

CRUSSIS

Návod k použití elektrokola

Návod na použitie elektrobicykla | Electric bicycle user manual | Gebrauchsanweisung für Elektrofahrrad

Panasonic GX Ultimate | GX Power Plus

e-Atland 6.10	e-Guera 7.10	e-Guera 9.10	e-Guera 10.10
e-Guera 6.10	ONE-Guera 7.10	ONE-Guera 9.10	ONE-Guera 10.10
	e-Atland 7.10	e-Atland 9.10	e-Atland 10.10
	e-Fionna 7.10	e-Fionna 9.10	e-Fionna 10.10
	e-Largo 7.10	e-Largo 9.10	e-Largo 10.10
	ONE-Largo 7.10	ONE-Largo 9.10	ONE-Largo 10.10
	e-Cross 7.10	e-Cross 9.10	e-Hard 10.10-PRO
	ONE-Cross 7.10	ONE-Cross 9.10	e-Country 10.10
	e-Cross low 7.10	e-Cross low 9.10	ONE-Country 10.10
	ONE-Cross low 7.10	ONE-Cross low 9.10	
	e-Savela 7.10		
	e-Gordo 7.10		
	e-Country 7.10		
	ONE-Country 7.10		

*Užite si svoju jazdu!
Enjoy your ride!
Genießen Sie Ihre Fahrt!*

Užijte si svou jízdu!

CZ / SK / EN / DE

Interaktivní PDF

Všechny [modré](#) nápisy v tomto návodu fungují po kliknutí jako odkazy na určité místo v tomto návodu. QR kódy odkazují po kliknutí na web.

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Všetky [modré](#) označenia v tomto návode fungujú po kliknutí ako odkazy na konkrétne miesta v tomto návode. QR kódy odkazujú po kliknutí na web.

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All the [blue](#) labels in this manual work as clickable links to specific locations within this manual. QR codes link to the web when clicked.

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Preface

Dear users,

Thank you for purchasing the CRUSSIS electric bike! We appreciate your choice of our product. For the proper functioning of the CRUSSIS electric bike, please carefully read the product information before using it. The following text provides a description of all the details (including device installation, settings, and regular use of the display) related to the use of the electric bike. This manual will also help you address any uncertainties or issues.


CRUSSIS electrobikes s.r.o. wishes you many wonderful and safe kilometers on your new electric bike.

You can find a list of CRUSSIS dealers on the website www.crussis.com.

What is an electric bike?

Selling points



It is a conventional bicycle equipped with an electric motor. The motor can be located in the center, rear, or front hub. The electric motor may have a power not exceeding 250 W. The maximum assistance speed is limited to 25 km/h, and this limitation corresponds to the European standard EN 15194-1 (the electric motor turns off when this speed is exceeded and turns on again once the speed drops below this threshold). Additionally, the bike is equipped with a battery, which can be placed in the frame or on the rear carrier. The most critical parameters of the battery are voltage and capacity. Higher values lead to an increased electric bike range. Currently, the most commonly used batteries are lithium-ion (Li-ion) batteries. The advantage of these batteries lies mainly in their low weight and long lifespan. Regular charging of the battery is important to extend its lifespan. Communication between individual electrical components is managed by a control unit, which evaluates data from various sensors to regulate the electric motor's power output accordingly. The operation of the electric motor is facilitated through a control panel, which provides information about the battery status, assistance level, and remaining range. Most displays also include information about the time, speed, and distance covered. The motor's function is activated by pedaling, detected by a specialized sensor positioned in the pedal area. On an electric bike, you must continuously pedal, and the motor simply assists you. The pedaling sensor is responsible for informing the control unit whether the rider has started or stopped pedaling, and it reports pedaling frequency. This function is managed by either a magnetic strip sensor or a torque sensor. The magnetic strip sensor is a basic sensor that operates on a magnetic principle. Installed on the bottom bracket, this sensor monitors pedaling frequency. Activation of the pedaling sensor while pedaling backward is not possible due to magnet phasing. Torque sensors are used in more expensive, sporty bikes. Unlike magnetic sensors, they provide information about both pedaling frequency and the force applied to the pedal. A torque sensor is ideal for off-road riding, where pedaling frequency frequently changes. When greater force is needed while pedaling, the motor provides more power instantly. Conversely, when riding downhill and applying less pressure to the pedal, the motor's function is limited, conserving battery energy. You can initiate movement on the electric bike using the control button located  on the display controller, but only up to the maximum allowed speed of 6 km/h (used for assistance while walking). An electric bike that meets the European standard EN 15194-1 is legally regarded as a regular bicycle on public roads. This means you can ride on bike paths, do not require a driver's license, and helmets are mandatory only for individuals under the age of 18. We recommend the use of cycling helmets for all users regardless of age.

Turning On the Electric Bike – Models 6.10 / 7.10 (not e-Country 7.10)

1. Briefly press the power on/off button on the battery to turn on the battery (for more details, see [pages 153-154](#)),
2. Press and hold the power on/off button on the display for approximately 2 seconds to turn on the display.
3. On the display, select the desired level of assistance (for more information about display, refer to [pages 160-187](#)).

Turning Off the Electric Bike – Models 6.10 / 7.10 (not e-Country 7.10)

1. Briefly press the power on/off button on the display to turn off the display.
2. Press and hold the power on/off button on the battery for approximately 2 seconds to turn off the battery.

Electric Bike Components Models 6.10 / 7.10 (not e-Country 7.10)



- | | |
|---|--|
| 1 battery | 7 brakes |
| 2 motor | 8 shifter lever |
| 3 control panel (LCD display) | 9 cranks, pedals are not depicted |
| 4 torque sensor inside the motor | 10 quick-release |
| 5 brake levers | 11 derailleur |
| 6 battery lock (on the other side) | 12 tire and rim |

Turning On the Electric Bike – Models 10.10, 9.10 and e-Country 7.10

1. Briefly press the power on/off button on the frame to turn on the battery (for more details, see [pages 155-157](#)),
2. Press and hold the power on/off button on the display for approximately 2 seconds to turn on the display.
3. On the display, select the desired level of assistance (for more information about display, refer to [pages 160-187](#)).

Turning Off the Electric Bike – Models 10.10, 9.10 and e-Country 7.10

1. Briefly press the power on/off button on the display to turn off the display.
2. Press and hold the power on/off button on the frame for approximately 2 seconds to turn off the battery.

Electric Bike Components Models 9.10 / 10.10



- | | |
|---|--|
| 1 battery | 7 brakes |
| 2 motor | 8 shifter lever |
| 3 control panel (LCD display) | 9 cranks, pedals are not depicted |
| 4 torque sensor inside the motor | 10 thru axle |
| 5 brake levers | 11 derailleur |
| 6 battery lock (on the other side) | 12 tire and rim |

GENERAL NOTICES

Riding an electric bicycle, like any other sport, carries the risk of injury and damage. If you want to use an electric bicycle, you must familiarize yourself with and adhere to the rules of safe electric bicycle riding, proper use, and maintenance of the electric bicycle. Regular maintenance and proper usage will reduce the risk of injury and prolong the product's lifespan.

The e-Guera, e-Atland, e-Fionna, e-Largo, ONE-Guera, and ONE-Largo electric bike models are suitable for riding on paved roads, bike paths, gravel and forest trails, as well as off-road terrain. The electric bikes are equipped with tires featuring a more pronounced tread pattern to ensure sufficient traction for off-road riding. **When riding on smooth surfaces (asphalt, concrete, etc.), this may result in vibrations.**

The **e-Cross, ONE-Cross, e-Cross low, ONE-Cross low, e-Gordo, e-Savela, e-Country a ONE-Country** electric bike models are suitable for riding on paved roads, bike paths, and groomed trails.



Electric bikes are not suitable for wading, jumping, or high-impact landings.

Do not use them for extreme riding in rough terrain (downhill, enduro, obstacle riding)!

We recommend assembling and adjusting the electric bike at an authorized electric bike service center.

The electric bike can be used as a regular bicycle without assistance from the electric motor. During non-assisted riding (i.e., assistance OFF), every electric bike generates a certain resistance caused by the gearbox in the motor.

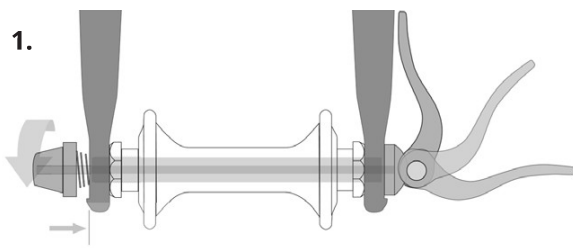
Before your first ride, check:

- Correct bike size: Inappropriately chosen bike size can affect the bike's maneuverability.
- Saddle adjustment: The proper height and position of the saddle affect comfortable riding and bike control. The position of the saddle on the seat post is determined by a scale on the saddle rails, indicating maximum farther and closer positions to the handlebars!
Warning: The seat post has a groove indicating the maximum permissible height for extraction. Never set the seat post above this height! This will prevent damage to the electric bike frame or seat post and potential injury.
- Proper stem height and handlebars.

Regular inspection:

Before each ride, regularly check the condition of your electric bike. This way, many technical problems can be prevented in time. Irregular inspections can have catastrophic consequences in many cases. The lifespan of the frame or components is influenced by the design and materials used, as well as maintenance and intensity of use. Regular inspections by qualified professionals should become a standard practice. Lift the electric bike to a height of 5-10 cm above the ground and release it. This will ensure that everything is sufficiently tightened. Then perform a visual and tactile inspection of the entire electric bike, especially ensuring the proper tightening of all screws, nuts, pedal centre, pedals etc.

