Owner Manual

for CARBON E BIKE

Updated August 2019

CONTENTS

1 DISCLAIMER, COPYRIGHTS AND TRADEMARKS

1.1 Original Instructions, Translations and Updates

Original instructions are produced in English. Translations of the original instructions to other languages may take place, however Moto Parilla accepts no responsibility for any errors or misinterpretation of information as a result of such translation.
On request we can supply version in any EU language.

Visit https://www.motoparilla.it/italian-e-bike/service-manuals/ to check for any new revisions or updates to this manual.

1.2 Disclaimer

The specifications, information and performance of the CARBON E-BIKE and other products manufactured by or sold under license granted by MOTO PARILLA and featured in this document may change without notice. The use of this information or products and the conditions under which the products are used are the sole responsibility of the buyer and/or the rider. It is the buyer's and/or rider's responsibility to determine the correct and safe selection of settings and conditions of use of the products and to periodically check the products for secure and proper operation. To the extent that the law permits, any liability which may be incurred as a result of the use of a product manufactured by or sold under license granted by MOTO PARILLA is limited to the cost of repairing or replacing the failed product or component at the discretion of MOTO PARILLA, either within or outside of warranty periods, and does not extend to any loss or damage which may be caused as a consequence of misuse or failure of the products. Damages to the product, other property or any persons are the responsibility of the buyer and/or rider. By using this product manufactured by or sold under license granted by MOTO PARILLA, you are stating that you have read this disclaimer and agree to hold MOTO PARILLA, its owner/s and any of its employees or directors free from all liabilities, that you agree you are using and operating the product at your own risk, and that no warrantees or guarantees are made by MOTO PARILLA, expressed or implied, on performance or operation.

1.3 Copyright Notice

1.4 Trademarks

MOTO PARILLA® is the registered trademark of MOTO PARILLA.

CARBON E-BIKE is a patented design of MOTO PARILLA.

1.5 Standards and Conformity

CARBON E-BIKE is an electric power assisted cycle developed in accordance with:

2006/42/EC	The Machinery Directive

2 SAFETY

2.1 General Warning

This manual contains many warnings and cautions, which if ignored, may increase the risk of injury to you as a rider, may cause damage to the product or may invalidate the warranty. We recommend that you read and understand this manual in its entirety, prior to your first ride. Before riding your CARBON E-BIKE you must visit https://www.motoparilla.it/italian-e-bike/service-manuals/ for up to date important safety related information. Riding any bicycle involves the risk of product damage, serious injury or even death. Such risks are increased in busy, urban environments with moving traffic. By choosing to ride a CARBON E-BIKE, you assume the responsibility for these risks, and it is important that you know how to ride responsibly and to exercise proper maintenance to minimise such risks and potential damage. Do not try to ride beyond the limits of your ability or the limits of the CARBON E-BIKE.

We strongly recommend that you learn more about the inherent risks associated with riding bicycles and suggest that you:

- Ask your local bike retailer for information or instruction on safe cycling.
- Ride within your means and ability.
- Attend a training session or safe cycling workshop run by many local bike clubs, police departments, schools or government support groups.
- Always keep both hand on the handlebar and the eyes on the road.
- Always seat properly in the seat, with the legs one for each side and the feet on pedals in the proper way
- The bicycle don’t stand alone and it is always possible to fell down. So drive and stop always carefully and wear appropriate protection for reduce the effect of any injury
- Always wear homologated helmet
- Search “bicycle safety” online for reference information.

Skills of riders can vary; for example, it takes a highly skilled rider to travel at high speeds and/or close to obstacles, cars or other cyclists. Do not ride in a manner that exceeds the limits of your ability.

WARNING! Rules for electric vehicles can change from country to country and they could also change during time due modification or new rules from Authority. Please contact local authority before to ride the CARBON E-BIKE and always conform yourself and your ride at local and general rules. Moto Parilla is disclaimed for any effect od use non in conformity with local rules

2.2 Intended Use

CARBON E-BIKE is an electric bicycle developed and designed for commuting usage and/or simple riding in fair weather and at speeds relevant to safe and appropriate travel in an urban or suburban environment. Abusive riding styles or inappropriate use will invalidate any warranty protection offered

WARNING! Understand your CARBON E-BIKE and its intended use. Using your CARBON E-BIKE in the wrong manner or for the wrong purpose can be dangerous and may impact the service life of the product.

The CARBON E-BIKE is a power-assisted bicycle intended for sensible use by physically competent riders. If you have any concerns or doubts about your use or enjoyment of such a product due to a medical condition, an illness or if you are recovering from treatment for a condition or illness, you should consult your doctor regarding the suitability of the product for you. If you are the user of an implanted medical device such as a pacemaker or defibrillator, you agree to seek appropriate advice from the manufacturer of such device prior to the usage of MOTO PARILLA products.

2.3 Customizing

WARNING! Do not modify or customize your CARBON E-BIKE or CARBON E-BIKE components in any way. Such modifications or refinishing will make void any applicable warranty.

Modifications can cause damage which can increase the risk of failure and accident which may result in serious injury or death. Refinishing can hide structural damage, such as fatigue cracks or structural problems which may also result in an accident.

2.4 Maximum Design Limit

WARNING! This product has been designed with a maximum recommended weight limit of 100kg (220lbs) for the rider, clothing and all luggage, and is intended for use on paved roads. For rider and luggage weight 100-115kg (220-250lbs): riding style, road condition, tire pressures and luggage position may reduce product service life. Never exceed rider and luggage weight at any time. Exceeding this limit will make void all warranties and may result in the product being unsafe for operation.

2.5 Riding in Low Light Conditions

In low light conditions at night, dawn, dusk or during adverse weather conditions such as fog, the visibility of cyclists is dramatically reduced

WARNING! Never ride a bicycle in low light conditions without appropriate front and rear lights fitted and "on" (illuminated) that meet or exceed the national standards of the country in which it is being ridden.

We recommend that you consult the relevant national safety organization or a reputable cycle dealer on what the minimum recommended lighting requirements are in your particular country or region.

