

nilox

e-bike

K3
MID

Electric Pedal Assisted Bicycle Manual, with Lithium Battery.

Dear Customer,

Thank you for purchasing our pedal electric cycle. Your new bicycle is absolutely reliable and safe, thanks to innovative technical research and careful quality control which will guarantee great pleasure for many years.

Figures, descriptions and data are to be considered non-binding. For any need, doubt or question, please contact your Dealer.

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MANUFACTURER DATA

DENVER S.R.L.

Via Primo Maggio 32

12025 - Dronero - (CN)

Tel. +39 0171 911383

ATTACHED DOCUMENTS: INSTRUCTION MANUAL AND WARRANTY

TO USE THIS PRODUCT, CAREFULLY READ THE OWNER'S MANUAL, THE INSTRUCTION MANUAL AND WARRANTY

SHOULD THE BICYCLE BE SOLD TO THIRD PARTIES, ALL DOCUMENTS MUST BE DELIVERED TOGETHER WITH THE BICYCLE

AUTHORISED CUSTOMER SERVICE

The manufacturer only authorises the authorised dealer to carry out any maintenance on the product.

TECHNICAL DATA

Weight of bicycle: 26 kg +/- 1kg

Weight of bicycle + rider: 120 kg

NOISE LEVEL

The device does not exceed 70dB.

DATA CONCERNING THE BICYCLE IN ITS STANDARD CONFIGURATION. TECHNICAL DATA ARE FOR INFORMATION ONLY THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THESE WITHOUT PRIOR NOTICE.

PRESENTATION OF THE MANUAL

This manual contains the operating and maintenance instructions for the electric pedal assisted bicycles.

The manual consists of several sections, each of which deals with a series of topics, divided into chapters and paragraphs. The table of contents lists all the topics covered throughout the entire manual.

The page numbering is progressive, and each page displays its number. This manual is for the owner or user of the bicycle and concerns all post-sales and production technical aspects.

Should it subsequently be sold or given to third parties for any reason (sale, use, or any other reason), the bicycle must be delivered complete with all its documents.

The information contained in this manual does not intend and cannot replace the knowledge and experience of the user/customer, who, however, is solely responsible for the use for which the bicycle has been purchased.

This manual contains proprietary information and may not be supplied to third parties, even partially, for any reason and in any form without the manufacturer's prior written consent.

The manufacturer declares that the information in this manual is consistent with the technical and safety specifications of the bicycle referred to in this manual.

A certified copy of this manual is enclosed in the bicycle technical file, kept by the manufacturer.

The manufacturer does not recognise any documentation that has not been produced, released or distributed by itself or by its authorised representatives.

WARNING

This manual is a supplement to your 'instruction manual and warranty'.

This supplement provides important information regarding: MAINTENANCE, TECHNICAL DATA and DESIGN SPECIFICATIONS.

PLEASE READ THIS SECTION CAREFULLY

WARNING

TO SAFEGUARD THE INTEGRITY OF ALL THE BICYCLE COMPONENTS, PLEASE RESPECT THE TECHNICAL DATA SHOWN IN THE INSTRUCTION MANUAL.

The nameplate also includes the CE marking.

SAFETY DEVICES

SAFETY DEVICES INSTALLED

The bicycle is equipped with devices to ensure the safety of the user, even in the event of a malfunction

WARNING

THE EFFICIENCY OF ALL THE SAFETY DEVICES IS GUARANTEED WHEN THE BICYCLE IS USED APPROPRIATELY AS DESCRIBED IN THIS MANUAL. IN PARTICULAR, THE MAINTENANCE OPERATIONS DESCRIBED UNDER THE MAINTENANCE SECTION MUST BE CARRIED OUT, AND THE FUNCTIONS AND FACTORY SETTINGS MUST NOT BE MODIFIED OR CHANGED IN ANY WAY.

- The electric motor may switch off when it reaches temperatures that are too high as a result of prolonged stress, such as long steep slopes.

PEDELEC BICYCLE: the motor is activated by pedalling and remains in operation until a speed of 25 km/h is reached. An interruption in pedalling disengages the motor.

THIS IS NOT AN ELECTRIC BICYCLE. THIS IS NOT A MOPED

WARNING

DO NOT MODIFY THE MOTOR OR ITS COMPONENTS IN ANY WAY!

Doing so could result in severe damage to the bicycle and serious injury to the rider and would be in breach of the law.

THERE IS NO WARRANTY COVER.

INTENDED AND NON-INTENDED USE OF THE BICYCLE

INTENDED USE

The electric pedal assisted bicycle is designed and built uniquely for short and medium trips in town or extra urban roads, solely and exclusively where permitted by the road code.

NON-INTENDED USE

No use other than that described in the INTENDED USE section is foreseen.

IT IS NOT INTENDED FOR OFF-ROAD USE: any excessive vibration may damage the bicycle or its components.

It is also absolutely forbidden to:

- Use the bicycle or parts thereof for activities other than those intended.
- Use the bicycle with any electric components other than indicated in the technical specifications.
- Use of the bicycle by persons without the capability.
- Use of the bicycle should you have any incompatible pathologies (e.g. back and spinal pathologies).

Re-use of any part of the bicycle after it has been decommissioned releases the manufacturing company from any liability arising from the use of the part.

- The use of the bicycle without protective equipment.

THE MANUFACTURING COMPANY CANNOT BE HELD LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER CAUSED BY ANY NON-INTENDED USE OF THE BICYCLE. ANY NON-INTENDED USE OF THE BICYCLE ENTAILS THE IMMEDIATE CANCELLATION OF THE WARRANTY TERMS.