Wheels and Tires: Check that the tires are properly inflated. Riding on underinflated or overinflated tires can lead to poor bike control. We recommend following the manufacturer's recommended maximum and minimum tire pressure values, which are indicated on the tire. Check for wear and the correct shape of the tires. If there are bulges or cracks on the tires, they must be replaced before use. Next, perform a check by spinning the wheels to ensure they are properly centered, there are no loose spokes, and no missing spokes. Make sure that both the front and rear wheels are securely fastened (see Figure 1). If dealing with a bike with a solid axle, confirm that the axle is inserted in the correct direction (for the front wheel).



If it is a thru axle wheel, make sure that the axle is installed exactly as shown in the images below.

Procedure for securing wheels using the Maxle Lite thru axle

Open the Maxle lever. The lever must always remain in the recess on the axle flange.

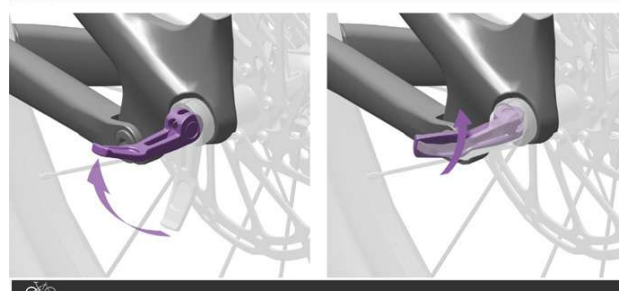
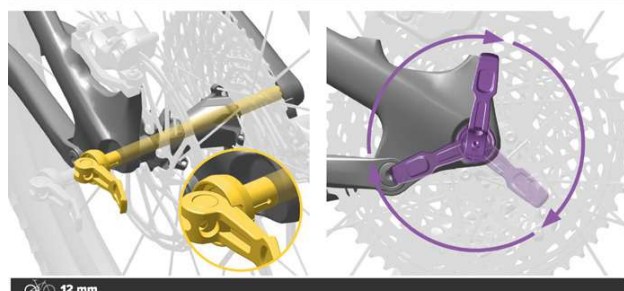
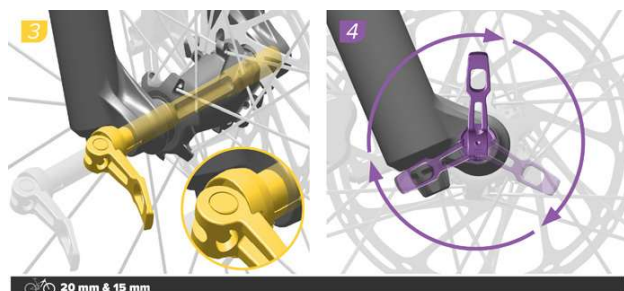


The Maxle lever must not touch the fork or frame when in the closed position. Contact could result in insufficient tension of the lever.

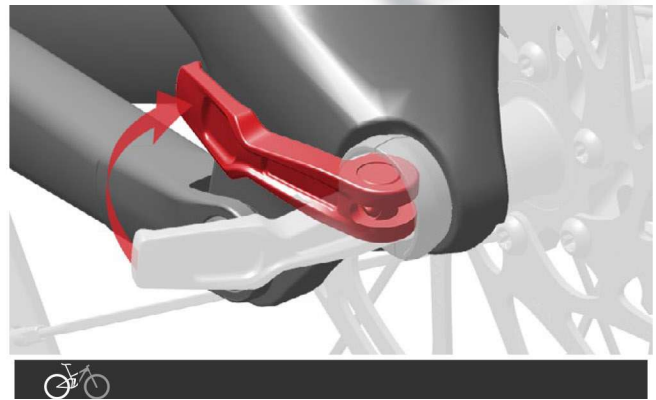


Insert the Maxle axle through the hole in the right fork leg and hub, ensuring it comes into contact with the thread in the recess on the left side. Screw the Maxle axle into the recess by turning the lever clockwise until it stops.

Remove the Maxle axle lever from the recess in the axle flange. Rotate the lever into the intended closed position.



Close the lever and ensure that it does not touch the fork or frame. The tension of the lever is sufficient if it leaves an imprint on your palm.



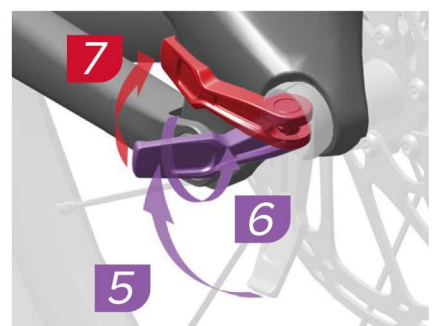
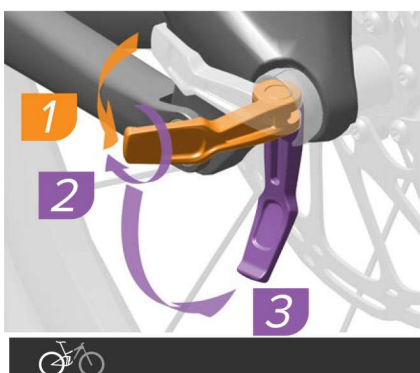
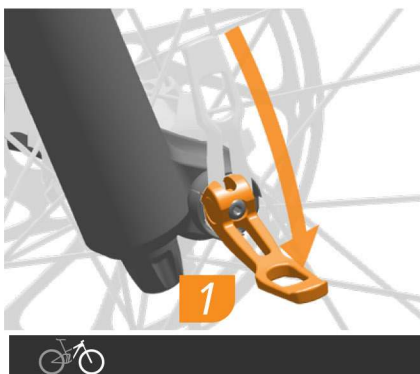
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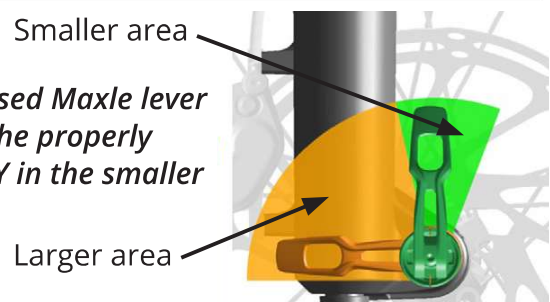
After closing the Maxle quick-release lever, do not attempt to change its position or rotate it. Changing the position or rotating the Maxle lever may cause the axle to loosen, compromising the safety of the axle retention, which could result in serious injury or even death to the rider.

Adjusting spring tension

To increase the tension of the lever, open the lever and place it in the recess. Use a 2.5 mm hex key to turn the tension adjuster one click clockwise. Close the lever and recheck the tension. Repeat this procedure until you achieve the desired tension. Then close the lever in the desired position.



Fork with a 38 mm upper tube diameter: The closed Maxle lever must not be located in the larger shaded area. The properly tightened Maxle lever should be positioned ONLY in the smaller shaded area after closing.



Procedure for securing wheels using the Maxle Ultimate thru axle

Open the Maxle lever. Ensure the lever rests against the hard stop.



The Maxle lever must not contact the fork or frame in the closed position. Contact may result in insufficient lever tension.

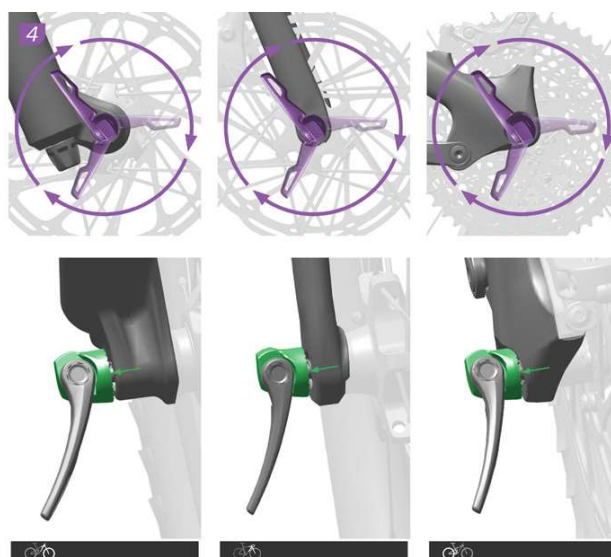
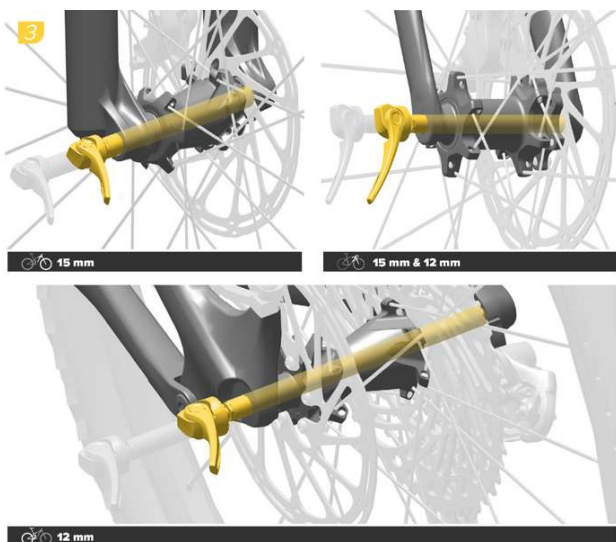
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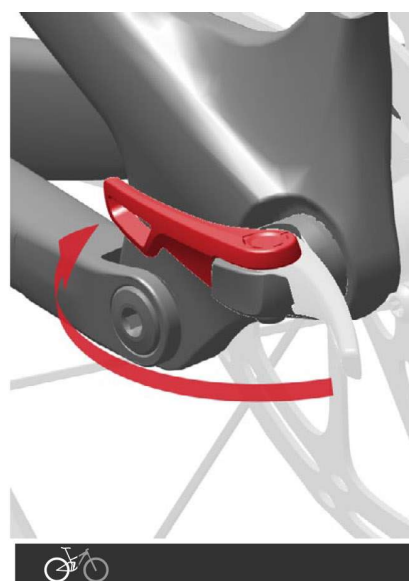
2

Slide the Maxle through the drop out and hub until it contacts the threads of the opposite side drop out.

