This manual is intended for the following Avalon model:

E-Pro and E-Pro Sport

Thank you for choosing an Avalon electric bike. This manual also serves as a guide for enjoyable and safe use of your electric bike.

This manual is universal for all Avalon models. You may come across information that does not apply to your specific bike. As you read through the manual, you will discover which information is relevant to your chosen Avalon model.

Please read this manual carefully and in its entirety before using the bike for the first time. For your own safety, check that all components are in good condition and securely mounted.

During an initial test ride, we recommend getting accustomed to the brakes. Depending on the model chosen, the braking force may vary. Excessive braking can result in skidding and a fall, so it's wise to get a good feel for the braking power of your bike before hitting the road.

Reduce your speed on slippery surfaces such as wet, snowy, icy, or muddy roads and maintain a greater distance from the vehicle in front, as your braking distance may be significantly longer.

Although this bike can perform well in rainy and snowy conditions, ensure that no water enters the motor or controller. This can likely cause damage to the electronic system. Therefore, avoid riding through puddles as much as possible.

If you wish to remove, open, replace, or adjust parts, we recommend seeking assistance from a specialist with the appropriate knowledge, skills, tools, and spare parts.

Do not allow anyone who is unfamiliar with how this bike functions to ride it.

We wish you a wonderful cycling experience and hope that your Avalon bike contributes positively to it.

Important before using the bike

MANUAL

All Avalon electric bikes are classified as "pedelecs," meaning the motor is only activated when you pedal (in accordance with the European standard EN-15194).

Only the walk assist mode can function without pedaling, with a maximum speed of 6 km/h.

Avalon's top models use a mid-drive motor, which is directly integrated with the pedals. In addition to the motor's different position, some of these bikes feature a different sensor that measures the force applied to the pedals and amplifies it. The amount of assistance provided depends on the selected support level.

General technical specifications

- Dimensions (LxWxH): 1900x700x1180
- Weight: 25 kg
- Maximum speed: 25 km/h +/- 10%
- Maximum load capacity: 120 kg
- Average range with full battery: On average, we estimate approximately 4 kilometers per Ah.
- Average energy consumption per 100 km: 700 W
- The mentioned values apply to: New battery - Normal load - No external weather influences - 25 degrees Celsius ambient temperature - Dry flat road

Technical specifications of the 2A charger

- Charging time with an empty battery: Approximately 1 hour per 2Ah.
- Input voltage: 230V/50Hz
- Maximum charging power: 65W

Technical specifications of the battery

- Battery type: 31V +/- 1V
- Voltage: 36V
- Capacities for battery in carrier (12, 15, or 18Ah): Respective capacities of 432Wh, 540Wh, 618Wh
- Capacities for battery in frame (15 or 20Ah): Respective capacities of 540Wh or 720Wh

Technical specifications of the control unit

- Undervoltage protection: 31V +/- 1V
- Overcurrent protection: maximum 13A

Technical specifications of the mid-drive motor

- Motor type: DC servo motor, brushless, low noise
- Continuous rated power: 250W
- Nominal voltage: 36V
- Nominal/maximal output torque: 42Nm/80Nm
- Motor efficiency: 81% (+/- 5%)

Technical specifications 2ort he front hub motor

- Motor type: DC servo motor, brushless, low noise
- Continuous rated power: 250W
- Nominal voltage: 36V
- Nominal/maximal output torque: 22Nm/40Nm
- Motor efficiency: 78% (+/- 5%)

The design of all Avalon electric bikes is based on ergonomic principles, mechanical properties of the materials used, and the physical characteristics of humans, resulting in the best possible riding characteristics.

- The intelligent design of the bike and the thoughtfully selected and applied components result in a safe bike with excellent riding characteristics and easy operation.
- The lithium batteries used by Avalon are of the latest generation (NiMnCo) and deliver the most energy in the most compact housing possible while maintaining good performance at low temperatures. The battery offers durable use and is environmentally friendly.
- The bike is built on an aluminum frame, which is lightweight, handy, and strong, ensuring a long lifespan.
- The maximum speed at which the motor is engaged is 25 km/h, fully complying with the EN-15194 standard that defines the requirements for electric bikes. This guarantees the safety of our bike users.
- The achievable range with a full battery depends on the load, road conditions, number of starts and stops, tire pressure, the level of assistance set on the bike computer, and the user's charging and maintenance practices. For more information, please refer to our website.

Battery and Range

One topic that is most discussed both before purchasing a bike and during the use of an already purchased bike is the battery range. Below, we explain the Avalon standpoint. Important: For an accurate reading of the remaining battery capacity, it is necessary to fully discharge and fully charge the battery three times so that the smart battery controller can calibrate correctly.

Avalon only uses A-brands in the assembly of its bikes, and this certainly applies to the batteries. They are usually the most expensive component of the bike and therefore deserve extra attention. The range of a full battery cannot be specified in advance, only as an approximation. As an example, we deliver our bikes with a tire pressure of 4 bar. If this pressure decreases to 3 bar, it still feels like a hard tire but the range will decrease by approximately 25%, depending on the rider's weight.

