

RHEA



USER MANUAL

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1. PREFACE

Generalities

This manual is an integral and essential part of the pedal-assisted bicycle models and RHEA 24" UNISEX

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 pedal-assisted bicycles, if they are used incorrectly with respect to the indicated prescriptions.

In view of continuous technological development, the manufacturer reserves the right to modify the components, including the frame without notice, without this manual being automatically updated.

1.2 Assistance

For any problems or requests 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 the safety messages in this manual, the following graphic signal symbols will be used. They have the function of attracting the reader / user's attention for the correct and safe use of the pedal-assisted bicycle.



ATTENTION

It highlights the rules of conduct to be followed in order to avoid damage to the pedal-assisted bicycle and/or the onset 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.



ATTENZIONE

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 provisions 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.
- Carefully maintain the pedal-assisted bicycle 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

Compliance with the operating instructions and safety regulations 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 or modify its characteristics, the manufacturer will be held relieved of any liability relating to the safety of people and the defective functioning of the pedal-assisted bicycle.

**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 the authorized dealer.

For any data not included or not deducible from this manual, we recommend that you consult the authorised dealer directly.

2.3 Users warnings

1. It is forbidden to carry a passenger.
2. It can only be used by adults and experienced children.
3. Do not take alcohol or drugs before riding the pedal-assisted bicycle.
4. These pedal-assisted bicycle models are designed and built to be used outdoors, on private and public roads and environments.
5. Do not ask the pedal-assisted bicycle to perform more than it was designed for.
6. Never ride the pedal-assisted bicycle with disassembled parts.
7. Avoid uneven surfaces and obstacles.
8. Ride with both hands on the handlebars.
9. Replace worn and/or damaged parts, 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 M.B.M. S.r.l.

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

RIPEARS

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

2.6 Unpacking and setting up

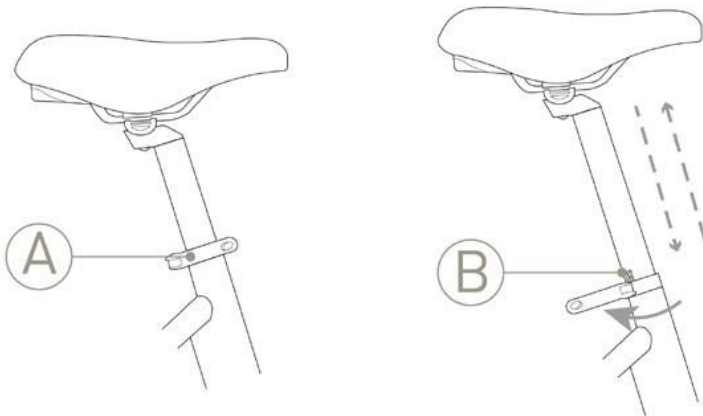
The pedal-assisted bicycle is delivered fully assembled and functioning.

2.6.1 Regolazione sella 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 saddle height by operating the quick release mechanism (Ref. A - Figure 1).

Make sure the mechanism is tightened before testing the seat and using the vehicle. Do not raise the saddle beyond the limit signal located on the tube (Ref. B - Figure 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.



DANGER

ASSEMBLY

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

FIG. 1



2.6.2 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 protective rubber cap and loosen the screw, 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. C - Figure 2). Once the desired height has been adjusted, tighten the fixing screw.

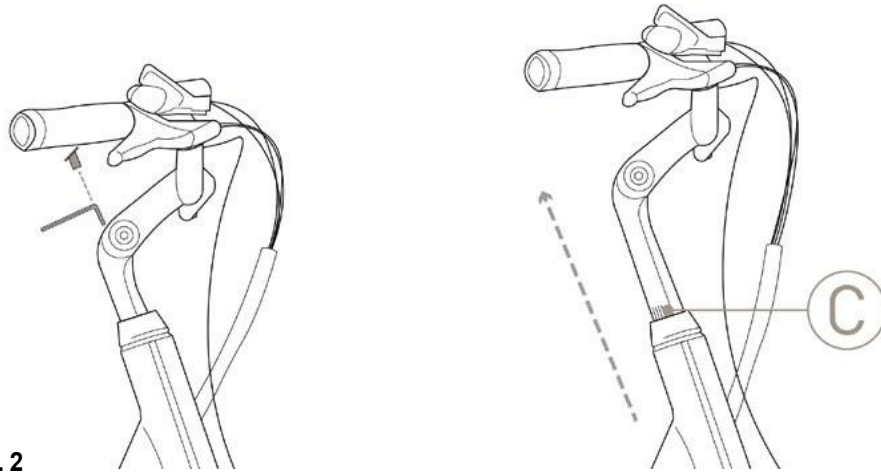


FIG. 2



IMPORTANT WARNING: Check that the minimum insertion mark (C) is not visible.

