

# User Manual for Nihola Family Generation 2 – Version 2024/B

**IMPORTANT.** This user manual must be read carefully by all future users before using your new Nihola Family Generation 2 – Cargobike.



Congratulations on your new Nihola Family Generation 2. We hope you will have many good experiences on your new cargobike. We ask that you read this manual carefully before using your new Nihola Family Generation 2.

If you are in doubt about anything, please contact Nihola Bikes ([nihola@nihola.dk](mailto:nihola@nihola.dk)) or your Nihola dealer before using your Nihola Cargobike.

**Before using NIHOLA Family Generation 2 in public traffic and with passengers** you should practice and become familiar with the bike in a place where there is no traffic, where the road is in level and without drops or climbs. If you are going to use the bike for transporting people or goods, you should also practice with this weight before using the bike in public traffic. Become familiar with the brakes, gears, the function of the electrical system and how the bike reacts while riding before using the bike in public

traffic, both with and without weight. If you do not feel fully confident and safe while riding, you should not use the bike in public traffic and with passengers.

If there are multiple users of the Nihola Bike, this manual must also be read by these users - before using the bike. The owner of the bike is responsible for this.

When you receive your new Nihola Cargobike, we recommend that you save your purchase receipt somewhere where you can easily find it again after many years, either printed or digitally. You will need this original receipt with purchase price and frame number in the event of a resale, complaint or if it is stolen. When contacting Nihola Bikes Denmark, please provide / send a copy of the invoice and service history.

If your frame number is not listed on the purchase invoice, please contact your dealer so that this is noted and archived correctly.

You can find the frame number at the top of the frame seat tube (at the top of the frame where the seat post is mounted in the frame).

**Every time and before you use the Nihola Bike, you must make sure:**

- That the brakes are fully functional.
- That the tire pressure is correct (4.5 bar / 65 PSI is the recommended pressure for both front and rear tires).
- That the belts and buckles for passenger transport are functional and adjusted correctly.
- That there are no noises or play from the gears, wheels, handlebars, seat post, saddle or steering system.

**Using NIHOLA Family Generation 2:**

**Keys.** When you receive the bike, start by separating the keys and making a spare set. Keep your spare keys in a place where you can easily find them. If you lose one set, have a new spare set made immediately by your local locksmith. It can be complicated and very expensive to get new keys if both sets are lost.

**Luggage carrier and battery installation.** Luggage carrier must not be used for transporting people or goods. When inserting the battery, it should be done carefully. If you push the battery in too hard, the electrical connection between the battery and the luggage carrier may be damaged.

**Parking brake.** Activation: Pull in the brake lever and push in the small lever on the brake – push the small lever in and then release the brake lever. Important: **The parking brake may only be used for a maximum of 30 minutes** as using the parking brake for a longer period of time can cause damage to the brake system.

**Approved lock.** Maintenance: For the lock to function optimally, it should be lubricated regularly. In winter at least once a month. It is recommended to use a non-greasy and acid-free lubricant. When using the approved lock, be aware that the spokes in the rear wheel can become bent if the bicycle is moved when it is locked. If just two spokes are damaged and the bicycle is subsequently used, all the spokes in the wheel must be replaced, as they will all be weakened in strength afterwards. If only the two spokes in the wheel are subsequently replaced, more spokes in the wheel will usually quickly snap afterwards.

**Brakes.** If the brakes are not fully functional, the NIHOLA Family Generation 2 must not be used.

**The hood** can be washed with lukewarm soapy water and a soft brush. The hood must not be washed in a washing machine. Depending on the hours of sunshine, the hood will fade over time. Do not bend or fold the windows. Instead, roll up the windshield and secure it with the buckle at the top of the hood. In freezing weather, you must treat the window with extra care because the plastic becomes hard and can crack when folded and hit. The two hood brackets are the same and can be removed and placed under the seat on the cargo floor. You can protect and extend the life of the hood by impregnating it with fabric impregnation spray.

**The bench** can be easily removed without the use of tools by lifting the elastic band from the red knob. Always use a seat belt(s) when riding with children or adults. Do not leave your child sleeping on the bike with the seat belt on. The lap belt must always be used while riding. If head support is needed, a suitable pillow can be used that rests on the back of the canopy and supports the child's head.

**The total width is 89 cm.** If you need to go through a narrower doorway, you can drive the bike with the front wheels turned at an angle through a doorway of approx. 85 cm.

