



## BAFANG DP C220.CAN Display User Manual

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### BAFANG DP C220.CAN Display



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## IMPORTANT NOTICE

- 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.

## INTRODUCTION OF DISPLAY

- Model: DP C220.CAN BUS
- The housing material is ABS and Acrylic.



- The label marking is as follows

BAFANG

D P C 2 2 0 C E 1 0 1 0 1 . 0

P D 0 3 1 3 0 5



**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.

## PRODUCT DESCRIPTION

### Specifications

- Operating temperature: -20°C~45°C
- Storage temperature: -20°C~50°C
- Waterproof: IPX5
- Storage room Humidity: 30%-70% RH

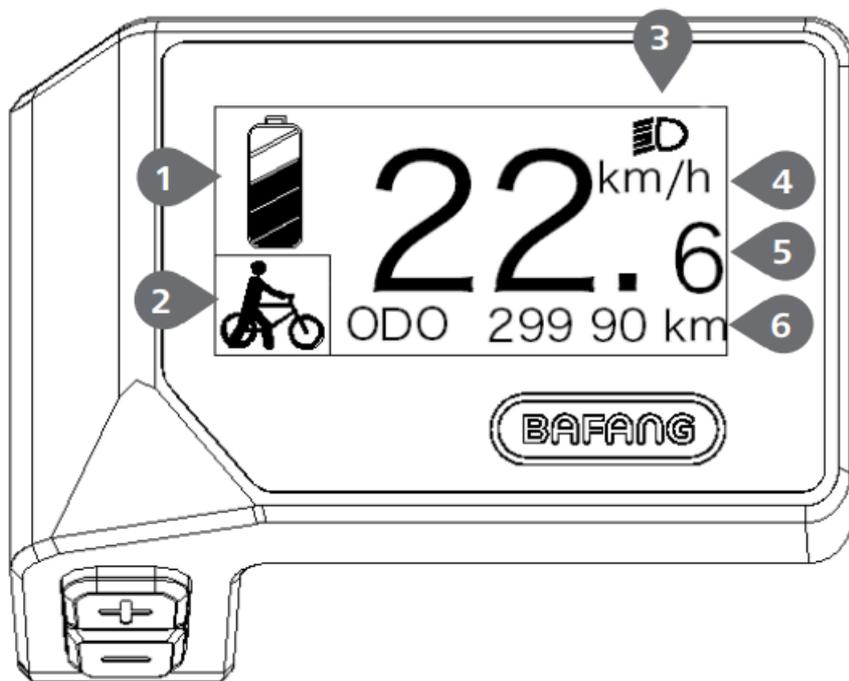
### Functional Overview

- 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

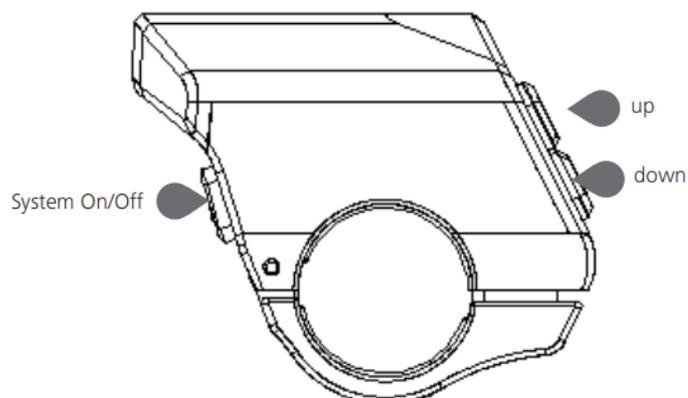
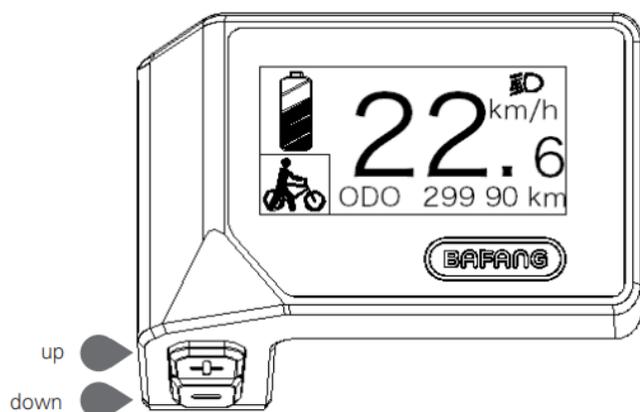
## DISPLAY

