



VELOCIFERO

USER MANUAL



EST:1993



ELECTRIC VEHICLE -VELOCIFERO MAD

We want to thank you for choosing one of our products.
In this manual you have entered all the information our engineers have deemed useful for the proper use of the MAD. It also contains the rules for periodic maintenance that will help maintain the MAD in perfect working order.



MAD each has a copy of the booklet.
The content of the booklet is not binding.
The manufacturer reserves the right to change data and technical features of this model at any time and without notice, so it is not required to promptly update the booklet itself.

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IMPORTANT

INTRODUCTION

The MAD is a mode of transport that is environmentally friendly, because it does not pollute and is not noisy.

The MAD implies a daily expenditure of a few cents and it is easy to carry thanks to its folding mechanism fast.

It can be stored in the car and can be brought by train, on the bus, etc.

The MAD will offer the best performance on smooth, at surfaces.

You can always help the MAD, during the inclines, pushing with their feet and using it as a traditional electric vehicles.

Be sure to use the MAD as safely and to watch out for pedestrians who meet.

Observe all local and state laws regarding the use of electric vehicles.

Read and understand all WARNINGS and PRECAUTIONS in this manual.

Respecting the same you will have hours of fun and safe driving.

CAUTION

There are two versions of the MAD, the first approved for road use, the second exclusively for use in private areas.



REMEMBER THAT

The MAD in your possession is not a toy, you must use it with competence, attention and respect for others and for yourself.

Always use the recommended clothing, helmet (fastened), glasses, gloves, shoes, knee pads, the elbow pads suitable for this use. Available at all stores.

Do not try to prove to yourself and to others your driving skills.



CAUTION

The MAD measures must be proportionate to the driver, the person must be able to place your feet comfortably on the ground while sitting on the saddle.

The MAD is designed for a driver of a weight not exceeding 110 kg. The MAD, if misused without complying with the manual, it can get you in serious injury, permanent

and / or death.

MANUAL

The manual must be read carefully before by an adult, who must inform and educate the child to the proper use of the MAD. The child must, if able, however, to read the manual to feel responsible.

This manual contains useful information for the use and maintenance of the MAD and directions to keep it at its maximum efficiency, so it is important to read it to learn all the tips that we felt it was essential to suggest.

INFORMATIONS

The data and characteristics indicated in this handbook are not binding MAIWAY INDUSTRY Co. Ltd. reserves the right to make changes to its products at any time.

INFORMATIONS

Symbols.....	6	Scheduled Maintenance	33
Generality	6	Vehicle Disposal.....	34
Safety, tips and recommendations	7	Battery Disposal	34
Eco-driving	12	Appropriately clothing	34
CAP. 1 KNOWLEDGE OF THE VEHICLE		CAP. 4 ADJUSTMENTS	
Main elements	14	Adjusting the front brake	36
Contents of the box	16	Adjusting the rear brake	37
Commands	17	Tightening the chain	38
Technical data	17	Adjusting clearance of the handlebars	39
Wiring diagram	18	Seat height adjustment	40
CAP. 2 ASSEMBLY OF VEHICLE		CAP. 5 WHAT TO DO IN CASE OF EMERGENCY	
Opening of the handlebar	20	Trouble Shooting	40
Positioning knobs on the handlebar	21		
Height adjustment of the handlebars.....	22	ALPHABETICAL INDEX	
Access and activation battery and motor	23	Index.....	42
Mounting saddle	24		
CAP. 3 OPERATION AND CONTROL VEHICLE			
Battery charging	26		
Starting	27		
Throttle and front brake	28		
Rear brake control	29		
Brake system	30		
Maintenance, generality	31		
Maintenance and checks to be carried	31		
Checks after cleaning	32		

**CAUTION**

Any operation by unauthorized personnel, technical modifications and / or alterations that are made to MAD during the warranty period, or the use of aftermarket parts, will void the warranty and exclude the manufacturer from any liability.



Always use a helmet, gloves, knee pads, the elbow pads, proper footwear, and not try to overcome your skills. A careful guy is a smart guy.

