

# MKB E-street

# USER MANUAL



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# IMPORTANT SAFETY INSTRUCTIONS

## Important!

Always read the safety instructions before use. If the precautionary measures described are NOT followed, the warranty is void. Store the invoice in minimum 5 years as it contain important information.



## Warnings

- To ensure that the charger and battery are handled in a safe way, and that users involved understand the danger thereby, charging of the battery must only be handled by persons aged 8 and up.
- Persons with reduced physical, sensory or mental abilities, lack of experience or knowledge must be supervised or trained in the use of the battery and charger.
- Do not let children play with the battery and/or charger. Children must be supervised if they perform any kind of cleaning and/or maintenance
- DO NOT attempt to recharge non-rechargeable batteries with the battery charger
- For safety reasons, if charging the battery indoors then the battery should be recharged in a room with a smoke detector alarm installed
- Do not place the charger or the battery near flammable materials. Ensure the battery and charger are placed on a fireproof surface before charging.
- Only charge the battery with the included charger
- Do not dismantle or damage the battery
- Only use the battery included
- Do not throw the battery into a fire
- Do not immerse the battery in water or any other liquid
- Never charge the battery at temperatures below 32°F (0°C) or above 113°F (45°C)
- Do not heat, short circuit, puncture or otherwise mistreat the battery
- Remove the battery from the bike when cleaning it.
- Do NOT change/manipulate the electrical system
- It is important that you submit your used batteries to the collection systems established within you country/region.





## ...warnings transportation

The following safety instructions and warnings cover the use of the Centurion E Street for transportation:

- Avoid clothing, shoelaces, or toys coming into contact with moving parts.
- The parking brake must be engaged when placing children in the cargo bike.
- The cargo bike is not suitable for transporting children under 2.5 years old.
- Children who cannot sit unaided should not be transported in the cargo bike.
- The total weight for the cargo bike must not be exceeded.
- Never leave your child unattended in the cargo bike.
- Children must always be securely fastened during transport and must not stand up in the cargo area.
- During the ride, children should stay within the cargo box.
- Passengers and the rider should always wear a bicycle helmet.
- A cargo bike is wider than a regular bike. Maintain a safe distance from oncoming traffic and be aware of a larger turning radius.
- The width of the cargo bike must not exceed 125 cm.
- Try to place the cargo as close to the rider as possible.
- The use of a child seat in the cargo bike is not approved by the manufacturer and is done at your own risk.
- It is not allowed to modify the cargo bike.
- In addition to the rider, up to 2 children are allowed in the cargo bike. See page 24 for transporting children.

## Parkingbrake



The parking brake should only be used when loading goods or children onto the cargo bike. The parking brake on the front wheels is activated/deactivated with the small lock lever.

## Product description

E-Street is the perfect choice if you want a robust electric cargo bike that can be used for various purposes, as the bike is suitable for riding on both flat and hilly terrain.

The frame is made of aluminum, providing a rigid and sturdy construction.

E-Street comes with the motor integrated into the center of the frame and the battery in the cargo box.

The buttons for the electronic system are designed and developed ergonomically, making them easy to operate without letting go of the handlebars.

### Note!

- Use of a bike trailer in combination with the e-bike is not allowed
- Always use original spare parts when replacing electrical components
- Do NOT clean the e-bike with a high-pressure cleaner
- If the electrical system is modified the warranty is void

## Class 1 description



Bicycles and E-bikes used on regular paved surface where the tires are intended to maintain ground contact at average speed.

**Intended average speed range:** 15 to 25 km/h

**Intended drop/jump height:** <15 cm

**Intended riding purpose:** Commuting and leisure with moderate effort

## Getting started

Install the battery in the e-bike and press the ON/OFF button to start the system.

Start pedaling and the motor will start assisting according to the assist level selected.

It is recommended to start in assist level 1.

The motor works as follows:

- A sensor measures pedal activity and the controller sends signal to the motor to start
- The motor is regulated with the assist function. When you drive uphill you can choose full power or low power when driving downhill.

The assist function will cut off when:

- The user stops pedaling
- When the bike exceeds 25 km/h.

