

# **STALKER SO 122**

# Instructions notice (Original)



#### **MEAN GREEN - MGE GREEN SERVICE**

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#### I. GENERAL INFORMATION

This INSTRUCTIONS NOTICE (operating manual) applies to the following MEAN GREEN products: MEAN GREEN mower type STALKER SO 122 Zero Turn model (Z or ZTR).

# To the new operator

The purpose of this INSTRUCTIONS NOTICE is to assist owners and operators in maintaining and operating the mower. Please read it carefully; information and instructions furnished can help you achieve years of dependable performance.

It is the **owner's responsibility** to make certain that the operators and mechanics read and understand this manual and all decals before operating this machine.

It is also the **owner's responsibility** to make certain that the operators and mechanics are qualified and physically able individuals, properly trained in the operation of this equipment. All operators and mechanics must become familiar with the safe operation of the equipment, operator controls and safety signs.

Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator. The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

# **Using this INSTRUCTIONS NOTICE document**

General operation, adjustment and maintenance guidance is outlined for both the experienced and novice Mean Green Mower user. Operating conditions vary considerably and cannot all be addressed individually. Through experience, however, operators should find no difficulty in developing good operating skills suitable to most conditions.

Directions used in this manual, for example RIGHT or LEFT, refer to directions when seated on the mower/standing facing forward, unless otherwise stated. Photographs and illustrations used were current at the time of printing, but subsequent production changes may cause your machine to vary slightly in detail.

MEAN GREEN reserves the right to redesign and change the machine as deemed necessary, without notification. MEAN GREEN reserves the right to redesign and change the machine as deemed necessary, without notification. If a change has been made to your machine which is not reflected in this owner's manual, or the parts manual, see your MGE MEAN GREEN approved dealer for current information and parts.





# II. INFORMATION RELATED TO WARRANTY

# 1. Warranty registration

- a. The Owner must register the unit by filling out the WARRANTY REGISTRATION FORM and the DELIVERY & FIRST STARTING FORM, provided in the owner's packet, to validate your warranty protection. It MUST be completed and MUST be signed by the authorized dealer and the original purchaser.
- b. For confirmation, the WARRANTY REGISTRATION FORM and the DELIVERY & FIRST STARTING FORM MUST be transmitted to MGE MEAN GREEN within ten (10) days following the delivery date to the original customer.
- c. In absence of delivery-date the purchase date is taken as the delivery date.

# www.mge-greenservice.com

MGE MEAN GREEN

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Be sure to register the mower plus each attachment that displays a model and serial identification number plate with Mean Green Products.

<u>IMPORTANT</u>: Any unauthorized modification, alteration, or use of non-approved attachments voids the warranty and releases MEAN GREEN from any responsibility and liability arising for subsequent use of the equipment.

#### Model and serial number

The mower serial number is found on the CE identification plate (Fig. A) located on the rear right-side wall over the operator platform. The model is the type of MEAN GREEN mower purchased i.e. STALKER SO 122 stand-on-mower. The serial numbers and model are required on the Warranty Registration Form and on the Delivery & First starting form. They will also assure you on the correct service parts when replacement becomes necessary



#### Parts and service

All warranty repair and service must be handled through an authorized MGE MEAN GREEN dealer. Arrangements should be made through your local service center.



CE plate location

Fig. A

MEA	N FORM
REGISTRATIO	N FORM
DEALER:	
Model**	Serial Number***
LEM 48140	
LEM 48140	
LEM 48140	
	Model**  LEM 48140  LEM 48140



# 2. What is covered by this warranty?

MGE MEAN GREEN makes the following warranty to the original purchaser of mowers manufactured by MEAN GREEN:

# A. Residential use (by home owner not being a professional):

MEAN GREEN Mowers used for normal **residential purposes** are warranted for **two (2) years or 1200 hours total usage (whichever comes first) from date of delivery** on all materials and workmanship. If the Purchaser discovers within this warranty period (two years from date of delivery) a defect in materials or workmanship, he must promptly notify MGE MEAN GREEN or an authorized dealer, in writing of the defect.

In no event shall such notification be received by MGE MEAN GREEN, or an authorized dealer later than twenty-four (24) months from date of delivery. Within a reasonable time after such notification, MGE MEAN GREEN, will correct any defect in material or workmanship on the MEAN GREEN mower by repairing or replacing part(s) with either new or used replacement parts. Such repair, including parts and labor shall be at the expense of MGE MEAN GREEN.

**Green Lithium Batteries** are warranted for a three (3) year pro-rated limited warranty or 1200 hr. usage, whichever comes first to the original owner **(consumer)** only.

1st year 100% Parts and labor 2nd year 100% Parts and labor 3<sup>rd</sup> year Parts only (cells/BMS)/no labor

<u>NOTE</u>: Failure to properly maintain batteries and keep them from one-half to fully-charged will reduce battery life and will void battery warranty.

# Provisions of this limited Green Lithium Batteries warranty shall not apply due to:

Abuse or neglect such as water damage, loose wiring, or rusted or corroded hardware; lack of proper maintenance; damage caused by improper installation of the battery, dismantling of battery, apparent outside force damage, operator not following manual instructions, expired warranty period, neglect, breakage, sub-zero freezing, fire, explosion, wreckage, the addition of any chemical, operation of the battery in an overcharged, or the operation of the battery in an uncharged condition (use after BMS shuts off battery); and a battery charged by systems other than the original equipment type battery charger.

#### **Provisions that constitute Green Lithium Batteries Warranty:**

- Battery pack cannot be charged or discharged.
- Under the standard condition for testing, capacity is less than 80% of nominal AH rating in the first year, 70% of nominal AH rating in the 2<sup>nd</sup> year, 65% of nominal AH rating in 3<sup>rd</sup> year.
- Liquid leakage.
- Damage to battery pack's case and/or accessories due to conditions caused by the battery.

DELIVERY & FIRST STARTING FORM

Service before delivery:

This machine has been carefully prepared by the dealer under Mice MEAN GREEN INSTRUCTIONS before delivery to the customer.

Service upon delivery

Diserting and maintenance of this machine have been explained to the customer who has been duly informed about potential risks related to the operation of this machine and about safety instructions to respect.

INSTRUCTIONS NOTICE has been presented to the bustomer, who has agreed to read it before the first use of the machine and to expressly respect all instructions of this notice.

The MAINTENANCE SERVICE MANUAL has been provided to the customer who agrees to make all the machine malintenance with his multiprized MIGE MEAN GREEN dealer according to technical instructions.



#### B. Commercial use:

MEAN GREEN mowers used for commercial and institutional use are warranted for **two (2) years or 1200** hours total usage (whichever comes first) from date of delivery on all materials and workmanship of chassis and deck structures and **one (2) years or 1200** hours total usage (whichever comes first) from date of delivery on all other components with the exclusion of wear parts. If the Purchaser discovers within this warranty period a defect in materials or workmanship: He must promptly notify MGE MEAN GREEN, or an authorized dealer, in writing of the defect. In no event shall such notification be received by Mean Green Products, or an authorized dealer later than twenty-four (24) months from date of delivery. Within a reasonable time after such notification, MGE MEAN GREEN, will correct any defect in material or workmanship on the MEAN GREEN mower, by repairing or replacing part(s) with either new or used replacement parts. Such repair, including parts and labor shall be at the expense of MGE MEAN GREEN.

**Green Lithium Batteries** are warranted for a three (3) year pro-rated limited warranty or 1200 hr. usage, whichever comes first to the original owner (**commercial**) only.

1st year 100% Parts and labor 2nd year 100% Parts and labor 3<sup>rd</sup> year 100% Parts only/no labor

<u>NOTE</u>: Failure to properly maintain batteries and keep them from one-half to fully-charged will reduce battery life and will void battery warranty.

#### Provisions of limited Green Lithium Batteries warranty shall not apply due to:

Abuse or neglect such as water damage, loose wiring, or rusted or corroded hardware; lack of proper maintenance; damage caused by improper installation of the battery, dismantling of battery, apparent outside force damage, operator not following manual instructions, expired warranty period, neglect, breakage, sub-zero freezing, fire, explosion, wreckage, the addition of any chemical, operation of the battery in an overcharged, or the operation of the battery in an uncharged condition (use after BMS shuts off battery); and a battery charged by systems other than the original equipment type battery charger.

#### **Provisions that constitute Green Lithium Batteries Warranty:**

- Battery pack cannot be charged or discharged.
- Under the standard condition for testing, capacity is less than 80% of nominal AH rating in the first year, 70% of nominal AH rating in the 2<sup>nd</sup> year, 65% of nominal AH rating in 3<sup>rd</sup> year.
- · Liquid leakage.
- Damage to battery pack's case and/or accessories due to conditions caused by the battery.

#### C. Rental use:

MEAN GREEN mowers and Green Lithium Batteries used in rental applications are warranted for **one (1)** year or 600 hours total usage (whichever comes first) from date of delivery.



# 3. Who must perform the MEAN GREEN Warranty Service?

All warranty service will be performed by dealers or owner mechanics authorized by MGE MEAN GREEN. **Service calls and/or transportation expense** of the product to and from the authorized dealer or owner mechanics for warranty work, will be paid by the owner of the product. For warranty service contact an authorized dealer.

# 4. What is not covered by this MEAN GREEN Warranty?

MGE MEAN GREEN, does not warranty:

- Some products, components or parts not manufactured by MEAN GREEN.
- Repairs made by unauthorized persons.
- Damage caused by use of the MEAN GREEN mower for purposes other than those for which it was designed.
- Damages caused by disasters such as fire, flood, wind, and lightning.
- Damages caused by neglect, abuse, abnormal use, improper or unreasonable use, accident, negligence, or misuse such as water damage.
- Repairs or replacement resulting from the use of unauthorized parts, accessories or attachments.
- Repairs or replacement as the result if any alterations or modifications, in the determination of the MEAN GREEN mower, which adversely affects the operation, performance or durability of the equipment.
- The Mean Green Mower which has the serial number removed or made illegible.
- Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow the product's owner's INSTRUCTIONS NOTICE, maintenance and adjustment instructions or other operational instructions provided by MGE MEAN GREEN.
- Normal maintenance parts and service including, but not limited to, lubricants, blades, blade sharpening, bearings, brake or steering adjustments.

#### 5. Conditions related to Warranty

#### **DISCLAIMER OF WARRANTY**

The foregoing warranties are in lieu of all other warranties, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

All MEAN GREEN product for which the Warranty registration form has not been dully provided within a ten (10) days period following the Delivery & First starting date by authorized MGE MEAN GREEN dealer is excluded of MGE MEAN GREEN Warranty.

MGE MEAN GREEN reserves the right to request from the authorized MGE MEAN GREEN dealer, prior to the supply and the first starting of the MEAN GREEN mower, precise information regarding the end customer (name, address, etc.) owning warranty rights on the said mower.

#### **LIMITATION OF REMEDIES**

In no case shall MGE MEAN GREEN, be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.

Such damages include, but are not limited to:

- Loss of profits
- Loss of savings or revenue
- Loss of use of the Mean Green Mower or any associated equipment
- Cost of capital
- Cost of any substitute equipment, facilities, services or downtime
- The claims of third parties including customers, and injury to property



#### **TIME LIMIT**

Any action for breach of warranty must be commenced within twenty-four (24) months following delivery of the goods in a **residential or commercial** application. Any action for breach of warranty must be commenced within twelve to twenty-four (12-24) months following delivery of the goods in a **rental** application.

#### **NO OTHER WARRANTIES**

This agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement.

#### **ALLOCATION OF RISKS**

This agreement allocates the risks of product failure between MGE MEAN GREEN and the purchaser. This allocation is recognized by both parties and is reflected in the price of the goods.

#### **OWNER'S RESPONSIBILITY**

You must maintain your MEAN GREEN mower following the maintenance procedures described in your owner's INSTRUCTIONS NOTICE (operating manual). Such routine maintenance, whether performed by a dealer or by you, is at your expense.

This machine like any other powered equipment is potentially dangerous unless properly operated. Any operator must be cautious and keep safety in mind at all times. Any operator, prior to using the MEAN GREEN mower, should thoroughly familiarize himself with the owner's manual regarding operation and safety of the machine, as well as all safety warnings on the machine itself.