We also recommend to wear bright, reflective clothing such as reflective vests, leg and arm bands

2.6 Stopping the CARBON E-BIKE

The CARBON E-BIKE is equipped with front and rear hydraulic disk brakes, operated by two levers on the handlebars (shown). Before riding, it is important to familiarize yourself with which brake lever operates the front brake and which operates the rear brake. Proper use of your brakes will slow and bring your CARBON E-BIKE to a safe and controlled stop.

WARNING! To slow or stop the CARBON E-BIKE in normal operation, apply the brakes appropriately. In the event that an emergency stop is required, apply the brakes appropriately and in a safe and controlled manner until you have brought the CARBON E-BIKE to a complete stop. Do not release the brakes until it is safe to do so.
Action on brake could block the wheel so the rider must be ready at all times. Reduce speed dramatically if street condition could make the blocking of wheel easy, in order to help slow or stop the CARBON E-BIKE in a controlled manner.

Aggressive use of the brakes may cause your CARBON E-BIKE to skid, potentially resulting in loss of control. Anticipate your need to stop and slow using appropriate pressure on the brake levers.

2.7 Riding in Wet, Cold or Icy Conditions

Under wet, cold or icy conditions, the stopping power of your brakes and tires (as well as the brakes of other vehicles sharing the road) is dramatically reduced. This makes it harder to control speed and easier to lose control. It also makes skidding during turning more likely. Ride more slowly and cautiously when in wet weather. If it is cold, near or below the temperature when water freezes, be careful of ice on the roads which could be dangerous.

WARNING! Wet or icy conditions impair traction, braking and visibility, both for the cyclist and for other vehicles sharing the road. The risk of an accident is dramatically increased in wet conditions

To make sure that you can slow down and stop safely in wet conditions, ride more slowly and apply your brakes more gradually than you would under normal, dry conditions, taking care to anticipate your need to stop and slow to avoid any aggressive use of the brakes.

We do not recommend riding in heavy rain or standing water, but we do understand that this is not always avoidable. If your CARBON E-BIKE gets wet, clean and dry it within 10 minutes of heavy wet weather riding. See 7.2 Cleaning and Preventing Corrosion for more information.

2.8 Riding in windy conditions

You must consider that the dimension and the geometry of the CARBON E-BIKE is not common. It is important to become accustomed to the different feeling of ride.
In windy conditions, especially lateral wind, due the great dimension of the bike, wind action can be very effective and deviate the bike from its line or induct shacking vibration. Please take note and be ready to prevent and take the necessary action to keep the bike in its line and reduce the speed to under 15 km/h (9 mile/h).
Always keep both hands on handlebar in windy conditions.

WARNING! Windy conditions modify the behavior of the CARBON E-BIKE. The risk of an accident due the lost of control of the E-bike is dramatically increased, so the speed must be reduced to under 15 km/h (9 mile/h) for the safety of both the rider and the cyclist as well as for the other vehicles sharing the road

2.9 Riding in high traffic conditions with trucks

Please take note that big trucks move a great volume of air and when they overtake a bicycle rider they produce an effect of strong lateral wind.
If possible please avoid riding in this road condition if not strictly necessary and in case, apply the instructions of “riding in windy conditions.”
Apply the instruction of “riding in windy conditions” any time a truck is going to overtake.

2.10 Limited Life Span

WARNING! Bicycles have a limited life span for safe operation and are not indestructible

As with all mechanical components, bicycle components are subject to wear and high stresses. Different materials and components may react to wear, stress or fatigue in different ways. Excessive wear and high stress of your CARBON E-BIKE may be hazardous.

The expected life span of a CARBON E-BIKE or its components will vary with the material and construction of the frame and components, the maintenance received over its life and the type and amount of use. Any unusual or abusive riding style, such as off-road cycling, competitive riding, stunt cycling, jumping or riding at excessive speed and braking hard, can accelerate the wear and fatigue of components to the extent where premature and sudden failure of a component may occur without warning and the risk of injury is increased.

Any form of crack, scratch or change of coloring in highly stressed areas indicate that the life of the component has been reached and you should replace it before any further use is made.

See Section 7.5 Checking for Cracking and Fatigue Failures for parts of the CARBON E-BIKE that require visual inspection from time to time.

A blow to your CARBON E-BIKE, either major or minor, can cause stress and fatigue on the CARBON E-BIKE and its components or compromise the integrity of the electronics, including

the battery, electronic controller, motor drive system or wiring. In the event of an accident and if safe to do so, put your battery into sleep mode. (see Section 5.3.4.) Check for visual damage before continuing to ride the CARBON E-BIKE. If the CARBON E-BIKE has sustained damage other than light cosmetic scratches such as dented, cracked, bent or misaligned components, do not ride your CARBON E-BIKE until it has been inspected by an authorized CARBON E-BIKE service center. If in doubt about the inspection of your CARBON E-BIKE, contact techsupport@motoparilla.it

2.11 First Ride

WARNING! First familiarize yourself with the modes of operation, controls and performance of your CARBON E-BIKE before venturing onto busy streets.

We strongly recommend that you familiarize yourself with your new CARBON E-BIKE by first riding it in a controlled environment, away from potential hazards such as moving traffic and obstacles. It is important to become familiar with the modes of operation, controls, brakes and the different performance features inherent to the electric motor.

WARNING! Your braking efficiency will increase during the first few rides as your brake disks and pads "bed in". To accelerate the increase in braking performance, perform a number of controlled stops under hard braking. Please do that by following the instructions in 2.6 carefully.

2.12 Steering radius

Your CARBON E-BIKE is very big and long, which is what makes it cool and unique. The steering radius is usually bigger than an ordinary bicycle. It is therefore necessary to become accustomed to the steering radius of your CARBON E-BIKE before riding on main roads. It is advisable to practise different turning conditions and bear in mind the personal turning performance of your CARBON E-BIKE before reaching a turning where the reduction of speed according to the turning radius, is requested

WARNING! If speed is not reduced or a wrong calculation of the turning is made, the rider could lose the riding line, the position in the lane or even cross over to the opposite lane, all of which could have dramatically dangerous consequences. Therefore, for the safety of both the rider and cyclist and for other vehicles sharing the road, speed must always be reduced before a turning and in relation to the radius requested

2.13 Moving and parking

When you park the bike take care that it is in stable condition and that is not in area where can fall down to children or animals. Don't park the bike in not flat street if possible; if not possible take care that due to the gravity force the bike can move itself and injury people and damage things and itself. So take all the prescription for avoid any spontaneous movement. If not possible in anyway to park the bike on a flat street, lay the bike down slowly and carefully to the ground.
Move the bike by hand walking at its side, keep the hand on the handlebar and be ready to stop the bike using the brake lever: make sure the bike leans a little towards you so that the center o gravity projection will fall in the triangle made by your feet and the 2 wheels. In that case that bike will not risk to fall on the other side, where it can injury people and damage things.