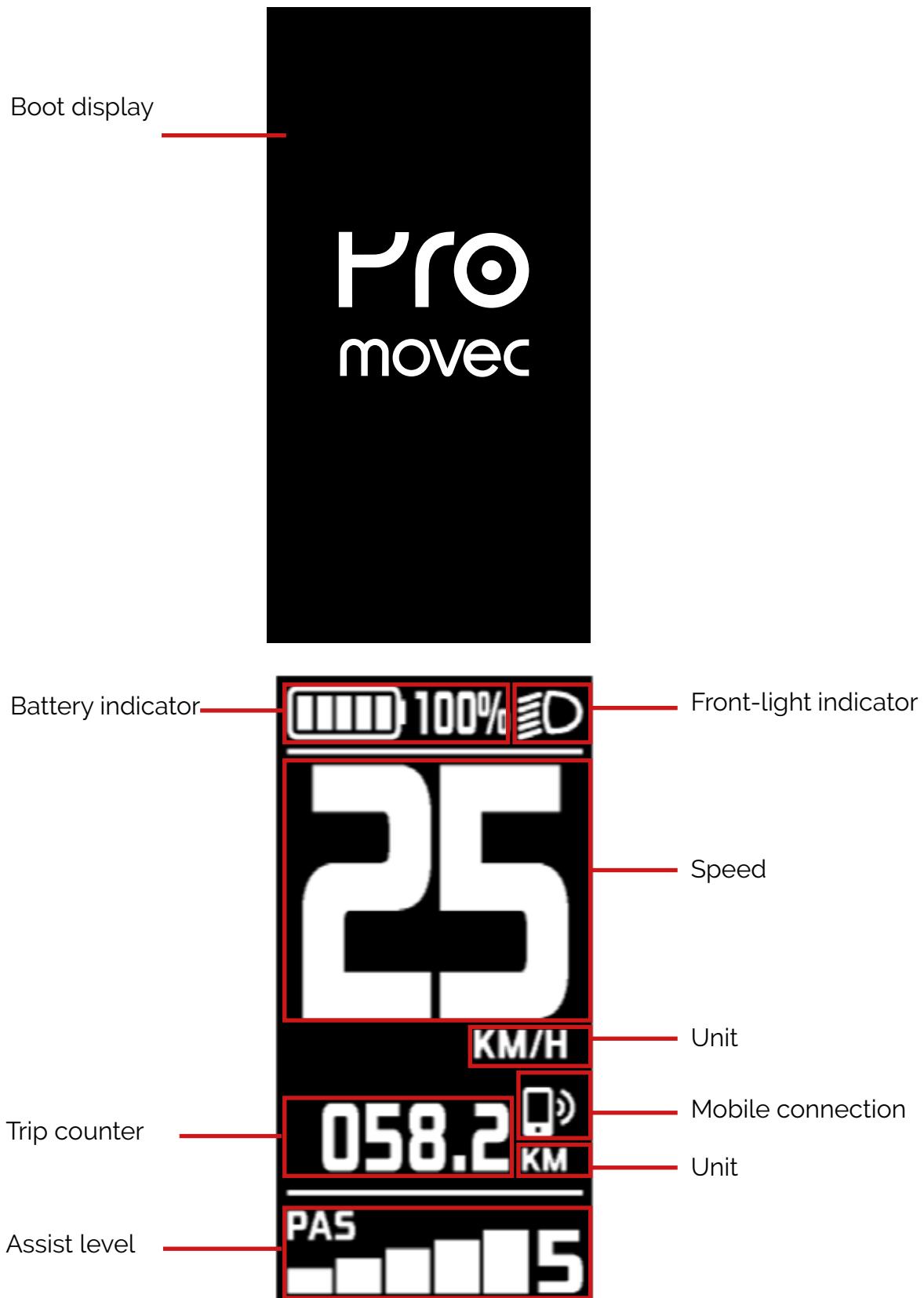
## Introduction to the display

The display is operable by four buttons from the left side of the handlebar.

- One battery bar indicates battery state of charge in percentage.
- Five levels indicate assist level.
- Speed and trip length is displayed in the middle
- More information is available by pressing the menu button
- Error codes are integrated in the display



## Display layout



## Assist functions

The display has 2 different assist functions:

- Assist levels (1-5), see picture top right. Select with up/down buttons.
- Walk assist function, press and hold the down button. In "Walk-assist" state the bike will drive 6 km/h without the use of pedals regardless of the assist-level setting. See the picture 2 the right in the middle.

This function is, for example, used on hills and other rough paths.

Note! "Walk-Assist" is not supported on e-bikes with center motors and coaster brake.



## Headlight and Bluetooth connection

When the display is "On", press and hold the "MENU" button to turn the head light On/Off. The icon for headlight is displayed in the top right of the display.

If the display is connected to mobile with Bluetooth, then the Mobile connection icon will be displayed.



## Display views

Standard



### Standard view:

When the speed is > 0 the display will return to standard view after a few seconds.

### View 1:

AVG - Average speed - Resettable

MAX - Maximum speed registered - Resettable

TRIP - Trip distance - Resettable



## DATA RESET

1. Turn on the display and wait 10 seconds
2. Go to View 1
3. Press and hold "MENU"
4. The "Clear data" window displays
5. Select "YES" or "NO"
6. Press and hold "Menu" to confirm



## View 2:

RANGE - Estimated range according to battery level

TOTAL - Total distance driven



## Battery indicator

Battery level displays with an icon and in percentage. When the display boots, the battery icon will flash as if it is full. After a couple of seconds, the correct battery level is displayed with an icon with the corresponding percentage.

