



AVENTON

User Manual

Current EXP / Current ADV
Electric Bicycle



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assembly video**



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Aventon App**

English • Original instructions • 01

Thank you for purchasing the Aventon Current EXP / ADV 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 MANUAL

This manual contains product details, equipment information, 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/trail use, helmet laws, child laws related 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, 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 surroundings. 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 traffic 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 not to ride in wet weather if it is avoidable. Ride in wet weather only if necessary.

An 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 specialized 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 pedaling 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 are 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 through axle. Aventon bikes use bolted on, through axle, or quick release wheel mounting mechanisms. 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.

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 condition without 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 can reduce 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 accessories 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 stem according to your preference for enhanced control and comfort. Ensure the grips are securely in place, preventing any unintended movement during your ride. Properly align the seat and seatpost, securing the seat clamp 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 secured into 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 the battery into the battery compartment of the frame, aligning the bolt holes, and installing the battery hardware to secure the battery in place.

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/vehicles 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 bumps, 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 in front 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, and using the pedal assist system, 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 brakes evenly and smoothly, 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.
- The eBike is not intended for use at elevations greater than 2000m above sea level.

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 Aventon 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.
- Extreme care should be taken when using the pedal assistance sensor 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 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 CURRENT is designed for use by persons 18 years old and older. Riders must have the physical condition, reaction time, and mental capability to ride safely and manage traffic, road conditions, 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. The CURRENT 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 Current EXP /Aventon Current ADV
Max. Load Capacity	300lbs. / 136 kg
Max. Speed	US: 20mph / 32km/h EU: 25km/h
Motor	36V 250W Mid mounted motor
Motor Water Resistance	IP67
Battery	36.4V 22Ah Li-ion
Range Average Per Charge	Up to 90 miles / 144km
Wheel Size	29*2.5 /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. 5 Hours
E-bike Water Resistance	IPX6
Weight	EXP: 52 LBS / 23.6kg Size: M without pedals ADV: 56 LBS / 25.4kg Size: M without pedals

* Range Per Charge 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 the lowest pedal assist mode. Actual results may vary based on differences in temperature, load, wind speed, road conditions, and other factors.

RIDING RANGE

The range of your bike from Aventon Bikes is the distance the bike will travel on a single full charge of the onboard battery. The range values in this manual are estimated based on expected usage characteristics of bikes by Aventon Bikes. Some of the factors that affect range include changes in elevation, speed, payload, acceleration, number of starts and stops, ambient air temperature, tire pressure, and terrain.

We suggest that you select a lower assistance level when you first get your bike from Aventon Bikes to get to know your bike and travel routes. Once you become familiar with the range requirements of your travel routes and the capabilities of your bike, you can then adjust your riding characteristics if you desire. The following table provides general range estimates based on various factors. This table is meant to help owners to understand the factors that can contribute to decreased range. Aventon Bikes makes no claims to the range that individual users might experience in a particular use case.

The MAX range of this bike is 105 miles.

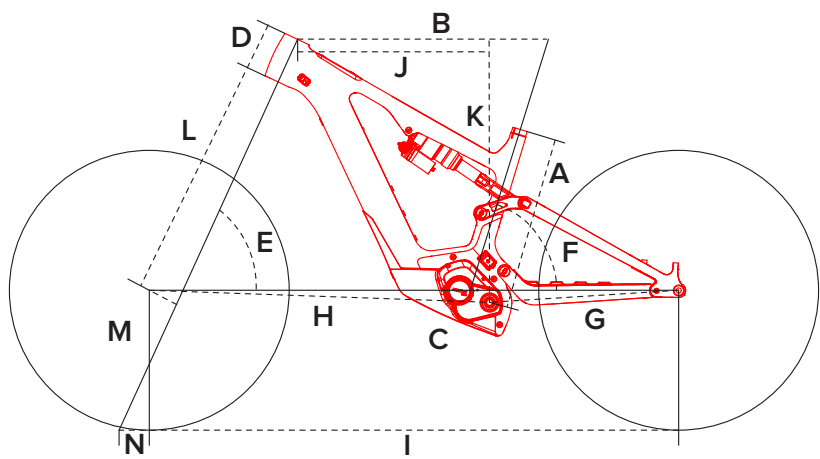
INTENDED USE



The Current is intended and tested for General Purpose Riding (Condition 4) use only. This is a set of conditions for operation of a bicycle that includes Conditions 1, 2, and 3, or downhill grades on rough trails at speeds less than 40 km/h (25 mph), or both. Jumps are intended to be less than 122 cm (48 in.).

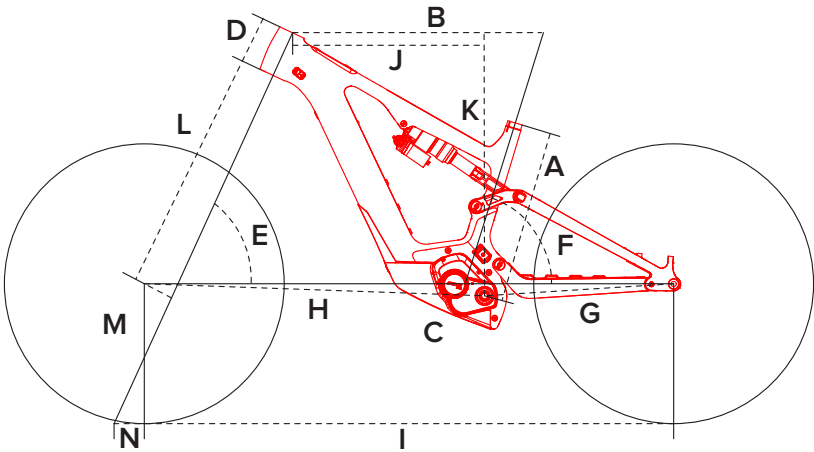
Per EN 15194: The A-weighted emission sound pressure level at the driver ears is less than 70 dB (A).