SIMBOLS**SAFETY / WARNING**

Not comply with the notes marked with this symbol could result in danger to the person.

**INTEGRITY VEHICLE**

Not comply with the notes marked with this symbol could result in serious damage to the vehicle and the withdrawal of the warranty

**ENVIRONMENTAL PROTECTION**

Behavior not to harm nature.

**PROTECTION DEVICES**

Wear protective equipment specified.

**TO BE INFORMED**

Information necessary to its security is that of the vehicle.

GENERALITY

- This manual is Your guide to the use and simple maintenance of the MAD.
- We recommend that you carefully follow all the advice, because the proper functioning and durability of MAD depend on its correct use and methodical application of the maintenance rules listed.
- Before carrying out any USE or small MAINTENANCE, to do always with the help of an adult, you are advised to read carefully in all its parts this MANUAL.
- In case of loss or deterioration of the manual you need to request a new copy of the retailer.

**CAUTION**

Other operations are not described in this manual call for the availa-

bility of special equipment and technical expertise. Therefore we recommend you contact a specialized workshop.

SAFETY, TIPS AND RECOMMENDATIONS

- Facts teach the proper use of your MAD by an adult:

- A. mode of acceleration.
- B. deceleration.
- C. braking.
- D. proper conduct during the use of the MAD.
- E. read this manual along with an adult.



Never allow strangers to driving the vehicle when it is stopped.
Risk of falling by half.

- Do not sit down and do not let anyone sit on the MAD when stopped and leans on the stand. Do not drive at night.

- If you wear prescription glasses you check by an adult their cleanliness and suitability of their use on the vehicle



This MAD is designed to carry a maximum weight of 110 kg. It is forbidden to carry passengers.

- Always keep in perfect your MAD. It will help you keep it longer, in full working order and ready to meet your entertainment.



Remember to always wear a helmet, gloves, knee pads and elbow pads and suitable clothing driving the MAD. Use proper shoes and fastened with rubber sole. Never ride barefoot.

INFORMATIONS



Always tell an adult to every single flaw you encounter while driving; even a small noise may be important for your safety and for the perfect state of MAD.



Check before each departure the brakes, the pressure and condition of the tires, the operation of the throttle.



Any processing or alteration of MAD, compared to the original purchase makes the vehicle not in compliance and therefore dangerous.

- If you were to stick small pieces of the saddle or metal parts or plastic not swallow and do not bite and still call an adult for repairs.

- When parties make sure there are people nearby, and that children, if present, are kept at a safe distance and under the control of an adult.
- Follow the directions of the adult who is overseeing the use you make of the vehicle.
- The MAD is not provided with a parking brake, so be sure of the arrest in a suitable area (at with no incline).
- To park (without driver on board) shut down the MAD, remove the stand, make sure it is resting on the ground. Check well that, when you go with the MAD, the stand is repositioned.

- When the MAD is stopped on the stand, the vehicle must be turned off.

WHERE TO USE THE VEHICLE

- The MAD is not designed for driving in rain and snow moisture. Remember that the use of the MAD is allowed only in private areas and still no movement permit to appropriate resources.
- This product does not comply with FMVS (Federal Motor Vehicle Standards) so it can be used on city streets and highways. It is not permitted to use roads open to traffic ordinary. Do not make rides or races

INFORMATIONS

- This is a product ELECTRIC! Prevent the electrical and electronic components coming into contact with the water. Do not drive close to rivers and fords do not though of reduced depth.
- Use the MAD in flat routes without bumps, potholes and jumps.

DRIVING CONDUCT

- Do not talk on the phone while driving even if you have the headset.
- Guide only with sufficient light to your safety and that of others. Do not drive at night.



