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# EREBUS



EREBUS 28"



USER MANUAL

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# 1. FOREWORD

## 1.1 General

This manual is an integral and essential part of the pedal assisted bicycle model E - EREBUS 28". Prior to commissioning, it is imperative that users read, understand, and strictly follow the following dispositions.

The manufacturer shall not be liable for damage to persons and/or property or for damage to the pedal cycles if they are used in a manner not in accordance with the instructions. In view of the continuous technological development, the manufacturer reserves the right to modify the components, including the chassis, without prior notice.

without prior notice, without automatically updating this manual.

## 1.2 Assistance

For any inconvenience or request for clarification, contact the authorized dealer, who has competent and specialized personnel, as well as specific equipment and original spare parts.

## 1.3 Graphic form of safety warnings

The following graphic warning symbols will be used to identify the safety messages in this manual. They are intended to draw the attention of the reader/user to the proper and safe use of the pedal-assisted bicycle.



**ATTENTION**

**It highlights behavioral rules to keep in order to avoid damage to the pedal assisted bicycle and/or the onset of dangerous situations.**



**DANGER**

**It highlights the presence of dangers that cause residual risks to which the user must pay attention in order to avoid injury or material damage.**

## 2. SAFETY WARNINGS



**ATTENZI-**

### **USING THE PEDAL-ASSISTED BICYCLE**

Every user must first read the instruction manual, especially the chapter on safety instructions.



**ATTENTION**

### **HAZARDS OF PEDELEC USE**

- Despite the application of safety devices, for safe use of your pedal assist bicycle, please take note of all accident prevention requirements in this manual.
- -lways remain focused while riding and **DO NOT** underestimate the residual risks associated with riding a pedal assist bicycle.

### 2.1 General safety rules

Even if you are already familiar with the use of pedal-assisted bicycles, you should follow the instructions given here, in addition to the general precautions to be observed when riding a motor vehicle general precaution to be observed when riding a motorized bicycle.

Specifically:

- Acquire full knowledge of the pedal assisted bicycle.
- Read the manual carefully to learn about its operation, safety devices, and all necessary precautions for safe use of the bicycle. to use the bike safely. All this is to enable safe use.
- Carefully maintain your pedal assisted bicycle in perfect working order.

For any inconvenience or request for clarification, please contact the authorized dealer without hesitation, who has at his disposal competent and specialized personnel, specific equipment and original spare parts.

### 2.2 Responsibility

Failure to comply with the operating instructions and safety prescriptions contained in this manual exempts the manufacturer from any liability.

If the pedal assisted bicycle is not serviced in accordance with the instructions provided, with non-original spare parts or in any case in such a way as to impair its integrity or change its characteristics, the manufacturer will be held harmless from any responsibility regarding the safety of persons and the defective operation of the pedal assisted bicycle.



**ATTENTION****UNAUTHORIZED MODIFICATIONS**

**If you hear unusual noises or feel anything strange, stop your pedal assisted bicycle immediately. Check it later and, if necessary, contact your authorized dealer.**

For any information that is not included or cannot be deduced from this manual, please consult your authorized dealer directly.

**2.3 Warning fo users**

1. It is forbidden to load a passenger.
2. It can only be used by adults and experienced kids. Do not take alcohol or drugs before riding the pedal assisted bicycle.
3. These pedal assisted bicycle models are designed and built to be used outdoors, on private and public roads and environments.
4. Do not ask the pedal assist bicycle to perform beyond what it was designed for.
5. Never ride your pedal assist bicycle with any parts removed.
6. Avoid uneven surfaces and obstacles.
7. Ride with both hands on the handlebars.
8. Replace worn and/or damaged parts, check that guards are working properly before use.

**2.4 Maintenance warnings**

1. All maintenance operations must be carried out with the battery disconnected.
2. During each maintenance phase, operators must be equipped with the necessary accident prevention equipment.
3. The tools used for maintenance must be suitable and of good quality.
4. Do not use gasoline or flammable solvents as cleaning agents, but always use non-flammable and non-toxic solvents.
5. Limit the use of compressed air for cleaning as much as possible (max 2 bar) and protect yourself with goggles with side shields.
6. Never resort to the use of open flames as a means of lighting when carrying out inspection or maintenance operations.
7. After any maintenance or adjustment, make sure that no tools or foreign bodies are left between the movement parts of the pedal- assisted bicycle.

**ATTENTION****ORIGINAL REPLACEMENTS**

**Use only original spare parts supplied by M.B.M. S.r.l. Any liability of the Manufacturer for damage or loss of functionality caused following the use of non-original accessories and parts is excluded.**



## 2.5 Other provisions

The first thing to do when starting use is to check the presence and integrity of the protections and the operation of the safety devices. If you find any defects, do not use the pedal assisted bicycle!



**WARNING**

### FENDERS

**It is therefore strictly forbidden to modify or remove the guards, controls, labels and information plates.**

## 2.6 Unpacking and tuning

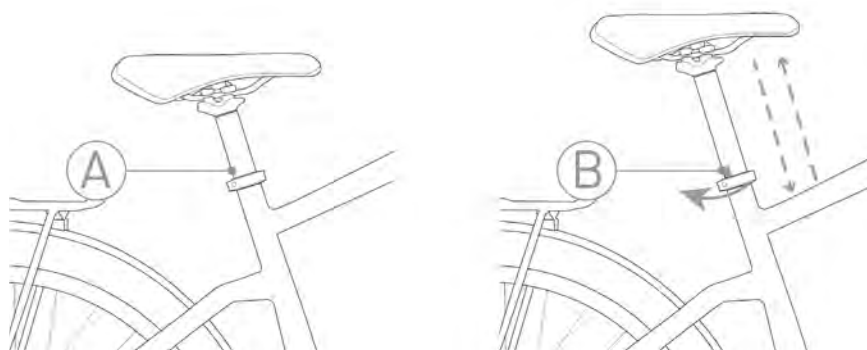
The pedal assisted bicycle is delivered fully assembled and in working condition.

### 2.6.1 Saddle adjustment

Adjusting the height of the saddle is an essential prerogative for the correct use of the pedal assisted bicycle. Incorrect adjustment can generate structural breaks in the frame.

Adjust the height of the saddle by activating the quick release mechanism (Ref. A - Figure 1).

Check that the mechanism is tightened before testing the seat and using the vehicle. Do not raise the saddle beyond the limit switch signal located in the seat post (Ref. B - Figure 1).



**FIG. 1**



**WARNING**

### IMPORTANT NOTICE:

**For your safety, the seatpost reference mark (B) should never be outside the tube into which the seatpost is inserted.**



**ATTENTION**

### ASSEMBLY

**In the event that you do not have the appropriate instrumentation for adjustment or do not have the skills, contact the authorized reseller.**



## 2.6.2 Montage Pedals

Right Pedal: it is identified by the letter R marked on its pin.  
For pedal mounting, screw by turning the pin clockwise.  
(Figure 2)

Left Pedal: it is identified by the letter L marked on its pin.  
For pedal mounting, screw by turning the pin counterclockwise.  
(Figure 2)



