

# Brugermanual til Nihola COMBO – Version 2024/A

**VIGTIGT. Denne bruger manual skal læses grundigt af alle fremtidige brugere inden brug af din nye Nihola COMBO – Cykel.**



Tillykke med din nye Nihola COMBO. Vi håber at du vil få mange gode oplevelser på din nye Nihola Cykel. Vi beder dig læse denne manual grundigt igennem inden du benytter din nye Nihola COMBO.

Er du i tvivl om noget, så ret henvendelse til Nihola Cykler ([nihola@nihola.dk](mailto:nihola@nihola.dk)) eller til din Nihola forhandler inden du anvender Nihola COMBO.

**Inden du benytter NIHOLA COMBO i offentlig trafik og med passagerer** skal du øve dig og blive fortrolig med cyklen et sted, hvor der ikke er trafik, hvor vejen er jævn og uden fald eller stigninger. Skal du benytte cyklen til person eller vare transport, skal du dernæst ligeledes øve dig med denne vægt, inden du

benytter cyklen i offentlig trafik. Bliv fortrolig med bremseser, gear, funktion af el-systemet og hvordan cyklen reagerer under kørsel, inden du benytter cyklen på offentlig trafikeret vej, både med og uden vægt. Føler du dig ikke fuldt fortrolig og sikker under kørsel bør du ikke benytte den i offentlig trafik og med passagerer.

Er der flere brugere af Nihola Cyklen, skal denne manual ligeledes læses af disse brugere - inden brug af cyklen. Det er ejeren af cyklen, der er ansvarlig for dette.

Når du modtager din nye Nihola COMBO, anbefaler vi at du gemmer din købskvittering et sted hvor du printet eller digitalt let kan finde den igen efter mange år. Du skal bruge denne originale kvittering med købspris og stelnummer ved et evt. gensalg, reklamation eller hvis den skulle blive stjålet. Henvender du dig til Nihola Cykler, oplys venligst / medsend kopi af faktura og servicehistorik.

Fremgår dit stelnummer ikke på købs fakturaen, skal du henvende dig til din forhandler, så dette noteres og arkiveres korrekt.

Stelnummeret finder du øverst på stel sadelrøret (øverst på stellet hvor sadelpinden er monteret i stellet).

### **Hver gang og inden du benytter Nihola Cyklen skal du sikre dig:**

- At bremseserne er fuldt funktionsdygtige.
- At dæktryk er korrekt (4,5 bar / 65 PSI er anbefalet tryk for både for og bagdæk).
- At seler og spænder til persontransport er funktionsdygtige og justeret korrekt.
- At der ikke er mislyde eller slør fra gear, hjul, styr, sadelpind, sadel eller styresystemet.

### **Brug af NIHOLA COMBO:**

**Nøgler.** Når du modtager cyklen start med at adskille nøglerne og lave reservesæt. Opbevar dine reservenøgler et sted hvor du let kan finde dem. Mister du et sæt så få fremstillet et nyt ekstra sæt med det samme hos din lokale låsesmed. Det kan være kompliceret og meget dyrt at få fremskaffet nye nøgler hvis begge sæt er bortkommet.

**Bagagebærer og isætning af batteri.** Bagagebærer må ikke benyttes til person eller vare transport. Når batteriet isættes, så bør det gøres forsigtigt. Hvis du skubber batteriet for kraftigt i, kan strømforbindelsen mellem batteriet og bagagebæreren blive beskadiget.

**Parkeringsbremse.** Aktivering: Træk bremsegrebet ind og skub det lille greb på bremsen ind – hold det lille greb inde og slip dernæst bremsegrebet. Vigtigt: **Parkeringsbremsen må max benyttes i 30 minutter** da det kan medføre skader på bremsesystemet at benytte parkeringsbremsen i længere tid.

**Godkendt lås.** Vedligeholdelse: For at låsen fungerer optimalt bør den smøres regelmæssigt. Om vinteren mindst en gang om måneden. Det anbefales at bruge et ikke fedtende og syrefri smøremiddel. Når den godkendte lås benyttes, skal du være opmærksom på egerne i baghjulet kan blive bukket hvis cyklen bevæges når den er låst. Bliver blot to eger skadet og cyklen efterfølgende benyttes skal alle egerne i hjulet udskiftes, da de alle vil være svækkede i styrken efterfølgende. Udskiftes efterfølgende kun de to eger i hjulet, vil der som regel hurtigt springe flere eger i hjulet efterfølgende.

**Bremseser.** Hvis bremseserne ikke er fuldt funktionsdygtige, må NIHOLA COMBO ikke benyttes.

**Kalechen** kan vaskes med lunkent sulfvand og med en blød børste. Kalechen må ikke vaskes i vaskemaskine. Afhængig af solskinstimer vil kalechen falme med tiden. Buk og fold ikke ruderne. Ved frostvejr skal man behandle ruden ekstra forsigtigt pga. plasten bliver hård og kan sprække ved foldninger og slag. Du kan beskytte og forlænge kalechens levetid ved at imprægnerer den med imprægneringsspray til

stof. Kalechen og bøjlerne kan aftages uden brug af værktøj. Kalechen kan ligges tilbage ved at fjerne de to forreste elastik stropper.

**Sikkerhed – Førers udsyn.** Hvis kalechen er for høj til at føreren af cyklen har frit udsyn til trafikken, skal kalechen afmonteres inden brug af cyklen. Dette gøres uden brug af værktøj.

