

KS240



This booklet provides information about the actual use and maintenance of the machine. Read it carefully and keep it safely for future reference.



Please also keep your purchasing invoice or receipt together with this booklet.



Register your product online on www.eliet.eu

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1. Introduction



1.1 Read this operating manual carefully

ELIET machines are designed for safe and reliable use if they are operated in accordance with the instructions provided. Carefully read these operating instructions before using the machine. Failure to do so may result in personal injury or damage to the equipment.

1.2 Identification data - ELIET KS240

Note the identification data relating to your machine in the text boxes:			
Stock no.:	MA		
Serial number:			
Year of manufacture:	20		

2. Warranty



2.1 Warranty card

To be eligible to obtain warranty you must send the completed warranty card within one month from the date of purchase to the address stated below:

ELIET EUROPE NV, Diesveldstraat 2, B - 8553 Otegem (Belgium)

Ph. +32 56 77 70 88 - Fax +32 56 77 52 13

REGISTER YOUR PRODUCT ONLINE ON WWW.ELIET.EU

Read the warranty conditions on the attached warranty card.



For your information:

The warranty does not cover any technical problems or defects that occur as a result of poor maintenance. Chapter 11 provides an overview of the maintenance intervals and recommendations regarding maintenance that requires intervention by an authorised dealer.



Welcome to the family of ELIET users.

We thank you for the trust that you have placed in ELIET and we are convinced that you have purchased the very best machine. The operating life of your ELIET machine depends on how you care for your machine. Strict adherence to the instructions and suggestions in these manuals will guarantee optimum performance of your ELIET machine for a very long time.

Read this manual carefully before operating the machine. This will prevent you from operating the device incorrectly. For your own safety, please observe the safety instructions specified in the relevant chapter. Even if you are thoroughly familiar with operating such equipment, it is still advisable to read these pages carefully.

All ELIET equipment and machines are continually being updated and improved and therefore the specification of your machine may differ slightly in terms of shape, technology and accessories. The descriptions and technical data in this manual are accurate at the time of printing. Certain illustrations and descriptions may not be applicable to your specific machine, but instead relate to a different version of the machine. We trust therefore that you will understand that the texts and illustrations in this manual cannot give rise to any claims. If you still have questions after reading this manual, please contact your ELIET dealer. Find an official ELIET dealer near you on www.eliet.eu.

ELIET AT YOUR SERVICE

During office hours ELIET's help desk will make every effort to answer all of your questions:

European customers GMT +1: from 8:00 a.m. to 6:00 p.m.

Ph +32 56 77 70 88 Fax +32 56 77 52 13 Service@eliet.he

4. Table of Contents

1. Introduction	3
1.1 Read this operating manual carefully	3
1.2 Identification data - ELIET KS240	3
2. Warranty	3
2.1 Warranty card	3
3. Welcome	4
4. Table of Contents	5
5. Operator safety warnings	
5.1 For your information	
5.2 Caution	7
5.3 Warning	7
6. Main parts	8
6.1. General overview	8
6.2 Engines	9
7. Safety instructions	10
7.1 Safety messages	
7.2 Safety features	11
7.3 Safety instructions	12
7.3.1 General safety regulations	12
7.3.2 Careful and proper use	12
7.3.3 Operator's responsibilities	13
7.3.4 Personal Protective Equipment (PPE)	13
7.3.5 Danger zone	14
7.3.6 Periodic maintenance	14
7.3.7 In harmony with nature	15
8. Dealer's duties	15
8.1 Assembly	15
8.2 Other duties	17
9. Operating instructions	18
9.1 Preliminary checks	18
9.2 Adding fuel	18
9.3 Preparing the work site	19
9.4 Starting the petrol engine	20

11. Maintenance	28
11.1 General	28
1.2 A routine check before each operation	29
11.2.1 Visual check of the state of the machine	29
11.2.2 Checking the engine's oil level	29
11.2.3 Cleaning the air filter	29
11.2.4 Adjusting depth regulator	30
11.2.5 Checking and tightening the blade bolts	30
11.2.6 Checking the blade	31
11.3 Checking after 50 hours of use	32
11.3.1 Removing the wheel guard	32
11.3.2 Changing the oil	32
11.3.3 Checking the sparking plug	33
11.3.4 Changing the air filter	34
11.3.5 Lubricating	34
11.3.6 Belt tension adjustment	
12. Storing the machine	37
12 Environment annulfications	20
13. Equipment specifications	38

5. Operator safety warnings

ELIET cannot anticipate every situation in which a risk or danger can occur. The warning symbols in this operating manual and the labels on the machine are therefore not comprehensive. Although minimal, a residual risk will always be present. If while operating the machine you apply a working method, operation or technique that is not explicitly recommended by ELIET, make sure that it does not represent a danger for bystanders.







A number of symbols ("For your information", "Caution", "Warning") are used in this operating manual to provide additional information and to highlight dangers.

5.1 For your information



For your information:

This symbol is used to draw your attention to specific information and/or actions, or to indicate where you can find additional information relating to the subject.

5.2 Caution



Caution:

This symbol suggests safe practices. The purpose is to prevent incorrect operation that could result in personal injury or damage to the machine.

5.3 Warning



Warning:

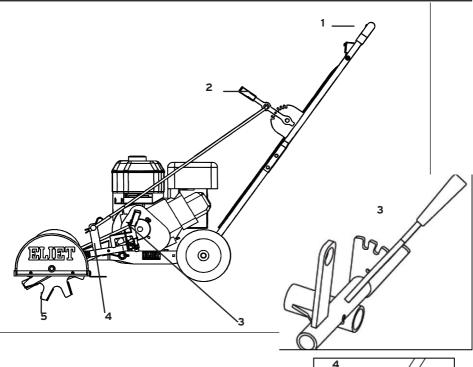
This symbol warns you about extreme danger that you must take notice of in those specific circumstances. So for the sake of your own safety, remain alert at all times.

These safety messages can only warn and not remove the danger. Both the use of common sense and proper observation of the guidelines in this manual are essential to prevent accidents.

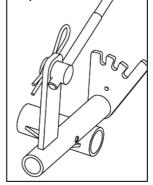
6. Main parts

To fully understand the content of this operating manual you need to be fully conversant with the terminology used for the descriptions. This chapter refers to a broad range of machine parts and identifies their names. We recommend that you take the time to study the machine prior to its use for a better understanding of the descriptions provided in this operating manual.