There are countless factors that can positively or negatively affect the range. The most important ones are: proper use of gears, rider's weight, tire pressure, freewheel resistance of the wheel and gear hubs, brake freewheel, selected assistance level, frequent stops at traffic lights, frequent changes in speed, headwind or tailwind, uphill and/or downhill riding, type of surface, dry or wet conditions, degree of pedaling effort, battery age, and many other smaller influences. Based on the above, it is not possible to provide a guaranteed range. Experience shows that a 10Ah battery can cover a distance ranging from 30 to 100 kilometers. The lower end of the range (30 kilometers) applies to a heavier rider consistently using the highest assistance level, only two gears, and riding at top speed. The upper end of the range (100 kilometers) is achievable by a lighter long-distance rider who stops infrequently, uses all gears, and sets the assistance level no higher than level 2, while also providing some pedaling power. Avalon does not guarantee specific distances but does guarantee the proper functioning and capacity of the battery. However, the warranty for capacity has limitations as it is considered a consumable part. On average, a battery can be recharged approximately 600 times. Both the age and the number of charge cycles have a negative impact on battery capacity. Under normal use and maintenance, the capacity decrease will average between 5% and 10% per year. However, very intensive use of the bike can result in a capacity decrease of 15% or more per year,

solely due to cell wear. If a bike, and therefore the battery, is not used for an extended period of time, it should be periodically connected to the charger. We recommend a maximum interval of 2 months. It is preferable to store the battery in a frost-free environment. Always make sure that the battery is not deeply discharged. If the battery is not charged for an extended period, it can become deeply discharged, and the charger may no longer be able to recharge it. This can result in battery failure. In some cases, a specialist may be able to reactivate the battery, but unfortunately, this is not always possible. Deep discharge is not covered by the warranty provided by Avalon to its customers. Avalon also cannot guarantee that a deeply discharged battery can be reactivated. If the battery can be reactivated, it is not known if there is any permanent damage to the cells. Therefore, it is crucial for the user to take good care of the battery. Avalon offers various battery capacities so that customers can choose the capacity that best suits their usage type.

Charging the battery:

- When charging the battery, make sure the bike is turned off.
- First, connect the charger to the battery and then plug it into the power outlet.
- Preferably, place the battery horizontally (as it is installed in the bike, definitely not upside down).
- Place the charger on a level surface.
- After charging, disconnect the connectors in reverse order.
- Charging time depends on the battery capacity, the level of discharge, and the charger being used.

Battery-related tips

- Ensure a fully charged battery before embarking on a long trip.
- Rough terrain, challenging surfaces, and hilly or mountainous roads result in significantly higher energy consumption.
- Frequent speed changes lead to increased energy consumption.
- The more weight on the bike, the higher the energy consumption.
- Proper maintenance, a clean bike, properly inflated tires, and regular lubrication (as specified later in this manual) contribute to lower energy consumption.
- Regularly check if the front and rear wheels spin freely when the brakes are not engaged. Adjust the brakes regularly.
- A lower assist setting provides less motor power and therefore requires less energy from the battery, resulting in greater range.
- As the battery becomes emptier, the voltage drops along with the available power. You may notice a decrease in motor power while riding as the battery level decreases.
- Warranties for a battery become void immediately and unconditionally if it is deeply discharged. Batteries, in general, do not tolerate deep discharge. Ensure that this NEVER happens. If you will not be using the bike for an extended period, never leave the battery in the bike without periodically charging it.
- Placing the charger and battery near heat sources is dangerous and strongly discouraged.
- The lifespan of the battery depends on how it is handled. Follow the instructions in this manual for charging. Additionally, never drop, shake, or strike the battery.
- Opening the battery and separating its internal segments is not allowed under warranty conditions. An opened battery is never covered by warranty.

Battery charger

- Your Avalon bike battery is a Lithium-Ion battery. This type of battery requires a specific type of charger. Always use a charger that is 100% the same type and brand. Using an incorrect charger for charging the Avalon battery can result in overheating, fire, or even an explosion. If your charger is defective or lost, contact your supplier for a proper replacement.
- Charge the battery when it is not in use. You can decide to charge the battery while it is in the bike or after removing it from the bike.During charging, the battery and the charger should not be placed near flammable substances. Always ensure that children cannot access the charger while it is charging the battery.
- The charging time of the battery depends on the remaining energy in the battery, the battery capacity, and the charger capacity. When the battery is fully charged, the LED will change from red (charging) to green (ready). Then, unplug the charger from the power outlet and then from the battery.
- Do not leave the charger connected to the battery longer than necessary. You can start a charging session in the evening and end it in the morning.
- It is normal for the battery and the charger to become warm or hot during the charging process. Ensure that the battery remains connected to the charger for at least 12 hours during the first 3 charging cycles.
- The charger has an LED indicator. If it is red, it means that it is supplying power to the battery and the battery is not fully charged yet. Once the battery is fully charged, the LED will change to green.
- Never attempt to open the casing of the charger yourself. If necessary, have it serviced by a qualified person.
- Avoid touching the battery's contact points with your hand or any tools or materials.
- Prevent any materials or liquids from entering the charger. If this happens, do not use the charger until it has been inspected by a qualified person.
- Ensure that the charger has sufficient cooling while it is charging. The charger should have a clearance of 200mm on all sides for proper cooling.
- The charger is intended for indoor use only.

E-Motive Display



- Model: DP C10.CAN BUS

- The housing is made of PC and acrylic and

- the buttons are made of silicone.

- The marking on the label looks as follows



Specifications

- Operating temperature: -20℃～45℃

- Storage temperature: -20℃～50℃

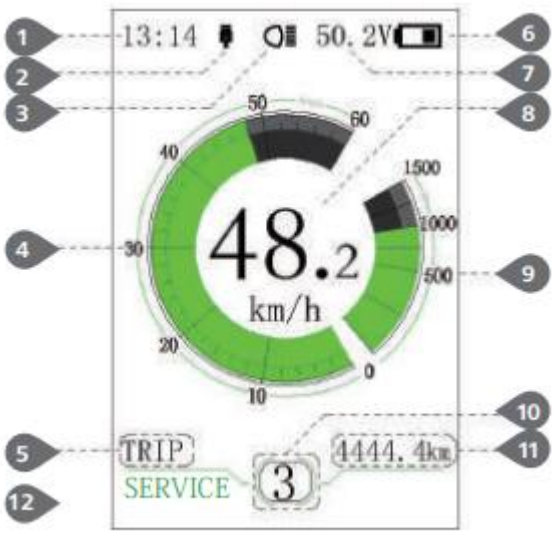
- Water resistant: IP65

- Humidity: 30%-70% RH

Functional Overview

- Speed display (including top speed and average speed, switching between km and miles).
- Battery capacity indicator.
- Automatic sensors explanation of the lighting system.
- Brightness setting for backlight.
- Indication of performance support.
- Motor output power and output current indicator.
- Kilometer stand (including single-trip distance, total distance and remaining distance).
- Walk assistance.
- Setting the support levels.
- Energy consumption indicator CALORIES (Note: If the display has this function).
- Display for the remaining distance. (Depends on your riding style)
- Setting password.- USB charging function