# III. TECHNICAL DATA

STALKER SO 122					
Weight with batterie(s)	382 kg (2 batteries)		Batterie(s) 48 V		
Weight with batterie(3)	330 kg (1 battery)	Electrical system	Power 7,9 kW		
Weight without battery	278 kg		equivalent 24 HP		
	L = 1397 mm	Drive transmission	2 electric motors		
Dimensions L x W x H	W = 1257 mm	Blade rotors	1 motor per rotor		
	H = 1067 mm	Lithium-ion batterie(s)	LEM 48140 140 Ah		
Cutting width	tting width 1220 mm Au		7 hours (2 batteries)		
	Side discharge	battery)	3 ½ hours (1 battery)		
Types of cut	Rear discharge	Charger	220 V 35 A		
	(with mulching kit)		8 hours (2 batteries)		
Number of rotors	3	Charging time	4 hours (1 battery)		
	3 clockwise rotation	- Options	LED light		
	(side discharge)		Front blower		
Number of blades	2 clockwise rotation +		Aluminium grass catcher		
Number of blades	1 anti-clockwise rotation (rear	Warranty on battery	3 years or 1200 hours*		
	discharge)	Warranty on chassis	2 years or 1200 hours*		
Rotation speed 3250-3450 RPM		*Excepted wear parts up	on maintenance program		
Height of cut with 25 mm to 114 mm mechanical setting 15 positions		performed by approved MGE MEAN GREEN dealer**			
Ground speed	0 to 13 km/hour	**Dealer with electrical accreditation provided by certified body + MGE MEAN GREEN technical training			

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#### IV. SAFETY

# 1. Safety instructions



This safety alert symbol is used to call attention to a message intended to provide a reasonable degree of **PERSONAL SAFETY** for operators and other persons during the normal operation and servicing of this equipment.

**DANGER** (red color) – denotes immediate hazards which WILL result in severe personal injury or death.

**WARNING** (yellow color) – denotes a hazard or unsafe practice which COULD result in severe personal injury or death. This manual uses two other words to highlight information.

IMPORTANT (blue color) calls attention to special mechanical information and...

**NOTE:** emphasizes general information worthy of special attention.

All operators and mechanics should read this manual and be instructed about safe operating and maintenance procedures. If the operators or mechanics cannot read and understand English, it is the owner's responsibility to explain this material to them.

However, improper use or maintenance by the operator or owner can result in injury. To reduce the potential for injury, comply with these safety instructions and always pay attention to the safety alert symbol, which means DANGER or WARNING - "personal safety instructions." Failure to comply with the instructions may result in personal injury or death. Incorrect usage of this machine may result in severe injury. Personnel operating and maintaining it should be trained in the proper use and should read the INSTRUCTIONS NOTICE completely and thoroughly before attempting to set-up, operate, adjust, or service this machine.

It is the **owner's responsibility** to make certain that the operators and mechanics read and understand this manual and all decals before operating this machine. It is also the **owner's responsibility** to make certain that the operators and mechanics are qualified – electrical accredited – and physically able individuals, properly trained in the operation of this equipment. All operators and mechanics must become familiar with the safe operation of the equipment, operator controls and safety signs. Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator. The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property. The owner should also ensure that the operator/mechanic know that they are responsible for their own safety as well as the safety of other persons within the vicinity.

Remember, the operator is responsible for accidents or hazards occurring to other people or their property.

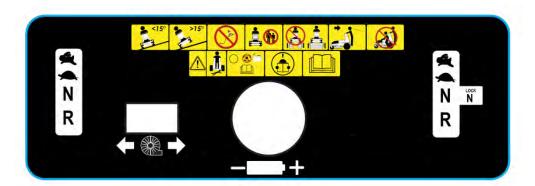
# 2. Safety and Instruction Decals

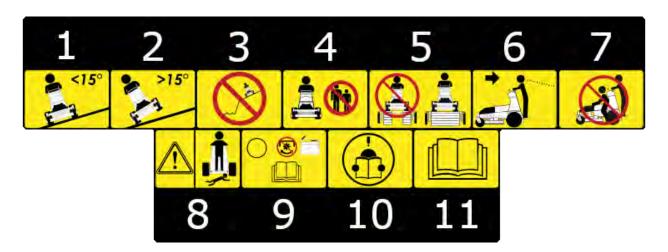
Specific safety warning decals are located on the equipment near the immediate areas of potential hazards. These decals should not be removed or obliterated. Replace them if they become non-readable.

The following illustrations show the various decals that are located on the machine. A brief explanation, for those requiring one, is shown to help the operator understand the meanings of these decals.

# Read Owner's Manual and Safety Warning Decals before attempting to operate this machine.

Top Control Panel MGUPN192





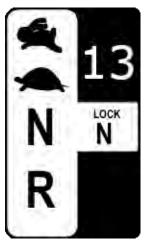
- 1. Mow on slopes less than 15° to prevent rollover
- 2. Mowing on slopes greater than 15° can cause rollover of the mower
- 3. Do not mow near drop-offs or steep grades
- 4. Do not mow around people
- 5. When using a ramp, use a single ramp rather than dual ramps
- 6. When in reverse, always make sure to look behind
- 7. No passenger should ride on the mower during operation
- 8. Be careful of small children that could be behind the mower
- 9. When turning off the mower, make sure the PTO is off and the controls are in the N Lock position
- 10. Read and learn the manual before operation of the mower
- 11. Refer to the manual when needed





12. Left Handlebar position for operation.

When the handlebar is moved in the forward position, the mower will move forward. The distance traveled forward will correlate with the speed. Moving the handlebar forward slightly will move the mower forward slowly. Moving the handlebar to the farthest forward position will make the mower move at its fastest forward speed. When the handlebar is in its neutral position, it will not move. When the handlebar is moved towards the rear, the mower will go in reverse.



13. Right Handlebar position for operation. When the handlebar is moved in the forward position, the mower will move forward. The distance traveled forward will correlate with the speed. Moving the handlebar forward slightly will move the mower forward slowly. Moving the handlebar to the farthest forward position will make the mower move at its fastest forward speed. When the handlebar is in its neutral position, it will not move. When the handlebar is moved towards the back, the mower will go in reverse. Placing the handlebar in the outward position will put the mower in to the neutral lock position. PTO blade power must be cycled off and back on to continue blade operation.



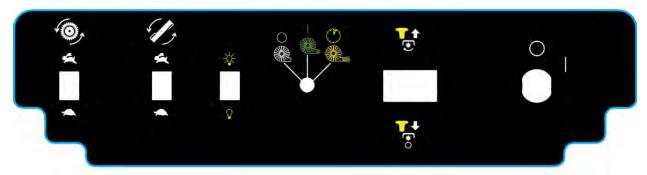
14. Change direction of blower nozzle if front blower (optional) installed



15. Battery capacity gauge

#### MGUPN191

# Front control panel





#### 16. Drive speed Hi-Lo

Press the switch towards the rabbit icon to increase the speed of the drives. Press the switch towards the turtle to decrease the speed of the drives.



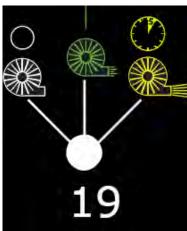
#### 17. Blade speed Hi-Lo

Press the switch towards the rabbit icon to increase the speed of the blades. Press the switch towards the turtle to decrease the speed of the blades.



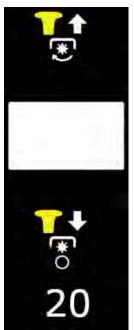
#### 18. Optional light switch

Press the switch forward to turn on the light. Press the switch backwards to turn off the light.



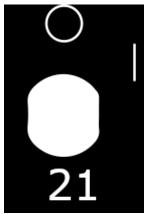
#### 19. Optional blower speed switch

When the blower speed switch is set towards the left side, the blower will be set to off. When the switch is set to the middle or center, the blower will be set to run. The blower will blow at a normal rate and speed. When the switch is set to the right side, the blower will be set to boost. Once the blower runs at boost, it will blow at a high speed. Limit Boost speed to 5 minutes at a time for proper motor cooling.

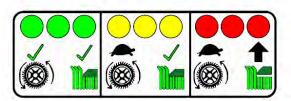


#### 20. PTO ON and OFF

When the PTO switch is pulled, it will engage the blade rotation. When the PTO switch is pressed down, it will disengage the PTO switch and stop the spinning blades.



21. Master power switch. Turn to right to activate mower power.



MGUPN186: Blade Indicator Light Decal If the blade indicator lights show up as green, the drive speed and deck height are good. If the blade indicator lights are yellow, the drive speed will have to be decreased, but the deck height is fine. If the lights show up as red, the drive speed must be decreased, and the deck height must be increased.



MGUPN187: Battery Connection to the Mower. Disengage here when servicing.



MGUPN188: Wear ear and eye protection during operation of the mower. Read and learn manual before operation.

<u>Cleaning</u>: do not use high pressure washer.





MGUPN189: Make sharp turns slowly, taking sharp turns fast can result in rollover.



MGUPN190: The torque values for the nut that secures the blade.



MGUPN193: No passenger should ride on the mower during operation.



MGUPN079: CAUTION! Surfaces in the electrical bay may be hot to the touch and can cause burning. Do not wash the electrical components inside the mower. There is a shock hazard from components in the electrical bay.



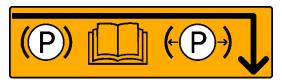
MGUPN067: CAUTION! Keep the chute down on the deck to prevent flying objects from injuring or hitting people.



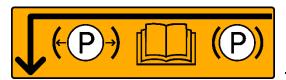
MGUPN068: DANGER! Hand and foot danger around deck area.

U.S. PATENT 10,130,037

MEAN GREEN MOWERS: ELECTRIC MOWER APPARATUS MGUPN080: Patent for the mower.



MGUPN081: Left parking brake decal. Slide and latch bar to right to manually disengage brake. Always re-engage brake before operating machine



MGUPN082: Right parking brake decal. Slide and latch bar to left to manually disengage brake. Always re-engage brake before operating machine.







# 3. Disconnecting the batteries (LITHIUM-ION)

Switch off the machine during any maintenance, repair, cleaning and during transport of the mower!!



WARNING: Do not smoke during battery maintenance.

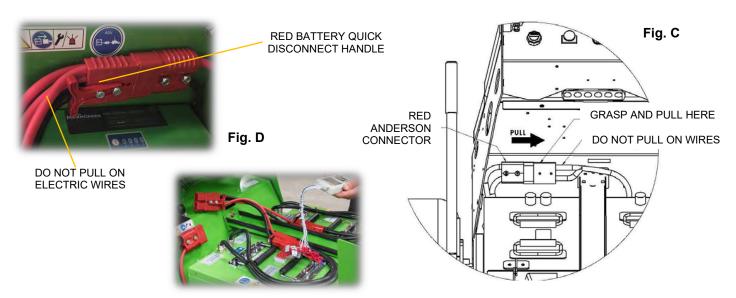
NOTE: ALWAYS disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment before ANY KIND OF maintenance is performed on mower unit.

- **a.** Open battery compartment and lift up battery cover to expose Lithium-lon Batteries compound of 13 Modules of 7 Cells.
- b. Grasp the RED BATTERY QUICK DISCONNECT HANDLE by wall of mower (Fig. D).
- c. Pull REARWARD on lever until disengaged from wall plug (Fig. D).
- d. Unplug all red battery connectors by grasping each red plug and pull apart.

DO NOT PULL ON BATTERY CABLES!! ONLY pull on connectors!!



#### **RED BATTERY QUICK DISCONNECT HANDLE**



#### PROCESS TO ELECTRICALLY LOCK-OUT equipment prior any work of electrical accredited technician





Full respect **regulations** of the country and **internal proceeding of some public or private organization** regarding the electrically lock-out proceeding by authorized personnel before any maintenance work onto electric devices of the machine.

MGE MEAN GREEN and its authorized dealer network have set proceedings of electrical accreditation depending on technical levels of specific maintenance and on their respective personnel.



