



EPAC BICYCLE
ELECTRIC PEDAL-ASSISTED CYCLE

USER MANUAL

OMEGA

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1. FOREWORD

1.1 General

This manual is an integral and essential part of the pedal-assisted bicycle (EPAC) and must be delivered to the user.

Before commissioning, it is essential that users read, understand and scrupulously follow the instructions below.

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 prescriptions.


With a view to continuous technological development, the manufacturer reserves the right to modify the pedal-assisted bicycle (EPAC) without notice, without this manual being automatically updated.


1.2 Assistance Service

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

1.3 Graphical form of safety warnings


To identify the safety messages in this manual, the following graphic warning symbols will be used. They have the function of attracting the attention of the reader / user for the correct and safe use of the pedal-assisted bicycle.


	ATTENTION	Pay attention
Highlights behavioral rules to be followed in order to avoid damage to the pedal-assisted bicycle and / or the onset of dangerous situations.		

	WARNING	Residual risks
It 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

2.1 General safety rules

	ATTENTION	Use of the pedal-assisted bicycle
<p>Each user must have first read this use and maintenance manual; in particular the chapter on safety instructions.</p>		

	ATTENTION	Risks associated with the use of the pedal-assisted bicycle
<p>Despite the application of safety devices, for the safe use of the pedal-assisted bicycle, it is necessary to take note of all the provisions relating to the prevention of accidents contained in this manual.</p> <p>Always stay focused while driving and DO NOT underestimate the residual risks associated with the use of the pedal-assisted bicycle.</p>		

Even if you are already practical in using the pedal-assisted bicycle, it is necessary to follow the instructions given here, in addition to the general precautions to be observed while driving a motor vehicle.

2.2 Liability

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

If the maintenance of the pedal-assisted bicycle is carried out in a way that does not comply with the instructions provided, with non-original spare parts or in any case in such a way as to jeopardize its integrity or modify its characteristics, the manufacturer will be relieved of any responsibility regarding personal safety and malfunction of the pedal-assisted bicycle.

If you hear unusual noises, or feel something strange, stop the pedal-assisted bicycle immediately. Carry out a check later and, if necessary, contact the Assistance Service.

The commitment of the public roadway implies knowledge and compliance with the rules of the highway code.

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

2.3 Warnings for users

- It is forbidden to load a passenger.
- It can only be used by adults and experienced kids.
- Do not take alcohol or drugs before riding the pedal-assisted bicycle.
- This model of pedal-assisted bicycle is designed and built to be used outdoors, on public roads or cycle paths.
- Do not ask the pedal-assisted bicycle for performances higher than those for which it was designed.
- Never ride the pedal-assisted bicycle with parts removed.

- Avoid uneven surfaces and obstacles.
- Drive with both hands on the handlebar.
- Replace worn and / or damaged parts, check that the protections are working properly before use.

2.4 Maintenance warnings

All maintenance operations must take place with the battery disconnected. During each maintenance phase, operators must be equipped with the necessary accident prevention equipment.

The tools used for maintenance must be suitable and of good quality.

Do not use gasoline or flammable solvents as detergents, but always use non-flammable and non-toxic solvents.

Limit the use of compressed air as much as possible (max 2 bar) and protect yourself with glasses with side shields.

Never resort to the use of open flames as a means of lighting when carrying out verification or maintenance operations.

After any maintenance or adjustment, 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 ARGENTO spare parts.

Any liability of the manufacturer for damage or loss of functionality caused as a result of using non-original accessories and parts is excluded.

2.5 Other provisions

The first thing to do when starting to use is to check the presence and integrity of the protections and the functioning of the safety devices.

If you find any defect, do not use the pedal-assisted bicycle!



WARNING

Repairs

It is strictly forbidden, therefore, to modify or remove the guards of the battery, the chain, etc. warning and identification plates.