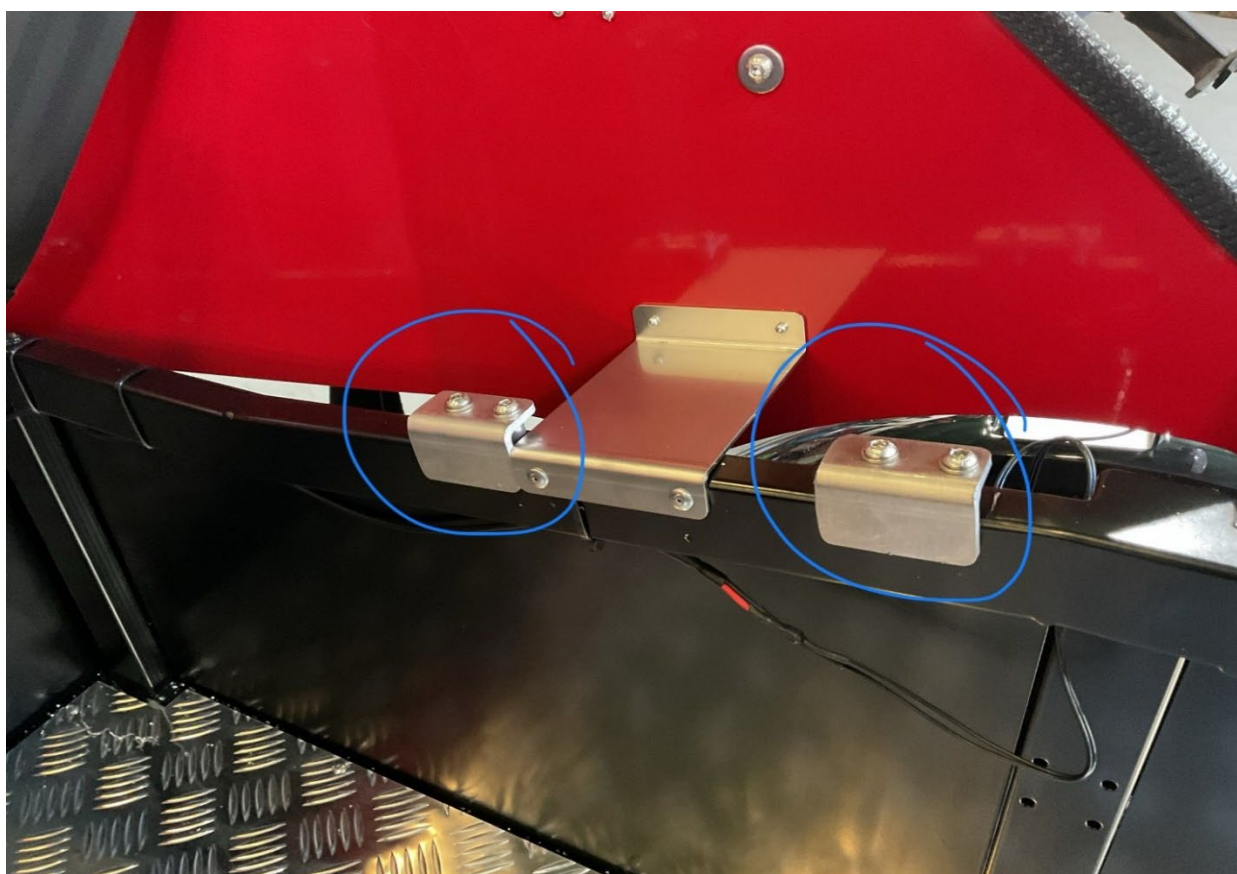
**Front støtteben.** Støttebenet udløses automatisk når rampen lukkes ned og trækkes ligeledes op når rampen lukkes. Husk altid at benytte låse splitterne til låsehængslerne monteret på stellet ved frontrampen under kørsel.

**Gearskifte.** Nihola COMBO er normalt monteret med 5 indvendige SHIMANO gear og man må ikke træde i pedalerne ved gearskifte.

**Justering af gear** Gearkablet kan justeres ved skiftegrebet på styret. Sæt geargrebet i 3. gear. På bagnavet skal de to hvide bevægelige prikker stå lige ud for hinanden. Afstanden mellem de hvide prikker kan justeres ved at justere kabelskruen ved geargreb indløbet på styret.

**Sikkerhed – Passagerer og Kørestol.** Kørestol skal være låst og bruger skal altid være spændt fast under kørsel med den medfølgende hofte sikkerhedssele. Selen skal være korrekt justeret og fastspændt rundt om livet på kørestolsbrugeren. Kørestolen skal ligeledes være låst med kørestolens egen parkeringsbremse under kørsel. Passagerer der fragtes på bænken, skal ligeledes være fastspændt med den medfølgende hoftesele.

**Bænken.** Bænken kan afmonteres uden brug af værktøj. Når bænken monteres, skal bænken fikseres i de 4 fikseringsstykker monteret på stellet (mærket 2 x blå på nedenstående billede). Se bund af bænken inden montage. Bagstykket af bænken skal hvile på toppen af stellet (mærket 1 x blå på næste side 4).





**Vinterkørsel / Frost.** I løbet af vinteren skal du vaske din cykel og smøre kæden ofte. Det våde vejr og vejsalt er hård ved din cykel. Vasker du ikke saltet bort tager din cykel skade. Benyt varmt vand og en børste til at vaske og fjerne saltet. Kalecheruden er følsom overfor revner ved hård frost, så vær forsigtig med slag og foldninger af ruden i frostgrader. Kabler kan fryse fast, så efterlad cyklen i et lavt gear, hvis det bliver streng frost og din cykel ikke opbevares frostfrit. Det er en god ide at få udført et service lige inden vinterperioden, hvor dine kabler bliver smurt og efterset.

**Det vigtigste vedr. Bafang elsystemet.** Inden første brug skal batteriet lades fuld op. Når batteriet isættes, så bør det gøres forsigtigt. Hvis du skubber batteriet for kraftigt i, kan strømstikket på bagagebæreren blive beskadiget. Generelt har alle el cykler bedst af at stå tørt. Mange brugere har dog ikke mulighed for det. Brug evt. en cykelgarage ved længere tids parkering og om natten, hvis ikke du har mulighed for at parkere din Nihola COMBO under et halvtag, i en garage eller lign. Og tag altid batteriet med dig indenfor, når det er muligt. Alle batterier taber kapacitet med tiden og skal udskiftes. De lave temperaturer vi oplever i vinterhalvåret, vil nedsætte batteriets rækkevidde. Batteriet skal minimum oplades hver 3. måned.

**Elmotor, Display, Batteri og fejlfinding:**

- Elmotor. Se side 8-11 i denne manual.
- Display. Se side 12-24 i denne manual.
- Batteri. Se side 28-35 i denne manual.
- Fejlfinding / Fejlkoder. Se side 25-27 i denne manual.