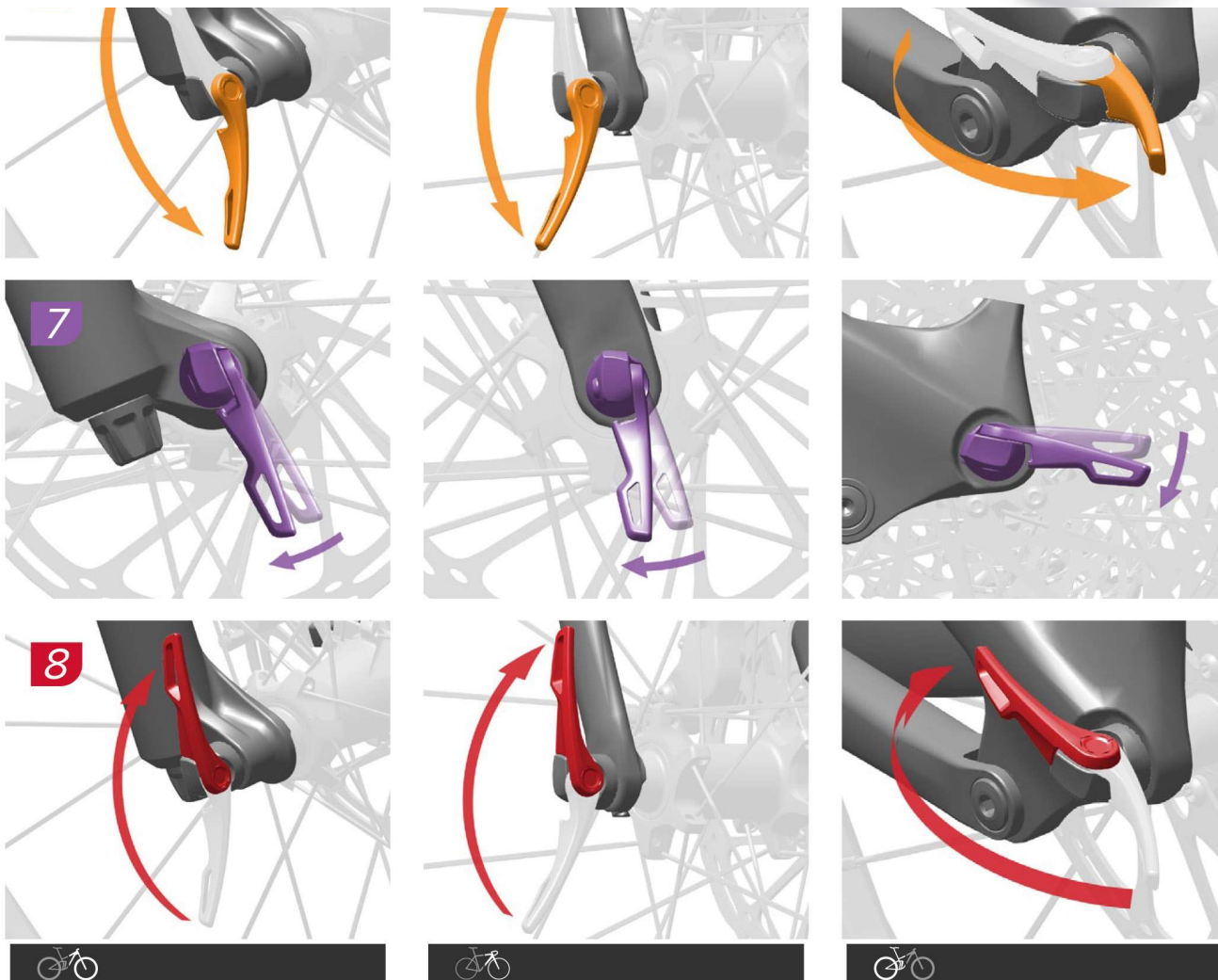
To thread the Maxle into the drop out, rotate the lever clockwise until there is a small gap between the lever head and drop out.



Close the lever and confirm it does not contact the fork or frame. Lever tension is sufficient if the lever leaves an imprint on your hand.



To increase lever tension, open the lever and turn it clockwise. Close the lever to recheck lever tension. Repeat until the tension is sufficient, then close the lever. When the lever is closed, verify there is no gap between the lever head and dropout.

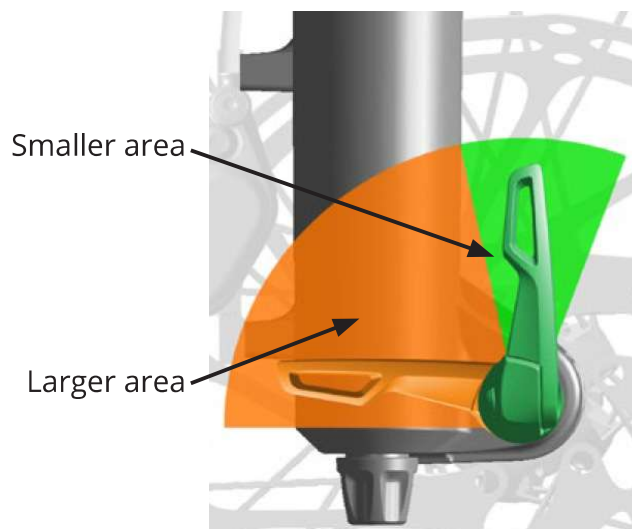
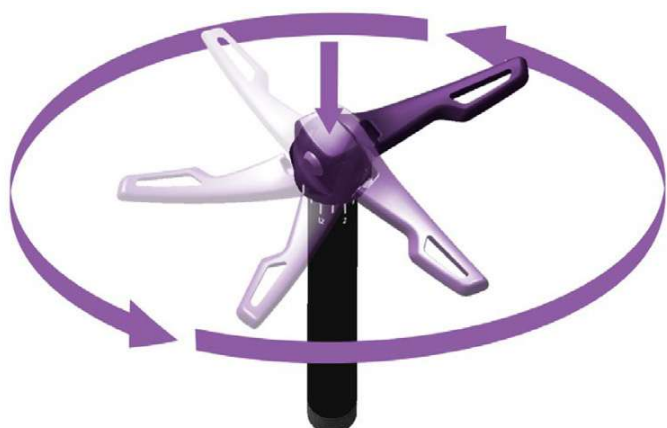


Remove the Maxle and adjust the lever position as needed.

To change the closed position of the Maxle lever, open the lever, press down, and rotate the lever head to the desired position. Adjust the lever until it can be closed without contacting the fork or frame.



Fork with a 38 mm upper tube diameter: The closed Maxle lever must not be located in the larger shaded area. The properly tightened Maxle lever should be positioned ONLY in the smaller shaded area after closing.



X-Fusion Telescopic Seatpost only model 10.10-PRO

Insertion

Stand firmly on the pedals, relieve pressure from the saddle, press the lever towards the handlebars, and slowly lower yourself onto the saddle until you reach the desired height. Then release the lever.

pulling out

Stand firmly on the pedals, relieve pressure from the saddle, squeeze the lever towards the handlebars, and slowly rise until you reach the desired height. Then release the lever. Never use the lever when the saddle is fully loaded.

seatpost control lever



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GX Eagle Transmission derailleur, model 10.10.-PRO only.



For the full manual, visit this link.



User manual for the
GX Eagle Transmission
derailleur

Links to the SRAM AXS mobile app



Android



iOS

Replacing the battery in the controller.

1) Use your finger or a coin to turn the battery cover counter-clockwise to open the battery cover.

1



2) Remove the cover. Remove the battery.

2





To prevent moisture damage do not remove the battery cover o-ring seal.

3) Insert a new CR2032 battery with the positive + sign facing into the cover.



4) Reinstall the battery cover.



5) Use your finger or a coin to turn the cover clockwise to lock it into place.



If you are preparing the bicycle for transport or if you will not be using it for an extended period, remove the SRAM batteries and install battery plugs and covers. If you do not remove the SRAM batteries, they may become discharged. If the battery and AXS component contacts are not protected, they may get damaged.

Removing the derailleur battery

1) Open the battery latch.

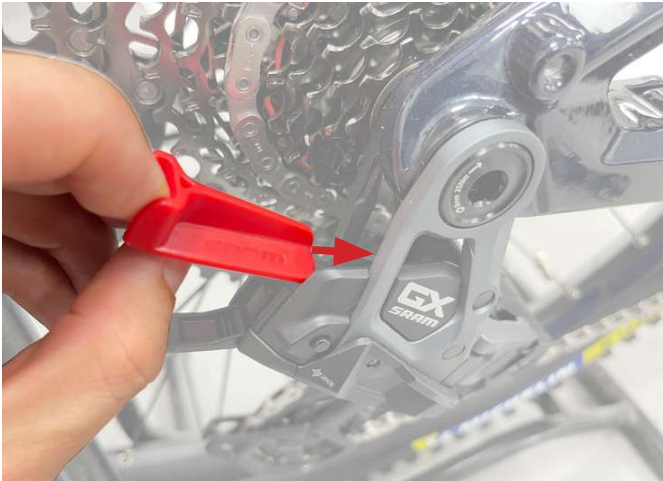


2) Remove the battery.



