AVENTON

User Manual

RAMBLAS Electric Bicycle

RAMBLAS

SCAN FOR ASSEMBLY VIDEO

English • Original instructions • 01

Thank you for purchasing the Aventon RAMBLAS Ebike.

We take pride in bringing you a quality product that will offer years of enjoyment. Please read and fully understand this manual before assembling and riding your bike. If you have any questions after reading this manual, please refer to the Aventon Help Center, contact us via our contact us page, or give us a phone call.

We are here to help!
Aventon Help Center: https://rideaventon.zendesk.com/hc/en-us
Support link: https://rideaventon.zendesk.com/hc/en-us/requests/new
Phone: 1-866-300-3311

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USING THIS MANNUAL

This manual contains product details, equipment information, and operational, maintenance, and other helpful tips for owners. Read it carefully and familiarize yourself with the ebike before using it to ensure safe use and prevent accidents. This manual includes numerous warnings and cautions related to safe operation and the consequences of improper setup, operation, and maintenance.
All information in this manual should be reviewed carefully, and if you have any questions, please contact Aventon immediately.

The notes, warnings, and cautions within the manual are marked by the triangular Caution Symbol on the left side and should be treated with special care. Users should also pay particular attention to information in this manual beginning with "NOTICE".

Keep this manual, along with any other documents that came with your bike, for future reference. However, please note that all content in this manual is subject to change or withdrawal without notice. Visit Aventon's help center at https://rideaventon.zendesk.com/hc/en-us to view and download the latest version. Aventon strives to ensure the accuracy of its documentation and assumes no responsibility or liability for any errors or inaccuracies that may appear within.

Because it is impossible to anticipate every situation or condition that may occur while riding, this manual makes no representations about the safe use of bikes under all conditions. There are inherent risks associated with using any bike that cannot be predicted or avoided, and these risks are the sole responsibility of the rider.

GENERAL SAFETY

INSTRUCTIONS PERTAINING TO RISK OF FIRE or ELECTRIC SHOCK

IMPORTANT SAFETY INSTRUCTIONS

WARNING! When using this product, basic precautions should always be followed, including the following:

a. Read all the instructions before using the product.
b. To reduce the risk of injury, close supervision is necessary when the product is used near children.
c. Do not put fingers or hands into the product.
d. Do not use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.
e. This equipment is not intended to be used at ambient temperatures less than -4°F (-20°C) or above ambient temperatures of 113°F (45°C).
f. The battery is intended to be charged when the ambient temperature is between 32°F (0°C) and 104°F (40°C). Never charge the battery when ambient temperatures are outside this range."
g. If the battery overheats, leaks, emits a strange odor or noise, or shows changes in shape or color, immediately cut off the power and stop using the battery. Place the battery outside on a nonflammable surface, such as concrete or brick, in a well-ventilated area and stay away from it. Contact Aventon's after-sales department or designated authorized service outlets for maintenance. If there is a fire or significant hazard, contact the fire department immediately for professional assistance.

WARNING! It is your responsibility to comply with all traffic related laws and to use proper equipment. This includes appropriate cycling attire and bike maintenance.

Observe all local bicycle traffic laws and regulations.
Observe regulations about bicycle lighting, licensing riding on pavements/sidewalks, bike paths and trail use, helmet laws, child laws relating to cycling, and special bicycle traffic laws, it is your responsibility to know and obey your local laws.

- When riding a bike, always wear a properly fitted helmet that covers the forehead. Many locations require specific safety devices. It is your responsibility to familiarize yourself with the local laws, rules, and regulations where you ride and to comply with all applicable laws, including equipping yourself and your bike as the law requires.
- Unless otherwise stated, a rider's weight and luggage should not exceed what is listed in the specifications section.
- Before you ride your bike, always check to make sure everything is working properly, and correctly aligned, and torqued to spec.
- Be familiar with the controls of your bicycle, such as control pad, brakes, pedals and shifting etc..

- Keep all body parts or any obtrusive objects away from the sharp chainrings when pedaling. Failure to wear proper attire could lead to injuries.
- While riding, remember you are sharing the road or path with others. i.e. motorists, pedestrians and other cyclists.
- Always be a defensive rider. Always assume that others do not see you and expect the unexpected.
- Always be aware of your surrounds. Be alert and responsive to:
  1. Motor vehicles of all types and in all directions.
  2. Unexpected movement of obstacles.
  3. Nearby pedestrians.
  4. Children or animals in the area.
  5. Imperfections of bike paths or paved roads including potholes, uneven surfaces, loose gravel construction and debris.
  6. Warning, hazard and yield signs.
- Ride in designated bike lanes when available and always ride in the direction of traffic.
- Acknowledge and stop at ALL stop signs and traffic lights.
- When coming to a complete stop, look both ways at street intersections before continuing onward.
- Use official hand signals for turning and stopping.
- Do not ride with headphones.
- Never hold onto another vehicle.
- Do not weave through traffc or make unexpected moves or turns.
- Rules that govern the right-of-way for motorists apply to cyclists. A bicyclist should always be prepared to yield.
- Do not ride while under the influence of alcohol or drugs.
- Avoid riding in bad weather when visibility is obscured, for examples at dawn, dusk, or in the dark such conditions increase the risk of accidents.

Wet Weather

It is recommended to not ride in wet weather if avoidable. Ride in wet weather only if necessary. Electric bike is not meant for use in heavy rain, or streams. Never immerse or submerge this product in water or liquid as the electrical system may be damaged.

- In wet weather you need to take extra care when operating this bike.
- Decrease riding speed to help you control the bike in slippery conditions.
- Brake earlier since it will take longer to slow down and come to a stop than when operated in dry conditions.
- Take care to be more visible to others on the road. Wear reflective clothing and use approved safety lights.
- Road hazards are more difficult to see when wet; proceed with caution.

NIGHT RIDING

Cyclists should exercise extra caution when riding at night. Bicyclists are very difficult for motorists and pedestrians to see in the dark and in many cases, night riding can be more dangerous than day riding.

Individuals of an appropriate age who are aware of the increased risks should take extra care when riding at dawn, dusk or at night. Please note that it is important to choose suitable apparel and special ized equipment when riding in unfavorable conditions to reduce the risk of injury.

Warning! Reflectors should not worn as a substitute for required lighting. Cyclists are nearly invisible to other cyclists and motorists if the necessary lights and reflective gear are not used. If you ride at night, take all required precautions to make yourself visible through the use of lights and reflectors. Lack of adequate lighting measures may result in serious injury or death. As a moving cyclist, reflectors are designed to reflect off of car and street lights to help you become more visible and recognizable when riding.

Caution! Reflectors and their mounting brackets should be checked regularly to ensure they are clean, straight and securely mounted. Check to be sure you comply with all local laws about night riding. The followings are recommended.

- It is important you take steps to enhance your visibility by wearing light-colored, reflective clothing and accessories. There are plenty of proper reflective gear options that can be worn:
  Vests, armbands, leg bands, stripes on your helmet, and blinker attached to your body and or bicycle.

- Make sure your clothing or miscellaneous items do not obstruct the visibility of your reflectors and lights.
- Make sure that your bicycle is equipped with reflectors for riding at dawn, dusk or at night.
- Always ride slowly when riding at night.

Pedal assist

Power Assist is initiated by the pedals and operated through the On Board Display. Simply pedalling the bike will create an additional level of power to increase your riding speed or help you tackle hills. Switch between the different levels, in combination with the gears, to maintain a steady pace over varying terrain.

Assembly and Fit

Correct assembly and fit ae essential elements to ensure your bicycling safety, performance, and comfort. Even if you have the experience, skill, and tools to complete these essential steps before your first ride, Aventon recommends having a certified, reputable bike mechanic to check your work.

NOTICE: If you do not have the experience, skill, and tools to complete assembly and fit, Aventon highly recommends having a certified, reputable bike mechanic complete these procedures as well as any future adjustments or tuning.

NOTICE: A critical aspect of assembling your bike is securing the front wheel and checking the tightness of the rear wheel axle nuts. Aventon bikes use bolted on, through axle or quick release front wheel mounting mechanism and the rear wheel is bolted on. These mechanisms may become loose or unsecured during shipment or over time. The torque and security of all wheel mounting hardware should be inspected upon arrival and on a regular basis. Both wheels need to be properly secured before operating your bike.