**ATTENTION**

### ASSEMBLY

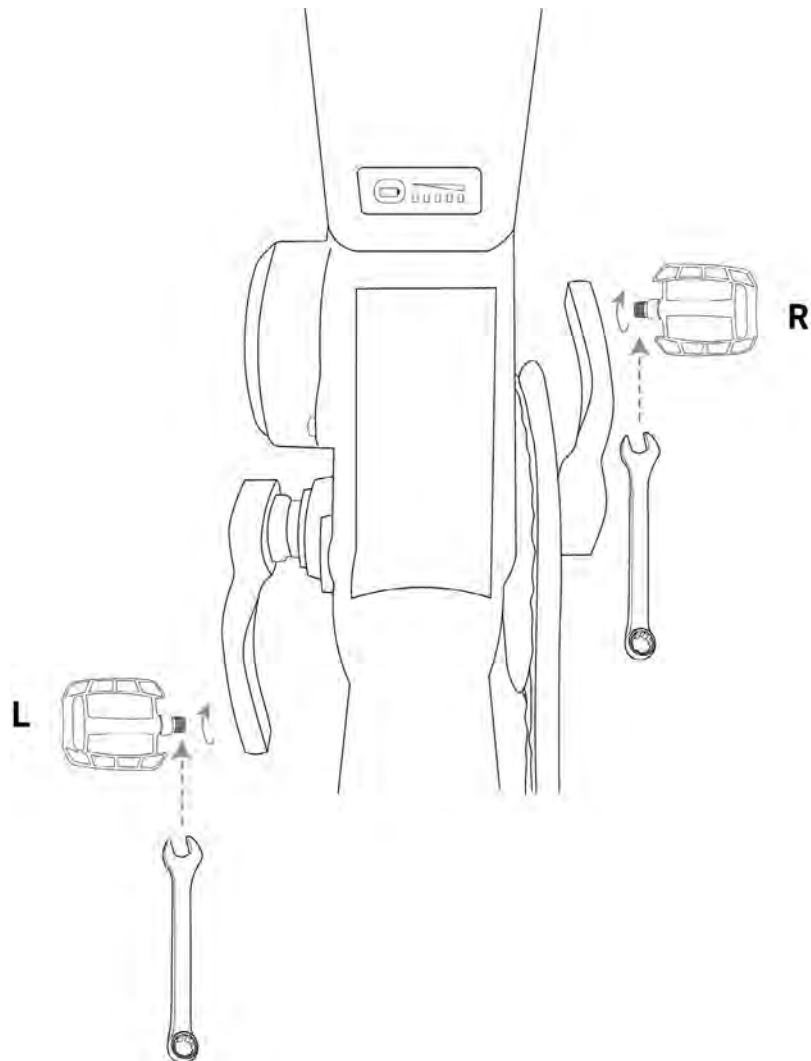
**For a correct setting of the pedals is necessary use a key of 15**



**ATTENTION**

### ASSEMBLY

**In the event that you do not have the appropriate equipment for adjustment or do not have the skills, contact the authorized dealer.**



**FIG. 2**



## 3. DESCRIPTION OF BICYCLE

### 3.1 General description

The pedal-assisted bicycle is designed and built to be used outdoors, on roads and private or public environments. In particular, the components and the type of pedal-assisted bicycle, allow you to face paths with asphalted and dirt surfaces without particular roughness.



**WARNING**

#### **INCORRECT AND UNINTENDED USE**

**The bicycle has been designed and manufactured for the specified use; a different use and non-compliance with the technical parameters set by the manufacturer, may constitute a dangerous condition for users.**

The pedal-assisted bicycle is equipped with a rechargeable battery and an electric motor, whose intervention takes place only in conjunction with the pedaling and gradually stops as the speed of the vehicle approaches 25 km / h, and then stops completely at that speed.

For the management of the assistance system there is a special control located next to the left knob, on the handlebar. On the right side of the handlebar there is a control system for gear selection..



## 3.2 Technical sheet

### 1. MOTOR AND CONTROLS

### 2. MOTOR

### 3. SADDLE

### 4. BATTERY

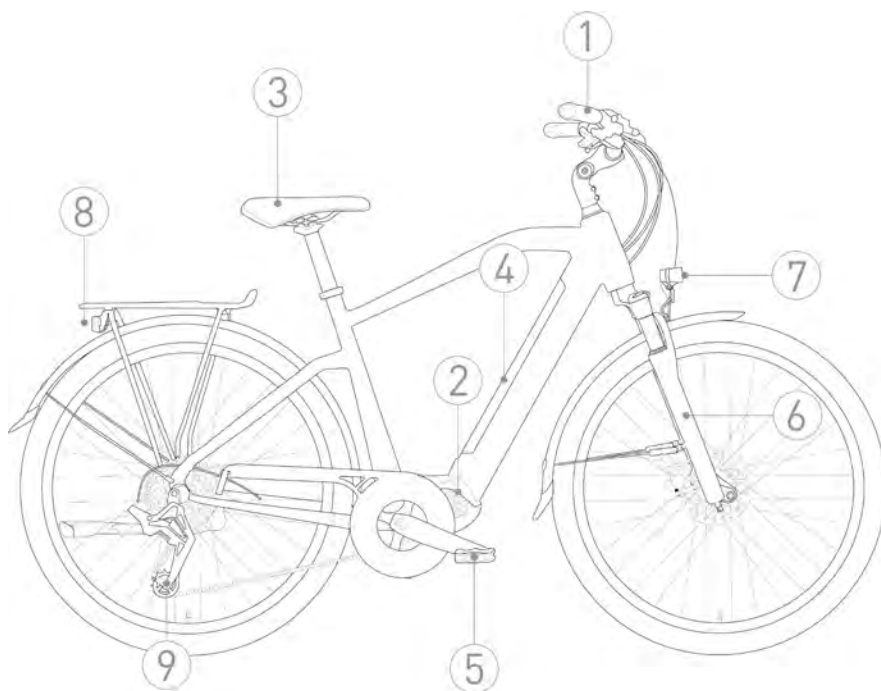
### 5. PEDALS

### 6. FORK

### 7. FRONT LIGHT

### 8. REAR LIGHT

### 9. REAR DERAILLEUR



<b>CODE</b>	<b>E809 MAN</b>
<b>FRAME</b>	<b>ALUMINIUM HYDROFORMED</b>
<b>FORK</b>	<b>SUSPENSION WITH ADJUSTMENT</b>
<b>CRANKSET</b>	<b>38 TEETH</b>
<b>REAR DERAILLEUR</b>	<b>DEORE</b>
<b>SHIFTER</b>	<b>10 SPEEDS</b>
<b>BRAKES</b>	<b>SHIMANO BR-M315 HYDRIC DISK</b>
<b>DISKS</b>	<b>SHIMANO ANT: Ø 180 MM POST: Ø 160 MM</b>
<b>WHEELS</b>	<b>28*2.00</b>
<b>SADDLE</b>	<b>SADDLE ITALIA SPORTOURER</b>
<b>PEDALS</b>	<b>RIGHT AND LEFT NON-SLIP POLYMER MATERIAL</b>
<b>MOTOR</b>	<b>OLI SPORTS 85 NM</b>
<b>BATTERY</b>	<b>PHYLION BN-18, 14 AH, 504 WH</b>
<b>SPEED</b>	<b>25 KM/H</b>
<b>DISPLAY</b>	<b>LCD</b>
<b>POWER LEVEL</b>	<b>5 LEVELS</b>
<b>WEIGHT</b>	<b>25 KG</b>



### 3.3 Brake levers

The brake levers (Ref.C - Figure 3) are placed on the handlebars of the pedal-assisted bicycle, near the knobs (Ref. D- Figure 3). These systems make it possible to control the calipers of the brake discs, located near the wheel hubs. The right lever controls the rear brake, the left one the front brake; the braking action is proportional to the force applied on the lever.

### 3.4 Speed change

The pedal-assisted bicycle has a 10-speed gearbox with the sprockets positioned on the hub of the rear wheel, selectable by means of the opposing levers, located at the base of the right knob. The indicator (Ref. E - Figure 3) at the top of the handlebar allows you to view the selected ratio.

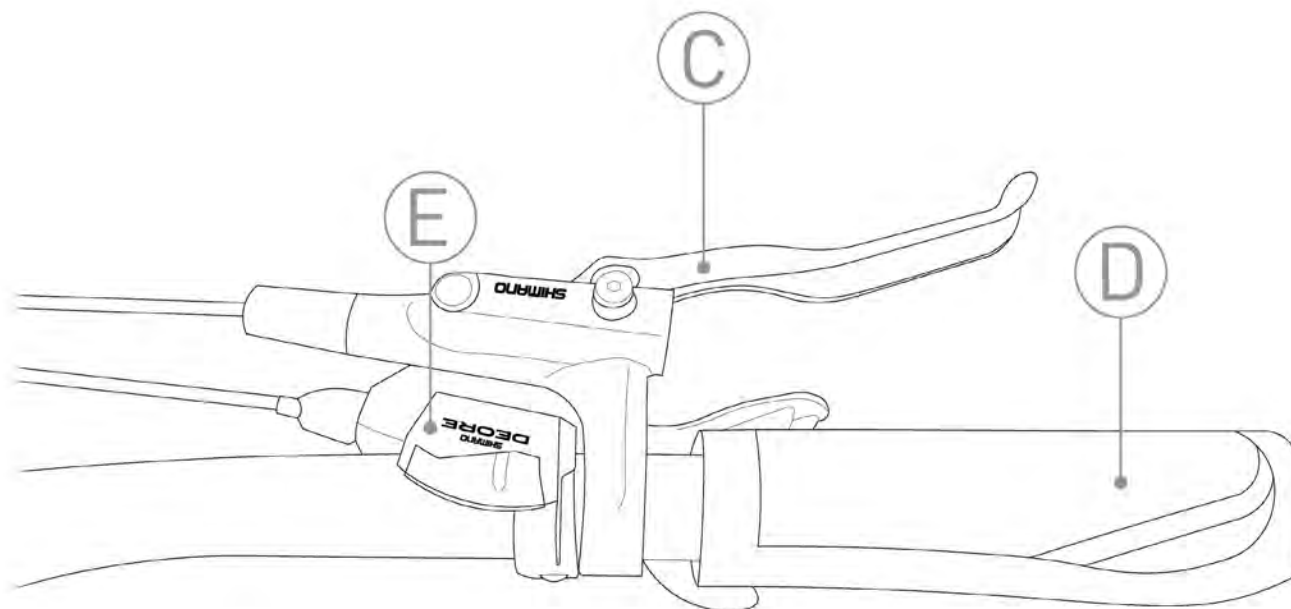


FIG. 3

### 3.5 Assistance system management

#### 3.5.1 Service management commands

The pedal-assisted bicycle has, in the center of the handlebar, a display that allows you to manage the operation of the electric motor, in addition to other basic functions illustrated below. (Figure 4)