1. Display of battery capacity in real time.
2. Indicator of support level/walk assistance.
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



## KEY DEFINITION

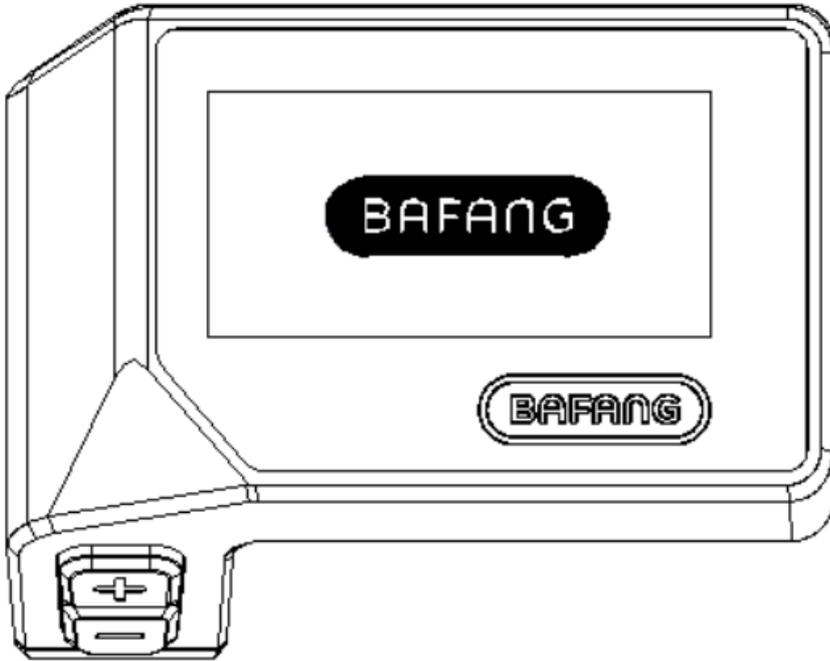


## NORMAL OPERATION

### 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.



### Selection of Support Levels

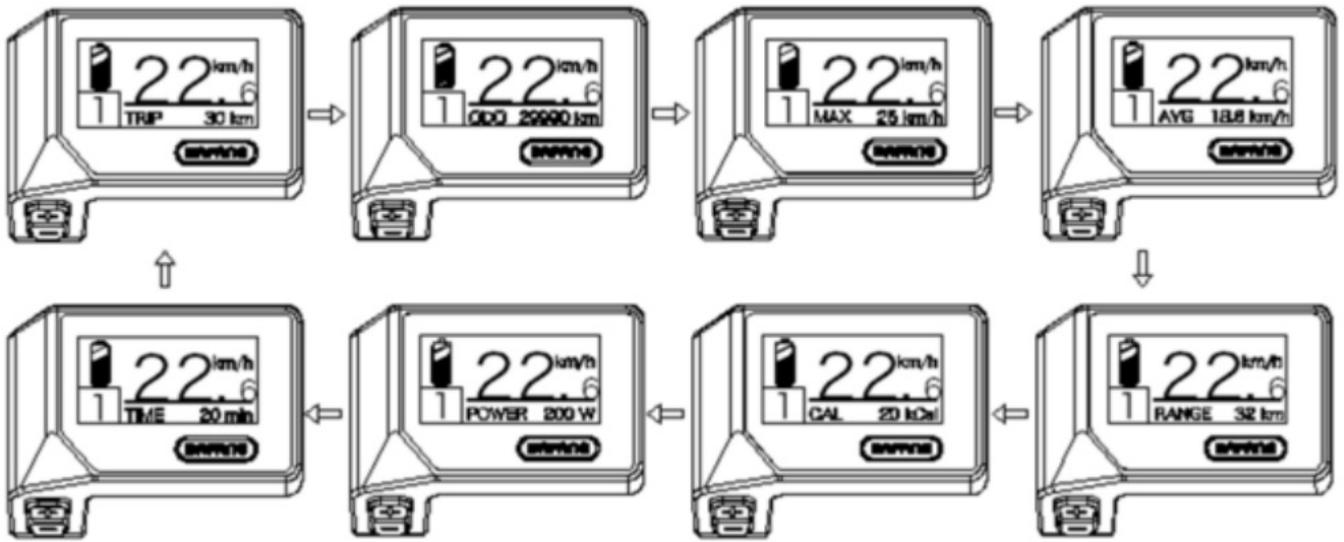
When the display is turned on, press the  or  button (<0.5S) to switch to the support level, the lowest level is 0, the highest level is 3. When the system is switched on, the support level starts in level 1. There is no support at level 0.