Mandatory Equipment and Use Locations

Before riding, ensure you have all required and recommended safety equipment and are following all laws pertaining to use an electric bike in your region. For example, these laws may specify the need for mandatory equipment, use of hand signals, and where you can ride.

Changing Components or Attaching Accessories

The use of non-original components or spare parts can jeopardize the safety of your ebike, void your warranty and, in some cases, cause your ebike to not conform with laws pertaining to your bike.



The replacement of original components or installation of third-party accessories or accessories not from Aventon explicitly recommended for your bike model is at your own risk. Using aftermarket accessories or components that have not been tested by Aventon for safety and compatibility may void your warranty, create an unsafe riding condition, damage property or your bike by Aventon, or result in serious injury or death.



Pre-Ride Safety Checklist

Always complete the "Pre-Ride Safety Checklist" included in this manual before each ride, and make sure to check all hardware for correct torque during assembly. Failure to complete the "Pre-Ride Safety Checklist" and follow the recommended service and maintenance schedules for your ebike can cause component or performance failure, loss of control, serious injury, or death.

Electrical System

The electrical system powers several components on your ebike that control different operating conditions and user preferences. It is critical that you familiarize yourself with all aspects of your ebike s electrical system and check to see if it is working correctly before every ride. Some models front and rear brake levers contain safety power cutoff switches,which disable the Mid mounted motor s assistance when applied, and both levers should be checked for correct operation.

Brakes

Ensure that the brakes and their system components are free from damage, properly secured and working correctly. When fully squeezed, both front and rear brake levers should not be touching the handlebar. Take your bike to a certified, reputable bike mechanic to have the brakes repaired if you find a problem.

Tires and Wheels

Your wheels should always spin straight and must be repaired or replaced if they wobble side to side or up and down when spinning. If your wheels become untrue or spokes loosen, which can happen with normal use, we recommend that a certified, reputable bike mechanic performs all wheel tuning and truing operations on your Aventon bike. Do not attempt to true wheels or tighten spokes unless you have adequate knowledge, tools, and experience. Ensure the tires and inner tubes are in good working conditionwithout any visual damage and have the correct amount of air pressure. Always replace tires and inner tubes with punctures, cuts, or damage before you ride. Tires without the correct amount of air pressure canreduce performance, increase tire and component wear, and make riding your bike unsafe.

Accessories, Straps, and Hardware

Ensure all hardware is secured and all approved accessories are properly attached per the specific component manufacturer s instructions. It is good practice to look over all hardware, straps, and accesso ries before each ride and if you do discover something wrong or something that you are not sure about, have it checked by a certified, reputable bike mechanic.

Suspension, Handlebar, Grips, and Seat Adjustments

Before riding, ensure all these crucial components are well-prepared: If your bicycle is equipped with suspension, make sure to properly adjust it before riding. Align and secure the handlebar and handlebar stem according to your preference for enhanced control and comfort. Ensure the handlebar grips are securely in place, preventing any unintended movement during your ride. Properly align the seat and seatpost, securing the quick-release mechanism for a comfortable seating position and safety. By addressing these aspects, you'll be on your way to a safer, more comfortable biking experience.

Battery Charged, Secured, and Unplugged

Before your ride, take these crucial steps: Verify that the battery is sufficiently charged and in proper working order, ensuring that your bike performs optimally. Double-check that the battery charger is unplugged from both the outlet and the battery, and store it in a secure location to prevent potential hazards. The battery MUST be securely locked onto the frame battery mount for safe and efficient operation. Never attempt to operate the electrical system without the battery securely in place. When installing the battery into the frame, ensure a proper fit by pushing it firmly until you hear a distinct "CLICK" sound, signaling that it's securely attached and ready for your ride.

CHARGER SAFETY INFORMATION

- The charger should only be used indoors in a cool, dry, ventilated area, on a flat, stable, hard surface.
- Avoid charger contact with liquids, dirt, debris, or metal objects. DO NOT cover the charger while in use.
- Store and use the charger in a safe place away from children.
- Fully charging the battery before each use can help extend the life of the battery and reduce the chance of over-discharging.
- DO NOT charge the battery with any chargers other than the one originally supplied by Aventon Bikes or a charger designed for use with your specific bike purchased directly from Aventon Bikes.
- The charger works on 100-240V 50-60 Hz standard home AC power outlets and automatically detects and accounts for incoming voltage. DO NOT open the charger or modify voltage input.
- DO NOT yank or pull on the cables of the charger. When unplugging carefully remove both the AC and DC cables by pulling on the plastic plugs directly, and not on the cables.
- Always position the charger on a concrete or brick surface, as it may generate heat during peak charging cycles. If, at any point, the charger becomes excessively hot to the touch, emits an unusual odor, or displays any other signs of overheating, immediately cease using the charger and promptly contact Aventon Support for assistance and guidance.
- DO NOT leave your bike charging unattended.
- If the bike is stored, check the battery every month, and if necessary, use the Aventon Bike charger to charge the battery to 75%.
- If the battery overheats, leaks, emits a strange odor or noise, or shows changes in shape or color, immediately cut off the power and stop using the battery. Place the battery outside on a nonflammable surface, such as concrete or brick, in a well-ventilated area and stay away from it. Contact Aventon’s after-sales department or designated authorized service outlets for maintenance. If there is a fire or significant hazard, contact the fire department immediately for professional assistance.

Charge the battery only with the charger originally supplied with the bike from Aventon BIkes, or a charger purchased directly from Aventon Bikes, designed for use with your specific bike serial number, as approved by Aventon Bikes. Never use an aftermarket charger, which can result in damage, serious injury, or death.

Please take special care in charging your bike from Aventon Bikes in accordance with the procedures and safety information detailed in this manual. Failure to follow proper charging procedures can result in damage to your bike, the charger, or personal property, and/or cause serious injury or death.

General Operating Rules

Notice: Pay special attention to all the general operating rules below before operating your bike from Aventon.

- When riding, obey the same road laws as all other road vehicles as applicable by law in your area.
- For additional information regarding traffic/cehicles laws, contact the road traffic authority in your area.
- Ride predictably, in a straight line, and with the flow of traffic. Never ride against traffic.
- Use correct hand signals to indicate turning.
- Ride defensively; to other road users you may be hard to see.
- Concentrate on the path ahead. Avoid potholes, gravel, wet or oily roads, wet leaves, curbs, train tracks, speed bumbs, drain getes, thorns, broken glass, and other obstacles, hazards, and puncture flat risks.
- Cross train tracks at a 90-degree angle or walk your bike across.
- Expect the unexpected such as opening car doors or cars backing out of cyclists.
- Be careful at intersections and when preparing to pass other vehicles or cyclists.
- Familiarize yourself with all the features and operations of the bike by Aventon Bikes. practice and become proficient at shifting gears, applying the brakes, using the pedal assist system, and using the throttle in a controlled setting before riding in riskier conditions.
- Wear proper riding clothes including closed-toe shoes. If you are wearing loose pants, secure the bottom using leg clips or elastic bands to prevent them from being caught in the chain or gears. Do not use items that may restrict your hearing.
- Check your local rules and regulations before carrying cargo.
- When braking, apply the rear brake first, then the front brake. If brakes are not correctly applied, they may lock up and lead to you losing control and/or falling.
- Maintain a comfortable stopping distance from all other objects, riders, and vehicles. Safe braking distances are based on factors such as road surface and light conditions among other variables.

Safety Notes

The following safety notes provide additional information on the safe operation of your bike from Aventon and should be closely reviewed. Failure to review these notes can lead to serious injury or death.

- All users must read and understand this manual before riding their bike from Aventon Bikes. Additional manuals for components used on the bike may also be provided and should be read before installing or using those components.
- Ensure that you comprehend all instructions and safety notes/warnings.
- Ensure the bike fits you properly before your first use. You may lose control or fall if your bike is too big or too small.
- Always wear an approved bicycle helmet whenever riding a bike and ensure that all helmet manufacturer instructions are used for fit and care of your helmet. Failure to wear a helmet when riding may result in serious injury or death.
- Ensure correct setup, tightening, and torquing to recommended torque values is performed on your bike before first using it and check the setup, tightening, and condition of components and hardware regularly.
- It is your responsibility to familiarize yourself with the laws and requirements of operating this product in the area(s) where you ride.
- Ensure the handlebar grips are undamaged and properly installed. Loose or damaged grips can cause you to lose control and fall.
- Do not use this product with standard bike trailers, stands, vehicle racks, or accessories that Avneton has not tested for safety and compatibility and has verified as safe and compatible with the bike.
- Off-road riding requires close attention, specific skills, and presents variable conditions and hazards Wear appropriate safety gear and do not ride alone in remote areas. Check local rules and regulations about whether off-road ebike riding is allowed.