Near the left knob of the handlebar are 3 buttons, which can be used with a short or long press, thanks to these you can control the functionality of the display. (Figure 5)

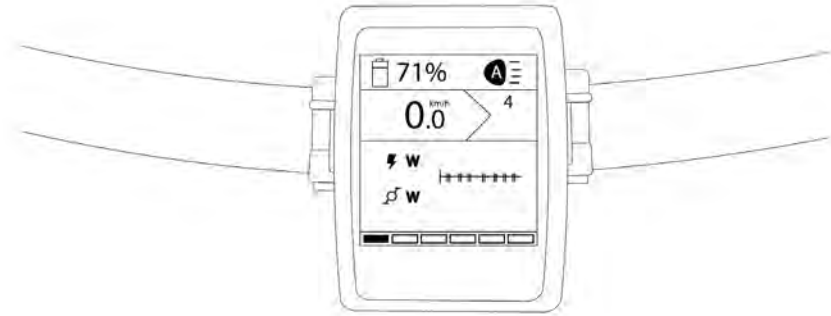


FIG. 4

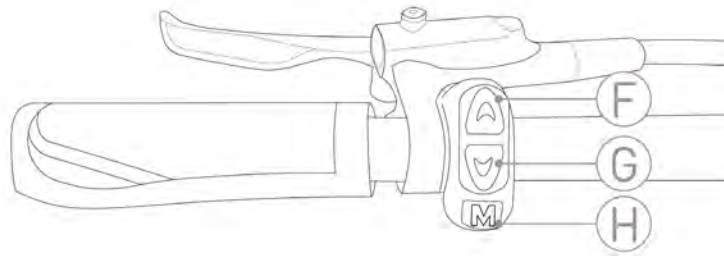


FIG. 5

button	Short pressure/ <1 second	prolonged pressure/ > 2 seconds
H-power	Allows you to: Scroll through the Home from one Main Screen to another; Scroll between Home and Menus; confirm the action during the changes.	Allows you to: Turn the display on and off; from the Menu and Advanced section, return to the last Home screen displayed.
F-up	Allows you to scroll through menu items, going up. allows you to increase the level of assistance.	from any main screen allows you to change the mode of operation of the lights.
G-down	allows you to scroll through menu items, going down. allows you to reduce the level of assistance.	from any main screen allows you to activate the Walk mode
F+G down+up	-	from the main screens, the simultaneous press of the two buttons, allows you to access the menu.

#### 3.5.2 Turning the system on/off

To activate the system, press the "POWER" button (Ref.H - Figure 5) until the power diagram is displayed or press the "ON" button on the battery. To turn off the display, press and hold the "POWER" button until the power off screen appears or press the "OFF" button on the battery.



### **3.5.3 Activate support**

The engine is activated, and is deactivated immediately if the pedaling ceases. The power of the engine depends on the force imprinted on the pedals, according to a multiplicative factor depending on the level of assistance selected.

### **3.5.4 Setting the level of assistance**

From any screen of the home section, you can change the level of assistance by pressing the "UP" button (Ref. F - Figura 5) to increase it and the "DOWN" button (Ref. G - Figure 5) to decrease it.

#### **Multiplicative factor for each level of care:**

**LEVEL 0 - MULTIPLICATIVE FACTOR 0% (ENGINE NOT RUNNING)**

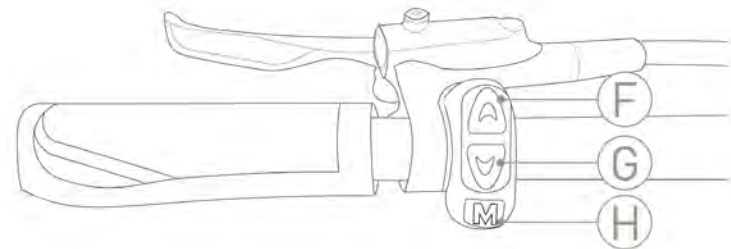
**LEVEL 1- MULTIPLICATIVE FACTOR 50%**

**LEVEL 2 - MULTIPLICATIVE FACTOR 100%**

**LEVEL 3 - MULTIPLICATIVE FACTOR 200%**

**LEVEL 4 - MULTIPLICATIVE FACTOR 300%**

**LEVEL 5 - MULTIPLICATIVE FACTOR 400%**



**FIG. 5**



**ATTENTION**

**ATTENTION:**

**The engine has 5 levels of assistance that increase the power provided by the engine. If you put on 0 the engine is switched off.**

### 3.6 Graphic Display interface

After powering on, the first Distance screen of the home section appears. The Home section consists of 6 screens. To scroll through the screens, you need to press the "POWER" button.

From any screen in the home section, you can:

- > Adjust the level of assistance by pressing the "UP" and "DOWN" keys;
- > Enter the Walk mode, holding down the "DOWN" button;
- > Adjust the brightness of the eBike lights, holding down the "UP" button for 2";
- > Enter the Menu section, holding down the "UP"+"DOWN" keys for 2" at the same time.

#### 3.6.1 General screen composition

The screens in the home section differ from each other in the type of information display. (Figure 4.1)

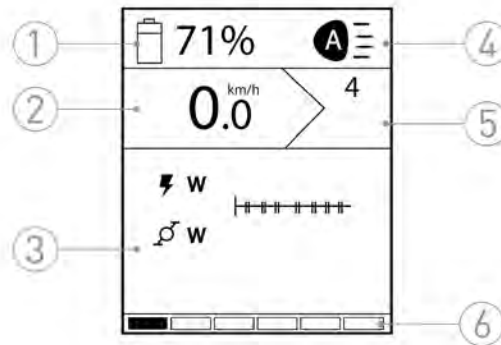


FIG. 4.1

**1- BATTERY**  
-CHARGE STATUS PERCENTAGE.

**2- E-BIKE CURRENT SPEED**  
IN KILOMETERS/HOUR (KM/H).

**3- POWER GRAPHICS DISPLAY**  
-UPPER BAR: ENGINE POWER,  
- LOWER BAR: CYCLIST POWER.

**4- E-BIKE LIGHT ADJUSTMENT**  
AUTOMATIC/ON/OFF(RIF.3.7)

**5- SERVICE LEVEL**  
(RIF. 3.5.4)

**6- NAVIGATION BAR**  
PRESENT ON EACH SCREEN, INDICATES  
THE CURRENT SCREEN.

- ENGINE POWER
- CYCLIST POWER
- TRIP  
DISTANCE TRAVELLED FROM THE START OF THE LAP
- TIME ELAPSED SINCE THE START OF THE TOUR
- PEDAL CADENCE
- ENERGY BURNED BY THE CYCLIST
- AVERAGE CONSUMPTION E-BIKE
- TOTAL DISTANCE
- TRAVELED AVERAGE SPEED



### 3.7 On-board computer modality

The on-board computer is able to adapt to different use scenarios, from switching to sports use. To move between the available display modes, briefly press the "POWER" button (Ref. H - Figure 5).

#### 3.7.1 "RACE" modality"

It is the fifth screen in the home section.

