

NEFELE



USER MANUAL

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# 1. PREFACE

## 1.1 Generalities

This manual is an integral and essential part of the NEFELE model pedal-assisted bicycle.

Before putting the bicycle into operation, it is essential that users read, understand and scrupulously follow the following provisions. The manufacturer is not liable for damage caused to people and/or things or to the pedal-assisted bicycle, if it is used incorrectly with respect to the indicated regulations. In view of continuous technological development, the manufacturer reserves the right to modify the components, including the frame, without prior notice and without this manual being automatically updated.

## 1.2 Assistance

For any problem 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

To identify safety messages, the following graphic signal symbols will be used in this manual.

These are intended to draw the reader/user's attention to the correct and safe use of the pedal-assisted bicycle.



**ATTENTION**

It highlights behavioral rules to be followed in order to avoid damage to the pedal-assisted bicycle and/or the emergence of dangerous situations.



**DANGER**

Highlights the presence of dangers that cause residual risks to which the user must pay attention in order to avoid accidents or material damage.

## 2. SAFETY WARNINGS



ATTENTION

### USE OF THE PEDAL-ASSISTED BICYCLE

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



ATTENTION

### RISKS ASSOCIATED WITH THE USE OF THE PEDAL-ASSISTED BICYCLE

- Despite the application of safety devices, for safe use of the pedal-assisted bicycle you must take note of all the prescriptions relating to the prevention of accidents reported in this manual.
- Always remain concentrated while driving and DO NOT underestimate the residual risks associated with the use of the pedal-assisted bicycle.

### 2.1 General safety rules

Even if you are already familiar with the use of pedal-assisted bicycles, it is necessary to follow the instructions given here, in addition to the general precautions to be observed when riding a motorized vehicle. In particular:

- Acquire full knowledge of the pedal-assisted bicycle;
- Read the manual carefully to understand the operation, safety devices and all the precautions necessary for the safe use of the vehicle. All this to allow safe use;
- Maintain the pedal-assisted bicycle with care and in perfect working order;

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

### 2.2 Responsibilities

Failure to comply with the operating instructions and safety requirements contained in this manual exempts the manufacturer from any liability. If the maintenance of the pedal-assisted bicycle is carried out in a manner that does not comply with the instructions provided, with non-original spare parts or in any case in such a way as to compromise its integrity and modify its characteristics, the manufacturer will be held relieved of any liability relating to the safety of people and the defective operation of the pedal-assisted bicycle.

For any data not included or not deducible from this manual, it is recommended to consult the authorized dealer directly.



ATTENTION

### UNAUTHORIZED MODIFICATIONS

If you hear any unusual noises or feel anything strange, stop the pedal-assisted bicycle immediately. Then carry out an inspection and, if necessary, contact your authorized dealer.



## 2.3 Users warnings

1. It can only be used by adults and experienced children;
2. Do not consume 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-assisted bicycle to perform more than it was designed for;
5. Never ride the pedal-assisted bicycle with parts removed;
6. Avoid uneven surfaces and obstacles;
7. Ride with both hands on the handlebars;
8. Replace worn and/or damaged parts and check that the protections work 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 safety equipment;
3. The tools used for maintenance must be suitable and of good quality;
4. Do not use petrol or flammable solvents as detergents, 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 glasses with side shields;
6. Never use naked flames as a means of lighting when carrying out checks or maintenance operations;
7. After each maintenance or adjustment operation, make sure that no tools or foreign bodies remain between the moving parts of the pedal-assisted bicycle.



**ATTENTION**

### **ORIGINAL SPARE PARTS**

**Use only original spare parts supplied by MBM srl. The manufacturer declines all liability for damage or loss of functionality caused by the use of non-original accessories and parts.**

## 2.5 Other provisions

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



**DANGER**

### **REPAIRS**

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



### 3. UNPACKING AND SETTING UP

The pedal-assisted bicycle is delivered fully assembled and functional.  
Before each use, the driver must ensure the safety status of the pedal-assisted bicycle.



**DANGER**

It is strictly forbidden to use the bicycle without having correctly fixed all the parts and used the adjustments to assume a comfortable and safe riding position.

#### 3.1 Saddle adjustment

Adjusting the saddle height is an essential prerequisite for the correct use of the pedal-assisted bicycle. Incorrect adjustment can cause structural breakages to the frame.

Adjust the height of the saddle by operating the quick release mechanism (Ref. A – Fig. 1).

Check that the mechanism is tightened before testing the seat and using the vehicle. Do not raise the saddle beyond the limit signal located on the seat tube (Ref. B – Fig. 1).

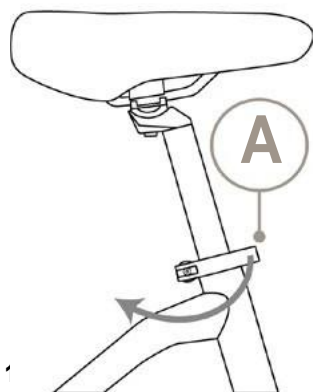
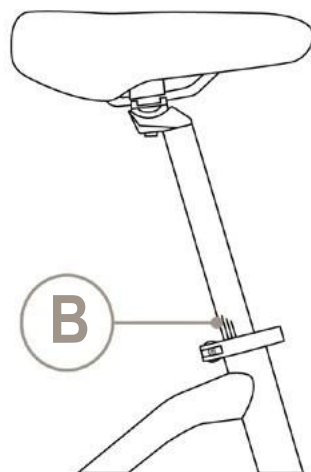


FIG. 1



**DANGER**

#### IMPORTANT WARNING

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



**ATTENTION**

#### ASSEMBLY

If you do not have the appropriate adjustment equipment or do not have the skills, contact your authorized dealer.



### 3.2 Handlebar adjustment

For a comfortable posture on the bicycle, which does not cause neck or back pain, we recommend the handlebar stem height and handlebar bend rotation adjustments.

To adjust the height of the handlebar stem, remove the rubber protection cap (Ref. C – Fig. 2) and loosen the expander screw underneath, without removing it completely, using the appropriate Allen key. At this point, proceed with the height adjustment of the stem, remembering never to exceed the minimum insertion limit (Ref. D – Fig. 2).

Adjust the desired height and tighten the expander screw.

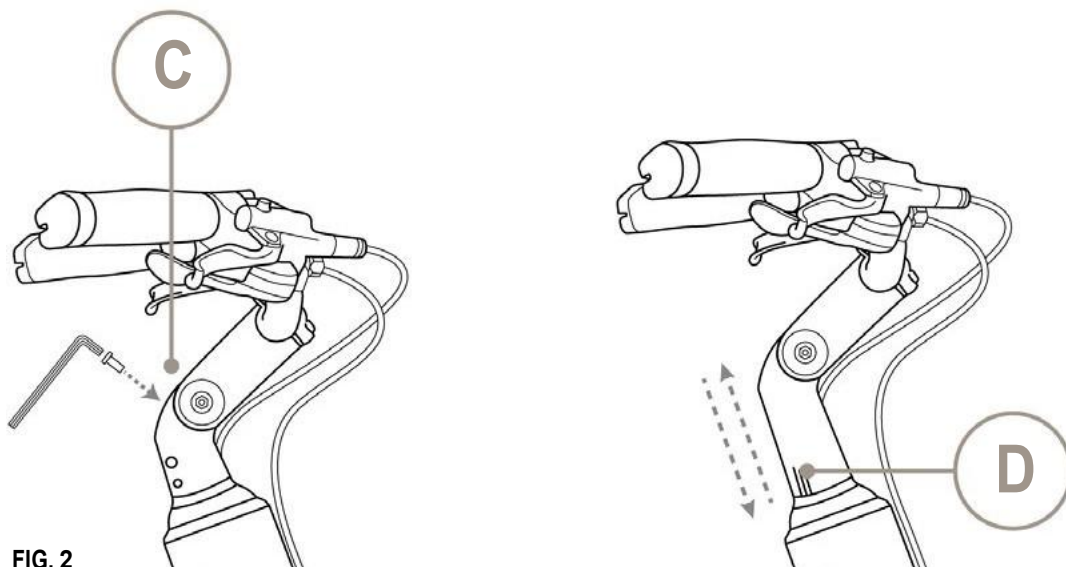


FIG. 2



#### WARNING

Check that the limit switch signal is not visible.