Inserting a battery block

3) Insert the battery block in place of the battery



4) Close the latch



Battery block



Battery cover



SRAM AXS SINGLE BATTERY CHARGER BASE



FIRE HAZARD

Use only the SRAM-supplied charger cord and charger power supply to charge the battery. The use of other charger cords and power supplies may cause the battery to overheat, catch fire, or explode



1. SRAM Battery

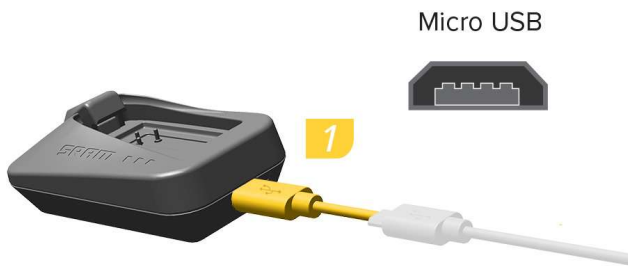
2. SRAM Battery Charger

3. Battery cover

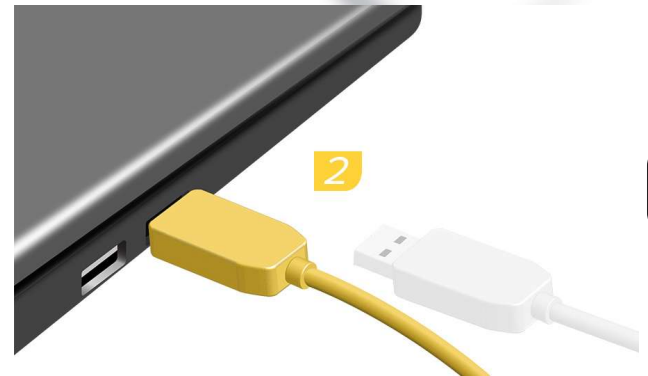
4. LED Charge Level Indicator

5. Micro USB Cable

1) Connect the small end of the USB cable into the Micro USB port on the SRAM charger base.



2) Connect the USB cable to a USB charging port.



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For best charging performance, use a USB 3.0 or later charging port. Connecting to a charging port that precedes USB 3.0 could result in longer charging times. A USB AC adapter is not included with the battery and charger. If using a USB AC adapter, make sure that it supplies a minimum of 1A at 5V.



Do not discard the battery cover. To protect the battery terminals, install the battery cover on the battery when it is not on the charger or component.

The battery will take roughly one hour to reach a full charge when using the recommended USB AC adapter. Charge times may vary based on USB power source.

3) Insert the battery into the charger base. Make sure the battery tab is seated first. The charger LED may take up to 5 seconds to illuminate after the battery has been installed.

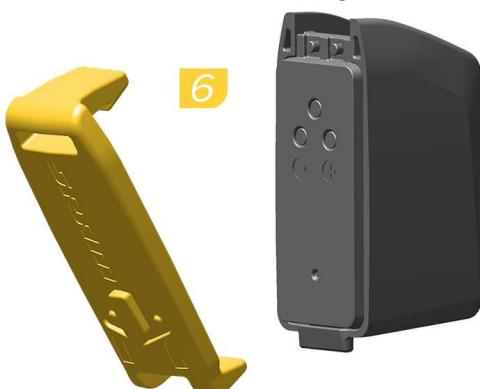


4-5) Press the button on the charger base to release the battery.



6) Be sure to install the battery cover on the battery when the battery is not in use. Failure to cover the battery terminals could result in damage to the battery.

7) Adjust the dial on the battery cover to show the battery charge.



LED INDICATOR STATUS

A solid blue LED indicates the charger is receiving adequate power.

A flashing blue LED indicates the charger is receiving less than optimal power. The battery will still charge, but at a slower pace.

The amber LED indicates the battery is charging.

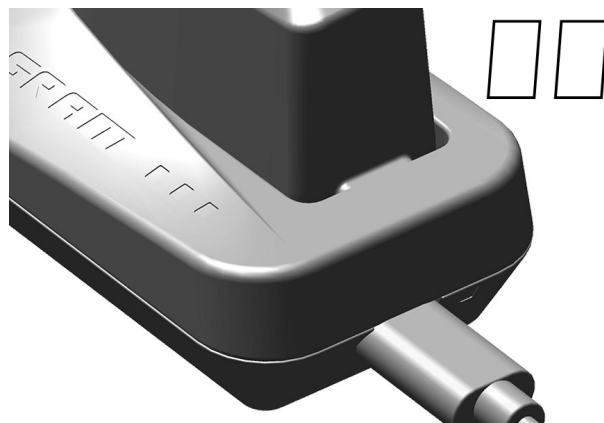
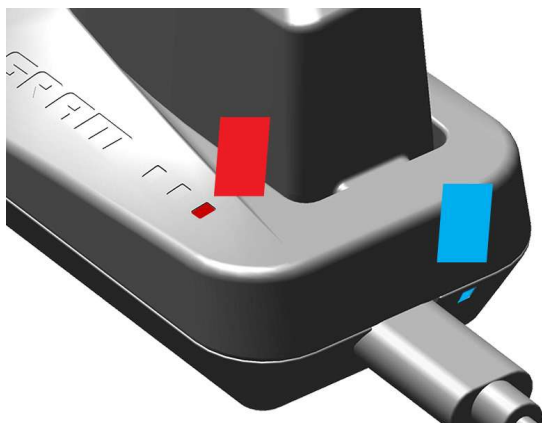


The green LED indicates charging is complete.



TROUBLESHOOTING

A red LED indicates an error has occurred. Remove and reinstall the battery, disconnect and reconnect the charger plug, and if the LED is still red the battery or charger may be defective. Consult your dealer.



If no LEDs illuminate after 5 seconds, check that the plug is fully inserted into the outlet, and that the outlet is supplying standard USB power (1A at 5V). If the LEDs still do not illuminate, consult your dealer.

TECHNICAL SPECIFICATIONS

MODEL RECHARGEABLE LITHIUM-ION POLYMER BATTERY: 25403

- Cell Type: 300 mAh / 3.7 V
- Block Assembly: 2S1P
- Voltage at End of Discharge Cycle: 6.0 V DC
- Nominal Voltage: 7.4 V DC
- Rated Capacity*: 300 mAh
- Minimum Capacity*: 290 mAh
- *at discharge rate of 0.2 C, voltage 3.0 V, disconnected after standard charge
- Average Operating Voltage: 7.4 V at 0.2 C
- Constant Voltage: 8.4 V
- Battery Weight: 23 g
- Maximum Cell Length: 30.0 mm
- Maximum Cell Width: 19.0 mm
- Maximum Cell Thickness: 6.0 mm

Operating Temperature Range (Standard Charging): 0 °C to 45 °C

Operating Temperature Range (Discharge): -20 °C to 60 °C

MODEL CHARGER FOR ONE BATTERY 25403

- The charger is designed to meet safety standards for electromagnetic interference when used as an information technology equipment device.
- Nominal Input Voltage: 5 V DC
- Maximum Nominal Output Voltage: 8.4 V DC

Charging Temperature Range: 0 °C to 60 °C

Storage Temperature Range: -40 °C to 70 °C

Relative Humidity during Operation and Storage: 10% to 80%

MAINTENANCE

- For best results, keep the battery clean and dry.
- Battery connectors can be gently cleaned with a dry cloth.
- Store the battery at room temperature away from excessive heat or cold.
- If not in use, cover the battery with its cover.
- Install the derailleur battery packs and their covers before riding to prevent battery depletion.



If the battery or charger is damaged or dropped, or if it has been modified, do not use it. Never throw the battery into fire.

RECYCLING

- Always replace the SRAM battery with an original SRAM battery.
- Always replace the AXS remote battery with a CR2032 button cell battery.

Brakes: Perform a functionality check of the brakes. Squeeze both brake levers and push the bike forward. Are the brake pads fully in contact with the brake disc without the levers touching the handlebars? If not, the brakes need to be adjusted (bled). Check if the brake pads are worn. Brake pads and discs wear out with use, so it is necessary to regularly service the brakes and replace worn components in a timely manner. Z pohledu sedícího jezdce na elektrokole pravá brzdová páka ovládá zadní brzdu a levá brzdová páka přední brzdu. From the perspective of a seated rider on the electric bike, the right brake lever controls the rear brake, and the left brake lever controls the front brake.

Shifting and Chain: The chain requires regular maintenance to prolong its lifespan. Before lubricating, it is advisable to clean the chain and derailleur pulleys. Use products specifically designed for chain lubrication. Chains naturally stretch over time. The durability of a chain is highly individual and depends on the chain quality, mileage, riding style, and terrain. Regular replacement is necessary. The condition of the chain can be checked using a special gauge. A stretched or damaged chain can damage the chainrings and pulleys. Shifting causes wear and stretching of the shift cable. Shifting needs to be regularly adjusted to ensure proper shifting. Fine adjustments can be made by loosening or tightening the cable nut at the shift lever. For the 10.10-PRO model, use the mobile app.

If you disconnect the chain on the 10.10-PRO model, you must replace the chain PowerLock with a new one.

Fork: With CRUSSIS bikes, you can encounter various kinds and types of fork.



You should never lock the fork while riding off-road or during jumps. It can cause damage to the fork when compressed under heavy load. This can also result in accidents and injuries.



