

USER MANUAL

E-P3+

polini motori®

trasforma il meglio in massimo

Thank you for choosing an E-bike equipped with the Polini E-P3+ EVO 2 motor.
Always wear protective clothing when using the vehicle.
For video tutorials, instructions and news, please visit our website: www.poliniebike.com.

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1.0- IMPORTANT NOTICE

For safety reasons, carefully read this manual before use and follow the instructions for correct operation.

- Contact the place of purchase or a bicycle dealer for information on the installation and adjustment of products not covered in this manual.
- This product must not be disassembled or modified by unqualified personnel.
- Use the product in compliance with all applicable local laws and regulations.

⚠**WARNING** - The use of NON-Polini aftermarket batteries, chargers or other accessories may impair the correct operation of the system and may cause damage. It will also void the original warranty.

1.1- IMPORTANT SAFETY INFORMATION

⚠ **DANGER** - Handling the battery

- Do not deform, modify or disassemble the battery. Do not perform welding directly on the battery. Failure to observe these instructions may result in leakage, overheating, explosion or fire.
- Do not leave the battery near heat sources such as radiators. Do not heat the battery or throw it into a fire. Failure to observe these instructions may result in explosion or fire.
- Do not expose the battery to strong impacts and do not throw it. Failure to observe these instructions may result in explosion or fire.
- Do not immerse the battery in fresh or salt water and prevent the connectors from getting wet. Failure to observe these instructions may result in overheating, explosion or fire.
- To charge the battery, use the specific Polini charger and comply with the specified charging conditions. Failure to observe these instructions may result in overheating, explosion or fire.
- If any liquid leaking from the battery comes into contact with the eyes, immediately rinse the affected area with water without rubbing the eyes and seek medical attention. Failure to do so may result in eye injuries.
- Do not charge the battery in places with high humidity or outdoors. This could cause electric shock.
- Do not insert or remove the charging plug when it is wet. Failure to observe this instruction may result in electric shock.
- If the battery is not fully charged after 6 hours of charging, unplug the charger from the socket to stop charging and contact your dealer. Failure to observe this instruction may result in overheating, explosion or fire.
- If scratches or other external damage are found, do not use the battery. Failure to do so may result in explosion, overheating or other problems.
- The battery operating temperature ranges are given below. Do not use the battery at temperatures outside the specified ranges. If the battery is used or stored at temperatures outside the specified ranges, fire, injury or malfunction may occur.
  1. During use: –20 °C /+ 60 °C
  2. During charging: 0 °C /+ 45 °C

Safety while riding

To prevent accidents, do not pay excessive attention to the display while the bicycle is moving.

Safe use of the product

Always remove the battery before wiring or connecting components to the bicycle. Failure to do so may result in electric shock.

⚠ **WARNING**

Safety while riding

Follow the instructions in the bicycle owner's manual.

Safe use of the product

- Periodically check the charger, especially the cable, plug and housing, for any damage. If the charger or adapter is damaged, it must not be used until it has been repaired.
- This device must not be used by persons (including children) with reduced physical, sensory or mental capabilities, or with insufficient experience or knowledge, unless they have been instructed in the use of the device by a person responsible for their safety or are supervised during use.
- Children must never play near this product.
- For product installation and adjustment, consult a dealer.
- Do not turn the bicycle upside down by placing it on the ground. The display or shift switch may be damaged.
- Handle the products with care and do not expose them to excessive force or impact.

⚠ **WARNING - Do not use high-pressure water jets or steam jets to clean the motor, display or battery, as they may cause damage or malfunctions. If this occurs, immediately contact an authorised dealer. Do not use compressed air for drying.**

Handling the battery

- Do not leave the battery in places exposed to direct sunlight, inside a vehicle on a hot day or in other hot locations. This could cause leakage.
- If internal liquids should come into contact with your skin or clothing, rinse them immediately with water. The liquids may cause skin injuries.
- Store the battery in a safe place, out of the reach of children and pets.
- In the event of malfunctions or other problems, contact your dealer.
- Never attempt to modify the system, as this could cause malfunctions.
- When the battery is removed, the bicycle operates like a normal bicycle. However, if the light is connected to the motor, it will not switch on.
- If the battery is charged while installed on the bicycle, observe the following:

- During charging, make sure there is no water on the charging socket or plug.
- Before charging, make sure that the battery is securely locked onto the mount.
- Do not remove the battery from the mount during charging.
- Do not use the battery while the charger is connected.
- When not charging, always close the charging socket cover on the battery.

- If transporting the E-bike in a car, remove the battery from the bicycle and place it securely and stably inside the vehicle.
- Before connecting the battery, make sure that there is no water or dirt accumulated on the connector to which the battery will be connected.
- The use of an original Polini battery is recommended.
- Keep out of reach of children
- Always remove the battery before cleaning the E-bike.

2.0- POLINI E-P3+ EVO 2 SYSTEM FEATURES

The following conditions must be met in order to use the E-P3+ EVO 2 drive system:

- The battery is sufficiently charged, installed and switched on.
- The speed sensor is correctly connected to the bottom bracket and the magnet is correctly positioned.

When a speed of 25 km/h is reached, the drive system automatically disengages. The system re-engages when pedalling resumes and the speed falls below 25 km/h.
The motor switches off when pedalling stops. It starts again when pedalling resumes. The motor assists and harmonises with the cyclist's effort.