### Selection mode

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

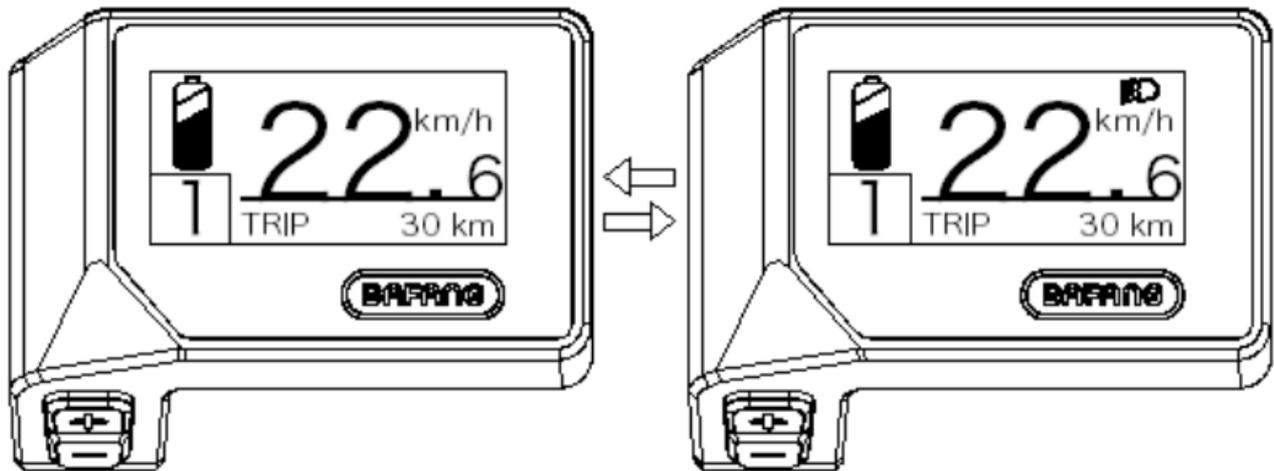
Trip: daily kilometers (TRIP) – total kilometers (ODO) – Maximum speed (MAX) – Average speed (AVG)  
– Remaining distance (RANGE) – Energy consumption (CALORIES) – Output power (POWER) – Travel time (TIME).



### 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".



### 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. 4.5 km/h. After releasing the  button or no button is pressed within 5S, the motor stops automatically and switches back to level 0.



## SERVICE

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



## 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 

## SETTINGS

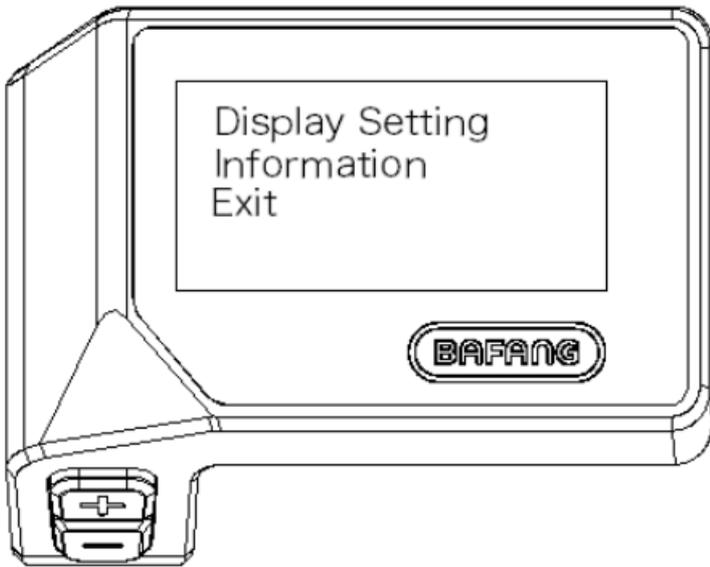
After the display is turned on, press  and  hold the and buttons (at the same time) to enter into the

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.