GEOMETRY FOR Current EXP



Item	Frame Size	S	M	L	XL
	Rider Height (Range)	<160cm	161cm-175cm	176cm-185cm	>185cm
A	Seat Tube Length (mm)	380	410	440	470
B	Top Tube Length Horizontal (mm)	571.3	598.5	626.6	654.9
C	B.B. drop (mm)	26.6	26.6	26.6	26.6
D	Headtube Length (mm)	100	110	125	140
E	Headtube Angle (°)	64.6	64.6	64.6	64.6
F	Seat Tube Angle (°)	76.6(EEE) 73.1(REAL)	76.6(EEE) 73.1(REAL)	76.6(EEE) 73.1(REAL)	76.6(EEE) 73.1(REAL)
G	Chain-stay Length (mm)	445	445	445	445
H	Front Wheel Center (mm)	750.8	780	811.4	842.7
I	Wheel Base (mm)	1196.2	1225.4	1256.8	1288.1
J	Reach (mm)	425.5	450.4	475.3	500.2
K	Stack Height (mm)	611	620.3	634	647.8
L	Fork Length (mm)	561	561	561	561
M	Fork Offset (mm)	44	44	44	44
N	Trail (mm)	127	127	127	127
	Standover (mm)	837.4	829.2	830.6	826
	Wheel size in inch	29"	29"	29"	29"

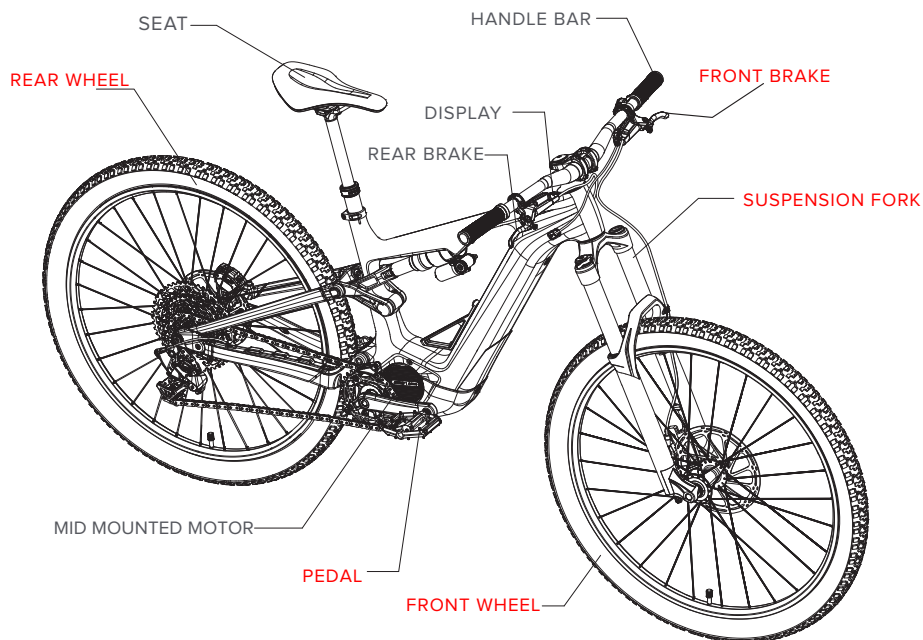
GEOMETRY FOR Current ADV



Item	Frame Size	S	M	L	XL
	Rider Height (Range)	<160cm	161cm-175cm	176cm-185cm	>185cm
A	Seat Tube Length (mm)	381	410	442	472
B	Top Tube Length Horizontal (mm)	571.3	598.5	626.6	654.9
C	B.B. drop (mm)	26.6	26.6	26.6	26.6
D	Headtube Length (mm)	105	110	125	140
E	Headtube Angle (°)	64.3	64.6	64.6	64.6
F	Seat Tube Angle (°)	76.6(EEE) 73.1(REAL)	76.6(EEE) 73.1(REAL)	76.6(EEE) 73.1(REAL)	76.6(EEE) 73.1(REAL)
G	Chain-stay Length (mm)	445	445	445	445
H	Front Wheel Center (mm)	750.8	780	811.4	842.7
I	Wheel Base (mm)	1196.2	1225.4	1256.8	1288.1
J	Reach (mm)	425.5	450.4	475.3	500.2
K	Stack Height (mm)	611	620.3	634	647.8
L	Fork Length (mm)	561	561	561	561
M	Fork Offset (mm)	44	44	44	44
N	Trail (mm)	127	127	127	127
	Standover (mm)	837.4	829.2	830.6	826
	Wheel size in inch	29"	29"	29"	29"

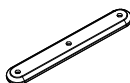
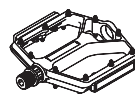
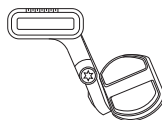
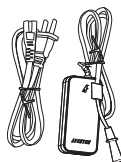
EBIKE ASSEMBLY

Assembled overview



WHAT IS IN THE BOX?

- 1* Charger
- 2* Pedals
- 2* Front/rear reflectors
- 2* Reflector mounts
- 1* Owner's manual
- 1* Grease
- 1* Owner's manual (Li-ion Battery Charger)
- 1* Hex key set
- (EU: 4, US: 2)* Wheel reflectors
- 2* Two-in-one thread buckle
- 1* Bottle cage plate
- 1* Battery charging connector
- 2* Valve stem for tubeless tire
- 1* Shock pump
- 1* Purpose of Incidental Items



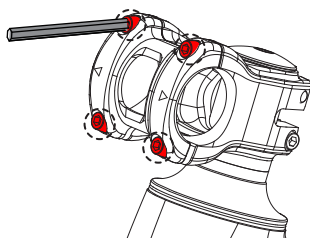
ASSEMBLY

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.

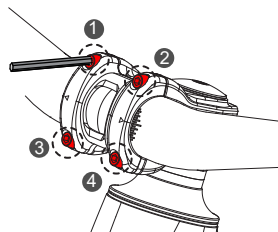
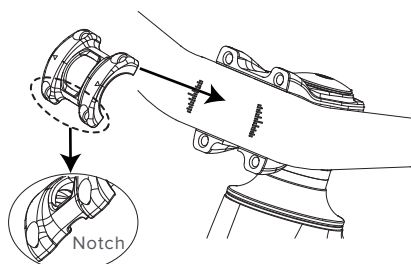
Step 1. Unpack the bike.

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

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

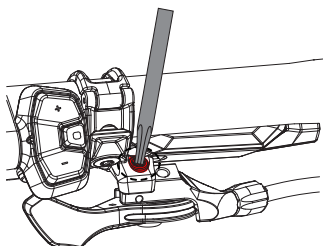


Step 3. Position the handlebar into the stem. Install the stem faceplate in the corresponding position. Lightly snug the bolts for now.(we will come back to this on step 10).
Note: The notch in the stem faceplate should be facing down.



Step 4. Dropper post lever installation.