RESIDUAL RISKS

- Some bicycle components can reach high temperatures (see motor and rotors).
- High temperature parts, given their mass, have a long cooling off time. It is therefore necessary to ensure they have completely cooled off before touching them (two hours) without adequate protection, even after a while from when switch off occurred.
- Disconnect the battery before carrying out any maintenance work.
- Some parts may have sharp and protruding edges. Therefore, wear appropriate clothing to avoid cuts, scratches or abrasions.

DANGER

ACCESS TO CLOSED OR PROTECTED PARTS OF THE BICYCLE SHOULD ONLY BE CARRIED OUT FOR MAINTENANCE OPERATIONS AND ONLY BY PERSONNEL AUTHORISED BY THE COMPANY SUCH AS THE DEALERS.

1. Instructions for Use

WARNING

MAKE SURE THAT YOUR ELECTRICAL POWER SUPPLY HAS BEEN DISCONNECTED BEFORE STARTING.

1.1. At first use, read the following carefully.

1.2. Carefully check the entire bicycle in all its parts. Make sure that the screws are firmly tightened, that the control and brake cables are secure and that there is no abnormal play between the moving and the support parts.

1.3. Make sure the battery pack is firmly attached to the bicycle frame and that it cannot move in any way during use.

1.4. Check that the brake levers work correctly and become familiar with their braking action. The left lever activates the front wheel brake while the right one activates the rear wheel brake.

1.5. Make sure the handlebar turns on both sides smoothly and without friction.

1.6. Check the pressure of the tyres. Check that the pressure does not exceed the maximum permitted (see information on the tyre's side) and that there are no signs of damage or ageing on the tread.

1.7. Check that all the lights are working properly.

1.8. Make sure the bend and the handlebar attachment are firmly fixed and at the right height for your physical characteristics.

1.9. Check that the saddle is at an appropriate height from the ground for your physical characteristics and skills. Check that the seat post lock does not allow the saddle to slide.

If in doubt, please contact your dealer who will check the correct functioning of each part.

The use of high-pressure water jets are not advised. Wash the bicycle with a sponge and avoid wetting any electrical components.

2. Safety

2.1. Read the instruction manual carefully before using the bicycle.

2.2. Should a minor use it, we recommend that adults in charge should explain the correct operation of each part of the bicycle to the child and make sure that all the instructions in this manual have been understood.

2.3. Children under the age of 14 should not use pedal assisted e-bicycles. In any case, adults are liable for children below the age of 18 using the bicycle and for any unforeseen events which may occur.

2.4. Do not lend the bicycle to people who have not read this booklet or who do not know how to operate the pedal assisted system.

2.5. If used on public roads, follow the road code in force.

2.6. Always use a certified helmet.

2.7. Should you use it at night, make sure that the electrical system of the bicycle is working, switched on, and compliant with the current road code laws.

POWER SUPPLY FOR THE LIGHTS: DYNAMO; REMOVABLE BATTERY; MOTOR SYSTEM BATTERY

2.8. Do not overload the bicycle with excessive weights. The maximum capacity of the bicycles is 120 kg.

2.9. Avoid prolonged exposure to the sun. When not in use, make sure the bicycle is always kept in the shade.

NOTE: The heat generated by solar irradiation can increase the temperature inside the battery pack and deteriorate the electrochemical elements.

2.10. In the event of heavy rains, do not to use the bicycle and shelter it from the weather. Avoid prolonged exposure to fog, dew, soft rime, and any other wet environment.

NOTE: Although well-protected, metallic and electronic parts may show corrosion which may compromise the functionality of the bicycle.

2.11. The bicycle is designed to be used by one person at a time. Do not carry anyone else other than yourself.

3. Use of the bicycle

FOREWORD

This section refers to the controls and the instrument panel.

STARTING THE BICYCLE

The electric motor is initiated exclusively through the force applied on the pedals by the user. It disengages and ceases to propel the vehicle when pedalling stops.

DANGER

NEVER USE THE BICYCLE IN CASE OF STORMS OR HEAVY RAIN AND NEVER LEAVE IT EXPOSED TO THESE WEATHER CONDITIONS.

BATTERY WARNINGS

- The battery is subject to a lifecycle, which can last up to hundreds of recharges.
- Do not use battery chargers not approved by the manufacturer, as they may cause fire, explosion, or leakage of hazardous liquids and risk of electric shock.
- Disconnect the unit when the battery is fully charged. Excessive charging can limit its duration.
- Extreme temperatures can greatly reduce the battery's capacity and life. The battery's maximum performance peak can be obtained at temperatures between 10°C and 30°C.
- Avoid using it in temperatures below freezing point.

Charging and standby times are therefore influenced by several factors, so they can vary considerably even from what is indicated in this manual.

4. Use of the bicycle

E-P3+

4.1. TURN E-P3+ SYSTEM ON

1. Turn the battery ON using the on/off button.
2. Select your preferred assist mode from 1 to 5 using the arrow buttons.
3. The motor will start when the pedals start turning.
4. Change the assist mode in accordance with the conditions of use.



4.2. TURN E-P3+ SYSTEM OFF

To turn the E-P3+ system off, first switch the display off and the battery will switch off too.