6.1. General overview



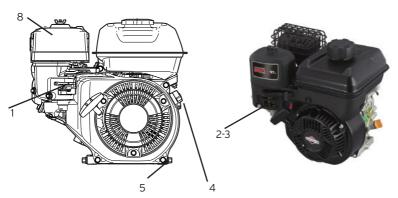
- 1) Safety bar
- 2) Belt tensioner/Depth regulator
- 3) Angle setting
- 4) Precision adjustment height regulation
- 5) Blade



6.2 Engines

Honda GP 160

B&S series 550



- 1. Choke
- 2. Speed control
- 3. ON/OFF switch
- 4. Oil filler cap/dipstick
- 5. Oil drain plug
- 6. Fuel tap
- 7. Exhaust
- 8. Air filter



For your information:

All references to front, rear/back, left and right in this manual are from the view-point of the operator standing on the side of the handlebar.



For your information:

Your ELIET dealer remains at your service for any maintenance or advice, ensuring your ELIET machine is always in perfect condition. You can contact him for original ELIET parts and lubricants at any time. These service parts are manufactured according to the same strict rules and craftsmanship as the original equipment. (Find the closest dealer on www.eliet.eu).



Caution:

For your own safety, only genuine parts should be mounted on ELIET machines. For a list of original spare parts and their ordering codes please visit

www.eliet.eu

7. Safety instructions





7.1 Safety messages

The safety messages are clearly indicated on the machine with stickers or relief pictograms. Take good notice of the symbols and warning messages displayed.



This sticker groups a number of key safety messages and information about the machine and the manufacturer:

Some safety instructions are symbolised by icons:

- 1. Before operating the machine the manual should be read and understood.
- **2.** Suitable safety clothing (gloves, safety goggles, ear defenders) should be worn when operating the machine.
- **3.** There is a real risk of severe injuries including permanent damage to the hands. Never place your hands near the blade while it is still operating.
- **5.** There is a real risk of severe injuries with permanent damage to the eyes or face as a result of flying debris.



This sticker notifies the operator that the engine must be turned off and the spark plug cap removed before starting maintenance on the machine.



This sticker reminds the user that bystanders should observe a minimum distance from the machine.

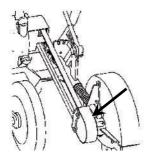


Caution:

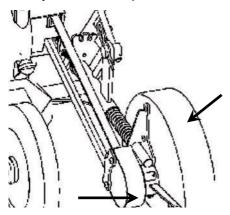
Safety stickers or parts that include safety information that are damaged due to use or cleaning, become illegible or have been removed must be immediately replaced. Stickers and parts can be obtained from any authorised ELIET dealer.

7.2 Safety features

Belt shield:



Blade guard and mud-flap:



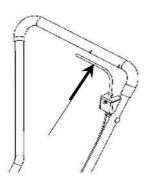
Safety bar:

If this bar is pulled towards the user, the blades will be engaged.

Releasing the operation lever disengages the blade drive from the engine, causing the blade axle to come to a stop.

The lever therefore provides maximum safety and avoids the engine coming to an unexpected stop.

The engine can only run if the safety bar is pressed against the steering bar. While working, therefore, this must always be manually pressed against the steering bar. You are not permitted to fix this safeguard in position in any other way (e.g. rope, adhesive tape,...)



7.3 Safety instructions

7.3.1 General safety instructions

- The owner of the machine will keep this manual during its complete service life. A reference
 guide for the user, it also ensures that the machine is used and maintained correctly at all
 times. Always refer to this instruction manual if you have any doubts about an operation that
 you are about to perform.
- If the instructions stated in this manual are not clear to you, do not hesitate to contact your Eliet dealer for further explanation. In addition, the ELIET help desk is at your service during office hours to answer any questions you may have: (EU +32 56 77 70 88).
- Be sure to read the chapter which is intended for the dealer (see chapter 8) and verify whether the machine was delivered in accordance with the instructions.
- After you purchase the machine, allow the dealer or a professional to give you some instructions regarding correct use.
- Carefully observe all safety instructions when using this ELIET machine! Carefully read all the
 instructions relating to the operation of the machine. All these instructions are important for
 your own personal safety.
- · Always observe the applicable regulations of the Labour Inspectorate to avoid accidents.
- Read and observe all safety messages indicated on the machine in the form of stickers or icons.
- Under no conditions whatsoever may the original design of the machine be modified without written consent of ELIET EUROPE NV (Belgium).

7.3.2 Careful and proper use

- This machine is intended to be used to remove overgrown grass from lawn edges and should only be used for this purpose.
- Think about what you are doing whenever you operate the machine. Do not be tempted to let routine dull your attention. Never act impulsively or on reflex.
- It is unsafe for persons with heart problems and/or balance disturbances to operate the machine.

- Despite the extensive safety features, do not seek out dangerous situations.
- Never work with a machine that has not been fully assembled. Check the finish of the machine
 to ensure compliance with the instructions provided in this manual.
- · Never work on frozen ground.
- Remove foreign materials from the path you are to take (ropes, stones, metal, plastic, textiles...)
- The only safe position for the operator while operating the machine is behind the handlebar.
- Never work when light intensity is below 500 Lux.
- Never attempt to change a machine setting and never perform maintenance when the motor is running.
- · The machine may cause an explosion if you work near flammable products, fumes, etc...

7.3.3 Operator's responsibilities

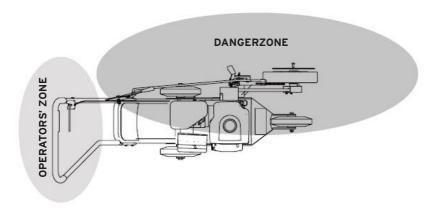
- All persons using the machine are assumed to be fully conversant with the safety instructions.
 The operator is fully liable for the use of the machine in regard to himself and to third parties.
- The operator of this machine is assumed mature enough and with enough common sense to make decisions by himself.
- The machine may not be operated by underage persons. However, this does not apply to
 youths over the age of 16 who are learning to operate the machine under the supervision of an
 experienced operator.
- A disabled person may only operate the machine when under the supervision of an experienced operator.
- Children (under 16 years of age) and animals should be kept at a safe distance (2 m) from the machine
- ELIET advises against lending the machine to others, but if this should occur, it should only be lent to persons who are familiar it. Always make sure that the user is aware of the potential hazards and ensure that he/she reads the manual before using the machine.
- This machine must only be operated by persons who have a good physical condition. Take a
 rest if you become tired while operating the machine. Persons consuming alcohol or drugs
 must not operate this machine.
- The user must draw up a list that registers the number of hours worked. This will ensure that
 the repetitive maintenance schedule can be followed correctly in relation to the machine.