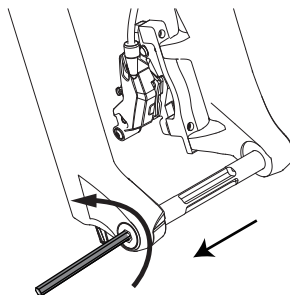
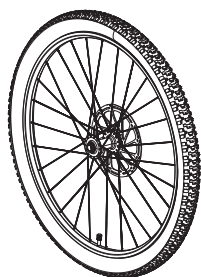
Move the dropper post lever to the corresponding position on the left side of the handlebar. Align the dropper lever to the mounting bracket and adjust it to the desired position, and then use T25 wrench to tighten the bolt to a torque of 4Nm.



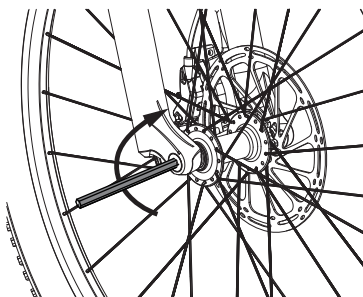
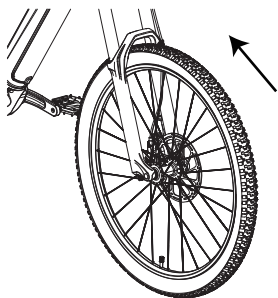
Step 5. Front wheel installation.

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 spacer between the brake pads in the caliper.

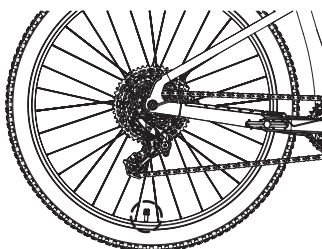
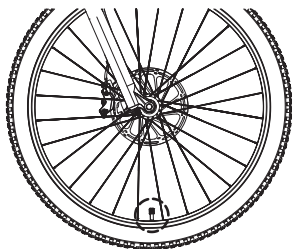
Note: Do not squeeze brake lever before installing the front wheel.



Step 6. Place the front wheel into the front suspension fork and align it with the axle hole. Apply grease to the threads at the end of the axle. Install the axle into the fork lowers to secure the wheel. Tighten the axle, turning clockwise. Torque the axle to 9-13.5 Nm, ensuring the front wheel does not shake.

**Step 7. Inflate tires.**

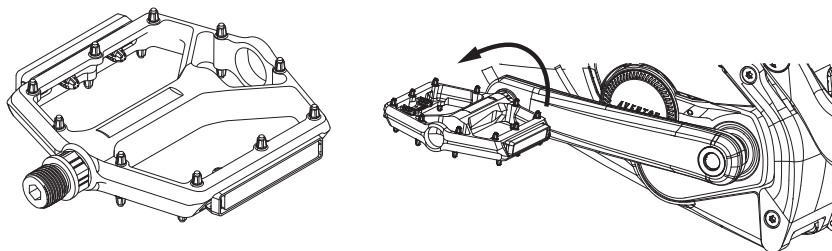
Examine both wheels to ensure uniform spoke tension, verify that the tire is evenly seated on the rim, and confirm that the wheel spins true. Proceed to use a pump with a Presta valve head to inflate each tire to a pressure range of 20 to 40 psi (Recommended safe air pressure value for mountain bikes)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



Step 8. Pedal installation.

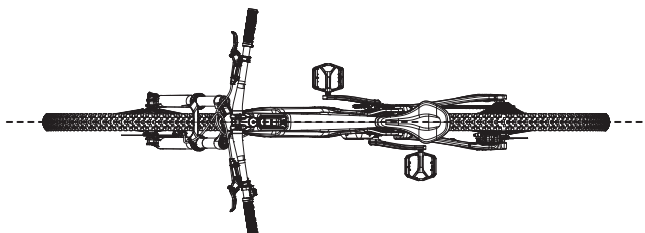
The right pedal (labeled "R") features a standard thread. Apply grease to the threads. Carefully thread the right pedal onto the crank on the right side of the bicycle by hand. Tighten the pedal clockwise with a 15mm open wrench. The left pedal (labeled "L") has a counterclockwise thread. Apply grease 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 cross threading the pedal threads when installing the pedals.

Note: Torque each pedal to 30-35N. m.

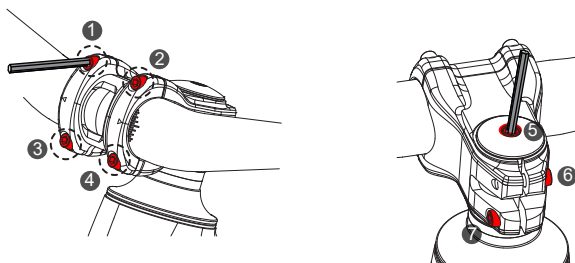


Step 9. Adjusting the handlebars.

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 scale lines on the stem faceplate.



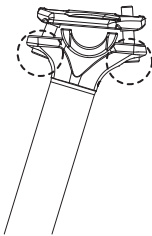
Step 10. After adjusting the handlebar, use your 4mm hex wrench to tighten the stem face plate bolts and stem pinch bolts to a torque of 6Nm. Tighten the top (1 & 2) bolts first ensuring there is no gap between the stem and the stem faceplate. Use a 5mm hex wrench to tighten the stem preload bolt to a torque of 6-8Nm. Alternate tightening the two stem pinch bolts until both reach a final torque of 10Nm.



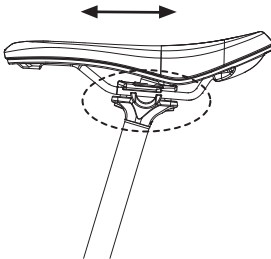
Step 11. Seat installation.

A. Installing the saddle. For the size XL Current, 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 12.

● Loosen the two bolts at the top of the dropper seat post, Use a 4mm Allen wrench to unthread the bolt and clamp plate above the seat tube; allowing enough space to slide the two rails between the lower and upper seat clamp.



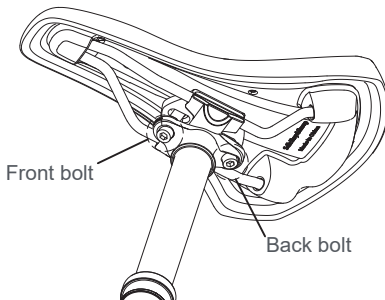
B. Slide the two rails of the seat between the upper and lower seat clamp.