#### ATTENTION

#### ASSEMBLY

If you do not have the appropriate adjustment equipment or do not have the skills, contact your authorized dealer.

For perfect ergonomics, rotate the handlebars by loosening the two fixing screws (Ref. E – Fig. 3). Make sure you have tightened the screws correctly before using the pedal-assisted bicycle.



#### ATTENTION

#### ASSEMBLY

If you do not have the appropriate adjustment equipment or do not have the skills, contact your authorized dealer.

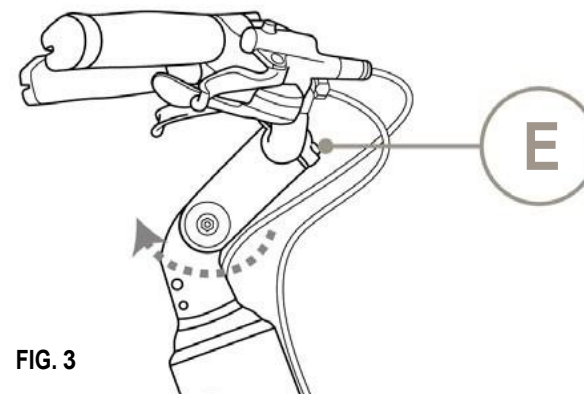


FIG. 3

### 3.3 Brake adjustment

The brake levers (Ref. F – Fig. 4) are located on the handlebars near the grips (Ref. G – Fig. 4). These systems allow you to activate the braking system. The braking action is proportional to the force applied on the lever.

The right brake lever activates the rear brake while the left brake lever activates the front brake.

To apply maximum braking power to the lever, you can make the following adjustments:

- Rotate the brake lever using the tightening screw (Ref. H - Figure 4.1) until you reach a comfortable hand position; Make sure you have tightened the screw correctly before using the pedal-assisted bicycle.

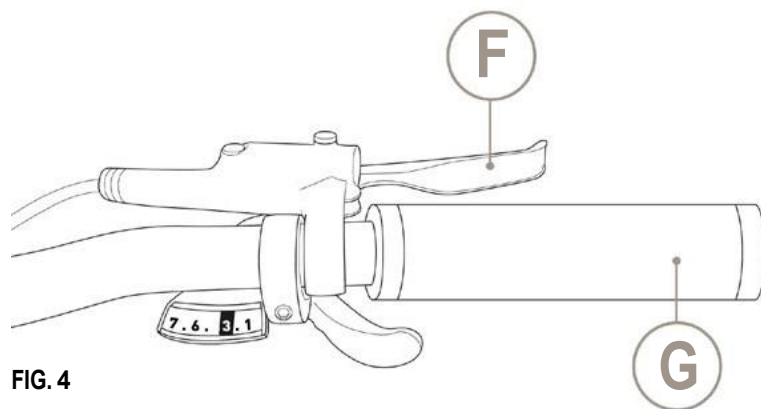


FIG. 4

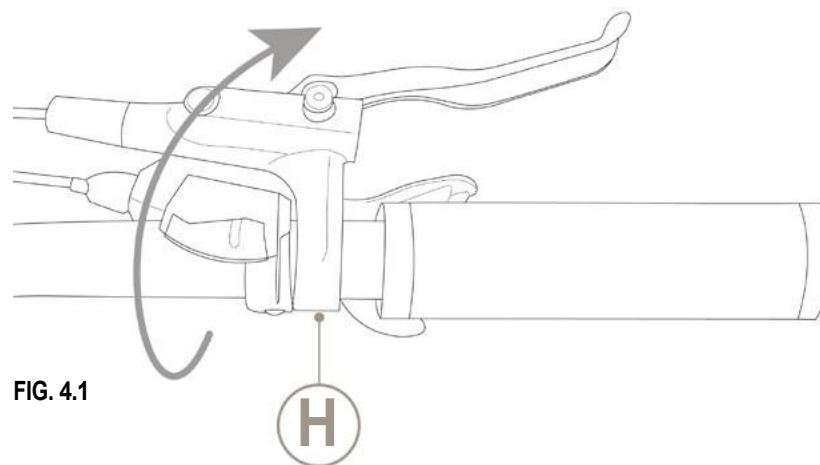


FIG. 4.1

**Excessive brake lever travel causes the brake lever to come into contact with the grip, limiting the braking action and possibly causing fingers to be crushed.**



#### ATTENTION

It is important to visually inspect the braking system before using the pedal-assisted bicycle; check that there are no damaged cables or lubricants on the braking surfaces of the brake discs. Check the operation of the brakes by braking at low speed on flat, obstacle-free ground, first with the rear brake and then with the front brake.

**If, during the preliminary checks, any defects are found and even one test is negative, DO NOT RIDE THE PEDAL-ASSISTED BICYCLE.**

**Immediately take all measures to carry out an adequate repair and, if necessary, contact the authorized dealer or an authorized workshop.**





### 3.4 Pedals assembly

**Right pedal:** it is identified by the letter “R” marked on its pin. To assemble the pedal, screw by turning the pin clockwise (Fig. 5).

**Left pedal:** it is identified by the letter “L” marked on its pin. To assemble the pedal, screw by turning the pin counterclockwise (Fig. 5).



ATTENTION

#### ASSEMBLY

To tighten the pedals correctly, you need to use a 15mm wrench.



ATTENTION

#### ASSEMBLY

If you do not have the appropriate adjustment equipment or do not have the

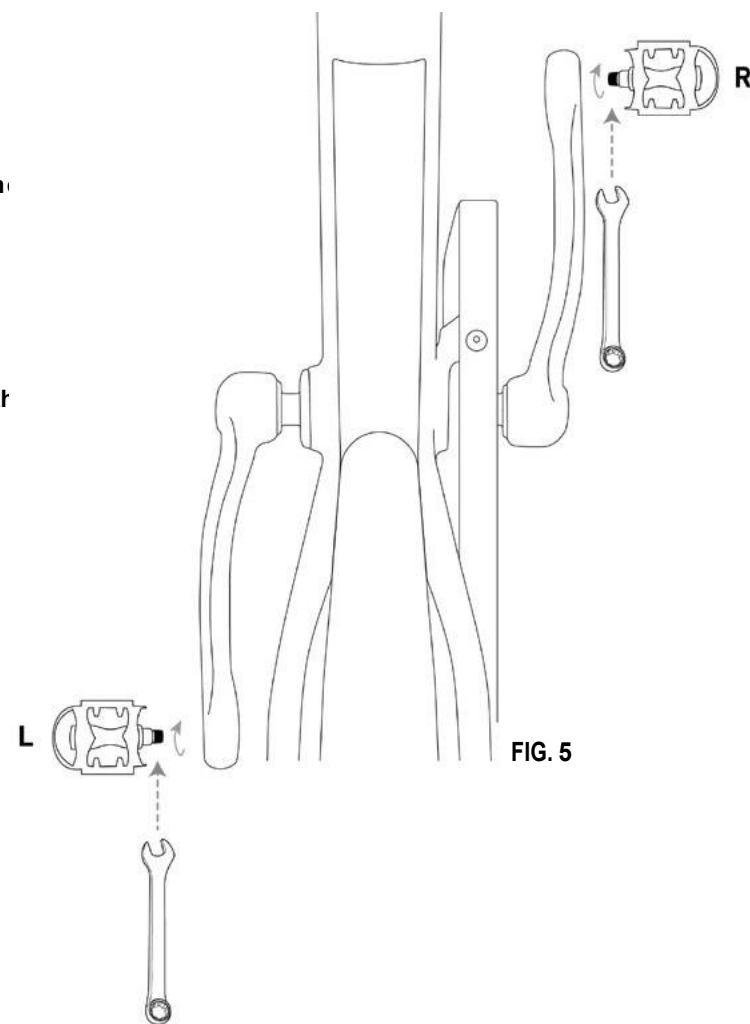


FIG. 5

### 3.5 First use of the battery

The NEFELE model pedal-assisted bicycle is equipped with an electric motor powered by a 36V lithium-ion battery. The battery pack is positioned inside the frame in the oblique tube of the vehicle. Before being used for the first time, the battery is in a dormant state (SLEEPING MODE) in order to preserve its lifespan. To start it, you must:

1. Lift the rubber cap on the charging socket, located on the left side of the frame (FIG 6);
2. Connect the battery charger supplied with the appropriate plug (FIG 7);
3. Connect the battery charger to a power outlet (230 V / 50 Hz);
4. Press the display button.