7.3.4 Personal Protective Equipment (PPE)

- You must wear suitable clothing to operate this machine. That is, clothing covering the whole body, heavy protective gloves and closed non-slip footwear.
- For the protection of the most sensitive senses, Eliet recommends wearing ear defenders and safety goggles.
- You must pay more attention and be more careful when wearing ear protection because noises
 that announce a danger (such as shouting, signal sounds) will only be heard to a limited degree.
- ELIET does not recommend using a Walkman or a portable MP3 player during operation of the machine.

7.3.5 Danger zone

- Never allow bystanders within the danger zone stretching up to 2 m around the machine during work.
- Contact with moving parts may cause injury or damage. Ensure, therefore, that hands, feet or loose clothing are well away from moving parts.
- · You must only operate the machine when it is in its normal working condition.
- Do not take any risks and immediately stop the machine as soon as anyone enters the danger zone.
- · Children and animals must be kept well away from the machine.
- · Shut off the engine when leaving the machine unattended.
- Once the motor is running, focus all your attention on operating the machine.



7.3.6 Periodic maintenance

- Periodic maintenance is essential. You must therefore strictly follow the maintenance schedule in this operating manual (see Appendix B1 'Maintenance Schedule')
- Draw up a maintenance register in which you keep the performed maintenance updated in detail.
- Regularly cleaning the machine is essential. In particular, keep the air supply for ventilation of the motor free from obstructions. This will prevent overheating and consequential damage to the machine.
- When parts must be replaced as a result of wear or failure, you must always request original ELIET replacement parts from your ELIET dealer. This is of key importance for your own safety. (Find an authorised ELIET dealer near you on www.eliet.eu).
- · For a list of original spare parts and their ordering codes please visit www.eliet.eu.
- Always make sure the engine is switched off and the battery has been disconnected before
 performing repairs or maintenance.
- Always wear suitable clothing for performing maintenance.

7.3.7 In harmony with nature

Use the machine in a manner that respects environmental regulations:

Avoid unnecessary machine running while not at work.

Avoid spillage of fuel while refuelling.

Service the engine regularly in order to achieve optimum combustion.

8. Dealer's duties



Warning:

As an ELIET dealer you must familiarize your customers with the operation of the machine and also point out the possible dangers while using it. You are expected to carefully go over the maintenance points of the machine together with the new owner. Repeat these instructions until the new owner has fully understood everything.

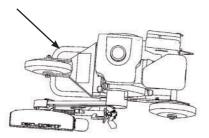
- ELIET machines are packaged in accordance with common rules for proper transportation.
 Deliveries are always ex factory. Consequently, ELIET cannot be held liable for any damage that occurs during transport.
- If the packaging is damaged upon receipt of the goods, check the state of the machine to
 ensure it is not damaged. Report any irregularities on the delivery order before signing for
 receipt.
- In case of damage to the machine a complaint to the shipping company must be submitted immediately after delivery.

8.1 Assembly

When the machine has been removed from its packaging, it is still not completely assembled. The dealer must finish the assembly. Below we provide a few guidelines:

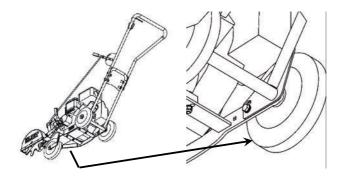
You will find the machine in the box with the handlebar underneath it.

The lower part of the push bar must be folded out and fixed with two bolts. $(M8 \times 20)$.

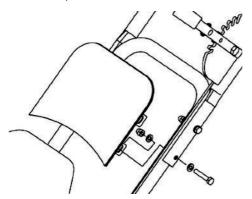


The upper half of the handlebar is then placed on the lower half. The operation lever remains on the side of the blade. Both blades are fixed to one another with two bolts (M6x45) and the nuts and locking rings (M6) supplied.

The rod that comes in the box connects the operation lever on the steering rack with the lever arm on which the blades are mounted.

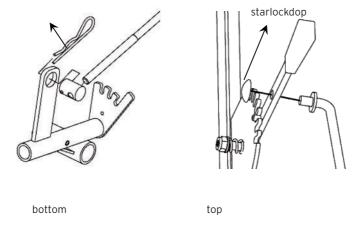


The rod is secured to the lever on top via a star lock fastener. Underneath the rod, there is a screw thread to which the connection piece must be screwed. This is used for precision adjustments to depth.



The axle pin on the connection piece is screwed into the hole in the lever arm and secured with a beta pin.

beta-speld



Finally, you need to test if everything works as it should.

8.1 Other duties

The dealer will set the belt tension according to the details in the maintenance section of the instruction booklet (§ 11.3.6 Belt tension adjustment)

Machines do not contain any oil or fuel when they are packed for transport. The dealer must check the oil level and refill if necessary according to the instructions in this manual (or those pertaining to the engine manual).

Every Eliet dealer warrants a long life span of Eliet machines. He will lubricate the hinges before delivering the machine to the client.

The revolutions per minute will be set at 3,200 rpm.

Finally, make sure that the warranty card is filled in completely and signed. The purpose is to avoid warranty disputes. Please read the warranty conditions for more details.

Please register your product online immediately after purchase to ensure that your warranty entitlement is activated. **(www.eliet.eu)**.