In this screen the values in watts (w) of the motor power and cyclist power are expressed in full. (Figure 4.2) This mode of use is addressed to experienced users, and to a sporty use of the e-bike. (Figure 4.2)

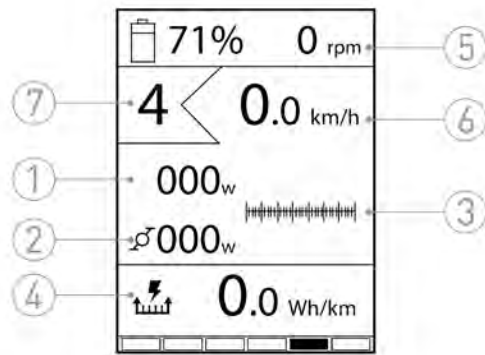




FIG. 4.2


#### 1- POWER

 Indicates the instantaneous power delivered by the motor in watts (w).


#### 2- CYCLIST POWER

 Indicates the instantaneous power expressed by the cyclist in watts (w).

#### 3- POWER DISPLAY

 Graphic display of the upper bar power: engine power lower bar: cyclist power.

#### 4- ENERGY CONSUMPTION

 Indicates the average energy consumption in watt-hours per kilometer (Wh/km), calculated since the last zeroing.

This data allows to adjust the level and five of the consumption of the eBike according to the need.

By calculating the ratio between this data and the capacity of the battery, the exact possible mileage data for each charge is obtained.

#### 5- CADENCE

#### 6- CURRENT SPEED

#### 7- SERVICE LEVEL

$$\text{battery capacity} \div \text{average consumption} = \text{Passable km}$$



### 3.7.2 Summary mode

It is the sixth screen of the home section.

This screen summarizes the variable parameters of the previous screens. (Figure 4.3)



FIG. 4.3

1-Indicates the distance traveled in kilometers (km) from the last reset.

2-Indicates the time spent in motion since the last reset. The value is expressed in hours:minutes:seconds.

3-Indicates the average speed in kilometers per hour (km/h) detected since the last reset.

4-Indicates the average energy consumption in watt-hours per kilometer (Wh/km), calculated from the last reset.

5-Indicates the energy consumed by the cyclist in kilocalories (kcal) since the last reset.

6-Indicates the total distance traveled by the eBike in kilometers (km). Non-resettable value.



### 3.8 Walking assistance mode

The system is equipped with a walking assistance function, which allows you to activate the engine up to a maximum speed of 6km/h to allow you to tackle more easily short stretches pushing the e-bike.

To activate the walk assistance function, press and hold the "DOWN" button (Ref. G in Figure 5). The engine will activate, and the appropriate warning will be displayed on the display. The engine will shut down in the following cases:

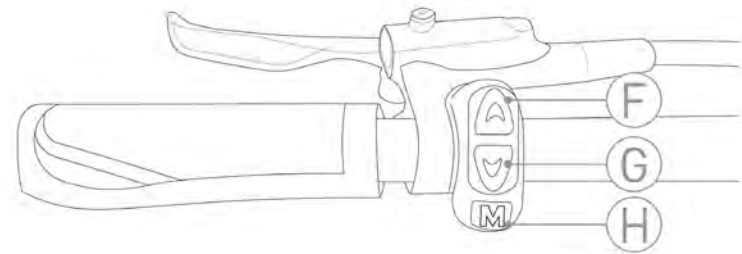
- Release of the "DOWN" button (Ref. G in Fig- 5)
- Speed over 6 km/h
- Locking the e-bike wheel

NOTE: By selecting the assistance level "0", the motor is completely disabled, and it is not possible to use the walking assistance function.



**ATTENTION**

**Attention:**  
**Walking assistance mode**  
**before activating the walking assistance mode,**  
**hold the handlebars firmly in such a way as to**



**FIG. 5**



### 3.9 Menu

By simultaneously pressing the "UP"+"DOWN" buttons (Ref. F - G - Figure 5) for two seconds you can open the menu screen. From any screen, by holding down the "POWER" button for 2", you can return to the last Screen - ta Home displayed. Once inside you can move in the menu with the "UP" and "DOWN" buttons and press "POWER" as send.



**ATTENTION**

**Before pressing the F and G keys at the same time (Figure 5) position yourself firmly on the bike and apply the brake, so as not to unintentionally operate the departure from a standstill.**

<u>MENU</u>
Reset trip
Advanced
System info
Battery info
Back

**FIG. 4.4**

**RESET TRIP**

THE RESET TRIP ITEM ALLOWS YOU TO RESET ALL THE RECORDED LAP DATA BRINGING THE COUNTERS BACK TO ZERO (0).

**ADVANCED**

SELECTING THIS FUNCTION OU ENTER THE ADVANCED SETTINGS MENU.

**SYSTEM INFO**

ON THIS SCREEN YOU CAN VIEW THE VERSIONS OF THE FIREWARE, THE INSTALLED HMI AND THE COMBINED ENGINE.

**BATTERY INFO**

BY SELECTING THIS FUNCTION, YOU CAN VIEW THE BATTERY INFORMATION.

**BACK**

SELECTING THIS FUNCTION RETURNS YOU TO THE HOME SCREEN.

Selecting the ADVANCED setting leads to the advanced settings menu, where you can change or control the essential parameters of the display. Specifically, you can change the brightness, language, unit, weight, gender and night mode.

<u>ADVANCED</u>
Brightness
Language
Unit
Weight
Gender
Night Mode
Back

**FIG. 4.5**



### **3.9.1 Screen brightness**

From this screen you can adjust the brightness of the screen. Use the "UP" and "DOWN" keys to scroll through the values from 1 to 10. The selected value is highlighted in the center in the white row. (Figure 4.6)

BRIGHTNESS
4
5
6
7
8

**FIG. 4.6**

### **3.9.2 Change language**

From this screen you can choose the language of the texts of the unit. Use the "UP" and "DOWN" keys to scroll through the available items. The selected value is highlighted in the center in the white line. (Figure 4.7)

LANGUAGE
Italiano
English
Français
Deutsch
Español

**FIG. 4.7**

### **3.9.3 Units of measurement**

From this screen you can select the unit of measurement with which they are calculated:

- > Instantaneous speed,
- > Average speed,
- > Average consumption,
- > lap distance,
- > Total distance.

Use the "UP" and "DOWN" keys to scroll through the available items. The selected value is highlighted in the center in the white line. (Figure 4.8)

UNIT
Km
Miles
Back

**FIG. 4.8**

### 3.9.4 Weight

From this screen you can set your body weight by setting a value between 50 and 150 kg. Setting this data is not necessary for the proper functioning of the eBike. The value has the sole purpose of making the calculation of calories consumed reliable.

Use the up and down keys to scroll through the available items. The selected value is highlighted in the center in the white line. (Figure 4.9)

<u>WEIGHT</u>
68
69
70
71
72

**FIG. 4.9**

### 3.9.5 Gender

From this screen you can set your gender. Setting up this data is not necessary for the proper functioning of the eBike. The value has the sole purpose of making the calculation of calories counted.

Use the up and down keys to scroll through the available items. The selected value is highlighted in the center in the white line. (Figure 4.10)

<u>GENDER</u>
Male
Female
Back

**FIG. 4.10**

## 3.10 ERROR CODE

In the event of an anomaly, the system reports the problem to the user by displaying a danger icon combined with a 4-character code, which allows you to trace the type of error.

Depending on the type of anomaly, the system may prevent the engine from activating or make it run at reduced power. Where it is indicated "to request assistance", the intervention of a specialized technician OLI eBike Systems is necessary.