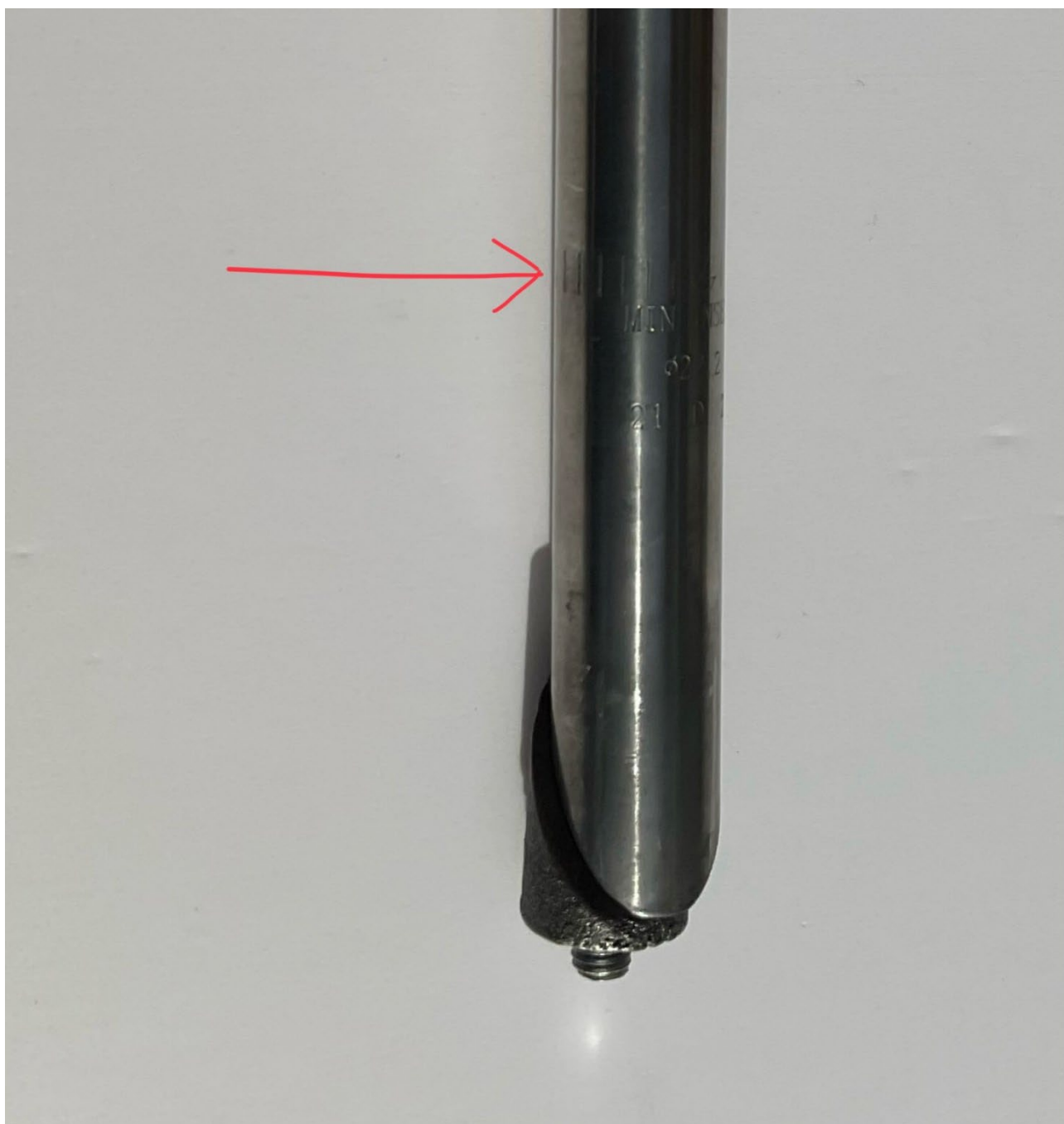
**Service.** Overhold venligst det første 3 måneders service og få en kvittering hos din forhandler herfor. Herefter anbefaler vi service for hver 2000 km kørt eller minimum hvert år. Det er en god ide at få udført

et årligt service lige inden vinterperioden, hvor dine kabler også bliver smurt og efterset. Vi anbefaler du gemmer servicehistorikken på cyklen. Udover almindelig velkendt service skal forhandleren efterspænde eger i alle tre hjul, efterspænde de bolte og møtrikker der spænder bagstellet fast til stellet (4 stk. 8 mm møtrik, 2 stk. 6 mm bolte og 2 stk. 10 mm bolte med tilhørende 10 mm møtrikker). Hvis en enkelt eller flere eger bliver bukket eller beskadiget, skal du straks stoppe med at benytte cyklen, da alt efterfølgende brug vil belaste og beskadige de øvrige eger meget hurtigt og alle eger dermed skal skiftes.

**Sadelpind.** Mærket for maximal højde må ikke være synligt. Se nedenstående billede. Er det nødvendigt med en sadelpind der er højere eller lavere er yderdiametere 25,4 mm.



**Frepind (moneret fra styrrør til styr).** Mærket for maximal højde må ikke være synligt. Se nedenstående billede. Er det nødvendigt med en frepind der er højere, lavere eller har en anden udformning er yderdiameteren 22,2 mm.



**Frempind (monteret fra styrrør til styr).** Bolten mærket med rødt på nedenstående billede må ikke tilspændes med mere end 28 Nm. Overspænding kan medføre skader på styrforbindelsen.



**Garanti.** Din Nihola Cykel er omfattet af garantien jvf. den gældende danske købelov. Gem alle dine kvitteringer fra service. Det første 3 måneders service skal overholdes og er vigtigt i forhold til garantien. Bed derfor om en kvittering for dette første service, som du senere kan fremvise ved en evt. reklamation. Vasker du din cykel om vinteren, lader være med at overlæsse den og får lavet regelmæssig service vil den holde mange år.

**Max. anbefalet total vægt for Nihola COMBO er 300 kg.** Nihola COMBO vejer fuldt udstyret med bænke, kalesche, motor og batteri 90 kg. Det betyder at anbefalet max. lasteevne for fører, passagerer og evt. anden last samlet må udgøre 210 kg. Overlæsning af Nihola-cyklen kan give skader på stellet eller hjulene. Tjek ofte stellet for revner i svejsninger og tjek også hjuleger ofte. Jo før en evt. skade opdages des nemmere er den at reparere. **Vigtigt:** overlæsning fører til forøget bremselængde og kan dermed medføre person skade ved kørsel.

Vi håber du bliver glad for din Nihola COMBO og den vil give dig mange gode oplevelser.

God fornøjelse og kørsel forsigtigt.

Med venlig hilsen NIHOLA CYKLER.