2.1- SWITCHING ON THE E-P3+ EVO 2 SYSTEM

1. Switch on the battery using the ON/OFF button
2. Select the preferred assistance mode from 1 to 5 using the arrow buttons.
3. The motor will start operating when the pedals begin to rotate.
4. Change the desired assistance mode (see Section 5.0)



2.2- SWITCHING OFF THE E-P3+ EVO 2 SYSTEM

The E-P3+ system can be switched off in the following ways:

- Display Menu: select POWER OFF from the General Menu;
- Battery Button: press and hold the button (the display will switch off immediately afterwards).

3.0- BATTERY

3.1- TECHNICAL DATA: Rechargeable lithium-ion battery

Nominal voltage:	36 V
Nominal capacity:	13.8Ah
Energy:	500 Wh
Operating temperature:	Charging: 0°+45°C Discharging: -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**

To charge the battery, use the specific Polini charger and comply with the specified charging conditions. Failure to observe these instructions may result in overheating, explosion or fire.

⚠ **WARNING**

- When disconnecting the charger's power plug from the socket or the charging plug from the battery, do not pull on the cable.
- When charging the battery while it is installed on the bicycle, make sure not to trip over the charging cable and prevent anything from becoming caught in it. Failure to do so may result in injury or the bicycle falling, causing damage to components.
- If the bicycle is stored for an extended period immediately after purchase, the battery must be charged before using the bicycle again.

3.2- CHARGE STATUS INDICATION

After pressing the power button, the five LEDs indicate the battery charge status. Each LED corresponds to approximately 20% capacity.
The charging progress can be checked using the LED light on the battery (charge status indication). During charging, the battery LEDs flash sequentially.

LED	Charge status
▌	0 - 20 %
▌▌	20 - 40 %
▌▌▌	40 - 60 %
▌▌▌▌	60 - 80 %
▌▌▌▌▌	80 -100 %



⚠ **AVVERTENZA**

When the battery level reaches 10% remaining capacity, the system will automatically manage motor assistance in order to make the best possible use of the remaining charge. When the battery charge is no longer sufficient to provide motor assistance, the system will automatically disable the motor in order to ensure that any lights and the display can continue to operate.

3.3- BATTERY REMOVAL AND INSTALLATION

➞ **! WARNING** - Always switch off the battery before removing or installing it.

BATTERY REMOVAL

1. Unscrew the safety screw



2. Insert the key into the cylinder on the battery mount.
3. Turn the key to unlock while pulling the battery upwards.
4. Grip the upper part of the battery and detach it from the mount.



BATTERY INSTALLATION

1. Insert the battery into the compartment, taking care not to damage the rubber seals.
2. Insert the upper part of the battery first, followed by the lower part containing the electrical connections.
3. Press the battery until you hear the lock click into place. The battery can also be installed without the key inserted.
4. Perform this operation carefully and without excessive force to avoid damaging the electrical connections.



5. Tighten the safety screw.
6. Remove the key and store it in a safe place.



⚠ **DANGER** - The bicycle MUST NOT be used with the key inserted, in order to prevent the battery from falling and to avoid losing the key.
➞ **WARNING** - Before using the bicycle, make sure that the battery is locked in place and that the charging socket cover is closed.
➞ **WARNING** - When transporting the bicycle, remove the battery and store it in a dry place.

3.4- BATTERY KEY

➞ **WARNING** - In the event of lost keys, contact your dealer, who will arrange for the complete replacement of the key lock assembly.

3.5- BATTERY CLEANING

- Do not use thinners or other solvents to clean the products. These substances may damage the surfaces.

- When cleaning the battery and plastic covers, use a well-wrung damp cloth.
- Batteries are not covered against wear or deterioration resulting from normal use.
- The battery is designed to be completely waterproof and suitable for use in rainy conditions when correctly installed on the bicycle. The battery must never come into contact with water when it is not installed, because the electrical contacts are not protected in this condition.
- Do not clean the battery with high-pressure water jets. If water penetrates the components, malfunctions may occur.
- Always remove the battery before cleaning the E-bike.

3.6- BATTERY CHARGING

The battery is designed and intended exclusively for use with the Polini E-P3+ EVO 2 system. The battery can be charged at any time up to a 96% charge level; above this threshold, charging will not start. However, the battery must be fully charged in the following circumstances. In these cases, always use the dedicated battery charger:

- When purchased, the battery is not fully charged. Fully charge the battery before riding. If the battery is completely discharged, it must be recharged as soon as possible. If it is not recharged, the battery may deteriorate prematurely.
- If the bicycle is not expected to be used for a long period, store it with approximately 70% remaining battery capacity. Also avoid completely discharging the battery by charging it for 2 hours every 3 months.

Charging the battery separately

1. Switch off the battery.
2. Insert the charger's power plug into the electrical socket.
3. Insert the charging plug into the battery charging socket. Charge the battery on a flat surface and indoors.



Charging the battery while installed on the bicycle

1. Switch off the battery.
2. Secure the bicycle so that it cannot fall during charging.
3. Insert the charger's power plug into the electrical socket.
4. Insert the charging plug into the charging socket on the battery.

NOTE: A completely discharged battery requires approximately 4–5 hours to fully recharge.



⚠ **WARNING** - Charge the battery only in compliance with the safety warnings.

➞ **WARNING** - In particular, prevent dirt from accumulating on the charger connections and contacts.

➞ **WARNING** - Any interruption of the charging operation will not damage the battery.

➞ **WARNING** - After each charging operation, remember to close the rubber cover on the battery charging socket.

3.7- CHARGER LED INFORMATION

Charger connected to the mains and battery charging: Power LED RED / Charge LED RED



Part numbers: 955.830.057 3A / 955.830.060 4A

Charger connected to the mains and battery fully charged (charging complete): Power LED RED / Charge LED GREEN
Charging time for a completely discharged battery is approximately 5 hours.