**ATTENTION-**

**Depending on the type of failure, the system could prevent the engine from starting or operating at maximum power.**



ANOMALY CODE	DESCRIPTION
0001	PROBLEM COMMUNICATING WITH BATTERY. BATTERY STATUS DATA MAY BE DISPLAYED INACCURATELY. CHECK THAT THE WIRING AND CONTACTS OF THE BATTERY ARE CONNECTED CORRECTLY AND INTACT.
0101	COMMUNICATION PROBLEM BETWEEN DRIVE AND HMI. CHECK THAT THE WIRING IS CONNECTED CORRECTLY AND INTACT.
0104	SPEED SENSOR NOT DETECTED. CHECK THAT THE ALIGNMENT BETWEEN THE MAGNET AND THE SPEED SENSOR IS CORRECT. CHECK THAT THE SPEED SENSOR IS INSTALLED AND CONNECTED CORRECTLY.
0105	NON-COMPLIANT TORQUE TRANSDUCER SIGNAL. THE TORQUE TRANSDUCER SIGNAL HAS AN ANOMALY. LOW POWER OPERATION.
0106	OFFSET TORQUE TRANSDUCER NOT COMPLIANT. THE TORQUE TRANSDUCER SIGNAL HAS AN ANOMALY.
0801	ANOMALY TO MOTOR ROTATION SENSORS.
0802	PEDAL ROTATION SENSOR ANOMALY.
0804	EXCESSIVE DRIVE TEMPERATURE. THE TEMPERATURE SENSOR HAS DETECTED A TEMPERATURE ABOVE THE THRESHOLD OF DANGER.
0805	EXCESSIVE ENGINE TEMPERATURE. THE ENGINE HAS REACHED A TEMPERATURE ABOVE THE DANGER THRESHOLD.
0806	NON-COMPLIANT PERIPHERAL BUS VOLTAGE.
808	LOCKED ROTORS. THE ENGINE FAILED TO START DUE TO A MECHANICAL BLOCKAGE OR A PROBLEM WITH THE INTERNAL WIRING OF THE DRIVE UNIT.
0809	THE BATTERY VOLTAGE IS HIGHER THAN THE MAXIMUM ALLOWED.
0810	NON-COMPLIANT CURRENT SENSOR SIGNAL.
0811	THE DRIVE DETECTED AN OVERCURRENT.
1101	COMMUNICATION PROBLEM BETWEEN HMI AND DRIVE. CHECK THAT THE WIRING IS CONNECTED CORRECTLY AND INTACT.
1102	A BUTTON PANEL IS LOCKED IN THE PRESSURE POSITION.



### 3.10 Troubleshooting

PROBLEM	CAUSE/SOLUTION
THE SYSTEM DOES NOT TURN ON	CHECK THAT THE BATTERY IS PROPERLY INSERTED IN PLACE, AND THAT IT IS CHARGED.
SUPPORT DOES NOT ACTIVATE	CHECK THAT THE SELECTED LEVEL OF ASSISTANCE IS GREATER THAN 0, AND THAT THE LEVEL OF CARI-BATTERY APPROX IS SUFFICIENT.
THE DISPLAY DISPLAYS AN ERROR MESSAGE	THE SYSTEM DETECTED AN ANOMALY. DEPENDING ON THE TYPE OF ANOMALY, THE ENGINE MAY BE DEACTIVATED OR OPERATE AT REDUCED POWER. FOR MORE DETAILS REFER TO CHAPTER 3.10.
THE DISPLAY GLASS IS FOGGED	FOLLOWING SUDDEN CHANGES IN ENVIRONMENTAL CONDITIONS, CONDENSATION IS POSSIBLE INSIDE THE GLASS. CONDENSATE WILL DISAPPEAR AS A RESULT OF TEMPERATURE STABILIZATION.



#### ATTENTION

**If after these operations the problem persists, request support at a service center.**



### 3.11 Battery

The bicycle provides pedaling assistance by means of an electric motor powered by the battery placed in the down tube of the frame structure (Figure 6)

#### 3.11.1 Battery charge status

You can view the battery charge status directly on the assistance system management display.

In the event that the battery is disassembled from the vehicle or you want to see the state of charge without turning on the assistance system, at the bottom of the battery there is a button (Ref. I - Figure 6) that allows, through 5 LED lights (Ref. L - Figure 6), to display the charge status.

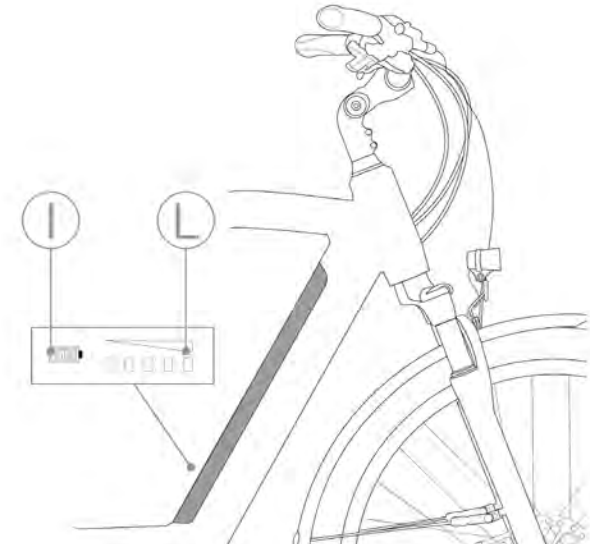


FIG. 6

#### 3.11.2 Battery removal/ installation

To remove the battery, make sure the assistance system is turned off and do the following:

- 1-Insert the battery lock/unlock key into the appropriate lock at the top left of the frame, in the vicinity of the handlebar and rotate the keys counterclockwise (Ref. M - Figure 7);
- 2- Holding the key rotated, unhook the battery and lift it (Ref.2 - Figure 7).
- 3- Take out the battery completely, taking care not to hit the frame.



FIG. 7

For install the battery proceed What Follows:

1- This procedure should be done without the unlock key, remove it if inserted.

2- Align the battery above the oblique pipe of the frame by first matching the electrical connector (Ref. 0 - Figure 8).

3- Carefully insert the battery into the frame until you hear the closing click of the lock. At this point the battery is already self-locked.



**FIG. 8**



### 3.11.3 Battery charging

The battery of the pedal-assisted bicycle can only be recharged by removing the bat-  
teria.

To charge the battery proceed as follows:

- 1- Turn off the assistance system of the pedal-assisted bicycle using the appropriate "MODE" button (Rif. H in Figure 5);
- 2- Remove the battery;
- 3- Connect the supplied battery charger to the socket with the appropriate plug, at the bottom of the battery;
- 4- Connect the battery charger to a power outlet (230 V / 50 Hz) and charge the battery for as long as necessary.

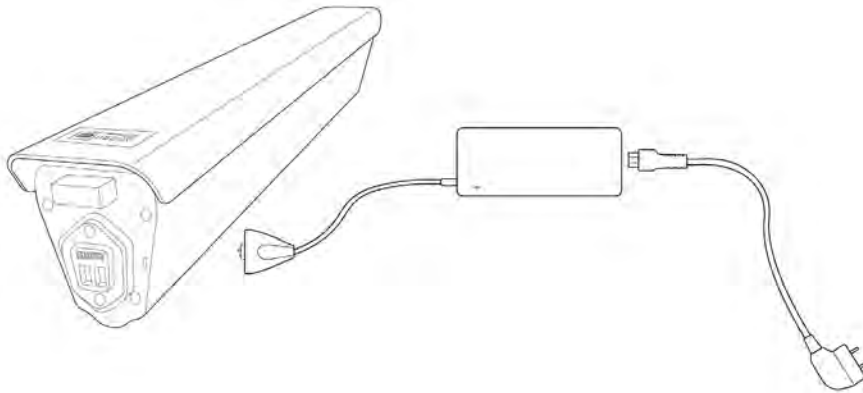


FIG. 9



**ATTENTION**

#### CHARGER

**Always connect the plug to the battery first and then the battery charger to the power outlet.**

### 3.11.4 Troubleshooting

PROBLEM	CAUSE/SOLUTION
The system does not turn on	Check that the battery is charged.
PROBLEM	CAUSE/SOLUTION
The assistance is not activated	Check that the battery charge level is sufficient.



**ATTENTION**

#### TROUBLESHOOTING

**In the event that the assistance system does not activate even if the battery is charged, contact your authorized dealer.**



### 3.12 Front and rear headlight

To ensure visibility both during the day and at night, two headlights are installed, one front and one rear. These devices are operated by means of the control device of the assistance system during the use of the pedal-assisted bicycle.



FIG. 10



FIG. 11

### 3.13 Front suspension

The pedal-assisted bicycle is equipped with a front suspension system that allows you to dampen the stresses caused by the roughness of the route. The suspension model is adjustable by means of special adjustment controls in the upper part of the fork.

In particular, the blue manettino positioned at the top right (Ref. 0 - Fig- 12), allows to block the compression, effectively transforming the suspension from cushioned to Rigid.