- DO NOT ENGAGE IN EXTREME RIDING. This includes but is not limited to jumps, stunts, or any riding that exceeds your capabilities. Although many articles/advertisements/catalogs depict extreme riding, this is not recommended nor permitted, and you can be seriously injured or killed if you perform extreme riding.
- Bikes and bike parts have strength and integrity limitations,and extreme riding, including but not limited to jumps, stunts, etc., should not be performed as it can damage bike components and/or cause or lead to dangerous riding situations in which you may be seriously injured or killed.
- Failure to perform and confirm proper installation, compatibility, proper operation, or maintenance of any component or accessory can result in serious injury or death.
- After any incident, you must consider your bike unsafe to ride until you consult with a certified, reputable bike mechanic for a comprehensive inspection of all components, functions, and operations of the bike.
- Failure to properly charge, store, or use your battery will void the warranty and may cause a hazardous situation.
- You should check the operation of the brake motor cutoff switches before each ride. The brake system is equipped with an inhibitor that cuts off power to the electric motor whenever the brakes are squeezed. Check proper operation of brake motor cutoff switches before riding.
- Extreme care should be taken when using the pedal assistance sensor and throttle on this product. Ensure you understand and are prepared for the pedal assistance to engage as soon as pedaling is underway.
- Users must understand the operation of the thumb switch throttle and pedal assistance sensors before using the bike and must take care to travel at speeds appropriate for the usage area, riding conditions, and user experience level. Always use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power.
- Any aftermarket changes to your bike from Aventon Bikes not expressly approved by Aventon Bikes could void the warranty and create an unsafe riding experience.
- Because electric bikes are heavier and faster than normal bikes, they require extra caution and care while riding.
- Take extra care while riding in wet conditions including decreasing speed and increasing braking distances. Feet or hands can slip in wet conditions and lead to serious injury or death.
- Do not remove any reflectors.

General Warnings

Like any sport, bicycling involves risk of damage, injury, and death. By choosing to ride a bike, you assume the responsibility for that risk, so you need to know, and practice the rules of safe and responsible riding and the proper use and maintenance of this bike. Proper use and maintenance of your bike reduces risk of damage, injury, and death.

Biking and controlled substances do not mix. Never operate a bike while under the influence of alcohol, drugs, or any substance or condition that could impair motor functions, judgement, or the ability to safely operate a bike or another vehicle.

The RAMBLAS is designed for use by persons 18 years old and older. Riders must have the physical condition, reaction time, and metal capability to ride safely and manage traffic, road conditons, and sudden situations, as well as respect the laws governing electric bike use where they ride, regardless of age. If you have an impairment or disability such as a visual impairment, hearing impairment, physical impairment, cognitive/language impairment, a seizure disorder, or any other physical condition that could impact your ability to safely operate a vehicle, consult your physician before riding any bike.

A Note for Parents and Guardians

As a parent or guardian, you are responsible for the activities and safety of your child. RAMBLAS is not designed for use by children under the age of 18. If you are carrying a passenger in a child safety seat, they should also be wearing a properly fitted and approved helmet.

Caution! Aventon cannot be held responsible for accidents, injuries, or product malfunctions resulting from any unauthorized changes, modifications, or tampering with any part of the original specifications.

SAVE THESE INSTRUCTIONS

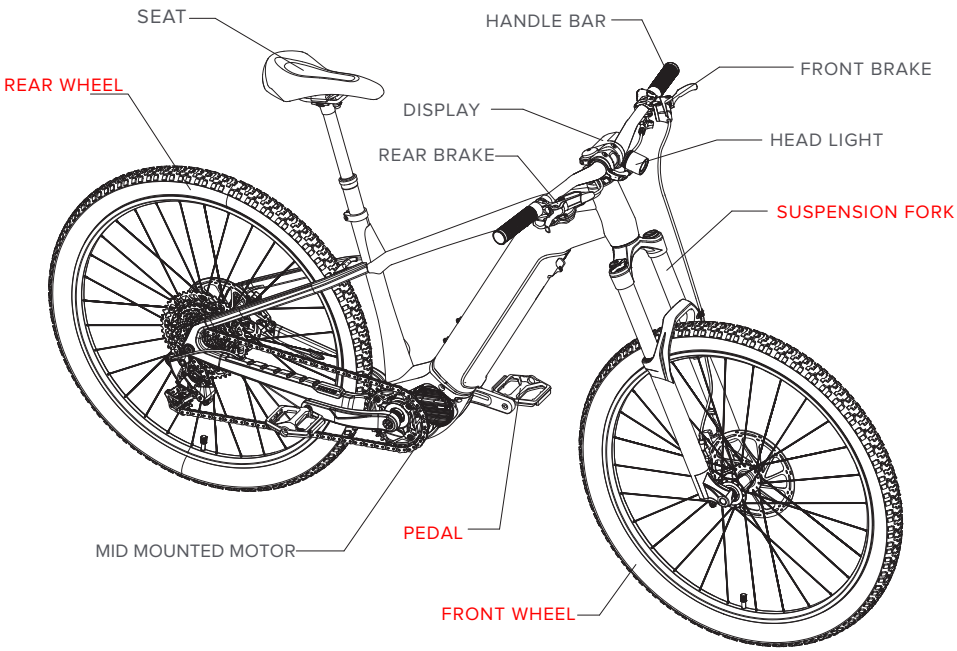
SPECIFICATIONS

Model Name	Aventon RAMBLAS
Max. Load Capacity	300lbs. / 136 kg
Max. Speed	20mph / 32km/h
Motor	36V 250W Mid mounted motor
Motor Water Resistance	IP67
Battery	36V 19.2Ah Li-ion
TURBO mode Range Per Charge (Average)*	Up to 45 Miles on PAS
Wheel Size	27.5/29*2.4
Tire Pressure	Inflate to 20-40 PSI based on rider's weight and riding conditions
Charger	Max. DC 42V 4.0A
Charging Time	Approx. 4-5 Hours
E-bike Water Resistance	IPX6
Weight	56.8 LBS / 25.8kg

* Range Per Chager is measured under the conditions that power is sufficient, with a 75kg load, at 86°F(30°C), 70% humidity, on a level road, in Pedal Assist riding mode. Actual results may vary based on diffierences in temperature, load, wind speed, road conditions and other factors.

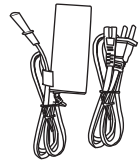
EBIKE ASSEMBLY

Assembled overview

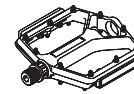


WHAT' S IN THE BOX

1* Charger
1* Kickstand
2* Pedals
2* Front/rear reflector
2* Reflector mount
1* Owner's manual
1* Grease
1* L-shaped ring wrench
1* Combination Wrench
1* Headlamps
1* Front lamp mount
2* Wheel reflector
3* Two-in-one thread buckle
2* Three-in-one thread buckle













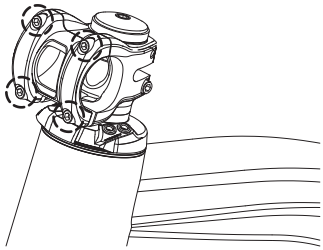


ASSEMBLY

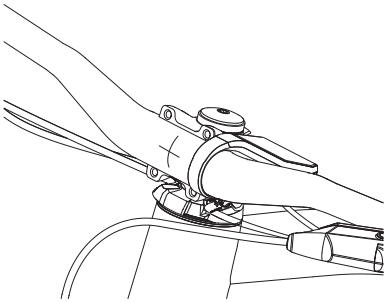
NOTICE: The following steps are only a general guide to assist in the assembly of your ebike and are not a complete or comprehensive manual of all aspects of assembly, maintenance, and repair. Consult a certified, reputable bike mechanic to assist with assembly, repair, and maintenance of your ebike.