At the end of this procedure, the battery status will be active, even when the bicycle's power system is turned off.

Before going out on your bicycle for the first time, charge the battery for at least 8 hours and no more than 24 hours, using the appropriate battery charger supplied with the bicycle.

To recharge the battery and to follow the correct maintenance and storage procedure, proceed as in paragraph 6.2 and 6.3.

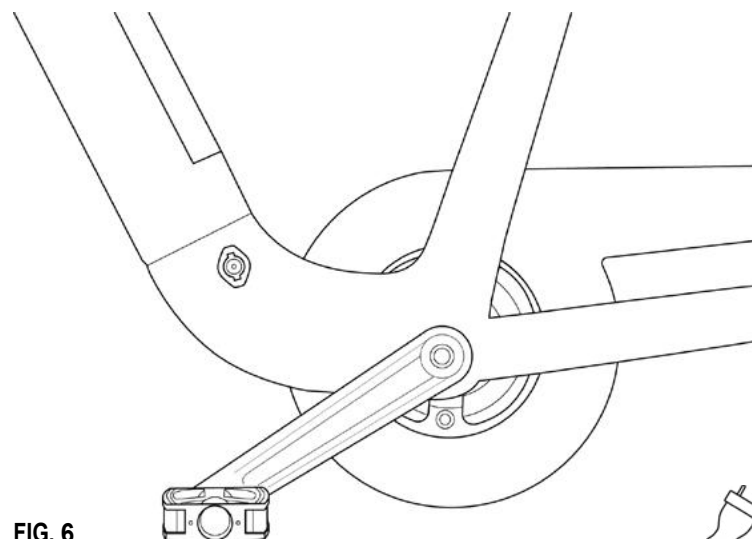


FIG. 6

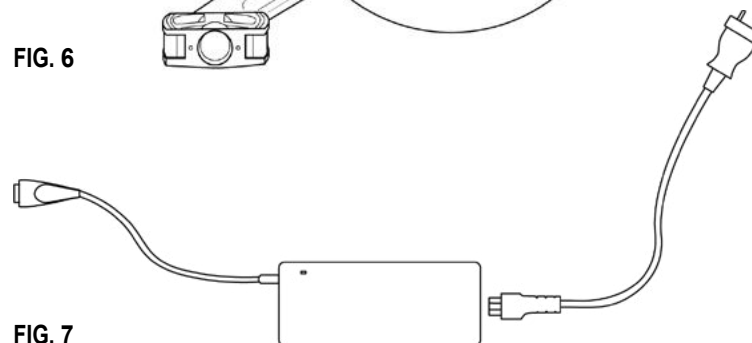


FIG. 7



ATTENTION

#### BATTERY CHARGER

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

#### BATTERY CHARGING LEVEL

The battery must not be completely discharged to preserve its life and avoid the risk of damaging it. In any case, it must be recharged at least every 2 months even if the bicycle is not used.

### 3.6 Wheels check

Check the tire pressure. Check the tread wear: there must be no cuts, cracks, foreign bodies, abnormal bulges, exposed canvas and other damage.



ATTENTION

Do not inflate tires beyond the permissible value indicated by the manufacturer on the side surface of the tires.



### 3.7 Front suspension adjustment

The pedal-assisted bicycle is equipped with a front suspension system that allows to dampen the stresses caused by the roughness of the path during the use of the vehicle.

Depending on the path and the load on the vehicle, it is possible to vary the stiffness of the same by rotating the preload knob (Ref. I - Figure 8). Rotate clockwise to stiffen the fork and vice versa.

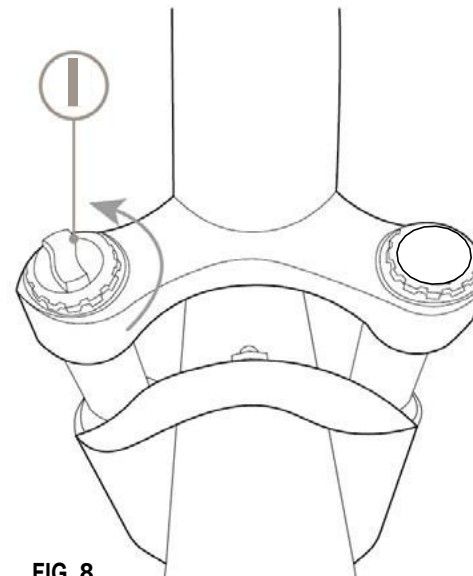


FIG. 8

## 4. DESCRIPTION OF THE BICYCLE

The pedal-assisted bicycle is designed and built to be used outdoors, on private or public roads and environments.

In particular, the components and type of pedal-assisted bicycle allow you to tackle routes with asphalt surfaces or with similar characteristics without particular roughness.



**DANGER**

### **NON CORRECT AND UNAUTHORIZED USE**

**The bicycle has been designed and manufactured for the specified use; any other use and failure to comply 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, which only intervenes when pedaling and gradually stops as the vehicle speed approaches 25 km/h, and then stops completely at that speed.

To manage the assistance system, there is a special display located on the left side of the handlebars. On the right side of the handlebars there is a control system for adjusting the gears.

## 4.1 Technical data



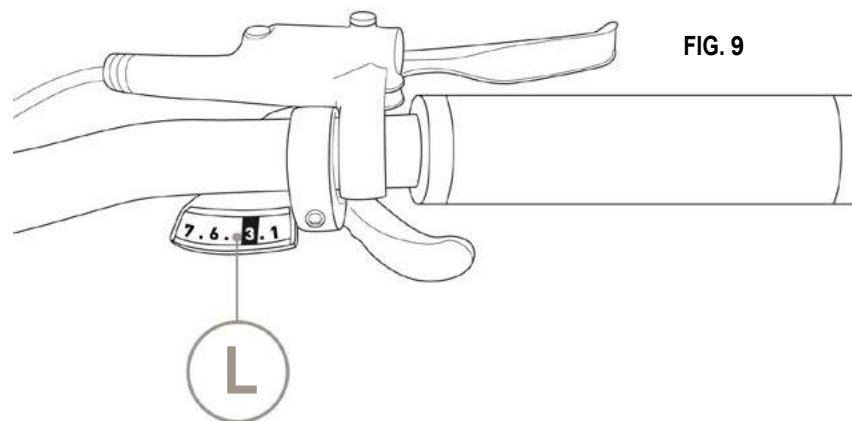
1. HANDLEBAR AND COMMANDS
2. MOTOR
3. SADDLE
4. BATTERY
5. PEDALS
6. SUSPENSION FORK
7. FRONT LIGHT
8. REAR LIGHT

<b>CODE</b>	E268/E266
<b>FRAME</b>	HYDROFORMED ALUMINUM
<b>FORK</b>	ALUMINIUM SUSPENSION
<b>CRANKSET</b>	38 TEETH
<b>GEARBOX</b>	SHIMANO ACERA M3020
<b>GEARBOX CHANGE</b>	SHIMANO M315 7 SPEED
<b>BRAKE</b>	SHIMANO MT200 HYDRAULIC
<b>DISKS</b>	SHIMANO RT10 CENTER LOCK 180 F/160 R
<b>TIRES</b>	28X1.75 / 26X1.75
<b>SADDLE</b>	SADDLES SMP
<b>PEDALS</b>	NON-SLIP POLYMERIC MATERIAL
<b>LIGHT</b>	INTEGRATED FRONT AND REAR
<b>MOTOR</b>	ETROTEK REAR 36V, 250 W, 45NM
<b>BATTERY</b>	FRONT POWER 36V, 15 AH, 540 WH
<b>MAX. ASSISTED SPEED</b>	25 KM/H
<b>DISPLAY</b>	LCD
<b>POWER LEVELS</b>	5
<b>WEIGHT</b>	28 KG



## 4.2 Speed change

The pedal-assisted bicycle has an 11-speed gearbox integrated into the rear wheel hub. The gears can be selected by pressing the levers located near the right handlebar grip. The indicator (Ref.L - Fig. 9) allows you to view the selected gear.



## 4.3 Front and rear light

To ensure visibility both during the day and at night, two lights are installed, one front (Fig. 10) and one rear (Fig. 11).

These devices are operated via the display.