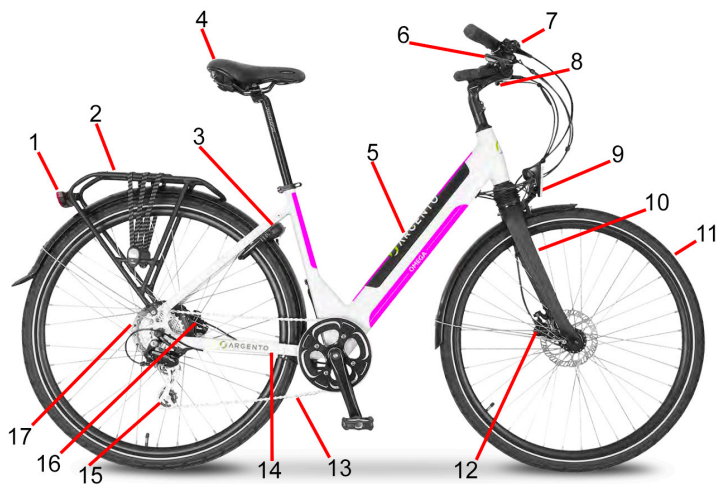
2.6 Warehouse deposit

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

- Repair it in a dry and ventilated place.
- Carry out a general cleaning of the pedal-assisted bicycle.
- Remove the battery from its seat and turn the key to OFF.
- Leave the bicycle on the stand.
- Protect exposed electrical contacts with antioxidant products.
- Grease all surfaces not protected by paints or anti-corrosion treatments.

3. DESCRIPTION OF THE BICYCLE (EPAC)

3.1 Parts list



1. Rear light
2. Carrier
3. Lock for rear wheel
4. Seat
5. Battery Samsung 36V
6. Display
7. Shifter SHIMANO
8. Lever brake
9. Front light
10. Fork
11. Wheel 28"
12. Front mechanical disk brake
13. Chain
14. Motor plug
15. Derailleur SHIMANO
16. Rear mechanical disk brake
17. Motor

3.2 Terms of use

The pedal-assisted bicycle was designed and built to be driven outdoors, on public roads and on cycle paths, but always on asphalted surfaces.

Any modification of 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 use beyond that envisaged, do not correspond to the destination assigned by the manufacturer, and therefore the manufacturer cannot accept any responsibility for any resulting damage.

Battery autonomy, and therefore the estimated mileage in km, can vary significantly depending on the type of use and external influences; see the following particularly influential factors: user weight, pedaling frequency, assistance level selected on the display, average speed, tire tread thickness and wear, slope and road surface, weather conditions.

3.3 Use environment

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

Maximum allowed temperature: + 40 ° C

Minimum allowed temperature: + 0 ° C

Maximum allowed humidity: 80%

The environment of use must have a flat, compact asphalt surface, free of roughness, holes or depressions, free of obstacles and oil stains.

In addition, the place of use must be illuminated by the sun or by artificial lights (recommended from 300 to 500 lux), in order to guarantee the correct view of the path and the controls of the pedal-assisted bicycle.



ATTENTION

Prohibited use environments

The pedal-assisted bicycle must not be used:

in areas subject to fire or explosion risk;

in environments with corrosive and / or chemically active atmosphere;

in poorly lit environments;

on land with a slope of more than 10%;

on uneven, unpaved land.

3.4 Improper uses

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

Forbidden Operations

Performing prohibited operations invalidates the warranty.

The manufacturer declines all responsibility for any damage to things and people resulting from the execution of prohibited operations.



WARNING

Strictly forbidden actions

Ride the pedal-assisted bicycle for uses other than those for which it was built, i.e. a passenger's pleasure craft.

Ride your pedal-assisted bicycle in areas where there is a danger of explosions.

Ride your pedal-assisted bicycle in adverse weather conditions (pouring rain, hail, snow, strong wind, etc.).

Transporting a passenger.

Ride your pedal-assisted bicycle under the influence of alcohol or drugs.

Ride the pedal-assisted bicycle if your weight is greater than the permitted weight.

Charge the battery in an environment that is too hot or insufficiently ventilated.

Cover the battery while charging.

Smoking or using open flames near the charging area.

Transit or stop on surfaces with a gradient greater than 10% or uneven (unpaved, with holes, depressions, obstacles, etc.).