4.3. DATA SHEET:

Lithium ion rechargeable battery

Working temperature: Charged: 0°+45°C

Dead: -20°+60°C

Storage temperature: 1 year: -20+25°C

3 months: -20+45 °C

1 month: -20+55°C

Air humidity: 45-70%

Dimensions: 348x81x72.3 mm

Weight: 2,620 Kg

DANGER: Use the POLINI specified battery charger and observe the specified charging conditions when charging the battery. Not doing so may cause overheating, bursting or ignition of the battery.

CAUTION:

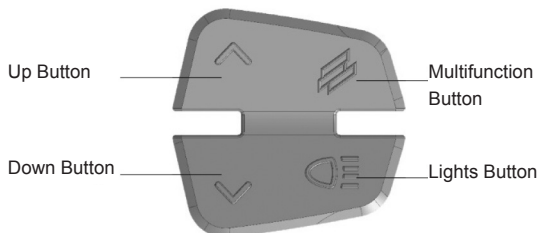
- When removing the battery charger power plug from the outlet or the charging plug from the battery, do not pull it out by the cord.
- When charging the battery while it is mounted on the bicycle, be careful not to trip over the charger cord or get anything caught on it. This may lead to injury or cause the bicycle to fall over, damaging the components.
- If the bicycle is stored for an extended period of time immediately after purchasing it, charge the battery before using the bicycle.

4.4 DISPLAY TFT

DANGER: to use the display while pedaling can distract the cyclist and cause accidents. Always follow the road rules.

4.4.1 FUNCTION BUTTONS

4 BUTTON SWITCH CONTROLLER



In the display pages:

Up Button :

- short press: increase the assistance level.
- long press: WALK function (this function is activated only if the assistance level is set from 1 to 5).

Down Button :

- short press: decrease the assistance level.
- long press: shortcut to Reset Trip (partial kilometers).

Multifunction Button (Polini logo):

- short press: change the display page (main screen, fitness, Average,...)
- long press: connect to the Menu page, only if the bike is stationary.

Lights Button:

- lights on/off (if installed)

In the Menu pages:

Up Button  and Down Button :

- select the required option.

Multifunction Button (Polini logo):

- short press: confirm the selected option.
- long press: quick exit from the Menu pages.

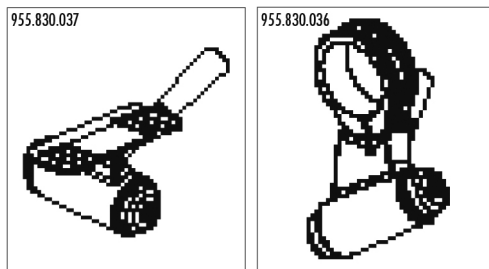
2 BUTTON SWITCH CONTROLLER

(955.830.036 mtb and 955.830.037 road)

ATTENTION: to use the 2-button switch controller it is necessary to install the firmware 1.01.14 or next on the display. To update the display it is necessary to

update the motor to the 4.61 version or next, available at the link <https://www.poliniebike.com/polini-e-p3-5/>

CAUTION: install the control when the motor is OFF.



Key + :

- Short pressure: increase the assistance level.
- Log pressure: activate the walk mode.

Key - :

- Short pressure: decrease the assistance level.
- Log pressure: activate/deactivate the lights.

Key + and simultaneously - :

- Short pressure: change the screen view page (main screen, fitness, Average,...)
- Log pressure: menu screen view, only if the bike is stationary.

In the Menu pages:

Key + : scroll the entries upwards.

Key - : scroll the entries downwards.

Key + and simultaneously - :

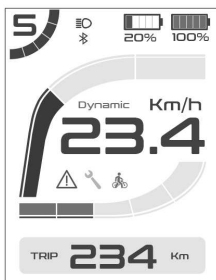
- short pressure: confirm the selected choice.
- long pressure: exit from the Menu page.

E-bike equipped with 880Wh battery: + key switches the system on.

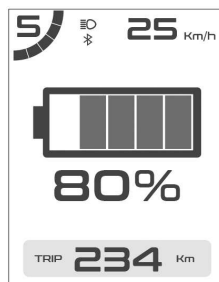
4.4.2 PAGES

Starting from the home page (with partial Trip kilometers), by pressing the multifunction button (Polini logo) you can reach the following pages in rotation:

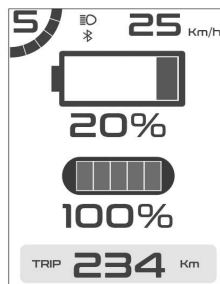
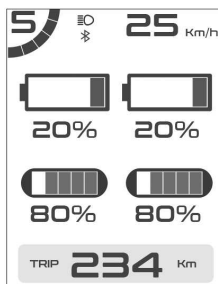
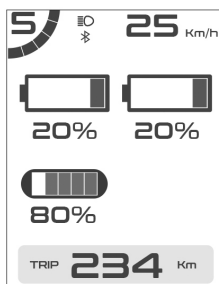
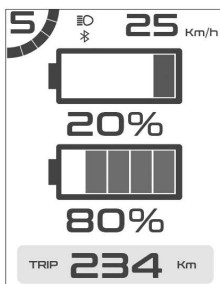
Home page with partial trip kilometers



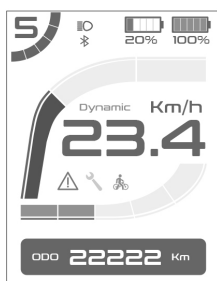
Battery page



Secondary battery page (if present)



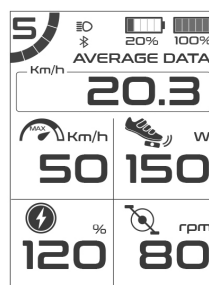
Home page with Odometer total kilometres



Fitness page (values in real time)

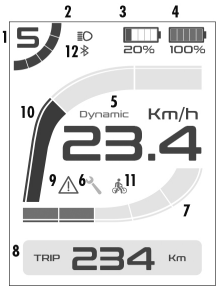


Average Fitness page (it displays the average of the values recorded since the last trip reset). To reset the page values, press and hold the down button ∇ or use the appropriate option in the menu.