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

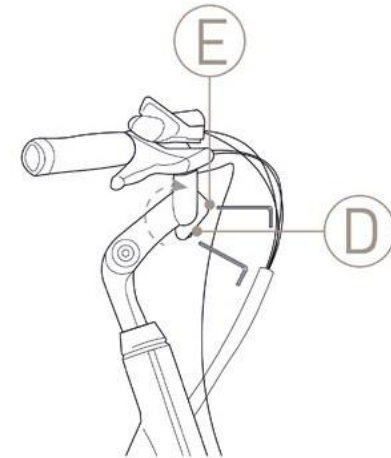


FIG. 3



ATTENTION

ASSEMBLY

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



2.6.3 Pedals assembly

Right Pedal: Identified by the letter R marked on its pin. To assemble the pedal, screw by turning the pin clockwise. (Figure 4)

Left Pedal: Identified by the letter L marked on its pin. To assemble the pedal, screw by turning the pin counterclockwise. (Figure 4)

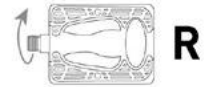


ATTENTION

ASSEMBLY

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

L
FIG. 4



3. DESCRIPTION OF THE BICYCLE

3.1 General description

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 control located next to the left grip, on the handlebars. On the right side of the handlebars there is a control system for adjusting the gears.



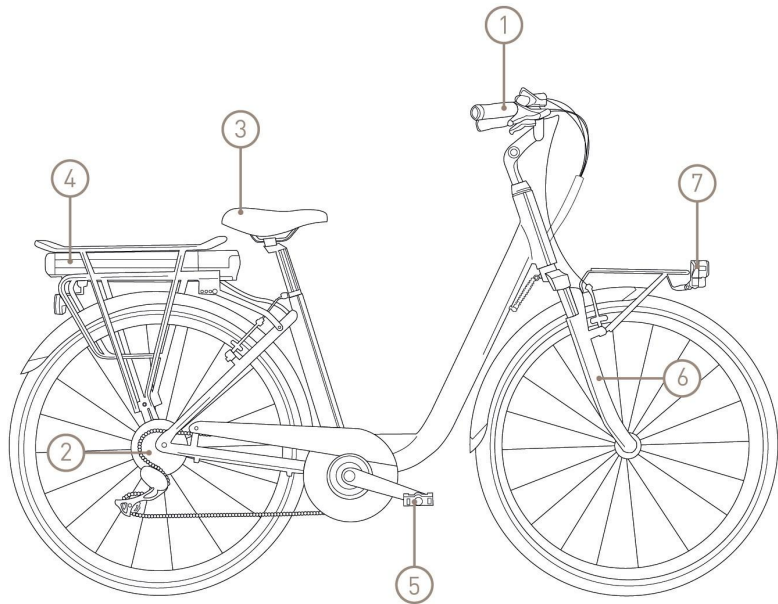
INCORRECT AND UNINTENDED USE

The bicycle has been designed and manufactured for the specified use;
a different use and the non-compliance with the technical parameters set by the Manufacturer,
may constitute a dangerous condition for the 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 control located next to the left grip, on the handlebars. On the right side of the handlebars there is a control system for adjusting the gears.

3.2 Technical data



- 1. HANDLEBAR AND COMMANS
- 2. MOTOR
- 3. SADDLE
- 4. BATTERY
- 5. PEDALS
- 6. FORK
- 7. FRONT LIGHT

CODE	E814D
FRAME	ALLUMINIUM
FORK	SELF-ADJUSTMENT SHOCK ASSORBES
CRANKSET	42 TEETH
GEARBOX	SHIMANO TY300
GAERBOX CHANGE	SHIMANO TX50 7 SPEED
BRAKES	V-BRAKE
TIRES	24x1.75
SADDLE	SADDLE BASSANO PROZONE
PEDALS	NON-SLIP POLIMERIC MATERIAL
LIGHT	AUSILIARY INTERNAL BATTERIES
MOTOR	ON THE REAR HUB
BATTERY	ON THE RACK
MAX. ASSISTED SPEED	25 KM/H
DISPLAY	LED
POWER LEVELS	5 LEVELS
WEIGHT	25 KG



3.3 Brakes levers

The brake levers (Ref. F - Figure 5) are located on the handlebars of the pedal-assisted bicycle, near the grips (Ref. G - Figure 5). These systems allow the braking system to be activated by controlling the movement of the pads until they come into contact with the wheel rim. The pads, sliding on special guides made in the profile of the rim, generate friction necessary to stop the motion of the bicycle in proportion to the force applied to the lever. The right brake lever activates the rear brake fixed to the frame while the left brake lever activates the front brake fixed to the fork.

3.4 Speed change

The pedal-assisted bicycle has a 7-speed gearbox, with the sprockets positioned on the rear wheel hub, selectable using the opposing levers, located at the base of the right grip. The indicator (Ref. H - Figure 5) present at the top of the handlebar allows you to view the selected gear.