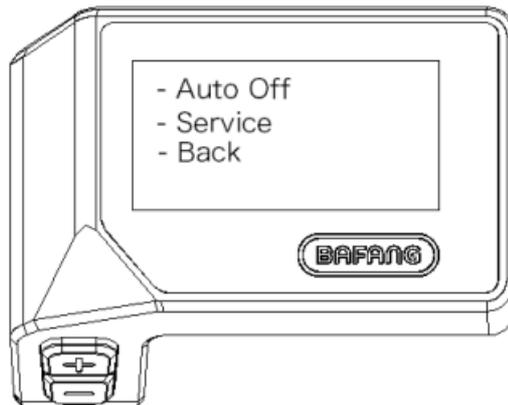
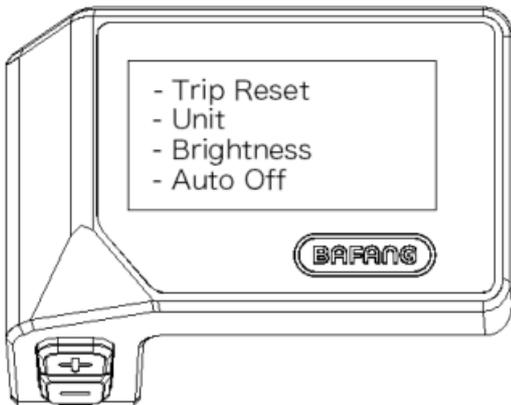
Or highlight "EXIT" and press the button (<0.5S) to return to the main menu, or highlight "BACK" and press

(<0.5S) the  button (<0.5S) to return to the Settings interface.



### “Display Setting”

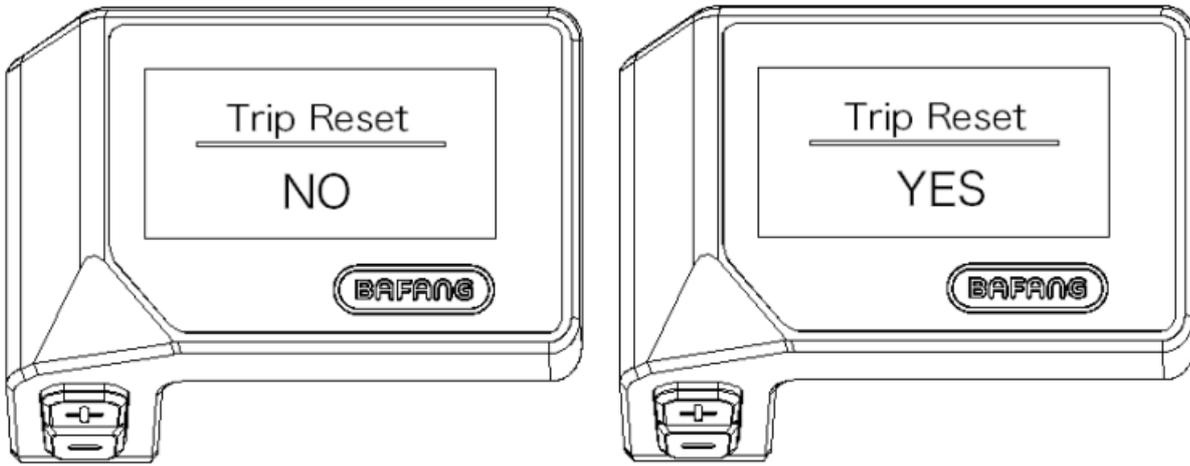
Press the  or  button (<0.5S) and highlight Display Setting, and then briefly press the  button (<0.5S) to access the following selections.



### “TRIP Reset” Reset mileage

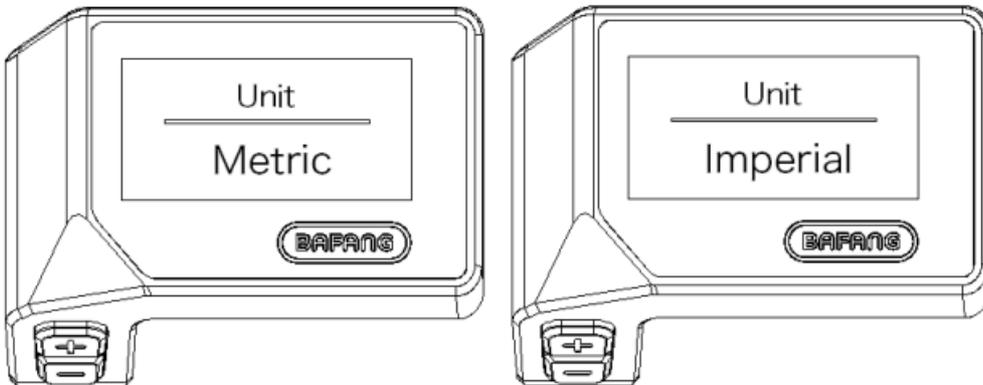
Press the  or  button (<0.5S) to highlight “Trip Reset” in the Display setting menu, and then press  button (<0.5S) to select. Then with the  or  button choose between “YES” or “NO”.