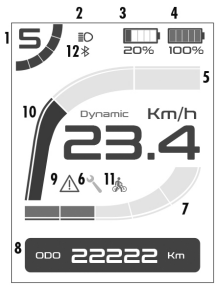
4.4.3 PAGES IN DETAIL

Home page with partial trip kilometres



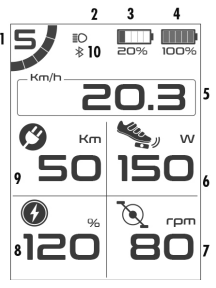
- 1. Assistance Level
- 2. Lights
- 3. Battery 2
- 4. Battery 1
- 5. Motor map
- 6. Maintenance
- 7. Motor power %
- 8. Partial trip
- 9. Anomaly
- 10. Speed
- 11. Walk
- 12. Bluetooth

Home page with Odometer total kilometres



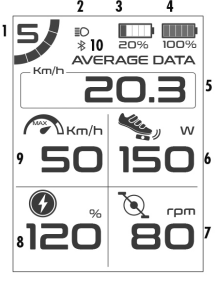
- 1. Assistance Level
- 2. Lights
- 3. Battery 2
- 4. Battery 1
- 5. Motor map
- 6. Maintenance
- 7. Motor power %
- 8. Odometer
- 9. Anomaly
- 10. Speed
- 11. Walk
- 12. Bluetooth

Fitness page (values in real time)



- 1. Assistance Level
- 2. Lights
- 3. Battery 2
- 4. Battery 1
- 5. Speed
- 6. Power on the pedals
- 7. Pedaling cadence
- 8. Motor power
- 9. Autonomy
- 10. Bluetooth

Average fitness Page (average values)



- 1. Assistance Level
- 2. Lights
- 3. Battery 2
- 4. Battery 1
- 5. Average speed
- 6. Average power on the pedals
- 7. Average pedaling cadence
- 8. Motor power media
- 9. Remaining kms
- 10. Bluetooth

4.5 MENU

By pressing the multifunction button (Polini logo) for more than 1 second, the menu is showed only if the bike is stationary.

4.5.1 General Menu:

SETTING
RESET TRIP
DRIVE MODE
SYSTEM
DIAGNOSTIC
INFO
POWER OFF
EXIT

4.5.2 Reset Trip: it resets the Trip partial kilometers and all the statistics of the Average Fitness page.

RESET TRIP
TRIP: 234 Km
RESET TRIP?
NO
YES

4.5.3 Motor Map: select the desired motor map.

Motor maps description:

- **Touring:** sweet and progressive without giving up the power that the Polini motor can offer, it favors a soft response and longer mileage. Recommended for all cyclists who live the bike as a way to discover the world.
- **Dynamic:** sporty character, great performance while maintaining a dynamic balance thanks to the all new PDC software. It guarantees a natural but at the same time reactive pedaling.
- **Race:** uncompromising, powerful and forceful like a real race mode to offer maximum performance. The set up was developed through the experience gained in the races of the World Series Championship and the Italian FMI Championship.
- **Custom 1/ Custom 2:** fully configurable by the cyclist through the Smartphone application.

DISPLAY MODE
TOURING
DYNAMIC
RACE
CUSTOM 1
CUSTOM 2

4.5.4 System: it includes a submenu that allows you to configure some settings. For a detailed description, refer to paragraph SYSTEM MENU SPECIFICATIONS.

SYSTEM
DISPLAY MODE
LANGUAGE
UNIT
BLUETOOTH
POD SETTING
EXIT

4.5.5 Diagnostic: it displays the last 8 alarms recorded, which can be reset at the exit of the page.

DIAGNOSTIC
ALARMS
1
2
3
4
5
6
7
8

RESET ALL?
NO
YES

4.5.6 Information: it contains information such as Display Firmware, Motor Firmware, serial number of the motor, serial number of the battery.

INFO
FW DISPLAY: CDC11-Polini-v1
FW Motor: EP-3 4.21
SN Motor: 955XXXXXX
SN Battery 1: -----

4.6 SYSTEM MENU SPECIFICATIONS

4.6.1 Display mode: select the graphic theme of the display, light, dark or variable according to the ambient light.

DISPLAY MODE
WHITE THEME
BLACK THEME
AMBIENTAL LIGHT

4.6.2 Language: select the language between Italian, English, Spanish, French, German

LANGUAGE:
ITALIAN
ENGLISH
SPANISH
FRENCH
DEUTSCHE

4.6.3 Unit of measurement: select the unit of measurement between metric and imperial.

UNIT

METRIC

IMPERIAL

4.6.4 Bluetooth: enable/disable Bluetooth and display the Mac Address of the motor for pairing with Smartphone.

BLUETOOTH

ON

OFF

MAC address:
0c:64:bd:92:1f:53

4.6.5 Pod: it allows you to reverse the function of the “Up” and “Down” buttons in order to mount the control panel on the left or right on the bike handlebar.