WARNING! CARBON E-BIKE is a big bike. If fall down against people, especially children, it can be very dangerous. Take care of all the consequence of a not stable parking. Moto Parilla is disclaimed for any damage coming from a not stable parking.

3 WARRANTY

Please view current warranty terms and conditions at https://www.motoparilla.it/italian-e-bike/service-warranty/

3.1 Warranty Registration

For your continued satisfaction and safety whilst riding your CARBON E-BIKE, we strongly recommend you register your CARBON E-BIKE at https://www.motoparilla.it/italian-e-bike/service-warranty/ . Doing so will enable us to contact you with important product safety-related information, should the need arise.

In the event that you wish to make a warranty claim, you must provide your original proof of purchase (sales receipt or order confirmation). Keep this information in a safe place. Before we can process a warranty claim, you must have registered your CARBON E-BIKE.

Please visit visit https://www.motoparilla.it/italian-e-bike/service-manuals/ in order to stay informed of important safety notices.

3.2 CARBON E-BIKE Frame Number

Your CARBON E-BIKE comes with a unique identifier called the “frame number”, positioned on the swing arm of the CARBON E-BIKE on the right side, just behind the chain. An example is shown below:

Your CARBON E-BIKE frame number will be required when registering your CARBON E-BIKE, making a warranty claim or making contact with Moto Parilla. Make a note of your frame number and keep it in a safe place.
If you have bought your CARBON E-BIKE used from other customers you should register and update your data.

4 RECOMMENDED ASSEMBLY SEQUENCE

IMPORTANT ASSEMBLY ADVICE! Continue reading for important assembly advice, including how to register your CARBON E-BIKE. See Section 4.8 CARBON E-BIKE Registration.

4.1 First Assembing

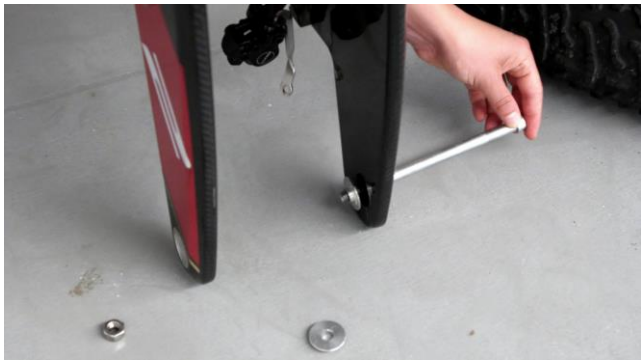
IMPORTANT ASSEMBLING ADVICE! Before assembling the bike, be sure to have all the tools necessary, to be in an appropriate space and that the bike is stable. It is important not to do this alone because the assembling procedure needs one person to assure the bike does not fall. The CARBON E-BIKE has no stand. In the case of a fall, the bike carbon frame and fork may become damaged. Please avoid this eventuality. Should the bike fall, check carefully for cracks before riding.

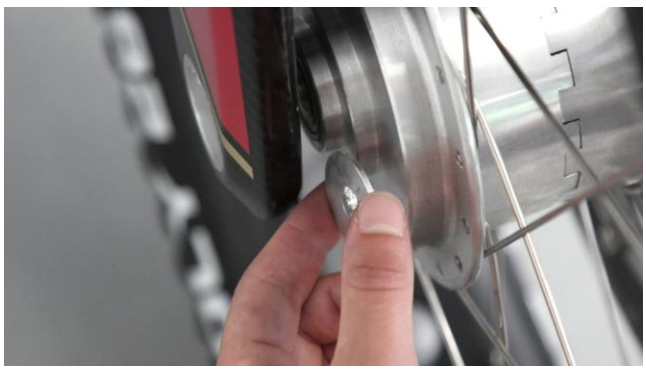
Please also watch the tutorial in https://www.motoparilla.it/italian-e-bike/service-manuals/

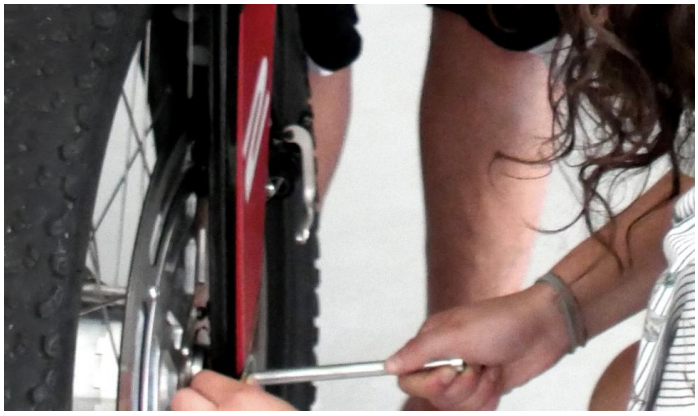
At least 2 people should take out the CARBON E-BIKE and all the parts from the carton. Take note that CARBON E-BIKE will arrive with front wheel and handlebar disassembled. Be careful not to scratch the carbon and aluminum surfaces and make sure parts of the bike don't fall.

IMPORTANT ADVICE!: take care of the environment. Waste the carton box and all packaging material in the proper way following the rules of your country and local authority.

When assembling the front wheel make sure that the spacers are in the right position on both sides. **The wide side of the spacer must touch the carbon blade fork.**







Tighten the wheel nut M10 on its axle and install the brake caliper with the hose holder. Make sure the hose does not touch the tire.