# 6 USER MANUAL FOR M410 (MM G333.250.C)

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# 6.1 INTRODUCTION

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- **Product Model**

MM G333.250.C

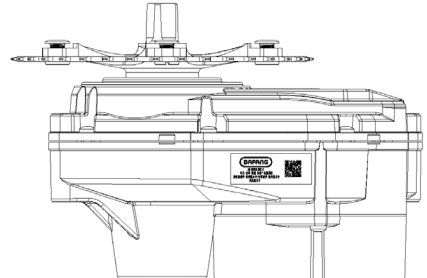
- **Scope of Application**



Only apply to electric powered bicycles, and specifically designed or licensed for pedelec. It is suitable for mountain bikes. It should not be used for competition or other commercial purposes.

- **Identification**

There are the unique identification of the product on the housing, as shown in figure:



Note: Contents in Label part are important information of this product. Please keep them properly for updating of software or providing after-sales service.

## 6.2 SPECIFICATIONS

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① Motor model: MM G333.250.C

Rated power (W)	250
Rated voltage (V)	36 / 43 / 48
Waterproof	IP65
Certification	CE / ROHS / EN14766
Operating temperature	-20 C~45 C

### 6.2.1 Surface

Shockproof black coating

### 6.2.2 Storage Information

The pedelec should be stored in a ventilated humid and dry room. Avoid storing the pedelec near strong magnetic objects.

## 6.3 MAINTENANCE

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- Maintenance must be carried out by authorized personnel with the correct equipment.
- Do not disassemble the motor.
- Do not use thinners or other solvents to clean the components. Such substances can damage the surfaces.
- Avoid water submerging, to keep the components protected.
- Avoid using high-pressure cleaning jets.
- For prolonged storage, turn off the battery and avoid storing near heat sources.

# 7 USER MANUAL FOR DP C11.CAN

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# 7.1 IMPORTANT NOTICE

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- If the error information from the display cannot be corrected according to the instructions, please contact your retailer.
- The product is designed to be waterproof. It is highly recommended to avoid submerging the display under water.
- Do not clean the display with a steam jet, high-pressure cleaner or water hose.
- Please use this product with care.
- Do not use thinners or other solvents to clean the display. Such substances can damage the surfaces.
- Warranty is not included due to wear and normal use and aging.

# 7.2 INTRODUCTION OF DISPLAY

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- Model: DP C11.CAN BUS
- The housing material is PC and Acrylic, and the button material is made of silicone.
- The label marking is as follows:



- **Note:** Please keep the QR code label attached to the display cable. The information from the Label is used for a later possible software update.

# 7.3 PRODUCT DESCRIPTION

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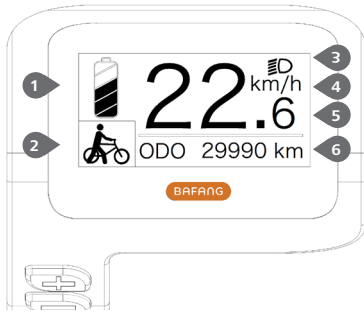
## 7.3.1 Specifications

- Operating temperature: -20 °C~45 °C
- Storage temperature: -20 °C~50 °C
- Waterproof: IP65
- Storage room Humidity: 30%-70% RH

## 7.3.2 Functional Overview

- Speed display (including top speed and average speed, switching between km and miles)
- Battery capacity indicator
- Lighting control
- Brightness setting for backlight
- Walk assistance
- Indication of performance support
- Motor output power indicator
- Time display for single journeys
- Kilometer stand (including single-trip distance, total distance and remaining distance)
- 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)
- Information View (battery, controller, HMI and sensor)
- Error messages view

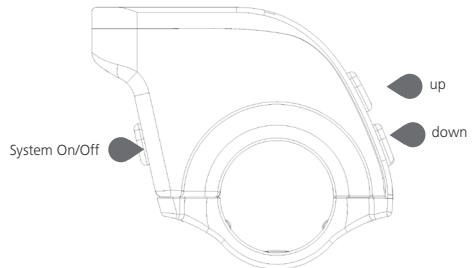
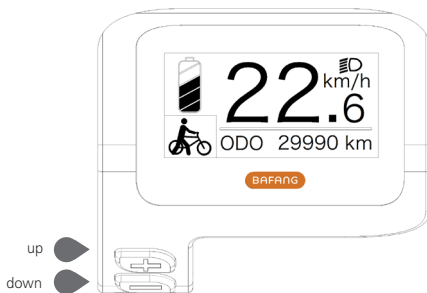
# 7.4 DISPLAY



- 1 Display of battery capacity in real time.
- 2 Support level
- 3 The display shows this symbol **D** , When the lights are turned on.
- 4 Unit of speed
- 5 Digital speed display
- 6 Trip: Daily kilometers (TRIP) - Total kilometers (ODO) - Top speed (MAX) - Average speed (AVG) - Remaining distance (RANGE) - Energy Consumption (CALORIES) - Output power (POWER)- Travel time (TIME).



**Service:** Please see the service section

# 7.5 KEY DEFINITION



# 7.6 NORMAL OPERATION



## 7.6.1 Switching the System ON/OFF

Press 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 reset 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.




## 7.6.2 Selection of Support Levels

When the display is turned on, press the  or  button (<0.5S) 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.

For different assist levels please see part **"Assist Mode"**.

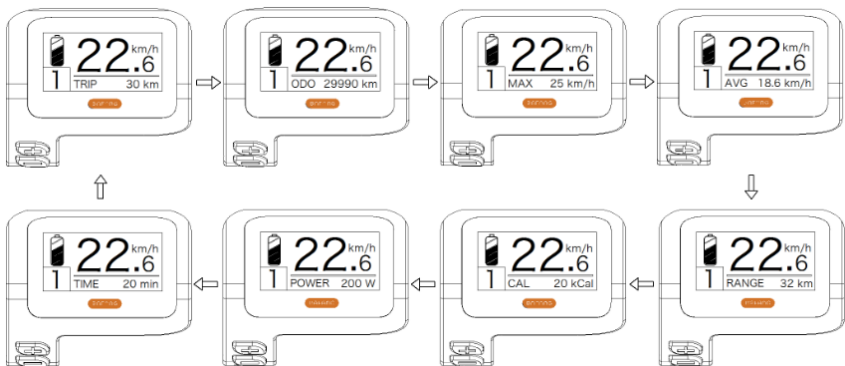


## 7.6.3 Selection mode

Briefly press the  button (<0.5s) to see the different trip modes.

Trip: daily kilometers (TRIP) - total kilometers (ODO) - Maximum speed (MAX) - Average speed (AVG) - Remaining distance (RANGE) - Energy consumption (CALORIES) - Output power (POWER) - Travel time (TIME).