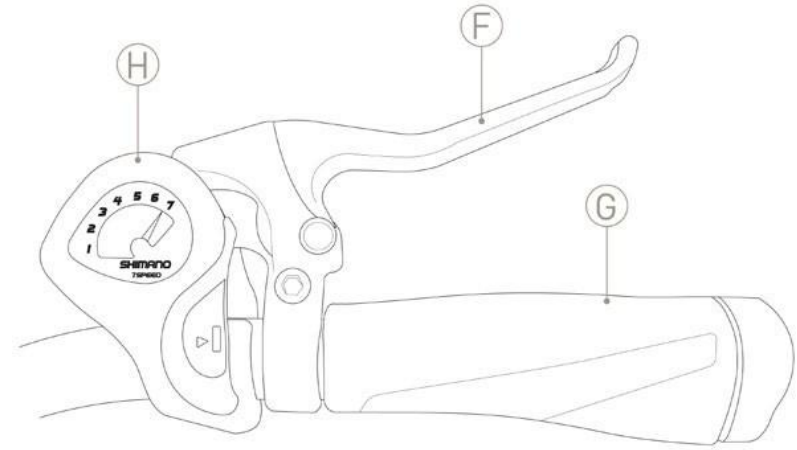


FIG. 5

3.5 Assistance system management

3.5.1 Commands

To manage the assistance system there is a controller on the left side of the handlebar. This device allows you to vary the assistance level of the system and the battery status.

3.5.2 Assistance levels

To find out the exact intensity of assistance, based on the selected value see below.

LEVEL 1 – NOT-ASSISTED

LEVEL 2 - ASSISTED 25%

Recommended route: plain/hilly - medium-long distances

LEVEL 3 - ASSISTED 50%

Recommended route: hilly/medium climb - medium distances

LEVEL 4 - ASSISTED 75%

Recommended route: uphill - medium-short distances

LEVEL 5 - ASSISTED 100%

Recommended route : challenging climb - short distance

3.6 Assistance activation

The assistance system is controlled via the display on the handlebar, near the left grip. In particular, the assistance is activated or deactivated via the “ON/OFF” button (Ref. I - Figure 6). Once the system is activated, the management display itself lights up (Figure 6), through which it is possible to see the activity status of the vehicle. The engine power depends on the force applied to the pedals, according to a multiplication factor based on the assistance level selected. The assistance decreases linearly until reaching 25 km/h. Once this speed is exceeded, the assistance is automatically deactivated.

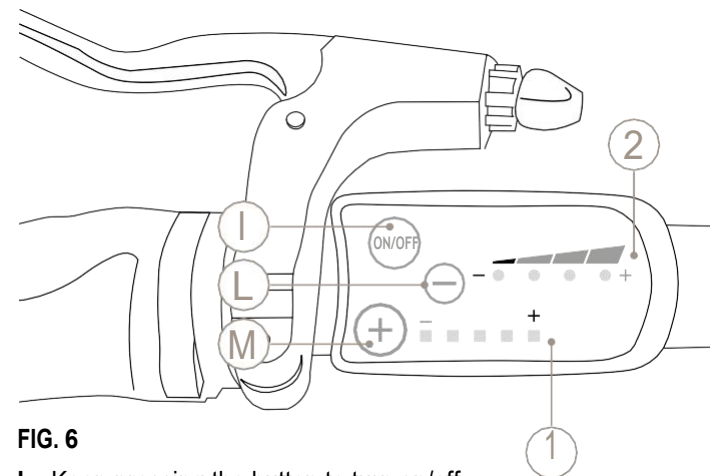


FIG. 6

- I** – Keep pressing the button to turn on/off
- L** – This button put the assistance level down
- M** – To increase the assistance level

Display showing:
 1- Assistance level
 2- Battery status

3.7 Error codes

When the system detects an error, the display, through LED lights, communicates the problem. The following table lists the possible anomalies:

ERROR	PROBLEM
ASSISTANCE LEVEL 1 – FLASHING LED	The system has detected an electrical voltage fault
ASSISTANCE LEVEL 2 – FLASHING LED	The system has detected an accelerator fault.
ASSISTANCE LEVEL 1 E 2 – FLASHING LED	The system has detected a motor phase loss.
ASSISTANCE LEVEL 3 – FLASHING LED	The system has detected a communication problem with the motor cable.
ASSISTANCE LEVEL1 E 3 – FLASHING LED	The system has detected a brake fault.
ASSISTANCE LEVEL- FLASHING LED	The system has detected a communication problem.
ALL LEDS FLASH SIMULTANEOUSLY	The ON/OFF button is stuck.
ALL LEDS FLASH ALTERNATELY	The system encountered a registry error

3.8 Walking assistance mode

The pedal-assisted bicycle is equipped with a walking assistance function. This function allows you to move the bicycle more easily during manual movement, up to a maximum speed of 6 km/h. Do not use this function when riding the bicycle.

To activate the above-mentioned mode, turn on the assistance system using the “ON/OFF” button. With the system on, press and hold the + button (Ref. N - Figure 6.1). Once the + button is released, the walking assistance is automatically deactivated.