**Children getting in the cargobox.** Lift the Nihola Bike at the end until the bike stands on its nose - and let the children get in and out themselves. This way you avoid having to lift them.

**Transporting a baby lift.** Always use a soft, shock-absorbing surface and always use carrier straps located at the bottom of the bike.

**Gear shifting.** The Nihola Family Generation 2 is normally fitted with 3 internal Bafang automatic gears. This means that you do not have to change gears yourself while riding. The gear system does not require a battery.

**Winter riding / Frost.** During the winter, you should wash your bike and lubricate the chain often. The wet weather and road salt are hard on your bike. If you don't wash the salt away, your bike will be damaged. Use warm water and a brush to wash and remove the salt. The plastic windows are sensitive to cracking in hard frost, so be careful with impacts and folding of the plastic windows in freezing temperatures. It is a good idea to have your cables serviced just before the winter period, where they are lubricated and inspected.

**The most important thing about the Bafang electric system.** Before first use, the battery must be fully charged. When inserting the battery, it should be done carefully. If you push the battery in too hard, the power plug on the luggage carrier can be damaged. In general, all electric bicycles benefit from being dry. However, many users do not have the opportunity to do so. Use a "bicycle garage cover" when parking for a long time and at night, if you do not have the opportunity to park your Nihola COMBO under a roof, in a garage or similar. And always take the battery with you inside when possible. All batteries lose capacity over time and must be replaced. The low temperatures we experience in the winter months will reduce the battery's range. The battery must be charged at least every 3 months.

#### **Electric motor. Display, Battery and troubleshooting:**

- Electric motor. See page 7-10 this manual.
- Display. See page 11-23 this manual.
- Battery. See page 27-34 in this manual.
- Troubleshooting / Error codes. See page 24-26 in this manual.

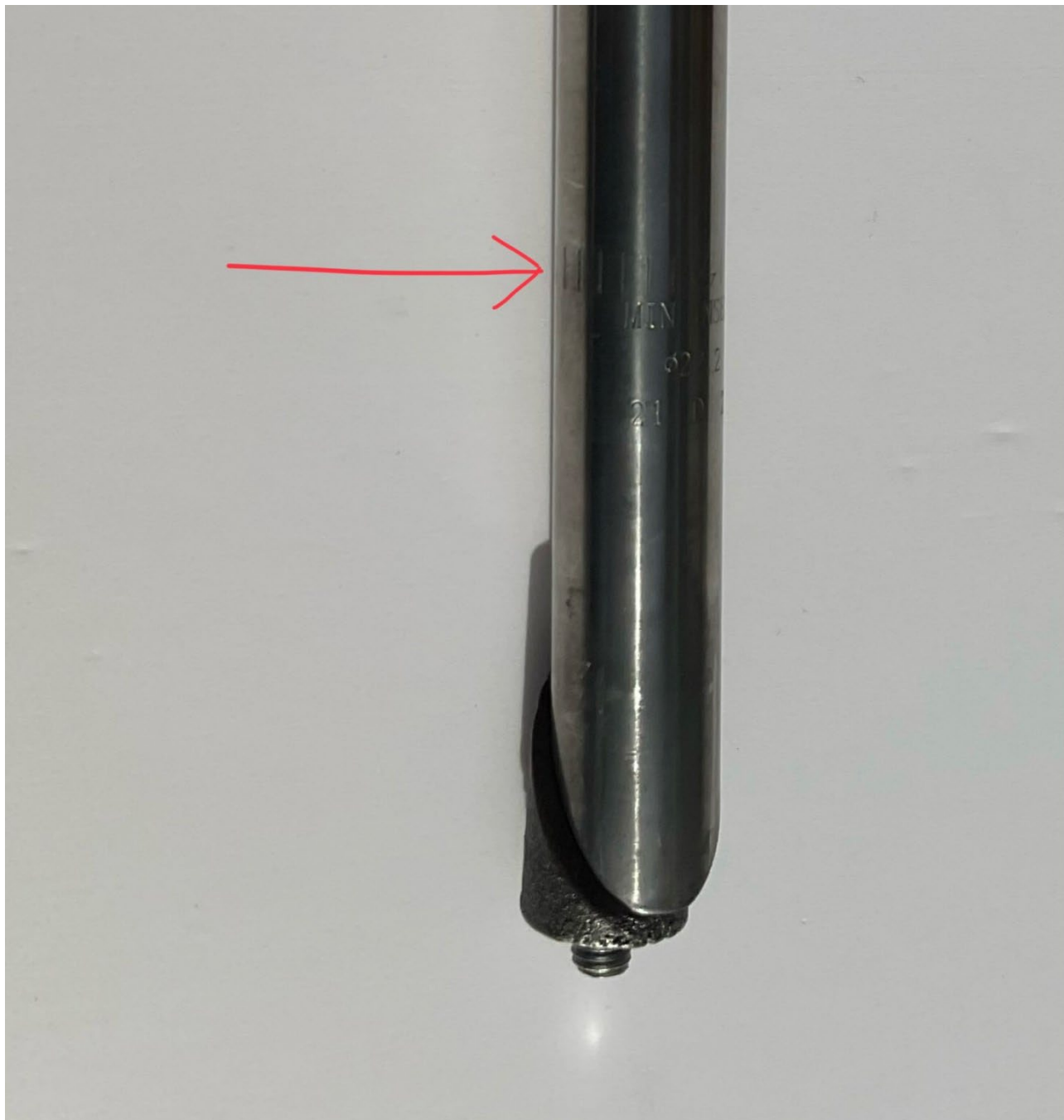
**Service.** Please make sure the first 3 months service is done and get a receipt from your dealer for this. After that, we recommend a service every 2000 km or at least every year. It is a good idea to have an annual service carried out just before the winter period, when your cables will also be lubricated and checked. We recommend that you save the service history on the bike. In addition to the usual well-known service, the dealer must retighten the spokes in all three wheels, retighten the bolts and nuts that fasten the rear frame to the frame (4 pcs. 8 mm nuts, 2 pcs. 6 mm bolts and 2 pcs. 10 mm bolts with corresponding