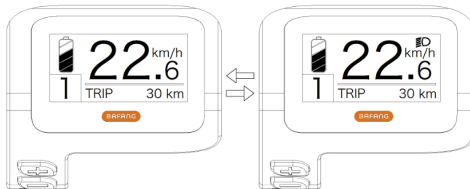




### 7.6.4 Headlights / backlighting




Hold the **+** button (>2S) to activate the headlight and taillights.

Hold the **+** button (>2S) again to turn off the headlight. The brightness of the backlight can be set in the display settings "**Brightness**".



### 7.6.5 Walk Assistance

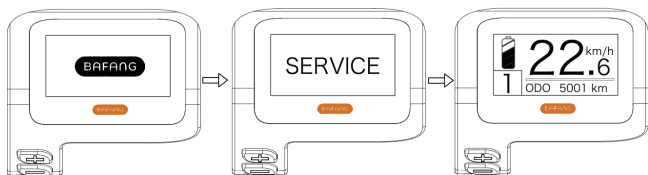
The Walk assistance can only be activated with a standing pedelec.

Activation: Press the **+** button until this symbol  appears. Next press and hold down the **+** button whilst the  symbol is displayed, now the Walk assistance will activate. The symbol  will blink and the pedelec moves approx. 5 km/h. After releasing the **+** button, the motor stops automatically and switches back to level 0.



### 7.6.6 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.



### 7.6.7 Battery capacity indicator

The battery capacity is shown in the top left of the display. Each full bar represents a remaining capacity of the battery in a percentage.

(as shown in the diagram below):

Capacity Range	Indicator
80%-100%	
60%-80%	
40%-60%	
20%-40%	
5%-20%	
<5%	blinking

# 7.7 SETTINGS

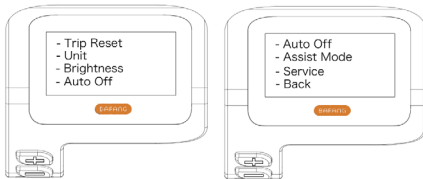
After the display is turned on, press and hold the **+** and **-** buttons (at the same time) to enter into the setting menu, By pressing the **+** or **-** button (<0.5S), you can highlight and select Display Setting, Information or Exit. Then press the **Enter** button (<0.5S) to confirm your selected option.

Or highlight "EXIT" and press the **Enter** button (<0.5S) to return to the main menu, or highlight "BACK" and press (<0.5S) the **Enter** button (<0.5S) to return to the Settings interface.



## 7.7.1 "Display Setting"

Press the **+** or **-** button (<0.5S) and highlight Display Setting, and then briefly press the **Enter** button (<0.5S) to access the following selections.



### 7.7.1.1 "TRIP Reset" Reset mileage

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



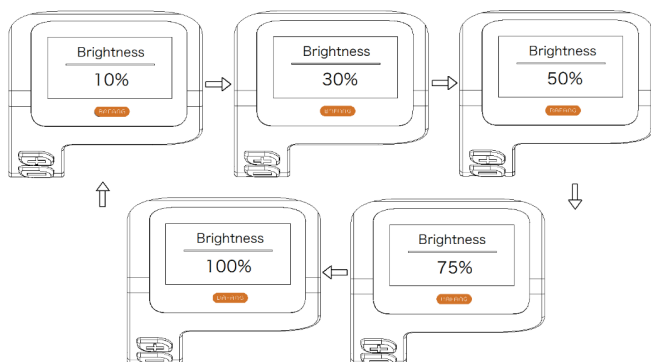
### 7.7.1.2 "Unit" Selections in km/Miles

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



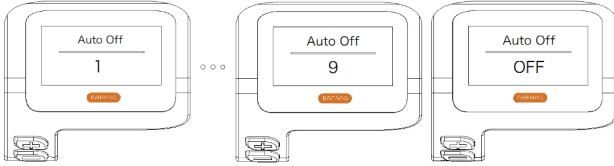
### 7.7.1.3 "Brightness" Display brightness

Press the **+** or **-** button (<0.5S) to highlight "Brightness" in the Display setting menu, and then press **⏻** button (<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 **⏻** button (<0.5S) to save and exit to the "Display setting".



### 7.7.1.4 "Auto Off" Set Automatic system switch off time

Press the **+** or **-** button (<0.5S) to highlight "Auto Off" in the Display setting menu, and then press **⏻** button (<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 **⏻** button (<0.5S) to save and exit to the "Display setting".



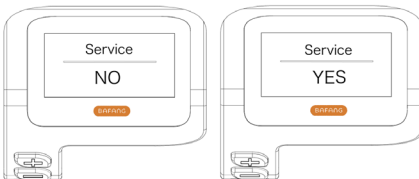
### 7.7.1.5 "Assist Mode" Set support level

Press the **+** or **-** button (<0.5S) to highlight "Max Pass" in the Display setting menu, and then press **⏻** button (<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 **⏻** button (<0.5S) to save and exit to the "Display setting".



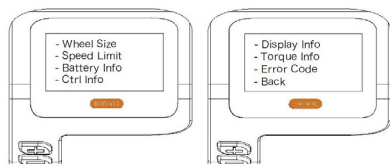
### 7.7.1.6 "Service" Switching the notification on and off

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



## 7.7.2 "Information"

Once the display is turned on, press and hold the **+** and **-** buttons (at the same time) to enter into the setting menu, press the **+** or **-** button (<0.5S) to select "Information", then press the **⏻** button (<0.5S) to confirm and enter into "Information".



### 7.7.2.1 Wheel Size

Press the **+** or **-** button (<0.5S) to highlight "Wheel Size", then press the **⏻** button (<0.5S) to confirm and view the wheel size. To return, press the **⏻** button (<0.5S) to exit back to the "Information".

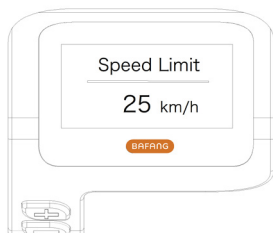
This information cannot be changed, this is only for information, about the pedelec.



### 7.7.2.2 Speed Limit

Press the **+** or **-** button (<0.5S) to highlight "Speed Limit", then press the **⏻** button (<0.5S) to confirm and view the speed limit. To return, press the **⏻** button (<0.5S) to exit back to the "Information".

This information cannot be changed, this is only for information, about the pedelec.