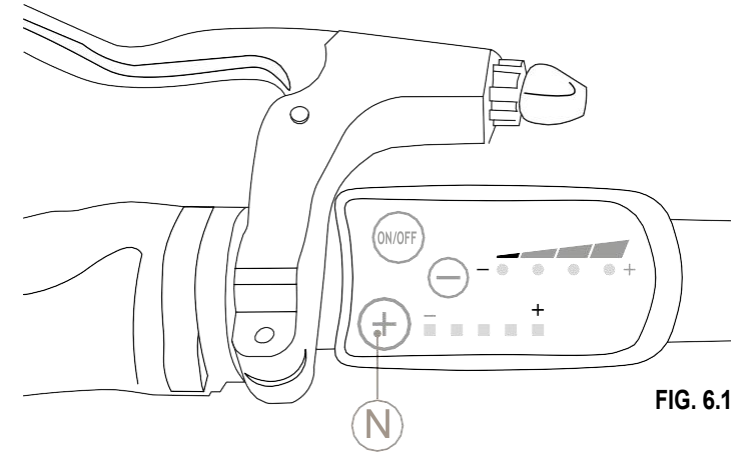


FIG. 6.1

4 Battery

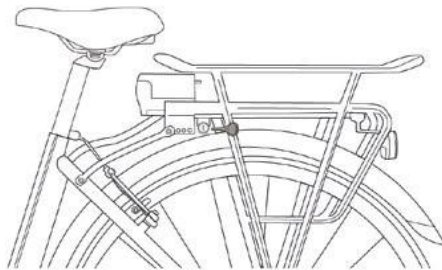
The pedal-assisted bicycle assistance system, to work, needs the presence of the power battery. Specifically, the battery is removable, so it is possible to remove it for maintenance operations or when you want to store the vehicle.

4.1.1 Battery removal/ installation

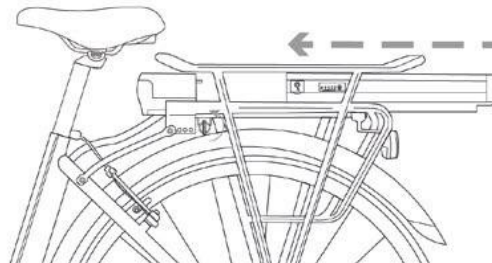
To insert the battery, proceed as follows:

1. Insert the battery release key into the lock on the front left side of the luggage rack and turn it counterclockwise (Ref. 1- 2- Figure 7);
2. Insert the battery, making sure to align the guide in the housing with the one in the lower part of the battery. Press the battery until you hear it click into place (Ref. 2 - Figure 7);
3. Turn the key clockwise (to lock the battery) and remove it (Ref. 3 - Figure 7).

1



2



3

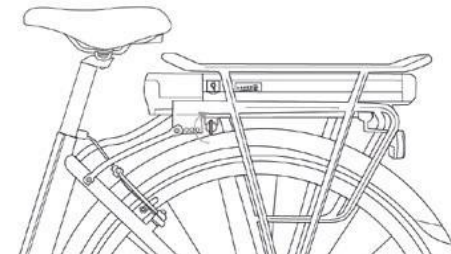


FIG. 7



To remove the battery proceed as follows:

1. Insert the battery release key into the slot on the front left side of the luggage rack (Ref. 1 in Figure 8) and turn it counterclockwise until you hear the release click;
2. Extract the battery by using the handle on the rear of the battery, taking care not to use excessive force (Ref. 2 in Figure 8);
3. Remove the key (Ref. 3 in Figure 8).

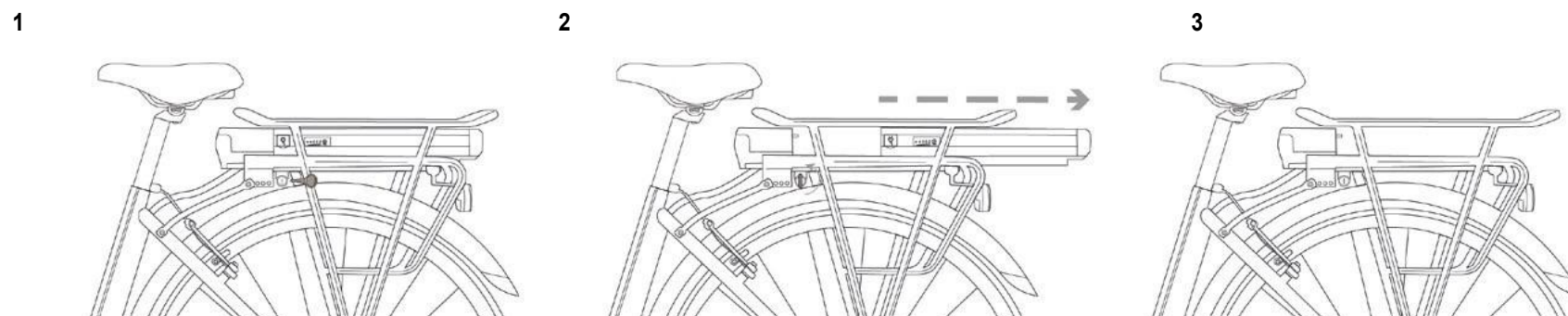


FIG. 8

4.1.2 Charging battery status

By pressing the assistance activation button on the display (Ref. L - Figure 6) you can directly view the battery charge status on the control display. As the battery gradually discharges, the charge status indicator bars on the display will turn off and then the assistance system will turn off when the system's power battery is completely discharged. It is also possible to view the battery charge status directly on the battery itself, thanks to the 5 LED lights (Ref. O - Figure 9) and the power button (Ref. P- Figure 9), present.