# 4. Dealer network training – Electrical accreditation

The authorized MGE MEAN GREEN dealer network must follow all provided technical and sales training. Electrical accreditation is required for some maintenance operation to be done on electrical devices. Please contact MGE GREEN SERVICE or your authorized MGE MEAN GREEN dealer for any complementary information you may need.

#### **REQUIRED ELECTRICAL ACCREDITATIONS: DEKRA training session (example of MGE)**

**BOL**: TBT-BT\* - Worker being not electrician, trained and accredited **BCL**: TBT-BT\* - Responsible of electrical lock-out, trained and accredited

BRL: TBT-BT\* - Electrician in charge of low-voltage operation, trained and accredited

B2VL: TBT-BT\* - Electrician in charge of work, trained and accredited

B2XL: TBT-BT\* - Worker in charge of specific operations, trained and accredited

#### V. ELECTRICAL SYSTEM

# 1. Electrical system safety



MGUPN072: Disconnect the battery before maintenance or in an emergency. If the steps are not performed, there is a chance for injury.

Remove key, disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment and read owner's manual before adjusting or repairing unit.

Always remove switch key and disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment before working on this ride-on mower.

Always disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment when transporting unit.

Keep unit free of grass clippings, leaves and other debris. **DO NOT spray water in electrical compartment to clean unit. Use only compressed air**. Wear adequate eye protection when cleaning the unit. Always wear safety glasses and protective gear near batteries. Use insulated tools. Clean by means of blowing or air vacuum the battery compartment, drive motor compartment, mower deck, seat etc. of all dirt and debris. **Do not spray battery/electronics compartment with water.** Use only compressed air or blower.

**Avoid injury**. With switch key in ON position mower blade can engage when deck switch is engaged, even if drive motor is not turning. Keep area clear of bystanders when engaging blade switch.

All maintenance and storage areas should be properly ventilated in accordance with applicable fire codes and ordinances to avoid fire hazards. Never allow flames, sparks or smoking near batteries.

**Keep batteries out of reach of children**. Always keep protective shields, covers and guards in place and securely fastened. If they become damaged, repair or replace immediately. **Never modify or remove safety devices.** 

# 2. Electrical system information

The MEAN GREEN mower is powered by a 48-volt electrical system. It consists of the following components:

- **1.** Deck controllers (quantity = 3)
- 2. Deck motors (3)
- 3. Drive controller right (1)
- 4. Drive Controller left (1)
- 5. Digital battery display (1)
- **6.** Integrated electric transaxle (2)
- 7. Lithium Energy Modules (LEMs) (quantity = 1 or 2 batteries)

# 3. Component maintenance

IMPORTANT: Maintenance for the various electrical components found on the MEAN GREEN mower should only be performed by a MEAN GREEN trained technician having all required electrical accreditations. Please contact your MGE MEAN GREEN authorized dealer network to this subject.

**IMPORTANT**: When battery voltage becomes low, drive motors will slow to "creep" mode (3,5km/h.). When the batteries discharge to this point, they require recharging. The mower blades should be disengaged and the unit should immediately be returned to the battery charging area. Then connect the mower to the battery charger.



WARNING: Do not attempt to cross roads or railways with low battery levels.

# 4. Battery safety instructions

WARNING: Unplug charger from power outlet before connecting or disconnecting from the mower charger port. Always wear safety glasses and protective clothing/gear. Use insulated tools. Prevent the battery terminals from touching any metal mower parts when removing or installing battery. Do not allow metal tools to short circuit between the battery terminals and metal mower parts. Always keep protective battery covers in place.

**WARNING:** Incorrect battery cable routing could cause damage to the mower and battery cables. This can cause sparks which can cause a battery short circuit which could result in serious personal injury.

WARNING: Always disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment when transporting the ride-on mower unit.

# 5. Battery connectors – Battery maintenance

#### **Battery connectors**

The battery connectors are located under the battery cover. Always disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment before performing maintenance on the unit.



#### **Battery maintenance**

Your MEAN GREEN mower is powered by 1 or 2 Lithium-ion batteries (LEMs) which, when maintained properly, will provide years of useful life. For proper care, adhere to the instructions on pages 43-53.

WARNING: Charge only with a MEAN GREEN mower approved charger. Do not use battery chargers other than those recommended by MGE MEAN GREEN. Incorrect battery charging will void warranty and can lead to equipment damage, fire, serious injury or death.

- Always charge batteries after each use, regardless of how little used. Once charging is complete, charger can be disconnected. Charger may not turn back on once charging is complete. NOTE: Unplug charger from outlet and then from mower charging port!
- Check that battery cables are securely tightened to batteries each time you service the battery.
- Keep grass, dirt and debris from collecting near battery terminals.
- Batteries are not to remain in a discharged state or damage to the batteries will occur.
   Immediately charge at least 15 minutes after a complete discharge of battery pack.
- Charge batteries indoor in a well-ventilated and dry location away from sparks or flames. Never expose charger to rain, vapor or liquid (dry location use only).
- Charge only genuine Lithium-ion batteries (LEMs) provided with the MEAN GREEN mower.
- **Do not touch un-insulated portion of charger** (terminal pins) of output connector (if applicable on model).
- Do not use with defective cords and wires. Replace defective cords and wires immediately.

# 6. Battery charging procedure

LEM48140 lithium-ion pack of batteries – approximate weight of 52kg

WARNING: Batteries <u>should not</u> be removed from unit unless repair is needed. Use EXTREME CAUTION when lifting batteries out of mower unit. Serious injury to operator and/or damage on battery could occur if battery is mishandled or dropped!!

WARNING: <u>Do not use an extension cord to charge mower!</u> If an extension cord must be used, it must have a minimum of 2.6mm diameter and of 5.3sq.mm section (10 AWG-American Wire Gauge Standards for copper wires) wires and be of the shortest length possible (between 3 and 8 meters long). Never leave any cords coiled as excessive heat can build up and melt insulation of extension cord wires!

Model of charger include: LEMC3548 (Standard Charger)



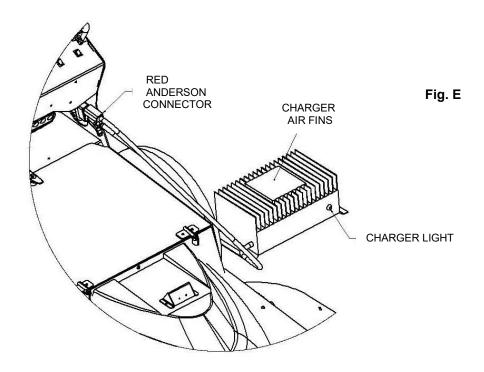
#### See separate guidelines for each below!

The charger will charge from a Standard plug 220V outlet at 25 amps-48volts. This will be drawing around 13 amps from the 220V wall outlet. NOTE: It is recommended to have a dedicated circuit for charging!!

DO NOT USE extension cords with chargers (see above note)!!

To use chargers at 35 amps, you will need to connect to a 220-240 Volt outlet. This will allow the LEMC3548 to charge your mower at 35 amp-48V (standard). The charger will draw around 7 amps for the LEMC3548 from the 220-240V wall outlet. **DO NOT USE an extension cord with the chargers (see above note)!!!** 

On picture Fig. E below notice the charger has air fins on the top of unit for cooling and 2 cords – 1 from the left side and 1 from the right side. The cord with the **RED Anderson connector plugs** into the charging port of the mower and the second cord plugs into the electrical wall outlet. The charger also has a light on the front of the unit – RED indicates charging and GREEN indicates battery is charged.



#### 7. Proper connection and disconnection of charger unit onto the mower:

- Connect the charger to the mower charging port with the Red Anderson connector (see Fig. D). Plug charger into 220-240V wall outlet. You will see a red light on the charger unit. This will indicate the charger is functioning properly.
- When unit is fully charged, the light will turn GREEN. To disconnect the charger, unplug charger from outlet FIRST then proceed to unplug the charger from mower charging port.

<u>IMPORTANT</u>: IF YOU DO NOT UNPLUG CHARGER FROM WALL OUTLET FIRST, the GREEN light will stay on and the charger may not reset for the next charge. If this occurs, unplug the charger from the wall outlet and wait until the GREEN light turns off (NOTE: this may take up to 40 seconds). <u>NOTE – If you have purchased a charger with a manufacture date of January 2019 or later, the charger will reset without having to unplug the unit from the wall outlet.</u>

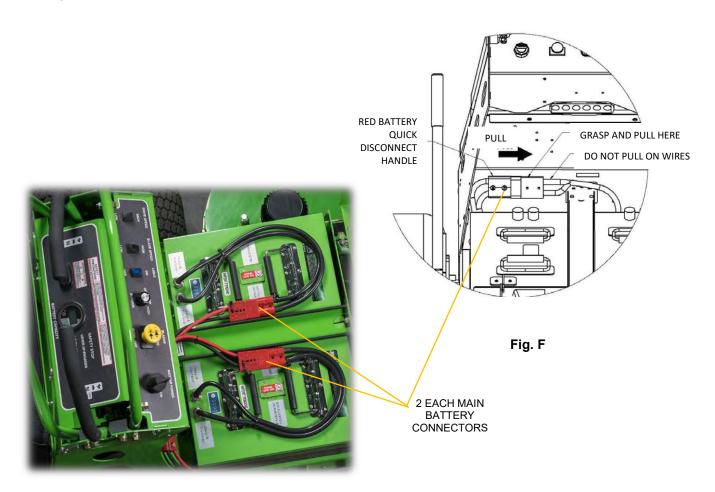
• After charging is complete, the red charger connector can be removed form mower. If connector is not disconnected from the mower then the safety arm on the charger connector will not allow the mower to drive and a fault code will appear on display. Simply remove the connector from the mower and the fault will be corrected and drives will function as normal. Refer to drawing Fig. D.

Always refer to the charger manual for more information about the proper operation of the charger or call your MGE MEAN GREEN authorized dealer.

# 8. Connecting lithium energy batteries to the STALKER SO 122

# It is better to operate the STALKER SO 122 ride-on-mower with 2 batteries LEM48140.

- The STALKER SO 122 mower can be operated with 1 or 2 each LEM48140 batteries, connected in PARALLEL. Parallel connections are accomplished by connecting each LEM to the main battery connectors as seen in picture below.
- NOTE THAT the main battery connector is always connected to the RED connector (see Fig. F) on
  the left wall of the battery compartment to supply power to the mower. When operating, always keep
  ALL LEM48140 batteries connected to the main battery connectors.
- Do not connect all LEM48140 batteries of drastically different voltage levels together. No major damage should occur, but imbalance during charging may occur if similar voltage LEM48140 are not paired and shorter run times will result.



# 9. Troubleshooting - Symptoms & probable causes - Suggested remedies

# **FOR ANY ELECTRICAL PROBLEMS**

RESET mower electronics by switching ignition key to OFF position for approximately 5 seconds then turn it back to ON position.

#### Mower blades stop while mowing

When battery voltage becomes low, drive motors will slow to "creep" mode (3,5km/h). When the batteries discharge to this point, they require recharging. The mower blades should be disengaged and the unit should immediately be returned to the battery charging area. Then connect mower unit to the battery charger.

#### Uneven cutting height

The blade(s) are not sharp. Sharpen the blades.

A cutting blade(s) is/are bent. Install new cutting blade(s).

The deck is not level - Contact your MEAN GREEN dealer.

The underside of the deck is dirty. Clean the underside of the deck.

Tires improperly inflated. Adjust air pressure to proper pressure: 0.5kg to 1.2kg maxi.

A blade spindle is bent. Contact your MEAN GREEN dealer.

#### Loss of deck operation

The deck fails to operate with fully charged batteries.

RESET mower electronics by switching ignition key to OFF position for approximately 5 seconds & then back to ON position. If this does not remedy the problem - Contact your MEAN GREEN dealer.

#### Mower does not start

Check that key is in the ON position.

Check all battery connections in back battery compartment.

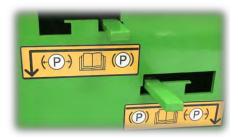
Make sure batteries are charged.