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 (8Nm).

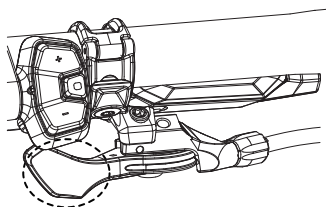


D. Confirm that the seat is securely attached by giving it a tug. It should not move or rotate when properly installed.

Step 12. Adjusting Dropper Post Height

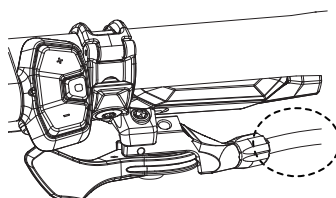
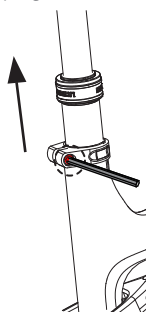
To adjust the dropper post height, follow these guidelines:

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. Tighten the seatpost clamping bolt to a torque of 7Nm.

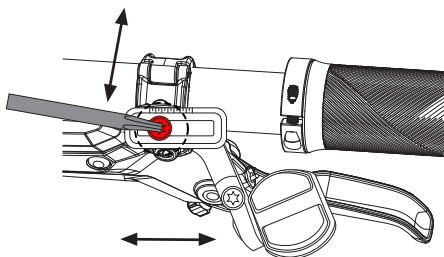
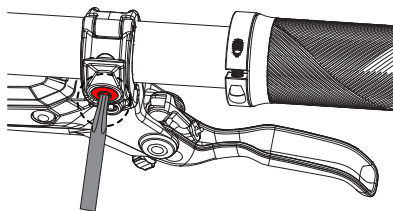


Step 13. E-Shifter installation.

Use a T25 wrench to loosen the corresponding fixing bolt on the right brake lever, then install the Gear E-Shifter. Move it up, down, left, and right to the appropriate position, and then tighten the bolt to a torque of 5Nm.

Note: After installation, you need to test the gear shifting functionality before riding.

For ADV models, ensure the mechanical shifter is secured and positioned to the rider's preference using a 5mm hex wrench. Torque to 5Nm.

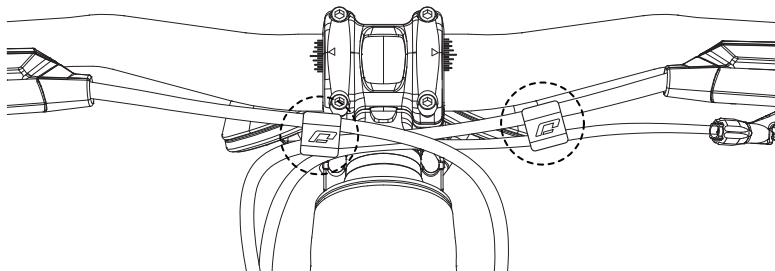


Step 14. Wire buckle installation

Attach the shift cable housing and rear brake hose with a 4mm+5mm open two in one wire buckle.

Attach the front brake hose and dropper post housing with a 4mm+5mm open two in one wire buckle.

Note: When wiring, do not forcefully pull or tug on the brake hoses or cable housing.



Torque Specs

Location	Tool	Torque
Stem Top Cap Bolt	4mm Hex	5-7Nm
Stem Clamping Bolts	4mm Hex	8-10Nm
Stem Faceplate Bolts	4mm Hex	5-6Nm
Front Wheel Thru-axle	6mm Hex	9-13.5Nm
Rear Wheel Thru-axle	6mm Hex	10-16Nm
Front Brake Caliper Bolt	5mm Hex	9-12Nm
Rear Brake Caliper Bolt	5mm Hex	9-12Nm
Disc Bolts	T25 Torx	5-7Nm
Grip Clamp Bolts	3mm Hex	3Nm
Dropper Post Lever Bolt	T25 Torx	3-5Nm
Brake Lever Clamp Bolts	T25 Torx	5-6Nm
E-shifter	T25 Torx	3-5Nm
Display Wireless Button	2.5mm Hex	0.8-1.2Nm
Dropper Post Cable Bolt	2.5mm Hex	2-3Nm
Display Bolts	2mm Hex	0.4-0.6Nm
Rear Shock Absorber Front/Rear Bolts	4mm Hex	10Nm
Mudguard Bolts	2.5mm Hex	0.8-1.2Nm
Charging Port Bolts	2mm Hex	2-4Nm
Motor Lower Cover Bolts Front	3mm Hex	1.5-2Nm
Motor Lower Cover Bolts Rear	4mm Hex	3-5Nm
Water Bottle Rack Base Bolts	4mm Hex	3-5Nm
Battery Bolt	5mm Hex	10-12Nm
Frame Cable Grommet Bolt	2mm Hex	0.4-0.6Nm
Seatpost Clamp Bolt	5mm Hex	6-7Nm
Seat Adjustment Bolts	4mm Hex	8-10Nm

Location	Tool	Torque
Motor Bolts	5mm Hex	25Nm
Chainring Lockring	Special Internal Thread Spline Sleeve	30-35Nm
Crank Bolts	8mm Hex	45-50Nm
Pedals	6mm Hex	30-35Nm
Chain Guide Bracket Bolts	4mm Hex	4-4.5Nm
Chain Guide Bolt	4mm Hex	1.8-2Nm
Motor Side Cover Bolts	2mm Hex	0.4-0.6Nm
Wheel Speed Sensor Bolts	2.5mm Hex	5-7Nm
Rear Derailleur Bolt	8mm Hex	35Nm
Upper Main Spindle Bolt	4mm Hex	8Nm
Upper connecting shaft Bolts	5mm Hex	12Nm
Lower Main Spindle Bolt	5mm Hex	17Nm
Rear triangle connecting shaft Bolts	5mm Hex	12Nm