- Guide always firmly grasping the handle with both hands on the side knobs, according to your ability and with prudence, to avoid danger to yourself and to others.
 - Do not distract always looks ahead. While driving your feet must always be comfortably and solidly supported on the platform.
 - Do not brake hard still use both brakes in order to spread the braking action on two wheels. Never block the front wheel.
 - Do not drive if you are not in perfect health conditions, this could cause a reduction in alertness and / or a decline in physical abilities, providing dangerous situations for themselves and for others.
 - Always ride at a proper speed and according to your ability.
- Always ride at a speed as to allow you to stop safely.
 - Start to brake at a sufficient distance from obstacles so you do not have to perform abrupt that may affect control of MAD.
 - Remember to release the throttle before braking.

INFORMATIONS

- Slow before facing and closing the journey of curves and variations of soil type.
- If you use the MAD with other friends also equipped MAD remember:
 - ALL go in the same direction.
 - Do not make races.
 - Never proceed side by side. Never talk to other drivers while driving.
 - Drive carefully.
 - Keep a safe distance > 5 m from the MAD that is before you and from others who were to accidentally find your sides.

ON THE VEHICLE NOT BRING

- Do not wear loose clothing, scarves, necklaces or other objects with chains and / or long laces. Do not wear ip- ops or clogs.
- Do not drive with objects in your pocket or hanging from the neck.
- Do not drive with hand or mouth objects of any kind.
- Do not carry your mobile phone or other electronic means.
- Passengers or small things also.

STOP THE MAD

After using the MAD remember:

- Park it in a secure, flat and with the stand down.
- When you stop or you have to put in stop the MAD, before going down stops the vehicle.

- Do not leave it unattended if nearby there may be small children.
- When you move to hand the MAD, remember to grab the knobs of the handlebar; incline towards you the means and proceed with caution.
- Do not leave the battery near fire or near heat sources. Prevent damage to the battery to avoid any situation to use a charger defective or malfunctioning.
- Do not place the MAD on the ground and make sure the stand rests on safe ground (no mud or sand).

CORRECT USE OF THE VEHICLE

While driving is strictly forbidden:

- Put your feet on the floor while driving, even at low speeds.

INFORMATIONS

- Get off the vehicle during movement.
 - Do jumps and stunts with the vehicle.
 - Consuming foods or beverages while driving.
 - Read or write.
 - Use phone or headphones for listening to music.
 - Driving on land or roads disconnected or stony or with holes.
 - Drive in the presence of dangerous differences in height (gorges, slopes and descents of steep slope).
 - Get onto in land you do not know the features.
 - Driving while intoxicated or under the influence of drugs or medicines that may decrease the rate of reaction, altering the state of consciousness, your judgment or decrease the physical strength.
 - Drive in non perfect physical and / or mental.
 - Healthy or distract to look around losing sight of your way.
 - Drive if you are sleepy.
 - Driving decomposed or in strange positions or lying on MAD while driving.
 - Use your feet to brake.
 - Use the vehicle to make jokes and do not make jokes while driving.
 - Do not make sudden steering.
- Use the MAD only:
- When a responsible adult has suitably informed you on the use of the medium and on the behavior and safety.
 - When a responsible adult has observed and evaluated the driving skills and mastery of the MAD.

- If you have full control of the vehicle even when stationary and can firmly place both feet on the ground while comfortably sitting on the saddle.
- After wearing the appropriate clothing (shoes) and protective equipment (helmet, knee pads, elbow pads and gloves motorcycle).
- If you can easily to operate the brake lever and the throttle and you have well understood which lever operates the front brake and which the rear brake lever.
- If you can easily to use the throttle and you understand its operation. If turns out to you the vehicle accelerates, if you release it decelerates.
- In the absence of people or animals that you can not get under control the position or that may emerge from bushes and / or things that hide them.
- From a person at a time, you can not carry passengers, animals or objects on board.
- Carefully follow the inspection and before leaving see Chapter 3 "Maintenance and checks."

ECO-DRIVING



The noise and the pollution produced by each vehicle depends to a large extent on how it is conducted.

We recommend that you drive on a regular basis, without strong acceleration and deceleration.

While driving, avoid anything that might disturb people and animals.