Please also note that the fork is not intended for riding in extremely demanding terrain, jumps, downhill, freeride, or dirt jumps. Disregarding these instructions can result in damage to the fork, accidents, or even death. Failure to comply with these instructions will void the warranty.

SR SUNTOUR suspension fork

SR SUNTOUR XCM HLO DS 26"

(e-Atland 6.10, e-Guera 6.10)

Travel: 100 mm

Stanchion diameter: 30 mm

Steerer tube: 1 1/8"

Suspension: hydraulic damping with oil/spring

Lockout: Crown

Axle: QR 9 mm

SR SUNTOUR NEX HLO DS 700c

(e-Cross 7.10, ONE-Cross 7.10, e-Cross low 7.10, ONE-Cross low 7.10, e-Gordo 7.10, e-Savela 7.10)

Travel: 63 mm

Stanchion diameter: 28 mm

Steerer tube: 1 1/8"

Suspension: hydraulic damping with oil/spring

Lockout: Crown

Axle: QR 9 mm

SR SUNTOUR XCM32-ATB NLO DS 27,5"

(e-Country 7.10, ONE-Country 7.10)

Travel: 100 mm

Stanchion diameter: 32 mm

Steerer tube: 1 1/8"

Suspension: hydraulic damping with oil/spring

Lockout: Crown

Axle: QR 9 mm

SR SUNTOUR XCM32 NLO DS 29

(e-Fionna 7.10, e-Largo 7.10, ONE-Largo 7.10)

Travel: 100 mm

Stanchion diameter: 32 mm

Steerer tube: 1 1/8"

Suspension: hydraulic damping with oil/spring

Lockout: Crown

Axle: QR 9 mm

SR SUNTOUR XCM32 NLO DS 27,5"

(e-Atland 7.10, e-Guera 7.10 ONE-Guera 7.10)

Travel: 100 mm

Stanchion diameter: 32 mm

Steerer tube: 1 1/8"

Suspension: hydraulic damping with oil/spring

Lockout: Crown

Axle: QR 9 mm

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IMPORTANT SAFETY INFORMATION

1. It is very important to have the SR-Suntour suspension fork installed correctly by a qualified bicycle mechanic. Improperly installed forks are extremely dangerous and can cause serious or fatal injuries.
2. The fork on your bike is designed for use by a single rider on mountain roads and similar terrain conditions. It is not advisable to drive off-road when the fork is locked.
3. Before driving, make sure that the brakes are properly installed and adjusted. Use the brakes carefully and familiarize yourself with their properties and braking performance in non emergency conditions. Hard braking or improper use of the front brake can cause you to fall. If the brakes are not properly adjusted or improperly installed, the rider can be seriously or fatally injured.
4. Under certain circumstances, the fork may malfunction, including if oil is lost, components or parts of the fork are bent or cracked. The fault in the fork may not be visible. Do not ride a bicycle if you notice bent or broken fork parts, oil loss, sounds due to excessive suspension, or other indications of a possible fork defect, such as loss of shock absorbing properties. Take your bike to a qualified dealer for inspection and repair. Damage to the fork may result in wheel damage or personal injury. Suspension forks and rear shock absorbers contain highly pressurized liquids and gases. The warnings in this manual must be followed to prevent injury or death. Never try to open the cartridge or the rear silencer, they are under a lot of pressure, as mentioned above. If you try to open the cartridge or the rear absorber, you risk serious injuries.
5. Always use genuine SR-Suntour parts. The use of non-original spare parts will void the warranty and may cause a structural defect in the fork. A structural failure can cause you to lose control of your bicycle with possible serious or fatal injuries.
6. If you use a bike carrier on a car, the instructions for use of the bike carrier must be followed during any handling. If you are carrying the bike in a carrier on or behind the car in bad weather, you need to protect the bike from water with a suitable cover. Because when driving in the rain, e-bike is exposed to pressure of the water and it is equal to a pressure washing, which can seriously damage the bike.
7. The fork is designed to secure the front wheel with a quick release or thru-Axle. Make sure you understand which shaft your wheel has and how to handle it properly. Do not use a screw on the

shaft. An incorrectly mounted wheel can allow the wheel to move or release, this can cause the damage to the bicycle and serious injury or death to the rider.

8. Follow all instructions in the user manual regarding care and maintenance of this product.

Coil spring preload

The fork can be adapted to the rider's weight and preferred travel style by means of a spring preload. The preload is to be set, not the hardness of the coil spring. This reduces the „SAG“ fork when the rider sits on the bike. A medium hard spring is used as standard. Turn the preload wheel clockwise to increase the preload and turn it counterclockwise to decrease it. SR Suntour forks offer two more types of spring hardness. Softer and harder than a standard spring.

Locking system

The SR SUNTOUR fork „lock“ function prevents movement, popularly called fork swinging, when you ride standing or uphill. The fork is not 100% locked. There are a few millimeters to prevent the oil cartridge from penetrating. This system protects the fork if you forget to unlock it in terrain.

Closing from the fork crown

To lock the fork, turn the “Speed lock-out” lever 90 ° clockwise. To unlock, turn counterclockwise.



INSPECTION AND MAINTENANCE

SR SUNTOUR forks are designed to be almost maintenance-free. But because moving parts are exposed to moisture and dirt, your fork's performance could be reduced after a few rides. Regular service and maintenance is required to ensure high performance, safety and long life of the fork.

Before each ride

If you find any cracks, dents, abrasions, deformations, oil leaks on the fork or other components, contact a qualified mechanic to inspect the fork or e-bike.



Keep in mind that failure to maintain of the fork according to the manual will void the warranty. Do not use high pressure cleaners or other procedures that use high pressure water for cleaning. There may be water flowing through the dusters into the fork.

If you use the bike in extreme conditions (e.g. in winter) or in extreme terrain, we recommend performing maintenance more often than indicated in the table below.

If you think your fork's performance has dropped or is behaving differently, immediately contact a specialized service and have the fork checked.

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After each ride

Clean the fork legs and duster with an oiled cloth with a suitable oil (eg Brunox Deo, etc.). If an unsuitable product is used, there is a risk of irreversible damage to the fork. Check the legs for scratches.

Every 50 hours drive

MAINTENANCE A - at the dealer or service technician.

Every 100 hours drive

MAINTENANCE B - at the dealer or service technician. Ideally before the winter, so that the fork will be ready for extreme weather.

MAINTENANCE A

Check the functionality of the fork. Check the tightening of all bolts and nuts (10 Nm). Check the legs for scratches, dents, cracks, discoloration, signs of wear, and signs of beginning corrosion. Perform maintenance with an oiled cloth.

MAINTENANCE B

Maintenance A + disassembly. Complete fork cleaning inside and out. Cleaning and lubrication of dusters and cleaning rings. Tightening check. Adaptation to the rider's preferences. Check the fork clearance by braking the front wheel and gently pushing the stem forwards and backwards prior to disassembly. If there is clearance in the fork, send it to authorized SR SUNTOUR service center.



Please note that all SR SUNTOUR cartridges and metal cases are subject to normal wear and their durability and proper functionality are very individual and depend on mileage, driving style, terrain and the environment in which you drive. Metal cases have a one-year limited warranty, plastic cases have a six-months warranty. We do not recommend using oils containing teflon on a fork with plastic bushings, there is a risk of etching the bushing.

Suspension fork ROCKSHOX

ROCKSHOX FS Judy Silver TK SoloAir 29"

(e-Fionna 9.10, e-Largo 9.10,
ONE-Largo 9.10)
Travel: 100 mm
Stanchion diameter: 30 mm
Steerer tube: 1 1/8"
Suspension: SoloAir
Lockout: Crown
Axle: QR 9 mm

ROCKSHOX FS Paragon Gold RL SoloAir 700c

(e-Cross 9.10, ONE-Cross 9.10,
e-Cross low 9.10, ONE-Cross low 9.10)
Travel: 65 mm
Stanchion diameter: 30 mm
Steerer tube: 1 1/8"
Suspension: SoloAir
Lockout: Crown
Axle: QR 9 mm

ROCKSHOX FS Psylo Silver RC SoloAir 27,5"

(e-Guera 10.10, ONE-Guera 10.10,
e-Atland 10.10)
Travel: 130 mm
Stanchion diameter: 35 mm
Steerer tube 1,5" Tapered
Suspension: SoloAir
Lockout: z vidlice (korunky)
Axle: 15x110 mm (Maxle Lite)

ROCKSHOX FS Recon Silver RC SoloAir 27,5"

(e-Country 10.10, ONE-Country 10.10)
Travel: 100 mm
Stanchion diameter: 32 mm
Steerer tube: 1,5" Tapered
Suspension: vzduchové SoloAir
Lockout: z vidlice (korunky)
Axle: 15x110 mm (Maxle Lite)

ROCKSHOX FS Judy Silver TK SoloAir 27,5"

(e-Atland 9.10, e-Guera 9.10, ONE-Guera 9.10)
Travel: 100 mm
Stanchion diameter: 30 mm
Steerer tube: 1 1/8"
Suspension: SoloAir
Lockout: Crown
Axle: QR 9 mm

ROCKSHOX FS Psylo Silver RC SoloAir 29"

(e-Fionna 10.10-M, e-Largo 10.10-M,
ONE-Largo 10.10)
Travel: 130 mm
Stanchion diameter: 35 mm
Steerer tube: 1,5" Tapered
Suspension: SoloAir
Lockout: Crown
Axle: pevná 15x110 mm (Maxle Lite)

ROCKSHOX FS Pike Ultimate DebonAir+ 29"

(e-Hard 10.10-PRO)
Travel: 130 mm
Stanchion diameter: 35 mm
Steerer tube : 1,5" Tapered
Suspension: vzduchové DebonAir+
Lockout: z vidlice (korunky)
Axle: 15x110 mm (Maxle Ultimate)

Lockout: Crown



Illustrative image

IMPORTANT SAFETY INFORMATION

1. It is very important to have the RockShox fork properly installed by a qualified bicycle mechanic. Improperly installed forks are extremely dangerous and can cause serious or fatal injuries.