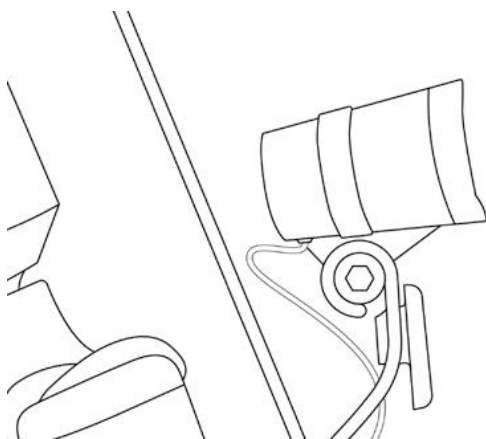


FIG. 10

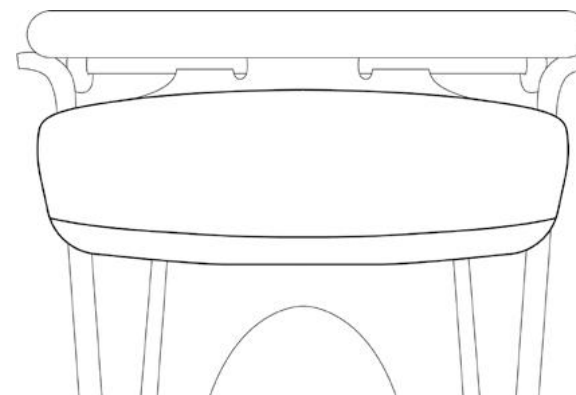


FIG. 11

## 5. DISPLAY

### 5.1 Features of the Etrotek power supply system

To use the ETROTEK propulsion system, the following conditions must be met:

- The battery must be sufficiently charged.
- The speed sensor must be correctly connected and the magnet correctly positioned.

Once a speed of 25 km/h is reached, the propulsion system automatically switches off. The system switches back on when you start pedaling again and the speed is less than 25 km/h.

The motor switches off at the same time as you stop pedaling. It restarts when you start pedaling again. The motor cooperates and harmonizes with the cyclist's effort.

### 5.2 Turning the Etrotek system on/off

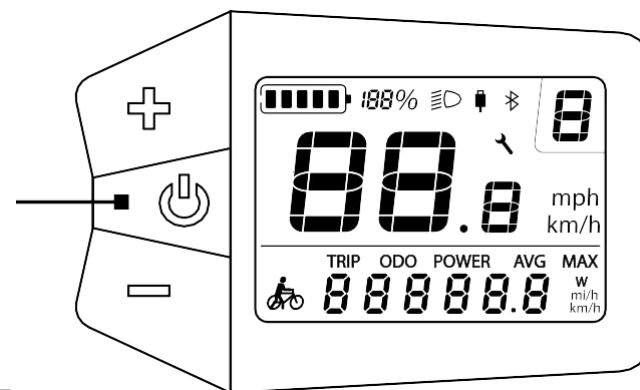
#### POWER ON:

Press and hold the ON/OFF button for about 3 seconds.

Wait a few seconds to allow the Home screen to display correctly.

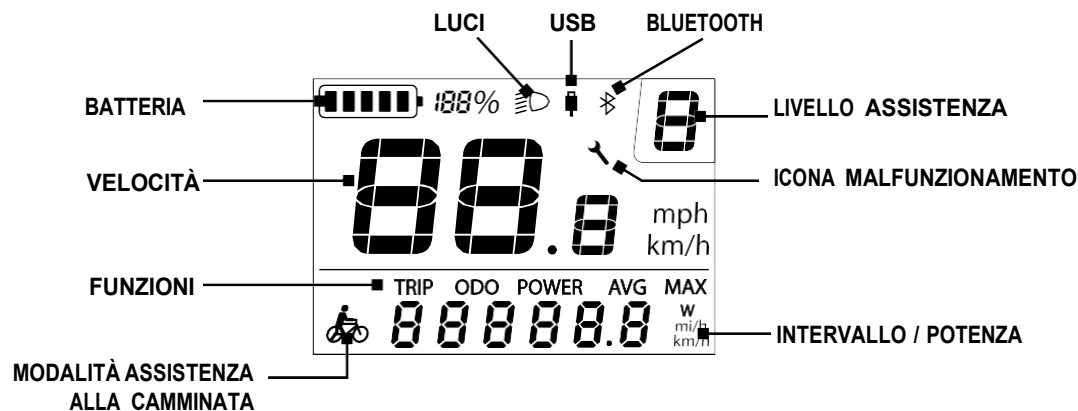
#### POWER OFF:

Press and hold the ON/OFF button for about 1 second.



#### ATTENTION

Using the display while driving can distract the cyclist and cause accidents. Always follow traffic rules.



### 5.3 Commands description

To navigate within the software there are 3 buttons that can be used with a short press, or with a press greater than 2 seconds.

BUTTON	SHORT PRESSURE (< 1 sec)	EXTENDED PRESSURE (> 2 sec)
ON/OFF	Allows you to scroll from one main screen to another on the Home screen; confirm the action when making changes.	Allows you to turn the display on or off.
+	Allows you to increase the level of assistance; move between the menu items	Allows you to turn the e-bike lights on/off.
-	Allows you to decrease the assistance level; allows you to move between menu items.	Allows you to activate the Walk Assist mode (WALK).
+ e -	/	Allows you to access the Settings menu.

### 5.4 Description of the screens

After switching on, the first Trip screen of the Home section is displayed. The Home section is made up of 6 screens.

To scroll through the screens, press the ON/OFF button.

From any screen in the Home section, you can:

- Adjust the assistance level by pressing the + and - buttons;
- Enter the walk assistance mode by holding down the - button;
- Adjust the e-bike lights by holding down the + button for 2 seconds;
- Enter the Settings section by holding down the + and - buttons simultaneously for 2 seconds.

### GENERAL COMPOSITION OF THE SCREENS

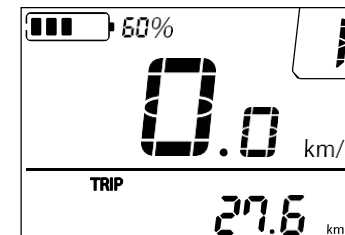
The Home section screens differ in the type of information display.

In all the Home screens, however, it is always possible to view the following information:

- Percentage of the battery charge status;
- Adjust the e-bike lights;
- Assistance level;
- Current speed of the e-bike (in km/h);

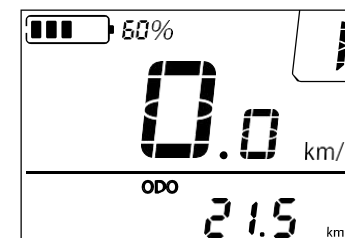
### SCREEN 1 – DISTANCE

In addition to the information listed above, this screen can display the distance traveled (in kilometers) since the last reset.



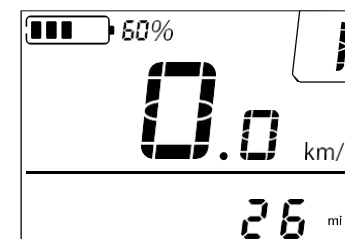
### SCREEN 2 – TOTAL DISTANCE

In this screen you can view the total distance (in kilometers) traveled by the bicycle. This value is not resettable.



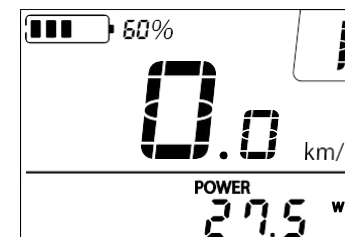
### SCREEN 3 – TRAVEL TIME

In this screen you can view the travel time expressed in hours: minutes



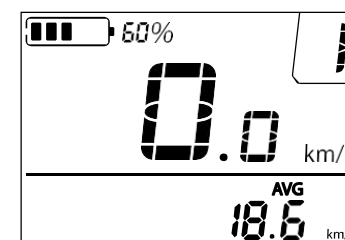
### SCREEN 4 – POWER

In this screen you can view the power supplied by the engine expressed in Watts (W).



### SCREEN 5 – AVERAGE SPEED

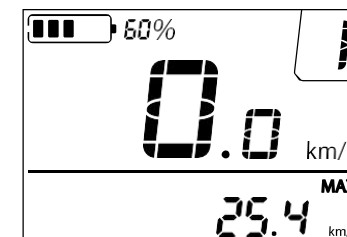
On this screen you can view the average speed expressed in kilometres (km/h).