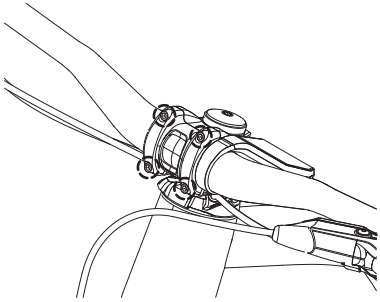
Step 1. Unpack the bike.
Open the bike box. With the help of another person capable of safely lifting a heavy object, remove the ebike from the bike box. Carefuly remove the packaging material protecting the bike frame and components as well as remove the small boxes attached to the fork, These are your charger and accessories. Please recycle packaging materials especially cardboard and foam whenever possible.

Step 2. Use a 4 mm Allen wrench to loosen the four bolts in front of the stem faceplate.

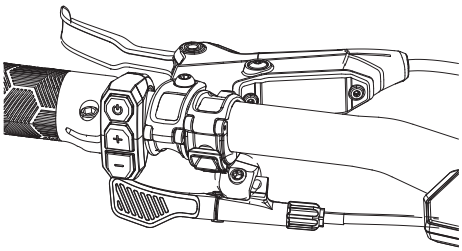


Step 3. Place the handlebar in front of the Stem with the display facing upwards. Install the Stem face plate in the corresponding position. keep this snug but not tight for now.(we will come back to this on step 10) .

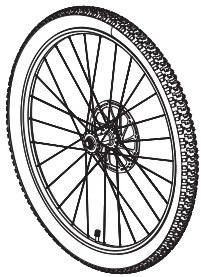


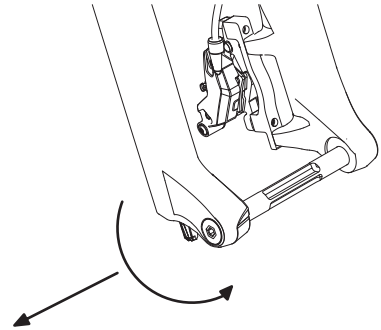


Step 4. Dropper post lever installation.
Move the dropper post lever to the corresponding position on the left side of the handlebar, Point the screw to the left hole position adjust to the desired position, and then use L-shaped ring wrench to tignten the bolt.

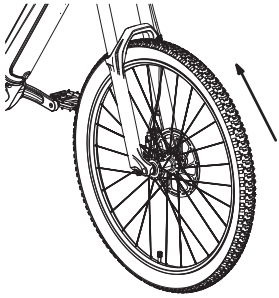


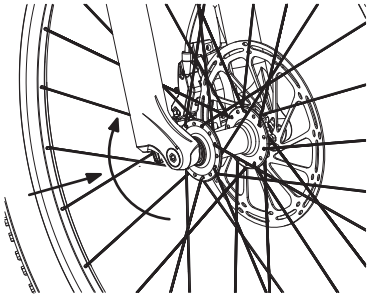
Step 5. Front wheel installation.
Take out the front wheel from the paper cover, use a 6mm Allen wrench to unscrew the axle counterclockwise and then extract the axle. At the same time, remove the plastic protective sheet between the adjacent plate of the brake seat.
Note: Do not squeeze brake lever before installing the front wheel.



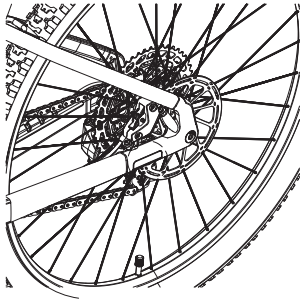


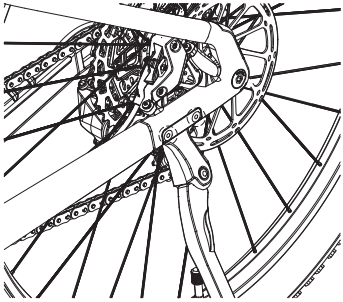
Step 6. Place the front wheel into the front suspension fork and align it with the axle hole. Buthe thread at the end of the axle,insert it into the axle and tighten it clockwise to the recommended torque value of 9-13.5 N.m, ensuring that the front wheel does not shake.

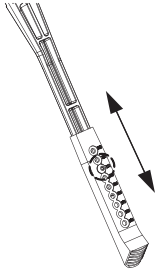




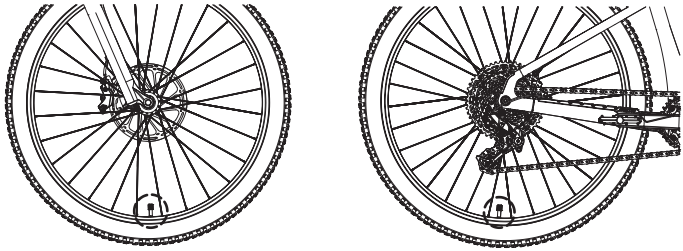
Step 7. Kickstand installation.
Firstly, remove the Kickstand support and screws from the small package and adjust them to fit the height of the frame. Remove the cover plate at the position of the rear lower fork foot support, place the foot support behind the rear lower fork, Align the upper hole of the side kickstand with the lower left fork, Then insert the screw and tighten it with a 4mm inner hexagon wrench to ensure that the foot support does not shake or loosen.
Note: The factory length of the Kickstand is 310 mm for the S-size. for M/L/XL-size should be 320 mm, you can adjust the screw on the inner side of the Kickstand to get 320mm Kickstand length for the M/L/XL frame.



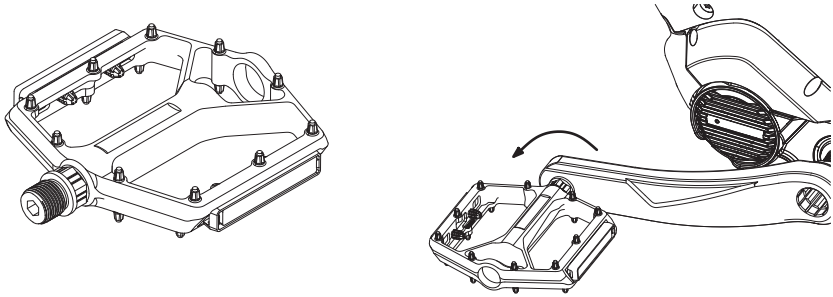




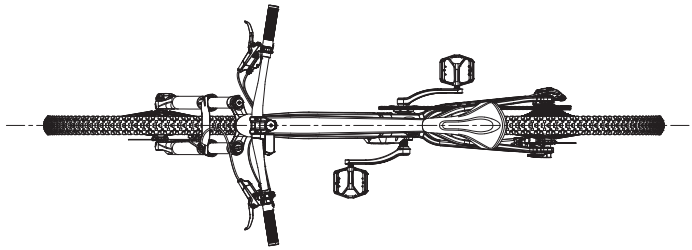
Step 8. Inflatetires.
Examine both wheels to ensure uniform spoke tension, verify that the tire is evenly seated on the rim, and confirm that the wheel spins true. Proceed to use a pump with a Presta valve head to inflate each tire to a pressure range of 20 to 40 psi (Recommended safe air pressure value for mountain bikes) based on the rider's weight and riding conditions. Do not underinflate and overinflate.



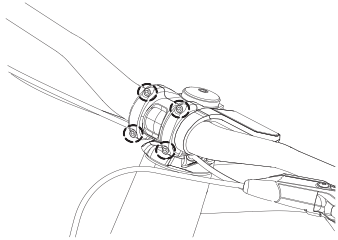
Step 9. Pedal installation.
The right pedal (labeled "R") features a positive thread. Apply grease to the threads. Carefully thread the right pedal onto the crank on the right side of the bicycle by hand, and then Turn ighten clockwise with a 15mm open wrench. The left pedal (labeled "L") has a counterclockwise thread. Apply grease to the threads. Thread the left pedal onto the left crank by hand, and then tighten it using your wrench by rotating it counterclockwise. Avoid alternating left and right foot movements during installation to prevent damage to the threads.
Note: Torque each pedal to 30-35N. m.