LED	Charging battery status
1	0 - 20 %
2	20 - 40 %
3	40 - 60 %
4	60 - 80 %
5	80 - 100 %

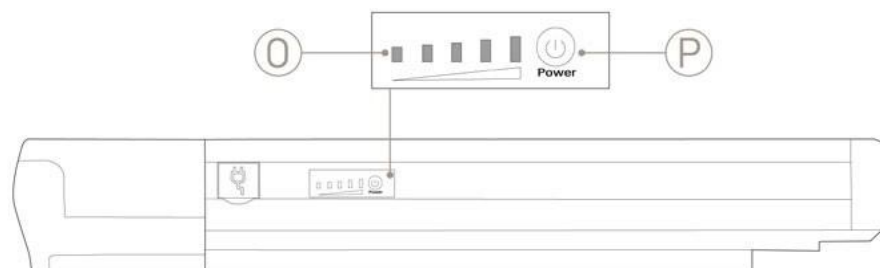


FIG. 9

4.1.3 Battery charging

Recharging the battery of the pedal-assisted bicycle can be done with the battery assembled on the vehicle or removed from it. In particular, proceed as follows:

- 1- Turn off the pedal-assisted bicycle assistance system using the appropriate “M” button (Ref. L - Figure 6);
- 2- Remove the battery if you wish to charge the battery separately;
- 3- Lift the rubber cap on the appropriate battery charging socket, located on the left side of the battery (Figure 10);
- 4- Connect the battery charger supplied to the socket with the appropriate plug;
- 5- Connect the battery charger to a power outlet (230 V / 50 Hz) and let the battery charge for the necessary time.

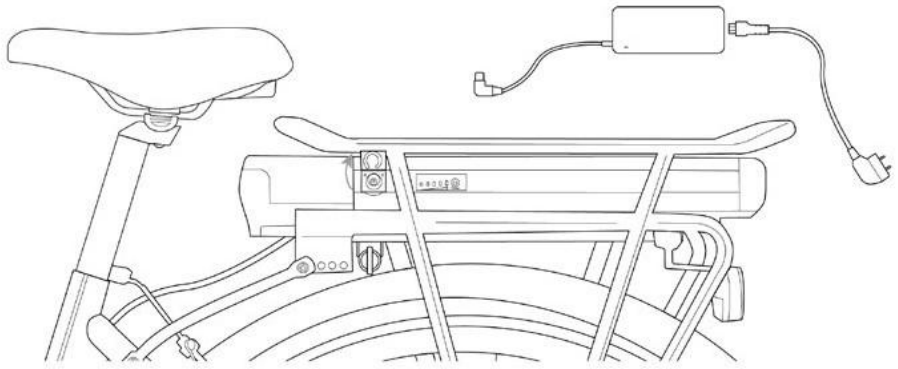



FIG. 10




ATTENTION

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

4.1.4 Problems solutions

PROBLEM	CAUSE/SOLUTION
The system does not turn on	Check battery charge is complete
PROBLEM	CAUSE/SOLUTION
L'assistenza non si attiva	Check if battery level is enough



ATTENTION

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

4.2 Front and rear light

To ensure visibility both during the day and at night, two lights are installed, one front (Figure 11) and one rear (Figure 12). These devices are activated by an on/off button (Ref.Q - Figures 11-12).

To replace the batteries, remove the screw (Ref. R - Figures 13-14) and open the device.



FIG. 11



FIG. 12

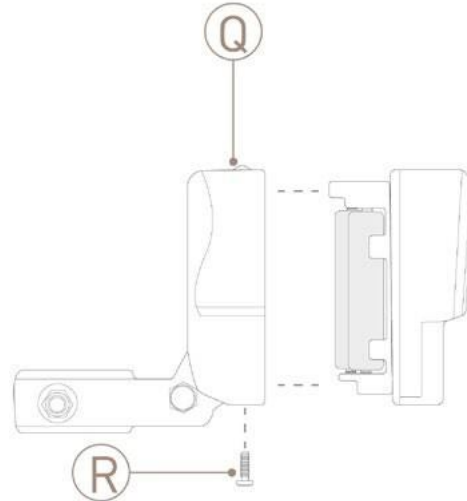


FIG. 13

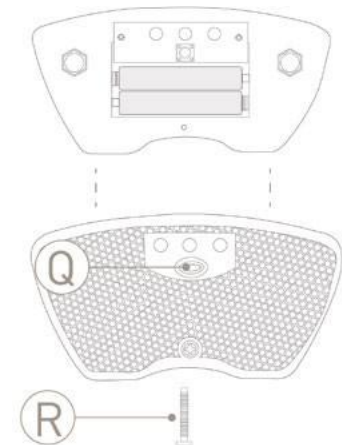


FIG. 14

4.3 Front suspensions

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. S - Figure 15). Rotate clockwise to stiffen the fork by increasing the preload.

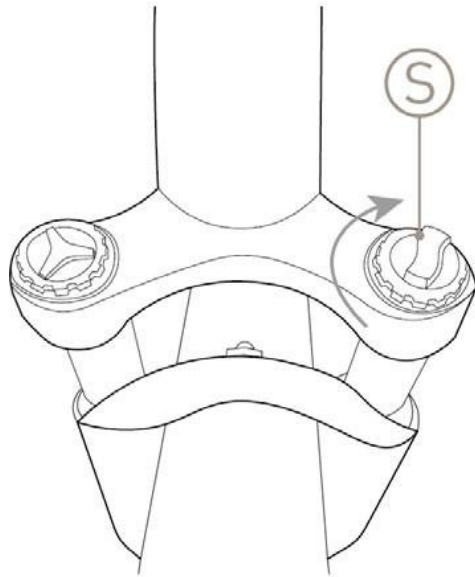


FIG. 15

4. CONDITIONS OF USE AND PROPER ENVIRONMENT

4.1 Proper use

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.