Assemble the handlebar and make sure that the wire and the cable are well disposed and are not too tight.

Assemble the pedals and make sure you have left and right pedals. The letter on pedal axle is L for left and R for right

Assemble the seat with the seat sets in the right position and tighten the lock screw.

4.2 Pre-ride Checks and Service Interval

Before riding your CARBON E-BIKE you must complete the pre-ride checks. This will ensure your safety and that your CARBON E-BIKE is operating optimally.

1) Brake Test while bike is stationary (with action on brake lever the bike can't move)

2) The handlebar stem is designed for maximum 5 cm of travel. Please make sure that the cables are not too tight or they will interfere the steering.

3) Make sure the handlebar is tight and, holding the front wheel, you shouldn't be able turn the handlebar

4) That the seat is well tight

5) That screws between carbon frame and aluminum frame are well tight

Perform this operation keeping the bolt fixed and tightening the nut inside.

6) That screws on the front forks are well tight

7) Front and rear tire pressure

8) Front and rear shock absorber pressure

9) Chain tension

Before riding, please answer the following questions:

a) Have you read and understood this manual?
b) Have you followed all the assembly and control instructions in this manual?
c) Have you checked that brakes are functioning properly and that you know which lever is for the front brake and which lever is for the rear brake?
d) Have you checked that all screws are properly tightened?
e) Have you checked that tires are properly inflated?
f) Are you wearing an approved cycling helmet?
g) Are you wearing appropriate protective clothing?
h) Are you wearing appropriate shoes?
i) According to the light condition, are you visible to other road users?
j) If riding in a low-light level, have you equipped your CARBON E-BIKE with efficient front lighting?
k) If you are going to ride in rain or icy conditions, are you equipped with appropriate clothing?
l) If you are going to ride in rain or icy conditions, are you aware that the risks of injury are greater?
m) If you are going to ride in rain or icy conditions, are you sure to have the skills to ride the bike safely for yourself and for other road users, in that condition?
n) Have you checked on www.motoparilla.it/manuals for any news and technical bulletins which could add to safety factors and if you have, have you put them into practice.

If you have answered "no" to even one of these questions, please do not ride your CARBON E-BIKE

Service interval	Distance ridden	Time interval	Reference
Customer registration	Before first ride	Before first ride	www.motosuv.com/customer
Pre-ride check	Before each ride	Before each ride	Owner manual
Screw tightening	Each 50 km	Weekly	Owner manual
Visual inspection	Each 50 km	Weekly	Owner manual
Brake pads inspection	Each 100 km	Monthly or less in function of the use	Owner manual
Manual update		Monthly	www.motoparilla.it/manuals
Checking for Cracking and Fatigue Failures		After any unusual or abusive riding style, crash or fall from bike and before next ride	techsupport@motoparilla.it

4.3 Handlebar Height Adjustment

Untighten the screw and the quick release in the steering stem extension and find the right position while sitting on the bike. Tighten the screw and make sure that the handlebar is symmetrically aligned with the front wheel.

IMPORTANT ADVICE! Check that the steering stem extension does not exceed the maximum of the insertion mark for 2018 version. For version with Ergotec extension please note that carbon is designed for a maximum of 50 mm extension.

4.4 Seat Height Adjustment

Untighten the screw in the seat post and find the right position sitting on the bike. Tighten the screw and make sure that the seat is symmetrically aligned with the frame.

4.5 CARBON E-BIKE Registration

IMPORTANT: YOUR CARBON E-BIKE REQUIRES REGISTRATION!
Registration must be made within 15 days from receipt of the bike and in all cases before riding the bike.
Without registration, no warranty claim will be possible and we strictly recommend not to use the bike.

Your safety is our utmost priority. Registration guarantees that you are kept up to date with any important service and maintenance announcements.

From time to time, we may need to make you aware of important announcements regarding the correct maintenance and servicing of your CARBON E-BIKE. We may also have to send you important safety related information relating to your particular CARBON E-BIKE.

NOTE: Please ensure that email junk filters and safe sender settings are updated on your system to enable receipt of email from techsupport@motoparilla.it. We will not use the contact information provided for any other purpose other than to send safety information as described above.

5 CARBON E-BIKE LITHIUM BATTERY

5.1 Important Information: Lithium-Ion Batteries

The following important information applies to your CARBON E-BIKE lithium battery. Read carefully to ensure the proper and safe use and storage of the battery.
Your e-bike is equipped with a high quality battery on a customized case. Please follow the instructions and the battery life will last longer.
Take note that Lithium batteries are dangerous. Follow safety instruction in the User Manual and in the Battery Manual published on https://www.motoparilla.it/italian-e-bike/service-manuals/ . It can be very dangerous and cause injuries and damage. Also danger of explosion can be a possibility.

MOTO PARILLA is disclaimed of any responsibility for use of battery not in conformity of safety instructions

Please check the battery manual on https://www.motoparilla.it/italian-e-bike/service-manuals/

- Your battery has been designed to be used with the CARBON E-BIKE only. Do not use the battery with any other product.

- Your battery is intended to remain within the case made by Moto Parilla at all times and should be removed only by a Moto Parilla-approved service

center or with the assistance and approval of a Moto Parilla technical support executive.

- Do not short circuit, disassemble, damage or modify the battery.
- Do not expose the battery to fire or high temperatures over 40°C (104°F).
- Do not expose the battery to water or moisture. Water can corrode or damage the internal battery safety devices and cause the battery to overheat, ignite, rupture or leak.
- Do not drop or subject the battery to strong impacts. Impacts can damage the internal battery safety devices and cause the battery to overheat, ignite, rupture or leak.
- Only use the specified charger. An inappropriate charger may cause damage or injury like fire or electric shock.
- Do not leave the battery unattended whilst charging.
- Only use, charge or store the battery in an environment with ambient temperatures between 0°C and 40°C (32°F and 104°F) and a humidity of 45% to 85% RH.
- Remove the battery before cleaning the bike with water and dry carefully before fitting the battery again.

5.2 CARBON E-BIKE Lithium Battery: Usage

5.2.1 Charging Sequence

For a longer life of your lithium battery, please charge it well in advance before the battery gets completely empty.