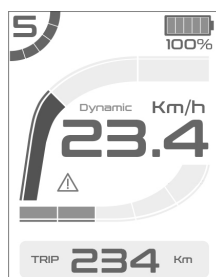
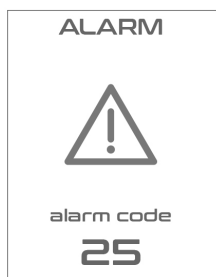
POD

LEFT

RIGHT

4.7 ALARMS

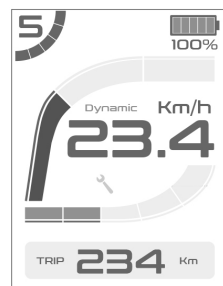
While using the bike, an anomaly is displayed with a warning indicating the relative error code. By pressing any button, the warning disappears, and the triangle icon will appear on the main screen. In the menu under “Diagnostic” you can see the last eight alarms detected and reset them. By resetting them, the triangle icon will also disappear from the main screen.



ALARM CODE	DESCRIPTION	CORRECTIVE ACTIONS
10 12 15 17	Motor anomaly	Turn the bike off and on again, if the problem persists, contact Support
11	Temporary motor anomaly	Wait for the motor to cool down, if the problem persists, contact Support
13	Battery overvoltage	Turn the bike off and on again, if the problem persists, contact Support
14	Battery undervoltage	Turn the bike off and on again, if the problem persists, contact Support
16 25	Cyclist torque anomaly detection	Turn the bike off and on again, if the problem persists, contact Support
18 22	Battery communication error	Check the connection between the battery and the motor
19	Sensor anomaly on wheel	Check the position of the magnet and speed sensor on the rear wheel. Check the sensor electrical connections
20 21 26	Communication error with the display	Check the connection cable between the display and the motor
23 24 31 32	Battery temperature anomaly	Cool down the battery, decrease the motor assistance level
27 28 29 30	Motor anomaly	Verify that the motor is updated to the latest firmware, if the problem persists contact assistance
98 99	Anomaly control panel	Turn it off and on again if the problem persists contact assistance

4.8 MANTEINANCE

The appearance of the “wrench” icon suggests a general check of the motor and greasing at a Dealer Point, which will make the necessary checks and reset the signal.



4.9 ASSIST-MODE ADJUSTMENT

The E-P3+ electric motor helps the cyclist's performance with 5 levels of assistance (it is possible to travel even without the motor assistance). The assistance levels

are adjusted through the controller on the handlebar and the selected level is active immediately. The selected level is visible at the top left of the display.

Activate assistance: The display indicates assistance level 0 (zero). Press the button (▲) on the controller; the motor activates the pedal assistance. In the display of the assistance level the first segment and the number 1 are lighted up.

Increase/Decrease the assistance: Press the buttons (▲ and ▼) on the controller to choose a higher or lower assistance level. In the display of the assistance level the next segment and the number related to the assistance are lighted up.

Pedaling without active assistance: Press the button (▼), until level 0 (zero) is displayed.

NOTE: the 5 levels of assistance with increasing help level are influenced by the type of mapping set: the 3 types of standard maps (Touring, Dynamic and Race) and the 2 customizable maps through the APP (Custom 1 and Custom 2). The mapping defines the type of motor response in relation to the thrust and riding style of the cyclist. Refer to paragraph *Motor Map* for mapping settings.

NOTE: when the battery has a low charge level, the assistance level is automatically reduced to preserve the battery itself; in this condition the higher levels will no longer be selectable.

4.10 THRUST ASSIST (WALK)

For starting or the thrust of the e-bike you may use the walk assist. Walk assist function can be activated for speed lower than 6 km/h and it can be used to walk the bicycle. When walking the bicycle, move close to it. The walk assist moves the bicycle.

ATTENTION: The walk assist moves the electric bike. Grab the handlebar and brake. Your strength and the walk assist may accelerate the bicycle significantly. Pedals may move and injury you during their movement! Do not use the walk assist for a long time.

Activate walk assistance

Press and hold the button (▲); walk assistance is activated and it moves the bicycle. In the main menu the “bike” symbol of the walk assist will be visible.

ATTENTION: level of assistance must not be zero.

Disable walk assistance

Release the button (▲); walk assistance is deactivated. In the main menu the “bike” symbol of walk assist will no longer be visible.

4.11 HEADLIGHTS

If the lights are installed on the bike, use the dedicated button to activate or deactivate them.

Switch on: briefly press the lights button; the symbol on the display indicates the lighting status.

Switching off: briefly press the lights button; the symbol on the display goes off.

5. Braking and safety systems

5.1. This bicycle model is equipped with a v-brake system or a hydraulic braking system.

WARNING: Before riding on a public road, we suggest you become familiar with the braking system. Uncontrolled use of brakes can cause serious risks to your safety. Remember that the left lever activates the front wheel brake while the right one the rear wheel brake.

5.2. As soon as you try to brake with one of the two brake levers, by means of special sensors the control device will stop the power supply to the motor, which will stop the pedal assist.

5.3. By releasing the brake levers, the control device will be ready to operate the motor again.

WARNING: Slow down in case of rain. Use the brake levers in moderation. Adherence of the tread to the road surface decreases in case of wet surfaces.

Do not touch the rotors immediately after use as they may reach high temperatures.
BURN HAZARD

6. Charge status indicator

6.1. After pushing the LED light button, the five LED lamps indicate the charge level. Each LED corresponds to 20% of capacity. You can check the current charging status on the LED lamp on the battery (state of charge). When charging the battery, the LED lamps are blinking.