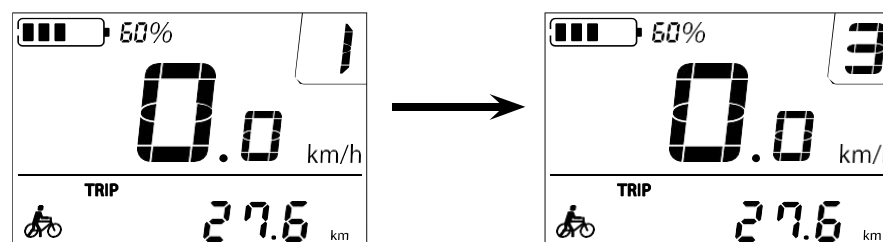
## SCREEN 6 – MAXIMUM SPEED

On the last screen you can view the maximum speed reached during the journey expressed in kilometres per hour (km/h).



## 5.5 Assistance levels

From any screen in the Home section, you can change the assistance level by pressing the + button to increase it and – to decrease it. By default, the system is preset to assistance level 1.



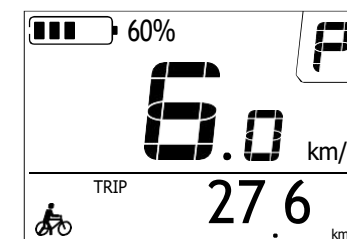
## 5.6 Walking assistance mode

The system is equipped with a walk assist function that allows the motor to be activated up to a maximum speed of 6 km/h.

To activate the walk assist function, press and hold the - button.

The motor will activate in walk assist mode and the relevant icon will appear on the display.

To deactivate the walk assist mode, release the - button.



The motor will deactivate in the following cases:

- Releasing the - button;
- Speed exceeding 6 km/h;
- Locking of the e-bike wheel.

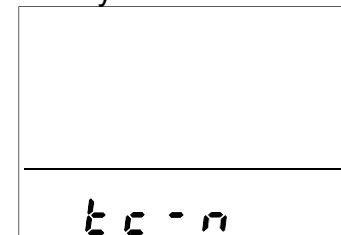
## 5.7 Settings

From any Home screen you can access the Settings menu by pressing the + and - buttons simultaneously for 2 seconds.

### RESET TRIP

The Reset Trip (TC) item allows you to reset the data relating to the distance traveled (but not to reset the data of the total distance traveled by the e-bike).

Press the + or - buttons to select the values Y (yes) or N (no). The default value is N.  
To save the desired setting and move to the next item in the Settings menu, press the ON/OFF button.

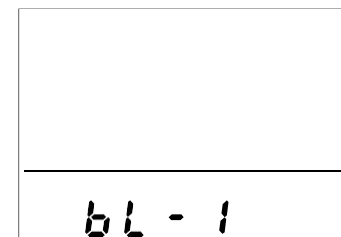


### DISPLAY LIGHTING

Setting allows you to adjust the brightness of the display.

The selectable values range from 1 to 3. By default, the brightness is set to the value 2.

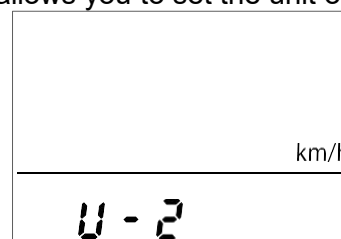
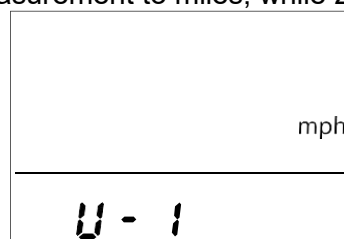
To save the desired setting and move on to the next item in the Settings menu, press the ON/OFF button.




### MEASURE UNITS

This setting allows you to choose the unit of measurement between kilometers per hour (km/h) and miles (mph).

A value of 1 allows you to set the unit of measurement to miles, while 2 allows you to set the unit of measurement to kilometers per hour..



## 5.8 Codici Di Errore

Quando il sistema rileva un errore, il codice errore e la relativa icona  vengono visualizzate sullo schermo del display. La seguente tabella elenca le possibili anomalie e i relativi codici errore:

ERROR	PROBLEM
21	The system has detected an electrical voltage anomaly.
22	The system has detected an anomaly in the speed sensor.
23	Torque meter signal not detected.
24	The system has detected a communication problem with the motor cable.
30	The system has detected a communication problem between the display and the control unit.
31	The display has shorted out.
32	The POWER button is stuck.
33	The - button is stuck.
34	The system has detected too high voltage.

## 5.9 Technical assistance

In case of error codes, problems not previously indicated or for any kind of assistance to the system (battery, engine and control unit), it is recommended to contact the authorized distributor directly.



### ATTENTION

- The manufacturer declines all responsibility for damage caused to persons or things, as well as for the defective operation of the unit in the event of:  
Improper use of the unit.
- Error in use or inexperience, imprudence or negligence with respect to the indications and instructions given in this manual.  
Use of non-original spare parts.

## 6. BATTERY

The bicycle provides pedaling assistance through an electric motor powered by the battery located in the down tube of the frame structure (Ref M - Fig.12)

It is possible to view the battery charge status directly on the display.

### 6.1 Battery removal/ Installation

To remove the battery, make sure the assistance system is turned off and proceed as follows:

1. Insert the battery lock/unlock key into the lock on the upper left side of the frame, near the handlebars, and turn the key clockwise;
2. Unhook and lift the battery;
3. Remove the battery completely, taking care not to hit the frame.