It is always preferred, when possible, to extract the battery from the CARBON E-BIKE before charging the battery, because the heat generated during the charging sequence has a higher possibility to be dissipated.
This way the battery temperature will remain lower and the battery life will increase.

1) Open the battery door

2) Extract the battery using the handle and disconnect the cable from the motor

3) Connect the battery charger to the electric line AC/DC (220V in EU, 110V in USA) and the light on battery charger will turn green

IMPORTANT ADVICE! Check that the electric AC/Dc line is equipped with all the safety devices and that the line has a neutral wire well connected in the ground.

4) Connect the battery charger to the battery. The led on the battery charger will become red and the led on the battery will become green
5) When the battery is charged, the led on the battery charger will turn green.
6) Disconnect the battery from the battery charger
7) Disconnect the battery charger from electric AC/DC line

IMPORTANT ADVICE! DO NOT LEAVE THE BATTERY ON CHARGE FOR MORE THAN 12 HOURS.

NOTICE: With the battery fully charged and the charger disconnected, turn the battery off by placing it into OFF Mode. See section 5.2.4 Returning the Battery to OFF Mode for more information.

5.2.2 Battery ON Mode

The battery must be in *ON Mode* before using with your CARBON E-BIKE.

To protect itself, the battery will switch itself off automatically after about 60 minute of stand-by, so you must make this operation before riding the bike.

1) Open the battery door

2) Press the button until the LEDs begins to flash

NOTICE: It is important that when the battery door is closed, the pin, in the rear part is well engaged in the carbon frame and there are no wires on the top of the battery case. All the wires must be stored on the back of the battery case.

5.2.3 Checking Your Battery Charge Level

The battery charge level will show on the dashboard display while riding.
You can also see the battery level when pressing the on/off button.

5.2.4 Returning the Battery to off mode

NOTICE: The CARBON E-BIKE will use power when the battery is in *ON Mode*. This will drain the battery. Best practice is to be turned OFF to save energy when not in use and the battery is fully charged.

1) Press and hold the battery until the LED turns off

NOTE: the battery will never enter *OFF Mode* if the charger is connected. To enter *OFF Mode*, disconnect the charger.

5.2.5 Automatic OFF Mode

The battery will enter *OFF Mode* automatically if not in use for about 60 minutes. Check that the battery is in *ON Mode* before attempting to ride. If the CARBON E-BIKE is plugged into the charger, it will never enter *OFF Mode*. If you have a green light on your charger disconnect the charger and turn the CARBON E-BIKE battery into *OFF Mode*.

5.3 CARBON E-BIKE Lithium Battery: Care and Maintenance

Batteries do not last forever. As with lithium-ion batteries found in most battery-powered products, the CARBON E-BIKE lithium-ion battery will slowly deteriorate over time. Lithium-ion batteries begin to degrade from the point of manufacturer due to a chemical reaction that gradually causes the internal impedance of the cells to increase which, in time, reduces the ability of the battery to deliver its charge. For this reason, a new battery will always perform better than one of six months old.

To maximize the potential lifespan of your CARBON E-BIKE battery, follow these guidelines:

- Before first use, ensure that your battery is fully charged.
- The charge indicator on the dashboard and the capacity of the battery pack may vary during initial usage. After few discharge and charge cycles, the battery and fuel indicators will become more consistent.
- Your battery will go into over discharge protection mode if it is discharged to a critically low level. Recharge your battery as soon as possible after it becomes fully discharged. A battery will be permanently damaged if left for an extended length of time in a fully discharged state.
- If possible, avoid the full discharge of the battery and recharge whenever possible to maintain the battery charge level.
- Heat accelerates the degradation of batteries. Avoid operating or storing the battery in high temperatures when possible.
- Once your battery displays less than two 2 lines, charge your battery within 48 hours. Place the battery on charge, and when the charge is complete, press the OFF button. Do not allow a nearly depleted battery to be unused for more than one month. The battery will slowly discharge until it becomes fully discharged, and this will permanently damage the battery cells.
- Once your battery display shows that battery is empty or the e-bike stops working because undercharges of battery cut off the power, don’t switch on again the battery and void to use it: the start and stop can rest the undercharge protection level of BMS

that can be unable to protect the battery and damage irremediably the battery himself.

When you are not using the CARBON E-BIKE, we strongly recommend that you put the battery into *OFF Mode*. See 5.2.4 Returning the Battery to OFF Mode, for more information. Do not leave the battery on charge. When fully charged, disconnect the charger and return the battery to OFF Mode.

5.4 Shipping and Handling of Lithium Batteries

Like any lithium-ion battery, the CARBON E-BIKE lithium-ion battery is classified as Miscellaneous Class 9 Dangerous Goods, and as such, must be packed, shipped and handled in accordance with the strict guidelines laid out by the relevant international regulatory bodies for air, sea and road transport.

Never attempt to transport your lithium-ion battery by air, without first seeking the prior approval of your airline. Never return your battery to Moto Parilla without first making contact with techsupport@motoparilla.it Do not discard any of the battery packaging materials.

5.5 Battery Pack Disposal

When your CARBON E-BIKE lithium battery has reached the end of its service life, you must recycle it or dispose it properly:

- Do not dispose of batteries with general household waste.
- When your battery no longer holds a charge, contact your local waste disposal or environmental agency for advice on the disposal of a lithium-ion battery.
- Lithium-ion batteries are classified as Miscellaneous Class 9 Dangerous Goods. Consult your local authority for further advice on storage, handling and shipping.