CHAPTER 1: KNOWLEDGE OF THE VEHICLE

TOPIC INDEX

MAIN ELEMENTS

BOX CONTENTS

COMMANDS

TECHNICAL DATA

WIRING DIAGRAM

MAIN ELEMENTS

- 1 Key switch
- 2 Height adjustment handlebar
- 3 Throttle grip
- 4 Rear brake lever
- 5 Front brake lever
- 6 Handlebar lock lever
- 7 Footboard
- 8 Front shock absorber
- 9 Rear shock absorber
- 10 Seat
- 11 Front brake caliper
- 12 Front brake caliper
- 13 Frame handlebar
- 14 Drive chain
- 15 Seat height adjustment
- 16 Adjusting clearance of the handlebars
- 17 Headlight (version homologated for road traffic)
- 18 Rear light (approved version for road traffic)
- 19 Horn (version homologated for road traffic)
- 20 Speedometer (version homologated for road traffic)



CONTENTS OF THE BOX

Your MAD is contained in the box of size 1350 x 350 x 570 mm.

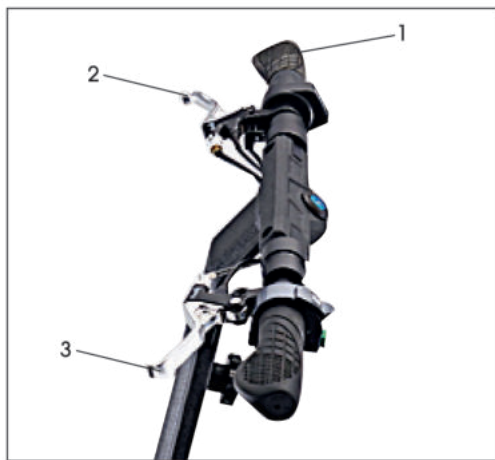
Inside contains the following components:

1. MAD 500 - 500W 36V ○
MAD 800 - 800W 36V ○
MAD 1000 - 1000W 48V ○
MAD 1300 - 1300W 48V ○
MAD 1600 - 1600W 48V
2. Tool Kit.
3. Manuale d'uso.
4. 20-amp fuse.
5. Seat and saddle frame.
6. Headlight (approved version)
7. Back light (approved version)
8. Horn (approved version)
9. Speedometer (approved version)
10. Carrying bag (optional)



COMMANDS

- 1 Throttle grip
- 2 Front brake lever
- 3 Rear brake lever



TECHNICAL DATA

Vehicle weight in running order (with battery)

- MAD 500 - 800 44 kg
- MAD 1000 - 1300 - 1600 48 kg
- max load allowed 110 kg

Dimensions

- total length 1320 mm
- overall width 320 mm
- total height MAD closed 570 mm
- total height MAD min 950 mm
- total height MAD max 1096 mm
- seat height min 750 mm
- seat height max 800 mm

Battery Capacity

- MAD 500 - 800 36V/12Ah lead-acid
- MAD 1000 - 1300 - 1600 48V/12Ah lead-acid

Max distance with one charge

- MAD 500 20-25 Km
- MAD 800 25-30 Km
- MAD 1000 - 1300 - 1600 30-35 Km

Full speed

- MAD 500 20 Km/h
- MAD 800 25 Km/h
- MAD 1000 28 Km/h
- MAD 1300 45 Km/h
- MAD 1600 45 Km/h

Charging time

- MAD 500 - 800 4-6 h
- MAD 1000 6-8 h
- MAD 1300 - 1600 5-8 h

Charge voltage. 110V-240V

Front and rear brake disc

Brushless Motor

- MAD 500 500W brush 36V/12A
- MAD 800 800W brush 36V/12A
- MAD 1000 1000W brushless 48V/12A
- MAD 1300 1300W brushless 48V/12A
- MAD 1600 1600W brushless 48V/12A

Transmission chain

Crown gear

- MAD 500 - 800 70 z
- MAD 1000 - 1300 - 1600 63 z

Maximum torque

- MAD 500 3 Nm
- MAD 800 4 Nm
- MAD 1000 4,5 Nm
- MAD 1300 15 Nm
- MAD 1600 21 Nm