9. Operating instructions



9.1 Preliminary checks



Caution:

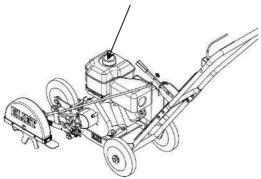
Try making a habit of checking the following points before getting to work with the machine:

Checklist

- 1. Check the oil level in the machine (see § 11.2.2 Checking the engine's oil level)
- 2. Check that the fuel tank is full. If not, fill it (see § 9.2 Adding fuel).
- 3. Check the air filter for excessive dirt (if necessary see § 11.2.3 Cleaning the air filter)
- 4. Make sure the bolts on the blade are secure.
- **5.** Check that the blade is in a good condition. If it needs to be sharpened, this must be done first. If you detect cracks or flaws in the blade, immediately install a new blade.
- **6.** Check that the machine is running at the rpm given (an rpm counter can be obtained from your ELIET dealer).
- 7. Check that all safety provisions on the machine are still operating properly. (See § 7.2 Safety features).
- **8.**Check that the engine cuts out when the safety lever on the steering rack is released. Once these items have been checked and approved, you can prepare the area of operation (see § 9.3 Preparing the work site) and move the machine to the work site.

9.2 Adding fuel

When the machine is running low on fuel it must be refuelled. The use of fresh petrol is recommended at all times.



Use unleaded petrol with an octane index of at least 85, but preferably 98 or 99. Use of any other fuel is prohibited. (Please check the engine manual)



Warning:

Under certain conditions, petrol is extremely flammable and highly explosive. Fire breakouts and petrol explosions can inflict severe burns and cause damage to personal property.

- Never refuel while the engine is running. Always allow the engine to cool down for several minutes before refuelling.
- · Use fresh fuel only.
- Given the limited shelf life of petrol, ELIET recommends purchasing small amounts.
- Store the fuel in an approved tank. Keep it out of reach of children.
- Store the petrol in a well-ventilated area, away from fire, sparks or heat sources.
- Never refuel at the location where the machine will be operated. Keep a distance of at least 10
 m from the selected work area in view of fire hazard.
- Clean the area around the fuel cap (1) and remove it. Don't fill the tank completely. Fill up to approximately 20 millimetres from the brim. So never fill it up to the brim.
- Always use a funnel or a spout for refuelling. Special funnels are available from your ELIET dealer.
- Put the cap back on the fuel tank as guickly as possible.
- Also ensure that clothing does not come in contact with the petrol. If this happens, it must be changed immediately.
- It is strictly prohibited to refill the tank around people who are smoking or near open fire.
- If fuel is swallowed or comes in contact with the eyes, consult a doctor immediately.

9.3 Preparing the work site

- · Clean up the area where the machine will be operated prior to starting the work.
- · Foreign objects are to be removed from the work area.
- The term 'foreign objects' is understood to mean: anything that is not organic or which breaches the maximum diameter given (e.g. metal, stone, plastic. rope, textiles...) Some of these items can cause serious damage to the machine or could be ejected as projectiles towards the user.
- · Remove cables from your working area so that they are not cut.

9.4 Starting the petrol engine



Caution:

Please read the safety instructions under § 7.3.



Caution:

Never start the engine if the cooling fins are dirty. The engine would heat up too quickly, which would pose a fire risk.



For your information:

For more information, please check the engine manual.

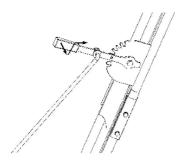


Warning:

Never start the engine in a closed environment. The exhaust fumes contain toxins that may cause poisoning or suffocation.

Always check the engine for adequate oil and fuel levels before starting it. If necessary read the following paragraphs:

- § 11.2.2 Checking the engine's oil level
- § 9.2 Adding fuel.
- check that all safeguards are installed correctly.
- set the blade to the highest setting (freewheeling)



How to proceed?



For your information:

For placement of the parts, please check the engine manual or § 6.2.

Open the throttle.

- b. Put the ignition to 'ON'.
- c. Close the choke.
- d. Pull the starter cord to start the engine.
- e. Quickly open the choke when the engine has engaged (to avoid the engine from receiving excess fuel).
- f. Leave the engine to warm up for a few seconds.

Failure to open the choke will cause the engine to slow down and to produce smoke. It will eventually come to a stop. The solution is to simply restart the engine without opening the choke.

The engine's failure to restart could indicate a soaked spark plug which then needs to be replaced.

9.5 Operating the machine

9.5.1 Prior to starting the work

- The operator must wear clothing, protective gloves and other protective attributes as prescribed in this manual (see § 7.3, General safety instructions).
- A good gardener works efficiently and according to a well defined plan. It allows him to keep an overview of his work and prevents accidents or wrong manoeuvres with the machine.
- Never run the engine in a closed environment in view of the risk of carbon monoxide poisoning from the exhaust.

9.5.2 Setting blade depth



Caution:

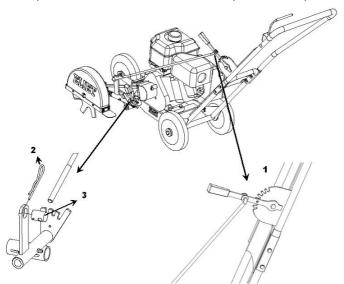
The blade must only be set if the engine is switched off

- · Push the steering rack downwards.
- Pull the depth regulation lever (1) out of its position. Do this by pulling the lever slightly to the
 left so that the pin comes out of the hole.

 Push it downwards until it reaches the desired setting (or the setting that gives the required depth).

There are 6 settings. The first two settings are for disengaging the clutch, the others are for setting the blade. The blade rises or falls by about 2 cm per setting.

- · Now compare the desired cutting depth with the actual cutting depth.
- Set the depth regulation lever in its highest setting.
- Pull the Beta pin (2) out and take the screw (3) out of the holder.
- Turn the screw to the left to raise the blade or to the right to lower the blade. (A 1 cm movement of the screw gives approximately 2 cm movement of the blade).
- · Now place the screw back in the holder and replace the Beta pin.



9.5.3 Setting the angle of the blade

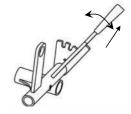


Caution:

The blade must only be set if the engine is switched off.

Follow the instructions below if you would like slanting edges on your lawn.

- Pull the depth regulation lever back as far as it will go (disconnect).
- Place the angle setting lever in the desired position by pulling the lever backwards and turning to the desired angle. The angle can be set at 0° - 25° - 45°



• Set blade depth. (§ 9.5.2 Setting blade depth)

If the ground is firm and has been finished well, it is preferable to cut the edges at an angle. This means that the ground will not be damaged and will retain its firmness.

A right angle is better for unfinished edges as this will give them a nice finish and will keep subsequent work to a minimum.