LED	Charge Level
	0 - 20 %
	20 - 40 %
	40 - 60 %
	60 - 80 %
	80 - 100 %



WARNING: When the battery charge level is at 10%, the system manages independently the motor assistance to exploit the residual charge at the best. When the battery charge is not enough to give assistance to the motor, the system will stop independently the motor to grant the use of the light and of the display.

6.2. During normal operation, another indicator on the handlebar bend will provide the user with an instant indication of the energy status of the battery pack.

7. Switching off the electrical system

7.1. When the bicycle is not used, we recommend to always turn off the electrical system by pressing the appropriate on/off button.

NOTE: even if not used, the electric system left on will always consume a small amount of energy that will slowly discharge the battery.

8. Adjustment of saddle and seat post

8.1. Always check that the saddle is always firmly attached to its housing and that the latter is attached to the frame.

8.2. Once the seat post has been positioned in the frame housing, check that the minimum insertion sign is not visible.

9. Adjustment of the handlebar bend and stem

9.1. Always check that both the handlebar attachment and bend are firmly connected to each other and with the fork sleeve.

9.2. Once the handlebar stem has been positioned in the fork sleeve housing, check that the minimum insertion sign is not visible.

10. Chain

10.1. Check that the chain is always in tension.

10.2. Check the correct alignment between the sprocket unit (cassette) and the chain ring.

10.3. Lubricate PERIODICALLY

11. Wheels

11.1. Check that the wheels are securely fastened: the rear wheel to the frame, the front wheel to the fork.

NOTE: if equipped with quick release devices, check that the locking levers are tightly closed and facing the frame or fork shaft.

11.2. Check PERIODICALLY that the tyre pressure complies with the instructions given on the side.

WARNING: malfunctioning or misalignment of any part of the bicycle can lead to serious risks to your safety. Make sure you understand the operation of each component and, in case of doubt, get help from your dealer.

12. Pedals

12.1. Be sure to mount the left foot pedal on the left side and the right foot pedal on the right side: you can easily recognise them by looking at the printed letter on the pedal pin (L left, R right). **TIGHTEN CORRECTLY**

13. Battery

13.1. Electric pedal assisted bicycles are equipped with Lithium Ion. New generation Lithium Batteries are high capacity electric accumulators which supply a great deal of reversible energy although they do not weigh much. We chose these batteries also in order to respect the environment. Unlike other chemical compounds, Lithium does not pollute and is not dangerous for people who may accidentally come into contact with it.

13.2. At first use, we recommend you charge the battery immediately, via its dedicated battery charger, supplied with the bicycle. The first charge must take 10 hours (even if the charger should provide the indication of full charge earlier).

13.3. Unlike many Ni-Mh and Ni-Cd batteries, Lithium batteries are not affected by memory effect i.e. the loss of current intensity resulting from a previous poor use.

WARNING: Avoid keeping the battery low. Should the battery power charge be completely low, we recommend a full charge as soon as possible. Leaving a battery fully discharged even for a few days (5 or more days) may compromise its charge capacity and warranty over battery will be declined. Should you consume the charge completely during use, we recommend that you stop the power supply by relative button. Remember that the electric pedal assist bicycle works like any other cycle even when the battery is off.

13.4. The operating and charging temperature of the battery can affect the efficiency in the first case and the recharging time in the second. Should the battery be used at temperatures below 0°C, the power output can be reduced by up to 30% and charging time may even double. Maximum performance peak can be obtained at temperatures between 10°C and 30°C.

WARNING: Never place the battery near heat sources above 40°C.

14. Recharging the battery

CAUTION: ONLY USE THE CHARGER SUPPLIED WITH THE BICYCLE

WARNING: This appliance is not intended for use by people (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been under the supervision or training of the device by a person responsible for their safety. Make sure that children do not play with the device.

WARNING: The charging operation must only be carried out by adults and people aware of the fatalities caused by electricity.

WARNING: The battery charging procedure should only be performed as follows:

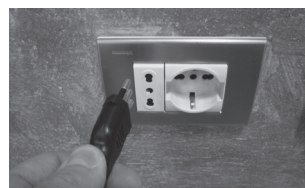
14.1. Insert the charger connector into the battery power outlet.



14.2. Plug the power cord connector into the battery charger.



14.3. Finally, plug in the power connector into an AC outlet: 50Hz 220V, homologated.



WARNING: Always make sure that you are in a safe condition when connecting the charger to the electrical power: no wet hands, insulated from the floor, not touching any other metal objects, etc.

14.4. If everything has been properly connected:

- a. A red light will light up on the charger to indicate that the charging phase has started.
- b. The end of the charge phase will be signalled by a green light.

WARNING: charging is a process that generates heat, both in the batteries and the charger. Avoid the latter being covered by objects that may inhibit normal heat dissipation. Only recharge the batteries in dry, well-ventilated areas with temperatures between 5°C and 30°C. Avoid enclosed spaces where combustible gases can be released, such as: kitchens, boiler areas and gas shunt boxes.

NOTE: If the charging operation is carried out correctly, after a few cycles, the battery efficiency may even improve. In any case, batteries are subject to wear: after several charge-discharge cycles, efficiency tends to diminish, thus reducing the distance with pedal assist.

14.5. Remove the battery charger by reversing the previous steps.

14.6. Turn on the bicycle with the display button on the handlebar.

14.7. Check the LED indicators on the handlebar display to confirm that the battery is charged.

15. Fully-charged battery

15.1. The battery is fully charged when the specific green light is displayed on the charger.

NOTE: The charging can take 5-6 hours, depending on the residual charge level in the battery.