Folding frame high-strength steel

Size Tires 145/70-6

Platform Wooden

WIRING DIAGRAM

Legenda

- 1 Generatore
- 2 Bobina A.T.
- 3 Candela
- 4 Pulsante arresto motore

Ma Marrone
N Nero

CHAPTER 2: ASSEMBLY OF VEHICLE

TOPIC INDEX

OPENING OF THE HANDLEBAR

POSITIONING KNOBS ON THE
HANDLEBAR

HEIGHT ADJUSTMENT OF THE
HANDLEBAR

ACCESS AND ACTIVATION BATTERY
AND ENGINE

MOUNTING SADDLE

OPENING OF THE HANDLEBAR

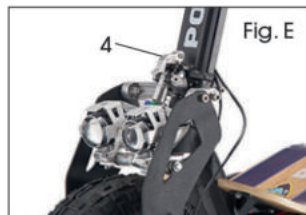
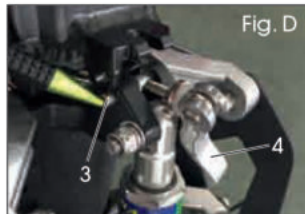
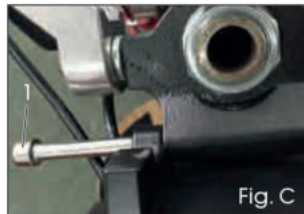
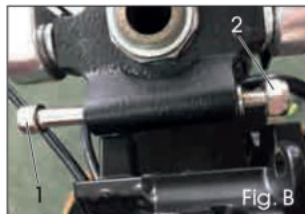
The MAD is shipped folded with the handlebars disassembled (Fig. A). Unscrew the nut **1** and remove the screw **2** (Fig. B).

Place the handlebar and insert the screw **2** with locking nut **1** (Fig. C). Lift the handlebar and press the shutter spring **3**, so as to position the handlebar to the abutment firing shutter (Fig. D).

Rotate and insert the handle eccentric **4** into the groove of the handlebar and close the handle to lock (Fig. E).

Make sure the lock is carried out correctly.

To fold the handlebar, perform this procedure in reverse.





POSITIONING KNOBS ON THE HANDLEBAR

After positioning the handlebar in a vertical position, the knobs of the handlebar have suspended as shown in FIG.

Grasp the control group left (rear brake), turn it horizontally and pull the bushing out. At this center the group on the pin and release it until it stops. Make sure that the handle is correctly oriented.

Repeat for the right control group (accelerator).



HEIGHT ADJUSTMENT OF THE HANDLEBAR

By turning the knob indicated and turning counterclockwise you can adjust the handlebar height by raising or lowering.

When the adjustment has been made tighten the knob by turning clockwise.

Make sure the handlebar is tight.



ACCESS AND ACTIVATION BATTERY AND ENGINE

The battery and the engine are already positioned on MAD. To access the battery and to the motor is necessary to raise the platform, as shown in FIG.

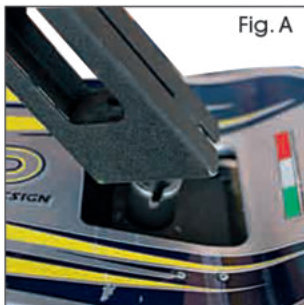
To activate the electric circuit insert the fuse supplied kit.



MOUNTING SADDLE

Enter the full frame of the saddle on the bush hole steering it into the groove (Fig. A).

Once you positioned the saddle screw the two knobs (one for side) provided until no play (Fig. B).



CHAPTER 3: OPERATION AND CONTROL VEHICLE

TOPIC INDEX

BATTERY CHARGING

STARTING

THROTTLE CONTROL AND FRONT
BRAKE

REAR BRAKE CONTROL

BRAKING SYSTEM

MAINTENANCE, GENERALITY

MAINTENANCE AND CHECKS TO BE
CARRIED

CHECKS AFTER CLEANING

SCHEDULED MAINTENANCE

VEHICLE DISPOSAL

SBATTERY DISPOSAL

APPROPRIATE CLOTHING

BATTERY CHARGING

The MAD comes already loaded but it is recommended to charge for at least 6-8 hours before use.