9.5.4 During work

- The operator must be alert while he's working. As long as he is operating the machine, his full attention must be on the job.
- Push the machine to the work area with the blades raised.
- Engage the blade.
- · Start the engine.
- · Once the engine is running, take the machine to the lawn edge.
- Put the machine in the correct position and engage the blade by lowering the lever on the handlebar from the uppermost position. Set the lever to the required depth setting.
- When engaging the blade, ensure that it does not immediately push into the lawn. Allow it to get up to speed alongside the lawn edge. Then cut the edge gradually.



Caution:

Always use the machine on the grass.



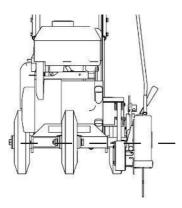
Warning:

Be particularly careful if you are in the vicinity of edging slabs or path edges (increased risk of blade breakage).



For your information:

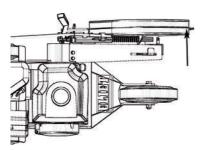
A piece of string can be used to ensure that edges are straight. If the front wheel continues along this string, the edge will follow the desired line. The wheel and the blade are perfectly aligned.





For your information:

The 'line' that the blade follows is given by the indicator on the cover (see diagram below).



When tensioning the cord, ensure there is a safe distance between the wheel and the blade.

9.6 Cleaning the machine

9.6.1 The importance of cleaning

ELIET recommends cleaning the machine after each use. We recommend performing an inspection each time you clean the machine to check component and machine integrity. It allows timely intervention and prevention of any defects, ensuring a longer service life of your machine.

Not cleaning the machine will lead to:

- · Increased wear
- · Increased risk of fire
- · Reduced motor cooling

- · Increased risk of short circuits
- Reduced performance
- Illegibility of safety stickers
- · Not noticing defects or wear at an early stage



Note:

Failure to perform the daily [sic] cleanup will result in loss of warranty.



Warning:

A machine functioning sub-optimally can compromise the operator's safety.



Caution:

Wear suitable clothing for cleaning activities. Utility gloves are essential.

9.6.2 What does cleaning entail?

Check the entire machine when cleaning and subject it to an inspection if required. Check that no parts have been deformed, that welded seams are not cracked and that parts do not exhibit excess play.

Any necessary replacement and/or repair works must be undertaken immediately. Visit your authorised ELIET dealer to have them carried out (find an authorised ELIET dealer near you on www.eliet.eu).

Cleaning the machine entails more than just cleaning the outside. Open all protective covers so that you can also clean the inside of your machine.

- Use penetrating oil with MoS2 to remove grease and lubricants. The latter is a lubricant and rust solvent at the same time.
- Using a dry cloth, remove any dirt form the frame. Particularly where safety stickers have been
 placed. (Do not use a cleaning agent that will remove paint or stickers)
- If safety messages on stickers have become illegible, please replace. Original stickers can be purchased from your ELIET dealer.
- Compressed air can be used to easily blow out and clean some parts.

- Pay particular attention to cleaning the engine. Cooling fins and air inlets are of key importance to guarantee adequate cooling of the engine.
- A steamer may be used for cleaning, Do not spray excessive amounts of water on the bearings, electric contacts and filler caps. Water is the number one cause of rust and this must be avoided at all times. Allow the engine to cool down properly before treating it with water.



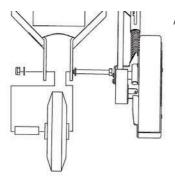
Caution:

Cleaning activities to the machine must always be carried out with the engine turned off. Wear suitable clothing for cleaning activities. Utility gloves are essential.

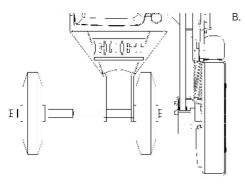
9.7 Options

9.7.1 Double front wheels

A double-wheel gives the machine extra stability and makes it easier to use, particular when cutting curved lawns.



A. DISMANTLING SINGLE FRONT WHEEL



ASSEMBLING DOUBLE FRONT WHEEL

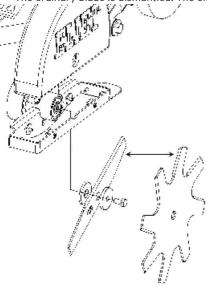
9.7.2 Eight-tooth disc

The standard machine is supplied with a classic straight blade.

For more delicate work you can replace the standard blade with an eight-tooth disc. This further reduces the risk of damage to borders, stepping stones and path edges.

The blade is mounted between two locking rings and fixed using a bolt.

The ordinary blade is dismantled. The eight-tooth disc is installed in its place.



10. Transporting the machine

- · Only adults are permitted to move or transport the machine.
- During transport children, unauthorised people or animals must not be allowed within a 2 m radius of the machine.
- · Leave all operational levers unchanged when moving the machine.
- The lawn edger can be pushed forwards.
- · Always transport your machine with its engine turned off.
- Avoid very rough terrain; the transport route is preferably flat, with an even surface.
- The engine does not need to be switched off for moving over short distances. The depth
 regulation lever MUST be in its highest position so that the blade drive disengages. Always be
 aware that the blade will not stop immediately. Wait until the blade has come to a complete
 standstill before moving the machine.
- For longer distances, it is best to turn the engine off. In order to do so, put the blade in its highest position so that the blade is no longer driven.
- The danger zone remains in effect while the machine is being transported.

11. Maintenance



11.1 General

ELIET recommends that the machine be brought to an official ELIET dealer for a major overhaul each year. (find an authorised ELIET dealer near you on www.eliet.eu). Your ELIET dealer is always at your service for maintenance and advice. He stocks genuine ELIET replacement parts and lubricants. His staff can always obtain advice and service from ELIET's help desk in order to provide you with an impeccable after-sales service.



Caution:

Only use original ELIET replacement parts. These service parts are manufactured according to the same strict quality requirements and craftsmanship as the original equipment. For a list of original spare parts and their ordering codes please visit www.eliet.eu

Perform maintenance in a room intended for this purpose. This room must be:

- Spacious
- · Dust-free
- · Easily accessible
- · Clean and tidy
- · Well lit
- · Quiet

These characteristics are important to properly carry out maintenance works.



Warning:

Maintenance performed in an incorrect manner may compromise the operator's safety. Damage or consequential damage that arises from insufficient or faulty maintenance will void the warranty. Maintenance must therefore be performed by expert and experienced engineers at all times.