The battery level displays real-time when riding. The battery level can display a different level when comparing driving uphill to downhill.

State of charge	Displayed with	Description
80–100%		Battery full, level 5
60% ≤		Level 4
40% ≤		Level 3
20% ≤		Level 2
10% ≤		Level 1
5% ≤		Level 0
0% ≤		Level 0, icon flashes 1 time during boot.

## Settings

Press and hold the "MENU" button, within 10 seconds after rebooting the display, to access the settings.

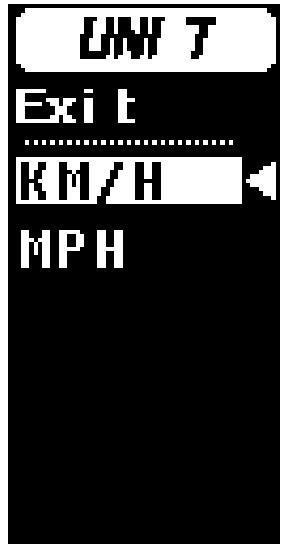
Navigate through the settings with "UP" or "DOWN" and select with "MENU"

EXIT: Return to Standard display with "MENU"



**UNIT** - Select either KM/H or MP H

EXIT: Select with "MENU" to return to "SETTINGS".



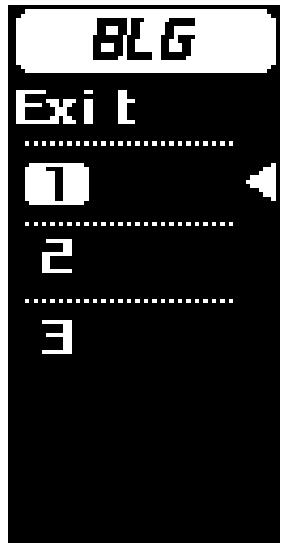
**BLG** - Adjust backlight in the display:

Value 1 - The display lights with 60% light

Value 2 - The display lights with 80% light

Value 3 - The display lights with 100% light

EXIT: Select with "MENU" to return to "SETTINGS".



AUTO OFF: Set the timer for AUTO OFF, select with "MENU".  
Select OFF if the display must stay ON

EXIT: Select with "MENU" to return to "SETTINGS"



**PSWORD** - When the value is set to ON, the user must set a password. The password must be entered each time the display is booted.

1. Use the arrows to select each digit
2. Confirm and continue to next digit with "MENU"
3. Press and hold "MENU", to confirm password

**Note! If you forget the password and cannot unlock the display, it requires a new display (not covered by the warranty).**

EXIT: Select with "MENU" to return to "SETTINGS"



**DSPIFO** - Hardware info for dealers and technicians

Press and hold "MENU" to return to "SETTINGS".



**BATIFO** - Information only - Displays battery state



**BATIFO**  
SOC  
80%  
Voltage  
36.8V  
Capacity  
5.2Ah  
Cycles  
189  
\*\*\*

Press and hold "MENU" to return to "SETTINGS".

**CTLIFO** - Hardware information, for dealers and technicians

Press and hold "MENU" to return to "SETTINGS".



**CTLIFO**  
HD Ver.  
V01.026  
FW Ver.  
V01.026  
SN code  
C01N1201  
42003

**AVDSET** - Only for dealers and technicians. Requires a password.



**AVDSET**  
Exit  
Wheel Di  
SpdLd <  
PAS  
Ssensor  
Psensor  
Dir ec  
\*\*\*

## TROUBLESHOOTING

Errors displays, with a code and a description in the display info area. An error code is a signal about an error in the electrical system. When an error displays, it must be remedied before the motor is able to start.



Check the table on this page for more information covering error codes.

ERROR CODE	INDICATES	SOLUTION
<b>1</b>	Motor error	Check motor connections Contact your retailer.
<b>2</b>	Controller error*	Contact your retailer.
<b>3</b>	Display error	Return the handle to start. Check display connection Contact your retailer.
<b>4</b>	Low battery voltage	Recharge the battery.
<b>5</b>	Error on the brake cut off sensor	Release the brake and restart the system Contact your retailer
<b>6</b>	Error on the speed sensor	Check wheel speed sensor connection Check magnet position and distance to sensor Contact your retailer.
<b>7</b>	Battery error*	Contact your retailer.
<b>8</b>	High current or overload*	Reduce the workload Restart the bike Contact your retailer.
<b>9</b>	Communication error*	Check display connection Contact your retailer.
<b>10</b>	Battery voltage too high.	Contact your retailer.
<b>11</b>	Display error*	Check display connection Contact your retailer.
<b>12</b>	Temperature error	Reduce the work load Contact your retailer.
<b>13</b>	Torque sensor error	Contact your retailer.