It is also recommended to charge it after each use and before storing.

Do not let the MAD discharges completely to avoid damaging the battery.

For charging proceed as follows:

- Make sure that the MAD is off.
- Open the connection to load **1**, located at the right of the MAD, under the platform.
- Insert the plug with the three contacts in the attack of MAD **2** and to insert the AC plug **3** into a power outlet on the wall.

- Once attached, the charger has a little red indicates that the loading process. When the light turns red and green you can unplug the charger and use the MAD.



STARTING

Insert the key into the ignition switch and turn to the right.

At this point the MAD is ready for use.



THROTTLE CONTROL AND FRONT BRAKE

The group throttle and the rear brake is located on the right handlebar.

Turn the knob **1** to increase the speed and release to decrease.

Pull the lever **2** of the front brake to brake with the front wheel.



CAUTION

Do not twist the throttle in a sudden, the vehicle is equipped with high performance motor. Turn the throttle slowly.



REAR BRAKE CONTROL



The group rear brake is located on the left handlebar.

Pull the brake lever posteriore to curb with the rear wheel.

BRAKING SYSTEM

The MAD is equipped with a brake system front and rear mechanical disc.

Are both activated by levers on the handlebars.

The right lever activates the front brake, the lever of the left rear.

Be sure to leave the throttle before braking.

The braking system consists of a mechanism that removes power to the motor when operating the levers on the handlebars.

To replace the brake pads please consult your dealer.



MAINTENANCE, GENERALITY



For a more efficient MAD we recommend you make before and after use, some routine maintenance.

However, it is important to remember some warnings:

- Maintenance should always be performed by qualified personnel.
- Always use original spare parts.
- Services should be performed with MAD on the stand AND OFF
- In case of breakage and / or loss of the stand do not replace it with makeshift equipment, ask the dealer to the original piece.



Keep children at a safe distance.

- Do not climb on MAD when it is on the stand.

MAINTENANCE AND CHECKS TO BE CARRIED

Before using the MAD and after a fall, the engine off:

- Check the operation of the throttle grip, accelerating and decelerating a few times and make sure your system meets without binding.
- Check the brakes for proper operation: hand moves the MAD and run of sudden braking, check that the brakes will respond.
- Check that all parts of the MAD are in place and secure.

Beware, if you fell, check first of all your health and then the MAD. In case of fall always warned of what an adult.

Remember that even a small pain or a small injury must be checked

and disinfected.

In the event of malfunctions and / or breakages on MAD immediately warned an expert.

- Check the correct tightening of the screws and the chain tension.
- Check the wear of the tires and their pressure.
- Check the wear of the brake and accelerator cables.
- Check the play on the throttle and brake cables, and if necessary, make appropriate adjustments.

CHECKS AFTER CLEANING

After cleaning the MAC is a good idea:

- Lubricate the pivot points on the suspension;
- Perform a perfect cleaning and drying of the chain unit - crown - pinion followed by a good greasing, in order to maintain as long as the good condition of these organs;
- Dry well any metal parts subject to corrosion, oxidation, etc.



SCHEDULED MAINTENANCE

	See pag.	First control	Every 20 hours	Every 40 hours	Every 80 hours
BATTERY	17	C	C	C	C
BRUSHLESS MOTOR	17	C	C	C	C
BATTERY CHARGING	26	C	C	C	C
BRAKES	30-36-37	C	C	C	C
TIRES	17	C	C	C	C
DRIVE CHAIN	38	C	C	C	C
GREASE AND TIGHTENING BOLTS	32	C	C	C	C

NOTE: The symbols (C), (D), (P), respectively refer to CONTROL CHANGE, CLEAN.

VEHICLE DISPOSAL



Remember that the MAD consists of materials partly recyclable and uses liquids, dispersed in the environment, can contaminate soil.