Caution:

Maintenance work must only be carried out if the engine has been switched off and the battery disconnected (positive pole disconnected).



Caution:

Always wear safety gloves when performing maintenance. Safety goggles may be required for certain operations. These are supplied standard with the machine.

11.2 A routine check before each operation



Warning:

For your own safety, replace all safeguards after maintenance work is complete.

11.2.1 Visual check of the state of the machine

Check whether any parts have been deformed and check for torn welds and any excess play on parts. If problems are found, repairs must be carried out first.

11.2.2 Checking the engine's oil level

- · Take a clean cloth.
- · Pull the dipstick from the filler opening.
- The oil level will usually be hard to read immediately. Wipe the dipstick with your clean towel and re-insert it without fastening it.
- · Pull the dipstick out again; you will now get an accurate reading of the oil level.
- The oil sticking to the dipstick should be between the minimum and maximum mark.

11.2.3 Cleaning the air filter

The type of air filter may differ slightly depending on the engine brand and type.

- The air filter is located under the black protection cover, next to the fuel reservoir on the machine.
- · Loosen the black protection cover.
- There are two types of filters: the common sponge filter and a paper filter, similar to the air filter of a car.
- Sponge filters can be cleaned by rinsing them with some petrol and blowing them with compressed air.
- · Paper filters are cleaned by dusting them down or treating them with compressed air.
- · After cleaning, replace all parts in their original positions.

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Caution:

Should the machine have toppled over for some reason, you must set it upright again as soon as possible. The unusual position of the engine may have caused oil to seep from the crankcase via the carburettor onto the air filter. Oil on the filter paper obstructs the air passage and the filter must therefore be replaced.

11.2.4 11.2.4 Adjusting depth regulator

If it is not possible to achieve the desired depth with the depth settings provided, there is an option to precision adjust to the desired depth.



Caution:

The engine must be switched off and the spark-plug cover disconnected if precision adjustments are to be made to the height.

- · Place the height regulation lever in the position that comes closest to the desired depth.
- Undo the connector between the rod and the lever arm. To do so, pull out the beta pin.
- Turn the connector upwards on the screw thread to lift the blade at this depth setting. Turn the
 connector downwards to lower the blade at this depth setting.
- Replace the connector in its original location and lock it with the beta pin.



11.2.5Checking and tightening the blade bolts



Caution:

The engine must be switched off and the height regulator must be put in the highest position.

- The blade is mounted between two locking rings and fixed using a bolt (M8).
- The bolt tightness can be adjusted by holding the blade with one hand and using a 13 ring

11.2.6 Checking the blade and sharpening



Caution:

The engine must be switched off and the height regulator must be put in the highest position.



Caution:

Wear gloves when turning the blade in order to avoid injury.

- Turn the blade and check that there are no cracks in it. If there are, replace the blade immediately. Always use original ELIET machine parts.
- The blade must be undone in order to replace or sharpen it. Hold the blade fast and turn the M8 bolt anti-clockwise using a 13 ring spanner.
- When removing the blade, note the order of the machine parts that have been removed; this
 will simplify reassembly.
- In order to sharpen the blade, you are advised to consult the ELIET dealer as they will have the appropriate materials for balancing the blade after sharpening.
- When reassembling the blade, you must be aware of the blade's rotational direction.



Warning:

Always replace the blade in its original position and tighten the bolt sufficiently so that the blade cannot come loose during use.



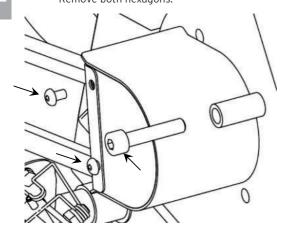
Warning:

Neglecting to perform this special maintenance may lead to the blade becoming loose during use. This will cause serious damage to your machine and also represents a huge risk of serious injury or death to the user or bystanders. All damage or subsequent damage caused as a result of this negligence falls outside the guarantee.

11.3 Checking after 50 hours of use

11.3.1 Removing the wheel guard

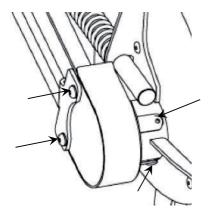
At the back (angle setting side)
Unscrew the inner hexagon from the engine block.
Remove both hexagons.



At the front (blade side)

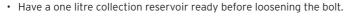
Unscrew both hexagonal M5 bolts.

Unscrew both hexagonal bolts.



11.3.2 Changing the oil

- Ensure that the engine is on an even surface and turned off.
- At the rear of the engine, below the engine foot, a bolt is affixed to the crankcase.





- Empty the full contents (approx. 0.6 l) from the engine.
- Replace the bolt on the drain. Wipe away any spilled oil with a clean cloth.
- Refill the engine with fresh 4 stroke oil. ELIET recommends a top quality high-detergent oil: SUNOCO DENALUBE SAE 20W50 API SF / CC.
- Pour 0.6 I of oil into the filler opening.
- Remove any spilled oil after filling. Before checking the oil level with the dipstick, leave the
 engine untouched until all the oil has found its way into the crankcase.
- Place the dipstick in the filler opening without fastening it. After pulling it out again, the oil
 attached to the dipstick should reach the maximum mark. If it doesn't, more oil must be added.



Warning:

Oil shortage inevitably causes severe engine damage.

11.3.3 Checking the sparking plug.

ELIET suggests the following spark plugs:

NGK BPM 7 A
CHAMPION BS 19 I M

- Turn off the engine and pull the cable from the spark plug.
- · Clean the area around the spark plug and remove the spark plug from the cylinder head.
- The distance between the electrodes is 0.8 mm.
- If the spark plug is heavily contaminated or dirty, it must be replaced.
- Complete the following steps to verify ignition quality:
- 1. Replace the spark plug cap on the plug.
- 2. Grab the rubber of the spark plug cap and press the outermost electrodes against the mass of the engine.
- 3. Pull the starter cord.
- 4. Check for sparks between the electrodes.
- 5. The spark plug is in good condition if the sparks are clear and neatly centred between the electrodes.
- 6. Weak, irregular and off-centre sparks indicate that the spark plug must be changed.
- Replace the new or old spark plug with care so as not to damage the screw thread. Secure the spark plug with a torque of 20 Nm.

11.3.4 Changing the air filter

- This procedure is exactly the same as for cleaning the air filter. (See § 11.2.3 Cleaning air filter).
- · Contact your ELIET dealer or authorised engine service centre to purchase the proper air filter.