Perform any maintenance with the battery connected.

Use non-original spare parts.

Insert the limbs or fingers between the moving parts of the bicycle.

It is strictly forbidden to raise the seat post beyond the limit marked on the seat post to not cause fractures to the frame.

4. LIFTING AND TRANSPORT

4.1 Lifting

The weight of the pedal-assisted bicycle is about 25 kg, so lifting by two adults is recommended.



WARNING

Crushing and impact

During lifting, it is necessary to operate with extreme caution in order to avoid damage to people and things.

This must be done by two people.

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

4.2 Transport

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

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

5. COMMISSIONING

5.1 Charging the battery

Before using the bicycle for the first time, it is necessary to charge the battery for at least 4-6 hours, until charging is complete, using the battery charger supplied.

The average charging time is around 4-6 hours.

The batteries are of the lithium type 36V.

To extend the life of the battery as much as possible, a full charge every thirty days is recommended even if the bicycle is not used.

We recommend charging the battery with its special battery charger after each use of the pedal-assisted bicycle.

Charging with battery inserted:

Insert the charger plug into the appropriate socket on the battery;
Connect the battery charger to the mains socket (230V / 50Hz).


Charging with battery removed:

Insert the key in the lock located on the battery cover.



Turn the key anticlockwise until it is in the UNLOCKED position (symbol OPEN), remove the battery from the frame and place it on a flat surface, follow the precautions indicated with regard to charging procedures, insert the battery charger plug into the socket on the battery and then connect the charger to the mains socket (230V / 50Hz).

The red light in the battery charger is on during charging, the red light turns green when charging is complete.

	WARNING	Precautions when charging
<p>Always connect the plug to the battery and then the power plug to the mains.</p> <p>When recharging is complete, always disconnect the plug from the mains first and then the plug from the battery.</p> <p>Always recharge the battery completely.</p> <p>Always use original power supplies.</p> <p>Do not leave the battery charging for more than 16 hours.</p> <p>Always recharge in a ventilated area.</p> <p>Do not recharge the battery in too hot environments.</p> <p>Do not recharge the battery near flammable liquids.</p> <p>Do not cover the battery in any way while charging.</p> <p>If the battery gives off a bad smell, immediately disconnect the plug from the power supply and ventilate the room, do not touch the battery.</p> <p>Keep the battery in a cool, dry place when you are not using it.</p>		

5.2 Control devices


Check the efficiency and state of charge of the battery. Use in a very cold environment quickly degrades the efficiency of the battery. Check the chain tension and lubrication. Check that the pedals are fully tightened in their respective positions.

5.3 Wheels

Check the tire inflation pressure. Check the state of wear of the tires: there must be no cuts, cracks, foreign bodies, abnormal swellings, exposed canvases and other damages.




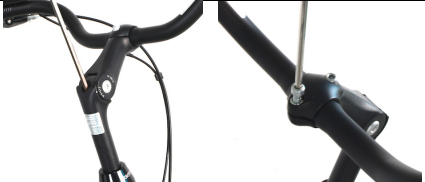

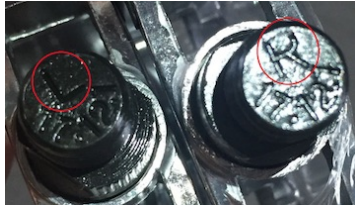
5.4 Brake system


Check the operation of the brakes with a low speed braking test (max 6km / h) in an obstacle-free area, first with the rear brake and then with the front brake.