# • Mower drives stop due to low charge & mower will not move or moves in "creep" mode

Turn blades off, turn key to OFF position, wait approximately 5 seconds and then back to ON (this resets computer).

If manual operation is needed to return to charging station or to move mower without battery power, push both Emergency Drive Brake Release Levers to release drive brakes (located beneath the battery compartment, **SEE Page 38 Fig. O1 & O2**) and push or tow mower **slowly**.

NOTE: Never drive mower with levers released. Always push levers back to the engaged position before driving! Failure to reengage drive levers could cause serious damage to your mower and void mower warranty!!!!



#### VI. USING THE MOWER - CONTROL BUTTONS

# 1. Operating the platform - Ergonomics

Operating the mower with the PLATFORM UP (Fig. G1) is recommended when:

Note: in that case the operator walks behind the STALKER mower

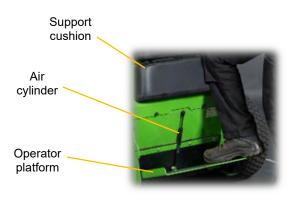
- a. Mowing small areas where the mower is too long
- b. Mowing near drop-offs and steep inclines
- c. Areas with obstacles and low hanging branches
- d. Manoeuvring up slopes
- e. Loading / Unloading machine from trailers, ramps etc.

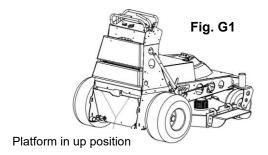
#### Operating the mower with the PLATFORM DOWN (FIG. G2) is recommended when:

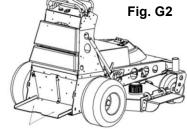
- a. Mowing most areas.
- b. Driving down slopes.
- c. Large open mowing areas.

#### Putting the mower platform down

Utilize top of foot to pull platform downward then place feet evenly onto platform (See Fig. G1 and G2 and photos). Step rearward from platform to exit platform. Platform will automatically retract upward after operator exits platform.











IMPORTANT! For a better comfort the platform is mounted onto silent-block suspension. Keep your feet apart during job and mower displacement!

**IMPORTANT!** For more safety and comfort put on mower pillows (become one with the machine) and grasp the front or rear green bars depending on your travel direction (frontward or rearward).

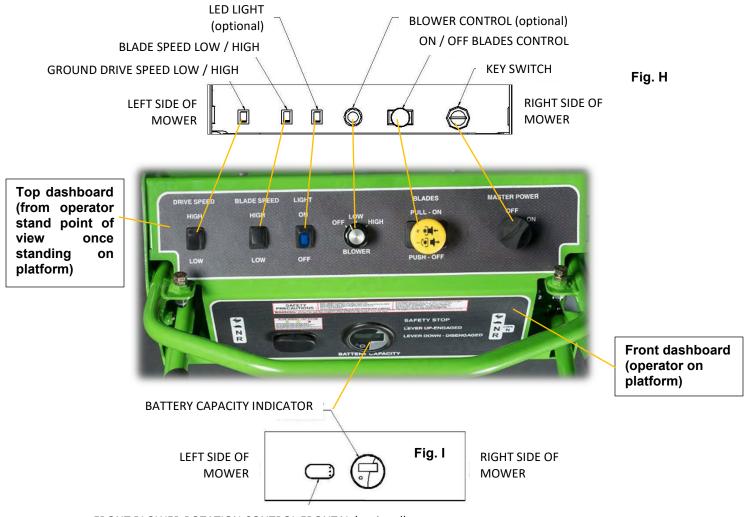




The green bars – fix – allow safe and easy driving by move of black – mobile – control levers.



#### 2. Dashboard - Main controls



FRONT BLOWER ROTATION CONTROL FRONTAL (optional)

 Battery capacity indicator (Fig. I): Indicates battery state of charge and diagnostic information (including FAULT CODES).

Turn the key to the ON position, wait 3 seconds for diagnostics to load. Display will indicate battery status and drive conditions with "READY" or "CUT" sign or FAULT indications.

**NOTE:** If FAULT occurs, first reset computer by turning key to OFF position and then to the ON position. If FAULT continues: Call your authorized MGE MEAN dealer Immediately!

REFER TO page 28 regarding fault codes and main troubleshooting guide.

- **Master power ignition switch (Fig. H)**: A two position switch OFF and ON. With key inserted, rotate key clockwise to the ON position to start mower.
- PTO deck blades ON and OFF switch (Fig. H): This switch engages the deck blade motors. Pull the yellow switch up to engage blades and push switch down to disengage blade motors. NOTE: There may be few tenths of seconds delay before blades will start!



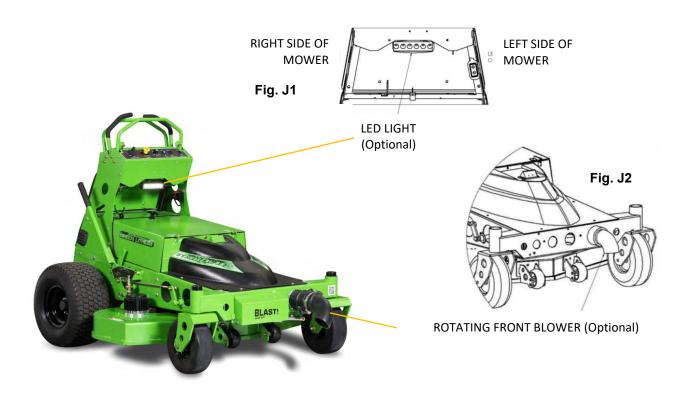
• HI / LOW blade speed switch (Fig. H) HIGH (3450 RPM) LOW (3250 RPM): located on top mower control panel <u>HIGH blade mode</u> is higher blade speed for cutting thicker grass. LOW blade mode provides lower blade speed used for lower battery consumption on thinner dry grass areas.

NOTE: Mowing time may be increased up to 15% when mowing in low blade mode when practical.

**IMPORTANT:** When battery voltage becomes low, the drive motors will reduce speed and enter the "CREEP" Mode (3,2 km/h) enabling driver to continue to drive unit. Operator should disengage deck blades and the unit should immediately be returned to the battery charging area and connected to the battery charger.

- Optional LED lights switch (Fig. H): Turns headlight ON and OFF when additional light is needed.
- Optional front debris blower switch (Fig. H): turn switch clock wise to turn ON blower with 2 blower speeds available – RUN and BOOST. Use BOOST mode intermittently (5 minutes max) to keep motor from overheat conditions.
- Optional blower rotation switch (Fig. I): control of blower nozzle to left or right direction.
- **Drive speed control switch (Fig. H)** Located on top mower control panel. Allows operator to select a comfortable driving speed LOW or HIGH depending on terrain, grass conditions, slope, operator experience etc. Flip the switch to LOW, slow speed for inexperienced operators, for trimming around objects, buildings and other obstacles (trees, plants).

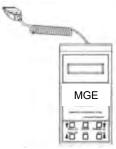
Always EASY DOES IT when unsure or new user to the equipment! Get comfortable with mower before pushing the switch into HIGH speed!



# 3. Fault codes - Troubleshooting of routine problems

- . Digital interface codes beginning with 02A refer to the right-side drive system. Codes beginning with 04A refer to the left-side drive system. A code beginning with 16A refers to the digital display.
- . The first 3 columns of the troubleshooting guide will refer to the codes found on either the digital display, or LED light on the dash of your mower.
- . The interface tool box can be used for detailed diagnostic troubleshooting (functions).





Interface diagnostic tool box (authorized MGE MEAN GREEN dealer)

Fault codes – Troubleshooting of routine problems						
Code 02 = right side	Code 04 = left side	LED flash code	Symptom	Interface tool box	Why?	How to repair?
02A14	04A14	1-4	No drive	Logic failure #3	Internal diagnostic malfunction.	Cycle key. If alarm persists traction controller will need to be replaced.
02A15	04A15	1-5	No drive	Logic failure #2	Internal diagnostic malfunction.	Cycle key. If alarm persists traction controller will need to be replaced.
02A27					Debris not allowing traction controller(s) to cool properly.	Remove debris build up from traction controller and/or base. Replace traction controller if alarm persists.
			Reduced drive speed	High temperature	Traction controller baseplate temperature has exceeded maximum allowable.	Remove debris build up from traction controller and/or base. Replace traction controller if alarm persists.
	04407	0.7			Extreme mowing conditions	Refer to owners' manual for proper mower use.
	04A27	2-7			Debris not allowing traction controller(s) to cool properly.	traction controller and/or base. Replace traction controller if alarm persists.  Refer to owners' manual for
			No drive	High temperature	Traction controller baseplate temperature has exceeded maximum allowable.	•
					Extreme mowing conditions	Refer to owners' manual for proper mower use.
02A65	04A65	6-5	No drive	No brake start (brake sensor)	Brake switch is not on during start up. Malfunctioning brake switch, disconnected or shorted connection.	Verify parking brake switch is on. Verify, repair or replace brake switch connection as needed. Replace brake switch if alarm persists.



For any other fault codes beside codes of above board, please contact your authorized MGE MEAN GREEN dealer. He gets diagnostic tools, electrical accreditations and technical capabilities to maintain properly your mowers due to trainings and specific accreditations to make in order to distribute this electric powered equipment.



#### 4. Blade warning LED light system

#### Blade warning LED light system:

The blade warning light system is located in center foot rest of the mower (also see next page Fig. K).

A 3 light system to assist operator with optimal mowing performance in all grass conditions showing speed and performance of each blade. **NOTE:** Allow up to 10 seconds for the blade lights to turn on after blades are engaged. Operator can start mowing grass before lights are on. The LED lights run in order of the blades – for example, the left light is monitoring the left blade, center light is monitoring center blade and right light is monitoring right blade. Once lights are on, operator should see solid GREEN. This will indicate the blades are running at full speed and optimal power.

**GREEN light**: Operator can maintain speed and the cutting height is accurate for optimal performance. As the operator enters thicker grass, a light or lights (depending on which blade is cutting the thickest grass) will be YELLOW. If this occurs, it is best to slow drive speed and allow blades to return to GREEN. If slowing drive speed does not return lights to GREEN, operator may need to slightly raise the deck to return to GREEN and an optimal cutting performance. A 5-6mm (¼ inch) rise in the deck can make a huge difference in cut quality and cutting speed especially in tall, wet grass.

**YELLOW light**: Reduce drive speed. Operator may need to raise the deck 5-6mm (¼ inch) to keep the deck at optimal power and blade performance. If the operator continues to run the mower in YELLOW with longer, taller, wet grass, the lights will turn RED. RED lights indicate the blade tip speed and power is at the lowest point and is on the verge of shutting down. Continuing to run in RED will result in your blade or blades shutting down completely, requiring the operator to turn Deck Blades OFF and then ON to reset the PTO. **TO AVOID THE BLADES SHUTTING OFF- SLOW DOWN AND RAISE DECK SLIGHTLY!** This means the grass is too tall, thick or wet and may need recut in this area for optimal performance.

**RED light**: Slow drive speed. Raise deck. You may need to look at double cutting area if grass is too tall or thick.

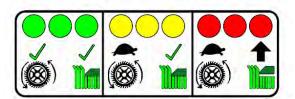
<u>NOTE:</u> Once the blade/blades have shut down, the red light will go to a blinking green light. This will inform the operator that a blade/blades have shut off and will need reset by turning Deck Blades Switch OFF and then ON. Operator will also see flashing GREEN lights when turning the mower deck blades OFF letting operator know that all blades have shut down.

**GREEN** LED light: Maintain ground speed and height of cut.

YELLOW LED light: Reduce ground speed or raise cutting deck slightly.