3.8- DUAL BATTERY

For this system, use exclusively two Polini E-P3+ EVO 2 batteries, part no. 955.830.058.
Switch on both batteries to activate the dual-battery system. The system will manage the use of the available battery energy supplied to the E-P3+ EVO 2 motor. The two batteries do not need to have the same charge level. The system will use the energy available from the battery with the higher

charge level first and will then use both batteries in parallel, automatically optimising energy consumption for the motor.
The bicycle can also be used with only one battery installed, either the upper or lower battery. The batteries must be charged separately. Therefore, two chargers are required if both batteries are to be charged simultaneously.

4.0- DISPLAY TFT

⚠ **DANGER** - Using the display while pedalling may distract the cyclist and cause accidents. Always comply with road traffic regulations.

4.1 BIKE LOCK ACTIVATION

AVAILABLE ONLY FOR EVO2 MOTORS AND LATER
The "Bike Lock" function allows you to protect your E-bike against unauthorised use.

System requirements
This function is compatible exclusively with EVO2 motors equipped with the following firmware versions or later:
MOTOR: firmware MTI 1.00.35 or later
TFT DISPLAY: firmware 5.00.21 or later
INTEGRATED DISPLAY: firmware 6.00.07 or later

Note: Make sure you have downloaded the official app, registered an account and logged in using your credentials.

For instructions on how to activate "Bike Lock", refer to the Polini E-bike App Manual.

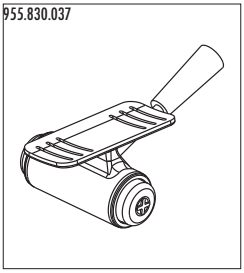
4.2- BUTTON FUNCTIONS

TWO-BUTTON SWITCH CONTROLLER
(955.830.036 MTB and 955.830.037 Road)

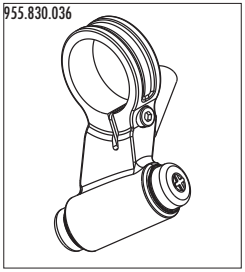
! **CAUTION**: To use the two-button controllers, display firmware version 1.01.14 or later must be installed. To update the display, the motor must be updated to version 4.61 or later, available at: https://www.poliniebike.com/polini-e-p3-5/

! **CAUTION**: The button control unit must be installed with the system switched off.

955.830.037



955.830.036



+ Button:
- Short press: increases the assistance level.
- Long press: activates the Walk function.

- Button:
- Short press: decreases the assistance level.
- Long press: switches the lights on/off.

+ and – buttons simultaneously:
- Short press: changes the display page (Main screen, Fitness, Average, etc.)
- Long press: displays the Menu page, only when the bicycle is stationary.

In the Menu pages:
+ button: scrolls down through the items.
- button: scrolls up through the items.

+ and – buttons simultaneously::
- Short press: confirms the selected option.
- Long press: exits the Menu page.

For bicycles equipped with the 880 Wh battery, the + button switches the system on.



THREE-BUTTON SWITCH CONTROLLER
(955.830.056 mtb)



Display pages:
+ button:
- Short press: increases the assistance level.
- Long press: WALK function (this function is activated only when the assistance level is set from 1 to 5).

- button:
- Short press: decreases the assistance level.
- Long press: switches the lights on/off.

Multifunction button (centre button):
- Short press: changes the display page (main screen, battery screen, Fitness, Average).

- Long press: opens the Menu page, only when the bicycle is stationary.

For Menu pages, refer to the four-button control.
In the Menu pages:

- Up and Down buttons: Select the desired option.

Multifunction button:

- Short press: confirms the selected option.
- Long press: quick exit from the Menu pages.

With batteries configured for remote power-on, the multifunction button switches the bicycle on.

Compatible with:

- **Displays from V2 and later (V1 is NOT compatible. To identify the version, check the text on the back of the display).**
- **Microdisplay**

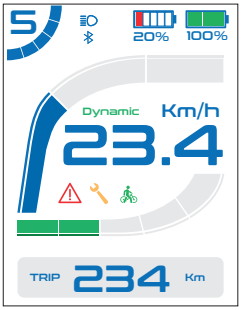
POD/MOTOR PAIRING
AVAILABLE ONLY FOR EVO2 MOTORS AND LATER
955.830.061 MTB - 955.830.063 ROAD

To pair the Bluetooth button controls, connect to the motor using the app. For instructions on how to pair the controls with the motor via the app, refer to the Polini E-bike App Manual.

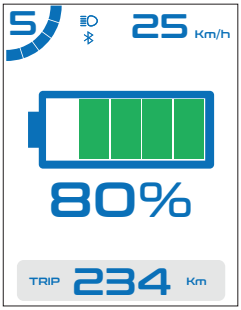
4.3- PAGES

Starting from the home page (with partial Trip kilometres), pressing the multifunction button (Polini logo) allows you to cycle through the following pages:

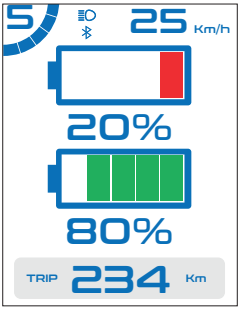
Home page with partial Trip kilometres

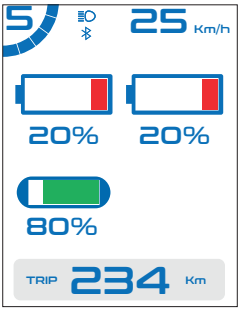


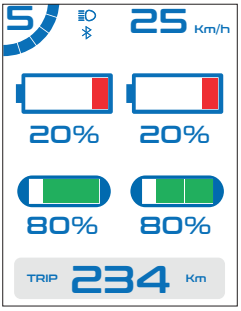
Battery page

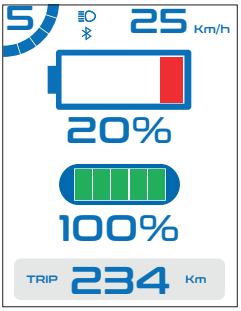


Secondary battery page (if present)

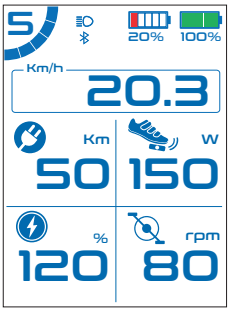




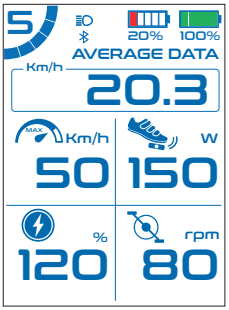




Fitness page (displays real-time values)

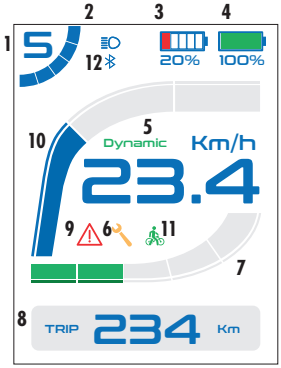


Fitness Average page (displays the average values recorded since the Trip was last reset). To reset the page values, press and hold the Down button Œ or use the relevant option in the Menu.



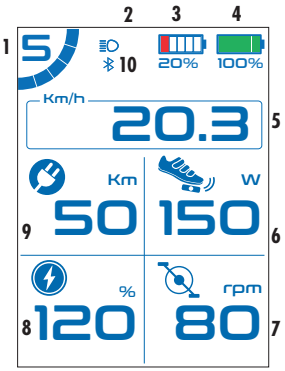
PAGES IN DETAIL

Home page with partial Trip kilometres



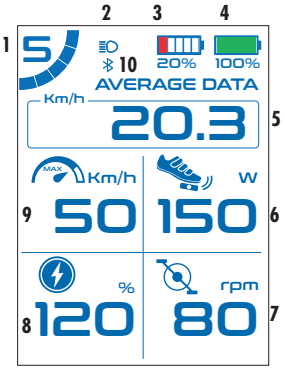
1. Assistance level
2. Lights
3. Battery 2
4. Battery 1
5. Motor map
6. Maintenance
7. Motor power %
8. Partial Trip
9. Fault
10. Speed
11. Walk
12. Bluetooth

Fitness page – real-time values



1. Assistance level
2. Lights
3. Battery 2
4. Battery 1
5. Speed
6. Pedalling power
7. Pedalling cadence
8. Motor power
9. Remaining kilometres
10. Bluetooth

Fitness Average page – average values

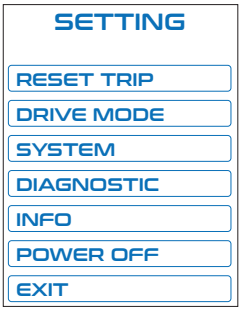


1. Assistance level
2. Lights
3. Battery 2
4. Battery 1
5. Average speed
6. Average pedalling power
7. Average pedalling cadence
8. Average motor power
9. Maximum speed reached
10. Bluetooth

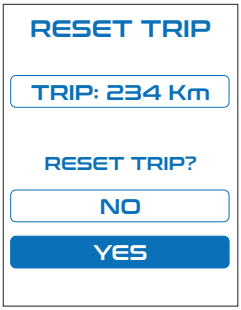
4.4- MENU

Press and hold the multifunction button (Polini logo) for more than 1 second to access the Menu. The bicycle must be stationary.

General Menu:



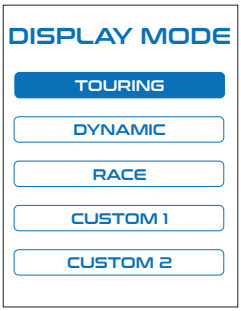
Reset Trip: resets the partial Trip kilometres and all statistics on the Fitness Average page.



Motor Mapping: selects the desired motor map

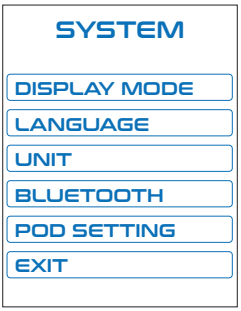
Motor map descriptions:

- **Touring:** smooth and progressive. Rather than focusing on the maximum power the motor can provide, it favours a smooth response and greater mileage. Recommended for cyclists who see the bicycle as a means of exploring the world.
- **Dynamic:** sporty character and high performance while maintaining a dynamic balance thanks to the latest PDC software. It provides a natural yet responsive pedalling experience.
- **Race:** without compromises, powerful and aggressive, like a true racing mode, providing maximum performance. The setup has been developed through experience gained in World Series and Italian FMI Championship races.
- **Custom 1/ Custom 2:** fully configurable by the cyclist through the smartphone application.