### 7.7.2.3 Battery Information

Press the **+** or **-** button (<0.5S) to highlight "Battery Info", then press the **⏻** button (<0.5S) to confirm. Now press the **+** or **-** button (<0.5S) to view the contents.

To return, press the **⏻** button (<0.5S) to exit back to the "Information".

Code	Code definition	unit	Code	Code definition	unit
Hardware ver	Hardware version		b10	Absolute SOC	%
Software ver	Software version		b11	Cycle	times
b01	Current temperature	°C	b12	Maximum not charging time	Hour
b04	Total voltage	mV	b13	Recently not charging time	Hour
b06	Average current	mA	d00	Number of battery cell	
b07	Remaining capacity	mAh	d01	Voltage of cell 1	mV
b08	Full charge capacity	mAh	d02	Voltage of cell 2	mV
b09	Relative SOC	%	dn	Voltage of cell n	mV

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

### 7.7.2.4 Controller Information

Press the **+** or **-** button (<0.5S) to highlight "Ctrl Info", then press the **⏻** button (<0.5S) to confirm. Now press the **+** or **-** button (<0.5S) to view Hardware Version or Software Version.

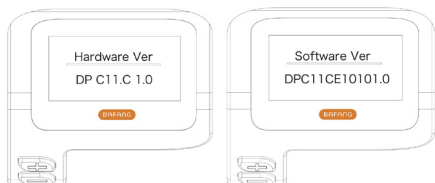
To return, press the **⏻** button (<0.5S) to exit back to the "Information".



### 7.7.2.5 Display Information

Press the **+** or **-** button (<0.5S) to highlight "Display Info", then press the **⏻** button (<0.5S) to confirm. Now press the **+** or **-** button (<0.5S) to view Hardware Version or Software Version.

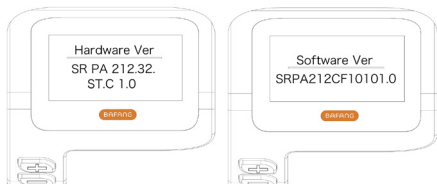
To return, press the **⏻** button (<0.5S) to exit back to the "Information".



### 7.7.2.6 Torque Information

Press the **+** or **-** button (<0.5S) to highlight "Torque Info", then press the **⏻** button (<0.5S) to confirm. Now press the **+** or **-** button (<0.5S) to view Hardware Version or Software Version.

To return, press the **⏻** button (<0.5S) to exit back to the "Information".



### 7.7.2.7 Error Code

Press the **+** or **-** button (<0.5S) to highlight "Error code", then press the **⏻** button (<0.5S) to confirm. Now press the **+** or **-** button (<0.5S) to view a list of error codes from the pedelec. It can show information for the last ten errors of the pedelec. The error code "00" means that there is no error.

To return, press the **⏻** button (<0.5S) to exit back to the "Information".





# 7.8 ERROR CODE DEFINITION



The display can show the errors of a pedelec. If an error is detected, one of the following error codes will be displayed.

**Note:** Please read the description of the error code carefully. If you see the error code, restart the system first. If the problem is not resolved, please contact your dealer.

Error	Declaration	Troubleshooting
04	The throttle has fault.	<ol style="list-style-type: none"> <li>1. Check the connector of throttle whether they are correctly connected.</li> <li>2. Disconnect the throttle, If the problem still occurs, please contact your retailer. (only with this function)</li> </ol>
05	The throttle is not back in its correct position.	Check the throttle can adjust back into its correct position, if the situation does not improve, please change to a new throttle.(only with this function)
07	Overvoltage protection	<ol style="list-style-type: none"> <li>1. Remove the battery.</li> <li>2. Re-Insert the battery.</li> <li>3. If the problem persists, please contact your retailer.</li> </ol>
08	Error with the hall sensor signal inside the motor	Please contact your retailer.
09	Error with the Engine phase's	Please contact your retailer.
10	The temperature inside the engine has reached its maximum protection value	<ol style="list-style-type: none"> <li>1. Turn off the system and allow the Pedelec to cool down.</li> <li>2. If the problem persists, please contact your retailer.</li> </ol>
11	The temperature sensor inside the motor has an error	Please contact your retailer.
12	Error with the current sensor in the controller	Please contact your retailer.
13	Error with the temperature sensor inside of the battery	Please contact your retailer.

Error	Declaration	Troubleshooting
14	The protection temperature inside the controller has reached its maximum protection value	<ol style="list-style-type: none"> <li>1. Turn off the system and let the pedelec cool down.</li> <li>2. If the problem persists, please contact your retailer.</li> </ol>
15	Error with the temperature sensor inside the controller	Please contact your retailer.
21	Speed sensor Error	<ol style="list-style-type: none"> <li>1. Restart the system</li> <li>2. Check that the magnet attached to the spoke is aligned with the speed sensor and that the distance is between 10 mm and 20 mm.</li> <li>3. Check that the speed sensor connector is connected correctly.</li> <li>4. If the error persists, please contact your retailer.</li> </ol>
25	Torque signal Error	<ol style="list-style-type: none"> <li>1. Check that all connections are connected correctly.</li> <li>2. If the error persists, please contact your retailer.</li> </ol>
26	Speed signal of the torque sensor has an error	<ol style="list-style-type: none"> <li>1. Check the connector from the speed sensor to make sure it is connected correctly.</li> <li>2. Check the speed sensor for signs of damage.</li> <li>3. If the problem persists, please contact your retailer.</li> </ol>
27	Overcurrent from controller	Please contact your retailer.
30	Communication problem	<ol style="list-style-type: none"> <li>1. Check all connections are correctly connected.</li> <li>2. If the error persists, please contact your retailer.</li> </ol>
33	Brake signal has an error (If brake sensors are fitted)	<ol style="list-style-type: none"> <li>1. Check all connectors.</li> <li>2. If the error continues to occur, please contact your retailer.</li> </ol>

Error	Declaration	Troubleshooting
35	Detection circuit for 15V has an error	Please contact your retailer.
36	Detection circuit on the keypad has an error	Please contact your retailer.
37	WDT circuit is faulty	Please contact your retailer.
41	Total voltage from the battery is too high	Please contact your retailer.
42	Total voltage from the battery is too low	Please contact your retailer.
43	Total power from the battery cells is too high	Please contact your retailer.
44	Voltage of the single cell is too high	Please contact your retailer.
45	Temperature from the battery is too high	Please contact your retailer.
46	The temperature of the battery is too low	Please contact your retailer.
47	SOC of the battery is too high	Please contact your retailer.
48	SOC of the battery is too low	Please contact your retailer.
61	Switching detection defect	Please contact your retailer. (only with this function)
62	Electronic derailleur cannot release.	Please contact your retailer. (only with this function)
71	Electronic lock is jammed	Please contact your retailer. (only with this function)
81	Bluetooth module has an error	Please contact your retailer. (only with this function)

# 8 USER MANUAL FOR BT C01.XXX.UC

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# 8.1 INSTRUCTIONS

## 8.1.1 Battery

 Your pedelec can be equipped with different battery types.