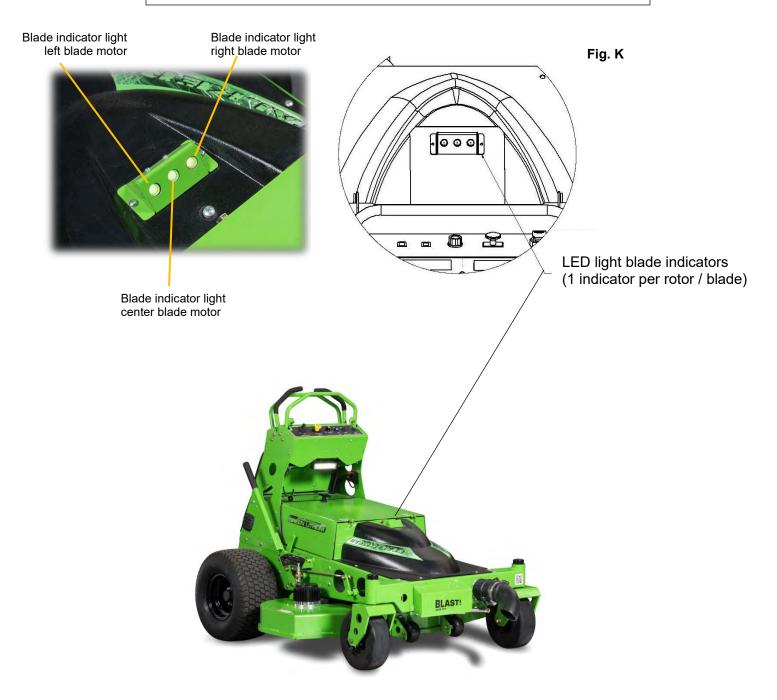
**RED** LED light: Slow ground speed and raise cutting deck slightly.

Ensure inner mowing deck is clear and blades are sharp before each use!



MGUPN073: If the blade indicator lights show up as green, the drive speed and deck height are good. If the blade indicator lights show up as yellow, the drive speed will have to decrease, but deck height is fine. If the blade indicator lights show up as red, the drive speed must be slowed down, and the deck height should be increased.

**IMPORTANT:** Never engage deck motors when the deck is under load. Motors or deck could be damaged.

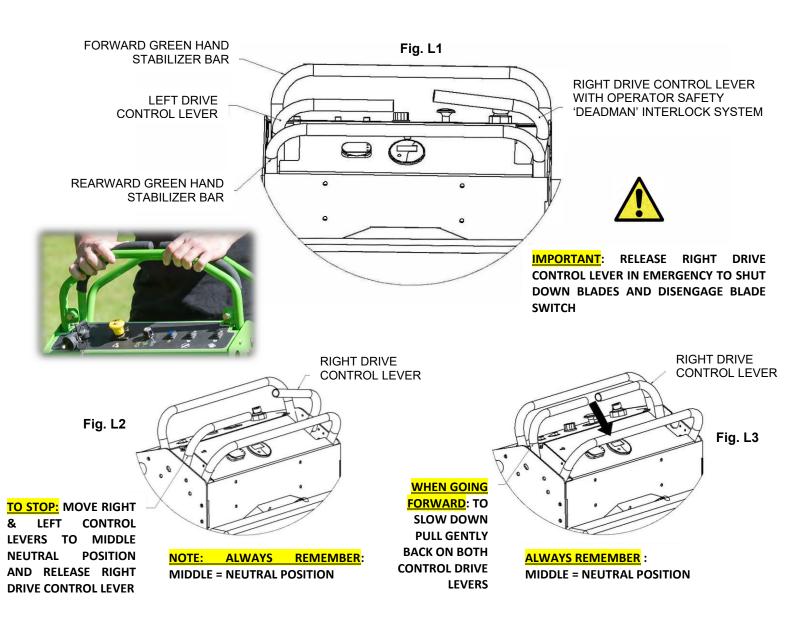


#### 5. Drive control bars of the mower

Drive control bars of the mower (Fig. L1, L2 and L3)

To drive the mower forward and straight, push right & left drive control bars forward an equal distance.

To drive the mower in reverse and straight pull right & left drive control bars rearward an equal distance.



**TO STOP,** move right & left drive control bars to neutral, **middle** position and push bars **OUTWARD** into the neutral slots.

When going forward to slow down, pull back gently on both drive control bars.

When going in reverse to slow down, push forward gently on right & left drive control bars.

**NOTE**: Always remember middle is neutral!

#### VII. USING THE MOWER – OPERATION

# 1. Safety start interlock system

The machine is equipped with a safety start interlock system consisting of the park brake switches, seat switch, and deck blade switch.



#### Check mower safety start interlock system daily, prior to operation.

This system is an important mower safety feature. It should be repaired immediately if it malfunctions. Call authorized MGE MEAN GREEN dealer immediately! The machine incorporates a separate seat switch which will stop the drive system and deck motors when the operator is unseated for any reason while the mower is operating. This is a safety feature designed to prevent runaway or accidental entanglement.

#### To inspect the system:

- **a.** The operator must be on the seat when testing the seat switch.
- b. Turn Master Power Ignition Switch to the ON position with key.
- c. Keep Drive Control Bars in neutral position.
- d. Push Deck Blades to ON position.
- e. Slowly raise off of the seat. The deck blade system should stop.
- f. If the deck blade system fails to stop when the operator is off of the seat and if the cause cannot be determined, contact immediately your authorized MGE MEAN GREEN mowers dealer.

# 2. Starting the mower

- **a.** With key inserted, turn master power ignition switch on by rotating key clockwise to the ON position AND with arms OUT WAIT for display to read READY (if High drive speed mode) OR CUT (if Low drive speed mode).
- **b.** Check for the appropriate speed mode by switching High/Low drive speed switch to LOW position. **NOTE:** It is always recommended to start out in low mode/ slow speed.
- c. Pull right and left drive control bars inward until stops are contacted.
- d. Pull up on PTO deck Blades ON / OFF switch to start cutting blades for mowing.

**NOTE:** ONLY engage blades when drive control bars are in the NEUTRAL position! **NEVER** engage blades when moving!!

**e.** Push drive control bars forward for forward motion and pull rearward for reverse motion. Electric brake will engage 1.5 seconds after both drive control bars are returned to neutral.

# 3. Stopping the mower

- **a.** Return drive control bars to the neutral /stop position.
- **b**. Push down on deck blades ON / OFF switch to turn OFF the blades.
- c. Push drive control bars outward into the neutral slots. After 1.5 seconds brakes will engage.
- **d.** Rotate key in master power ignition switch counter clockwise to the OFF position.

NOTE: If operator leaves seat with key in the ON position, the unit will need RESET by turning key switch to OFF/ON.

# 4. Driving the mower

DANGER: Never make sudden stops or reverse direction, especially when maneuvering on a slope. The steering is designed for SENSITIVE response. Rapid movement of the steering control levers in either direction could result in a reaction of the machine that can cause serious injury.

**WARNING:** Make sure seat pan is securely locked in place down prior to each use to prevent seat from moving/tilting in the event of mower tipping or rollover.

After turning master key to ON position:

- To go forward, push both drive control bars forward an equal distance.
- To go in reverse, pull both drive control bars rearward an equal distance
- To turn left, move the right drive control bar farther forward from neutral than the left drive control bar.
- To turn right, move the left drive control bar farther forward from neutral than the right drive control bar.
- Zero radius turn, move one drive control bar forward and the other drive control bar back of neutral.
   This will allow the drive wheels to counter-rotate.
- To stop or decrease speed: To stop, move both drive control bars to neutral, middle position and push levers OUTWARD into the neutral slots. When going forward and want to decrease speed, pull back gently on both drive control bars. When going in reverse and want to decrease speed, push forward gently on drive control bars.
- For an emergency stop: When traveling forward or rearward, place the drive control bars in the neutral
  middle position and push levers OUTWARD into neutral slots this will engage mower safety brakes.
  Any sudden movement could cause the front of the mower to come off of the ground resulting in
  possible loss of control causing serious injury or death. Turn the master ignition key to the OFF position.
  This will shut down the traction drive system and the deck blade system.

WARNING: Always be aware of what is behind the machine before backing up. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing up. IMPORTANT: Rapid movement of drive control bars is not recommended as damage to the electric system components may occur.

To increase speed, increase the drive control bars distance from neutral. The farther forward the drive
control bars are from neutral, the faster the machine will travel forward. The farther back the drive
control bars are from neutral, the faster the machine will go in reverse. Also changing the drive speed
control switch from Low to High will increase or decrease the speeds of mower in forward, reverse and
turning.

#### **SMOOTH TRAVEL**

The lever controls of the Zero Turn are responsive!

The **BEST** method of handling the ground speed control levers is in three steps - as shown in **Fig. M1**.

FIRST place your hands onto the levers as shown.

SECOND, to go forward gradually push the levers forward with your palms.

THIRD, to speed up move the levers farther forward. To slow down smoothly, slowly move the levers toward neutral.

#### Forward travel

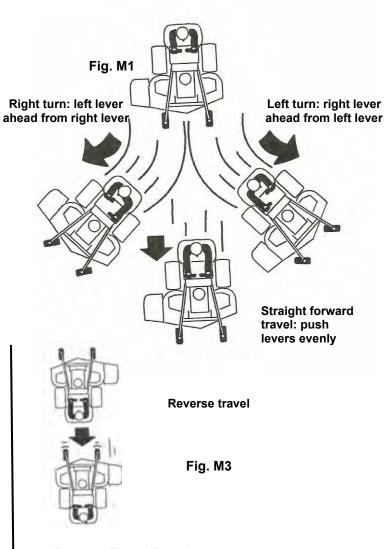


Fig. M2

#### **BASIC DRIVING**

#### Forward travel practice

To drive <u>straight forward</u>, gradually move both drive control bars evenly FORWARD from neutral. **Fig. M2** 



#### **Reverse Travel Practice**

To drive <u>straight reverse</u>, LOOK DOWN AND BEHIND, then gradually pull both drive control bars evenly BACK from neutral. **Fig. M3** 

#### Advanced Driving – Executing an end-of-row turn

#### Executing an end-of row zero turn

The Zero Turn mower's unique ability to turn in place allows you to turn around at the end of a cutting row rather than having to stop and Y-turn before starting a new row.

To execute a left end-of row zero turn:

- A. Slow down at the end of the row.
- B. Move the RIGHT handle bar lever forward slightly while moving the LEFT handle bar lever back to center then slightly back from center.
- C. Begin mowing forward again.

THIS TECHNIQUE UTNRS THE RIDER LEFT AND SLIGHTLY OVERLAPS THE ROW JUST CUT – ELIMINATING THE NEED TO BACK UP AND RE-CUT MISSED GRASS.

Remember: The more you practice, the better is your control of the zeroturn mower!



# 5. Operating suggestions

DANGER: Prior to operating the mower the operator should be thoroughly familiar with the proper use and operation of the equipment, should read the manual completely and thoroughly, and should have attempted slow moving maneuvers to become familiar with the operation of the equipment before attempting normal speed operation. An inexperienced operator should not mow on slopes or on uneven terrain and should always mow in slow drive speed.

**WARNING:** If you lose steering control while operating the machine on a slope, <u>TURN BLADES OFF</u>, return steering control bars to NEUTRAL position for brakes to engage, and TURN key to OFF position. Call your authorized MGE MEAN GREEN dealer to resolve problem before continuing to operate.

WARNING: The unit's steering control bars are very responsive: Easy does it! For smooth operation, move controls slowly, avoid sudden movement. Skill and ease of operation come with practice and experience. The machine can spin very rapidly. Use caution when making turns and slow down before making sharp turns. Inexperienced operators may have a tendency to over-steer and lose control. Slow-moving, slow speed practice maneuvers are recommended to become familiar with these characteristics before attempting high speed operation.

WARNING: Sharp depressions or raised obstacles (such as gutters or curbs) should not be directly approached at high speed in an attempt to "jump" them as the operator could be thrown from the equipment. Approach at a slow speed and angle one drive wheel at the obstruction. Continue at an angle until the wheel clears and then pivot the opposite wheel around. When turning on soft wet turf, keep both wheels rolling either forward or backward. Pivoting on one stopped wheel can damage turf. This is especially important when mowing. Keep blades sharp. Many professional mowing companies have additional sets of blades and change blades twice a day: once in the morning and again at noon. Many problems with incorrect cutting patterns are due to dull blades or blades which have been sharpened incorrectly. Information on sharpening blades is listed in this manual's maintenance section. In addition, most communities have individuals or companies which specialize in sharpening mower blades. Blade sharpness should be checked daily.