## **Extended features by mobile App**

When the phone is connected by Bluetooth, it is possible to access more real time features such as:

- Current speed.
- Trip counter.
- Assist type (eco/speed/distance).
- Map.
- Basic functions (timer, battery status, assist level etc.).

The following assist modes are available

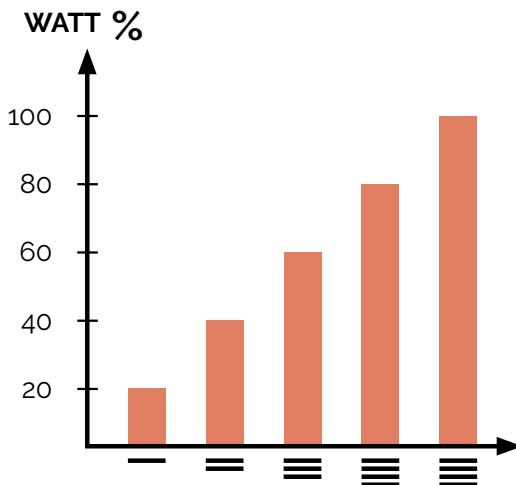
- Normal mode.
- Take me home (Set distance).

## Normal mode

At a given "Assist level" the system will supply a specified amount of driving force between 0-25 km/h.

### Usability:

- Variable speed
- Relaxed ride

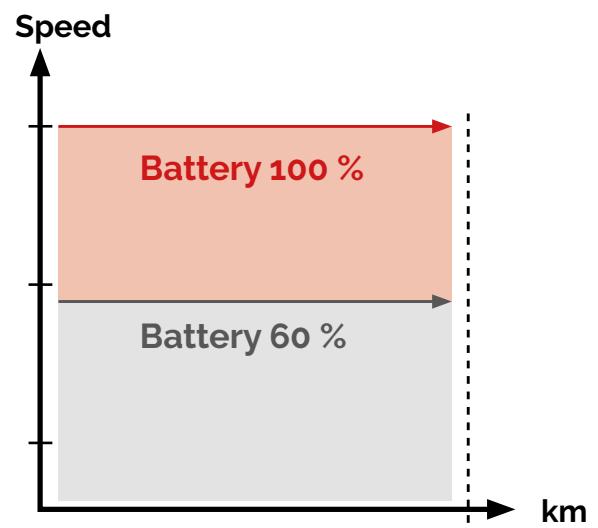


## Set distance

By setting a distance the system will manage power consumption and motor assistance for the entire ride ensuring the entered distance will be reached.

### Usability

When trip length exceeds battery capacity.



## Connecting new devices

Download the app "Promovec Connect+" to access the more functions.

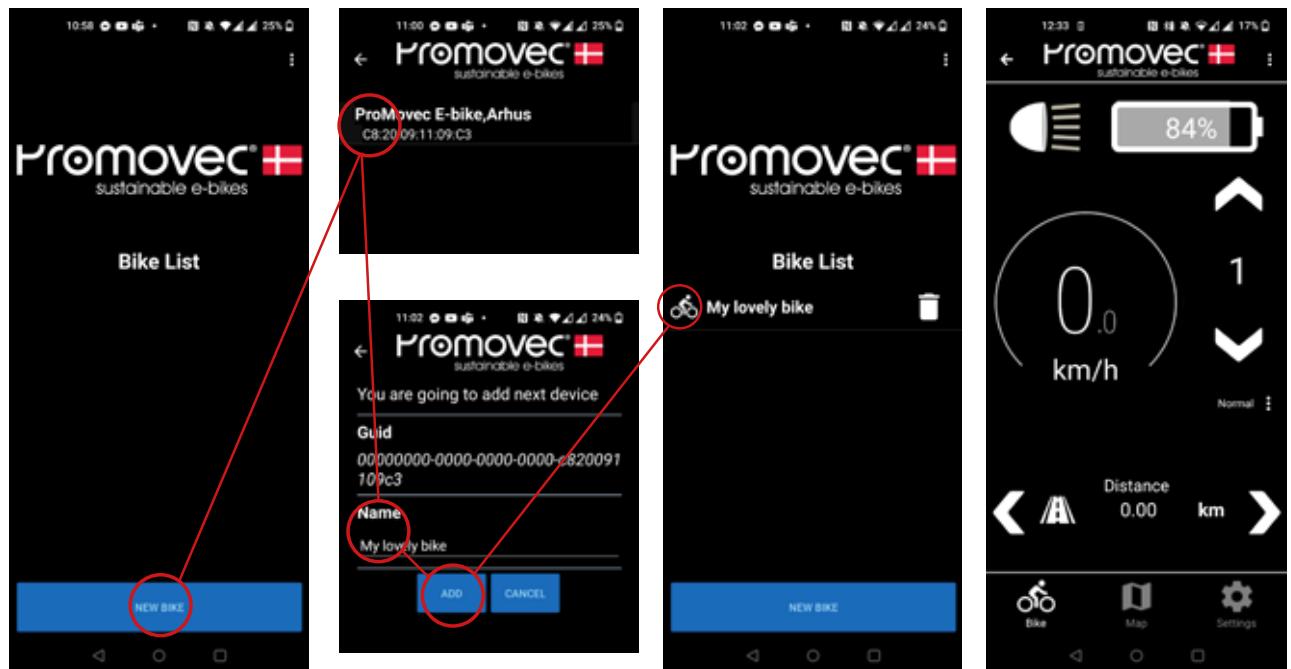
Links:

IOS: <https://apps.apple.com/gb/app/ebike-connect/id1458723615>

Android: <https://play.google.com/store/apps/details?id=com.ektos.e.bike.client>

On your mobile, turn on the Bluetooth, open for the app and the follow the onscreen instructions.

1. Turn on the display
2. Tap the "new bike" in the app and a list of available bikes will now appear on the screen.
3. Select your bike and complete the onscreen instructions. It is possible to rename the bike while adding it to the bike list.
4. Return to the home screen and select your newly added bike.
5. Your electric bike is connected!



**Note:** With the app you have the option to connect with multiple e-bikes and select the specific one you need before your departure.

## Troubleshooting in APP

If problems occur when using the app try the following list to troubleshoot:

1. Turn on Bluetooth in the mobile settings
2. Restart the app
3. Update Connect+ to the latest version
4. Make sure the Smartphone is not connected in both the app and in Bluetooth settings

Contact you dealer if this list does not solve the problem.

## YOUTUBE VIDEOS



### HOW TO PAIR YOUR DISPLAY:

<https://youtu.be/LZHgKPralBg>



### SETTING THE WHEEL SIZE:

<https://youtu.be/2EAdE9FVgxc>



### SETTINGS FOR BACKLIGHT AND CHANGE BETWEEN

### METRIC AND IMPERIAL UNIT OF LENGTH:

<https://youtu.be/TTIzjYcgAew>



### USING ASSIST LEVELS, BIKE MODES AND THE MAP:

<https://youtu.be/cZkBSOMojoU>

## Battery - Installation/Removal

### Installation:

1. The battery is installed on the left side of the cargo box. Ensure that the battery runs straight in the rail and push it all the way into the rail.
2. The battery will lock automatically when pushed all the way in.
3. Fold down the handle on the battery.
4. The key can then be removed.



### Note:

The battery can also be installed without the key.



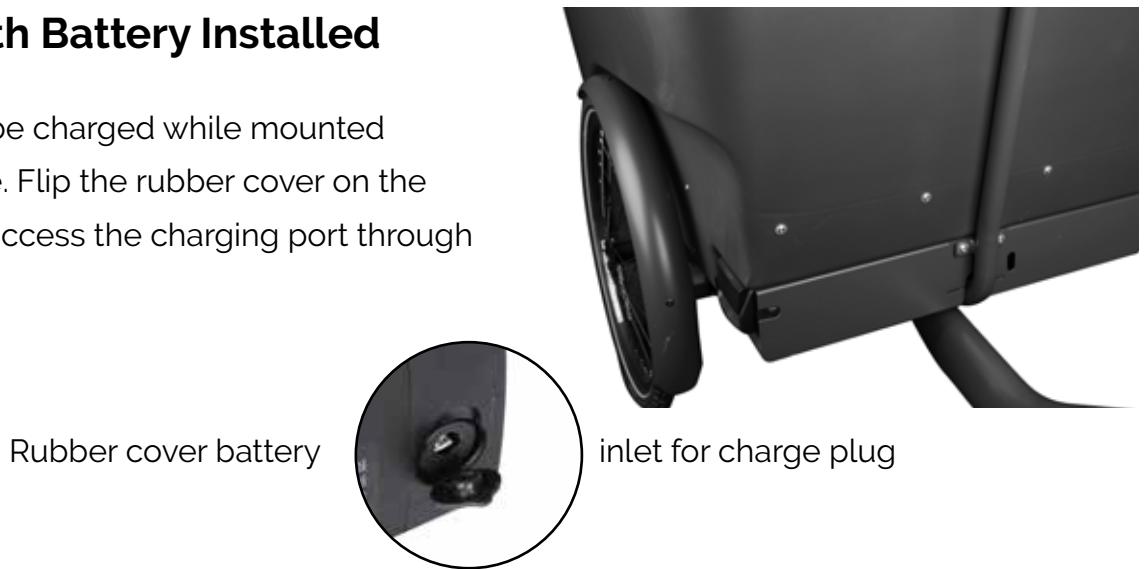
### Battery removal:

1. Turn the key slightly to the right, and the handle will flip out.
2. Pull on the handle to remove the battery.



## Charging with Battery Installed

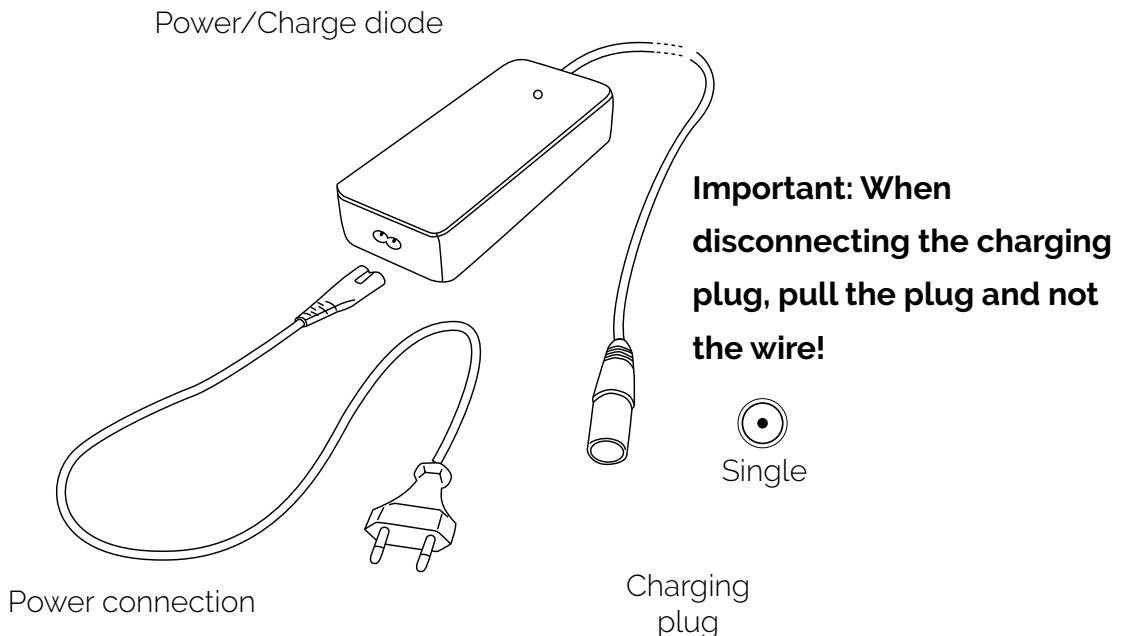
The battery can be charged while mounted on the cargo bike. Flip the rubber cover on the battery aside to access the charging port through the hole.



## Battery charger/charging overview

Charging must be done indoors or under cover outdoors to avoid direct rain as the charger is only splash proof. Never charge a battery if the temperature is below 32°F (0°C) or over 113°F (45°C).

**Note!** It is important that the order of the points for charging the battery is followed, regardless of whether the battery is mounted/removed from the bike.



## Connecting the charger

1. Plug the round charger plug into the battery charging socket on the battery.
2. Plug the charger plug into a power supply and turn the power on.

## Power/Charge diode

- If the battery charger is connected to a power supply, the diode lights up red (With no battery connected)
- When the battery is connected to the charger and the diode lights up red, the battery will be in the charging process.
- When the Power/Charge LED shows green, the battery has been recharged.
- Turn the power off before disconnecting the charger from the battery.

**Important: When disconnecting the charging plug, pull the plug and not the wire!**

## General

To keep the battery in good healthy condition, we recommend that you regularly charge the battery for a minimum of 24 hours after the green light appears. The reason being that this will balance out each cell, providing a healthy battery. After charging, cover the charge port with the dust cover attached to the battery.

When a battery has been fully recharged, the battery charger will enter a stand-by state and use very little power. It is recommended to unplug the charging socket and switch off the power when not in use.

## Battery capacity and use

The e-bike uses maintenance-free Li-ION batteries. The battery delivered in this kit is approximately 40-60% charged at the factory. Before using the battery, it must be fully charged with the supplied charger (Green LED light).

We recommend that the battery stays connected to the charger for 24 hours after the green light appears, as it provides a better balance between each cell in the battery. The optimal charging environment would be at 20°C or 68°F.

Frequent charging of the Li-ION battery can extend the battery life. Be aware that the capacity of the batteries decreases over time. Several factors, such as low temperatures, tire pressure, weather/road conditions, user weight and own physical effort has an influence on the range of the battery. As a user, you therefore have a significant influence on the range.