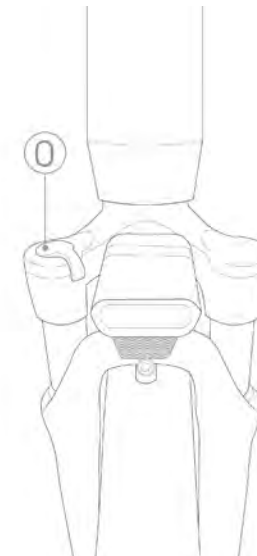


FIG. 12

## 4. CONDITIONS OF USE AND INTENDED ENVIRONMENTS

### 4.1 Intended use

The pedal-assisted bicycle is designed and built to be used outdoors, on roads and private or public environments. In particular, the components and the type of pedal-assisted bicycle, allow you to face routes with asphalt surfaces or with similar characteristics without particular roughness.

Any change in the state of construction can compromise the behavior, safety and stability of the pedal-assisted bicycle and can lead to an accident.

Other types of use, or the extension of the use beyond that envisaged, do not correspond to the intended purpose assigned by the manufacturer, and therefore the same cannot assume any responsibility for any damage that may result.

### 4.2 Environment of use

The pedal-assisted bicycle can be used outdoors, in the absence of adverse weather conditions (rain, hail, snow, strong wind, etc.):

- Maximum permissible temperature: +40 °C
- Minimum permissible temperature: 0 °C
- Maximum permissible humidity: 70 %

The environment of use may have an asphalted bottom or with not excessively high roughness.

In addition, the place of use must be illuminated, by the sun or by artificial lights, in such a way as to guarantee the correct vision of the route and the controls of the pedal-assisted bicycle (recommended from 300 to 500 lux). The pedal-assisted bicycle can be equipped with a white front light and red-light rear torch.

#### PROHIBITED USE ENVIRONMENTS

**The pedal-assisted bicycle should not be used:**

- **In areas at risk of fire or explosion;**
- **In environments with corrosive and/or chemically active atmosphere;**
- **in dimly lit environments;**
- **On excessively inaccessible terrain, given the characteristics of the same (frame, wheels etc ..);**
- **In enclosed spaces, if they do not allow safe use;**
- **In dark environments.**



**ATTENTION**



## 4.3 Improper uses and contraindications

The actions described below, which obviously cannot cover the entire range of potential possibilities of "misuse" of the pedal-assisted bicycle, are to be considered absolutely Prohibited.



**ATTENTION**

### **PROHIBITED OPERATIONS**

- **The execution of prohibited operations invalidates the warranty.**
- **The manufacturer declines all responsibility for any damage to property and persons resulting from the execution of prohibited operations.**



**WARNING**

### **ABSOLUTELY FORBIDDEN**

- **Ride the pedal-assisted bicycle for uses other than those for which it was built, i.e., the pleasure of a passenger.**
- **Ride the pedal-assisted bicycle in areas where there is a danger of explosions.**
- **Ride the pedal-assisted bicycle in adverse weather conditions (heavy rain, hail, snow, strong wind, etc.).**
- **Carrying a passenger in addition to the driver.**
- **Ride the pedal-assisted bicycle under the influence of alcohol or drugs.**
- **Ride the pedal-assisted bicycle if your weight is higher than allowed.**
- **Charge the battery in an environment that is too hot or not sufficiently ventilated.**
- **Cover the battery while charging.**
- **Smoking or using open flame near the charging area.**
- **Perform any maintenance with the battery connected.**
- **Use non-genuine spare parts.**
- **Insert the limbs or fingers between the moving parts of the bicycle.**
- **Use the bicycle on asphalt or dirt terrain with obstacles greater than what is allowed by the vehicle.**



## 5. LIFTING AND TRANSPORT

### 5.1 Lifting

The weight of the pedal-assisted bicycle model E-EREBUS is such that it can be lifted and transported by a person, also because of the overall dimensions.

The optimal solution to perform the movement is to grab a handlebar knob and the back of the saddle.



**PERICOLO**

#### **CRUSHING AND IMPACT**

- **During lifting, extreme caution should be exercised to avoid damage to people and property.**
- **This operation must be performed by robust people.**

**The manufacturer is not liable for breakages due to lifting and/or transporting the pedal-assisted bicycle after delivery.**

### 5.2 Transport

To ensure the safety of transport on vans it is necessary to prevent the movement of the pedal-assisted bicycle. This is achieved by binding it with bands or anchor cables in good condition.

In this regard, coupling devices must be installed so as not to damage the frame and other parts of the bicycle.



**DANGER**

#### **RISK OF ACCIDENT**

- **ALWAYS make sure that the adjustment screws of the frame and handlebars are tightly tightened before each use of the bike. Otherwise, accidents, even serious ones, could result!**



## 6. COMMISSIONING

### 6.1 Battery charge

Before using the bike for the first time you must charge the battery for at least 8 hours, using the appropriate battery charger, supplied.

The pedal-assisted bicycle, model E-EREBUS, is equipped with an electric motor powered by a 36 V lithium-ion battery. The battery pack is housed in the central part of the frame, inside the lower tube.

The average charging time varies from 4 to 6 hours.

The charging operation can be carried out in a well-ventilated box with the battery installed on the bicycle. To charge the battery proceed as in clause 3.11.3.

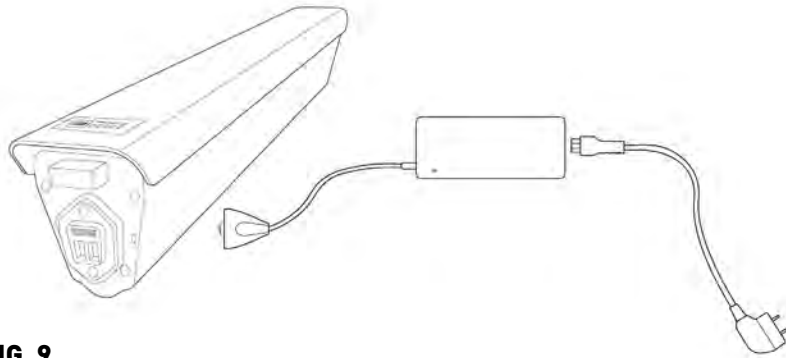


FIG. 9



**ATTENTION**

#### **CHARGER**

**Always connect the plug to the battery first and then the battery charger to the power outlet.**



**ATTENTION**

#### **BATTERY CHARGE**

**The battery should not be completely discharged to preserve its life and not run the risk of damaging it. In any case, the same must be recharged at least every 3 months even in case of non-use of the bicycle.**



**PERICOLO**

#### **PRECAUTIONS WHEN CHARGING**

- **Always connect the plug to the battery and then the power plug to the mains.**
- **When charging is complete, always disconnect the plug from the mains first and then the plug from the battery.**
- **Always recharge the battery completely.**
- **Always use the original supplied power supply.**
- **Do not leave the battery charging for more than 8 hours.**
- **Always recharge in a ventilated environment.**
- **Do not recharge the battery in too hot environments.**
- **Do not recharge the battery in the vicinity of flammable liquids.**
- **Do not cover the battery in any way while charging.**
- **If the battery smells bad, immediately unplug from the mains and ventilate the room, do not touch the battery.**



## 6.2 Preliminary functional checks

Before each use, the driver must ensure the safety status of the pedal-assisted bicycle. Therefore, perform the following inspections before riding the pedal-assisted bicycle.

### 6.2.1 Control devices

Check the efficiency and state of charge of the battery. Use in a very cold environment quickly degrades battery efficiency. Check the tension and lubrication of the chain.

### 6.2.2 Wheels

Check the inflation pressure of the tires. Check the state of wear of the tread: there must be no cuts, cracks, foreign bodies, abnormal bulges, visible canvases and other damage.



**ATTENTION**

**Do not inflate tyres beyond the permissible value reported by the rider on the side surface of the tyres.**

### 6.2.3 Braking

Perform a visual inspection of the braking system verifying that there are no damaged cables or lubricants in the brake and rim braking surfaces. Check the operation of the brakes with a low-speed braking test in an obstacle-free area, first with the rear brake and then with the front brake. Test the efficiency of the braking system on a flat and low-speed route.