(Depending on the manufacturer's configuration)

Model numbers:


BT C01.340.UC (340 Wh)

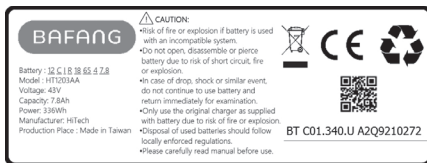
BT C01.450.UC (450 Wh)


BT C01.600.UC (600 Wh)

BT C01.750.UC (750 Wh)



 Before use, read the information on the label of the battery.





 Please only use the original BAFANG charger to charge the battery. The battery is not fully charged when it is delivered. Please charge the battery completely before its first use and before storage.


- It is recommended to charge the battery after use. Deep discharge is harmful to the battery. Never fully discharge the battery. If the battery remains uncharged for an extended period, this will damage the capacity of the battery. For storage, the recommended capacity of the battery should be between (60-80%).


- Do not charge the battery longer than the charging time specified in the "SPECIFICATION" table.

### 8.1.1.1 Safety instructions


 It is possible for the battery to cause a fire, explosion or hazard if the battery is connected to an incompatible system. Do not open, disassemble or pierce the battery as this can lead to short circuits, leaks, fires or explosions. If the battery falls to the ground, or exposed to a blow or similar event, do not continue to use the battery, take it to your retailer to examine. Use only the original charger supplied with the battery, otherwise it can lead to an explosion or permanent damage. The disposal of used batteries must be carried out at a suitable disposal point.

 **The battery should always be kept out of reach of children. The use of the charger or the battery is not suitable for children.**

 **Do not touch a leaking battery.**  
Leaking electrolytes can seep into the skin and cause discomfort. If battery acid encounters the eyes, do not rub it! Immediately wash your eyes carefully with clean water and consult a doctor or a hospital.

 **A faulty battery can lead to overheating, smoking or burning.**

When the battery gets hot keep yourself and others a safe distance away from the battery. In case of damage or heat, you should avoid touching the battery. See chapter ("Environmental tips").

 **Do not disassemble the battery.**  
The battery contains protective components to avoid danger. Incorrect handling, such as improper disassembly, can destroy the protective functions and lead to overheating, smoke and explosion.

**Do not intentionally short-circuit the battery.**

Never allow the plus and minus connectors to come into contact with each other. Do not allow the battery to come into contact with metal objects. It is dangerous if the battery is short-circuited. As it can lead to overheating, smoke, explosion or burning.

**Do not heat or burn the battery.**

An overheated or ignited battery can cause battery cells to explode.

**Do not use the battery near heat sources.**

Do not use the battery near an open flame or at temperatures above 60 °C. High temperatures can cause the battery to burn or explode.

**Do not charge the battery near open fire or in direct sunlight.**

This can cause errors or internal problems inside the battery, also damaging the protective function. It can lead to abnormal chemical reactions or malfunctions that lead to overheating, smoke and explosion.

**Do not damage the battery.**

The battery must not be dropped or damaged. This can lead to overheating, smoke and explosion. Never submerge the battery in water.

**Do not charge the battery directly from the socket or a cigarette lighter in the car.**

High voltage and excessive current will damage the battery and reduce its lifespan. It can lead to overheating, smoke and explosion.

**8.1.1.2 Battery Storage**

If you do not use your pedelec for a long time, remove the battery, and charge about (60-80%) on. Store the battery separately in a suitable dry place.

- Avoid direct sunlight from the sun, as it may cause it to overheat, and cause internal problems in the battery. It can lead to abnormal chemical reactions or malfunctions that lead to overheating, smoke and explosion.

- To prevent a deep discharge, the battery is put into sleep mode after a certain time.
- Do not extend the battery to temperatures below the permissible storage temperature of -10 °C to 35 °C. Note that temperatures of about 45 °C are common near heaters, in direct sunlight or in overheated vehicle interiors.



Do not continue to use the battery if you notice that it gets hot during operation, charging or storage, develops a strong smell, changes its appearance, or is otherwise unusual. Do not continue to use the battery and have it checked by a retailer before using it again.

**8.1.1.3 Battery wear**

The battery can be charged 500 times. The battery capacity decreases during this time, thus reducing the range of the pedelec. If the range is not enough depending on the capacity of the battery may need to be replaced.

**8.1.1.4 Pedelec riding distance**

It is best to charge the battery at room temperatures and insert the battery just before the start of the journey. The discharge cycle of the battery can be affected by:

- Used pedal power
- Total weight (load and driver)
- Tire air pressure
- Headwind
- Ambient temperature
- Road/underground condition
- selected speed level
- Slope
- Battery charge level
- Age
- Remaining capacity of the battery

## 8.1.2 Charger

**i** The charger is specially designed for charging lithium-ion batteries. It is equipped with an integrated fuse and overcharging protection.



### 8.1.2.1 Battery charger Instructions

**!** Read the instructions on the external label of your charger before using the battery.



**!** To prevent the risk of electric shock, you should never open the charger. Maintenance work may

only be carried out by qualified service personnel. Be sure to read the information about your charger before use! Unplug the power plug before connecting the battery to the charger or removing it from the charger.

**!** Keep the charger away from children and animals. In the event of malfunction or damage, it may result in a fire or electric shock.

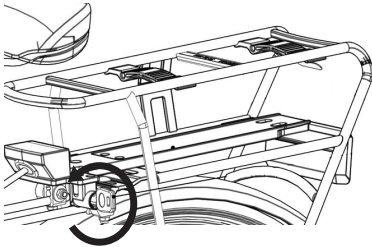
- The charger must not be operated by children or people with limited sensory or mental disabilities.
- Do not use your charger if it is moist or dusty.
- Avoid direct sunlight.
- Disconnect the charger from the power supply when not in use.
- Use only the original Bafang charger that came with your pedelec.
- Do not cover the charger while in use. There is the possibility of short circuits or fires.
- When cleaning the charger, unplug it from the power outlet first.
- Stop the Charge process if the charging cycle lasts longer than the length listed in the Specifications table.