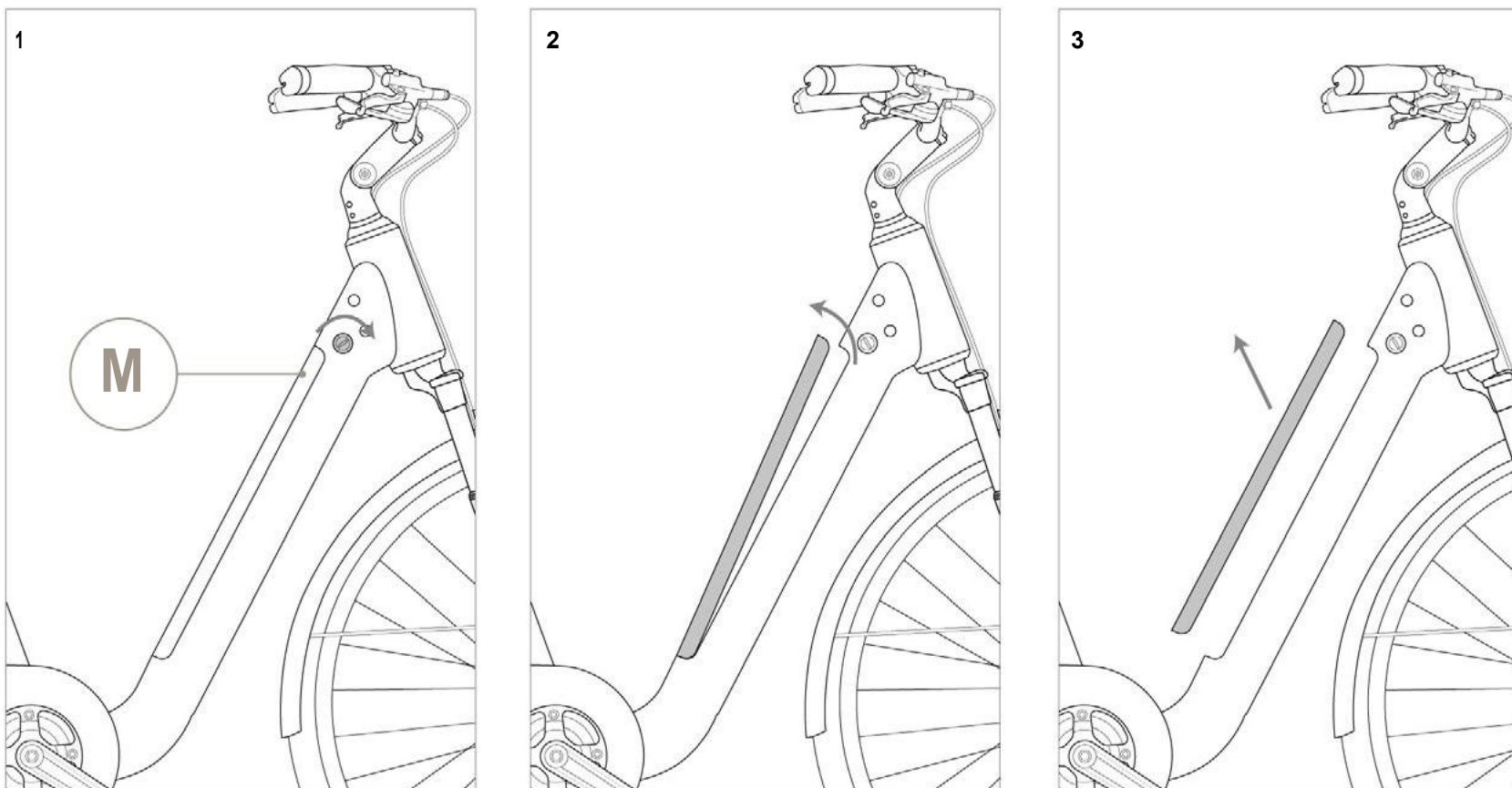


FIG. 12

To install the battery, proceed as follows (this procedure must be performed without the unlocking key, remove it if inserted):

1. Align the battery by first matching the electrical connector (Fig. 13-1);
2. Carefully insert the battery into the frame until you hear the lock click into place. At this point the battery is automatically locked.

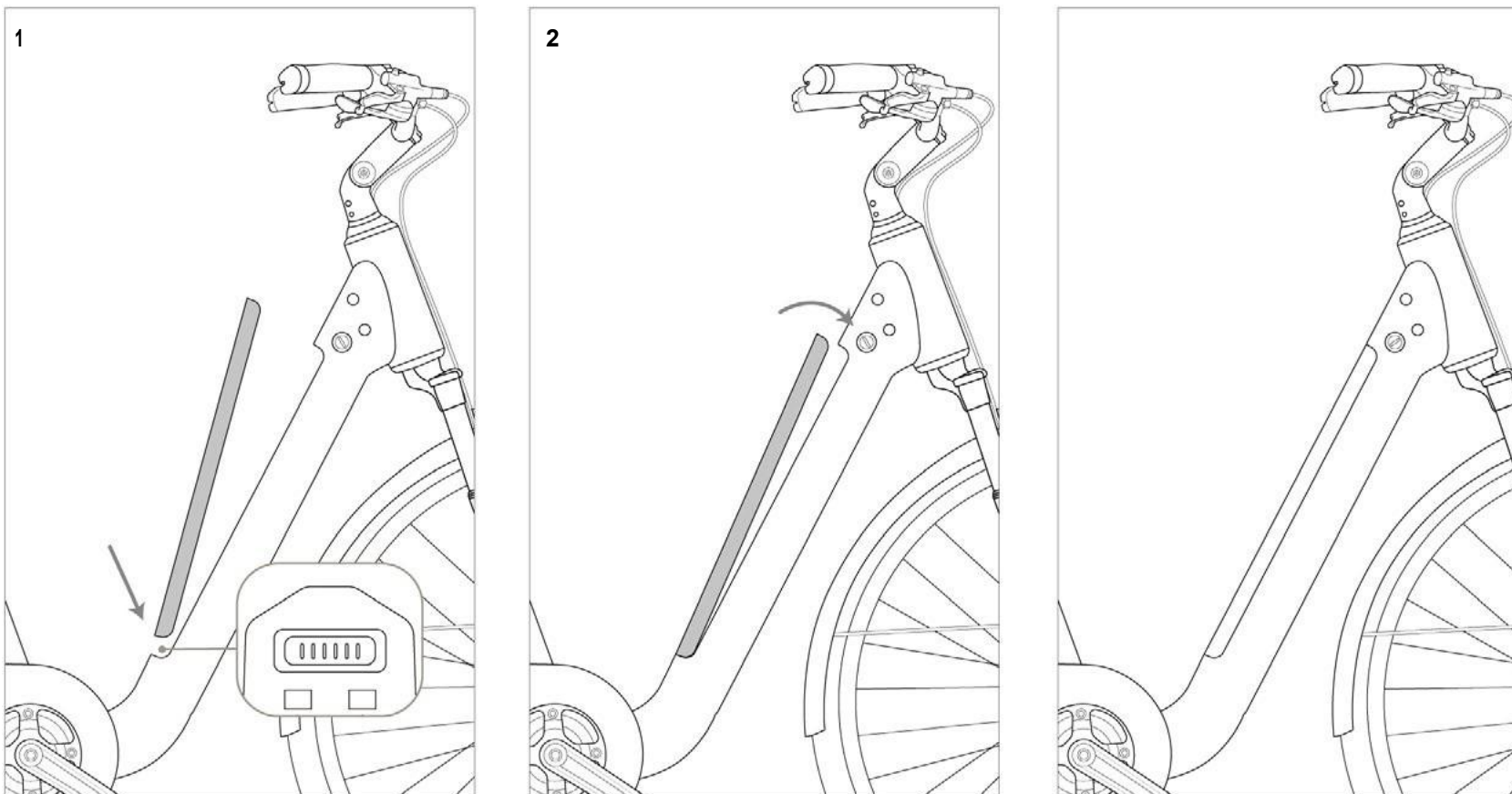


FIG. 13

## 6.2 Battery Charging

La The battery of the pedal-assisted bicycle can be charged in two way:

Charging procedure with the assembled battery:

1. Turn off the pedal-assisted bicycle assistance system using the button on the display;
2. Lift the rubber cap on the battery charging socket, located on the left side of the frame (FIG 14);
3. Connect the battery charger supplied with the appropriate plug;
4. Connect the battery charger to a power outlet (230 V / 50 Hz) and let charge for the necessary time. The average charging time varies from 4 to 6 hours;
5. Once charging is complete, first disconnect the plug from the mains and then the connector from the battery.

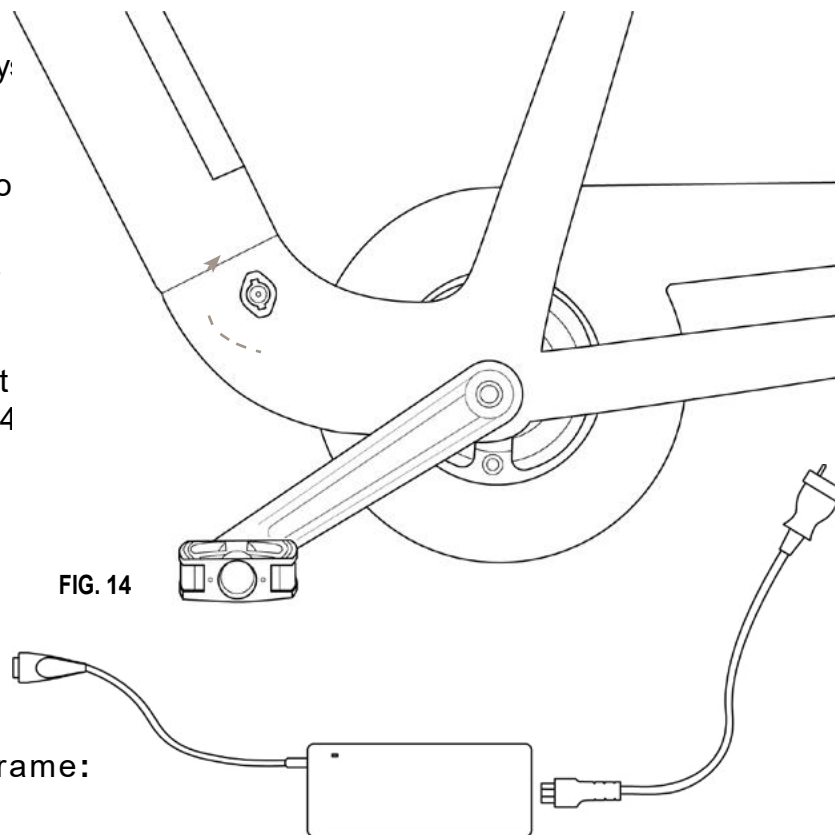


FIG. 14

Charging procedure for the battery removed from the frame:

1. Turn off the pedal-assisted bicycle assistance system using the button on the display;
2. Remove the battery following the instructions in paragraph 6.1;
3. Connect the battery charger supplied with the appropriate plug (FIG 15);
4. Connect the battery charger to a power outlet (230 V / 50 Hz) and let it recharge for the necessary time. The average charging time varies from 4 to 6 hours;
5. Once charging is complete, first disconnect the plug from the mains and then the connector from the battery.