2. The fork on your bike is designed for use by a single rider on mountain trails and similar terrain conditions. It is not recommended to ride off-road with the fork locked out.

3. Before riding, ensure that the brakes are properly installed and adjusted. Use the brakes cautiously and familiarize yourself with their characteristics and braking effectiveness under non-emergency conditions. Hard braking or improper use of the front brake can cause you to fall. Improperly adjusted or incorrectly installed brakes can result in serious or fatal injuries to the rider.

4. Under certain circumstances, a fork malfunction can occur, among other things, in the event of oil loss, bending or cracking of components, or fork parts. Fork malfunction may not be visible. Do not ride the bicycle if you notice bent or broken fork parts, oil loss, sounds caused by excessive rebound, or other indications of possible fork malfunction, such as loss of shock absorption. Take your bike to an authorized dealer for inspection and repair. In the case of fork malfunction, damage to the bike or personal injury may occur. Suspension forks and rear shock absorbers contain highly pressurized fluids and gases. The warnings in this manual must be followed to prevent injury or death. Never attempt to open the cartridge or rear shock absorber, as they are under high pressure, as mentioned above. If you attempt to open the cartridge or rear shock absorber, you risk serious injury.

5. Always use genuine RockShox parts. The use of non-original replacement parts voids the warranty and may cause structural fork failure. Structural failure can result in loss of control of the bicycle with possible serious or fatal injuries.

6. If you use a bike rack on your car, always follow the instructions provided with the rack for any handling procedures. If you transport the bike on a car rack or behind a car in adverse weather conditions, protect the bike from water with a suitable cover, as driving in the rain applies water pressure to the bike as if it were subjected to high-pressure washing, which can seriously damage the bike.

7. The fork is designed to secure the front wheel using a quick-release or thru axle. Make sure you understand what type of axle your bike has and how to handle it correctly. Do not use a screw on the axle. Improperly mounted wheel may allow movement or detachment from the bicycle, resulting in damage to the bike and serious injury or death to the rider.

8. Follow all instructions in the user manual regarding the care and maintenance of this product.

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INSPECTION AND MAINTENANCE

Before each ride,

If you notice any cracks, dents, scratches, deformations, oil leaks on the fork or other components, contact a professional mechanic to inspect the fork or bike.

Check the air pressure. Load the fork with your full weight. If it feels soft, pump the fork to the desired firmness. (For more information, refer to the "Air Pressure Adjustment" section).

Check the wheel attachments and cable/housing routing - they must not restrict handlebar movement in any way.

After each ride,

Clean off dirt and debris. Do not use high-pressure cleaning devices - water may seep through the dust seals into the fork.

Apply lubrication to dust seals and fork stanchions. Do not use oil that is not intended for forks. Consult the dealer for the appropriate oil to use.

Every 25 hours of riding,

Check the oil fill.

Checking the correct tightening torque of the fork brackets and other components.

Cleaning and lubricating the inner cable and bowden.

Every 50 hours of riding,

Remove the dampers, clean/check the bushings, and replace the oil fill if necessary.

Clean and lubricate the air damper assembly.

Every 100 hours of riding,

Perform a complete internal and external fork cleaning, clean and lubricate dust seals and wiper seals, replace the oil in the damping system, check tightening and adjust to rider preferences.

Before disassembly, check for fork play by holding the front brake and gently pushing the handlebar forward and backward. If there is play in the fork, contact a professional mechanic.

Air Pressure Adjustment

1. Unscrew the valve cap. Screw the pump nozzle designed for forks onto the valve.
2. Pump the fork to the desired pressure. Never exceed the maximum pressure allowed by the manufacturer. You can find the recommended pressure and maximum pressure in the table below or on the fork leg.





Use only pumps designed for inflating RockShox forks and shock absorbers. Using an unsuitable inflator can damage the fork! When inflating, the fork must be unlocked, otherwise there is a risk of damage! Please note that all Rock Shox forks are subject to normal wear and tear and their durability and proper function is very individual and depends on mileage, riding style, terrain and the environment in which you ride. It is not recommended to use oils containing Teflon on forks with plastic bushings, there is a risk of the bushings sticking.

Frame: Do not use a bent or cracked frame. Under no circumstances should you attempt to straighten or repair the frame on your own. Consult your CRUSSIS e-bike dealer if the frame is damaged. Most CRUSSIS e-bikes have frame preparations for attaching a basket. We recommend using side baskets (for bottle removal) to prevent bolts from breaking.

Bike Load Capacity: The bike load capacity stated in the specifications of each model is the sum of the rider's weight, bike weight, weight of any currently attached accessories (rack, fenders, etc.), and cargo weight.



Always keep all components clean. If you wash the e-bike with water (do not use high-pressure cleaning devices for cleaning the bike or its individual parts), always remove the battery from the bike before washing. Dry the e-bike before reattaching the battery. After each ride, we recommend drying the bike, especially all electrical components. During the winter season, pay extra attention to the maintenance of the e-bike, always clean the components from salt and moisture after riding. Perform maintenance at regular intervals. The recommended tire pressure can be found directly on the side of the tire!

This manual is universal for the Panasonic GX series propulsion system.

All models of the Panasonic 6.10, 7.10 series are equipped with GX Power Plus motors.
All models of the Panasonic 9.10, 10.10, 10.10-PRO series are equipped with GX Ultimate motors.

System: **Panasonic GX power plus**

Maximum Torque: 75 Nm

Power: 250 W

Weight: 3,2 kg

Durability: IPX5

Pedal Sensor: Torque and Speed

System: **Panasonic GX Ultimate**

Maximum Torque: 95 Nm

Power: 250 W


Weight: 2.95 kg

Durability: IPX5

Pedal Sensor: Torque and Speed



ELECTRIC BIKE SYSTEM

Motor activation is achieved through a torque (pressure, force) sensor integrated into the bottom bracket. The torque sensor evaluates both the frequency and force of pedaling, transmitting this information to the control unit, which then adjusts the motor's power output based on the force applied while pedaling. The electric bike motor activates after approximately one pedal rotation and deactivates after 1-2 seconds of pedal interruption. The motor disengages when a speed of 25 km/h is reached and reactivates when the riding speed falls below this threshold. This complies with all European standards, maintaining the classification of a bicycle. The electric bike is equipped with an LCD panel that controls the electric assist. The display (controller) allows you to select different assist modes ranging from OFF to HIGH. The highest assist mode is HIGH, while the OFF mode operates without electric motor assistance. The LCD panel also features a "walk assist"  function, enabling the bike to reach speeds of up to approximately 6 km/h without pedal assistance. The walk assist function aids in pushing or starting the bike and is not intended for continuous riding.

Optional Riding Programs:

[HIGH] *1 Strong motor assistance is provided on flat roads and uphill roads.

[AUTO] *1 Motor assistance automatically adjusts based on road conditions.

[STD] *1 Moderate motor assistance is provided on flat roads and uphill roads.

[ECO] *1 Slight motor assistance is provided on flat roads and uphill roads.

[OFF] *1 No motor assistance.

*1 Motor assistance may vary based on weather conditions, road conditions, bike condition, or riding style.



The motor assistance modes are graduated, ranging from ECO (lowest assistance) to HIGH (highest assistance), assisting up to a speed of 25 km/h. The torque sensor conveys pedaling force information, with the electric motor providing more assistance as you pedal harder. Walk assist: the bike travels at speeds of up to approximately 6 km/h and assists in starting or pushing. This function is not intended for continuous riding! The speed and power of the walk assistant depend on the selected gear ratio (larger chainring for lower speed but greater force, suitable for uphill - smaller chainring for higher speed but less force, suitable for flat terrain). To ensure proper walk assist function, it is recommended to use smaller chainrings.

BATTERY INFORMATION

Currently, the most commonly used batteries are lithium-ion (Li-ion) batteries. The main advantage of these batteries lies in their low weight and long lifespan. Li-ion batteries have very low self-discharge rates. From the first charge, it's important to keep the battery within its operational cycle (discharging/charging). Even when not in use, the battery will experience natural self-discharge, which is normal. We recommend regularly recharging the battery, even if the electric bike is not being used, approximately once a month, and storing it at a charge level of 60-80% capacity. Otherwise, there's a risk of damaging the battery, which could lead to reduced range or, in more severe cases, complete malfunction. Regular recharging extends the battery's lifespan. Before the first use, we suggest fully charging the battery. As Li-ion batteries do not have a memory effect, they can be recharged at any time. Maximum capacity is typically reached after about 5-10 charge cycles. Keep the battery in a charged state and recharge it after each ride, rather than waiting until just before the next ride. Li-ion batteries are 100% recyclable. You can return the battery to any collection point or directly to the dealer. The battery is recharged using the supplied charger at 230/240V, and the charging time is approximately 5-9 hours (depending on battery capacity and discharge level). During charging, the battery can remain on the electric bike or be removed. To remove the battery, turn the key and then extract it. The battery has an IP X5 rating.