## Cargo Box

There are more than one option for using the cargo box.

### Usage:

- Flip the seat up to make room for larger items/goods.
- Use the cargo box for transporting 2 children and items/goods in the box and under the seat.



### Full utilization of the cargo box:

1. Fold the seat up and slide the locking pin aside on both sides of the board supporting the seat.
2. Remove the support.



### WARNING!

Do not use the seat without the support board.



## Transporting Children

The cargo bike is equipped with 2 sets of harnesses for securing children during transport. In addition to the rider, up to 2 children are allowed in the cargo bike.

The harnesses for securing children should not be tightened too much. The harnesses should be tightened in a way that allows for a couple of fingers to fit between the harness and the child.

Also, ensure that the harnesses are not twisted before securing the child.



Child definition:

Age: From 2.5 years old

Weight maximum: 22 kg

Height maximum: 117 cm



1. Place the two shoulder straps over the child's shoulders.



2. Connect the buckles on the shoulder straps.
3. Insert the shoulder straps into the buckle on the crotch strap. You will feel a click when the buckle locks.



4. Check that the harnesses are securely fastened by pulling them.



## Winter storage

If the e-bike is set aside for storage (more than one month), we recommend recharging the battery once a month for 24 hours to keep the battery in good condition.

The batteries should always be fully charged before storage since they cannot afford to stand discharged completely or partially for a long time. We recommend storing the battery indoors when the temperature outside drops below 32°C (0°C).

## Disposal of Parts

Over time, parts of the e-bike will wear out. It is recommended to sort and dispose of worn-out parts according to the guidelines at the local recycling center. Sort and dispose of worn-out parts in the following manner:

- Hazardous waste: Batteries\*
- Electronics: Motor, display, cables, and lights
- Plastic: Grips, wheel covers, and chain guard
- Small combustible items: Bicycle tires
- Rest of the bike: Metal

By doing so, we support the efficient management of our shared natural resources and the proper disposal of toxic waste and pollutants.

Batteries are marked with a crossed-out trash bin. It symbolizes that used batteries should not be disposed of with unsorted household waste.

Batteries should be collected separately as they contain substances that can be harmful to human health and the environment.



## **WARRANTY**

Showing defects in material that existed at delivery or manufacture within two years after delivery to the buyer, the H.F.Christiansen A/S or its designated workshop repair the defect free of charge repair costs, unless the error may be excluded from the guarantee according to:

The bond two correct errors as described in the preceding section free of charge except:

- error caused by external influence, including on the paint
- error caused by spare parts that do not match the quality of original spare parts,
- error which have arisen or made worse due to lack of maintenance and failure to comply with the inspection requirements of the delivered or poor work done by an unauthorized agent,
- failure or damage that the buyer within a reasonable time has announced the H.F.Christiansen A/S, or
- failure or damage caused by the purchaser have been aware of, but the buyer within a reasonable time has chosen to remedy at H.F.Christiansen A/S.

The buyer has if repair is carried out within a reasonable time, not entitled to compensation proportionate reduction, to make the repeal or require replacement. Buyer deliver and collect on their own account the delivery of the H.F.Christiansen A/S specified repair place within the country.

The burden of proving that there is a fault in material or workmanship, the buyer. The same applies to prove that the fault existed on delivery

In the first 6 months of delivery is supposed a perceived error, however, to have been present at the delivery.

Repair costs related to errors caused by the purchaser did not deal with the purchased properly, including failing to carry out such maintenance as circumstances and the operating manual and other documents released to the buyer not later than when the delivery requires borne by the buyer.

The same applies to repair costs as a result of natural wear and tear, damage caused by overloads, as well as damage caused by structural alterations of the delivered goods.

The buyer's claim under this warranty must be submitted to the H.F.Christiansen A/S within a reasonable time after an error or usual care should be observed, and by the end of the two-year warranty period, since the guarantee and H.F.Christiansen A/Ss liability for defects in the opposite can no longer be relied on.

H.F.Christiansen A/S can only be held liable for losses caused by defects in the delivery, if the buyer proves that the loss is a foreseeable result of maladministration on the part of the H.F.Christiansen A/S or anyone H.F.Christiansen A/S responsible.

H.F.Christiansen A/S is not liable for indirect damages and consequential damages, unless the buyer can demonstrate that:

- H.F.Christiansen A/S or anyone H.F.Christiansen A/S responsible, has acted contrary to common decency
- H.F.Christiansen A/S or anyone H.F.Christiansen A/S responsible, has given the buyer misleading information H.F.Christiansen A/S or anyone H.F.Christiansen A/S responsible, did not add to deem correct
- H.F.Christiansen A/S or anyone H.F.Christiansen A/S responsible, has neglected to give the buyer information about a defect which H.F.Christiansen A/S or anyone H.F.Christiansen A/S responsible, knew or reasonably should know, it delivered misses properties that must be regarded as warranted, or lack the purchase is the conclusion is caused by the H.F.Christiansen A/S or anyone H.F.Christiansen A/S responsible, through negligence.