DISPLAY



1 Time

2 USB charging indicator displays the icon , if an external USB device is connected to the display.

3 The display shows this symbol, if the light is on.

4 Speed Graphics

5 Trip: Daily kilometers (TRIP) - Total kilometers (ODO) - Top speed (MAX) - Average speed (AVG) - Range (RANGE) - Energy Consumption (CALORIES(only with torque sensor fitted)) - Travel time (TIME).

6 Display of battery capacity in real time.

7 Voltage indicator in voltage or in percent.

8 Digital speed display.

9 Power indicator in watts / amperes.

10 Support level/ Walking assistance

11 Data: Display data, which corresponds to the current mode.

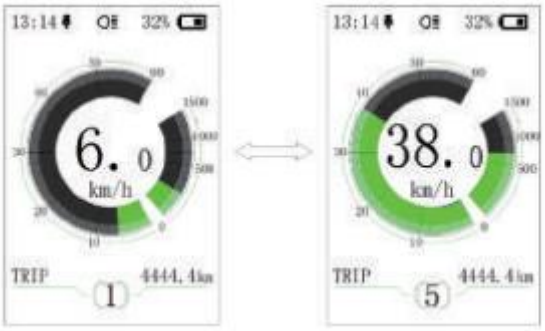
12 Service: Please see the service section

Normal operation

Switching the System ON/OFF Press “power” button and hold (>2S) on the display to turn on the system. Press and hold (>2S) again to turn off the system. If the "automatic shutdown time" is set to 5 minutes (it can be set with the "Auto Off" function, See "Auto Off"), the display will automatically be turned off within the desired time when it is not in operation. If the password function is enabled, you must enter the correct password to use the system.

Selection of support levels.

When the display is turned on, press the + or - (<0.5S) button to switch to the support level, the lowest level is 0, the highest level is 5. When the system is switched on, the support level starts in

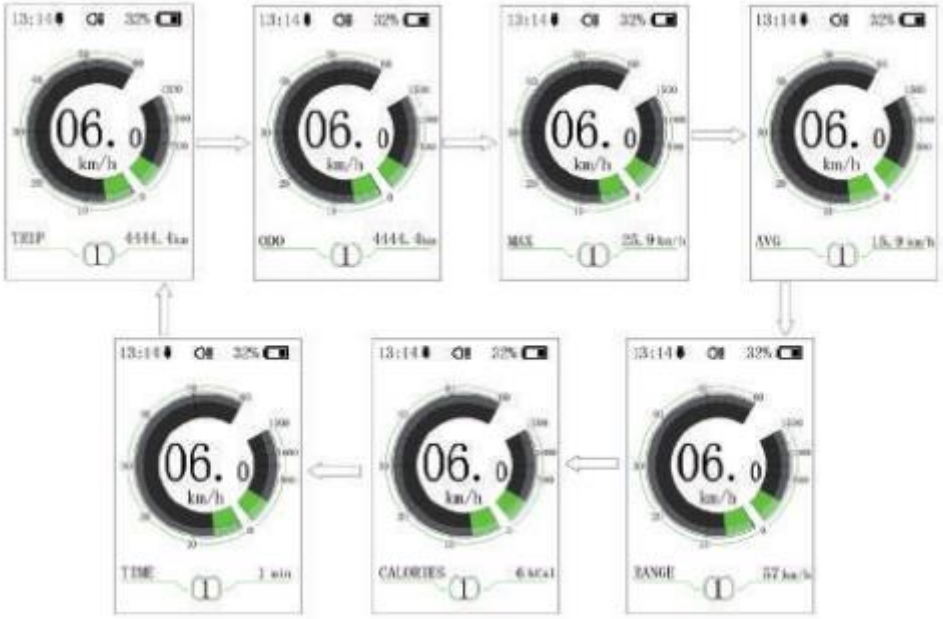


level 1. There is no support at level 0.

Mode selection

Briefly press the “i” (0.5s) button to see the different trip modes.

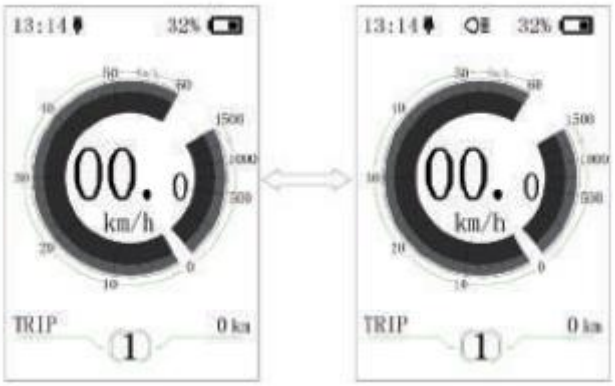
Trip: daily kilometers (TRIP) - total kilometers (ODO) - Maximum speed (MAX) - Average speed (AVG) - Range (RANGE) - Energy consumption (CALORIES(only with torque sensor fitted)) - Travel time (TIME).



Headlight/tail light

Hold the “headlight” button (>2S) button to activate the headlight and taillights.Hold the “headlight” (>2S) button again to turn off the headlight. The brightness of the backlight can be set in the display settings "Brightness". If the display /Pedelec is switched on in a dark environment, the display backlight/headlight will automatically be switched on. If the display backlight/headlight has been manually switched off, the automatic sensor function is deactivated. You can only turn on

the light manually. After switching on the system again.