When you have to get rid of parts of MAD, when this can not be repaired, you have to bring in special disposal centers.

When disposing of the vehicle or its parts must:

- Place the motorcycle on a recycling-laundering.

BATTERY DISPOSAL

The MAD is marked with the symbol of recycling on the disposal of electrical and electronic equipment. This means that this product should be brought at a collection point in accordance with Directive 2002/96 / EEC, so that it can be recycled or dismantled in order to reduce the possible impact ambientale.

Per more information about it you may want to contact your local or regional.

Electronic products which are not the subject of a separate collection are potentially harmful to the environment and human health due to the presence of hazardous substances.

APPROPRIATE CLOTHING

- Only after wearing clothes with long sleeves and a certain thickness.
- Only after wearing protection for the knees and elbows.
- Only after having worn a helmet (possibly full, or face protection, but certainly homologated DOT, ANSI Z90.1. Snell), fastened.
- Only after having worn a pair of homologated glasses (VESC8) with shatterproof lenses and ventilated, to protect your eyes from any stones from vehicles ahead or insects.
- Only after wearing a good pair of gloves that may avoid scratches on the hands, numbness, fatigue, and protect them in case of fall or overturning of MAD.
- Only after wearing proper footwear.

CHAPTER 4: ADJUSTMENTS

TOPIC INDEX

ADJUSTING THE FRONT BRAKE

ADJUSTING THE REAR BRAKE

TIGHTENING THE CHAIN

ADJUSTING CLEARANCE OF THE
HANDLEBARS

SEAT HEIGHT ADJUSTMENT

ADJUSTING THE FRONT BRAKE

The front brake is of the disc type with mechanical control for which requires periodic adjustment interventions.

The clearance on the front brake lever should be 5 to 6 mm.

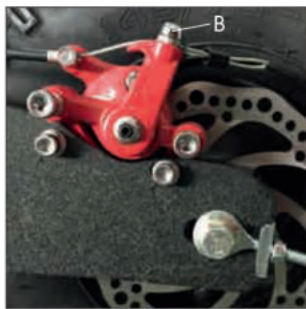
The adjustment must be performed as follows:

- In the driving position to verify the clearance
- if the stroke was superior turn register **A** on the brake lever

Attention: After each adjustment, tighten the locknut.

For the adjustment of the tension of the brake cable to act on the bolt **B** so that operating the lever on the handlebar braking is immediate, and that the wheel rotates freely when the lever is not operated.





ADJUSTING THE REAR BRAKE

The rear brake is disk type with mechanical control for which requires periodic adjustment interventions.

The clearance on the rear brake lever should be 5 to 6 mm.

The adjustment must be performed as follows:

- In the driving position to verify the clearance
- if the stroke was superior turn register **A** on the brake lever

Attention: After each adjustment, tighten the locknut.

For the adjustment of the tension of the brake cable to act on the bolt **B** so that operating the lever on the handlebar braking is immediate, and that the wheel rotates freely when the lever is not operated.

TIGHTENING THE CHAIN

For a longer duration of the transmission chain should periodically check its tension. Always keep it clean of deposited dirt and lubricate.

If the chain is too much / little tensioned restore proper tension by doing the following:

- Loosen the nut **A**.
- Turn the nut **B** by restoring the correct chain tension.
- Act on the same nut located on the opposite side, taking it in the same position of the previous.
- Check the wheel alignment.
- Tighten the nut **A**.





ADJUSTING CLEARANCE OF THE HANDLEBARS

Act on the grub screw **1** entered in the seat of the handlebar to remove possible clearances.

SEAT HEIGHT ADJUSTMENT

For the height adjustment of the saddle unlock the lever **1**, in order to raise or lower the saddle to the desired position.

Once you have found the correct position lock lever **1**.