It particularly highlighted the wear parts and the like on the product such as tires and tubes are not covered by the warranty, unless these parts have been exposed to normal wear as a direct result of a manufacturing defect, the buyer should not have been aware of.

It is highlighted expressly that the batteries capacity and thus the range decreases with time and use intensity.

## **Maintenance**

It is recommended to clean the bike and lubricate moving parts at regular intervals. Check the bike handbook included in the box.

Be aware, that wearing parts such as tire, chain, brake pads are replaced as needed. If the line on the rim is no longer visible, then the wheel/rim must be replaced.

The electrical system of an e-bike does not require much maintenance. It is recommended that as part of the annual service check of the e-bike, a professional cleans and lubricates the electrical connections.

In order to maintain and preserve electric bike's condition, we recommend an inspection two times a year, however, at least one a year by a professional workshop.

Do NOT use a high-pressure cleaner when cleaning the bike as it may damage the electrical components.

## Road Traffic Law

The electric bicycle is part of the road traffic laws, such as regular bicycles. According to the "Order on traffic law" under section § 49. You can read more about this.

You are therefore considered a cyclist in traffic with the same driving conditions. It is recommended to wear helmets and having the right lights equipped for your bicycle.

## Insurance

An electric bike for insurance purposes as an ordinary bicycle, it is usually covered by a standard household insurance. However, we recommend that you talk to your insurance agent about the technical aspects of E-bike.

## Frame number

The electric bicycle is provided with a frame number. It is located under the crank the last letter in the number indicates the production year.

If the e-bike is has a QR-code it is possible to read the frame number and item number with a QR code reader.

## Battery Specifications

The bike uses a Carrier 7 battery. Please refer to the capacity and other technical details on the battery. For purchasing a new battery/charger, please contact the nearest dealer, as there are several different types and sizes available.



## CE Declaration of Conformity

This declaration of conformity is issued under the manufacturer's responsibility. In the event that the product is modified without coordination with PM A/S, this declaration of conformity is no longer valid.

### The product is tested and approved according to:

- Directive 2006/42/EU
- Directive 2014/30/EU
- Directive 2011/65/EU



## Technical data

### E-Street

**Gear:** .....Enviolo, internal gear

**Motor:** .....250 w center motor, integrated torque sensor

**Controller:** .....Integrated in the motor

**Mode:** ..... PAS (Pedal Assist System) (EU standard EN EPAC 15194:2017)

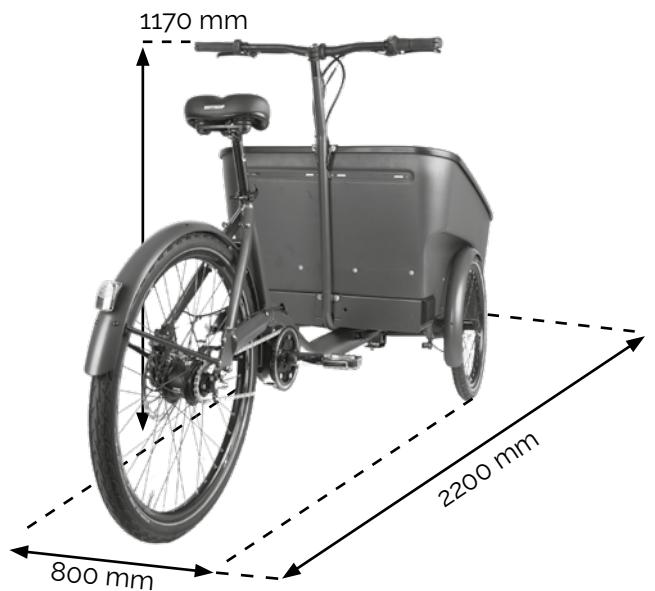
**Battery type:** .....Carrier 7

**Total mass incl. 4 kg battery:** 59.5 kg

**User mass:** .....Max. 100 kg.

**Cargo box max load:** .....Max 100 kg.

**Total mass max:** .....259.5 kg



# Centurion

# SERVICE LOG

In order to maintain and preserve electric bike's condition, we recommend an inspection two times a year or at least once a year. The inspection should include a check of brakes, tires, steering and cables. A service check can be ordered at your dealer.

<i>Date and stamp</i>	<i>Date and stamp</i>
<i>Date and stamp</i>	<i>Date and stamp</i>
<i>Date and stamp</i>	<i>Date and stamp</i>
<i>Date and stamp</i>	<i>Date and stamp</i>