6 OPERATION

6.1 EGGRIDER Dashboard Display

READ AND FOLLOW INSTRUCTION IN
https://bitbucket.org/eggpower/eggriderv2/wiki/Home

OR CONTACT EGGRIDER SERVICE AT
https://eggbikes.com/index.php?route=information/contact

6.2 Knowing the ENVIOLO GEAR HUB

Your CARBON E-BIKE is equipped with ENVIOLO SP GEAR HUB. ENVIOLO is a CVT GEAR HUB. It is strongly recommended to visit the ENVIOLO web site and read carefully all the instruction and safe manuals.

https://www.enviolo.com/en/manual

https://support.enviolo.com/hc/en-us

WARNING! CVT gear hub is different compared to traditional mechanical shifting. Familiarize yourself with upshifting and downshifting before riding on busy roads or in traffic.
Don't operate the gear shift when you are pedaling or when motor is working: under torque the gear shift can't operate on CVT and will stress the Bowden cable reducing its life span

6.3 BAFANG Dashboard Display

Please check the manual on https://www.motoparilla.it/italian-e-bike/service-manuals/

For any further question pls contact Bafang service:
http://www.szbaf.com/en/service/contact.html

6.4 Riding Modes

You can operate your CARBON E-BIKE at different power levels to suit your personal riding style and the road condition.
CARBON E-BIKE has 9 levels of power assistance to choose from, that follow different levels of speed and power.
The motor will start when you start pedaling in relation to the gear shift position. In low gear the motor will start proceeding into high gear shift.

CARBON E-BIKE can also be equipped with throttle lever overcrossing the pedal action.
With the throttle lever the bike can start also from zero speed.
Your CARBON E-BIKE is supplied without throttle lever assembled. Before fitting the throttle lever and using the bike in throttle mode, be sure that this mode is legal within the boundaries of the territory which you are riding in.

WARNING! Select a riding mode which is legal in the country of use. If in doubt, consult your local transport authority. Within the European Union and even with 250W power, the throttle lever use is forbidden.
If your CARBON E-BIKE has more power than 250W, please control if its legal or not before using. MOTO PARILLA is disclaimed of any responsibility for the use of CARBON E-BIKE not in conformity with law of the territory.

6.4.1 Selecting a Power level

When you press the ON SWITCH on the handlebar your CARBON E-BIKE will start as default at the lowest power level (1).

To select a power level, press buttons "+" **A** and "-" **B** looking the number displayed on display. A for increase and B for decrease, or use app on your cell phone.
Please select the power level in a safe condition avoiding any distraction to the rider.

WARNING! It is possible to change the power level while riding, but riders are advised not to do this because it could cause a reduction in the riders concentration on the road and traffic conditions and could increase the the possibility of accidents , which may result in injury or even death to a driver and to other cyclists or other vehicle drivers sharing the road

6.4.2 Rear light

To turn on the rear light, press and hold the button "+" **A** on the selector of the left side of the handlebar if you have Bafang display. With Eggrider use the App on your cell phone or press and hold the button "-" **B.**

To turn off the rear light, press and hold the button "+" **A** on the selector of the left side of the handlebar if you have Bafang display. With Eggrider use the App on your cell phone or press and hold the button "-" **B.**

6.5 Some suggestion how to better use your CARBON E-BIKE

The CARBON E-BIKE has been designed as assisted pedal bike.
Using the motor only (where allowed by law) is a second mode option.
To increase the life of all mechanical components, and for a healthier life style for the rider, we recommend to use the CARBON E-BIKE with both pedals and motor at the same time, even where only the motor use is allowed by the law.

Range of battery and maximum speed are difficult to define. Power level, rider weight (including clothing and luggage), tires pressure, terrain, surface texture, wind conditions and how much effort the rider put into pedaling.

Of course using motor at higher level power will have a negative effect on the range of your battery.
Using lower power level and strong pedaling will ensure the best possible range.

To get the best out of your CARBON E-BIKE, read carefully the following points:

1. *Pedaling*: We recommend, for the best performance, you continue to pedal at all time, especially during the start operation when the battery rate is at its maximum.

2. *Tires:* before any ride check that the tires are correctly inflated.

3. *Rider weight*: Never exceed the recommended weight. If possible use the CARBON E-BIKE with the least weight possible. Used with the max load, the CARBON E-BIKE will reduce the battery range, will also affect your CARBON E-BIKE's handling and will increase the stress on the gearbox and motor, potentially reducing the service life of the product.

4. *Riding style:* on irregular road (for example: poor road surfaces, speed bumps, potholes, etc.) please adapt your riding style to avoid any useless extra stress to the bike, potentially reducing the service life of the product.

WARNING! Never use the motor when passing over obstacles such as ruts in the road or speed bumps, etc. Doing so will increase the stress on the drive components and will reduce the service life of the product, possibly invalidating your warranty.

5. *Brake use:* please follow the instructions listed in point 2.6. Avoid strong braking to extend the service life of the pads. If speed is reduced in time of breaking unnecessarily the battery life will be increased and riding will be safer.

6. *Imperfect weather conditions: the* CARBON E-BIKE has been tested in all weather condition. However, in case of rain, ice, wet road and wind, please follow the instructions in the present manual, with extreme care.

7. *Owner manual and warranty:* please follow the instructions on this manual, visit our web site www.motoparilla.it and register your bike.

8. *Pre use control and service:* before using your CARBON E-BIKE please follow the instructions in the present manual with extreme care.

9. *Storage and cleaning:* when storing your CARBON E-BIKE please take care to put the battery pack in OFF-mode. Use your CARBON E-BIKE for some rides also during winter storage: long inactivity of battery can reduce the life span. When cleaning the CARBON E-BIKE be sure the battery has been removed and please avoid the use of pressure water, aggressive cleaner or scratching material. Dry carefully before storage and always before reinstalling the battery pack.

10. *Parking:* if possible do not park your CARBON E-BIKE in hot sunny areas for a long time. In sunny areas, all parts of the bike can easily reach very high temperatures. High temperatures can damage the battery and reduce the life of the carbon fiber.

WARNING! In sunshine, both the temperature of the bike as well as the aluminum parts, can reach high temperatures. Please note and take all precautions to avoid any injuries or skin burns to the rider or to any other person potentially likely to come into contact with high temperature parts, especially children.

7 MAINTENANCE AND ADJUSTMENTS

7.1 Maintenance

In the event that you require maintenance and service please refer to techsupport@motoparilla.it . Before attempting any maintenance on your CARBON E-BIKE you must visit https://www.motoparilla.it/italian-e-bike/service-manuals/for up to date important safety related information.