FIG. 15





ATTENTION

#### **Battery Charger**

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

#### **Battery Charging level**

**The battery must not be completely discharged to preserve its life and avoid the risk of damaging it.**

**In any case, it must be recharged at least every 2 months even if the bicycle is not used.**



DANGER

#### **PRECAUTIONS TO FOLLOW FOR CORRECT CHARGING AND TO MAXIMIZE THE LIFE OF THE BATTERY**

**Always fully recharge the battery;**

- **If the battery charge level drops to 10% or below, fully recharge the battery within 12 hours.**

**If the battery is left to discharge, it will be damaged. Replacement of cells due to poor maintenance is not covered by the warranty;**

- **Use only the original power supply supplied;**
- **Do not leave the battery charging for more than 24 hours;**
- **Always recharge in a ventilated area;**
- **Do not recharge the battery in excessively hot environments;**
- **Do not recharge the battery near flammable liquids;**
- **Do not cover the battery in any way during charging;**
- **If the battery emits a bad smell, immediately unplug it from the power supply and ventilate the room. Do not touch the battery.**

### 6.3 Battery storage

When the battery is not used for long periods, recharge it for 2 hours every 2 months and store it in a ventilated place with a temperature between 0°C and 25°C.

If the battery is left to discharge, it will be damaged.

Replacement of cells due to poor maintenance is not covered by the warranty.

In order to prevent the battery from completely discharging and being damaged, it is recommended to return the battery to the dormant state (SLEEPING MODE) when the bicycle is not used for long periods.

To start the battery dormant state:

1. Turn off the pedal-assisted bicycle assistance system using the button on the display;
2. Remove the battery following the instructions in paragraph 6.1;
3. Press and hold the button on the battery pack (FIG 16) for at least 10 seconds;
4. Store the battery in a ventilated place with a temperature between 0°C and 25°C.

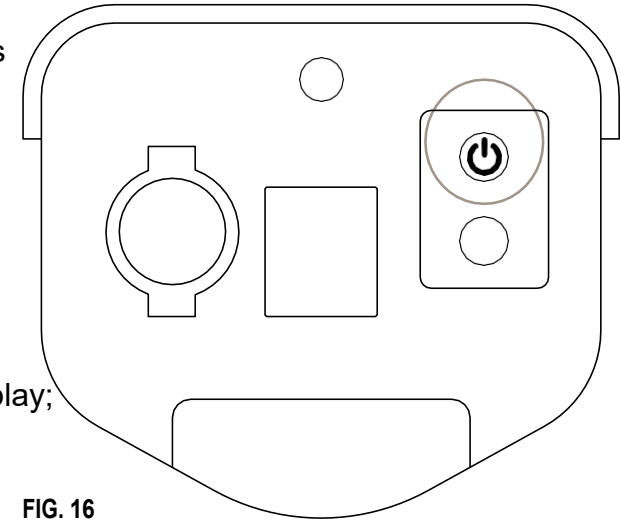


FIG. 16

To wake up the battery, simply connect it to the power supply using the appropriate battery charger.



## Problem solutions

PROBLEM	CAUSE/SOLUTION
The system does not turn on	Check if the battery is charged
Assistance does not activate	Check if level charging of the battery is enough



ATTENTION

### PROBLEM SOLVING

If the assistance system does not activate even though the battery is charged, contact your authorized dealer

## 7. CONDITIONS OF USE AND PROPER ENVIRONMENTS

### 7.1 Proper usage

The pedal-assisted bicycle is designed and built to be used outdoors, on private or public roads and environments.

In particular, the components and the type of pedal-assisted bicycle allow you to tackle routes with asphalt surfaces, or with similar characteristics, without particular roughness.

Any modification to 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 intended, do not go to the destination attributed by the manufacturer, and therefore, the same cannot assume any responsibility for any resulting damages.

### 7.2 Environment of use

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

- Maximum permissible temperature: +40 °C;
- Minimum permissible temperature: 0 °C;
- Maximum permissible humidity: 70%;
- Charging temperature: 0 ÷ +45°C.

The environment of use may have an asphalt surface or one 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 path and the controls of the pedal-assisted bicycle (recommended from 300 to 500 lux). The pedal-assisted bicycle is equipped with a front light with white light and a rear light with red light.



ATTENTION

### Forbidden environments of use

The pedal-assisted bicycle must not be used:

- In areas subject to risk of fire or explosion;
- In environments with a corrosive and/or chemically active atmosphere;
- In poorly lit environments;
- On excessively rough terrain, given the characteristics of the bicycle (frame, wheels, etc.);
- In enclosed spaces, if they do not allow safe use;
- In extremely dark environments.

### 7.3 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



PERICOLO

#### FORBIDDEN OPERATIONS

##### STRICTLY PROHIBITED

- Using the pedal-assisted bicycle for purposes other than those for which it was designed, i.e. passenger recreation;
- Riding the pedal-assisted bicycle in areas where there is a risk of explosions;
- Riding the pedal-assisted bicycle in adverse weather conditions (heavy rain, hail, snow, strong winds, etc.)
- Riding the pedal-assisted bicycle under the influence of alcohol or drugs;
- Riding the pedal-assisted bicycle if your weight exceeds the permitted weight;
- Charging the battery in an environment that is too hot or not sufficiently ventilated;
- Covering the battery while charging;
- Smoking or using naked flames near the charging area;
- Ride or stop on slopes (greater than 10%) or excessively uneven surfaces (with holes, depressions, obstacles, etc.)
- Perform any maintenance with the battery connected;
- Use non-original spare parts;
- Insert limbs or fingers between the moving parts of the bicycle;
- Use the pedal-assisted bicycle on unpaved or similar terrain;

## 8. LIFTING AND TRANSPORT

### 8.1 Lifting

The weight of the pedal-assisted bicycle model NEFELE is such that it can be lifted and transported by one person, also due to its overall dimensions. The optimal solution for carrying out the movement is to grab a handlebar grip and the rear part of the saddle.



DANGER

#### CRUSHING AND IMPACT

- Extreme caution must be used when lifting to avoid injury to people and property.
- This operation must be performed by strong people
- The manufacturer is not liable for breakages due to lifting and/or transporting the pedal-assisted bicycle after delivery.



## 8.2 Transportation

To ensure the safety of transport in vans, it is necessary to prevent the pedal-assisted bicycle from moving. This is achieved by securing it with straps or anchoring cables in good condition. In this regard, the attachment devices must be installed in such a way as not to damage the frame and other parts of the bicycle.



**DANGER**

### **INJURY RISK**

**ALWAYS** make sure that the frame and handlebar adjustment screws are properly tightened before each use of the bicycle. Failure to do so could result in injury, even serious injury!

## 9. USE OF THE BICYCLE

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

- It can only be used by adults and experienced 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;
  - Do not ask the pedal-assisted bicycle to perform more than it was designed for. Use the bicycle only in accordance with the methods 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. If necessary, have it checked by authorised personnel;
- Before setting off, carry out all the checks reported in the previous chapter and always remain concentrated while driving, for your own safety and that of others.



**PERICOLO**

### **INJURY RISK**

- Check that all controls are working perfectly;
- Always respect the highway code;
- Use appropriate protective devices (helmet, etc.)



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 and obstacles of any kind. The driver must adapt the speed of the pedal-assisted bicycle to the conditions of the route and the presence of other vehicles or pedestrians. Especially when tackling curves, a moderate speed must be maintained (the smaller the radius of the curve, the lower the speed must be). 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 riding the pedal-assisted bicycle, before proceeding at high speed. If you do not want to use the motor, simply remove the battery or set the lowest level of assistance.

## 9.1 Bicycle parking

The bicycle is equipped with a stand for lateral support, therefore, before leaving the bicycle, check that the stand is fully extended and resting on stable ground.

The bicycle must be parked in designated parking areas and, in any case, without obstructing passageways, emergency exits, electrical panels and fire stations.