DANGER: DANGER: Never work with blades while key is in the ignition switch. Always place deck blade switch in the disengaged position, place steering control bars in the neutral position and turn key to the OFF position, remove key from switch and disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment! Block up mower and use recommended lift jacks when you must work under it.

#### Wear gloves when handling blades.

Always check for blade damage if mower strikes a rock, a branch or another foreign object during mowing!

**Direct grass discharge to right (with side discharge models),** away from un-mown area. Select a mowing pattern that directs grass discharge towards the outside, not towards center, of mowing area. Generally, this means using a pattern utilizing **left turns** because side discharge is to **right.** In any case, avoid throwing grass discharge onto un-mowed area because grass is then mowed "twice". Mowing twice puts an unnecessary load on the unit and reduces mowing efficiency.

When mowing a lawn for the first time cut grass slightly longer than normal to avoid scalping uneven terrain. When possible, it is best to use the cutting height that was used in the past. When cutting grass taller than 18cm, you may want to mow the lawn twice to achieve a better quality of cut.

**During normal mowing cut only about 1/3 of the grass blade.** Cutting more than that is not recommended unless grass is sparse or it is the end of the mowing season.

Alternate mowing direction to keep the grass growing straight and better dispersion of the clippings.

Remember, grass grows at different rates at different time of the year. Mow more often in the early spring to maintain the same cutting height. As the growth rate slows in mid-summer, mow less frequently. If you cannot mow at a regular interval, mow at a high cutting height; then mow again two days later at a lower cutting height.

**Raise the cutting height of the mower** if the cutting width of the mower is wider than the previous mower. This ensures that uneven turf is not cut too short.

Raise the cutting height of the mower if the grass if slightly taller than normal or if it contains a high degree of moisture. Then mow it again with the cutting height set lower.

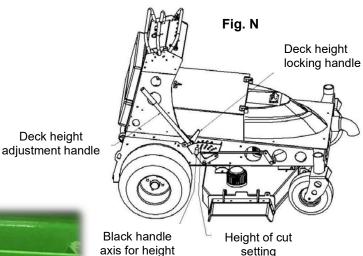
**WARNING:** Never direct discharge of material from mower deck towards bystanders. Do not operate the mower without the discharge chute (with side discharge models).

MGUPN067: Keep the chute down on the deck to prevent flying objects from injuring or hitting people.



# 6. Deck cutting height adjustment

Deck height is adjustable from 30mm to 130mm. Simply push deck height button on the right control panel up or down in 5mm increments to adjust level of mowing. Deck height display (on right side of control panel) shows number in centimeters at which the operator is mowing.



adjustment



Deck can also be raised quickly while mowing is in progress to avoid stumps, rocks or another obstacle that can damage mower deck by using foot pedal on front foot rest. When lowering deck with foot pedal, deck will not go below previously selected height.

#### 7. Anti-scalp wheels

Anti-scalp wheel kits are standard on MEAN GREEN mower units. These anti-scalp wheels are designed to minimize scalping when mowing on rough uneven terrain. After setting the cutting height, adjust the anti-scalp wheels so they extend below the deck but **do not contact the ground**. They should always be at least 6mm to 18mm below the deck. With the unit sitting on a flat level surface, the wheel position can be adjusted up or down as needed from 18mm to 40mm below the blade surface. Move the wheels up or down, in 12mm increments, using the different axle mount holes in the wheel mount bracket.



# 8. ST ALKER SO 122 mower emergency drive brake release levers

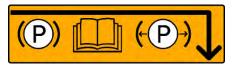
#### If towing or manual pushing is needed:

Located beneath the battery compartment. - **2 levers** on both sides accessible from rear of mower (**Fig. 01**).

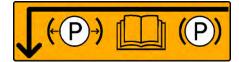
PULL both levers outward to release drive brakes (**Fig. 02**) and PUSH both levers inward to engage drive brakes (**Fig. 01**).

NOTE: Never drive mower with levers released. Always push levers back to the engaged position before driving! Failure to re-engage drive levers could cause serious damage to your mower and void mower warranty!!!!

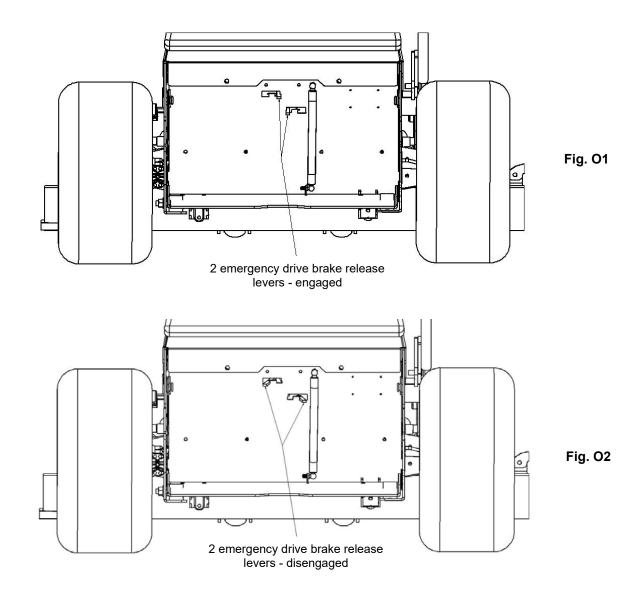




MGUPN081: Right side free wheel decal. Slide and latch bar to right to manually disengage brake. ALWAYS re-engage the brake before any use of the machine.



MGUPN081: Left side free wheel decal. Slide & latch bar to left to manually disengage brake. Always re-engage brake before operating the machine.





#### VIII. OPERATION – RECOMMENDED OPERATING PRACTICES



# Safe Operating Practices - Safety instructions

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.

#### 1. Before and during the mowing job

- **Evaluate the terrain** to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Clean battery compartment, drive motor compartment, mower deck, seat etc. of all dirt and debris.
   Keep unit free of grass clippings, leaves and other debris. DO NOT spray under seat or electric components with water to clean unit. Do not use, solvents, hard cleaners or abrasives. Use only compressed air. Wear adequate eye and hearing protection when cleaning the unit.
- Never leave a running machine unattended.
- Always stop on level ground, disengage deck blade switch, place drive control bars in neutral
  position, turn key to OFF position, remove key and disconnect battery cables by pulling rearward on
  RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment for any reason including
  emptying the catcher or unclogging the chute.
- Always remain seated while operating machine (riding mower models).
- Always keep safety shields and covers in place.
- Always maintain a safe distance from people and pets when mowing. Always stop machine if someone enters the area. Avoid injury. Keep area clear of bystanders when engaging deck blade switch. Always operate machine in daylight or with adequate working lights.
- Follow daily and weekly checklists, making sure electrical connections are secured and bolts are tightened.
- Always observe traffic laws while driving machine from one location to another. Watch for traffic when
  operating near or crossing roadways.
- Always be alert for hazards such as rocks, metal objects and other debris which may be thrown or
  entangled by mower blades. Watch out for holes or deep depressions. Inspect area to be mowed for
  hazards such as rocks, metal objects and other debris which may be thrown or entangled by mower
  blades. Remove these objects before mowing.
- Never operate a poorly maintained machine. Always inspect machine for damage after striking a foreign object. If damage is found, repair machine immediately.
- Always wear adequate ear protection, such as earplugs, when operating this equipment as
  prolonged exposure to uncomfortable or loud noises can cause impairment or loss of hearing. Do not
  wear radios or music headphones while operating the machinery.

Safe operation requires your full attention.

Do not operate the equipment while wearing sandals, tennis shoes, sneakers, shorts or any type of loose-fitting clothing. Long hair, loose clothing or jewelry may get tangled in moving parts. Always wear long pants, safety glasses, ear protection and safety shoes when operating this machine. Always wear safety goggles or safety glasses with side shields when operating the mower.

Always be aware of what is behind the machine before backing up. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing up. When moving in reverse, SLOWLY pull right and left Drive Control Bars rearward and avoid sudden movement. Rapid movement of the Drive Control Bars in either direction could result in a reaction of the machine that can cause serious injury.

- Never attempt high speed maneuvering, especially in crowded, congested areas or on slopes.
- Never allow persons to operate this machine without proper instruction or allow children to operate machine. Allow only responsible adults who have read and understand these INSTRUCTIONS NOTICE to operate this machine. Never put hands or feet under any part of the machine while it is running. Never carry passengers.
- **Never direct discharged material toward anyone**. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Always disengage the blades and wait for them to stop before crossing gravel drives, walks or roads. Always keep clear of the mower blades and attachments during their operation. Turn off blades when not mowing.
- Slow down before turning.
- Turn the key to the OFF position, remove key and disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment before removing the grass catcher or unclogging the discharge chute. Never clear the discharge chute with the machine running.
- Turn the key to the OFF position, remove key, and make sure the blades have stopped before cleaning.
   Use a stick to clear a plugged discharge area.

  Never use your hand!
- Do not operate the machine while under the influence of alcohol or drugs.
- Exercise caution when loading or unloading the machine onto a trailer or truck.
- If any attachment or additional weight is mounted on the rear or side of the unit (depending on model), any rapid movement in either direction could result in a reaction of the machine that can cause serious injury.
- Clean flammable material from machine. Prevent fires by keeping battery compartment, motor compartment, deck and operator's station clean of accumulated trash, grass clippings, and other debris.



#### 2. Using a ramp

Use extreme caution when loading and unloading a unit onto a truck or trailer with a ramp. Use only a single, full width ramp; do not use individual ramps for each side of the unit. Having a full width ramp provides a surface for the mower frame to contact if the unit starts to tip backwards. It also reduces the risk of a wheel going off and the machine tipping over. Do not exceed a 15-degree angle between the ramp and the ground or between the ramp and the trailer or truck. When on a ramp avoid sudden acceleration.

#### 3. Slope operation



Slopes are a major factor in loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it; do not mow it. REMINDER: Only operate on slopes of 15 degrees or less.

- Use extreme caution when operating on slopes.
- Be extremely careful changing directions on a slope. Slow down.
- Do not operate where the machine could slip or tip.
- Turn slowly.
- Turn on the most level part of the slope.
- To maximize traction, it is better to turn the front of the machine uphill, rather than downhill. If drive tires lose traction, steering control is lost which could cause serious injury or death.
- If it becomes necessary to turn downhill, turn slowly and gradually.

Do not remove or modify the stabilizer wheels. Watch for holes, ruts, bumps, rocks or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles. Remove obstacles such as rocks, tree limbs, etc. Keep all movement on slopes slow and gradual.

Do not make sudden changes in speed or direction. Avoid starting and stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope. Mow a safe distance (minimum 3 meters) away from drop-offs, retaining walls, drainage ditches, embankments, water, and other types of hazards to avoid a wheel dropping over the edge or to avoid the ground from breaking away. This will reduce the risk of the machine suddenly rolling over causing serious injury or death.

Use a walk behind, push mower or hand-held trimmer on slopes and near drop-offs, retaining walls, drainage ditches, embankments and water to avoid machine rollover and serious injury or death.

Do not mow on wet grass. Reduced traction could cause sliding and loss of steering control.

Do not tow on slopes. The weight of the towed equipment may cause loss of traction and control.

Do not try to stabilize the machine by putting your foot on the ground. If the mower's tires lose traction when operating on slopes, disengage the deck blade switch, place the drive control bars in the neutral position, ensure engagement of emergency brake, turn the key to the OFF position and get help.

Never make sudden starts, stops, turns, or reverse direction, especially when maneuvering on slopes. The steering is designed for sensitive response. Rapid movement of the steering control levers in either direction could result in a reaction of the machine that can cause serious injury.

Never stop suddenly while backing down slopes. This action may result in a reaction of the machine that can cause serious physical injury.

The MEAN GREEN mower is capable of operating horizontally (traverse) on moderate slopes. When operating on slopes up to 15 degrees, be aware of any conditions that may cause the mower drive tires to lose traction resulting in a possible loss of control of the machine.

An operator should not operate on a slope until he is thoroughly familiar with the equipment.