7.2 Service interval

Service interval	Distance ridden	Time interval	Reference
Customer registration	Before first ride	Before first ride	www.motosuv.com/customer
Pre-ride check	Before each ride	Before each ride	Owner manual
Screw tightening	Each 50 km	Weekly	Owner manual
Visual inspection	Each 50 km	Weekly	Owner manual
Brake pads inspection	Each 100 km	Monthly or less in function of the use	Owner manual
Manual update		Monthly	www.motoparilla.it/manuals
Checking for Cracking and Fatigue Failures		After any unusual or abusive riding style, crash or fall from bike and before next ride	techsupport@motoparilla.it

7.3 Cleaning and Preventing Corrosion

CARBON E-BIKE was tested in any weather condition, but for your safety we do not recommend that you ride your CARBON E-BIKE in heavy rain.
Please read 2.7 Riding in Wet, Cold or Icy Conditions for safety recommendations.

If, for any reason, you must drive in bad weather conditions and you cannot avoid doing so, please follow all previous recommendations. Before storing the CARBON E-BIKE be sure to clean it and dry it.

- Clean the CARBON E-BIKE to remove the dirt and any possible aggressive material that could be mixed with dirt (such as salt to melt ice.) Avoiding to clean the e-bike can accelerate corrosion. The warranty will not cover premature failure as a result of corrosion through neglect.

- Here are some best practice recommendations:

- If your CARBON E-BIKE is wet, dry it as soon as possible.

- Park, storage and keep your CARBON E-BIKE inside your house, flat, garage or covered place anyway.

- To clean the CARBON E-BIKE use a damp dowel or a soft cloth with a neutral liquid soap.

WARNING! Keep your CARBON E-BIKE clean and dry at all times, where possible. Never use on the CARBON E-BIKE water from a hose or high-pressure cleaning system. Never use polishes, waxes or solvents to clean or any aggressive cleaner your CARBON E-BIKE. Never use scratching material. Carbon and aluminum surface are very easy to scratch.
Never use inflammable liquid, in any case, for any reason: finally, CARBON E-BIKE is an electric bike, small spark are always possible and it can ignite the liquid or the vapor that maybe could be even accumulated in some parts of bike.

7.4 Lubrication

There is no need to regularly inspect, clean and lubricate the components of the CARBON E-BIKE, included chain.

The ENVIOLO CVT, BAFANG Motor and all the other components including bearings, are lubricated when manufactured. The chain could have traces of grease and lubrification. Please take note in that case, the chain can dirty clothes when the rider is not wearing specific bicycling clothing. MOTO PARILLA is disclaimed of any responsibility of damage of clothing due lubrication leaks from chain.

For exceptional, heavy use, off road/cross country riding, it may be necessary to lubricate the chain with appropriate grease.

7.5 Checking for Cracking and Fatigue Failures

Please understand that the CARBON E-BIKE is not an eternal mechanism. As any other mechanical item, under normal riding will be stressed, and eventually the parts will fatigue, cracks will develop and it will become unsafe to ride. The life span of the CARBON E-BIKE cannot be predicted since there are many variables that affect the e-bike life including:

- Rider weight

- Riding style

- Tire pressure and type
- Roughness of the road
- Whether or not the bicycle has been crashed or damaged
- Whether or not the bicycle has been ridden over large bumps such as potholes or curbs
- The speed at which it has travelled
- Whether it has been subject to abuse or vandalism
- Time of exposure to ultraviolet radiation from the sun
- Storage conditions, such as ambient temperature and humidity levels

Following with extreme care the guidelines of this manual should permit you to ride your CARBON E-BIKE for thousands of kilometers and years of life. However, you must inspect the CARBON E-BIKE after any unusual or abusive riding style, crash or bike fall, to see if any of the components show cracks and need replacing. To do this, clean the CARBON E-BIKE thoroughly following the instruction explained above. Take away all dust or dirt. Carefully examine all the components under good lighting.

If any crack is present, do not ride the CARBON E-BIKE and immediately contact techsupport@motoparilla.it . Under normal conditions, items under warranty will be replaced.

WARNING! Failure to inspect the CARBON E-BIKE thoroughly may have serious consequences and could result in serious body injuries or even death.

WARNING! For any doubt on any possible crack, of any size or for any suspect that you should have on any components, especially after an impact or after an unusual use do not ride your CARBON E-BIKE and immediately contact techsupport@motoparilla.it

7.6 checking the Brakes pads

Please check periodically your brakes and disc condition, based on the use of the bike.
If bike is used often in downhill or at high speed in traffic condition, the deterioration of the pads can be pretty fast

To change and maintenance the FORMULA CURA brake please follow the instructions on the FORMULA website (https://www.rideformula.com/it/) and contact the technical service: https://www.rideformula.com/it/supporto/richiesta-supporto/

To change and maintenance the brake please follow the instructions found at TEKTRO web site (www.tektro.com) and at the following sites:

http://tektro.com/faq.php

http://tektro.com/download.php

WARNING! Use pads recommended by FORMULA for FORMULA CURA brakes only and use pads recommended by TEKTRO for TEKTRO brakes only.

WARNING! Worn pads can damage irredeemably the brake disc and make the riding of the bike very dangerous, with the possibility of being injured. MOTO PARILLA is disclaimed for the use of the CARBON E-BIKE with worn pads due to the negligence in checking the status of brakes pads.

WARNING! Do not attempt riding your CARBON E-BIKE without re-installing the brake pads and securing the split pin.

WARNING! The braking performance of a new brake pad will increase over time. Ensure that you "bed-in" your brakes by performing a number of stops

7.7 Disassembling/reassembling the rear wheel

To disassemble the rear wheel we suggest you go to a specialized bicycle repair workshop.
If not possible, please take note of the following procedure:

WARNING! Always use special gloves to protect your hands. Brake disc could present cutting edges. There is a serious risk of injury. Be careful even with gloves.

You can also watch the following tutorial https://www.motoparilla.it/italian-e-bike/service-manuals/

1) Use special tools to open the chain and remove from rear socket.
2) Remove the ring at both sides of the dropout

3) Remove the rear brake caliper

4) Loosen the nuts and remove the chain tensioner and the ENVIOLO wheel axle lock on both sides. The ENVIOLO wheel axle lock have some teeth that grip on the dropout. You can use a small flat screwdriver to free it.