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

Other types of use, or the extension of the use beyond that foreseen, do not correspond to the destination attributed by the manufacturer, and therefore the same cannot assume any liability for any resulting damage.

4.2 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 permitted temperature: +40°C
- Minimum permitted temperature: 0 °C
- Maximum permitted humidity: 70 %
- Charging temperature 0 - 40°C

The environment of use may have an asphalt surface or with not excessively high roughness.

In addition, the place of use must be illuminated, by the sun or 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 torch with white light and a rear torch with red light.



ATTENTION

PROHIBITED 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 same (frame, wheels, etc.);
- In closed spaces, if they do not allow safe use;
- In extremely dark environments.



4.3 Improper use 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

- Carrying out prohibited operations invalidates the warranty.
- The manufacturer declines all responsibility for any damage to property or persons resulting from carrying out prohibited operations.



DANGER

STRICTLY PROHIBITED

- Riding 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.).
- Carrying a passenger in addition to the driver.
- 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.



5. LIFTING AND TRANSPORT

5.1 LIFTING

The weight of the RHEA pedal-assisted bicycle 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.



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.

DANGER

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

5.2 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

RISK OF INJURY

- **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!

6. COMMISSIONING

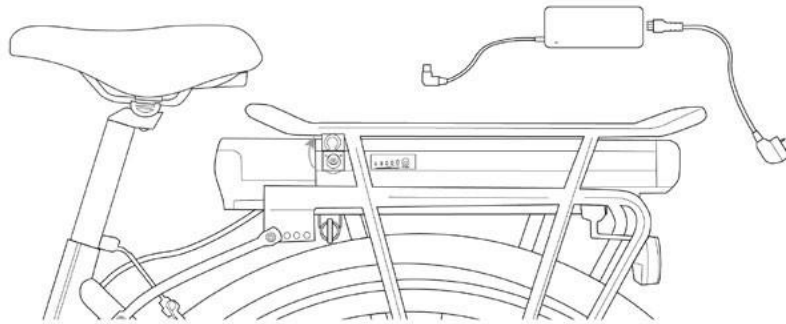
6.1 Battery charging

Before using the bicycle for the first time, the battery must be charged for at least 24 hours, using the special battery charger provided.

The pedal-assisted bicycle, model RHEA, is equipped with an electric motor powered by a 37 V lithium-ion battery. The battery pack is housed in the rear part of the bicycle, under the luggage rack.

The average charging time varies from 4 to 6 hours.

The charging operation can be carried out in a well-ventilated garage with the battery installed on the bicycle. To charge the battery, proceed as in paragraph 3.8.3.



ATTENTION

BATTERY CHARGER

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



ATTENTION

BATTERY CHARGING

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 3 months even if the bicycle is not used.



DANGER

NG

- **Always connect the plug to the battery and then the power plug to the mains.**
- **When charging is complete, always unplug the plug from the mains first and then the plug from the battery.**
- **Always recharge the battery completely.**
- **Always use the original power supply supplied.**
- **Do not leave the battery charging for longer than necessary.**
- **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 the plug from the mains and ventilate the room, do not touch the battery.**

CHARGE

6.2 Preliminary functions tests

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

6.2.1 Commands

Check the efficiency and charge status of the battery. Using the battery in very cold environments quickly degrades its efficiency.
Check the tension and lubrication of the chain.

6.2.2 Wheels

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



ATTENTION

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

6.2.3 Braking system

Visually inspect the braking system, checking that there are no damaged cables or lubricants on the braking surfaces of the brake and rim. Check the operation of the brakes with a low-speed braking test in an area free from obstacles, first with the rear brake and then with the front brake. Test the efficiency of the braking system on a flat path and at low speed.



ATTENTION

Negative test

If, during the preliminary checks, any defects are found and even one check 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.

<<Z



6.2.4 Frame, handlebar and saddle positions

Check that the frame, saddle and handlebars are correctly fixed and positioned in the most comfortable configuration for the rider to have complete control of the bicycle. If not, before setting off, adjust the position and saddle and handlebar adjustment systems. For further information on adjustment, refer to paragraph 2.6.