	ATTENTION	Negative verification
<p>In the event that defects of any kind are found during the preliminary checks and even one check is negative, DO NOT RIDE THE ASSISTED BIKE.</p> <p>Immediately activate all measures to carry out an adequate repair, and if necessary, contact the Assistance Service.</p>		

6. ASSEMBLY

6.1 Omega model assembly


<p>1. Carefully remove the bike from the packaging, then remove all the protective material, being careful not to scratch the painted parts and not pull the bike cables.</p> <p>The removal of the bike from the packaging must be carried out by two adults, in order to avoid injuries or crushing.</p>	
<p>2. Insert the front wheel in the housings of the front fork, tighten the wheel with the quick closing device.</p>	
<p>3. Tighten the front light, make sure that the front light is correctly aligned with the center of the fork.</p>	
<p>4. Place the handlebar stem into the accommodation of the frame, then tighten the screw placed on the handlebar stem. Make sure that the handlebar is in a central position respect to the handlebar stem, tighten the two bolts present in the aluminum plate above the handlebar.</p>	
<p>5. Insert the seat post into the bike making sure to orient the saddle and tighten the seat post correctly with the appropriate device on the frame as shown in the photo on the right. For structural and safety reasons, it is strictly forbidden to extract the seat post / seat post beyond the limit indicated on the seat post to avoid the risk of fractures to the frame.</p>	
<p>6. Identify the right pedal by means of the R mark placed on the pedal axis, while the L mark identifies the left pedal. Tighten the left pedal anticlockwise and the right pedal clockwise, in their respective positions to avoid serious injuries while using the bike and damaging the bike.</p> <p>MAKE SURE ALL BOLTS AND PEDALS ARE TIGHT</p>	



WARNING

Injury hazard

- Check that all the bolts and pedals have been correctly tightened.
- Malposition of the pedals and / or failure to tighten them can damage the front gear and / or cause the pedals to come out while riding the bike, with the risk of causing serious injury to yourself and others.



ATTENTION

Negative verification

- In the event that, during the assembly, unclear passages or difficulties in the assembly itself should be encountered, **DO NOT RIDE THE ASSISTED BIKE.**
- Contact the Assistance Service of your authorized ARGENTO dealer.

6.2 Maximum limit of the seat post



WARNING

IT IS STRICTLY FORBIDDEN

For structural and safety reasons it is strictly forbidden to remove the seat post beyond the mark indicated on the seat post to avoid the risk of possible fractures to the frame.



7. MAINTENANCE INSTRUCTIONS AND ROADING

All maintenance operations must be carried out with the battery removed and the bicycle resting on the stand.

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

This manual does not include information regarding disassembly and extraordinary maintenance, as these operations must always be carried out exclusively by the service staff of your authorized ARGENTO dealer.

The Assistance Service is able to provide all the information and to answer all requests to take care of and keep your pedal-assisted bicycle perfectly efficient.



ATTENTION

Negative verification

- **If even a single check is negative, DO NOT RIDE the pedal-assisted bicycle.**
- **Immediately take all measures to carry out a suitable repair and if necessary, contact the service center of your dealer.**

7.1 Cleaning

Cleaning the pedal-assisted bicycle is not only a matter of decorum but also allows you to immediately detect any defect in the same.

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

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

7.2 Chain lubrication

It is important to lubricate the chain regularly, to avoid excessive wear and to extend its life.

Clean the entire length of the links with a rag.

Spray a specific grease in spray on the transmission chains on all the links.

7.3 Checking the parts

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

Make sure that all the bolts and pedals of the pedal-assisted bicycle are properly tightened.

Check the condition and fastening of the battery, the sheaths of the electric cables must be in good condition and the terminals must be tight and not corroded.

Check the battery charge status by means of the indicator on the handlebar display.

For a correct use of the battery of your EPAC vehicle it is suggested to always charge the battery after each use of the bike.

Using the specific inflation valve on the rims, check the tire inflation pressure using a compressor and a gun with pressure gauge.

Check the condition of the tread, the rim and the fastening of the rims to the hubs.

In case of tire replacement, contact the After-Sales Service or a qualified tire dealer.

Do not change the tension of the spokes: the adjustment must be carried out by specialized personnel and with suitable means.

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

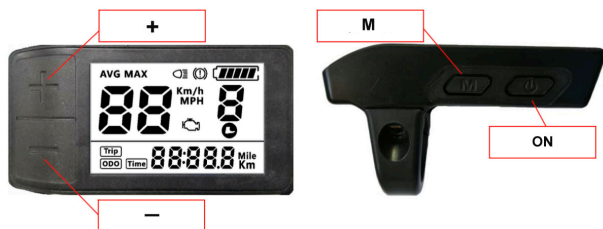
8. LCD DISPLAY

8.1 Foreword

The pedal-assisted electric bicycle is equipped with an LCD display for complete management of all the functions provided for your bike.