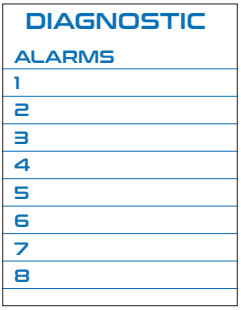


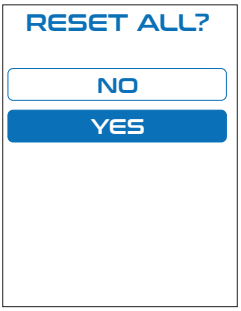
System: contains a submenu for configuring certain settings. For a detailed description, refer to Section

4.5- SYSTEM MENU SPECIFICATIONS



Diagnostics: displays the last 8 recorded alarms, which can be reset when exiting the page.

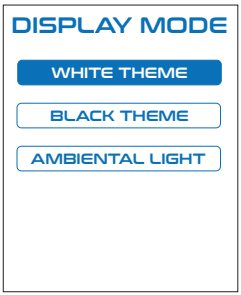




Information: contains information such as Display Firmware, Motor Firmware, motor serial number and battery serial numbers.



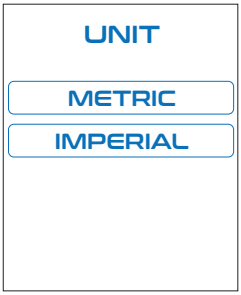
Display Mode: selects the display graphic theme: light, dark or variable according to ambient light.



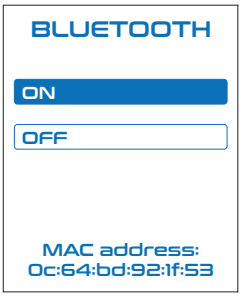
Language: selects the language from Italian, English, Spanish, French and German



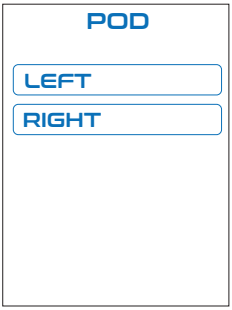
Measurement Units: selects metric or imperial units.



Bluetooth: enables/disables Bluetooth and displays the motor MAC address for pairing with a smartphone.



POD: allows the operation of the "Up" and "Down" buttons to be reversed so that the button control unit can be mounted on either the left or right side of the bicycle handlebar.

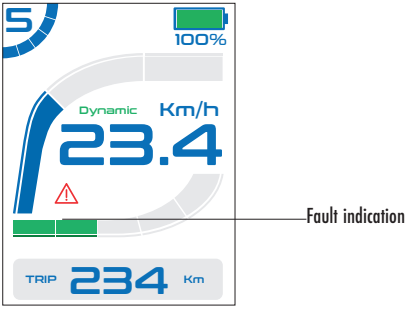


4.6- WARNINGS

During bicycle use, a fault is indicated by a warning showing the relevant error code.



Pressing any button makes the warning disappear, and a triangle icon will appear on the main screen.

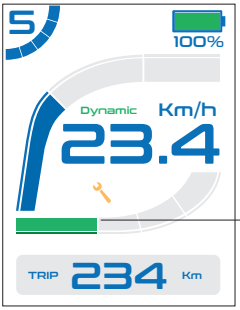


In the Menu, under Diagnostics, it is possible to view the last eight detected alarms and reset them.
When they are reset, the triangle icon will also disappear from the main screen.

Warning cod	Description	Corrective action
10 12 15 17	Motor fault	Switch the bicycle off and on again. If the problem persists, contact Customer Service.
11	Temporary motor fault	Wait for the motor to cool down. If the problem persists, contact Customer Service.
13	Battery overvoltage	Switch the bicycle off and on again. If the problem persists, contact Customer Service.
14	Battery undervoltage	Switch the bicycle off and on again. If the problem persists, contact Customer Service.
16 25 34	Cyclist torque detection fault	Switch the bicycle off and on again. If the problem persists, contact Customer Service.
35	* Do not apply pressure to the pedals when switching the bicycle on.	
18 22	Battery communication error	Check the connection between the battery and the motor.
19	Wheel sensor fault	Check the position of the magnet and speed sensor on the rear wheel. Check the sensor electrical connections.
20 21 26	Display communication error	Check the connection cable between the display and the motor.
23 24 31 32	Battery temperature	Wait for the battery to cool down or reduce the assistance level.
33	Firmware update required	Update the display firmware using the Polini Updater program.
27 28 29 30	Motor fault	Make sure that the motor has the latest firmware installed. If the problem persists, contact Customer Service.
98 99	Switch controller fault	Switch the system off and on again. If the problem persists, contact Customer Service.
	*Do not press and hold the handlebar buttons when switching on.	

4.7- MAINTENANCE

The appearance of the "wrench" icon indicates that a general inspection and lubrication of the motor should be carried out at a Polini Service Point. The Service Point will perform the necessary checks and reset the warning.



Maintenance reminder: add grease every 5,000 km.

4.8- MICRODISPLAY

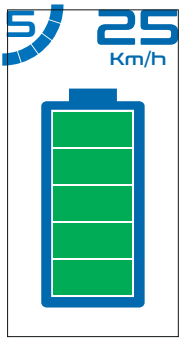
The Polini integrated display has been designed to be fully integrated into the E-bike frame.
With its compact dimensions, the 1.45-inch high-brightness, high-resolution colour TFT screen provides easy viewing of information.
The main functions can be displayed and accessed using the dedicated switch controller.