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



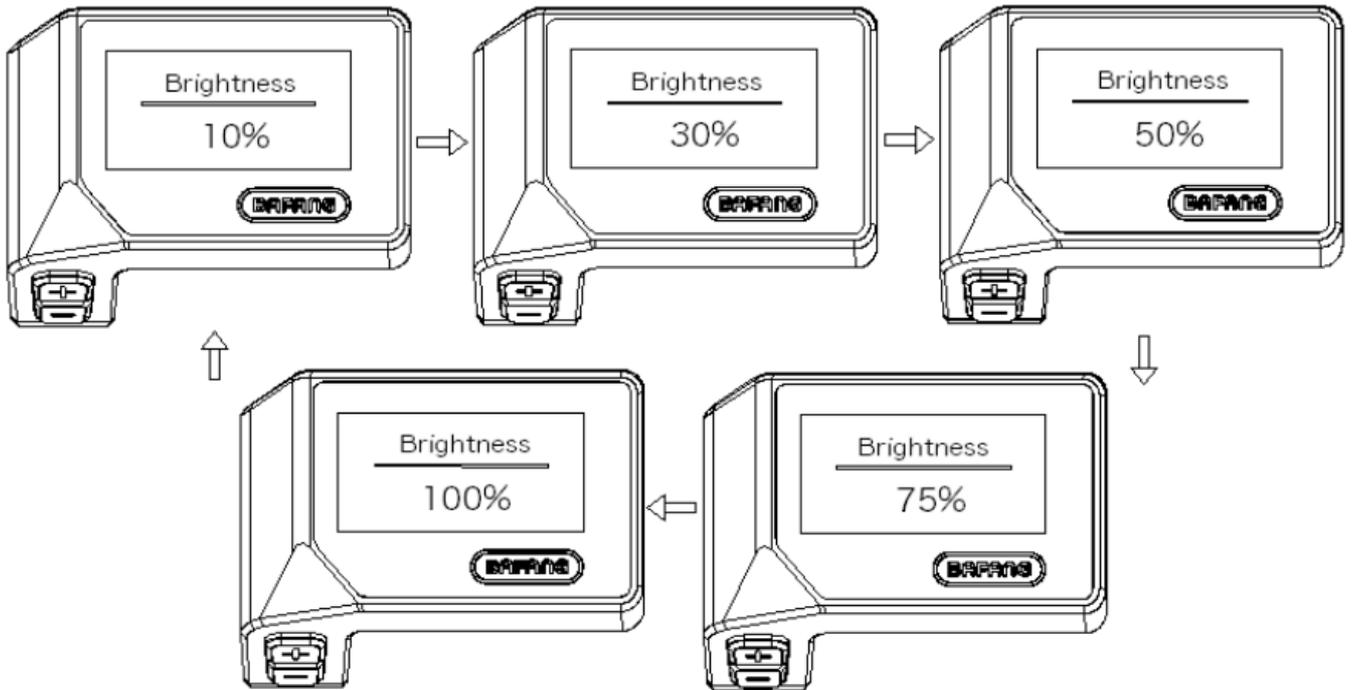
### “Unit” Selections in km/Miles

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”.