## 10. MAINTENANCE



PERICOLO

### INJURY RISK

During all maintenance work, follow appropriate safety measures.

All maintenance operations must be carried out with the battery disconnected from the pedal-assisted bicycle and the battery charger; the bicycle must be supported in a stable manner using appropriate support elements.

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

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

### 10.1 Maintenance and daily check

#### 10.1.1 Checking of plates and pictograms

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



### 10.1.2 *Wheels check*

Using the special inflation valve on the rims, check the inflation pressure of the tires using a compressor and a gun with a pressure gauge, or a pump.

Check the condition of the tread, the rim and the attachment of the rims to the hubs. If you need to replace the tires, contact an authorized dealer or a qualified tire dealer.



**Do not inflate the tires beyond the permissible value reported by the manufacturer on the side surface of the same.**

#### ATTENTION

### 10.1.3 *Braking system check*

I freni devono essere regolati in modo da assicurare una frenata efficace e, allo stesso tempo, le leve di comando devono avere una corsa adeguata per poter modulare la frenata: in altre parole i freni non devono essere né troppo lenti né troppo tirati.



**Brake adjustments must be carried out by authorised personnel only.**

#### ATTENTION

## 10.2 **Maintenance and weekly checks**

### 10.2.1 *Washing and cleaning*

Cleaning the pedal-assisted bicycle is not only a matter of decorum, but also allows you to immediately detect any defects in the bicycle. In order not to damage or compromise the functioning 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 engine and the battery, for which we recommend washing with a sponge.

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

### 10.2.2 *Lubrication and chain tension control*

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

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



**DANGER**

#### **PROPER CHAIN LUBRICATION**

**Be extremely careful not to get lubricant on the brakes or tires of your bicycle. This can lead to serious injury!**

### 10.2.3 Checking the frame and bolts

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

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

## 10.3 Maintenance and monthly checks

### 10.3.1 Electrical circuits and components Checking

Check the condition and fastening of the battery cables: the sheaths of the electric cables must be in good condition and the terminals must be well tightened, not corroded and, if necessary, covered with specific protective and insulating grease.

Check that all the bulbs and warning lights are correctly turned on.

### 10.3.2 Checking and adjusting the rear derailleur

Adjusting the lower and upper gear limit switches: Turn the two screws (Ref. N,O - Fig. 17) so that the chain does not come out.

The chain shifter must be in line with both the largest and smallest gears. (Fig. 18)

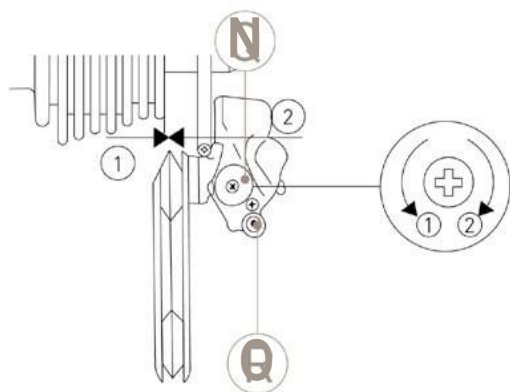


FIG. 17

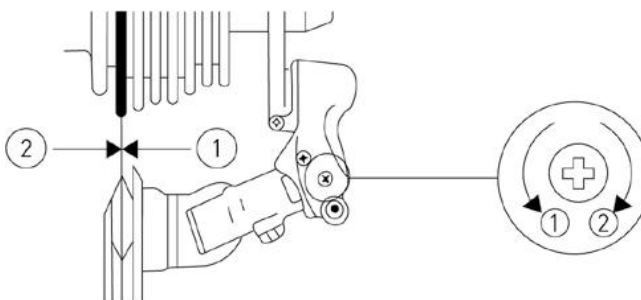


FIG. 18

Adjust the cable tension by acting on the appropriate control to ensure the immediate response of the rear derailleur to the command of the shifter located on the handlebar. (Fig. 19)

To prevent damage to the gearbox, it is recommended not to exert too much pressure on the pedals while changing gear.

Therefore, avoid changing gear when making an effort or riding on a slope.

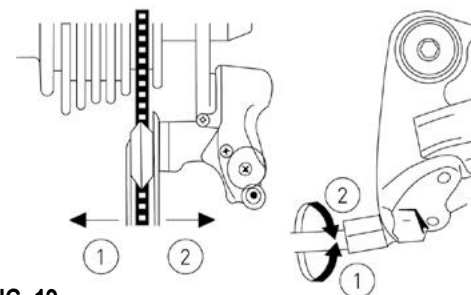


FIG. 19

## 11. WAREHOUSE STORAGE

If the pedal-assisted bicycle is to be stored and kept for long periods of inactivity, the following operations must be carried out:

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

## 12. DISPOSAL OF COMPONENTS AND MATERIALS



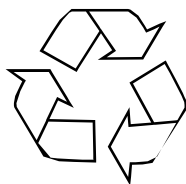
ATTENTION

### DISPOSAL OF MATERIALS

The disposal of packaging, waste and vacuumed dust, replaced parts and/or the pedal-assisted bicycle as a whole at the end of its expected life must be carried out in an environmentally friendly manner, avoiding polluting the soil, water and air and in any case respecting the national and local legislation in force on the matter.

Indications for waste treatment:

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



Divide the materials according to their nature, appointing specialized companies authorized to dispose of them, in compliance with the provisions of the law.



### 13. WARRANTY RULES

MBM S.r.l. Unipersonale guarantees that its bicycles are free from any manufacturing or workmanship defects.

This warranty covers the repair or replacement of any part recognized as defective, in compliance with the following conditions.

#### TERMS AND CONDITIONS

- Warranty period: the pedal-assisted bicycle is guaranteed for 24 months on the mechanical and electrical parts, except for the batteries and all components subject to wear. The batteries are covered by a conditional warranty for 24 months and limited to correct 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 25% coverage;
- If the battery has been left to discharge below the permitted level, the manufacturer is not liable for any damage.
- In order to make this warranty effective, you must fill out the online form which can be accessed via QR CODE or by connecting directly to the website [warranty.mbmbike.it](http://warranty.mbmbike.it) no later than 15 days from the date of purchase of the bicycle. The serial number and the photograph of the proof of purchase from the authorized dealer will be required. The serial number is printed on the label located in the battery sled and on the battery itself.
- Claims must be made through an official dealer by presenting the original tax document (receipt or invoice) and a printout of the confirmation of warranty activation that you will receive by email after completing the online form;
- The warranty includes the free replacement of any defective or prematurely worn parts provided that all the requirements have been respected and there is no evidence of improper use of the bicycle. The manufacturer's obligations are limited to the replacement of defective parts;
- Finally, our Technical Office will decide whether or not the defective part or bicycle falls within the conditions of this warranty;
- This warranty does not in any way cover the replacement of parts worn out by normal use of the bicycle;
- This warranty does not apply in any case to faults or damage caused by improper use of the bicycle, use of the bicycle for sports competitions, the application of non-original accessories, or improper maintenance interventions.

ACTIVATE YOUR WARRANTY HERE



QR CODE





## EXCLUSIONS

Normal wear and tear on parts subject to it, such as tires, chains, brakes, cables and sprockets in situations where there are no defects in materials.

- Bicycles serviced by an unauthorized MBM dealer;
- Modifications from the original packaging;
- Use of the bicycle for abnormal activities, such as racing and/or commercial activities, or for purposes other than those for which the bicycle was designed;
- Damage caused by failure to follow the owner's manual;
- Damage to paint and decals as a result of exposing the bicycle to or using it in severe conditions and climates;
- Labor costs for replacement parts;
- Transportation charges.

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

M.B.M. S.r.l. Unipersonale does not assume responsibility for damage to property or persons due to improper use of the vehicle.

## 14. COMPLIANCE

Hybrid bikes with a maximum support speed of 25km/h comply with the requirements of:

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

These bikes also comply with the following non-harmonised standards:

- Electric bikes: EN 15194

### Disclaimer

It is strongly recommended that you do not remove or replace any original equipment or modify the bike in any way that could change its design and/or function. Such modifications could seriously damage the handling, stability and other aspects of the bike, making it unsafe. Removing or modifying parts, or using non-original equipment as spare parts, may cause the bike to no longer comply with applicable standards and laws. To ensure safety, quality and reliability, use only original parts or MBM authorised spare parts for repair and replacement.



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