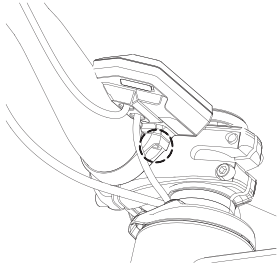
Step 10. Adjusting the handlebars.
With the stem pinch bolts and stem faceplate bolts still somewhat loose, position yourself in front of the bicycle. Secure the front wheel between both legs and ensure that the stem is straight and aligned with the front wheel. Additionally, confirm that the handlebar rise is angled slightly backward from a completely upright position. Align the handlebar cross line with the vertical cover marking line.



Step 11. After adjusting the handlebar, use your Allen wrenches to tighten the stem face plate bolts and stem pinch bolts.



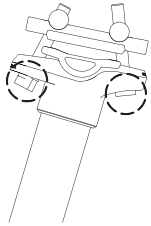
Step 12. If you would like to adjust the angle of the display, please loosen the screws under the display, adjust it to your desired position, and then retighten the screws.



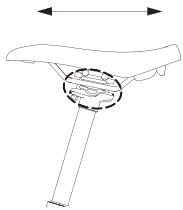
Step 13. Seat installation.

A. Installing the saddle. For the size XL Ramblas, please be aware that the seat is removed during packaging to ensure secure and safe transit. Follow these installation instructions to properly install the seat. If you do not have a size XL, please skip to Step 14.

● Loosen the two bolts at the top of the dropper seat post, Use a 5mm Allen wrench to pre-tighten the bolt and clamp plate above the seat tube;allowing enough space to slide the two rails between the lower and upper seat clamp.



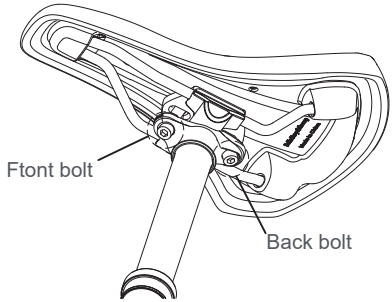
B. Slide the two rails of the seat between the upper and lower seat clamp.



C. Tighten, but do not fully tighten, the two bolts, securing the upper and lower seat clamp onto the seat rails.

● Adjust the saddle to your preferred angle by loosening the back bolt and tightening the front bolt to bring the front of the saddle down or by tightening the back bolt and loosening the front bolt to bring the front of the saddle up. Ensure that the range of adjustment printed on the seat rails is close to centered between the first and second bolts for/aft.

Note: Recommended torque value for seat adjustment bolt tightening (10-12Nm).

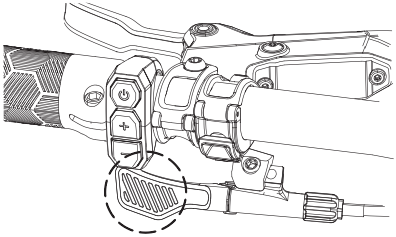


D. Confirm that the seat is securely attached by giving it a tug. It should not move or rotate when properly installed.

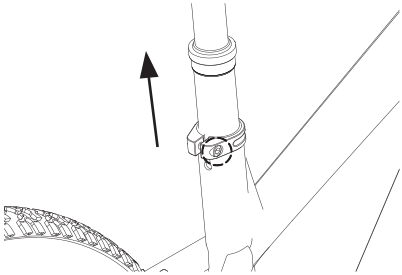
Step 14. Adjusting Dropper Post Height

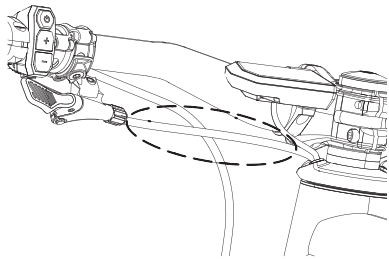
To adjust the dropper post height, follow these guidelines:

A. Press the dropper post lever to fully extend the post for optimal pedaling efficiency. Maintain this position during the adjustment.



B. Use a 5mm wrench to loosen the seatpost clamp.
Adjust the seatpost height in the frame while moving the dropper post housing near the handlebars for smooth operation. Be careful not to exceed the minimum insertion line on the post.





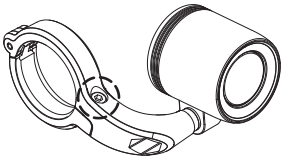
C. Once the desired height is achieved, retighten the 5mm bolt on the seat clamp to 5-7 Nm.
Note: If the dropper post is not functioning properly, it may be pushed too far into the frame. In such cases, try pushing more of the dropper post cable housing into the frame near the headset to allow more slack within the frame.

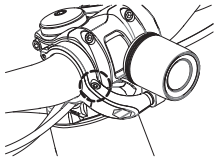
Using the Dropper Post:
● For specific sections of the trail, such as going downhill, where you may want more room in the cockpit, press the dropper post lever while seated to lower the seat for enhanced maneuverability.
● To raise the seatpost back up for maximum pedaling efficiency, press the dropper seatpost lever while standing.

Step 15. Headlight installation.

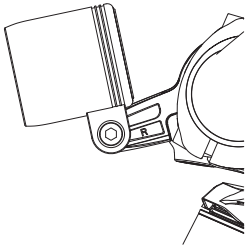
A.Remove the headlights and lamp holders from the small bag box.

B.Unscrew the 3mm hexagon wrench, install the lamp holder on the handlebar and tighten the bolts clockwise. Connect the headlight line with the For headlight sticker line tube.

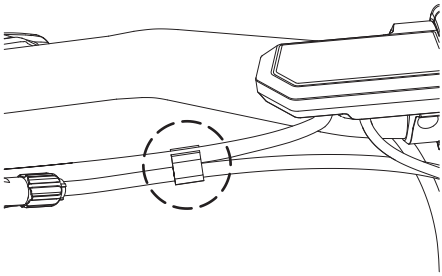


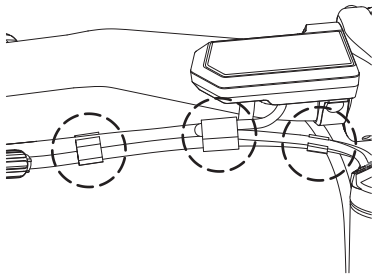


C. Connect the headlight line with the For headlight sticker line tube. Adjust the angle of the headlights so that the light source is directed 5-10 meters in front of the vehicle.

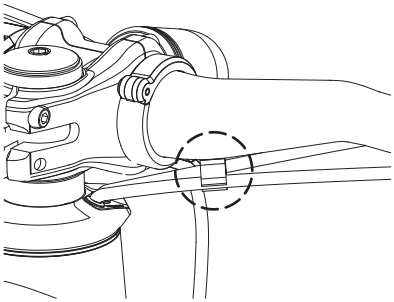


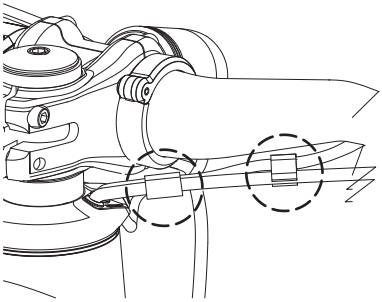
Step 16. Wire buckle installation.
A. Fix the left wiring harness, seat tube adjustment wire, and switch connection wire with a 2.5mm+4mm open two in one wire buckle. Fix the seat tube adjustment line and instrument line with a 2.5mm+4mm open two in one wire buckle under the instrument; Fix the right wiring harness, rear disc brake line, and transmission line with a 4mm+5mm split two in one wire buckle
Note: When wiring, do not forcefully pull or tug on the wiring harness.



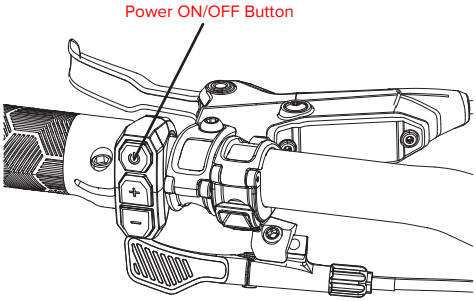


B. Fix the seat tube adjustment line, instrument connection line, and switch connection line to the bottom of the instrument using a three in one buckle; Fix the rear disc brake line, transmission line, and front light line under the handle with a three in one buckle.
Note: When wiring, do not forcefully pull or tug on the wiring harness.