**ATTENTION**

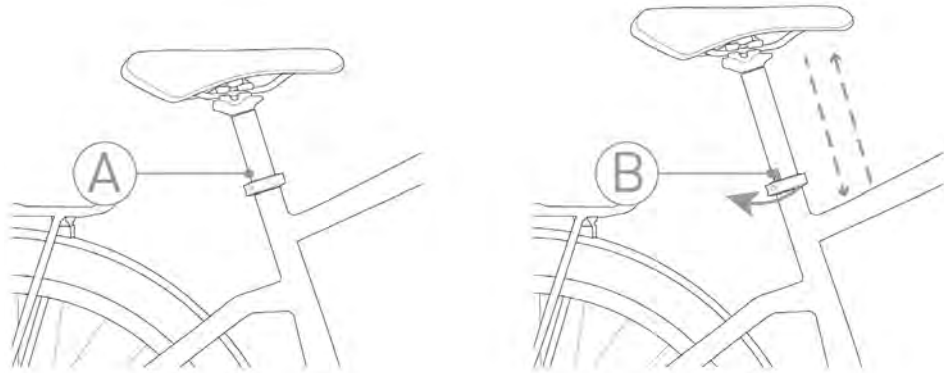
#### **NEGATIVE VERIFICATION**

**In the event that, during the preliminary checks, defects of any kind should be found and even a single verification is negative, DO NOT RIDE THE PEDAL-ASSISTED BICYCLE. Immediately activate all measures to carry out a proper repair and, if necessary, contact the authorized dealer or an authorized workshop.**



### 6.2.4 Frame and saddle position

Check that the frame and saddle are fixed correctly and positioned in the most comfortable configuration for the rider for complete control of the bike. Otherwise, before departure, act on the position and saddle adjustment systems. For more information on the regulation refer to section 2.6.



**IMPORTANT NOTICE:**  
Check that the minimum insertion mark (B) is not visible.

FIG. 1



### 6.2.5 Brake adjustment

Before using the pedal-assisted bicycle, adjust the position of the brake levers on the handlebars to obtain a comfortable and firm grip of the lever and knob during braking. Loosen the screw (Ref. P - Figure 13) and rotate the brake lever to the desiderata position. Check that you have tightened the screw correctly before using the pedal-assisted bicycle.

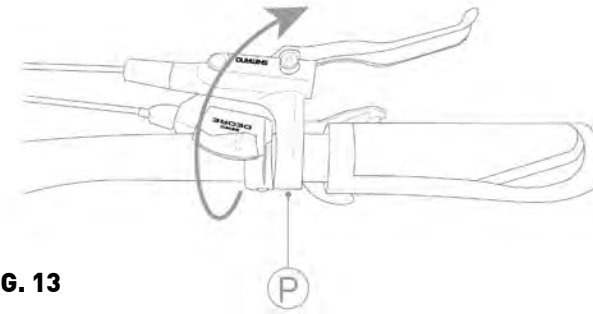


FIG. 13

### 6.2.6 Suspension adjustment

At this point adjust the suspension to make the use of the pedal-assisted bicycle more comfortable.

Depending on the path it is possible, by rotating the blue manettino positioned at the top right (Ref.O - Figure 12), to block the compression, effectively transforming the fork from cushioned to rigid.

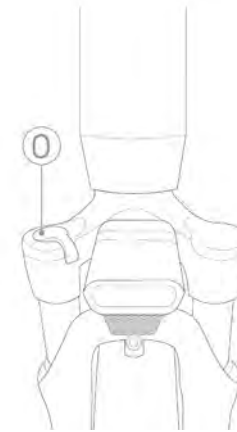


FIG. 12

### 6.2.7 Headlight functioning

Before using the pedal-assisted bicycle, check the operation of the front and rear lights (Figures 10-11) by pressing the on/off button on the display. For further information please refer to section 3.9.



FIG. 10



FIG. 11



**DANGER**

#### ADJUSTMENTS

**It is strictly forbidden to regulate the devices of the bicycle if you are not an experienced and educated person to do so. Incorrect regulation can lead to serious injuries. Therefore, if you are not able to regulate these functions, contact specialized personnel.**

**The manufacturer is not liable for accidents resulting from incorrect regulation of the devices of the pedal-assisted bicycle.**

## 7. USE OF THE BICYCLE

The pedal-assisted bicycle has been designed and built for use in open places, with asphalt bottom or similar, for amateur use.

- It is forbidden to load a passenger in addition to the driver.
- Can only be used by experienced adults and children.
- The use of the pedal-assisted bicycle is not recommended for pregnant women.
- Do not take alcohol or drugs before riding the pedal-assisted bicycle.
- Don't ask your pedal-assisted bike for performance that's superior to what it was designed for. Use the bike only in the manner and intended uses described in this manual.
- Never ride the pedal-assisted bicycle with disassembled parts.
- The pedal-assisted bicycle cannot be used on very wet, icy or slippery surfaces.
- Avoid very uneven surfaces and obstacles.
- Ride with both hands on the handlebars.
- Replace worn and/or damaged parts. Possibly, if necessary, have it checked by authorized personnel.

Before leaving, carry out all the checks reported in the previous chapter and always keep focused while driving, for your own safety and that of others.



**DANGER**

### **DANGER OF ACCIDENTS**

- **Verify that all the commands are fully functional.**
- **Always respect the highway code.**
- **Use the appropriate protective equipment (helmet, etc.)**



## 7.1 USE OF THE BICYCLE

Before using the pedal-assisted bicycle in places open to traffic, it is advisable to familiarize yourself with the behavior of the vehicle.

The first uses must be made in private environments away from traffic, other cyclists or obstacles of any kind.

The driver must adapt the driving speed of the pedal-assisted bicycle to the conditions of the route and the presence of other vehicles or pedestrians. Especially when facing curves, you have to keep a moderate speed (the smaller the curve radius, the lower the speed). When the driver stops pedaling or the speed reaches 25 km/h, the electric motor no longer provides assistance and the bicycle proceeds completely managed by the Pedals.

It is essential to gain experience in driving the pedal-assisted bicycle, before proceeding at a high speed. In case you do not want to use the motor, simply remove the battery or set the lower level of assistance.

## 7.2 Braking

To minimize the stopping distances of the vehicle it is necessary to suddenly stop pedaling and subsequently apply braking force gradually so as not to destabilize the middle.

Encourage the use of the rear brake under braking to stabilize the bicycle.



### ATTENTION

#### DRIVING CONDUCT

**Excessive braking force can trigger harmful phenomena such as locking the wheel or overtuning the vehicle. It is very dangerous to brake when cornering: you may lose control of the bike.**

## 7.3 Bicycle parking

The bicycle is not equipped with a stand for lateral sustenance, therefore, before abandoning the bicycle, check that the pedal-assisted bicycle is supported on stable ground and that remains in a stable position.

The bicycle must be parked in the prepared parking areas and, in any case, without obstructing the passage paths, emergency exits, electrical panels and workstations antifire.



## 8. MAINTENANCE

### 8.1 General



**DANGER**

#### **DANGER OF ACCIDENTS**

**During all maintenance work, follow the appropriate safety measures. All maintenance operations must be carried out with the battery disconnected from the pedal-assisted bicycle and the battery charger and the bicycle resting in a stable manner, taking advantage of special support elements.**

To maintain the full functionality of your pedal-assisted bicycle for a long time, it is necessary to carry out maintenance as prescribed, with correctness and professional skills.

After each ordinary maintenance intervention, a check on the perfect functioning of all the controls is mandatory.

### 8.2 Maintenance and daily checks

#### 8.2.1 Control of nameplates and pictograms

Check the legibility and presence of the CE plate, and the warning stickers applied to the body of the bicycle.

#### 8.2.2 Wheel control

Through the special inflation valve on the rims, check the inflation pressure of the tires using a compressor and a gun with pressure gauge, or a pump. Check the status of the tread, the rim and the attachment of the rims to the hubs. In case of tyre replacement, please contact your authorised dealer or a qualified tyre dealer.



**ATTENTION**

**Do not inflate the tyres beyond the permissible value reported by the maker in the side surface of the same.**



### **8.2.3 Brake functioning control**

The brakes must be adjusted in such a way as to ensure effective braking and at the same time the control levers must have an adequate stroke, in order to modulate the braking: in other words, the brakes must not be too slow or too pulled. Check that brake system discs and pads are not contaminated with oils or soaps. Check the effectiveness of the braking system on flat terrain and at low speeds. Check annually the wear of the brake pads by going to authorized personnel.



**ATTENTION**

**Brake adjustment shall be carried out only by authorised personnel.**

## **8.3 Weekly maintenance and checks**

### **8.3.1 Washing and cleaning**

The cleaning of the pedal-assisted bicycle is not only a matter of decorum, but also allows you to immediately detect a possible defect in the same.

In order not to damage or compromise the operation of the various components, especially the electrical parts, cleaning must be carried out taking some precautions. It is absolutely forbidden to direct jets of pressurized water towards the electrical parts, the motor and the battery, for which sponge washing is recommended.