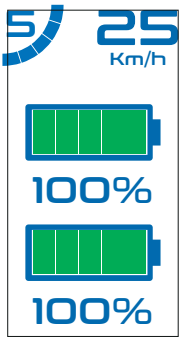
1. Lights
2. Assistance level
3. Heart-rate monitoring
4. Fault
5. Motor maps
6. Main battery
7. Walk assist















4.9- RANGE

Using a sophisticated self-adaptive algorithm that takes into account the instantaneous riding speed and the current drawn by the motor, the system estimates the remaining kilometres before the battery is completely discharged, (taking the battery charge level into account).
Several parameters can affect this calculation:
- Bicycle type
- Tyres type
- Bicycle weight
- Rider weight
- Route type: flat, hilly or mountainousa
- Temperature
- Average riding speed
- Wind
- Use of lights

The optimum range with the 500 Wh battery has been estimated at 220 km with a road bike, a 65 kg rider, at a speed of 25 km/h on a flat route, an outside temperature of 20 °C and light wind.
- The calculated data are estimated and approximate values and may differ from the actual result. Exact values vary according to the type of use and the external factors listed above.
- The calculated values apply to new batteries. (Battery capacity decreases over time, affecting range, as occurs with all lithium-ion batteries due to ageing and use)

5.0- ASSISTANCE LEVEL ADJUSTMENT

The E-P3+ EVO 2 electric motor assists the cyclist's performance with 5 assistance levels. (It is also possible to pedal without motor assistance). The assistance levels are adjusted using the handlebar controller, and the selected level is activated immediately. The selected level is shown in the upper left corner of the display.
Activating assistance - The display shows assistance level 0 (zero). Press the button (symbol ↑) on the controller; the motor activates pedal assistance. The first segment and number 1 light up in the assistance-level display.
Increasing/decreasing assistance - Press the buttons (↑; ↓) on the controller to select a higher or lower assistance level. The next segment and the corresponding assistance number light up in the assistance-level display.
Pedalling without assistance - Press the button (↓), until level 0 (zero) is displayed.
NOTA: The 5 assistance levels, with progressively increasing assistance, are affected by the selected motor mapping: the 3 standard maps (Touring, Dynamic and Race) and the 2 maps that can be customised through the APP (Custom 1 and Custom 2). The mapping defines the type of motor response in relation to the cyclist's pedalling force and riding style. Refer to Section 4.0 for mapping settings.
NOTA: When the battery has a low charge level, the assistance level is automatically reduced to preserve the battery. In this condition, the higher assistance levels can no longer be selected.

5.1- SUGGESTIONS TO OPTIMISING RANGE

- **Pedalling:** slow pedalling consumes a lot of energy. Maintaining a pedalling cadence above 70 rpm helps optimise efficiency.
- **Riding style:** frequent braking and starting result in higher consumption. Where possible, maintain a constant speed.
- **Gears:** use low gears when starting and climbing, while a higher gear is preferable only when the route and cadence are suitable.
- **Tyre pressure:** range can be improved by keeping the tyres at the maximum permitted pressure.
- **Temperature and battery:** battery performance decreases as the temperature falls because electrical resistance increases. Therefore, range is reduced in winter.
- **Weight:** minimise the weight of the bicycle and luggage.

NOTE: If the battery charge level is low, the motor will not be able to deliver its full performance. In this case, to extend battery life, we recommend setting a low pedal-assistance level.

5.2- WALK ASSIST

Walk assist can be used when starting or pushing the E-bike.
Walk assist can be activated at speeds below 6 km/h and can be used to assist in pushing the bicycle. Push the bicycle while walking alongside it. Walk assist moves the bicycle.

⚠ **CAUTION!** Walk assist moves the electric bicycle. Hold the handlebars and apply the brakes. Your own force combined with walk assist could considerably accelerate the bicycle. The pedals may rotate and could cause injury while the bicycle is moving. Do not use walk assist for extended periods.

Activating walk assist

Press and hold the **,** button with the assistance level set above 0. Walk assist is activated and moves the bicycle; The "bicycle" walk-assist symbol will be visible on the main menu.

⚠ **CAUTION:** The assistance level must not be set to zero.

Deactivating walk assist

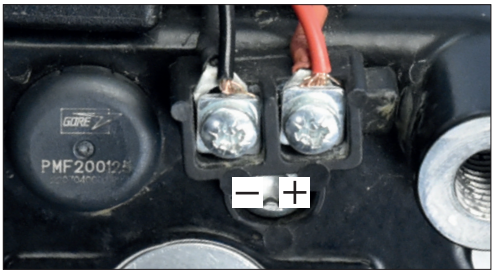
Release the button. Walk assist is deactivated. The "bicycle" walk-assist symbol will no longer be visible on the main menu.

6.0- LIGHTS – INSTALLATION OF ADDITIONAL LIGHTS

If lights are installed on the bicycle, use the dedicated function to switch them on or off.
Switching on: briefly press the light function (minus button); the symbol on the display indicates the lighting status.
Switching off: briefly press the light function (minus button); the symbol on the display disappears.

Installation of additional lights

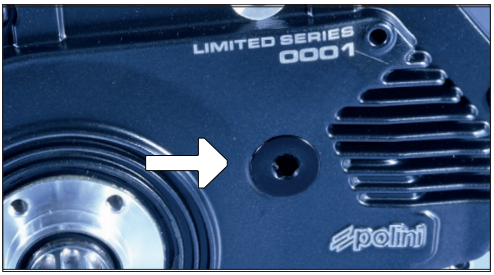
A terminal block for connecting the lights is installed on the right-hand side of the motor housing. The lights must have the following characteristics:
1. Lamp voltage: 6 VDC or 12 VDC. (The voltage is selected using dedicated software available for download from the website)
2. The combined power of the lamps must not exceed 9 W when 6 VDC is selected, or 18 W when the lights are 12 VDC.
3. The terminal block has two cable connection points identified as + (red) and – (black). Connect the motor + to the front light + and rear light +. Connect the motor – to the front light – and rear light –. Secure the 3 + 3 cables between the two metal plates on the terminal block and tighten them using the appropriate screws.