10 mm nuts). If one or more spokes are bent or damaged, you must immediately stop using the bike, as any subsequent use will damage the other spokes very quickly and all spokes must therefore be replaced.

**Seat post.** The maximum height mark must not be visible. See the image below. If a higher or lower seat post is required, the outer diameter is 25.4 mm.



**Stem (mounted from steerer tube to handlebar).** The maximum height mark must not be visible. See the image below. If a stem that is higher, lower or has a different design is required, the outer diameter is 22.2 mm.





**Stem (mounted from steerer tube to handlebar).** The bolt marked in red in the image below must not be tightened more than 28 Nm. Overtightening may cause damage to the handlebar connection.



**Warranty.** Keep all your receipts from service. The first 3 months of service must be completed and is important in relation to the warranty. Therefore, ask for a receipt for this first service, which you can later present in case of a possible complaint. If you wash your bike in the winter, do not overload it and have it serviced regularly, it will last for many years.

**Max. recommended total weight for Nihola Family is 230 kg.** Nihola Family Generation 2 weighs fully equipped with bench, canopy, motor and battery 57 kg. This means that the recommended max. load capacity for driver, children / passengers and any other load together must be 173 kg. Overloading the Nihola bike can cause damage to the frame or wheels. Check the frame often for cracks in weldings and also check the wheel spokes often. The sooner any damage is discovered, the easier it is to repair. Important: overloading leads to increased braking distance and can thus cause personal injury when riding.

We hope you will enjoy your Nihola Family Generation 2 and that it will give you many good experiences.

Enjoy and ride carefully.

Kind regards, NIHOLA BIKES DENMARK

# 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

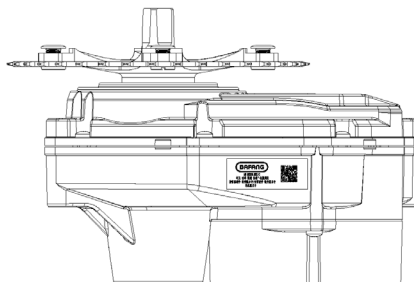
- **Scope of Application**



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

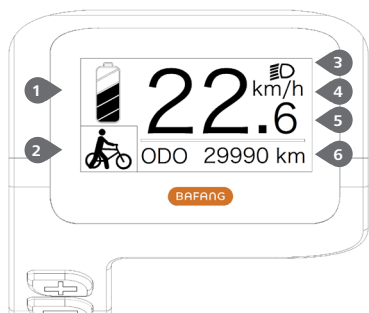
- Operating temperature: -20 °C~45 °C
- Storage temperature: -20 °C~50 °C
- Waterproof: IP65
- Storage room Humidity: 30%-70% RH