Always turn off the electric bike system before charging the battery! Never immerse the battery in water (any fluids), do not store it in a humid environment, and do not disassemble it. Before each ride, please ensure that the battery is properly seated and locked. CRUSSIS bikes may come with several types of batteries. Unlock the battery by turning the key to the left and thus releasing it. Lock it by turning it to the right. Alternatively, unlock the battery by turning the key to the left and secure it by snapping the battery onto the frame. Some models may be equipped with a battery safety catch, see the image below. To remove the battery, the Battery safety catch must be pressed down towards the motor.

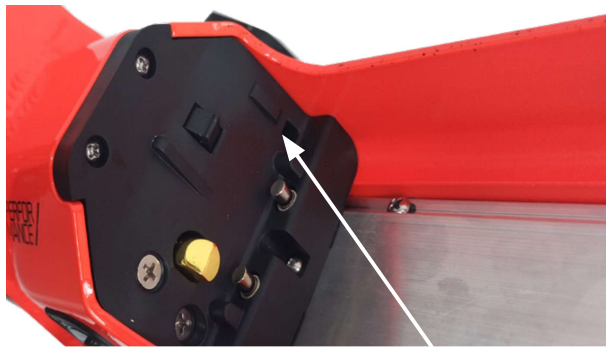
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Frame battery 1 - fully integrated 518Wh or 720Wh



Inserted battery latch

First, attach the connector, then snap it to the lock.



Battery lock



Battery indicator, power on/off button.

Battery charging connector for charger connection.

Battery safety catch



You can turn on the battery with a short press of the power button, during which the LED located near the button flashes in green-blue-red sequence. The last color that remains lit and turns off after about 4 seconds indicates the current battery charge status.

If the battery is turned on, you can check the battery charge status with a short press of the button. For approximately 4 seconds, the battery LED will light up in a color corresponding to the current battery charge level:

100 - 71%	blue light
70 - 31%	green light
30 - 11%	red light - assistance power may gradually decrease
10 - 0%	blinking red light until 0

The representation of the battery charge level on the control panel is only approximate. If the motor stops running smoothly and operates intermittently, the battery capacity is too low. In this case, it is necessary to turn off the electric propulsion system. Continue riding without motor assistance and ensure the battery is recharged.

To turn off the battery, press and hold the button for about 3 seconds until the LED starts flashing in green-blue-red sequence. When inserting the battery into the electric bike, the battery will always turn on automatically, and the LED on the battery will start flashing in green-blue-red sequence. If you don't intend to use the electric bike immediately, we recommend turning off the battery by pressing the battery button for an extended period.


These battery functions apply to **Frame Battery 1** and **Frame Battery 2**.

Frame battery 2 - fully integrated 522Wh, 720Wh or 900Wh



(1) Battery indicator, power on/off button

(2) Battery charging connector for charger connection

 *When removing/inserting the battery, hold the battery with both hands.*

Removing the battery from the frame

Insert the key and turn it to the left



The battery will pop out



The safety catch of the battery



Push the safety catch towards the battery while pushing the battery upwards



Remove the battery



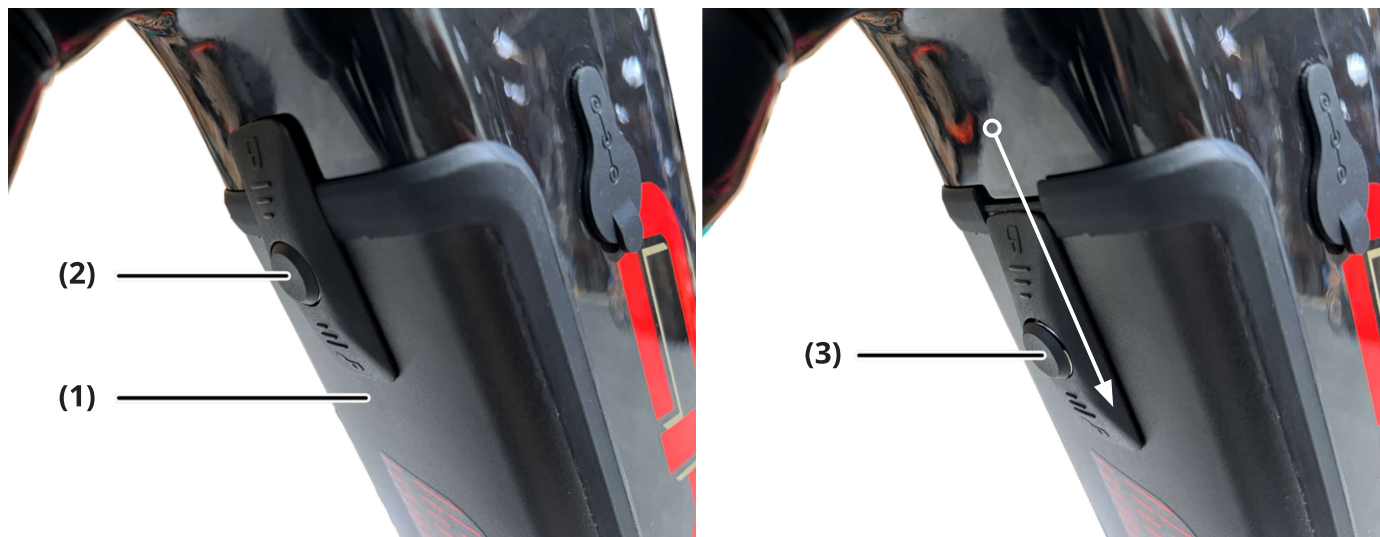
When inserting the battery into the frame, follow the opposite steps as when removing it. First, attach the connector, then snap the battery into the frame.



Frame battery 3 - fully integrated with cover, 522W, 720Wh or 900Wh

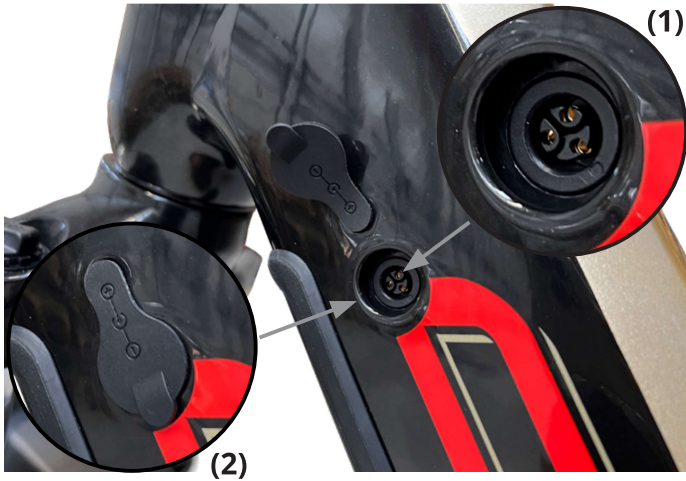
Removing the battery cover.

Before removing the battery, you must take off the battery cover **(1)**, which is done by pressing and holding the button **(2)** on the battery cover **(1)** towards the bike, and then sliding the entire latch **(3)** as shown in the image below, towards the motor. Flip open the cover **(1)** as shown in the image below and remove it towards the fork, releasing the latch **(4)**.



When putting on the cover, follow the reverse procedure.

First, attach the latch **(4)** of the cover, then close the cover, press the latch button **(2)** towards the bike and slide the entire latch towards the handlebars.



(1)

(1) Battery charging connector

(2) Opening with a rubber cover in the frame for charger connection to the battery

(3)

(3) Battery indicator, power on/off button

(4) Power on/off button on the frame



(4)



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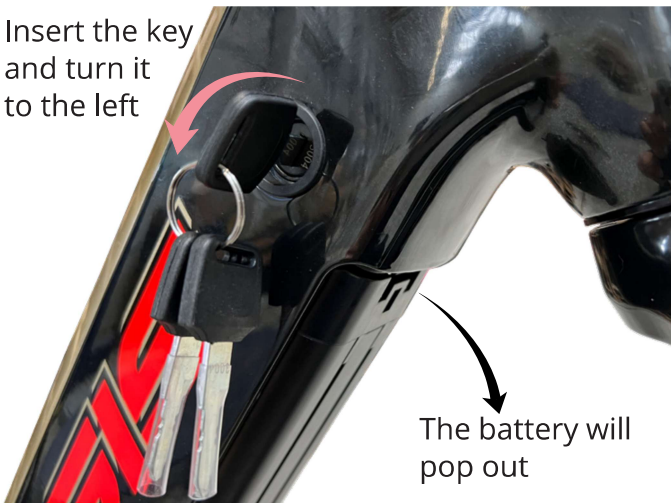
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Removing the battery from the frame

Insert the key and turn it to the left



The battery will pop out



The safety catch of the battery

By pressing the safety catch, you release the battery



Remove the battery



When inserting the battery into the frame, follow the opposite steps as when removing it. First, attach the connector, then snap the battery into the frame.



When removing/inserting the battery, hold the battery with both hands.



Always turn off the electric bike system before charging the battery! Never submerge the battery in water (any liquids), do not store it in a damp environment, and do not disassemble it. Before each ride, please ensure that the battery is properly seated and locked in place.

To turn on the battery in the bike, press the power button **(4)** on the upper frame tube briefly. The button will blink several times and then remain illuminated. To turn off the battery, press and hold the power button **(4)** again until it turns off. The light signal from button **(4)** is only for indicating whether the battery is in operation or not; it does not indicate the battery charge level. For that purpose, refer to the battery indicator, but it is not visible when the battery is inserted in the frame. By briefly pressing button **(3)** on the battery, you can turn on the battery outside of the electric bike. The LEDs on the battery will briefly illuminate, indicating the current battery charge level.