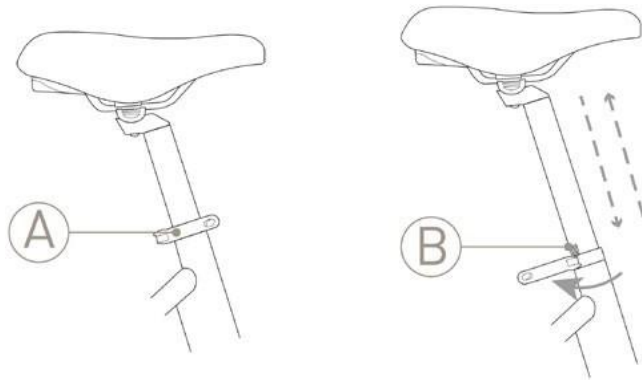


FIG. 1



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

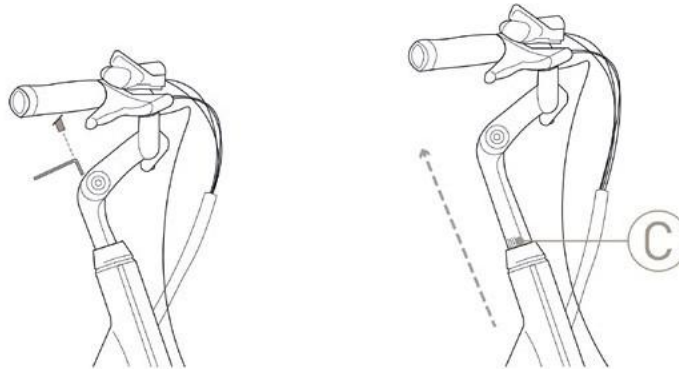


FIG. 2

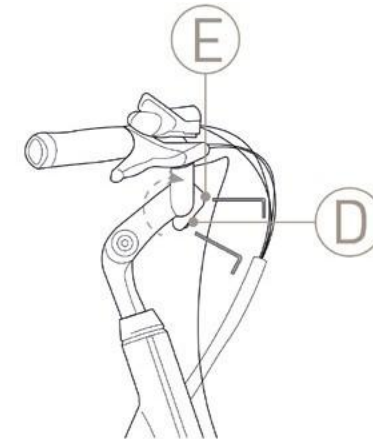


FIG. 3



IMPORTANT WARNING

The minimum insertion mark (C) should never be visible in order to have a minimum insertion length of the seat post tube into the frame tube.

It is strictly forbidden to use the bicycle without having correctly secured all the folded parts of the bicycle and without having assumed a comfortable and safe riding position.



6.2.5 Brakes adjustment

Adjust the brake lever to ensure a firm grip on the handlebars even when braking.

To apply maximum braking power to the lever, the following adjustments can be made:

- Rotate the brake lever using the tightening screw (Ref. U - Figure 16) until the hand reaches a comfortable position.
- Vary the brake lever stroke by acting on the register (Ref. T - Figure 16).

Warning: Excessive brake lever stroke leads to contact with the grip, limiting the braking action and possibly causing the fingers to be crushed.

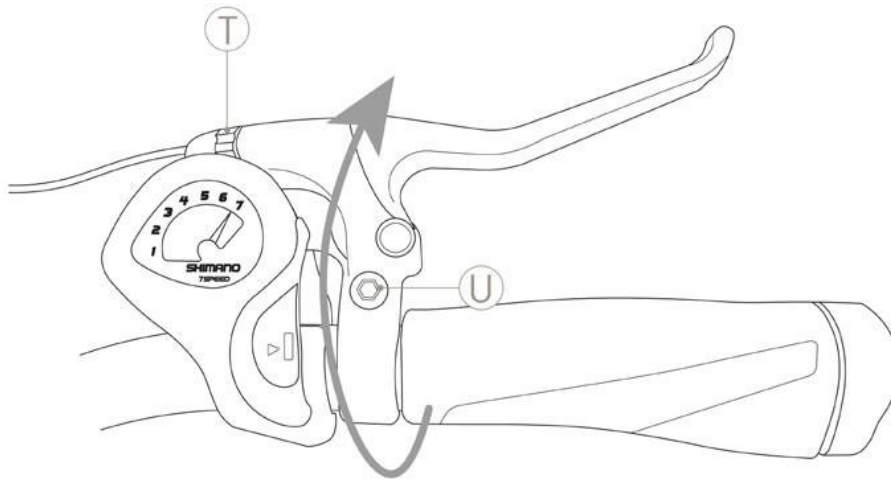
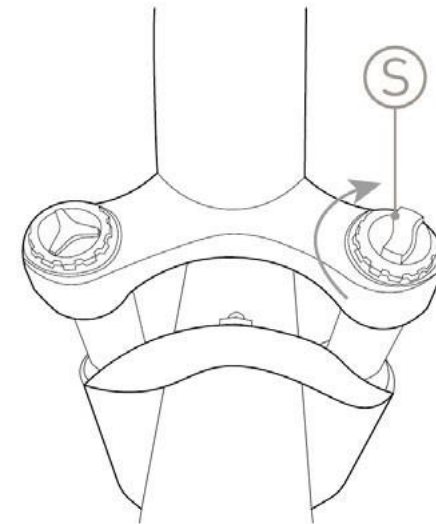


FIG. 16

6.2.6 Suspensions adjustment

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



Depending on the route and the load on the vehicle, it is possible to vary the stiffness of the fork using a special lever located on the left side of the fork (Ref. S - Figure 15).