### 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



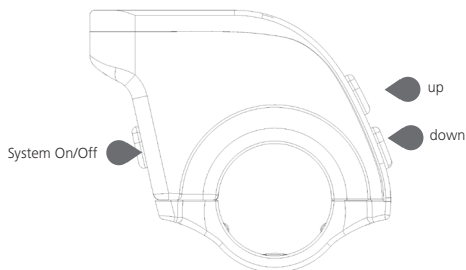
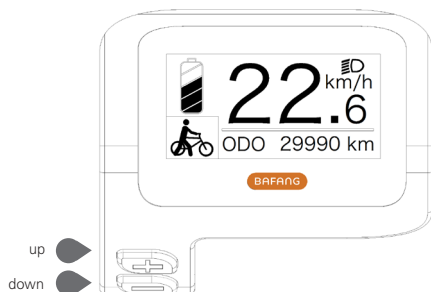
## 7.4 DISPLAY



- 1 Display of battery capacity in real time.
- 2 Support level
- 3 The display shows this symbol , 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.

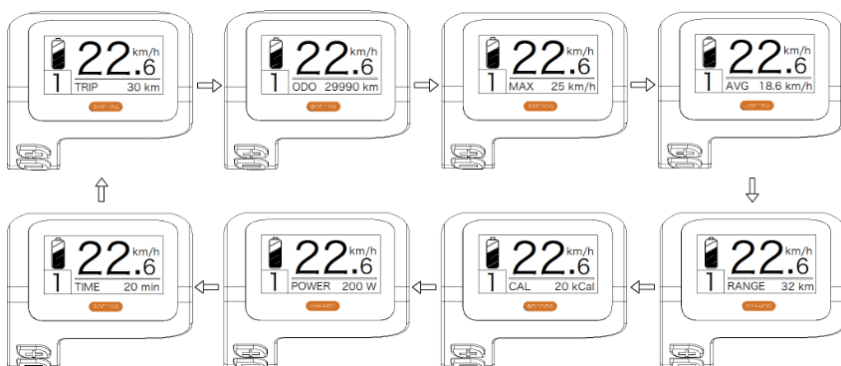
For different assist levels please see part **"Assist Mode"**.



### 7.6.3 Selection mode

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

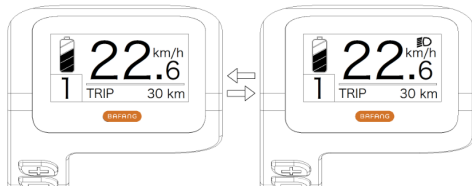
Trip: daily kilometers (TRIP) - total kilometers (ODO) - Maximum speed (MAX) - Average speed (AVG)  
- Remaining distance (RANGE) - Energy consumption (CALORIES) - Output power (POWER) - Travel time (TIME).



## 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

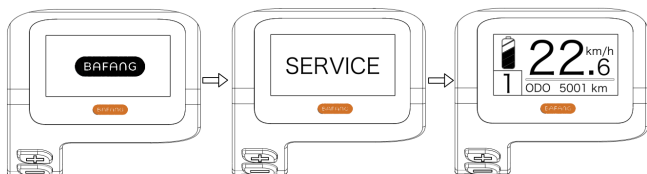
The Walk assistance can only be activated with a standing pedelec.

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

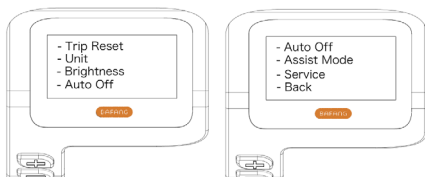
After the display is turned on, press and hold the **+** and **-** buttons (at the same time) to enter into the setting menu. By pressing the **+** or **-** button (<0.5S), you can highlight and select Display Setting, Information or Exit. Then press the **⏻** button (<0.5S) to confirm your selected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

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





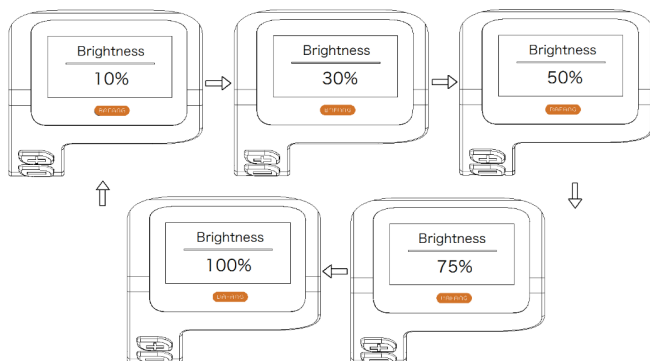
### 7.7.1.2 "Unit" Selections in km/Miles

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".