7.0- MAINTENANCE – TROUBLESHOOTING

Lubricate the motor gear every 5000 km to minimise noise.

- Remove the chainring carrier if necessary
- Unscrew the grease reservoir cap and insert approximately 2–3 grams of the specific Polini grease, part no. 955.435.001
- Reassemble everything, taking care to correctly tighten the chainring carrier screws (torque 5–6 Nm).



The display does not show the speed

Check the distance between the speed sensor and the magnet (maximum 15 mm) at the position indicated by the line. If the distance is insufficient or excessive, or if the speed sensor is not correctly connected, the E-P3+ EVO 2 motor operates in emergency mode. In this case, loosen the magnet screw and secure the magnet to the spoke so that it is at the correct distance from the speed sensor mark. If no speed is displayed on the speedometer after carrying out this operation, contact an authorized bicycle dealer.

7.1- MOTOR CLEANING

For cleaning any part of the E-P3+ EVO 2 system, the use of pressure washers, high-pressure water jets or immersion in water is NOT permitted, specifically for the motor unit.
After washing, carefully dry all parts to prevent future damage or malfunctions. In the event of problems caused by water infiltration, immediately contact an authorized dealer.

8.0- BOTTLE CAGE MOUNTING

Insert the bottle cage supports into the designated mounting points on the battery.



Place the bottle cage on the supports and, using the supplied key, tighten the grub screw until the support locking tabs are secured to the battery and the bottle cage can no longer slide along the guide.



For greater safety, gently tighten the upper grub screw. The bottle cage support is a patented Polini product.

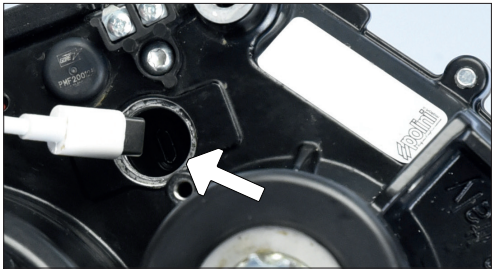


9.0- FIRMWARE UPDATE

An Internet connection and a cable with a USB-C connector are required to update the firmware. Remove the plastic cover, remove the aluminium cap and connect the cable to the socket in the correct orientation.







Updated firmware is available at www.poliniebike.com

10.0- DISPOSAL

According to European Directive 2012/19/EU (waste electrical and electronic equipment) and European Directive 2006/66/EC (defective or used batteries), these products must be collected separately and recycled. Old machines, gear components and packaging are made from recyclable materials. The owner is required to dispose of them correctly and in accordance with applicable laws and in an environmentally compatible manner.

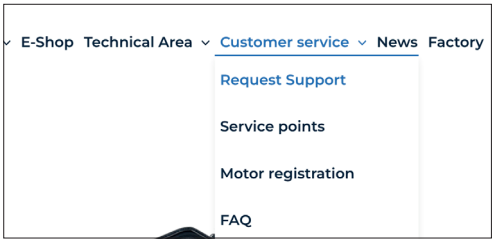
Disposal information for countries outside the European Union



This symbol is valid only within the European Union. For disposal of used batteries, comply with local regulations. If in doubt, contact the point of purchase or a bicycle dealer.

11.0- REQUEST ASSISTANCE

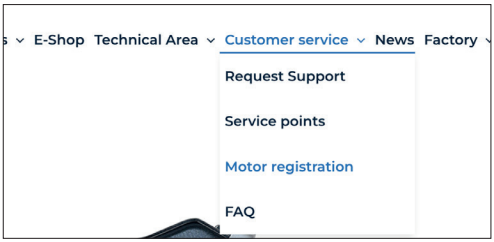
AREA RESERVED EXCLUSIVELY FOR DEALERS WITH A VAT NUMBER



12.0- PRODUCT REGISTRATION

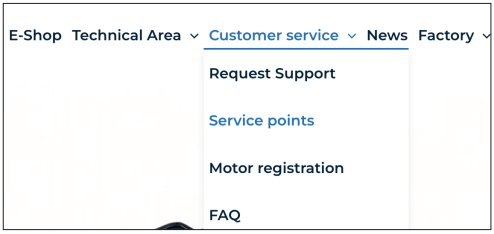
The E-P3+ EVO 2 motor must be registered through the website www.poliniebike.com Go to the Customer Service section.

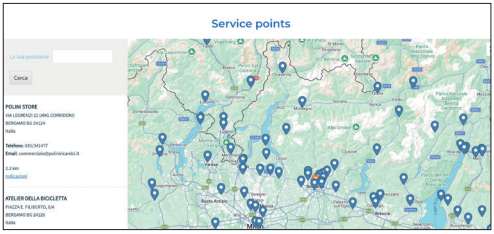
Once you have entered the “Motor Registration section”, follow the instructions. It is recommended that you have the motor serial number available. This is located on the lower part of the casings. (For models fitted with the lower protective guard, this will need to be removed).



13.0- SERVICE CENTRES

To find the nearest service centre, visit www.poliniebike.com, in the Customer Service section, click on Service Centres.