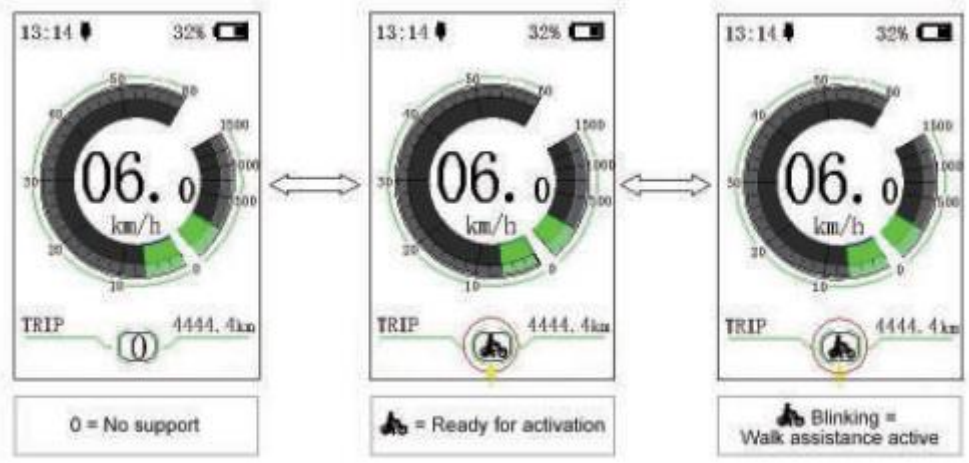


ECO/SPORT modus

Press and hold + the (<2S) Button, to change from ECO mode to Sport mode. (Depending on the version of the pedelec manufacturer)

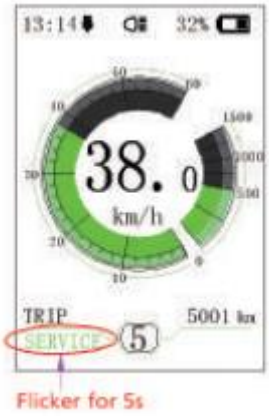
Walking aid

The Walk assistance can only be activated with a standing pedelec. Activation: Press the - button until bicycle symbol appears. Next hold down the - button whilst the bicycle symbol is displayed. Now the Walk assistance will activate. The bicycle symbol will flashes and the pedelec moves approx. 6 km/h. After releasing the button, the motor stops automatically and switches back to level 0.



Service

The display shows "Service" as soon as a certain number of kilometers or battery charges has been reached. With a mileage of more than 5000 km (or 100 charge cycles), the “Service" function is displayed on the display. Every 5000 km the display "SERVICE" is displayed every time. This function can be set in the display settings.



Settings

After the display is turned on, quickly press the “i” button twice, to access the “SETTINGS” menu. By pressing the + or - (<0.5S) button, you can select: Display Settings, Information or EXIT. Then press the “i” (<0.5S) button to confirm your selected option.

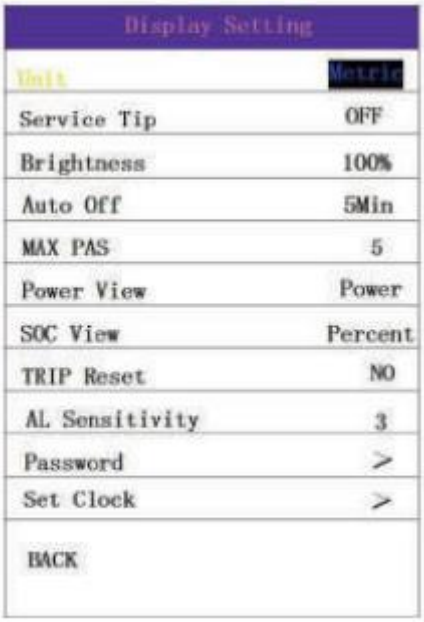
Or select "EXIT" and press the “i” (<0.5S) button to return to the main menu, or select "BACK" and press the “i” (<0.5S) button to return to the Settings interface.

If no button is pressed within 20 seconds, the display will automatically return to the main screen and no data will be saved. You can quickly press the (<0.5S) button twice at any time, to return to the main screen.



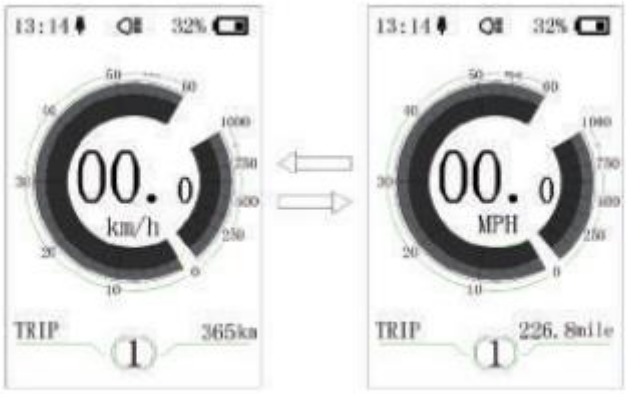
“Display setting”

Press the + or - (<0.5S) button to select Display Settings, and then briefly press the “i” (<0.5S) button to access the following selections.



“Unit” Selections in km/Miles

Press the + or - (<0.5S) button to highlight “Unit” in the Display settings menu, and then press the “i” (<0.5S) button to select. Then with the + or - button choose between “Metric” (kilometer) or “Imperial” (Miles). Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the "Display setting" interface



“Service Tip” Switching the notification on and off

Press the + or - (<0.5S) button to highlight “Service tip” in the Display settings menu, and then press “i” (<0.5S) to select. Then with the + or - button choose between “ON” or “OFF”. Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the "Display setting" interface.