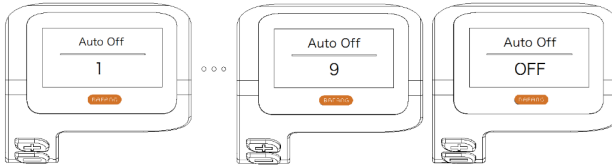
### 7.7.1.3 "Brightness" Display brightness

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 **POWER** 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 **POWER** button (<0.5S) to save and exit to the "Display setting".



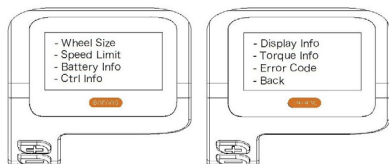
#### 7.7.1.6 "Service" Switching the notification on and off

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

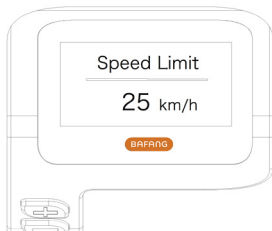
This information cannot be changed, this is only for information, about the pedelec.



#### 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	℃	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.

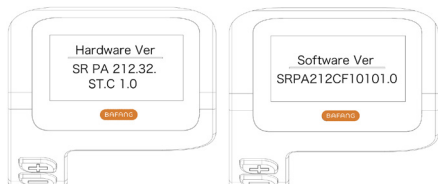
To return, press the **⏻** button (<0.5S) to exit back to the "Information".



### 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 pedecec. It can show information for the last ten errors of the pedecec. 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.	1. Check the connector of throttle whether they are correctly connected. 2. Disconnect the throttle, If the problem still occurs, please contact your retailer. (only with this function)
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	1. Remove the battery. 2. Re-Insert the battery. 3. If the problem persists, please contact your retailer.
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	1. Turn off the system and allow the Pedelec to cool down. 2. If the problem persists, please contact your retailer.
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 W/h)

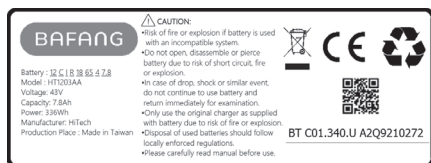
BT C01.450.UC (450 W/h)


BT C01.600.UC (600 W/h)

BT C01.750.UC (750 W/h)



 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.

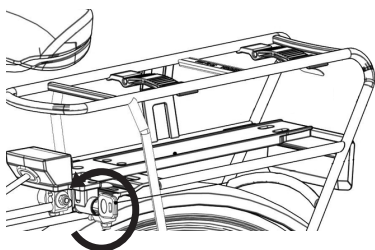
- The charger must not be operated by children or people with limited sensory or mental disabilities.
- Do not use your charger if it is moist or dusty.
- Avoid direct sunlight.
- Disconnect the charger from the power supply when not in use.
- Use only the original Bafang charger that came with your 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

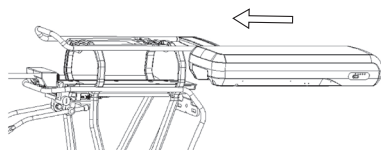
### 8.2.1 Installing the battery

**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.

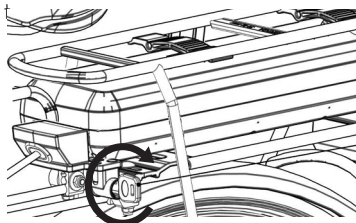
1. In order to insert the battery, please make sure that the lock is open.



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

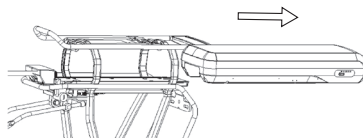


3. Once the battery is inserted, the battery can be locked. Then remove the key to avoid losing or damaging



### 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	$\leq 5\%$
	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	$\geq 80\%$

## 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 8-10°~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