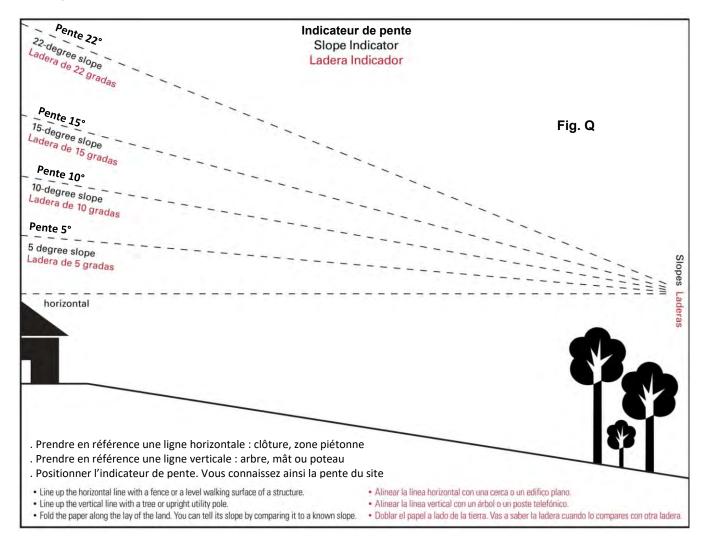




#### Do not operate on slopes greater than 15 degrees.

Refer to slope guide, Fig. Q when determining the degree of slope to be mowed. It is strongly recommended that the operator drive the machine off of the slope, using extreme caution, if any sign of loss of traction is detected. Wait until the condition that caused the problem is resolved before attempting to operate on the slope again. Terrain conditions can affect traction resulting in possible loss of control of the machine. Some of the conditions to be aware of are:

- 1. Wet terrain
- 2. Depressions in the ground; i.e. holes, ruts, washouts
- 3. Mounds of dirt
- 4. Soil type; i.e. sand, loose dirt, gravel, clay
- 5. Grass type, density, and height
- 6. Extremely dry conditions of grass
- 7. Tire pressure



The attachments mounted to the mower will also affect the way it handles on a slope. Be aware that each attachment's characteristics vary. Another consideration is to always mow a safe distance (minimum of 3 meters) away from drop-offs, retaining walls, drainage ditches, embankments, water, and other types of hazards to avoid a wheel dropping over the edge or to avoid the ground from breaking away and always be aware of what is located at the bottom of the slope. This will reduce the risk of the machine suddenly



rolling over causing serious injury or death. Extreme caution should be used when there is a hazard located at the bottom of the slope. Some examples are:

- 1. Water; i.e. lake, river
- 2. Cliffs, retaining walls
- 3. Roads, highways
- 4. Buildings
- 5. Rocks

These are just a few examples of situations when caution must be used when operating on a slope. There are many other possibilities too numerous to mention. Just remember to always exercise extreme caution when operating on any slope.

# 4. Precautionary measures to protect children



Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- Never leave machine unattended with key in switch, especially with children present. Children or bystanders may be injured if they move or attempt to operate the machine while it is unattended.
   Always disengage deck blade switch & turn key to OFF position and remove key.
- **Keep children out of the mowing area** and under the watchful care of a responsible adult other than the operator.
- Be alert and turn the machine off if children enter the area.
- Before and while backing, look behind and down for small children.
- **Never carry children**, even with the blades off. They may fall off and be seriously injured or interfere with safe machine operation.
- **Children who have been given rides** in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- **Never allow children to operate the machine**. Use care when approaching blind corners, shrubs, trees, the end of a fence or other objects that may obscure vision.
- Never allow children or others in or on towed equipment.

<u>IMPORTANT:</u> ALWAYS PUSH DOWN and DISENGAGE blades if children, pets, bystanders get in close range of mower AND any EMERGENCY occurs!!

#### IX. MAINTENANCE - ADJUSTMENTS



# 1. Safe servicing practices

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.



<u>NOTE:</u> Always remove key and disconnect battery cables by pulling rearward on **RED BATTERY QUICK**<u>DISCONNECT HANDLE</u> in battery box compartment when any maintenance or repairs are performed on ride-on mower unit!

# 2. Safety preconditions to respect

Park the mower **on level ground**. Make sure that steering control levers are in the **neutral** position, deck blade switch in **OFF** position, raise deck, rotate key to **OFF** position, remove key from switch and disconnect battery cables by pulling rearward on **RED BATTERY QUICK DISCONNECT HANDLE** in battery box compartment.

**IMPORTANT!** Wait for all movement to stop before adjusting, cleaning or repairing.



Repairs or maintenance requiring power should be performed by trained maintenance and <u>electrical accredited</u> personnel only. Read and observe safety warnings in front of instructions notice. Any maintenance operation that requires the removal of safety covers must be performed by one or several trained and electrical accredited service technician(s). Required levels of electrical accreditation ELV (Extra-Low Voltage) and LV (Low Voltage) for technicians: BCL personnel in charge of electrical lock-out, B2VL in charge of work, BRL in charge of Low Voltage operation, B2XL in charge of specific work, BOL basic technician.

Before working on or under the deck, make certain master power ignition switch is OFF and key is removed and deck blade switch cannot be accidentally started and disconnect battery cables by pulling rearward on **RED BATTERY QUICK DISCONNECT HANDLE** in battery box compartment.



IMPORTANT! Repairs or maintenance requiring removing of safety protection and guarding power should be performed by one or several trained and electrical accredited service technician(s).

Use a stick or similar instrument to clean under the mower making sure that no part of the body, especially arms and hands are under mower. Keep your machine clean and remove any deposits of trash and clippings, which can cause fires and overheating. Allow machine to cool before storing.



Clean flammable material from machine. Prevent fires by keeping battery compartment, deck and operator's station clean of accumulated trash, grass clippings, and other debris.

Clean battery compartment, drive motor compartment, mower deck, seat etc. of all dirt and debris. **DO NOT** spray battery/electronics compartment with water. Clean area with compressed air or blower only. Do not use, solvents, hard cleaners or abrasives. Wash exterior mower with mild soap and water.

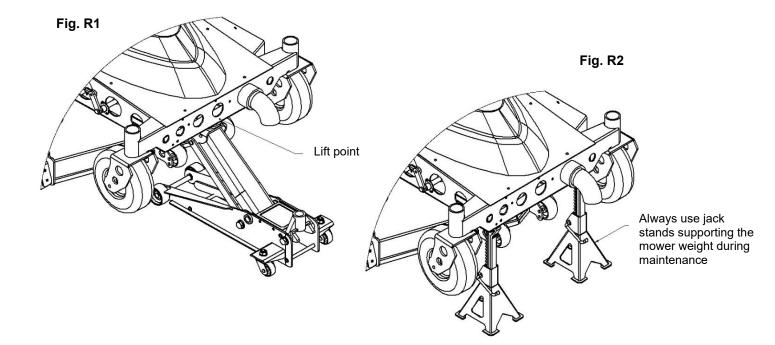
**Always wear adequate PPE** (Personal Protective Equipment), adequate eye protection when servicing the batteries, or when grinding mower blades and removing accumulated debris.

Never attempt to make any adjustments or repairs to the mower's drive system, mower deck or any attachment while the traction drive system is running.

Repairs or maintenance requiring power should be performed by trained and electrical accredited maintenance personnel only.



Never work under the machine or attachment unless it is safely supported with jack stands. Make certain machine is secure when it is raised and placed on the jack stands. The jack stands should not allow the machine to move when the traction drive system is running and the drive wheels are rotating. Use only certified jack stands. Use only appropriate jack stands, with a minimum weight rating of 900 to 1000kg to block the unit up. Use in pairs only. Follow the instructions supplied with the vehicle stands. Do not touch hot parts of machine. See Fig. R1 and Fig. R2 for front lifting point or jack stand locations.



**Keep nuts and bolts tight**, especially the blade attachment bolts.

Keep equipment in good working condition. Never tamper with safety devices. Check their proper operation regularly.

Turn the key to the OFF position before unclogging the discharge chute. Never clear the discharge chute with the machine running.

Turn the key to the OFF position and be sure the blades have stopped before cleaning. Use a stick to clear a plugged discharge area. **Never use your hand!** Stop unit, and allow blades to stop before unclogging chute.

Grass cutting and grass collection system components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.

**Exercise caution when working under the deck** as the mower blades are extremely sharp. **Wear gloves** and use extra caution when servicing them. Use only genuine MEAN GREEN mower parts to ensure that original standards are maintained.

<u>NOTE:</u> Always remove key and disconnect battery cables by pulling rearward on **RED BATTERY QUICK**<u>DISCONNECT HANDLE</u> in battery box compartment when any maintenance or repairs are performed on mower unit!

**Always disconnect batteries when transporting unit**. Keep unit free of grass clippings, leaves and other debris.

**DO NOT** spray battery/electronics compartment with water to clean unit.

**Use only compressed air or blower or air vacuum cleaner**. Wear **adequate PPE** (Personal Protective Equipment), eye and hearing protection when cleaning the unit. Always wear safety glasses and protective gear near batteries. Use insulated tools.



#### 3. Regular maintenance

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow on a routine basis. For more detailed information order the correct parts manual for your unit. Remain alert for unusual noises, they could be signaling a problem. Visually inspect the machine for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

**Daily inspect** mower for grass clippings and wire and string tangles. The underside of the mower deck may collect a buildup of grass clippings and dirt, especially when grass is wet or has high moisture content. This build-up will harden, restricting blade and air movement and will probably show a poorer quality of cutting. Therefore, it should be removed routinely. To do this it will be necessary to raise and block the deck, using jack stands or blocks, in the full up position and scrape the build-up from underneath. Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult authorized MGE MEAN GREEN dealer when assistance is needed.

#### 4. Torque values



WARNING: Particular attention must be given to tightening the drive wheel lug nuts and blade spindle bolts. Failure to correctly torque these items may result in the loss of a wheel or blade, which can cause serious damage or personal injury. Call your authorized MGE MEAN GREEN dealer for assistance.

Torque values are given below:

- Blade spindle bolt bottom (SILVER motor)...... 41 N.m

**Lug nuts only** - It is recommended that these be checked <u>after the first 2 hours of operation</u>, initially, <u>every 100 hours and following removal</u> for repair or replacement.

#### 5. Tires

It is important for level mowing that the rear tires have the same amount of air pressure.

The recommended air pressures of rear turf tires are:

- Average recommended pressure...... 800 grams (11,6 PSI)
- Lowest admissible pressure...... 500 grams (7,25 PSI)
- Highest pressure (not recommended)................. 1,5 kg (21,75 PSI)

Airless rear tires Michelin X TWeels® Turf do not require air.

Front tires are either no flat tires OR front airless Michelin X X TWeels® Turf tires do not require air.



Rear turf tire



Rear airless Michelin X Tweels® Turf



Front no flat wheel

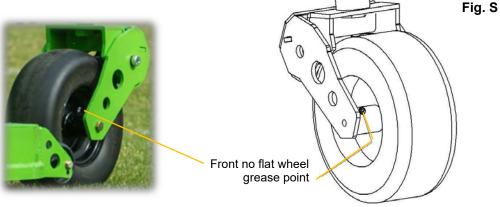


Use SAE multi-purpose grease for front wheel bearings (no flat wheels).

IMPORTANT: Recommended maintenance at the beginning of each mowing season ANI

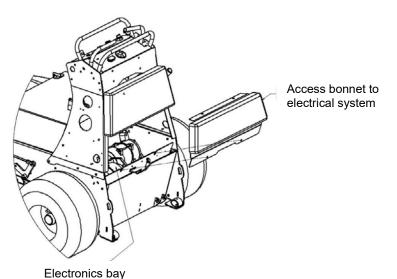
IMPORTANT: Recommended maintenance at the beginning of each mowing season AND every 50 hours of operation. There are only two (2) grease points on STALKER SO 122 mower.





# 6. Electrical system

This mower operates on a **48-volts electrical system**. Refer to the **Electrical system** section (page 19) of this manual for detailed information.