Step 17. Connect the Thumb Controls Wire.
Plug in the thumb controls wire to the red connection coming out of the top of the headset, ensuring it's properly aligned and fully plugged in. Then, press and hold the power button for about 3 seconds to turn on the display screen. For more detailed information about the display and its functions, refer to the display screen operation area of the manual below.



BATTERY CHARGING

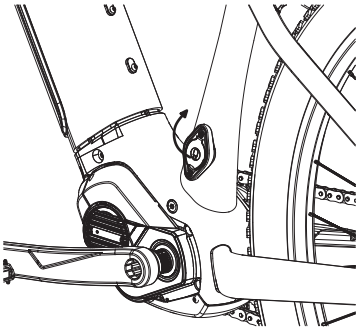
Charging Procedure

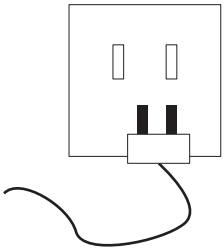
Follow these steps for charging your ebike battery from Aventon Bikes:

1. Ensure the battery is turned off.
2. Remove the rubber cover from the charging port.
3. Place the charger on a flat concrete or brick surface . Attach the DC output plug (round barrel connector) from the charger to the side charging port of the battery .
4. Plug the charger into a power outlet: Attach the charger's input plug (100-240-volt plug) to the power outlet.The charging process will begin, indicated by the charger's LED status light turning red.
5. When the battery is fully charged (indicated by a green light on the charger), remove the charger from the outlet first, and then disconnect it from the charging port on the battery itself.
6. Battery indicator light colors: Blue (66%-100%), Green (33%-66%), Red (0%-33%).

Always charge your battery in temperature between 32 ˚F - 104˚F (0˚C-40˚C) and ensure the battery and charger are not damaged before initiating charge.

If the battery overheats, leaks, emits a strange odor or noise, or shows changes in shape or color, immediately cut off the power and stop using the battery. Place the battery outside on a nonflammable surface, such as concrete or brick, in a well-ventilated area and stay away from it. Contact Aventon's after-sales department or designated authorized service outlets for maintenance. If there is a fire or significant hazard, contact the fire department immediately for professional assistance.





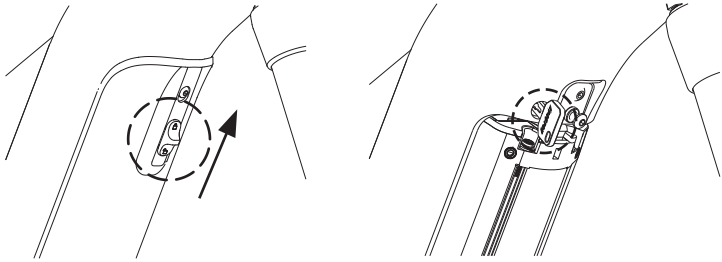
BATTERY CHARGING INFORMATION AND BEST PRACTICES

- Check the charger, charger cables, and battery for damage before beginning each charge.
- Be sure to charge in an area where it is clear and safe from any potential damage or tripping situations that can occur while it is charging. Always charge your battery in temperature between 32 ˚F - 104˚F (0˚C-40˚C).
- The battery can be charged on or off the bike. To remove the battery, turn the key to the unlocked position, and take the battery out.
- The battery should be recharged after each use, so it is ready to go the full range for your next ride.
- Charging the battery normally takes 6-7 hours.
- The indicator light on the charger will show red light while the battery charges. When charging is completè, the indicator light will turn green. Ensure the light faces upward when charging.
- Remove the charger from the battery within one hour of the green light indicating a complete charge. The charger is designed to automatically stop charging when the battery is full, but unnecessary wear of the charging components could occur if the charger is left attached to the battery and a power source for longer than 12 hours.
- Never charge a battery for more than 12 hours at a time.
- DO NOT leave a charging battery unattended.

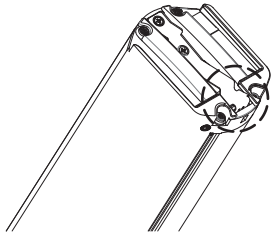
Failure to follow Battery Charging Information could result in unncessary wear to the charging components, battery, and or charger, and could lead to an underperforming or non-functional battery and replacement will not be covered under warranty.

REMOVING THE BATTERY

If you want to remove the battery from the bicycle, first pull the lock of the battery cover upwards. After removing the battery cover, insert the key in the position shown and turn it clockwise. At this point, the battery will pop up for a distance but cannot be fully removed.



After the battery pops up, press the pressing plate at the position shown in the figure to completely remove the battery.



Use caution to avoid damage to battery connector terminals, which are exposed when the battery is unlocked and removed from the frame of the bike. In the case of damage to the terminals or battery mounts, please discontinue use and contact Aventon Support immediately.

WHEN INSTALLING THE BATTERY ON THE BIKE

- **Ensure the battery is turned off.**
- DO NOT force the battery into the tray; slowly align and gently push the battery down into the tray. Then push the battery in (make sure you push hard enough) and hear the “CLICK” sound. Slightly turn the key to feel if there’s resistance from the key. If you can feel the resistance, then the battery is completely locked.
- Make sure there is no spaced between battery and tray, confirm battery.
- Ensure the battery has been properly secured to the bike before each use by carefully pulling outwards on the battery with both hands once locked.

LONG-TERM BATTERY STORAGE

If storing your bike from Aventon Bikes for longer than 2 weeks at a time, follow the instructions below to maintain the health and longevity of your battery.

- Charge(or discharge) the battery to approximately 75% charged.
- DO NOT leave the battery attached to the bike frame. Remove it from the bike during long-term storage.
- Store the battery in a dry, climate controlled, indoor location between 32 ˚F - 104˚F (0˚C-40˚C).
- Check the battery every month, and if necessary, use the Aventon Bikes charger to charge the battery to 75% charged.

Please follow the above instructions for storing your bike and battery from Aventon Bikes. Failure to follow proper battery storage procedures can result in a non-functional battery. Replacement will not be covered under warranty.

If the battery is physically damaged, non-functional, performing abnormally, or was dropped or involved in a crash, with or without obvious signs of damage, please discontinue use and charging and contact Aventon Bikes immediately.

DO NOT cover up the charger while it is charging. The charger air cools and needs to be on a hard, flat surface in an open space. Use the charger with the indicator lights facing upward. DO NOT use with the charger inverted, which can inhibit cooling and reduce charger lifespan.

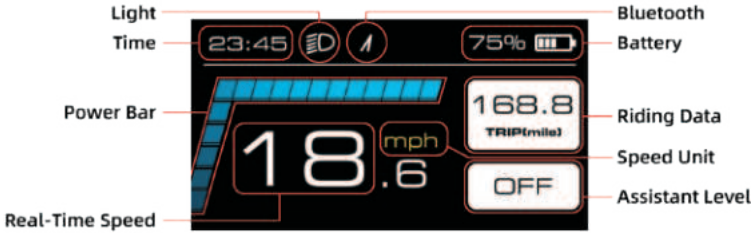
DO NOT open the battery housing, which will void the warranty and can result in damage to the battery, property or cause serious injury and/or death.

RAMBLAS QUICK START GUIDE

GETTING STARTED

Press and hold the ⏻ button on the display control pad to turn on the bike.

Home Page



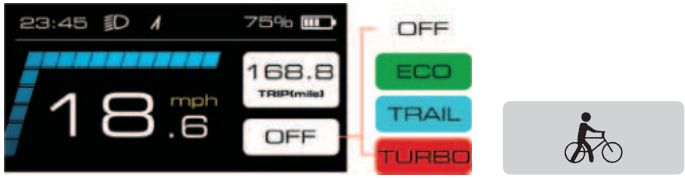
DISPLAY CONTROL PAD

Press and hold "+" three seconds to turn on the front light and rearlight, press and hold three seconds to turn off.



ASSIST LEVEL

Use '+'/'-' to switch. Press and hold '-' is WALK mode.



RIDING DATA PAGES

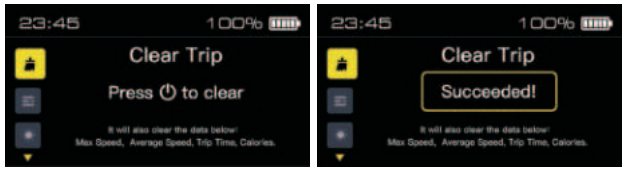
Click ⏻ to switch.