CUSTOMER SERVICE E-P3+ EVO 2:

Italia – ebike@polini.com , +39 035/2275111
Francia – **Belgio** – ebike-fr@polini.com , +33 617986264
Germania – **Austria** – **Svizzera** – ebike-de@polini.com
Spagna – ebike-es@polini.com

- Use only original Polini Motori spare parts.
- The manufacturer reserves the right to make any changes it deems appropriate to improve the characteristics and performance of its products.

DICHIARAZIONE CE DI CONFORMITA'

ai sensi del Allegato II parte 1 sezione A della Direttiva Macchine 2006/42/CEE recepita a livello nazionale dal Decreto Legislativo 27 gennaio 2010 n.17

IL FABBRICANTE: Polini Motori S.p.A.
SEDE LEGALE ED OPERATIVA : Via Piave, 30 – 24022 Alzano Lombardo (BG)

DICHIARA:

Che il sistema per E-Bike denominato **Polini E-P3 / E-P3+ / E-P3+ EVO / E-P3+ EVO2 (955.002.001/002/003/004/005/006/007/008/009/012/013/020/021/022/026/027/028/029)** costruito presso la propria sede operativa è composto da seguenti componenti:

MOTORE

è conforme ai requisiti essenziali di sicurezza e di salute relativi alla progettazione e alla costruzione della macchina e dei componenti di sicurezza ai sensi dell'Allegato I – Direttiva Macchine 2006/42/CE recepita a livello nazionale dal Decreto Legislativo 27 gennaio 2010 n.17

LE SEGUENTI NORME ARMONIZZATE SONO STATE UTILIZZATE PER LA CORRETTA IMPLEMENTAZIONE DEI REQUISITI ESSENZIALI DI SICUREZZA E DI SALUTE DELL'ALLEGATO I DIRETTIVA MACCHINE 2006/42/CE

Norma	*Descrizione*
UNI EN ISO 12100:2010	*"Sicurezza del macchinario - Principi generali di progettazione - Valutazione del rischio e riduzione del rischio"*
CEI EN 60335-1:2013	*Sicurezza degli apparecchi elettrici d'uso domestico e similare - Sicurezza - Parte 1: Norme generali*
CEI EN 60529: 2014 (CEI 70-1)	*Gradi di protezione degli involucri apparecchiature elettriche "CODICE IP55"*
UNI EN 15194 :2017	*Biciclette elettriche a pedalata assistita - Biciclette EPAC*
EN ISO 13849-1:2015	*Sicurezza funzionale-Safety integrated*

LE DIRETTIVE EUROPEE E LEGGI ITALIANE CHE SONO STATE UTILIZZATE

DIRETTIVE EUROPEE	LEGGI ITALIANE
2006/42 CE (Direttiva Macchine)	D.Lgs.17/2010 (Direttiva Macchine)
2014/30/UE (EMC)	D.Lgs. 80/2016 (Compatibilità Elettromagnetica)

Persona autorizzata a costituire il Fascicolo Tecnico

Nome: **Denis**
Cognome: **Polini**
Indirizzo: **Via Piave, 30 – 24022 Alzano Lombardo (BG)**

PERSONA AUTORIZZATA
(Firma)



Alzano Lombardo (BG) li 01/03/2026

FIRMATARIO
(Legale Rappresentante)



DICHIARAZIONE CE DI CONFORMITA'

ai sensi del Allegato II parte 1 sezione A della Direttiva Macchine 2006/42/CEE recepita a livello nazionale dal Decreto Legislativo 27 gennaio 2010 n.17

IL FABBRICANTE: Polini Motori S.p.A.
SEDE LEGALE ED OPERATIVA : Via Piave, 30 – 24022 Alzano Lombardo (BG)

DICHIARA:

Che le batterie per E-Bike per il sistema **Polini E-P3 - E-P3+ - E-P3+EVO - E-P3+EVO2 (955.830.001 – 955.830.030 – 955.830.040 – 955.830.035 - 955.830.040 - 955.830.058 - 955.830.059)** sono composte da seguenti componenti:

BATTERIA

è conforme ai requisiti essenziali di sicurezza e di salute relativi alla progettazione e alla costruzione della macchina e dei componenti di sicurezza ai sensi dell'Allegato I – Direttiva Macchine 2006/42/CE recepita a livello nazionale dal Decreto Legislativo 27 gennaio 2010 n.17

LE SEGUENTI NORME ARMONIZZATE SONO STATE UTILIZZATE PER LA CORRETTA IMPLEMENTAZIONE DEI REQUISITI ESSENZIALI DI SICUREZZA E DI SALUTE DELL'ALLEGATO I DIRETTIVA MACCHINE 2006/42/CE

Norma	***Descrizione***
2011/65/EU	*RoHs*
UNI EM 15194:2017	*Biciclette elettriche a pedalata assistita- biciclette EPAC*
UN 38.3	*Trasportation*

LE DIRETTIVE EUROPEE E LEGGI ITALIANE CHE SONO STATE UTILIZZATE

DIRETTIVE EUROPEE	**LEGGI ITALIANE**
2014/30/UE (EMC)	D.Lgs. 80/2016 (Compatibilità Elettromagnetica)

Persona autorizzata a costituire il Fascicolo Tecnico

Nome: **Denis**
Cognome: **Polini**
Indirizzo: **Via Piave, 30 – 24022 Alzano Lombardo (BG)**

PERSONA AUTORIZZATA
(Firma)



Alzano Lombardo (BG) lì 01/03/2026

FIRMATARIO
(Legale Rappresentante)



PI914
11A26



polini motori®
trasforma il meglio in massimo

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