11.3.5 Lubricating

For proper operation of the machine it is recommended to lubricate it at regular intervals. Lubricate hinges and friction points.

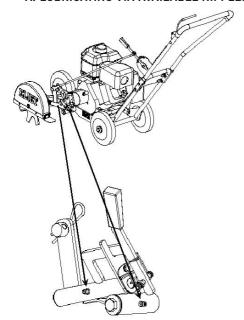
Lubrication nipples



Caution:

As for other maintenance, the engine must be switched off and the spark plug removed before performing any lubricating activities. Protective gloves must be worn.

A. LUBRICATING VIA AVAILABLE NIPPLES



How to proceed?

- Clean the nipple
- Push new lubricant through the nipple with a special lubricant pump.
- · ELIET recommends Sunoco Multi Purpose Grease.
- One or two pump-fulls will suffice to redistribute the new grease.
- Remove the grease that protrudes via the seams.

B. LUBRICATING WHEELS

- Use a ring spanner 17 to loosen the bolts that hold the wheels on the axle. Remove the wheel
 from the axle.
- Squirt penetrating oil on a basis of MOS2 onto the wheel axles and give it time to work in.
 Then clean the wheel axles with a clean cloth. Reapply grease (Sunoco Multi-purpose LR EP2 grease) using a brush. Do this to the bearings in the wheel too.

C. LUBRICANTS

Engine 1.1 I SUNOCO SUPER DENALUBE

SAE 20 W 50 API SF / CC

Hinges NOVATIO

WHITE SUPREME GREASE

Wheel axles SUNOCO GREASE

MULTI-PURPOSE LR - EP2

11.3.6 Belt tension adjustment



Caution:

When adjusting the belt tension the engine must be turned off and the spark plug cap removed.

The operation lever on the handlebar can be used to set depth as well as to engage the blade. You must ensure that the belt is not tensioned in the highest position. The blade must be disengaged in the highest setting.

The second position is a transition setting. Any tension put on the belt here is insufficient to be effective.

The actual working positions begin from the third setting. When going from the second to the third setting, the resistance can clearly by felt on the operation lever and it is quite obvious that the belt is tightening. If you cannot feel this tension, the tension must be reset (§11.4.2 Tightening the belt)

How to proceed?

- Switch the engine off and remove the spark-plug cover.
- · Put the depth regulator in its penultimate setting.
- · Use you finger to press the centre of the belt.
- This should move the belt by a maximum of 1 cm. If the movement exceeds this, the belt needs tightening.



- Pull the Beta pin (1) out and take the screw (2) out of the holder.
- Turn the screw in a clockwise direction to tension the belt.
- Now place the screw back in the holder and replace the Beta pin.

Check

Once the connector has been replaced and fixed in place and the lever is put into the third position, you can check whether the tension is sufficient: hold the belt fast with one hand and try to turn the blade with the other hand. If this is not possible, the tension is sufficient.

Replacing the belt

- If the belt has to be replaced, the protection guards and the protection plates must be removed.
- The protection guard on the engine is attached with 1 bolt that can be undone with an Allen key. The protection plate is secured using two bolts (M4).
- The protection cover on the blade head is secured with two bolts (M6) that are undone using an Allen key. The protection plate is also secured using two bolts (M4).
- If the belt is replaced with another, original belt, everything can be replaced in its original position.
- After assembly, check that the belt does not catch on the protection covers when the depth lever is set to a working position.

12. Storing the machine



Storage preparations

• Clean the machine (see § 9.6 Cleaning the machine).

Properties of a storage area

- The machine must be stored in a dry area away from precipitation.
- The temperature in the storage area must be between 5 °C and 40 °C.
- · Store the machine out of the reach of children.
- · Never leave the machine connected to the mains when storing.
- Never store the machine near heat sources or open flames. (Observe at least 2 m distance)
- If the machine is stored outdoors, it must be properly covered with canvas. Avoid direct precipitation on the machine. ELIET highly recommends a sheltered storage place.

Storina

- Always allow the engine to cool down before storage.
- When storing the machine for an extended period, we recommend that you follow the steps below:
- · Check all nuts and bolts and fasten them where necessary.
- To avoid rust on the machine, touch up all chipped areas or treat them with anti-rust grease.
 Original paints/enamels in the appropriate colours are available from your ELIET dealer.

13. Equipment specifications



Engine	4.0 hp B&S Series 550
-	5.0 hp Honda GP160
Blade	Steel dia. 240mm / 68 NiCrMo3
Rpm blade	2,550 rpm
Depth setting	max 80 mm
Angle setting	0° / 25° / 45°
Chassis	Steel 6 mm
Transmission	V-belt A 32.5
Dimensions (LxWxH in mm)	1,270x460x920 mm
Weight	34 kg
Transmission	V-belt A 32.5
Accessories	8 tooth blade (dia. 240 mm)
	Double front wheels

Appendices:

B1 Maintenance schedule

This list contains the minimum routine maintenance that must conducted to keep the machine in good condition. Necessary repairs or replacements after breakage or breakdown must be carried out in addition to this maintenance.

Routine maintenance	Maintenance after 100 hours	Maintenance after 50 hours	Daily mainte- nance
Clean the machine	Х	Х	х
Inspect the blades and sharpen if necessary	X	х	х
Check the machine for signs of abnormal wear or fractures.	X	х	х
Check the oil level		Х	х
Check air filter			х
Adjust depth regulator			Х
Check blade bolts			х
Clean air filter		х	
Check belt tension		х	
General lubrication treatment		Х	
Change the oil	Х		
Replace air filter	Х		



Warning:

Neglecting to conduct routine maintenance may cause a machine to stop working effectively. Damage can be caused and the risk to the operator or third parties may be increased. ELIET EUROPE NV cannot be held liable for the consequences of neglecting to carry out maintenance. The warranty may also be nullified as a result.