“Brightness” Display brightness

Press the + or - (<0.5S) button to highlight “Brightness” in the Display settings menu. Then press “i” (<0.5S) to select. Then with the + or - button choose between

"100%" / "75%" / "50%" /" 30%"/"10%" .

Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the "Display setting" interface.

“Auto Off” Set Automatic system switch off time

Press the + or - (<0.5S) button to highlight “Auto Off” in the Display settings menu, and then press “i” (<0.5S) to select. Then with the + or - button choose between “OFF”, "9"/"8"/"7"/"6"/"5"/"4"/"3" /"2"/"1", (The numbers are measured in minutes). Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the "Display setting" interface.

“MAX PAS” Support level

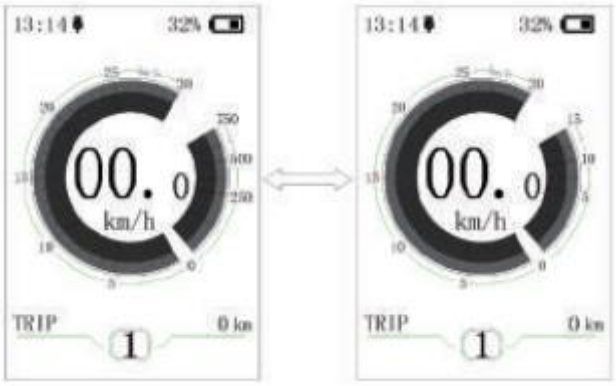
(Function not available with ECO/SPORT display) Press the + or - (<0.5S) button to highlight “Max Pass” in the Display settings menu, and then press “i” (<0.5S) to select. Then with the + or - button choose between “3/5/9” (the amount of support levels). Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the "Display setting"

“Default Mode” Set for ECO/Sport mode

Press the or (<0.5S) button to highlight “Default Mode” in the Display settings menu. Then press (<0.5S) to select. Then with the or button choose between “ECO” or “Sport”. Once you have chosen your desired selection, press the (<0.5S) button to save and exit to the "Display setting" interface.

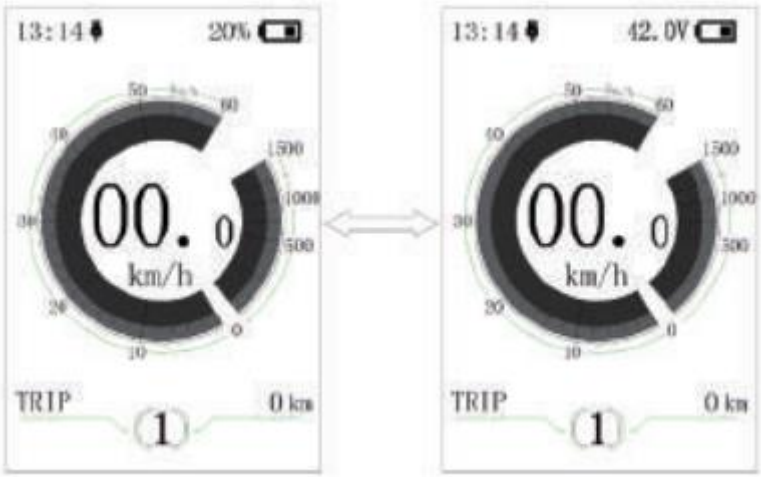
“Power View” Setting the power indicator

Press the + or - (<0.5S) button to highlight “Power View” in the Display settings menu, and then press “i” (<0.5S) to select. Then with the + or - button choose between “Power” or “Current”. Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the "Display setting" interface.



“SOC View” Battery view in volt percent

Press the + or - (<0.5S) button to highlight “SOC View” in the Display settings menu, and then press “i” (<0.5S) to select. Then with the or button choose between “percent” + or - “voltage “. Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the"Display setting"



“TRIP Reset” Reset mileage

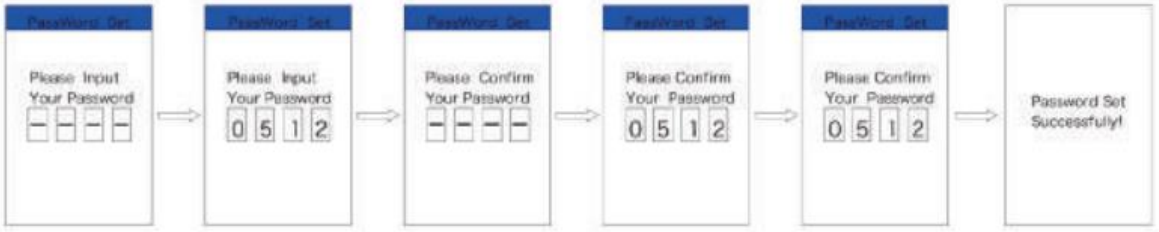
Press the + or - (<0.5S) button to highlight “TRIP Reset” in the Display settings menu, and then press “i” (<0.5S) to select. Then with the or button choose between “YES” or “NO”. Once you have chosen your desired selection, press the “i” (<0.5S) button to save and exit to the "Display setting"

“AL Sensitivity” Automatic headlight sensitivity

Press the + or - (<0.5S) button to highlight “AL-Sensetivity” in the Display settings menu, and then press “i” (<0.5S) to select. Then with the + or - button choose between "0" / " 1" / " 2"/ "3" / "4"/ "5"/ "OFF”. Once you have chosen your desired selection , press the “i” (<0.5S) button to save and exit to the "Display setting"