CHAPTER 5: WHAT TO DO IN CASE OF EMERGENCY

TOPIC INDEX

TROUBLE SHOOTING

CHAPTER 5: WHAT TO DO IN CASE OF EMERGENCY

TROUBLE SHOOTING

PROBLEM	CAUSE	REMEDY
The engine does not start	The battery is not connected	Check the connectors.
	The battery is low	Recharge the battery.
	Electrical problem	Check all connectors.
The rear wheel does not rotate	The transmission chain is broken	Replace the drive chain.
	Problem in the engine	Check the engine.
The engine switches off during use	The break of the circuit is tripped	Release the throttle and wait until it cools down.
The distance traveled by a charge is too short	The battery is not fully charged	Recharge the battery.

CHAPTER 5: WHAT TO DO IN CASE OF EMERGENCY

PROBLEM	CAUSE	REMEDY
The distance traveled by a charge is too short	The covered surfaces are scope	Along paths not uphill
	Frozen battery	Heat the battery.
	Accelerating feel a strange noise.	Tension the drive chain
	Old battery or ruined	Replace the battery
The vehicle stops brusquely while in use	Blown fuse	Replace the fuse
	Cable damaged	Check and repair or replace the cable.
The battery do not receives the charge	Low battery	Replace the battery
	Broken battery charger	Replace the battery charger

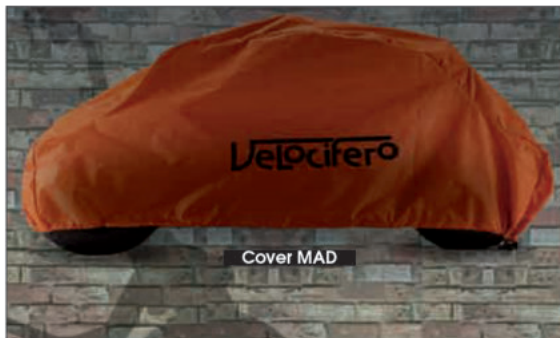
ALPHABETICAL INDEX

Access and activation battery and motor	23	Generality	6	Safety, tips and recommendations	7
Adjusting clearance of the handlebars.	39	Height adjustment of the handlebars.	22	Scheduled Maintenance	33
Adjusting the front brake.	36	Main elements	14	Seat height adjustment.	40
Adjusting the rear brake.	37	Maintenance and checks to be carried	31	Symbols.	6
Appropriately clothing	34	Maintenance, generality	31	Starting	27
Battery charging	26	Mounting saddle	24	Technical data.	17
Battery Disposal	34	Opening of the handlebar	20	Throttle and front brake.	28
Brake system.	30	Positioning knobs on the handlebar	21	Tightening the chain	38
Checks after cleaning.	32	Rear brake control.	29	Trouble Shooting	40
Commands.	17			Vehicle Disposal.	34
Contents of the box	16			Wiring diagram	18
Eco-driving	12				

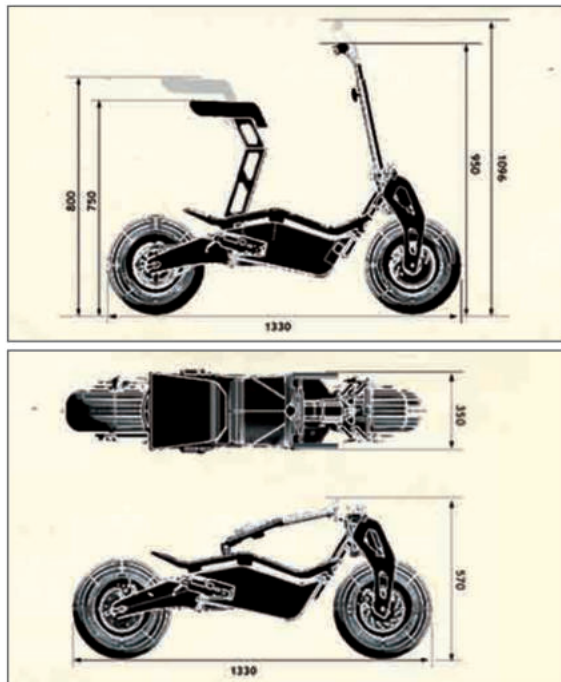
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