BATTERY CHARGING

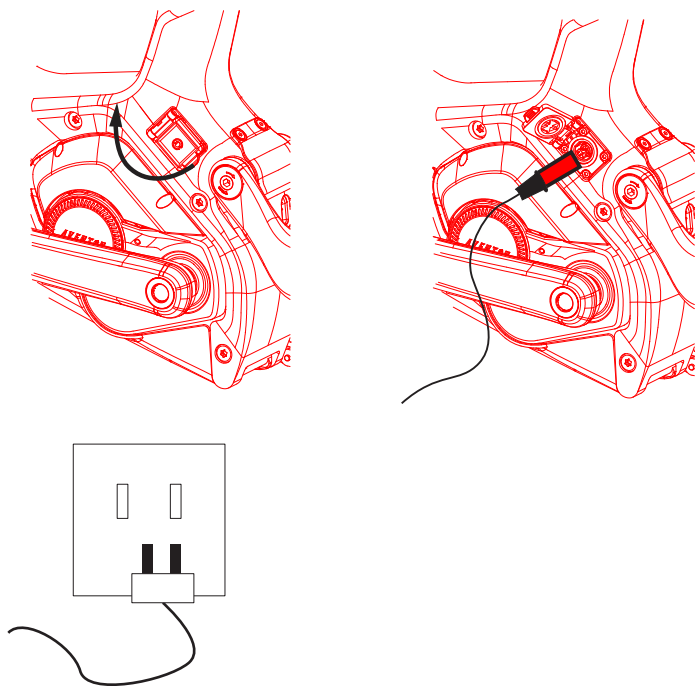
Charging Procedure

Follow these steps for charging your Aventon bike:

1. Ensure the bike is turned off.
2. Open the charging port cover.
3. Place the charger on a flat concrete or brick surface. Attach the DC output plug (round barrel connector) from the charger into 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) into 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.

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

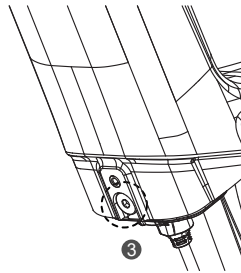
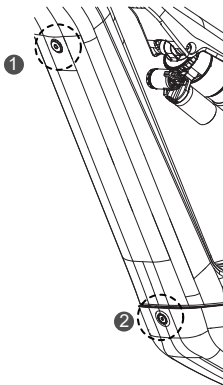
- Check the charger, charger cables, and battery for damage before beginning each charge.
- Be sure to charge in an area where it is clear and safe from any potential damage or tripping situations that can occur while it is charging. Always charge your battery in temperature between 32 °F - 104°F (0°C-40°C).
- The battery should be recharged after each use, so it is ready to go the full range for your next ride.
- Charging the battery normally takes 4-5 hours.
- The indicator light on the charger will show red light while the battery charges. When charging is complete, 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 unnecessary 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 bike, invert the bicycle or place it in a work stand. Use a 3mm hex wrench to remove the single bolt for the lower motor cover so it can tilt out of the way. Turn the terminal plug lock clockwise to loosen and remove the plug from the battery. Use a 5mm hex wrench to remove the two battery mounting bolts on the downtube of the bike. Carefully slide the battery out of the frame of the bike using the strap attached to the battery.



Use caution to avoid damage to battery connector terminals, which are exposed when the battery is 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 IN THE BIKE

- DO NOT force the battery into the frame. Align the bolt holes and install the two battery bolts using a 5mm hex wrench.
- Tighten the battery bolts to 10-12Nm.
- Tilt the lower motor cover closed and install the mounting bolt using a 3mm hex wrench. Tighten this bolt to 1.5-2Nm.

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% .
- 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 Bike charger to charge the battery to 75%.



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.

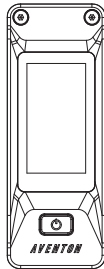


DO NOT open the battery housing, which will void the warranty and can result in damage to the battery, property, or cause serious injury and/or death.

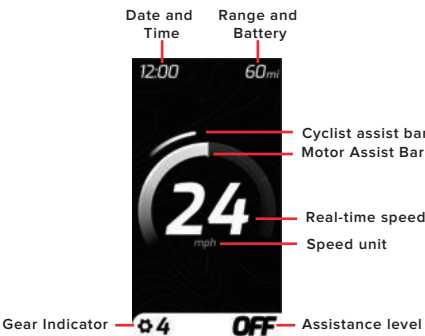
Current EXP /Current ADV QUICK START GUIDE

GETTING STARTED

Press and hold the  button on the display to turn on the bike.

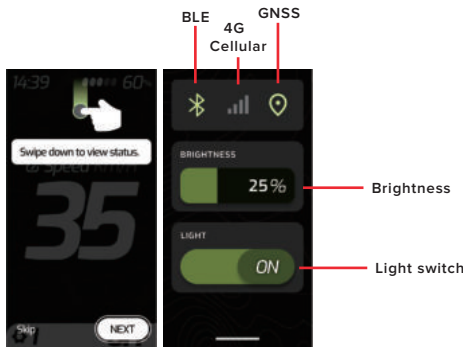


HOME PAGE



STATUS PAGE

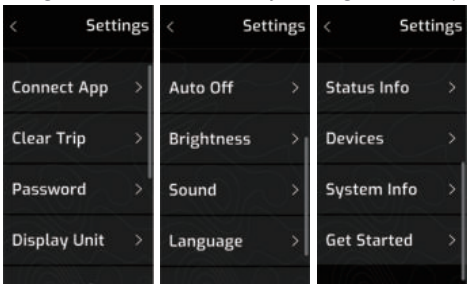
Swipe down from the top of the status bar to access the status page.



SETTINGS PAGE

Swipe up from the bottom to switch to the settings page.

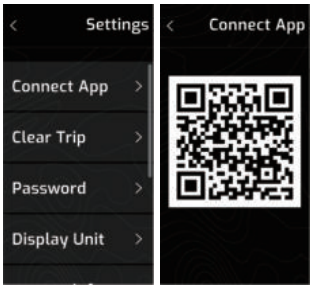
1. The settings page can be scrolled up and down to view all the settings items;
2. Tap the < button to return to the main menu;
3. Any settings item can be entered by clicking the corresponding area.



CONNECT TO APP

To connect your phone to the e-bike using the Aventon APP via Bluetooth, follow these steps:

1. Scroll up and down the page, then select the “Connect to APP” option and tap the button to access the page;
2. Open the Aventon APP on your phone and go to the scan code binding interface. Scan the QR code, with the Aventon APP, displayed on the screen to establish the connection;
3. Tap the < button to return to the settings page.



PAGE SWITCH

You can choose the “Get Started” option to go in and check out the following operations.

1. Swipe left or right to switch data pages.
2. Swipe up from the bottom to switch to the settings page.
3. Swipe down from the top of the status bar to access the status page.
4. Tap on the time or date at the top of the status bar to switch between the time and date.
5. Tap the error icon to go to the error page and check detailed error information.
6. Tap the battery area on the top status bar to switch between battery level and range.
7. Long press the number area on the data page to switch to the data options page.