# 8.2 OPERATION

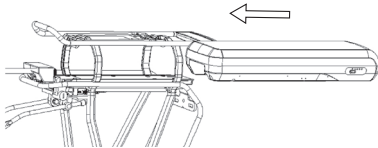
## 8.2.1 Installing the battery

**i** For correct insertion, the battery must be inserted and pushed forward from the back of the pedelec. If the battery is inserted incorrectly, the pedelecs electric drive system cannot be switched on.

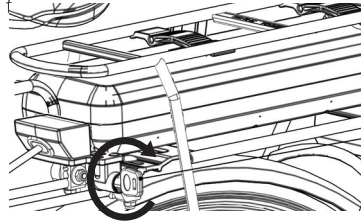
1. In order to insert the battery, please make sure that the lock is open.



2. Slide the battery along the battery rail as far as possible into the battery holder.

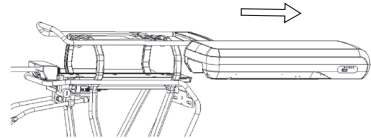


3. Once the battery is inserted, the battery can be locked. Then remove the key to avoid losing or damaging



## 8.2.2 Removing the battery

1. Turn off the electrical power supply before removing the battery.
2. Unlock the battery.



3. Remove the battery from the holder.



## 8.2.3 Charging the battery



Use only the original battery charger supplied to you, as there is a risk of fire or explosion if the incorrect charger is used.



You can charge your battery when mounted on the bike or when it is removed.



Lithium-ion batteries are not subject to any memory effect. You can recharge your battery at any time, even after short journeys.

Charge the battery at temperatures between 0°C and 45°C (ideally at room temperature approx. 20 °C). Give your battery enough time to reach this temperature before charging.



Before charging, read the instructions on the charger.

1. First plug the connector of the charging cable into the charging socket in the battery, then connect the charger into a wall socket.
2. As soon as the charger is connected to the power supply, a red LED will light up.



3. When charging is complete, the LED changes from red to green.



The charging time depends on several factors. It can vary greatly depending on the temperature, age, use and capacity of the battery. For information on the

charging time of your battery, see "SPECIFICATION"

When the battery is fully charged, the charging process stops automatically. Unplug the connector from the battery and then removed from the mains.

### 8.2.3.1 Safety instructions



Use only the battery charger.

Make sure you are using the correct mains voltage. The required mains voltage is indicated on the charger.

- Do not touch the power plug with wet hands. There is a risk of electric shock.
- Note: A sudden rise in temperature can cause condensation in the battery. To avoid condensation, charge the battery at the same place where it is stored.
- Before using, check that the charger, cable and plug are not damaged. Do not use the charger, if you notice any damage. There is a risk of electric shock.

- Charge the battery only in a well-ventilated room.
- Do not cover the charger/battery during charging. There is a risk of overheating, fire or explosion.
- Charge the battery in a dry place, and on a non-flammable surface.



The battery must be charged at least once every 3 months to avoid damage or destruction of the cells.





If the charging process takes longer than usual, the battery may be damaged. In this case, stop charging immediately. Have the battery and charger checked by your retailer to prevent further damage.


## Errors - Causes and Solutions

Description	Cause	Solution
The operating display does not light up.	Power plug is not correctly connected to the power supply	Check that all connectors on the charger are correctly connected to the power supply.
The charging indicator is not lit.	The battery may be malfunctioning.	Contact your retailer.
The charging indicator does not glow permanently red.	The battery may be malfunctioning.	Contact your retailer.







### 8.2.4 LED display for charging status and charging capacity

**i** Press the “” button for 1 second to indicate the state of charge from the LEDs on the battery. Press and hold the “” button for 6 seconds to indicate the capacity of the battery.

#### 8.2.4.1 Sleep state

To prevent the battery from being discharged, the battery management system puts the battery into deep sleep mode. For technical reasons, no function is specified in sleep mode. Press the “” button and hold for 10 seconds to wake up from Deep Sleep mode.

#### Charge status indication

LED	LED state	SOC
	First LED blinks	≤ 5 %
	One LED light turns green	5 – 20 %
	2 LED lights turn green	20 – 40 %
	3 LED lights turn green	40 – 60 %
	4 LED lights turn green	60 – 80 %
	5 LED lights turn green	≥ 80 %

## 8.3 SPECIFICATIONS

### 8.3.1 Battery

Primary Settings	BT C01.340.UC	BT C01.450.UC	BT C01.600.UC	BT C01.750.UC
Rated voltage	43 DCV	43 DCV	43 DCV	43 DCV
Nominal Capacity	7.8Ah	10.4Ah	14Ah	17.5Ah
Rate Capacity	6.43 Ah (1C Discharge)	8.5 Ah (1C Discharge)	11.4 Ah (1C Discharge)	14.3 Ah (1C Discharge)
Power	340Wh	450Wh	600Wh	750Wh
Charging time	4.5 h with a 2 A Charger	6.5 h with a 2 A Charger	5.5 h with a 3 A Charger	6.5h with a 3 A Charger
Storage (At 35% SOC & 10° ~ 35 °C)	6 months	6 months	6 months	12 months
Riding Distance*	Minimum 35 km	Minimum 50 km	Minimum 65 km	Minimum 85 km
Dimensions (L*W*H)	408 * 123 * 70 mm			
Weight	3 kg	3.5 kg	3.5 kg	4 kg
Charger	Special 5P charger	Special 5P charger	Special 5P charger	Special 5P charger

\* Ideal conditions: Flat terrain, approx. 15km/h average speed, no headwind, approx. 20 °C ambient temperature, high-quality bike components, tire tread and pressure with minimal rolling resistance, experienced ebike rider(always shifts gears correctly), additional weight(excluding bike weight)<70kg.

### 8.3.2 Charger

- Operating voltage: 100 ACV–240 ACV, 47 – 63 Hz
- Rated output voltage: 49.2 V
- Output current: 2 A ± 0.2 A
- Minimum battery charge voltage: 24 ± 2 V
- Timing Protection: 15 ± 1 h
- Temperature protection: NTC < 0 ± 3 °C or NTC > 55 ± 3 °C
- AC Connector: 100 ACV-240 ACV with protective contact
- Certificate: CE, GS