FIG. 15



**DANGER****DEVICES ADJUSTMENTS**

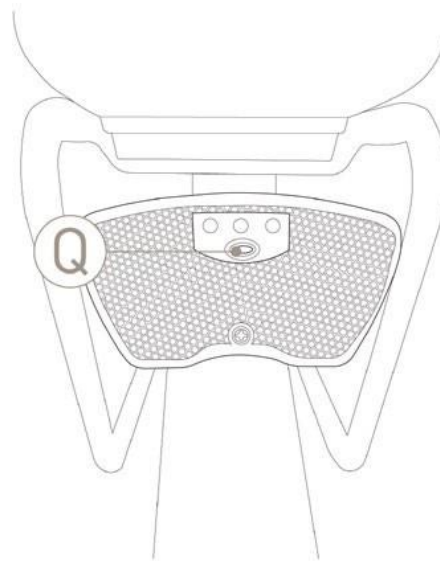
It is strictly forbidden to adjust the bicycle devices if you are not an expert and trained to do so. Incorrect adjustment can cause serious injuries.

Therefore, if you are not able to adjust these functions, contact specialized personnel.

The manufacturer is not liable for injuries resulting from incorrect adjustment of the pedal-assisted bicycle devices.

6.2.7 Lights

Before using the pedal-assisted bicycle, check the operation of the front and rear lights by pressing the on/off button (Ref. Q - Figures 11-12). For further information, refer to paragraph 3.9.

**FIG. 11****FIG. 12**

7. 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 is forbidden to carry a passenger in addition to the driver.
- 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.



DANGER

RISK OF INJURY

- **Check that all controls are fully functional.**
- **Always respect the highway code.**
- **Use appropriate protective devices (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 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 curve radius, 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.

7.2 Braking

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

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



ATTENTION

DRIVING CONDUCT

Excessive braking force can trigger harmful phenomena such as wheel lockup or the vehicle overturning. It is very dangerous to brake on a curve: you could lose control of the bicycle.

7.3 Bicycle parking

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

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





8 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.

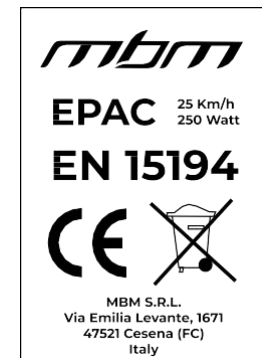
To maintain the full functionality of your pedal-assisted bicycle for a long time, it is necessary to carry out the maintenance as described, with correctness and professional skills.

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

8.1 Maintenance and daily check

- *Checking of plates and pictograms*

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



- *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

- *Braking system check*

The brakes must be adjusted to ensure effective braking and, at the same time, the control levers must have an adequate travel to be able to modulate the braking: in other words the brakes must be neither too loose nor too tight.



Brake adjustments must be carried out by authorised personnel only.

ATTENTION

8.2 Maintenance and weekly checks

- *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.

- *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!

- *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.

8.3 Maintenance and monthly checks

8.3.1 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.

8.3.2 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)

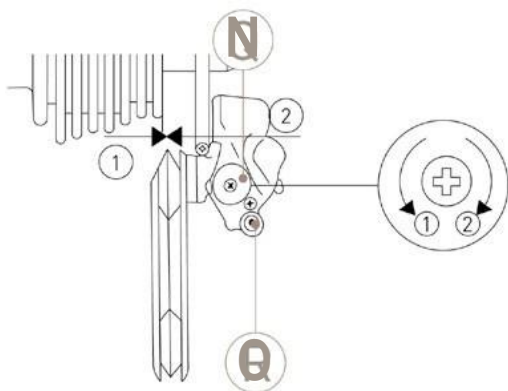


FIG. 17

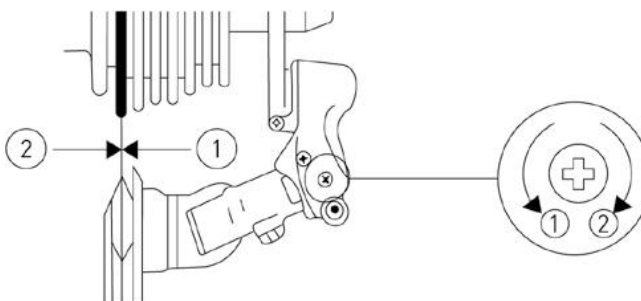


FIG. 18

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.

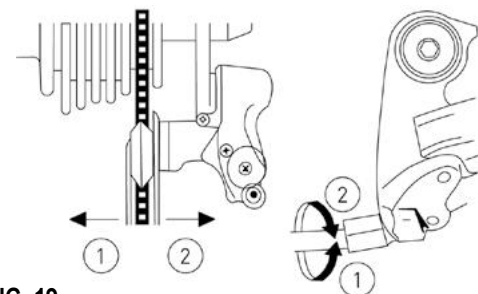


FIG. 19

9. TECHNICAL ASSISTANCE AND SPARE PARTS

If you need technical assistance, please contact your authorized dealer. If non-original parts are fitted, the warranty will no longer be valid!



ATTENTION

ORIGINAL SPARE PARTS

The manufacturer disclaims all liability for damages of any nature caused by the use of non-original spare parts.

10 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.

11 DISPOSAL OF COMPONENTS AND MATERIALS



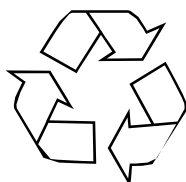
ATTENTION

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.

12 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.mbm bike.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.

13 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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