8.2 Switching On/Off

Press and hold the ON button for at least 1 second to turn the LCD display on / off.



8.3 Assisted pedaling (PAS)

Press the + or - button to increase or decrease the PAS level (pedal assist mode). Level 9 is the maximum selectable level and provides the maximum possible help from the motor of the pedal-assisted bicycle, on the contrary level 1 provides the minimum help from the motor. Level 0 does not provide help from the engine.



8.4 AVG SPEED – MAX SPEED – TRIP – ODO – TIME

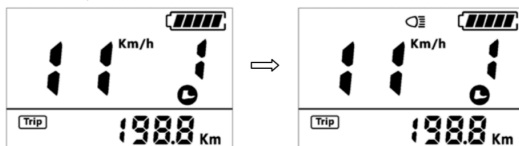
Press the ON button to switch between the AVG SPEED - MAX SPEED - TRIP - ODO - TIME function

The AVG SPEED function shows the average speed kept during the last use of the bike, the MAX SPEED function shows the maximum speed kept during the last use of the bike, the TRIP function consists in showing the partial Km traveled with your electric bike, the ODO function consists in showing the total Km traveled with your electric bike, the TIME function shows the accumulated time of use since the last use of your bike.

Simultaneously press the + and - buttons to reset the AVG SPEED - MAX SPEED - TRIP - TIME function

8.5 Lighting management

Press and hold the + button for at least 1 second to switch the front and rear lights on / off.



Check that the reflectors are present and well tightened in the front and rear wheel.

8.6 Assisted walking

Keep the button pressed for at least 2 seconds - to activate the walking assist function, the same function is interrupted when the button is released - The assisted walking function allows the bike to activate the motor without the need to pedal, this function allows the bike to reach a maximum speed of 6 km/h.



ATTENTION

Assisted walking

Never use the walk assist function while riding, as the electric parts of the bike could be damaged.

Always use the walk assist function while walking alongside your electric bike, firmly holding the handlebar grips with both hands.

8.7 Battery indicator



The battery indicator is complete upon completion of charging the battery of your pedal assisted bicycle. The battery indicator drops in level as the pedal-assisted bicycle is used. The battery indicator can fluctuate in the charge level depending on the use of the pedal-assisted bicycle, for example if you go uphill the level of the battery indicator can drop rapidly as it has a much higher battery consumption supplied on your pedal-assisted bicycle.

For a good use and maintenance of the battery it is recommended to fully charge the battery after each use of your electric bike.

9. LCD CONFIGURATION

Press the M button for at least 2 seconds to enter the LCD display configuration. Within the display configuration, press the + and - buttons to change the value of the single parameter, press the M button to move to the next parameter, press the M button for at least 2 seconds to exit the LCD display configuration.

9.1 Km / Miles

Indicated by the S7 symbol, press the + and - buttons to switch from a Km / h to MPH display.

9.2 Display backlight

Indicated by the symbol b1, allowed values: 1-5.

9.3 Automatic display switch-off

Indicated by the symbol 0F, allowed values: 0-15.

The values set correspond to the minutes.

If the set value is 0, this function is not activated.

If the imported value is a value between 1 and 15, the display will automatically turn off after a few minutes.

9.4 Wheel diameter

Indicated by the HD symbol, allowed values: 6-34.

The values set correspond to the inches of the wheel diameter. For your model, leave the value at 28 otherwise the values shown on the display when using your bike will not be correct.

9.5 Password - Speed limit

Indicated by the symbol Pd.

Then enter the password "1919" using the + and - buttons, confirm each single value in the password entered with the M button.

After entering the password correctly, you enter the speed limit parameter indicated by the SL symbol, allowed values: 10-100.

9.6 Motor parameter

Indicated by the HL symbol, make sure that the value set is number 1.