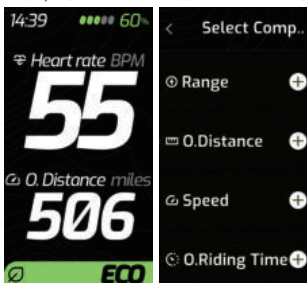




RIDING DATA PAGES

When you long press on the number area in the data page, it will jump to the data options page, where you can scroll up and down to select data options. After selecting a certain option, it automatically returns to the current data page and displays the selected data. The data page includes the following twenty-two options:

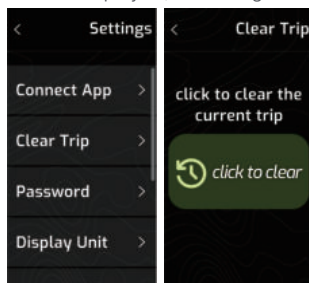
Range, Speed, O.Distance, O.Riding Time, O.Calorie, O.Avg Speed, O.Max Speed, T.Distance, T.Riding Time, T.Calorie, T.Avg Speed, T.Max Speed, Chrono Tour, Slope, Compass, Altitude, Cadence, Motor Torque, Rider Torque, Motor Power, Rider Power, Clock.



SETTING INSTRUCTIONS

Clear Trip

1. Select the "Clear Trip" option and short press the button to access the page;
2. Tap the 'Click to clear' button.
3. "Done" is displayed, indicating that the Trip statistics have been successfully cleared.

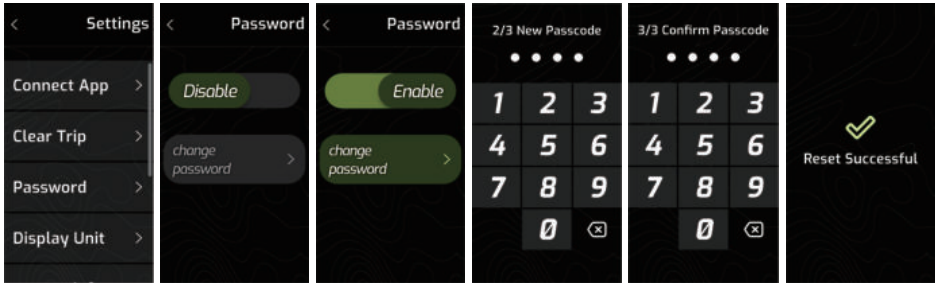


Power-on Password Setting Options

The power-on password setting allows you to enable or modify the power-on password. If enabled, you will need to enter the password each time you restart the e-bike. By default, the power-on password function is disabled.

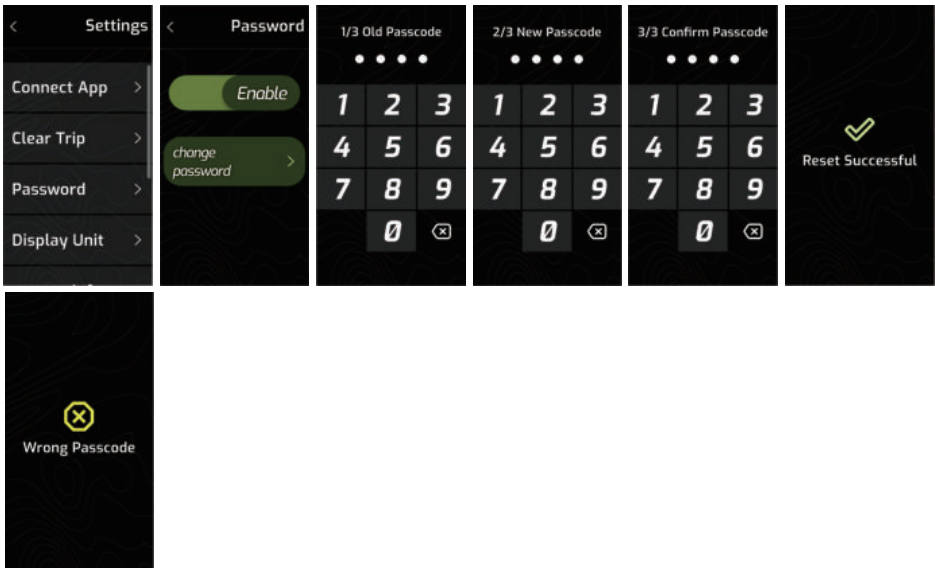
To enable or set a power-on password:

1. Select the "Password" option, then tap the "Disable" or "Enable" button to turn the power-on password function on or off;
2. If you enable the password function without setting a password, you will be directed to the "2/3 New Passcode" page;
3. On the "2/3 New Passcode" page, use the number buttons to enter a new password. After entering it, you will be taken to the "3/3 Confirm Passcode" page;
4. Enter the new password again on the "3/3 Confirm Passcode" page. If it matches the first entry, the system will display a "Reset Successful" prompt and return to the password page;
5. Tap the < button to return to the the settings page.



To change the power-on password:

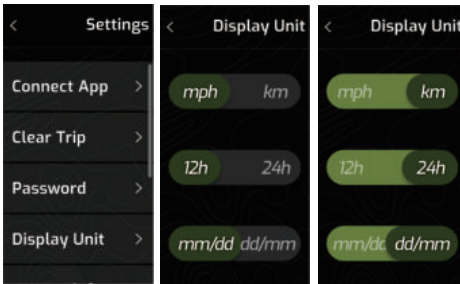
1. Select the "Password" option, then tap the "Disable" or "Enable" button to turn the power-on password function on or off;
2. Tap the "change password" button to go to the "1/3 old Passcode" page.
3. If you enter the wrong password, the interface will display "Wrong Passcode" Re-enter the correct password. If the old password is correct, you will proceed to the "2/3 New Passcode" page;
4. On the "2/3 New Passcode" page, use the number buttons to enter a new password. After entering it, you will be taken to the "3/3 Confirm Passcode" page;
5. Enter the new password again on the "3/3 Confirm Passcode" page. If it matches the first entry, the system will display a "Reset Successful" prompt and return to the password page;
6. Tap the < button to return to the the settings page.