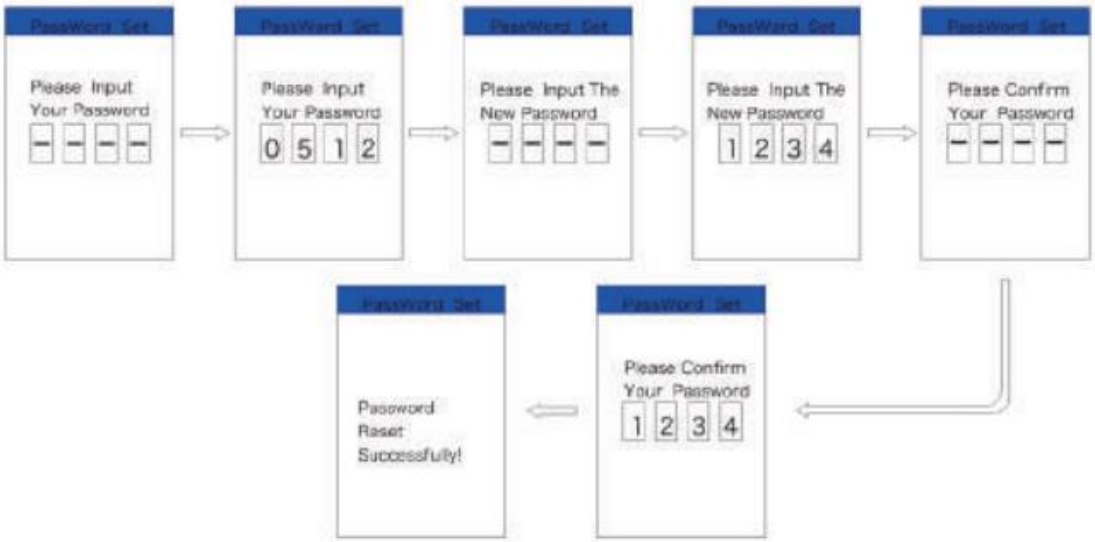
“Password”

Press the + or - (<0.5S) button to choose Password in the menu. Then by briefly pressing “i” (<0.5S) to enter the password selection. Now again with the + or - (<0.5S) buttons highlight “Start Password" and press the “i” (<0.5S) button to confirm. Now again using the + or - (<0.5S) Button choose between “ON” or “OFF” and press the “i” (<0.5S) button to confirm. Now you can input your 4-digit pin code. By using the + or - (<0.5S) button choose numbers between "0-9". By briefly pressing the “i” (<0.5S) button you can move on to the next number. After entering your desired 4-digit code, you must re-enter the 4-digits you chose, to ensure the code is correct. After selecting a password, the next time you turn on the system it will ask you to input your password. Press the + or - (<0.5S) button to select the numbers, Then press briefly “i” (<0.5S) to confirm. After entering the wrong number three times, the system switches off. If you have forgotten the password, please contact your retailer.



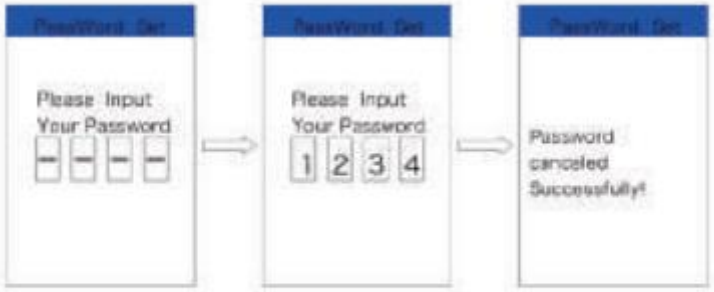
Changing the password:

Press the + or - (<0.5S) button to choose Password in the menu. Then by briefly pressing “i” (<0.5S) to enter the password section. Now again with the + or - (<0.5S) button highlight “Password set" and press the “i” (<0.5S) button to confirm. Now with the + or - (<0.5S) buttons and highlight “Reset Password” and with the “i” (<0.5S) button to confirm. By entering your old password once, followed by inputting the new password twice, then your password will be changed.



Deactivating the password:

To deactivate the password, use the + or - buttons to get to the menu point “Password” and press the “i” (<0.5S) button to highlight your selection. Press the + or - (<0.5S) button until is shows “OFF”. Then press “i” briefly (<0.5S) to select. Now enter your password, to deactivate it.



“Set Clock”

Press the or (<0.5S) Button to access the “Set Clock” menu. Then briefly press the (<0.5S) button to confirm selection. Now press the or (<0.5S) button and input the correct number (time) and press the (<0.5S) button to move to the next number. After entering the correct time, press the (<0.5S) button to confirm and save.

7.7.2 “Information”

Once the system is turned on, quickly Press the (<0.5S) button twice to access the "SETTINGS" menu. Press or (<0.5S) button to select "Information", and then press the (<0.5S) button to confirm your

selection. Or select the point "EXIT" by confirming with the (<0.5S) button to return to the main menu.

7.7.2.1 Wheel Size and Speed Limit

The "Wheel Size" and "Speed Limit" cannot be changed, this information is here to be viewed only.

7.7.2.2 Battery Information

Press the + or - (<0.5S) button to access the Battery Info menu, and then press the (<0.5S) button to select confirm. Now press the + or - (<0.5S) button and select "Back" or "Next Page". Then press the (<0.5S) button to confirm, now you can read the battery information.

Content Explanation

- TEMP — Current temperature in degrees (°C)
- TotalVolt — Voltage (V)
- Current — Discharge (A)
- Res Cap — Remaining Capacity (A/h)
- Full Cap Total — Capacity (A/h)
- RelChargeState — Default Loader Status (%)
- AbsChargeState — Instant charge (%)
- Cycle Times — Charging cycles (number)
- Max Uncharge Time — Maximum time in which no charge was made (Hr)
- Last Uncharge Time — Total Cell Number (individual)
- Cell Voltage 1 — Cell Voltage 1 (m/V)
- Cell Voltage 2 — Cell Voltage 2 (m/V)
- Cell Voltage n — Cell Voltage n (m/V)
- HW — Hardware Version
- SW — Software Version

NOTE: If no data is detected, "--" is displayed.