15.2. Disconnect the battery charger plug from the 220V power socket.

15.3. Remove the second plug of the battery charger from the battery connector.

15.4. If removed from its housing, reposition the battery in the appropriate bicycle housing and ensure it is well placed on the bottom.

16. Removing and repositioning the battery

CAUTION: always turn the battery off before removing or installing it.

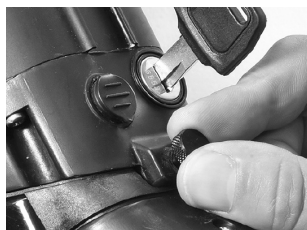
REMOVING THE BATTERY

1. Unscrew the security screw.
2. Insert the key in the cylinder on the battery holder.
3. To open it, turn the key while pulling the battery upwards.
4. Grab the upper side of the battery and remove it from the holder.



INSTALLING THE BATTERY

1. Insert the battery into the battery mount paying attention not to damage the rubber gasket.
2. First insert the upper part of the battery and then the bottom part of the electric connectors.
3. Press the battery until a click is heard to lock it. Battery may be assembled even if the key is not inserted.
4. Proceed carefully and without too much strength to avoid damaging the electric connectors.
5. Tighten the safety screw.
6. Remove the key and store it in a safe place.



DANGER: Do not ride the bicycle with the key inserted, to prevent the battery from falling out and avoid loosing the key.

CAUTION: before riding your bicycle, make sure that the battery is locked in place and charging port cap is closed.

CAUTION: before carrying the bicycle remove the battery and store it in a dry place. Protect the bicycle electric contacts from atmospheric agents. We recommend using the battery housing lid, item 955.520.009.

17. Observations

17.1. This battery model cannot be used with other models. Avoid using the same battery for different bicycles.

17.2. Even if compatible, never use other non-original batteries.

17.3. For safety reasons, the bicycle electrical system is equipped with a special fuse that protects all electronic instrumentation from any power surges.

ATTENTION: Do not open the battery to replace the fuse. This would entail cancellation of the warranty terms. Contact you dealer.

18. Disposing of the exhausted battery

A battery pack containing lithium batteries, at end-of-life should be disposed of in accordance with current regulations and cannot be disposed of as simple waste. The European Directive for this type of waste is Directive 2013/56/EU which states that the States adhering to this Convention must undertake to adopt “appropriate measures” in order that exhausted accumulators are collected separately for their possible recovery or disposal.



In any case, for more up-to-date information, please contact your local municipal office responsible for this.

19. Ordinary maintenance

19.1. Check all mechanical parts of the bicycle monthly.

19.2. Check saddle, seat post and handlebar bend safety:

- Check that all locking devices have not loosened;
- Clean the surface of the components only with specific detergents or with a dampened anti-scratch cloth.

19.3. Keep the chain clean and lubricate frequently with specific grease. Once lubricated, clean any excess grease with a cotton cloth.

19.4. Brake Check:

- Check that brakes work correctly.
- Check that there is no dirt between the brake pads and the wheel rim or any material which may affect the braking action.
- If the brake pads show signs of deterioration or wear, contact your dealer to replace them.
- Check that the electrical cables, leaving the levers, are not disconnected or damaged.
- Check that the motor stops when braking.
- Check that all screws of the braking system are firmly tight and fastened.

19.5. Check the condition of the wheels:

- Check that there is no excessive play and no sideways wobble between the wheel and the centre of rotation.
- Check that all spokes are well-tightened and that there are no broken ones.
- Check the wear of the wheel rim by means of the appropriate mark on the sides.
- Check that there are no signs of damage such as: cracks or deformations.
- Clean the wheel surface only with special detergents.
- Lubricate all mechanical parts with specific bicycle grease. Clean any excess.

19.6. Motor control:

- Check that there is no abnormal noise or power loss during use.
- Check that the electrical wires show no signs of deterioration.
- Check that the repositionable connector is well connected and free from damage.
- Clean the outside surface only with specific detergents and lubricate moving parts with specific grease.

19.7. Check that the control sensor, located behind the chain set, is well cleaned and aligned with the magnetic flange.

19.8. Gears maintenance:

- Check the gears work correctly. If necessary, ask your dealer to regulate the alignment with the sprocket unit.

WARNING: should the gears be set incorrectly, a rapid wear of all parts that affect the motion of the bike may occur.

- Check that the gear cable runs smoothly and without excessive friction inside its sleeve.
- Clean and lubricate only with special detergents.

19.9. Make sure that all repositionable electrical contacts are clean. Clean only with a dry cloth, brush or dehumidified compressed air.

19.10. Clean the frame only with special detergents.

19.11. The battery must not be left without charge. A low battery, which has not been recharged for a long time, can be irreparably damaged.

WARNING: Never use direct water jets to clean the bicycle. Water could damage the electronic components irreversibly.

WARNING: Never use unsuitable detergent and lubricant products.

NOTE: We recommend the dealer should take care of ordinary maintenance and provide advice to the user concerning which products to use for cleaning and greasing the cycle.

20. Periodic maintenance

SAFETY

Safety when handling the bicycle parts which may have been removed is an issue which concerns general safety rules at work, no liability can therefore be attributed to the manufacturer for damage to persons or things caused by handling parts of the bicycle. Any kind of intervention, including maintenance, must always be carried out after disconnecting the battery. Carefully follow the instructions given in the instruction manual during any intervention.