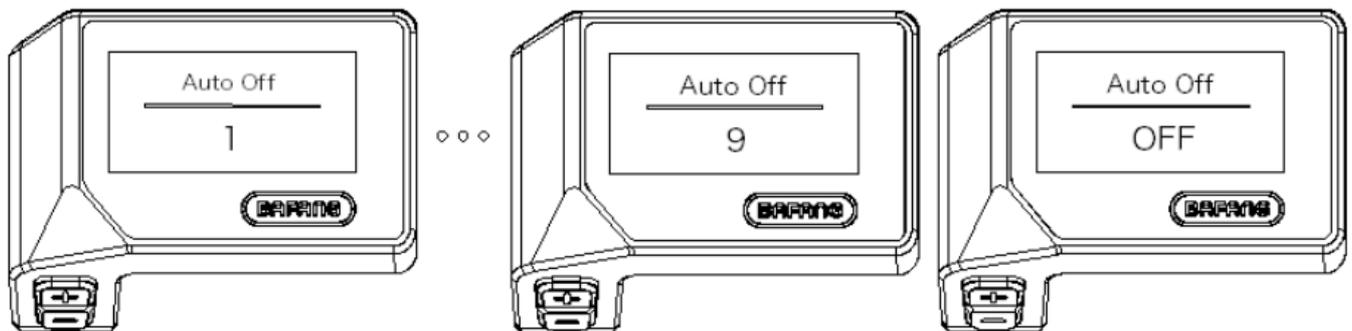
### “Brightness” Display brightness

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”.



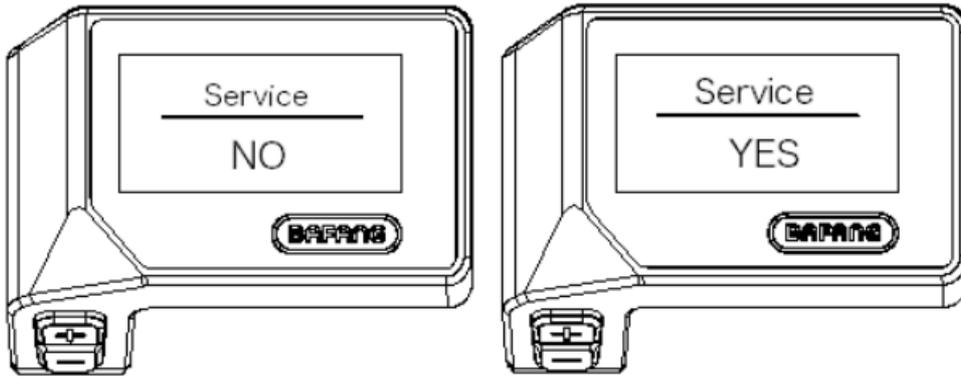
**“Auto Off” Set Automatic system switch off time**

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”.



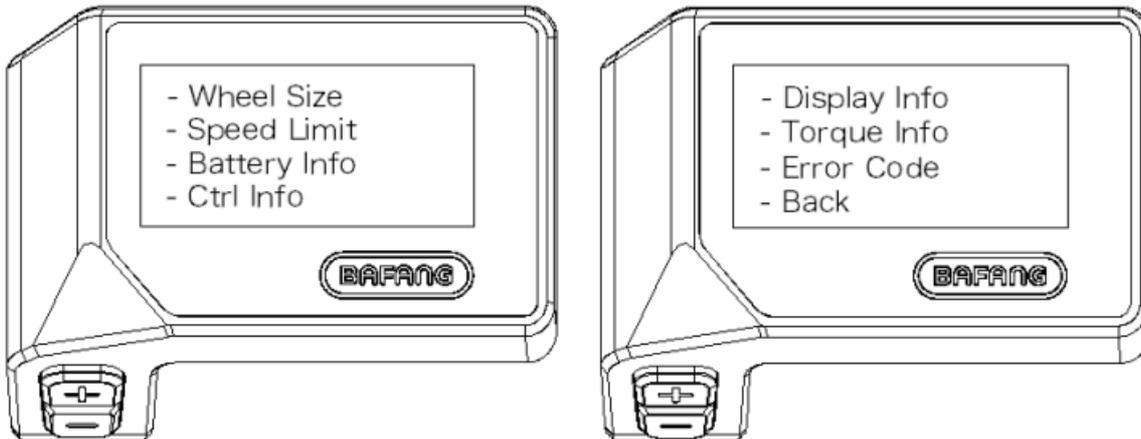
**“Service” Switching the notification on and off**

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”.