Controller Information

Press the + or - (<0.5S) button and select "CTRL Info", and then press the "i" (<0.5S) button to confirm. Now you can read the controller information. To Exit press the "i" (<0.5S) button, once "EXIT" is highlighted to return to the information settings.



Display Information

Press the + or - (<0.5S) button and select Display Info, then press the “i” (<0.5S) button to read the software and hardware data in the display. To Exit press the “i” (<0.5S) button, once “EXIT” is highlighted to return to the information settings.



Torque Information

Press the + or - (<0.5S) button and select “Torque info”, then press the “i” (<0.5S) button to read the software and hardware data in the display. To Exit press the “i” (<0.5S) button, once “EXIT” is highlighted to return to the information settings.



Error Code

Press the + or - (<0.5S) button and select “Error Code”, and then press the “i” (<0.5S) button to confirm. It shows error information for the last ten errors of the pedelec. Error code "00"means that there is no error. To return to the menu press the “i” (<0.5S) button, once "BACK" is highlighted to return to the information settings

Lighting:

All Avalon bikes have front and rear lights that are controlled through the display and powered by the main bike battery. The lighting operates through the central battery, which also powers the motor, so

no separate dynamo is used. Even if the main battery is too low to power the bike, the lights will still work. The lights, both front and rear, are LED lights and therefore energy-efficient. For your own safety, please ensure that the lights are always functioning properly.

Safety: You can choose to always turn on the lights for your safety. It is recommended to avoid riding in dark and wet conditions as much as possible.

For your own safety, we advise you to maintain a sufficient distance from any vehicles in front of you, ensure that you are visible, and consider wearing reflective clothing.

Parking your bike:

When parking your bike, turn off the power to protect the battery. You can do this via the display. If the bike is not used for 10 minutes, the display will automatically turn off the bike.

Your bike is equipped with an AXA Victory ART-approved lock. Always lock your bike to prevent theft. AXA also offers an optional plug-in cable that can be used to secure the bike to a lamppost or another bike. Ask your dealer about this.

Using the provided key, you can open the lock to remove the battery from the slot, for example, for storage during extended periods when you won't be using the bike or during cold weather. During use and storage in public spaces, the battery should be locked with this lock to prevent theft.

Avoid leaving your bike outside when it is raining or snowing to prevent moisture (condensation) from affecting the electronics.

If you have used your bike in wet conditions, we recommend storing, cleaning, and drying your bike indoors. The bike can withstand cold or very hot conditions, but the battery is more sensitive. In such circumstances, it is better to remove the battery from the bike and place it somewhere at room temperature.

Insurance:

We recommend taking out damage and/or anti-theft insurance for your bike. Your authorized dealer, where you purchased your Avalon bike, will certainly be able to assist you further.

WARNING

When you are ready for your first ride on the bike, be cautious and prepared, as the bike rides significantly faster than a regular bike due to the assistance of the motor.

Before using your bike for the first time, please read all the instructions in this manual carefully and ensure that the bike, handlebars, saddle, etc., are properly adjusted.

Take your first test ride in an area with plenty of space. Make sure you can gradually get used to riding with pedal assistance. This bike responds entirely differently than a conventional bike without pedal assistance. After a few rides, you will be completely accustomed to this luxurious way of cycling and can confidently take to the road.

- Make sure not to fully lock the brakes. If you need to brake, apply even pressure to both the front and rear brakes. The front brake has more power, but if it locks, it can be more dangerous as it may cause you to lose control of the bike and even fall.
- If you exceed the speed of 25 kilometers per hour, the controller will reduce the motor power. Legally, 25 kilometers per hour is the maximum speed at which the motor is allowed to provide assistance.

- When you stop cycling (keep the pedals still or no longer apply force to the pedals), the motor will stop driving after a short delay.
- On slippery, muddy, and uneven roads, we advise you to use the bike without pedal assistance.
- If malfunctions occur in the pedal assistance system or elsewhere in the electrical circuit, we recommend turning off the battery to prevent further damage.
- Our bikes are equipped with original Shimano components for the gears. You can switch between different modes according to your preference using the control unit on the right handlebar.
- The bike is intended for a single rider only. Make sure the bike is never overloaded beyond what has been indicated to prevent damage to the motor and battery.
- Always signal in advance when you are turning left or right during cycling or when you want to stop in an unexpected location.
- Maintain focus while cycling. Avoid cycling over potholes, loose gravel, oil, wet road markings, snow, drainage channels, and other obstacles.

Maintenance:

Your electric Avalon bike is designed for use by one person under normal road conditions. Using this bike in extreme conditions such as off-road use, jumping, and carrying heavy loads can seriously damage the bike and even cause injuries. Of course, the bike is not designed to withstand such stresses.

When cleaning the bike, NEVER use pressurized water. This water can enter sensitive areas and cause malfunctions in the electrical circuit as well as rust formation. Use a clean damp cloth to clean the bike. Do not use aggressive or acidic cleaning agents, as they can damage the bike's finish.

Try to avoid using the bike in rain and snow. If unavoidable, clean and dry the bike after use.

If the motor makes an unusual noise, it should be repaired or replaced. Avoid further use to prevent potential subsequent damage.

Ensure that the controller remains clean and dry during daily use. Avoid vibration and shocks to prevent damage to the controller.

WARNING:

Avoid excessive lubrication, especially on the brakes. If lubricants come into contact with the brakes, it will significantly increase the braking distance. This can cause injuries to riders and bystanders. An excessively lubricated chain can throw oil droplets onto undesirable areas such as pedals, brakes, rims, etc.

If there is oil on the rims, tires, brakes, and/or pedals, wash it off with hot water containing liquid soap. Once the oil is removed, rinse everything with clean water and then dry the bike.

Use light machine oil (W20) and follow the provided instructions for lubricating the various bike components.

Before each ride, it is important to perform the following safety checks:

Brakes:

- Check if the front and rear brakes are working properly.