If a different value is set, anomalies in the speed detected on the display could occur.



ATTENTION

Maximum speed allowed

The maximum speed allowed by law is 25km / h.

Any interventions not authorized by the manufacturer to the control unit exclude the manufacturer of any damage caused to people and / or things, also the warranty on the purchased product is invalidated.

The control unit has been programmed not to allow changes to the maximum speed parameter.


Maintain a speed and behavior appropriate to your abilities, never use the bike above 25Km / h as it could cause serious damage and injury to yourself or other people.

9.7 Number of assistance levels (PAS)

Indicated by the PA symbol, press the + and - buttons to switch between the selectable values UBE - 3 - 5 - 9.

Do not select the UBE value (manufacturer's test value) in order not to find anomalies on your display and compromise the normal operation of your electric bike.

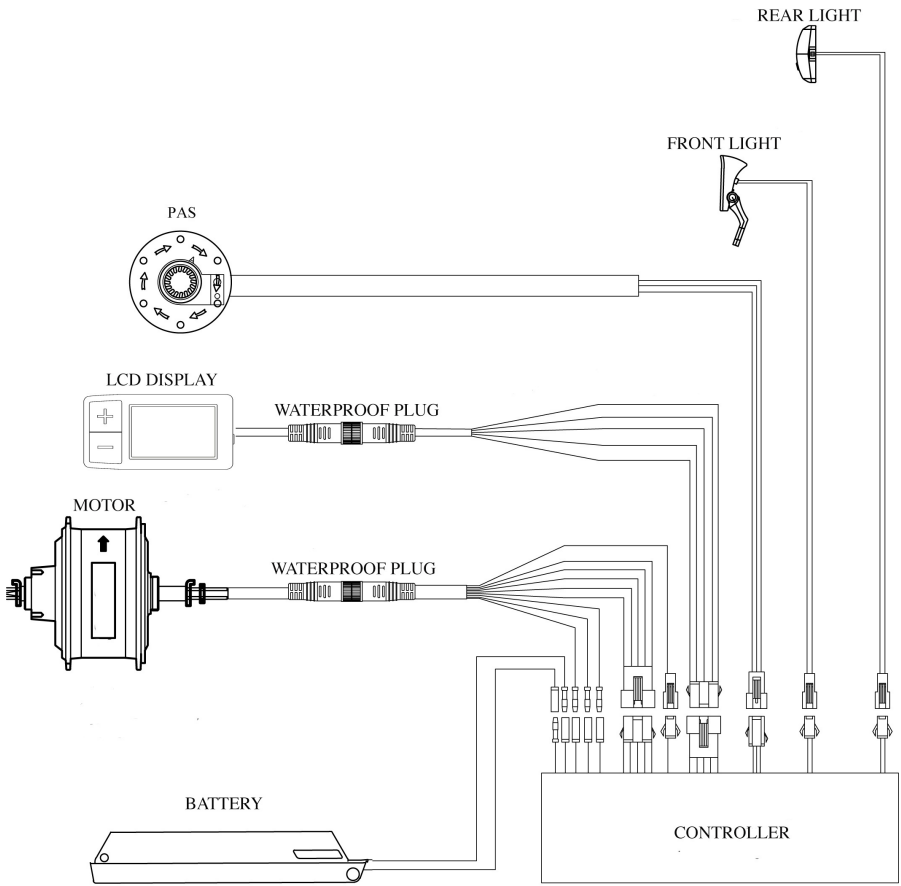
10. ERROR CODES

If a malfunction occurs on your electric bicycle, this icon  will be shown on the display, together with the respective error code.

Please consult the following error code table and report everything to the after-sales service.

Code	Definition
01	Communication error
03	Error in the brake system
04	Accelerator error
06	Low voltage protection
07	High voltage protection
08	Anomaly in the hall sensor
09	Phase line anomaly
10	Controller overheating
11	PAS error
12	Anomaly of the current sensor
13	Battery overheating
14	Motor overheating
21	Speed sensor error
22	BMS anomaly
30	Communication error

11. CONNECTION DIAGRAM



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