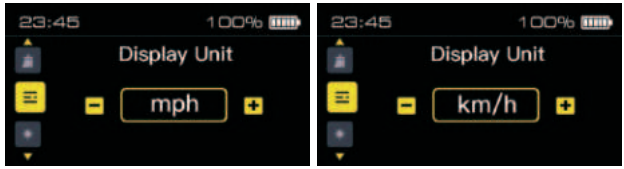
LIGHT
Press and hold '+' to switch light.

MAIN MENU
1. When the speed is 0, press and hold the '+'& '-' to enter the main menu;
2. Press the '+' / '-' to select the setting option, then press the ⏻ to confirm the selection and modify the item;.
3. Press the '+' / '-' to adjust the value, and Press and hold the '+' / '-' to adjust quickly when there are many optional values;
4. Press the ⏻ to complete the modification and return to the menu options.
5. Press and hold the '+'& '-' to exit the main menu.

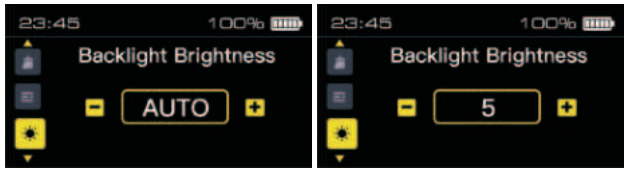
CLEAR TRIP
Trip mileage, Trip time, Maximum speed, Average Speed can be cleared.



SWITCH DISPLAY UNIT
Display unit of speed and mileage can be switched and there is metric and imperial available.



BACKLIGHT BRIGHTNESS SETTING
Screen brightness can be adjusted and adjustment range is 1-5 and Auto. The 5th level is the brightest and the auto will adjust the screen brightness automatically according to the ambient light.

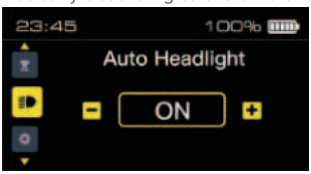


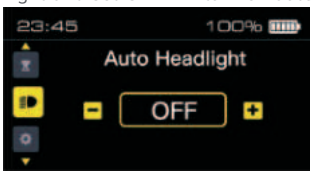
AUTO POWER OFF TIME
The automatic power off time of the display can be set, the setting range is 1-99 and OFF.



AUTO HEADLIGHT

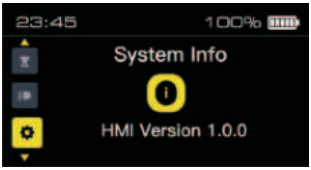
Auto headlight mode can be set. When set ON, it will turn on or turn off headlight automatically according to the ambient light and set OFF will turn off auto headlight function.





REVIEW SYSTEM INFORMATION

System information of display can be reviewed.



SET TIME

The display time can be set. Default modified option is Year after entering the setting.



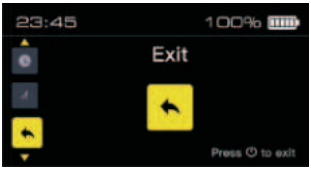
CONNECT TO AVENTEN APP

1. Press and hold '+'& '-' to enter the main menu.
2. Use '+' / '-' to navigate to the ' '.
3. Scan the QR-Code displayed on the screen with Aventon APP.



EXIT MENU

Exit the menu page and return to riding home page.



OPERATION INSTRUCTION

NOTICE: DO NOT perform any of the steps in the Operation section of this manual until you have read this entire manual, since there are important details related to safety in the following sections.

Read and understand all sections of this entire manual before operating the bike for the first time. There are important safety warnings throughout the manual that must be followed to prevent dangerous situations, accidents, damage to the bike, damage to property, injury, or death.

Users must follow the instructions and warnings contained in this manual for safety. Do not attempt to operate your bike from Aventon Bikes until you have adequate knowledge of its control and operation. Damage caused by failing to follow instructions is not covered under warranty and could result in serious injury or death. Contact Aventon Bikes if you have any questions about assembly or operation.

Users must become accustomed to the bike' s power control system before operating. The pedal assistance feature is also a powerful option and users should fully research and understand how to operate it before first time use. Not taking the time and care to familiarize yourself and practice the operation of the power system on your bike from Aventon Bikes can lead to damage, serious injury, or death.

Parking, Storage, and Transport

Please follow these basic parking, storage, and transport tips to ensure your bike is well cared for on and off the road.

- When pushing or carrying the bike manually, turn off the power to avoid accidental acceleration from the motor.
- Turn the power and any lights off to conserve battery.
- Ensure the battery is locked to the frame in the off position or use the key to remove the battery and bring it with you for security or storing in a temperature-controlled location.
- Park indoors when possible. If you must park outdoors in rain or wet conditions, leave your ebike outside for only a few hours and then park it in a dry location as soon as possible to allow all of the systems to dry out. As with a regular bike, an ebike used in wet conditions needs more frequent maintenance to prevent rust, corrosion, etc. and to ensure all systems are working safely.
- In public places, your bike from Aventon Bikes must be parked in accordance with local rules and regulations.
- Locking up your bike is recommended to ensure your bike is secure and the chance of theft is reduced. Aventon Bikes makes no claims or recommendations on the proper lock hardware or procedures to secure your bike, but we do recommend you take appropriate precautions to keep your bike safe from theft.
- Do not park, store, or transport your bike from Aventon Bikes on a vehicle rack not designed for the bike's size and weight.
- Use a vehicle rack compatible with the width of tires used on your bike. Some racks may not accommodate all tire widths.
- When carrying your bike on a vehicle rack for transport, unlock and remove the battery. This will reduce the weight of the bike, make lifting and loading easier, and allow you to protect the battery by transporting it in the cab of a vehicle.
- Avoid transporting bikes from Aventon Bikes on a vehicle rack during rain, as this may cause water damage to the electrical components. Contact Aventon Bikes Product Support if you have questions about preventative measures.

USER MAINTENANCE AND SERVICE INSTRUCTIONS

Basic Bike Care

If you do not have the experience, skill, and tools to complete maintenance and adjustment of your bike, Aventon Bikes strongly recommends having a certified, reputable bike mechanic maintain, tune, and ensure the bike is safe to ride.

Recommended Service Intervals

Regular inspection and maintenance are key to ensure Aventon Bikes function as intended, and to reduce wear and tear on their systems. Recommended service intervals are meant to be used as guidelines. Real world wear and tear, and the need for service, will vary with conditions of use. We generally recommend inspections, service, and necessary replacements be performed at the time or mileage interval that comes first in the following table.

Interval	Inspect	Service	Replace
Weekly, 160-321 km (100-200 mi)	- Check hardware for proper torque. - Check drivetrain for proper alignment and function (including chain, freewheel,chainring, and derailleur). - Check wheel trueness and for quiet wheel operation (without spoke or noise). - Check condtion of frame for any damage	- Clean frame by wiping frame down with damp cloth. - Use barrel adjuster (s) to tension derailleur/brake cables if needed.	- Replace any components confirmed by Aventon Bikes Product Support or a certified, reputable bike mechanic to be damaged beyond repair or broken.
Monthly, 402-1207 km (250-750 mi)	- Check brake pad alignment, brake cable tension. - Check bike is shifting properly, proper derailleur - Check chain stretch. - Check brake and shifter cables for corrosion or fraying. - Check spoke tension. - Check accessory mounting (rack mounting bolts, fender hardware, and alignment).	- Clean and lubricate drivetrain. - Check crankset and pedal torque. - Clean brake and shift cables. - True and tension wheels if any loose spokes are discovered. - Grease thru-axle/s if necessary.	- Replace brake and shift cables if necessary. - Replace brake pads if necessary.
Every 6 Months, 1207-2011 km (750-1250 mi)	- Inspect drivetrain (chain, chainring, freewheel, and derailleur). - Inspect all cables and housings.	- Standard tune-up by certified, reputable bike mechanic is recommended. - Grease bottom bracket.	- Replace brake pads. - Replace tires if necessary. - Replace cables and housings if necessary.

Pre-Ride Safety Checklist

Notice: Before every ride, and after every 25-45 miles (40-72 km), we advise following the pre-ride safety checklist.