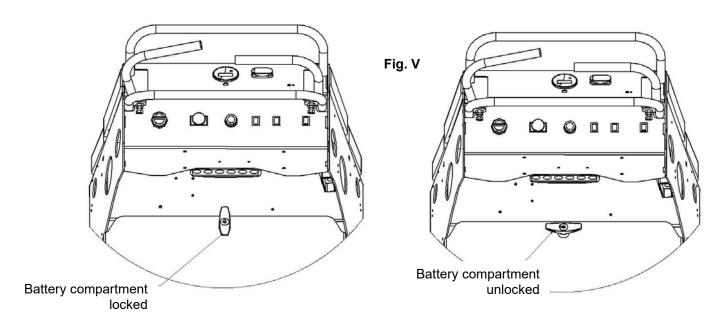
Electrical system is located on rear of mower behind support cushion.



# 7. Battery compartment OPEN / CLOSE handle and battery lock (Fig. V)

To open the bonnet turn handle and LIFT UP on battery compartment cover to access Lithium Energy Modules (LEMs). To close TURN BACK handle on cover bonnet until it closes to secure battery compartment cover when operating mower. **Battery cover handle can be locked with the use of a key lock** near integrated in handle.

.



#### 8. Mower blade maintenance

Check the mower blades daily, they are the key to power efficiency and well-groomed turf. Keep them sharp, a dull blade will tear rather than cut the grass, leaving a brown ragged top on the grass within a few hours. A dull blade also requires more power. Replace any blade which is bent, cracked or broken.

WARNING: Never attempt to straighten a bent blade by heating, or weld a cracked or broken blade as the blade may break and cause serious injury. Replace worn or damaged blades.

DANGER: Never work with blades while key is in the ignition switch. Turn key to OFF position, remove key from switch and disconnect battery cables by pulling rearward on RED BATTERY QUICK DISCONNECT HANDLE in battery box compartment!

WARNING: Block up mower when you must work under it. Wear gloves when handling blades. Always check for blade damage if mower strikes a rock, branch or other foreign objects during mowing!

WARNING: Wear always PPE (Personal Protection Equipment), adequate eyes protection and gloves when grinding mower blades.



#### 9. Mower blade removal

MGUPN190: The torque values for the nut that holds in the blade.



Refer to your approved ZTR Jack instructions to raise the front of MEAN GREEN mower. Use a 3/4" (19,05mm) wrench or socket to remove the 1/2" (12,7mm) hex head bolt holding the blade to the motor shaft from underneath. It may be necessary to use a 1-1/4" (31,75mm) channel lock pliers to keep the blade adapter from turning while removing blade bolt.

**NOTE:** The blade adapter will come off when the blade bolt is removed. Touch-up sharpening can be done with a file. Check the blades for balance following grinding. A commercial balancing tool is available through most hardware supply stores, or balancing can be done by placing the blade on an inverted line punch or 1/2" (12,7mm) bolt. Blade should not lean or tilt. Spin the blade slowly, blade should not wobble. If blade is out of balance, true it up before reinstalling. Lay the blade on a flat surface and check for distortion. Replace any distorted blade.

#### 10. Mower blade installation (refer Fig. X1 and Fig. X2)

Do not re-use spindle bolts which have stripped, worn or undercut threads. Make sure that the blade adapter is seated properly on the blade motor shaft before tightening the blade cap screw. Use a 3/4" (19,05mm) socket with a torque wrench to re-attach the blade to the motor shaft from underneath. It will be necessary to use a 1-1/4" (31,75mm) channel lock pliers to keep the blade adapter from turning. Torque cap screws on motor shafts to 41N.m (30 foot-pounds) for motors when reinstalling blades.

**IMPORTANT:** The blade sail (curved part) must be pointing upward toward the inside of the deck to ensure proper cutting. Rear discharge mulching decks may require a special "LH" blade on the right side of the deck. Be sure to replace blades in proper location.

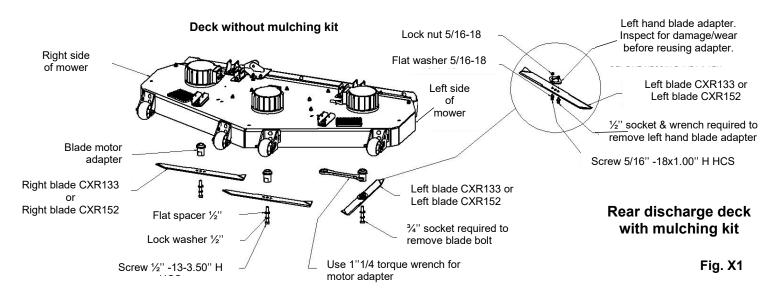
**IMPORTANT:** When mounting blades, rotate them after installation to ensure blade tips do not touch each other or sides of the mower.

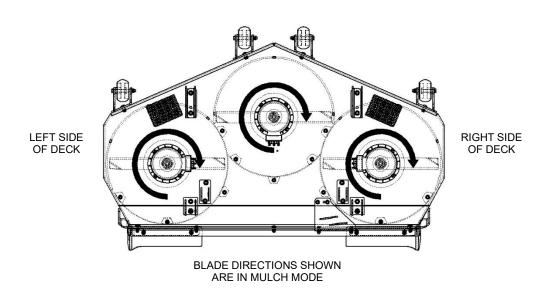
WARNING: Failure to correctly torque the bolt may result in the loss of the blade which can cause serious injury.

WARNING: Mower blades are sharp and can cut. Wear gloves and use extra caution when servicing

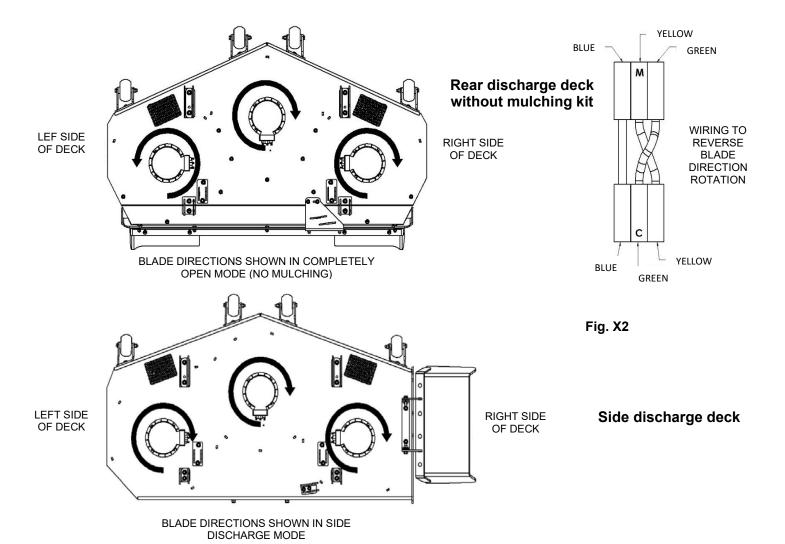


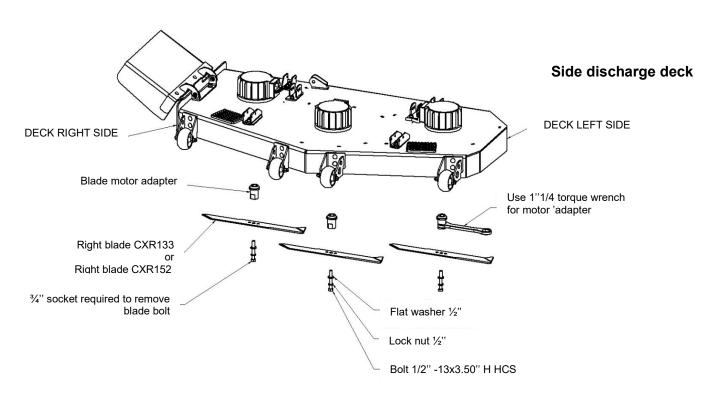
#### Refer to Figures X1 and X2 for typical deck configurations and proper blades.





NOTE: Left side blade may rotate clockwise or counter clockwise when mulching baffles are installed! To change direction of blade Motor, use the MEAN GREEN blade Rotation direction adapter to change wire connection between the blade controller and blade motor wires (Fig. X2).







### X. GENERAL INSTRUCTIONS PANEL



Aluminium panel 'B' 40x60cm to fit inside client workshop on delivery and

1<sup>st</sup> starting

PVC panel 'A'

21x29.7cm inside battery compartment

of mower

Panel 40x60cm supplied by MGE with each mower. To fit on delivery and 1st starting by authorized MGE MEAN GREEN dealer inside client workshop.



# XI. STORAGE - WINTERING

#### 1. Recommended instructions

When storing the unit at the end of the mowing season, the following steps should be taken to ensure readiness for the next mowing season.

a. Remove all grass, dirt, and trash from mower.



IMPORTANT: Wash the outer machine with a mild detergent and water. Do not wash the electronics / battery compartment of the mower!

Avoid excessive use of water near the control switches on panel.

<u>DO NOT</u> get water in electrical compartment or in battery compartment!!!

IMPORTANT: Excessive water use may void warranty if guidelines are not followed!

- b. Thoroughly lubricate wheel bearings, according to lubrication instructions. IF APPLICABLE.
- c. Charge batteries to 50-60%.
- d. Do not deflate tires.
- e. The mower should be <mark>stored in a well ventilated, clean and dry place</mark> as the battery charger cannot be used in a wet environment.
- f. Do not operate mower if battery temperature is below -17° degrees Celsius. Do not charge batteries if below 0° degrees Celsius.

#### 2. New season preparation

Before starting the mower following post season storage, the following servicing is required:

- a. Clean machine, removing trash and dirt accumulation.
- **b.** Review safety precautions listed in this manual.
- **c.** Check and inflate rear tires to recommended pressure of 12 psi. If No Flat tires on front, no air required.
- d. Make sure that batteries are fully charged.
- e. Grease wheel bearings (SAE multi-purpose grease) IF APPLICABLE.



# 3. Lithium Energy Module (LEM) maintenance and care

# IMPORTANT:

In order to prolong the battery module cycle life and make sure the module stays in good condition, please read the following instructions:

- a. Whenever a battery pack is fully discharged and automatically turned off, **DO NOT USE IT AGAIN until** it is recharged. Over discharge of the battery pack means the battery life will be shortened and the battery may become permanently damaged.
- b. Whenever a battery pack is fully discharged and turned off, it is best to recharge the battery as soon as possible, there is no need to fully charge, it will even be beneficial if you only charge the module for 5-10 minutes. It is best to recharge it within 24 hours.
- c. For charging, charge all modules while connected together.
- d. Before connecting modules together in parallel, please make sure the modules have the **SAME SOC** (State Of Charge or voltage). Different SOC means different voltage and may charge & discharge to each other rapidly, which is not ideal for the modules.
- e. If the battery will not be used for a long time (several weeks), please disconnect battery from the machine.
- f. For long term storage, please keep the State of Charge (SOC) at around fifty percent of the battery packs fully charged voltage level if possible. To reach that point, you can fully discharge the battery pack and then recharge the pack in only half the charging time.
- g. For long term storage, please discharge and recharge the battery pack at least once every 3-6 months.
- h. For long term storage, it is ideal to make sure the storage temperature does not go below -10° degrees Celsius or above +55° degrees Celsius.
- i. The best working environment of the battery module is 10 45 degrees Celsius. Battery pack temperature can be used between -20° to +45 degrees Celsius for discharge and 0° to +45° degrees Celsius for charge.
- j. Avoid severe vibration. Do not throw or drop the battery pack.





LITHIUM BATTERIES ARE SUBJECT TO CLASSIFICATION AS DANGEROUS GOODS TYPE CLASS 9 (UNO). ALL EQUIPMENT USING THIS KIND OF BATTERIES MUST COMPLY WITH TRANSPORTATION RULES REGARDING DANGEROUS GOODS WITH SPECIFIC RULES ACCORDING TO TRANSPORT MODE (AIR, SEA, ROAD, RAIL).

RECYCLING OF MEAN GREEN MOWER LITHIUM BATTERIES USES EXISTING RECYCLING BRANCHES IN FRANCE AND EUROPE. PLEASE CONTACT US FOR ANY QUESTION.





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