100 - 99%	All 3 LEDs are lit.
98 - 67%	First 2 LEDs are lit, and the third LED blinks.
66 - 34%	First LED is lit, second LED blinks, and the third LED is off.
33 - 0%	First LED blinks, and the other LEDs are off.



The numbers are not depicted on the battery; they are only used to specify the order of the LEDs.

The first LED is red, the others are green.

The representation of the battery charge level on the control panel is for reference only. If the motor loses its smooth operation and runs intermittently, the battery capacity is too low. In this case, it is necessary to turn off the electric propulsion system. Continue riding without motor assistance and ensure battery recharging.

To turn off the battery, press and hold the button for about 3 seconds until the LEDs go off. When inserting the battery into the electric bike, the battery will always turn on automatically. If you don't intend to use the electric bike immediately, we recommend turning off the battery by holding down the power on/off button on the bike frame or, if the battery is removed from the frame, by holding down the battery button for an extended period.



The behavior of the battery LED may vary depending on the battery firmware. Do not turn on the display while charging the battery on the bike. If you turn it on during charging, it will automatically turn off after approximately 3 seconds.



The battery charge status displayed on the screen is for reference only. In the case of excessive battery overheating, it will automatically turn off. The battery is equipped with a thermal sensor for protection. Once the battery cools down to operational temperature, you can resume riding. Battery heating is a common occurrence during operation. We recommend keeping the battery keys separate, and in case of loss, avoid carrying all of them together.

Charging

Charger 1

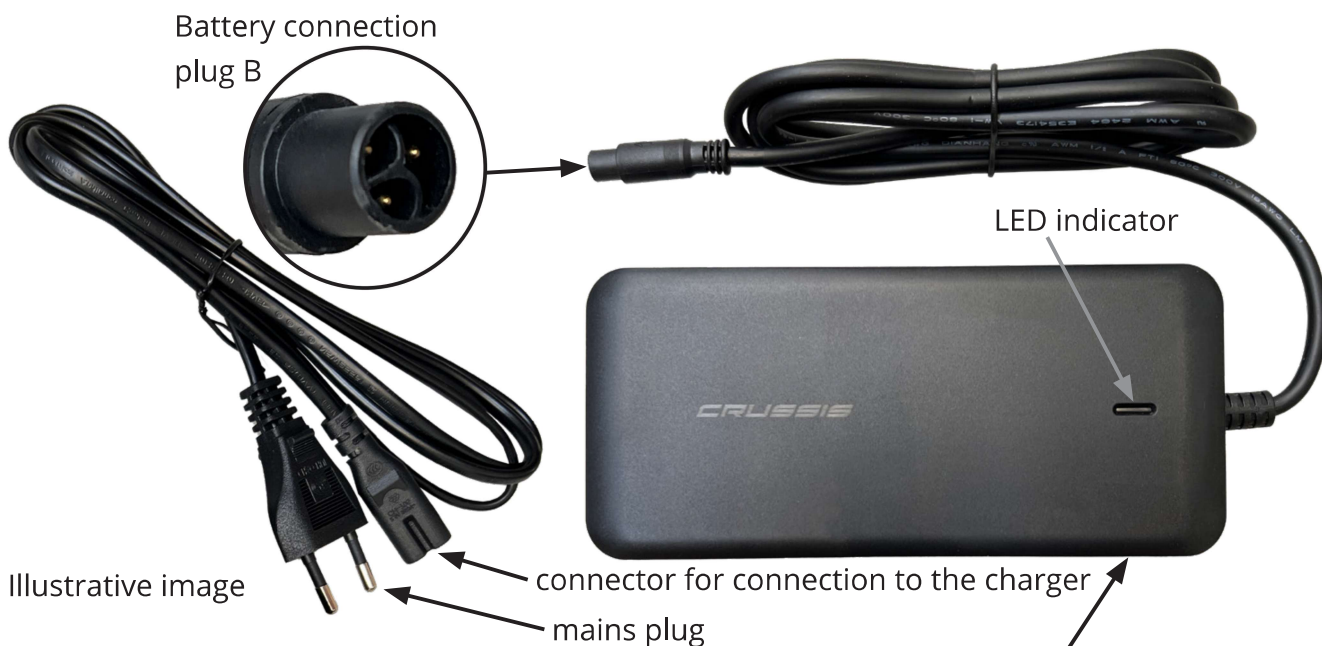
For frame batteries 522 Wh and lower



This 2.0A charger can only be used to charge Panasonic e-bike batteries with a capacity of **522 Wh and lower**.

Charger 2

For frame batteries 720 Wh and above.



This 4.0A charger can only be used to charge Panasonic e-bike batteries with a capacity of **720 Wh and higher**. It must not be used for lower capacities.

Connect the charger to the battery and then to the power outlet.

Once the charger is connected to the electrical outlet, the red LED on the charger will light up, indicating the start of the charging process.

During the charging process, the LED on Frame Batteries 1 and 2 will blink in green. At the end of the charging process, it will glow blue. This indicates that the battery is fully charged to 100%. If the LED on the charger continues to show red after charging, it indicates cell balancing.

After cell balancing, the LED on the charger will turn green again. Only at this moment is the battery fully charged and ready for use.


The duration of cell balancing will increase depending on the age of the battery. For Frame Battery 3, the LED behavior will follow the description on the previous pages.

The behavior of LEDs on Frame Batteries 1-3 may change after a firmware update.

We recommend performing the charging process, including cell balancing, at least every third charge. The time to charge the battery to 100% is between 5 to 9 hours, depending on the level of depletion and battery capacity.

After completing the charging process, first disconnect the charger from the electrical outlet, and then from the battery.

Interrupting the battery charging process does not cause damage. The battery is of the Li-ion type, with a nominal voltage of 36V, charged to 42V, and fully charged reaching 42V.

 ***Charge the battery at room temperature (approximately 20°C). When charging, always supervise the charging battery (e-bike). Charging the battery at temperatures below 10°C and above 40°C can seriously damage the battery. Only use the charger provided with the e-bike for battery charging. The battery is sensitive to precise charging; using a different charger may result in battery or other e-bike component damage. In case the charger (or power cable) is damaged, never connect it to the electrical outlet. Before charging, ensure that the e-bike system is turned off!***



Note that with older CRUSSIS e-bike models, you may encounter a charger with this older type of connector. This connector is no longer supported in newer models.

FACTORS AFFECTING E-BIKE RANGE

The range of an e-bike cannot be precisely determined, as it is influenced by numerous factors.

- 1. Route Profile and Surface:** Riding on flat terrain provides greater range compared to riding on long steep climbs and rough surfaces.
- 2. Rider and Cargo Weight:** Heavier rider and cargo weight lead to higher energy consumption.
- 3. Tire Pressure and Tread:** Proper tire inflation is crucial. Riding on under-inflated tires reduces e-bike range.
- 4. Battery Condition:** A fully charged, new battery offers greater range than one that has been charged and discharged multiple times. Battery capacity also affects range. Higher capacity = longer range. Maximum battery capacity is achieved after 5-10 charge cycles.
- 5. Assistance Level:** Higher motor assistance results in shorter range.
- 6. Riding Style and Smoothness:** Pedaling more actively reduces motor energy consumption. Smooth riding also matters; frequent starts decrease range.
- 7. Weather Conditions:** Ideal conditions are around 20°C with no wind. Lower temperatures and strong headwinds decrease range.

E-BIKE CONTROL (COLOR LCD DISPLAY)

The Panasonic control panel features a high-contrast color LCD display that provides all essential information, even under direct sunlight. The handlebar-mounted control offers responsive feedback and user-friendly operation. The user interface is clear and intuitive. Both the control panel and display are protected against water and dirt ingress, meeting IP65 protection class. The system must be turned on while the bike is stationary (not in motion). If the system is turned on while riding, there is a possibility that assistance may not function properly.



If the system is turned on while riding, an error E-001 may appear. This error will remain displayed on the screen, and the display cannot be operated at this time. You must turn off the display by briefly pressing the power button and then turn the system on again while the bike is stationary (if the e-bike is not in motion).

Read this first!

For Your Safety

To reduce the risk of injury, loss of life, electric shock, fire, malfunction, and damage to equipment or property, always observe the following safety precautions.

Explanation of symbols

The following symbols are used to classify and describe the level of hazard, injury, and property damage caused when the warning is disregarded and improper use is performed.



DANGER

Denotes a potential hazard that will result in serious injury or death.



WARNING

Denotes a potential hazard that could result in serious injury or death.



CAUTION

Označuje nebezpečí, které by mohlo vést k lehkému zranění nebo poškození zařízení nebo jiného zařízení.

The following symbols are used to classify and describe the type of instructions to be observed.



This symbol is used to alert users to a specific operating procedure that must not be performed.



This symbol is used to alert users to a specific operating procedure that must be followed in order to operate the unit safely.



WARNING

Console (Display)



Do not modify or disassemble the console.

Do not use or leave the console lying around in high temperatures.

- This may cause damage or heat, which may lead to fire.

Do not use the bicycle mark button (Walk assistance) when the wheels of the electric bicycles are not in contact with the ground.

- It may cause injury.

If a problem occurs when charging a USB device, disconnect the USB cable.

(Smoke is emitted, a strange smell or noise is present, the console or the USB cable is damaged, or water gets inside the device.)

- Continued use in such circumstances can cause fire and electric shocks.

(Switching the device on/off, assist mode switching, light operation, etc.)

- If assistance deactivates when on a slope, when setting off, or due to erroneous operation, you may suffer an injury due to losing your balance or falling over due to riding one-handed.