B2 List of torques

Bolt head according to DIN 931,912 ed.	Thread	Strength	
		8.8	10.9
Normal thread	M4	3.0	4.4
	M5	5.9	8.7
	M6	10	15
	M8	25	36
	M10	49	72
	M12	85	125
	M14	135	200
	M16	210	310
	M18	300	430
	M20	425	610
	M22	580	820
	M24	730	1050
	M27	1100	1550
	M30	1450	2100
Fine thread	M8 x 1	27	39
	M10 x 1.25	52	76
	M12 x 1.5	89	130
	M14 x 1.5	145	215
	M16 x 1.5	225	330
	M18 x 1.5	340	485
	M20 x 1.5	475	680
	M22 x 1.5	630	900
	M24 x 2	800	1150
	M27 x 2	1150	1650
	M30 x 2	1650	2350

(with friction factor \leftrightarrow = 0.14)

B3 B3 EC Declaration of Conformity

Machine: Edger

Type: ELIET KS240 STD

Model number: MA 010 020 121

MA 010 020 230

This machine has been designed and manufactured in accordance with the following European standard:

EN 786 - GARDEN EQUIPMENT - ELECTRICALLY POWERED WALK-BEHIND AND HAND-HELD LAWN TRIMMERS AND LAWN EDGE TRIMMERS - MECHANICAL SAFETY

The ELIET machine factory hereby declares that after performing a hazard analysis, it is fully aware of the potential hazards and risks associated with the machine. In this knowledge, the necessary steps have been taken in line with Machine Directive 2006/42/EC in order to ensure absolute operator safety for the operator, when the machine is used correctly.

The assessment of the sound power level and the guaranteed sound power level as determined in European Directive 2000/14/EC annex III/B/24 was carried out in accordance with the measurement instructions of EN13 683

Measured sound power level: 95 dB(A)
Guaranteed sound power level: 96 dB(A)



Frederic LIETAER

Managing Director ELIET EUROPE NV

ELIET EUROPE NV

Diesveldstraat 2

BE - 8553 Otegem Belgium

Ph. +32 56 77 70 88 - Fax +32 56 77 52 13

info@eliet.eu - www.eliet.eu

B 4. Warranty conditions

Dear Customer,

Thank you for placing your confidence in ELIET. We are convinced that the appliance you have chosen will fulfill your needs and expectations over the coming years. ELIET is committed to guaranteeing the good performance of its products.

What is warranty?

ELIET's product design and manufacture procedures are subject to strict quality guidelines, aimed at **guaranteeing** a long product life and permanent safety. To ensure this, ELIET will repair any **hidden defects or abnormalities** throughout the warranty period, provided you **use your machine as instructed.**

Warranty conditions

ELIET's warranty obligation

s for new machines is governed by the following conditions.

I. Warranty period

The warranty period starts the day the dealer delivers the machine to the customer (date of invoice) and expires

- · after two years of private use.
- · after twelve months or 100 running hours* of rental use.
- after twelve months or 100 running hours* in semi-professional or in professional use.
 To be eligible to obtain warranty the customer is invited to register the newly purchased machine with ELIET. You should complete the registration online on Eliet's webiste: www.eliet.eu

* what is reached first

II. Non-applicability of the warranty

- Wearing parts like knives, bearings, belts, chains, cogwheels, tires, lamps, fuses, etc. are not
 covered by the warranty.
- When the defect is shown to be caused by improper handling, improper use, negligence or consequential damage that occurs as a result of external influences (fall, broken stones, foreign object, accident).
- When the defect is shown to be caused by a lack of periodic maintenance or cleaning of reinigen
 van de machine in accordance with the prescribed periodic maintenance.
- If it turns out that the defect was caused by acting against the instructions or advice of the user manual in.
- When the defect occurs after a repair by an unofficial ELIET dealer or a repair using parts that are not original ELIET parts.
- When the defect is shown to be due to the unauthorized modification of the machine's original construction.

- When the defect occurs after use of the machine contravening the instructions for use in the manual.
- When the warranty procedure is not followed or after the end of the warranty term.
- For all problems relating to the motor, please contact an authorized service centre of the engine manufacturer.

III. Procedure

- Step 1: On the date of purchase, the customer should register his/her purchase online by completing the registration card at www.eliet.eu.
- **Step 2:** In the event of a defect becoming apparent, the customer shall have this verified by the authorized ELIET dealer. If the dealer feels that there is a factory defect, the dealer may invoke the warranty, under the terms specified.
- Step 3: Every warranty application must be accompanied by a fully completed official application
 form. Copies of this warranty application are available to dealers at ELIET or even at an importer/
 agent.
- **Step 4:** The dealer then orders the parts needed to perform the repairs. Next, the dealer faxes the order form together with the completed warranty form.
- Step 5: The warranty form should be stapled to the purchase invoice and mailed to ELIET or an
 importer/agent of ELIET.
- Step 6: ELIET will send the parts ordered to the dealer under the regular delivery and payment conditions.
- Step 7: The defective part will be examined by the technical department first prior to approving
 or rejecting the warranty. ELIET reserve the right to solely decide whether or not the customer
 has complied with the conditions for the validity of this warranty, i.e. 1 year or 2 years. Faulty
 components shall become the property of ELIET.
- **Step 8:** When a warranty claim is found to be valid, ELIET will credit the warranty parts. Customers shall never be entitled to apply for a refund of labour costs.

IV. In case of damage caused by transport

- All goods are supplied ex factory. Transport risks are borne by the customer. It follows, that ELIET highly recommend to check the goods for damage on arrival.
- Any damage found should be stated on the delivery form before signing. Make sure the driver of the haulage company puts his signature next to the damage on your copy.
- In the absence of a written and signed declaration on the delivery form, the insurance of the haulage company will not accept any liability.
- Damages can be claimed from the hauler using a copy of the delivery form and a covering letter stating your complaint.
- The damaged machine should be kept in its original condition until the hauler's insurer has performed any examination.

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RODUCTS - SERV	DEALERS .	SECOND HAND ABOUT ELIET • PRODUCT REGISTRATION LOGIN
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Machine -		
Machine	choose here	▼ Is your machine not mentioned in this list ? Then contact Ellet at +32 56 77 70 88 or info@ellet.eu
Serial number:		
Date of purchase	30/09/2015	
General information		
This machine will mainly		
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	O rental	
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measuring:	© 50 - 200 m² © 200 - 1000 m²	
	© 1000 - 5000 m²	
	○ > 5000m²	
Name dealer		
Did the dealer give you s	ufficient information on the operat	ion of the machine?
	O Yes O No	
	the maintenance schedule with y	

@ Yes @ No

🗷 I give my consent to use my personal data for administrative reasons