Before starting the pedal-assisted bicycle, dry completely with low-pressure compressed air and check that there is no residual moisture left on the electrical components.

### **8.3.2 Lubrification and chain tension control**

It is important to periodically clean and lubricate the chain to avoid corrosion due to atmospheric agents.

1. Clean the entire length of the meshes with a rag.
2. Spray on all meshes a special grease in spray for the transmission chains.

Check the correct tension of the chain by placing the cam- bio in the two different extreme positions allowed by the sprocket pack.



**DANGER**

#### **CORRECT CHAIN LUBRIFICATION**

**Be extremely careful not to let the lubricant go on the brakes or tires of the bicycle. This can lead to the occurrence of serious injuries**

### **8.3.3 Frame and bolt control**

The load-bearing frame of the pedal-assisted bicycle and the welds must be free of visible defects such as: cracks, deformations, incisions, corrosions, etc.

Make sure all the bolts of the pedal-assisted bicycle are tightly tightened.



## 8.4 Monthly maintenance and checks

### 8.4.1 Control of electrical circuits and components

Check the condition and fixing of the battery cables: the sheaths of the electrical cables must be in good condition and the terminals must be tight, not corroded and covered with insulating grease.

Check that all light bulbs and lights have been switched on correctly.

### 8.4.1 Control and adjustment of the rear derailleur

Adjustment of the lower and upper limit switches of the gearbox: Turn the two screws (Ref. Q -R - Figure 14) so that the chain does not come out. The chain displacement device must be in line with both the larger and smaller gear. (Ref. Figure 15)

#### Lower limit adjustment

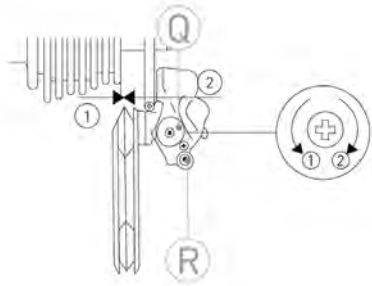


FIG. 14

#### Upper limit adjustment

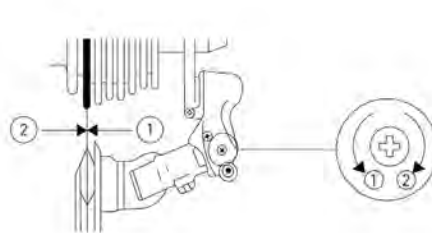


FIG. 15

Adjust the tension of the cable by acting on the appropriate control to ensure the immediate response of the rear derailleur to the mando of the manettino placed on the handlebar. (Ref. Figure 16)

To prevent damage to the gearbox, it is recommended not to exert too much pressure on the pedals while changing gear. So avoid changing when making an effort or driving on a slope.

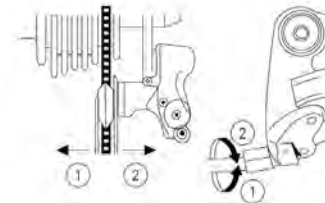


FIG. 16



## 9. TECHNICAL ASSISTANCE AND SPARE PARTS

If you need technical assistance, please contact your authorized dealer.  
In case of assembly of non-original parts, the warranty loses its validity!



### ATTENTION

#### ORIGINAL SPARE PARTS

**The manufacturer is exempt from any liability for damages of any kind, generated by the use of non-original spare parts.**

## 10. WAREHOUSE

In the event that the pedal-assisted bicycle should be stored and stored for long periods of inactivity, the following operations must be carried out:

- Repair it in a dry and airy place.
- Perform a general cleaning of the pedal-assisted bicycle.
- Remove the battery from the seat and store it in the appropriate storage site (fully charged and recharge it regularly).
- Leave the bike on a special support.
- Protect exposed electrical contacts with antioxidant products.
- Grease all surfaces not protected by paints or anti-corrosion treatments.



## 11. DISPOSAL OF COMPONENTS AND MATERIALS



### ATTENTION

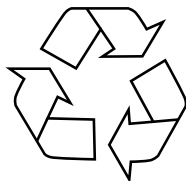
#### DISPOSAL OF MATERIALS

The disposal of packaging, waste and vacuumed dust, of the replaced parts, of the pedal-assisted bicycle as a whole at the end of its expected life, must be carried out in respect of the environment; avoiding polluting soil, water and air respecting in any case the national and local legislation in force on the subject.

#### Indications for waste treatment:

- Ferrous materials, aluminium, copper: these are recyclable materials to be given to a special authorized collection center.
- Plastic materials, fiberglass, gaskets, tires: these are materials to be sent to landfills or recycling centers.
- Batteries must be taken to authorized disposal centers.

Subdivide the materials according to their nature, commissioning specialized companies authorized to dispose of, in accordance with the provisions of the law.





## 12. WARRANTY RULES

MBM srl guarantees that its bicycles are free from any manufacturing defect or invoice. This guarantee covers the repair or replacement of any part recognized to be defective, subject to the following conditions:

### TERMS AND CONDITIONS

- Warranty period: the pedal-assisted bicycle is guaranteed for 24 months on mechanical and electrical parts, except for batteries and all components subject to wear. The batteries are covered by a conditional warranty for 24 months and limited to proper use of the same:

- first 6 months 100% coverage;
- from the 7th to the 12th month 50% coverage;
- from the 13th to the 24th month coverage of 25%;

If the battery has been left to discharge below the allowed, the manufacturer is not responsible for any damage.

- In order to make this warranty operational, you must fill out the online form which is accessed by QR CODE or by typing directly to the site [warranty.mmbike.it](http://warranty.mmbike.it) by and no later than 15 days from the date of purchase of the bicycle. You will need the serial number and the photograph of the proof of purchase of the authorized retailer. The serial number is printed on the plate applied on the straight tube of the bicycle at the bottom bracket.

- Claims must be made through an official retailer by presenting the original tax document (receipt or invoice) and printing of the confirmation of activation of the warranty that you will receive gradually e-mail after filling out the online form.

- The warranty provides for the free replacement of any defective or prematurely worn part provided that all the requirements have been complied with and the improper use of the bicycle is not found. The manufacturer's obligations are limited to the replacement of defective parts.

- Finally, our Technical Department will decide whether or not the defective part or bicycle falls within the conditions of this warranty.

- This warranty does not cover in any way the replacement of worn parts from normal use of the bicycle.



FIG. 17



**ACTIVATE HERE  
WARRANTY**

## **EXCLUSIONS**

Normal wear and tear on parts subject to it, such as tires, chains, brakes, cables and gear wheels in situations where there are no groups or material defects.

- Bicycles assisted by an unauthorized MBM distributor.
- Changes from the original packaging.
- Use of the bike for abnormal activities, such as competition and/or commercial activities, or for purposes other than those for which the bike was designed.
- Damage caused by non-compliance with the user manual.
- Damage to paints and decals as a result of exposing the bike or using it in harsh conditions and climates.
- Labour costs for replacing parts.
- Transport costs.

Except as provided in this warranty and subject to all other warranties, MBM and its employees and agents shall not be liable for any loss or damage of any kind (including incidental and consequential losses or damage caused by negligence or failure) arising out of or relating to any MBM bicycle.

The M.B.M. S.r.l. does not assume responsibility for damage to things and people, due to improper use of the vehicle.

## **13. CONFORMITY**

Hybrid-powered bicycles with a maximum support speed of 25km/h meet the requirements:

- 2006/42/EC Machinery Directive
- 2014/30/EU Electromagnetic Compatibility Directive
- 2011/65/EU Rohs Directive

These bicycles also comply with the following non-harmonized standards:

- Electric bicycles: EN 15194

### **Disclaimer**

It is strongly recommended not to remove or replace any original equipment or to modify the bicycle in any way that may change the design and/or operation. Such modifications could seriously damage the handling, stability and other aspects of the bike, making it unsafe. The removal or modification of parts, or the use of non-original equipment as spare parts, can make the bike no longer comply with applicable rules and laws. To ensure safety, quality and reliability, use only original parts or MBM authorized spare parts for repair and replacement.





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**M.B.M S.r.l. Unipersonale**

**Via Emilia Levante, 1671/73/75 | 47521 Cesena (FC)**

**Tel.: + 39 0547 -300364**

**Fax: +39 0547-304326**

**Email: [info@mbmbike.it](mailto:info@mbmbike.it)**



**W W W . M B M B I K E . I T**