- Ensure that the brake pads are properly engaging the rims (only applicable if your bike is equipped with rim brakes).
- Check the brake cables. They should move smoothly and should not be damaged.
- Check the brake levers, which should move smoothly and be securely fastened.

Wheels and Tires:

- Check the tire pressure. It should be close to the specifications indicated on the tire.
- Check if the tires have sufficient tread and are not damaged.
- Inspect the rims and ensure that they are free from contact with the brakes and do not wobble when spinning (only applicable if your bike is equipped with rim brakes).
- Check if all the spokes are properly tensioned and not damaged.
- Ensure that the wheel bolts are tightened securely. If your wheels are attached with quick releases, make sure they are properly tightened and in the closed position.

Handlebars:

- Check if the handlebars are in the correct position and securely tightened, so they do not move while riding.
- Ensure that the handlebars are aligned with the front wheel.
- Verify that the handlebar clamp is properly tightened.

Chain:

- Check if the chain is adequately lubricated, clean, and running smoothly.
- Extra attention is required in wet and dusty conditions. Regular inspection is recommended.

Bearings:

- Check if the bearings are adequately lubricated, move smoothly, and do not have any play or make rattling noises.
- Pay particular attention to the headset bearings, pedal bearings, bottom bracket bearings, and wheel bearings.

Bike Axle and Pedals:

- Check if the pedals are securely attached.
- Check if the bike axle is securely mounted and does not have any play.

Gears:

- Check if the gear mechanisms are properly adjusted and functioning as intended.
- Verify that the gear shift operation is smooth and accurate.
- Ensure that the gears, shifters, and cables are adequately lubricated.

Frame and Fork:

- Inspect the frame and fork for any damage or breakage.
- If there are any broken or bent parts, they should be replaced.

Accessories:

- Check if the lights are functioning properly.
- Ensure that all reflectors are visible.
- Verify that all other bike attachments are securely tightened and properly installed.
- Ensure that the rider wears a bicycle helmet.

Warranty:

The warranty is void if the user does not have the bike inspected and, if necessary, adjusted by a professional bike mechanic at least twice a year. Only factory defects are covered by the warranty, not damages or technical problems that cannot be attributed to the factory. The same applies to the battery.

www.Avalon-fietsen.nl

Serial number of your bike: _____

Serial number of your battery: _____

Date of purchase of your bike: _____

Information from your dealer: _____

ERROR CODE DEFINITIONS

The display can show the errors of a pedelec. If an error is detected, the wrench icon appears on the display and one of the following error codes are displayed.

Note: Read the description of the error code carefully. If you see the error code, restart the system first. Contact your dealer if the problem is not resolved.

Error code Explanation Troubleshooting

04 The throttle does not return to the correct position.

- Check that the throttle lever goes back into the correct position, if the situation does not improve, install a new throttle. (only if this function is present)

05 Throttle lever error.

- 1. Check the plug or cable of thethrottle lever if they are properly attached.
- 2. Disconnect the throttle lever, if the problem still occurs contact your vendor. (only if this feature is present)

07 Overvoltage protection.

- 1. Remove the battery.
- 2. Reinsert the battery.
- 3. Contact your salesperson if the problem persists.

08 Fault with the hall sensor signal in the motor.

- Contact your vendor.

09 Error with the motor phases.

- Contact your vendor.

10 The temperature in the motor has reached its maximum protection value reached.

- 1. Switch off the system and let the Pedelec cool down.
- 2. Contact your salesperson if the problem continues to occur.

11 The temperature sensor in the motor has an error.

- Contact your salesperson.

12 Error with the current sensor in the controller.

- Please contact your vendor.

13 Error with the temperature sensor in the battery.

- Contact your vendor.

14 The protection temperature in the controller has reached its maximum protection value.

- 1. Turn off the system and let the Pedelec cool down.
- 2. Contact your sales representative if the problem continues to occur.

15 Error with the temperature sensor in the controller.

- Contact your vendor.

21 Speed sensor error.

- 1. Restart the system.

- 2. Check that the magnet on the spoke is aligned with the speed sensor and that the distance is between 10 mm and 20 mm.

- 3. Check that the connector of the speed sensor is correctly connected.

- 4. Contact your dealer if the problem persists.

25 Torque signal error.

- 1. Check that all connections are properly connected.
- 2. Contact your vendor if the problem persists.

26 Speed signal from torque sensor has an error.

- 1. Check the speed sensor connector to make sure it is correctly connected.
- 2. Check the sensor for signs of damage.
- 3. Contact your salesperson if the problem persists.

27 Over current, current, from controller.

- Contact your vendor.

30 Communication problem.

- 1. Check that all connections are properlyconnected.
- 2. Contact your vendor if the problem continues to occur.

33 Brake signal has an error. (If brake sensors are mounted)

- 1. Check all connectors.
- 2. Contact your vendor if the problem persists.

35 Detection circuit for 15V has an error.

- Contact your vendor.

36 Detection circuit on control panel has an error.

- Contact your vendor.

37 WDT circuit is faulty.

- Contact your salesman.

41 Total battery voltage is too high.

- Contact your salesperson.

42 The total voltage of the battery is too low.

- Contact your salesperson.

43 Total battery cell power is too high.

- Contact your vendor.

44 The voltage of the single cell is too high.

- Contact your salesperson.

45 The temperature of the battery is too high.

- Contact your salesperson.

46 Battery temperature is too low.

- Contact your vendor.

47 Battery SOC is too high.

- Contact your vendor.

48 Battery SOC is too low.

- Contact your vendor.

61 Switch detection faulty.

- Contact your vendor. (only with this feature)

62 Electronic derailleur cannot release.

- Please contact your vendor. (only with this function)

71 Electronic lock is jammed.

- Contact your vendor. (only with this function)

81 Bluetooth module has an error.

- Contact your vendor. (only with this function)