Display Unit Options

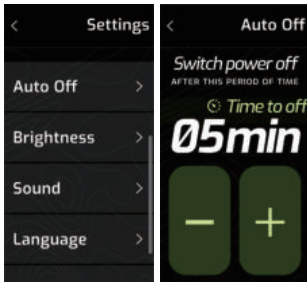
There are three Switch controls, which control the display method of mileage units, the display method of time, and the display method of date:

1. Distance units: mph, km;
2. Time: 12h(AMPM), 24h;
3. Date: mm/dd (month/day), dd/mm (day/month).



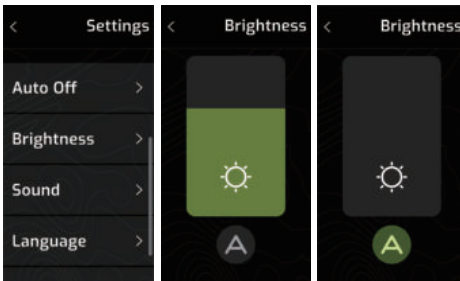
Auto off Options

The auto off time when idle can be modified through the '+' or '-' buttons, supporting a range of 1 to 99 minutes.



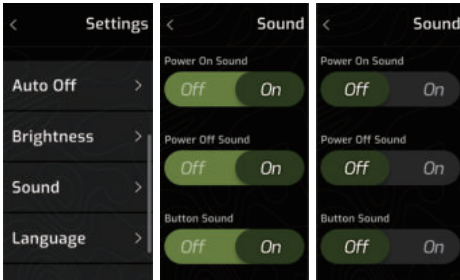
Brightness Options

1. The backlight adjustment has a button control and a slider control;
2. The slider control can adjust the backlight brightness by sliding up and down;
3. After selecting the "A" button, the automatic backlight adjustment will take place, and the slider control will automatically turn gray.



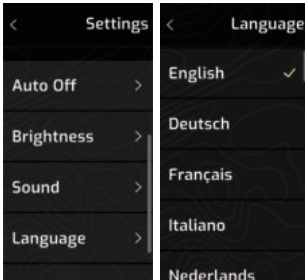
Sound Options

Tap the “Sound” button to switch to the sound page, where you can enable or disable sound functions according to your needs: power on, power off, and buttons.



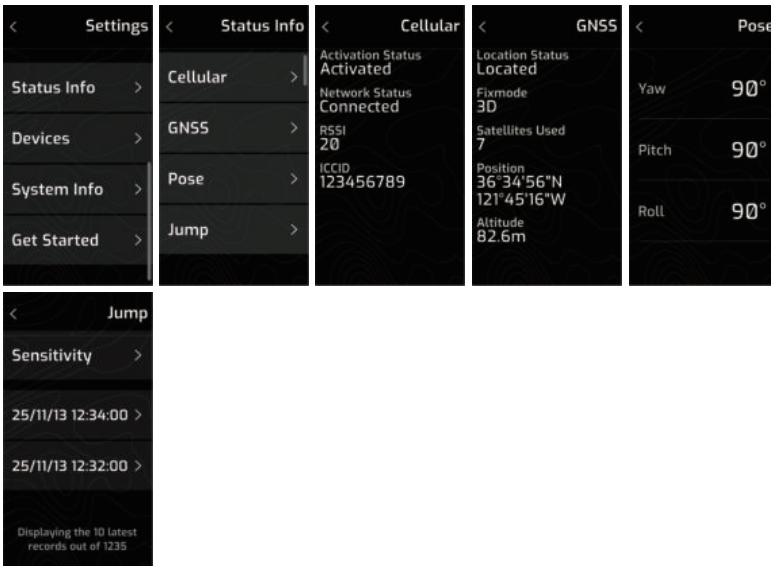
Language Options

Tap the “Language” button to go to the language page, where you can choose the language option that suits your needs: English, Deutsch, Français, Italiano, Nederlands and Español.

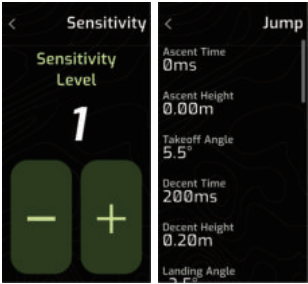


Status Info

The status page will have four sub-items: cellular, GNSS, Pose, and Jump.



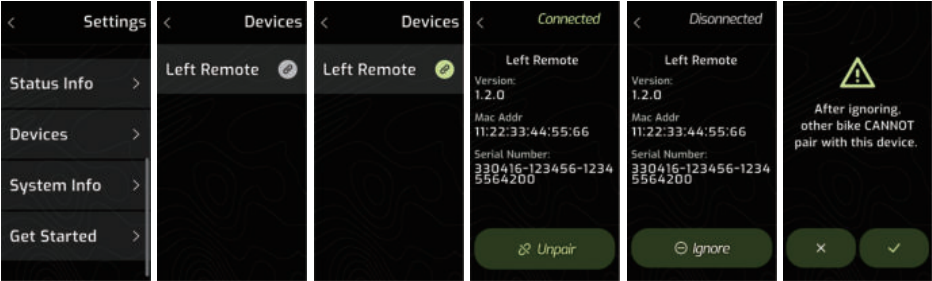
On the "Jump" page, tap "Sensitivity" to enter the sensitivity settings for the jump statistics feature. You can set 5 levels of sensitivity using the "-" / "+" buttons, with levels 1 to 5 corresponding to hang times as follows: 1L = 200ms, 2L = 150ms, 3L = 100ms, 4L = 75ms, 5L = 50ms. When the bike's hang time exceeds the set value, a jump result will be recorded. Up to the ten most recent records are displayed. Tap Record to view jump data, which includes: Ascent Time, Ascent Height, Take-Off Angle, Descent Time, Descent Height, Landing Angle, Jump Distance, Max Speed, and Impact Force.



