or in sleep mode. Reinstall the battery pack on the charger to recharge it fully.

- When the charger is plugged into its power supply, the 4 LED lights will light up briefly. It is also a sign that the charger is working properly.
  Once the battery is inserted on the slide (1) and in contact with the charging lamellae (4), the charger communicates with the inserted battery in order to measure its condition. The charger fan also turns on to cool the charging battery.

- Then, charging begins and the LED lights light up green (from left to right) gradually depending on the state of charge.

- When the 4 LED lights are permanently lit green, the battery is fully charged and ready for use. Then, the 4 LED lights will turn off as well as the power indicator and the cooling fan.

Note :
If the charger and battery remain connected to the mains for more than 30 days without being used, the battery will go into automatic maintenance and lower its charge level to 30%. To resume normal operation after more than 30 days of inactivity, immediately unplug and reconnect the charger to allow the battery to resume a normal charge cycle.

- A significant reduction in battery life indicates that the battery is worn out and needs to be replaced.

- The charger can heat up while the battery is recharging, it's part of its normal operation. Use it in a ventilated area (see "7.4.5 Specific instructions for use and care of the battery charger", page 24).

- If the battery temperature is not within the recommended operating ranges, the first Led light (C1) on the left will illuminate permanent red and charging will be interrupted until the battery returns to a normal operating temperature. The other LED lights (C2 – C3 – C4) will remain off.

- In the event of a malfunction of the charger, the first LED light on the left (C1) will light up red and flash and the other LED lights (C2 – C3 – C4) will remain off.
In this case, try unplugging and plugging the charger back in. If this malfunction persists, remove and reinsert the battery directly.

- If despite these attempts the C1 LED light remains illuminated red and flashes, try to repeat this operation using a different battery.

After attempting this maneuver with another battery, and if the charger resumes normal operation, it is likely a sign of deterioration or wear of the battery. Take the affected battery to your ELIET distributor for final checks or dispose of it (see "7.4.3 Specific Guidelines for Disposing of Worn or Damaged Batteries", page 23).

- If the trouble persists with trying another battery, unplug the outlet and wait for the C1 Led light in red to turn off completely. Then, plug the charger back in. If the C1 LED light lights up red again and flashes, it may be an indication that the charger is faulty.

If in doubt and to avoid any mistakes, do not hesitate to consult your ELIET distributor.