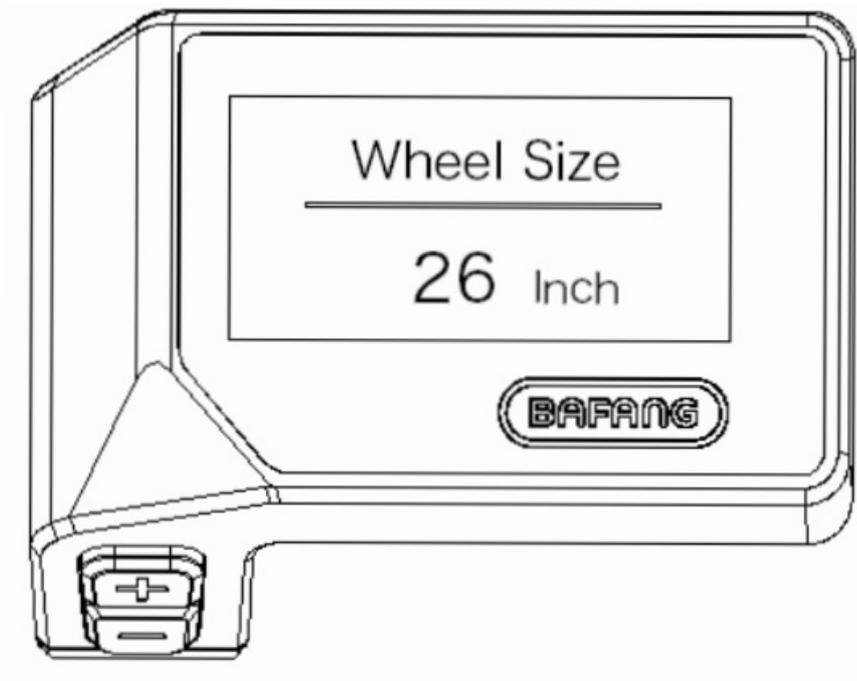
## “Information”

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”.



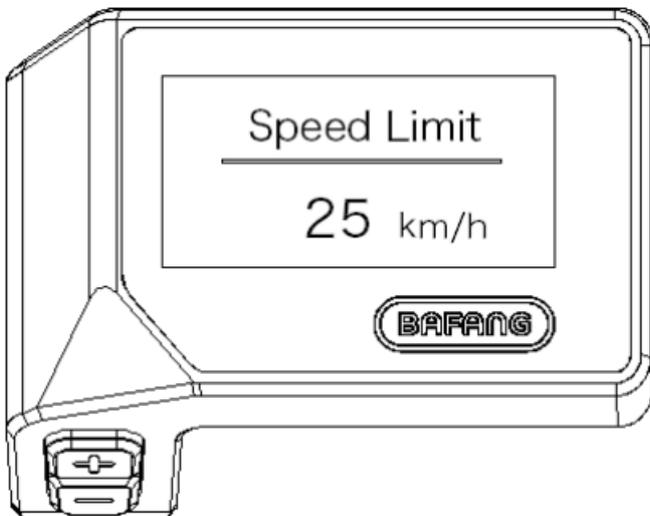
## Wheel Size

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.



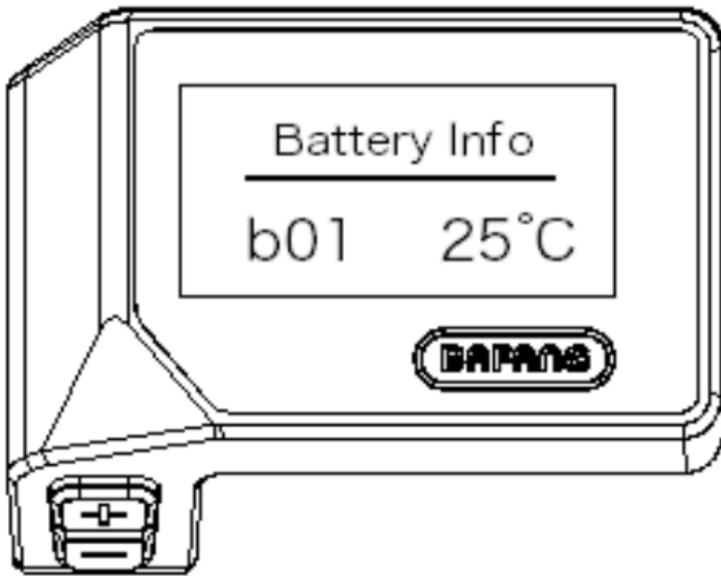
### Speed Limit

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.