Safety Check	Basic Steps
1. Brakes	Ensure front and rear brakes work properly. Check brake pads for wear and ensure they are not overworn. Ensure brake pads are correctly positioned in relation to the rims. Ensure brake cables are lubricated, correctly adjusted, and display no obvious wear. Ensure brake levers are lubricated and tightly secured to the handlebar. Test that the brake levers are firm and that the brake, motor cut off functions. and the brake lights are functioning properly.
2. Wheels and Tires	Ensure tires are inflated within the recommended limits posted on the tire sidewalls and hold air. Ensure tires have good tread, have no bulges or excessive wear, and are free from any other damage. Ensure rims run true and have no obvious wobbles, dents, or kinks. Ensure all wheel spokes are tight and not broken. Check axle nuts and front wheel quick release to ensure they are tight. Ensure the locking lever on the quick release skewer is correctly tensioned, fully closed, and secured.
3. Steering	Ensure the handlebar and stem are correctly adjusted, tightened and allow proper steering. Perform a handlebar twist test (see assembly step 10) to ensure the stem clamp bolt security. Ensure the handlebar is set correctly in relation to the fork and the direction of travel.
4. Chain	Ensure the chain is clean, oiled, and runs smoothly. Extra care is required in wet, salty/otherwise corrosive, or dusty conditions.
5. Bearings	Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling. Check headset, wheel bearings, pedal bearings, and bottom bracket bearings.
6. Cranks and Pedals	Ensure pedals are securely tightened to the cranks. Ensure the cranks are securely tightened and are not bent.
7. Derailleur and Mechanical Cables	Check that the derailleur is adjutsted and functioning properly. Ensure shifter and brake levers are attached to the handlebar securely. Ensure all shifter and brake cables are properly lubricated.
8. Frame, Fork, and Seat	Check that the frame and fork are not bent or broken. If either frame or fork are bent or broken, they should be replaced. Check that the seat is adjusted properly, and seatpost quick release lever is securely tightened.
9. Motor Drive Assembly	Ensure Mid mounted motor is spinning smoothly and motor bearings are in good working order. Ensure all power cables running to Mid mounted motor are secured and undamaged. Make sure the Mid mounted motor axle bolts are secured and the torque arm, torque arm bolt, andtorque washers are in place.
10. Battery	Ensure battery is charged before use. Ensure there is no damage to battery. Lock battery to frame and ensure that it is secured. Charge and store bike and battery in a dry location, between 32 ˚F - 104 ˚F (0˚C-40˚C). Let bike dry completely before using again.
11. Electrical Cables	Look over connectors to make sure they are fully seated and free from debris or moisture. Check cables and cable housing for obvious signs of damage. Ensure headlight, taillight, and brake light are functioning, adjusted properly, and unobstructed.
12. Accessories	Ensure all reflectors are properly fitted and not obscured. Ensure all other fittings on bike are properly secured and functioning. Inspect helmet and other safety gear for signs of damage. Ensure rider is wearing a helmet and other required riding safety gear. Ensure mounting hardware is properly secured if fitted with a front rack, rear rack, basket, etc. Ensure the taillight and taillight power wire are properly secured if fitted with rear rack. Ensure the fender mounting hardware is properly secured if fitted with fenders. Ensure there are no cracks or holes in fenders. If installed, ensure the optional rear wheel lock is secured in the unlocked position and the key is removed before every ride.
13. Bolt Check	Check all bolts for proper torque specifications.

After covering a distance of 50-100 miles (80-160 kilometers), your cables may have stretched, your spokes may have loosened, and bolted connections could potentially become loose. To maintain the optimal performance and safety of your SINCH.2, it's crucial to schedule a tune-up with a certified and reputable bike mechanic following this initial break-in period. The specific mileage range for this tune-up may vary based on factors such as total weight, riding habits, and terrain conditions. Consistent inspections and tune-ups are vital to ensure that your bike continues to provide a safe and enjoyable riding experience.

Tire Information

Aventon uses tires that are designed for durability and safety for regular cycling activities and to be checked before each use for proper inflation and condition. Proper inflation, care, and timely replacement will help to ensure that your bike's operational characteristics will be maintained, and unsafe conditions avoided. Aventon Bikes recommends always staying within the air pressure range recommended in the specifications section of this manual.

It is critically important that proper air pressure is always maintained in pneumatic tires. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Failure to always maintain the air pressure rating indicated on pneumatic tires may result in tire and/or wheel failure.

Inflate your tires from a regulated air source with an available pressure gauge. Inflating your tires from an unregulated air source could overinflate them, resulting in a burst tire.
Even tires equipped with built-in flat-preventative tire liners, like those that come with bikes by Aventon Bikes, can and do get flats from punctures, pinches, impact, and other causes. When tire wear becomes evident or a flat tire is discovered, you must replace the tires and/or tubes before operating the bike or injury to operators and/or damage to your bike could occur.

When changing a tire or tube, ensure that all air pressure has been removed from the inner tube prior to removing the tire from the rim. Failure to remove all air pressure from the inner tube could result in serious injury.

Using aftermarket tires or inner tubes, not provided by Aventon Bikes may void your warranty, create an unsafe riding condition, or damage to your bike by Aveton Bikes. If required by law, ensure replacement aftermarket tires have sufficient reflective sidewall striping.
For more information on tire or tube replacement procedures, or questions about tire inflation, contact Aventon Bikes Product Support.
Link: https://support.aventon.com/contact-us or Call: 1-866-300-3311

Shifter and Derailleur

On the right side of handlebar, next to the brake lever, you can see two levers with 12-1 gears Those are derailleur levers. By pressing those levers, you can make the chain move to different gears to change your riding experience.

Warning Detection

Your bike from Aventon Bikes is equipped with an warning detection system integrated into the display and controller. In the case of an electronic control system fault an warning code should display. The following warning codes are the most common and can aid in troubleshooting. If your bike has an warning code displayed at any time it is recommended that you cease operation and contact Aventon Bikes immediately.

Warning Code	Definition
01	Motor overheat
02	Controller overheat
03	Battery low temperature charging protection
04	Battery high temperature charging protection
05	Battery low temperature operation protection
06	Battery high temperature operation protection
07	Motor lock protection
08	The software version is not the latest

Error Detection

Your bike from Aventon Bikes is equipped with an error detection system integrated into the display and controller. In the case of an electronic control system fault an error code should display. The following error codes are the most common and can aid in troubleshooting. If your bike has an error code displaved or any other issues at any time it is recommended that you cease operation and contact Aventon Bikes immediately.

Error Code	Definition
28	Under Voltage Protection
29	Over Voltage Protection
30	Controller Communication Fault
31	Battery Communication Fault
32	Display Communication Fault
40	Display Fault
41	Controller Fault
42	Motor Fault
43	Battery Fault
44	Torque Sensor Fault
45	Cadence Sensor Fault
46	Head Light Fault
47	Rear Light Fault
48	Turn Light Fault
49	Charger Mismatch
99	System Fault

Additional Information on Wear

Components of an electric bike are subject to higher wear compared to bikes without electric assist. This is because electric bikes can travel at higher average speeds than regular bicycles and are heavier. Increased wear is not a defect in the product and is not covered by the warranty. Typical components affected include the tires, brake pads and rotors, suspension forks, spokes, wheels, and the battery..



When a component exceeds its expected useful life, it can lead to unexpected loss of function, posing a risk of serious injuries or even death. It is crucial to closely monitor wear characteristics, including cracks, scratches, or any changes in color or component performance, as these signs may indicate that the component's useful life has been exceeded. If you notice such wear, replace the affected components immediately. If you are unsure about how to perform regular maintenance, it is highly recommended to seek assistance from a certified and reputable bike mechanic.

LIMITED WARRANTY

For detailed warranty terms and conditions, please visit our official warranty policy page at https://www.aventon.com/pages/warranty

LINK TO ASSEMBLY VIDEO AND ONLINE RESOURCES

"Please visit Aventon's Help Center at https://rideaventon.zendesk.com/hc/en-us to access the official Assembly Video in the Owner Resources section.

We are here to assist you! If you have any questions, you can get in touch through the Aventon Bikes Help Center at https://rideaventon.zendesk.com/hc/en-us/requests/new or by calling Aventon Bikes Product Support at 1-866-300-3311."