5) With the help of a small screwdriver take out, from the ENVIOLO shift, the 2 Bowden clamps

6) Remove the speed sensor inside the swing arm

7) **Only for Nuvinci HUB version 2018**
With the help of a wrench, put the caliper holder in vertical position in order to free it from the dropout (remember, when you assemble the wheel insert it with the help of the caliper holder in the same vertical position)

8) Using a rubber hammer, move backward until the wheel gets free from its dropout.

9) **Only for Nuvinci HUB version 2018**
Check the presence of the aluminum spacer in the back side of the brake caliper, especially before assembling the wheel

10) To reassemble follow the instruction in reverse way

11) Tighten and adjust the chain using the chain tensioner.

7.8 Tires

CARBON E-BIKE use fat specialized, high-performance tires.
Don't use less quality tire.
We recommend the use of the following pressure

TIRE TYPE	RECOMMENDED PRESSURE	MAX PRESSURE
CST Roly Poly 26X4,80 BALLON SIZE	In standard road: Adjust as your feeling and ride behavior. We recommend not less then 75% of Max pressure. Off raod: Adjust as your feeling and ride behavior. We recommend not less then 65% of Max pressure.	200 kPa
Maxxis Minion FBF 26X4,80		140 kPa

WARNING! Inflating the tires at a higher pressure will increase the stress on all the E-bike parts and riding the e-bike will be less comfortable.

Operating the CARBON E-BIKE with a tire pressure greater than that max pressure recommended will invalidate the warranty.

When changing a tire, always use plastic tire levers. Never use a metal tire lever because you could damage the wheel rim.

WARNING! Bicycle tires are subject to standard consumption. When the tread depth is critically low it may be dangerous riding, and we recommend you to replace the tire.

WARNING! Flat tires will increase drastically the consumption of the battery.

WARNING! Tires inflate level will change bike behavior. Be sure that with the level of inflate you have chosen the e-bike behavior will match your skills and anyway always you do not ride in a manner that exceeds the limits of your ability. Test always slowly and carefully the bike in safety road before to ride in traffic road or off road. Please keep always in mind the intended use as explained in chapter 2.2.

7.9 Indicative SAG with RockShox Monarch (front) and Monarch Plus (rear)

Please read carefully the intended use of the e-bike.

The riding comfort can change from rider to rider. The values below are just indicative and settled for the intended use of the bike only.

Please read the service manual at the RockShox website (https://www.servicearchive.sram.com/service/rockshox/49) and follow prescription:

https://www.servicearchive.sram.com/sites/default/files/techdocs/95.4118.001.100_user_manual_rear_suspension_eeu_rev_b.pdf

https://www.servicearchive.sram.com/sites/default/files/techdocs/95.4118.001.000_user_manual_rear_suspension_rev_b.pdf

Rider weight (kg/pound)	PSI FRONT	Rebound adjuster		PSI REAR	Rebound adjuster
60 kg /132 lbs	125	5		215	7
70 kg/154 lbs	130	6		225	7
85 kg/187 lbs	140	7		235	8
95 kg/209 lbs	145	7		245	8

8 TROUBLESHOOTING

8.1 Unknown Gear State: Gears Will Not Shift

Symptom: Gear shift is blocked. The gears remain in the last selected gear.

Resolution: The shift don't operate during the ride. Stop pressing on the pedals or using the motor and operate on gear shift.

8.2 Gears Will Not Shift at all

Symptom: gear shift moves but doesn't shift.

Resolution: Check if the clamps are correctly engaged with the hub shifter. If not, put the clamp in its site and try again

Resolution: Check if the Bowden cables are well fixed in the gear shift. If tightened and they move, means Bowden cable is broken. Please change the Bowden cables following the ENVIOLO instructions.

8.3 speed Sensor doesn't work

To check the sensors:

1) Turn on the battery
2) Turn on the display
3) Rotate the rear wheel until the permanent magnet on the spokes engage the sensor area
4) If the sensor is in the right place, one red LED sensor will light
5) If the red LED is not on, adjust the position of the permanent magnet on the spoke or/and the position of the sensor.

*8.4 Switch brake Sensor doesn't work (*For the Tektro brakes version 2018 only)

To check the switch brake sensor:

Advice: This operation should be performed on a private road or on a road with no traffic and performed at slow speed

1) Turn on the battery
2) Turn on the display
3) Begin pedaling until the motor will start helping the rider
4) Put low pressure on the left lever ans simultaneously continue pedaling: the motor has to stop working.
5) Put low pressure on the right lever and simultaneously continue pedaling: the motor has to stop working
6) If in point 4 or/and point 5 the motor does not stop, please check the connector
7) If the connector is connected, please contact techsupport@motoparilla.it

8.5 Bafang error code

BAFANG MID MOTOR ERROR CODE DEFINITIONS

Error Code	Error Description	Error-shooting Method
"03" is displayed in the field for speed display.	The braking system has been applied.	Check whether a brake cable is stuck.
"04" is displayed in the field for speed display.	The throttle has not returned home	Check whether the throttle has returned home.
"05" is displayed in the field for speed display.	Throttle fault	Check the throttle.
"06" is displayed in the field for speed display.	Low voltage protection	Check the battery voltage.
"07" is displayed in the field for speed display.	Overvoltage protection	Check the battery voltage.
"08" is displayed in the field for speed display.	Motor hall signal cable fault	Check the motor module.
"09" is displayed in the field for speed display.	Motor phase cable fault	Check the motor module.
"11" is displayed in the field for speed display.	Controller temperature sensor failure	Check the controller.
"12" is displayed in the field for speed display.	Current sensor failure	Check the controller.
"13" is displayed in the field for speed display.	Battery temperature fault	Check the battery.
"21" is displayed in the field for speed display.	External speed-detecting sensor fault	Check the installation position of the external speed-detecting sensor.
"22" is displayed in the field for speed display.	BMS communication failure	Replace the battery.
"30" is displayed in the field for speed display.	Communication failure	Check the controller connectors.

9 CONTACT INFORMATION

CARBON E-BIKE is a product of MOTO PARILLA.

For any question check www.motoparilla.it