### 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

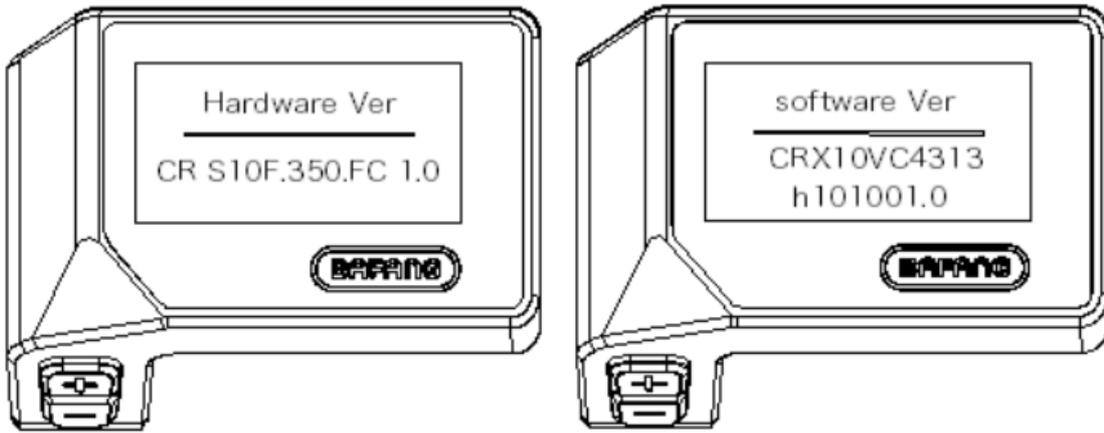
**NOTE:** If no data is detected, “-” is displayed.

### 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.

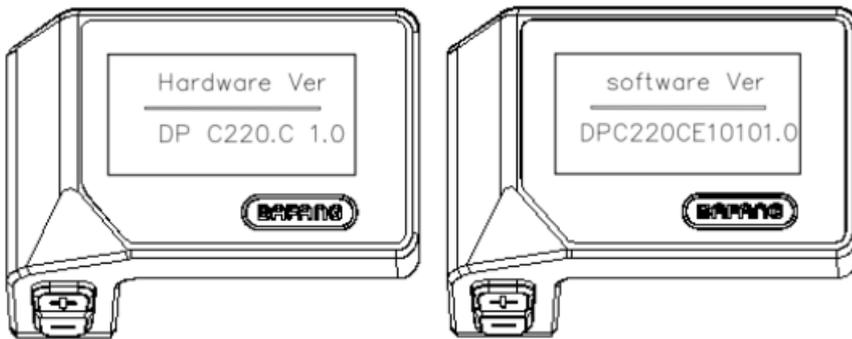
To return, press the  button (<0.5S) to exit back to the “Information”.



### 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.

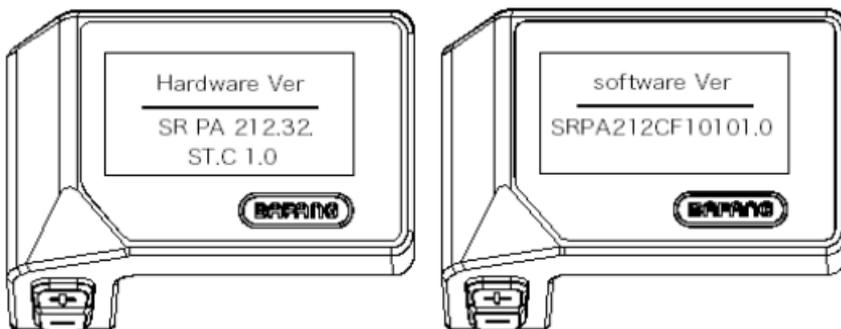
To return, press the  button (<0.5S) to exit back to the “Information”.



### 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”.

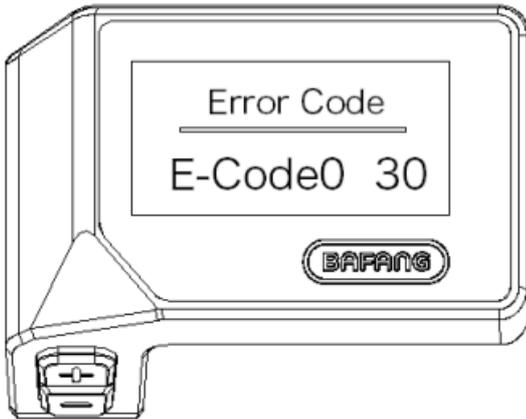


## Error Code

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".



## 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.</li></ol> <p>(only with this function)</p>
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.
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>
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)



## Documents / Resources

	<p><a href="#">BAFANG DP C220.CAN Display</a> [pdf] User Manual DP C220.CAN Display, DP C220.CAN, Display</p>
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