DANGER -BE CAREFUL OF PARTS WHICH ARE STILL HOT AFTER SWITCHING OFF THE CYCLE. USE ADEQUATE PROTECTION IN CASE OF ANY NECESSARY INTERVENTION.

DANGER - DISCONNECT THE BICYCLE FROM THE MAINS (IF CHARGING) AND DISCONNECT THE BATTERY FROM THE BICYCLE BEFORE CARRYING OUT ANY CLEANING OR MAINTENANCE OPERATION ON THE INTERNAL PARTS.

21. Extraordinary maintenance

Extraordinary maintenance is required in case of malfunction or breakage due to intense bicycle use, to unpredictable accidents or to inappropriate use.

Situations which might occur as and when are completely unpredictable and therefore it is not possible to describe any appropriate procedure.

If necessary, contact the Authorised Service Centre.

Preparing the bicycle for winter (or for a long period when the equipment will not be used)

The bicycle must be kept in a closed or otherwise sheltered place, away from the sun, possibly raised off the ground. Check the tyre pressure, disconnect the battery and charge it to 50% of her capacity every 2 months. Cover the bicycle with a canvas. Because of a normal self-discharge phenomenon, batteries tend to lose their stored energy, even if not used. In order to avoid full discharge, we recommend that you recharge it with the frequency mentioned above.

DEMOLITION

Bicycle materials require special disposal procedures. In case of demolition, refer to local regulations for scrapping the bicycle components. Never abandon the product in the environment as it is a source of long-term pollution: this could give rise to criminal court proceedings.

The user is entirely responsible should he/she wish to reuse parts of the bicycle either as mechanical fixtures or as raw material.

THE MANUFACTURING COMPANY IS NOT IN ANY WAY RESPONSIBLE FOR DAMAGE CAUSED BY THE BICYCLE IF NOT USED IN ITS INTEGRAL VERSION AND FOR THE USES SPECIFIED IN THIS MANUAL. THE MANUFACTURING COMPANY IS NOT IN ANY WAY RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR THINGS CAUSED BY THE PARTS OF THE BICYCLE WHICH HAVE BEEN RECOVERED AFTER ITS DEMOLITION.

22. Spare parts

22.1. We recommend that you only use original spare parts supplied by our manufacturer. In the event of a malfunction, you are invited to contact your dealer who will check for any damage or defect and supply the original spare part.

22.2. Any opening or modification of parts of the bicycle is prohibited in order to maintain the warranty terms. Please only and exclusively contact the dealer for any repairs or extraordinary maintenance.

23. Warranty terms

The purpose of this manual is to give you the information necessary for the proper use, adjustment and maintenance of your bike.

Please take the time to read these instructions carefully before riding and keep them for the life of the bike. They contain important safety and maintenance instructions.

It is the user's responsibility to read this manual before using the product.

Failure to follow these instructions exposes you to the risk of improper use of your bike, premature wear of certain components which could lead to a fall and/or an accident.

In the event that an original part proves to be defective in workmanship within its warranty period, we promise to replace it. The warranty period for e-bikes is as follows:

- ▶ Frames and forks : 5 years
- ▶ Electrical parts : 2 years with proper care and maintenance
- ▶ All other components: 2 years with proper care and maintenance

As for the battery, it is guaranteed against manufacturing defects for 6 months on the pieces consumables (cells) and 24 months on pieces electrical, under reserve of respect of the instructions for use and storage indicated below:

- ▶ Do not connect not the positive terminal directly to the terminal negative of this battery;

- ▶ Do not place not battery in a high temperature place, in an exposed environment in or near the sun of fire ;
- ▶ Do not place not battery in a humid environment Or immersed in a liquid;
- ▶ Do not disassemble not the battery pack without the guidance of a technician professional;
- ▶ Keep battery in a dry and temperate environment . Load battery all the month;
- ▶ Please load this battery with charger exclusive accompanied by your bike.
- ▶ Report your used battery at the house of your reseller.

This warranty does not include labor or transportation costs. The company assumes no liability for consequential or special damages. This warranty is applicable only to the original retail purchaser with proof of purchase validating any claim. This warranty is applicable only in case of defective parts and does not cover the effects of normal use, rental use, professional use, or damage caused by accidents, abuse, excessive loads, negligence, improper assembly, improper maintenance or addition objects inconsistent with normal use of the bicycle.

No bicycle is indestructible and no claim can be accepted for damage caused by improper use, rental use, professional use, use in competitions, stunts, ramp jumps, jumps or similar activities. Complaints must be made to the dealer. Your legal rights are not affected.

The company reserves the right to change or correct any details without notice. All information and details in this manual are correct at the time of printing.

He is forbidden to modify or tamper with the manual provided with the bike.

The bike is certified according to the standards of the law in force.

It is absolutely forbidden to change the parameters and specifications of the assembled electrical/mechanical components and standard functions of the motorcycle because this would compromise the proper operation of the vehicle and the safety of the user himself.

Should this happen, the user will be fully responsible for everything related to shaming.

24. MAINTENANCE BOOKLET

Owner		Date	Organised by
		km	
Interventions:			
		Stamp	Next service

Owner		Date	Organised by
		km	
Interventions:			
		Stamp	Next service

Owner		Date	Organised by
		km	
Interventions:			
		Stamp	Next service

Owner		Date	Organised by
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Interventions:			
		Stamp	Next service

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Interventions:			
		Stamp	Next service

Owner		Date	Organised by
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Interventions:			
		Stamp	Next service

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