Devices accessory management

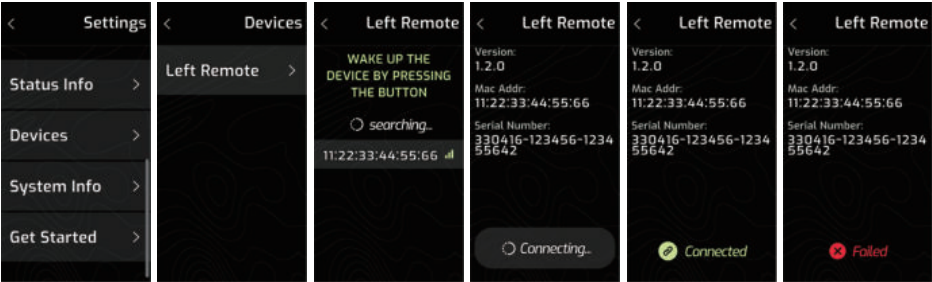
Left display panel button status:

- 1. The button on the left side of the display is a wireless button, which has been successfully paired with the bicycle from the factory. When the 'Left Remote' icon is gray, it indicates that the button is not connected to the bicycle. When the 'Left Remote' icon is green, it indicates that the button is connected to the bicycle.
- 2. Clicking the 'Left Remote' will take you to the details page, where there is a button at the bottom. When connected, it shows 'Unpair'; clicking it will unpair the button.
- 3. When not connected, it shows 'Ignore'; if you click it, it will forcibly unpair the button (usually used when the button is already broken). In normal circumstances, pressing any button on the left-side display can wake up the left button, which can then immediately connect to the bicycle.



Left display panel button pairing

- 1. When the bicycle does not have a paired instrument button or the instrument button has been unbound, the connection icon on the 'Left Remote' will not be displayed.
- 2. After clicking the 'Left Remote' page, you can enter a wireless button search page. When the user clicks any button on the wireless button, it will be displayed, and generally, the one with the strongest signal is the current button.
- 3. After clicking the option to be matched, it will automatically connect. If the matching is successful, 'Connected' will be displayed at the bottom; if it fails, 'Failed' will be shown.



Left display panel button

The left display button is a wireless button. To ensure longer usage time, it goes into sleep mode when powered off, and pressing any button can wake it up. When the bicycle is powered on, it can immediately connect to the bicycle after waking up. The dashboard has three buttons:

1. Use '▲'/'▼' to switch assistance level.
2. When the bike is not in the OFF position, long pressing the '▼' button can activate the WALK function. Releasing it will enter Hold mode, allowing the bike to actively prevent rolling backward. Press '▲' to exit, and press the '▼' button to re-enter the assist mode.
3. Use the '□' to switch pages.



There is an LED light on the button pad that lights up briefly when the button is pressed, and we can see three states:

1. The red light indicates low battery and needs a new button cell battery;
2. The blue light indicates not connected;
3. The green light indicates normal communication with the bike.



System Info

After entering the system information display, information such as the vehicle model, serial number, and motor rated power will be shown.



OPERATION INSTRUCTIONS

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.
- 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 the tires used on your bike. some racks may not accommodate all tire widths.
- When carrying your bike on a vehicle rack for transport, 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.
- Bike vibration detection will be performed even when the bike is powered off. If the bike is in transportation, it will remain in a vibrating environment. To avoid false detection in this situation, enable transportation mode within the Aventon APP. Vibration detection will no longer be performed and it will automatically disable after the next startup.

USER MAINTENANCE AND SERVICE INSTRUCTIONS

Basic Bike Care



If you do not have the experience, skill, and tools to complete maintenance and/or adjustment on 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 ensuring 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, cassette, chainring, and derailleur). - Check wheel trueness and for quiet wheel operation (without spoke noise). - Check condition of frame for any damage	- Clean frame by wiping frame down with damp cloth. - Use barrel adjuster (s) to tension derailleur 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, and operation, bleed brakes as needed. - Inspect shift function, adjust as needed. - Check chain stretch. - Check shifter cable for corrosion or fraying. - Check spoke tension. - Check accessory mounting (mounting bolts, hardware, and alignment).	- Clean and lubricate drivetrain. - Check crankset and pedal torque. - Clean and lubricate shift cable. - True and tension wheels if any loose spokes are discovered. - Grease thru-axle/s if necessary.	- Replace shift cable if necessary. - Replace brake pads if necessary.
Every 6 Months, 1207-2011 km (750- 1250 mi)	- Inspect drivetrain (chain, chainring, cassette, and derailleur). - Inspect all cables and housings.	- Standard tune-up by certified, reputable bike mechanic is recommended.	- 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 rotors. Ensure the brakes are correctly adjusted, and display no obvious wear. Ensure brake levers are lubricated and tightly secured to the handlebar if applicable. Test that the brake levers are firm and that the levers do not touch the grips. Ensure the brakes are bled as needed.
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 the front and rear through axles to ensure they are secure and properly torqued.
3. Steering	Ensure the handlebar and stem are correctly adjusted, tightened and allow proper steering. Perform a handlebar twist test 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 linkage 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 adjusted and functioning properly. Ensure shifter and brake levers are attached to the handlebar securely. Ensure the shifter cable is 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, discontinue riding until the parts are replaced and properly installed. Check that the seat is adjusted properly, and seatpost clamp 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 bolts are secured and properly torqued.
10. Battery	Ensure battery is charged before use. Ensure there is no damage to battery. Ensure battery is properly secured to the bike. 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 if applicable 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 Aventon Bikes, 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 Aventon 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://rideaventon.zendesk.com/hc/en-us/requests/new> or Call: 1-866-300-3311

Shifter and Derailleur

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

Note: Current EXP models use a SRAM e-shifter which does not require regular maintenance. It is a battery operated button shifter, wirelessly paired to the derailleur.

Warning Detection

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

Warning Code	Definition
02	Motor overheat protection
03	Controller overheat protection
04	Low temperature charging protection
05	High temperature charging protection
06	Low temperature battery operation protection
07	High temperature battery operation protection
08	Motor lock protection
09	Current software not up to date
101	GPS hardware module disconnect
102	G-sensor chip ID mismatch
103	G-sensor hardware module disconnect
104	RTC fault
105	ECU battery not detected
106	ECU battery charge fault
107	Part change
111	Compass Sensor hardware module disconnect
112	Altitude Sensor hardware module disconnect
120	Storage fault
121	Bluetooth hardware module disconnect
122	SIM card not detected
123	Cellular hardware module disconnect
124	Some configurations are not configured

Error Detection

Your bike from Aventon Bikes is equipped with an error detection system integrated into the display and the 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 displayed at any time, it is recommended that you cease operation and contact Aventon Bikes immediately.

Error Code	Definition
21	Motor phase current error
23	Motor phase error
24	Motor hall error
28	Low voltage protection
29	Over voltage protection
30	Controller communication failure
31	Battery communication failure
33	ECU communication failure
34	Power-on password initialization failure
41	Controller fault
42	Motor fault
43	Battery fault
44	Torque sensor fault
45	Speed sensor fault
146	Internal communication failure
178	Security verification expired
179	Security verification failed

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 Ebike Technical Assistance 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."