



BAFANG DP C231.CAN E-Bike LCD Display User Manual

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BAFANG DP C231.CAN E-Bike LCD Display



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/guarantee is not included due to wear and normal use and aging.

INTRODUCTION OF DISPLAY

- Model: DP C231.CAN BUS
- The housing material is ABS and acrylic:



- The label marking is as follows:

	
DPC231CK10202.0	
PD051305	

DPC231CK10202.0
PD051305
DP C231.C 2.0
702K1Q7280001

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: IP65
- Bearing humidity: 30%-70% RH

Functional Overview

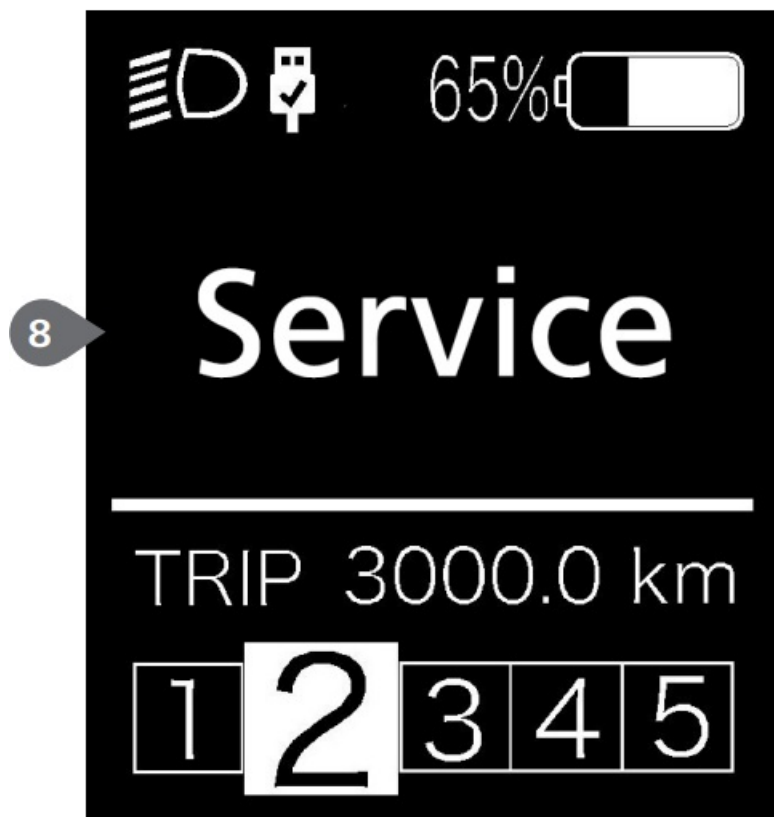
- Speed display (including top speed and average speed, switching between km and miles).
- Battery capacity indicator.
- Automatic sensors explanation of the lighting system.
- Brightness setting for backlight.
- Indication of performance support.
- Motor input power indicator.
- Kilometer stand (including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

DISPLAY

1. The display shows  this symbol, if the light is on. USB charging indicator displays  the icon  , if an external USB device is connected to the display.
2. The Bluetooth indicator displays when the Bluetooth device is connected.
3. Speed display in real time.
4. Trip: Daily kilometers (TRIP) – Total kilometers (ODO) – Top speed (MAX) – Average speed (AVG) – Range (RANGE) – Output power (POWER) – Energy Consumption (CALORIES) – Travel time (TIME).
5. Support level/ Walking assistance 
6. Display of battery capacity in real time.
7. Unit switching between km and miles.



8. Service: Please see the service section



KEY DEFINITION

System On/Off
OK/Enter



Up

Down





NORMAL OPERATION

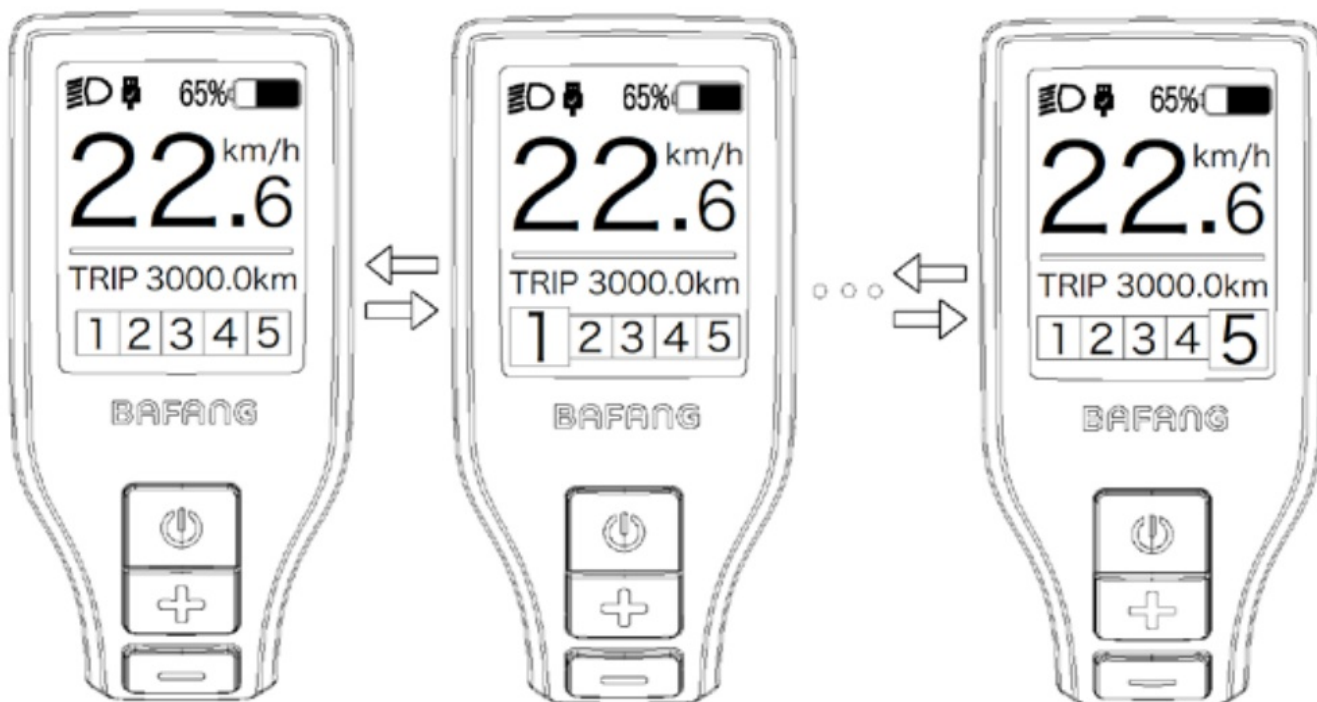
Switching the System ON/OFF

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 set with the “**Auto Off**” function See “Auto Off”, the display will automatically be turned off within the desired time when it is not in operation. If the password function is enabled, you must enter the correct password to use the system.


Selection of Support Levels

When the display is turned on, press the  or  (<0.5S) button to switch to the support level, the lowest level is 0, the highest level is 5. When the system is switched on, the support level starts in level 1. There is no support at level 0.



Headlights / backlighting







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

Hold the  (>2S) button again to turn off the headlight. The brightness of the backlight can be set in the display settings **"Brightness"**. If the display /Pedaled is switched on in a dark environment, the display backlight/headlight will automatically be switched on. If the display backlight/headlight has been manually switched off, the automatic sensor function is deactivated. You can only turn on the light manually. After switching on the system again.



Walk Assistance

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

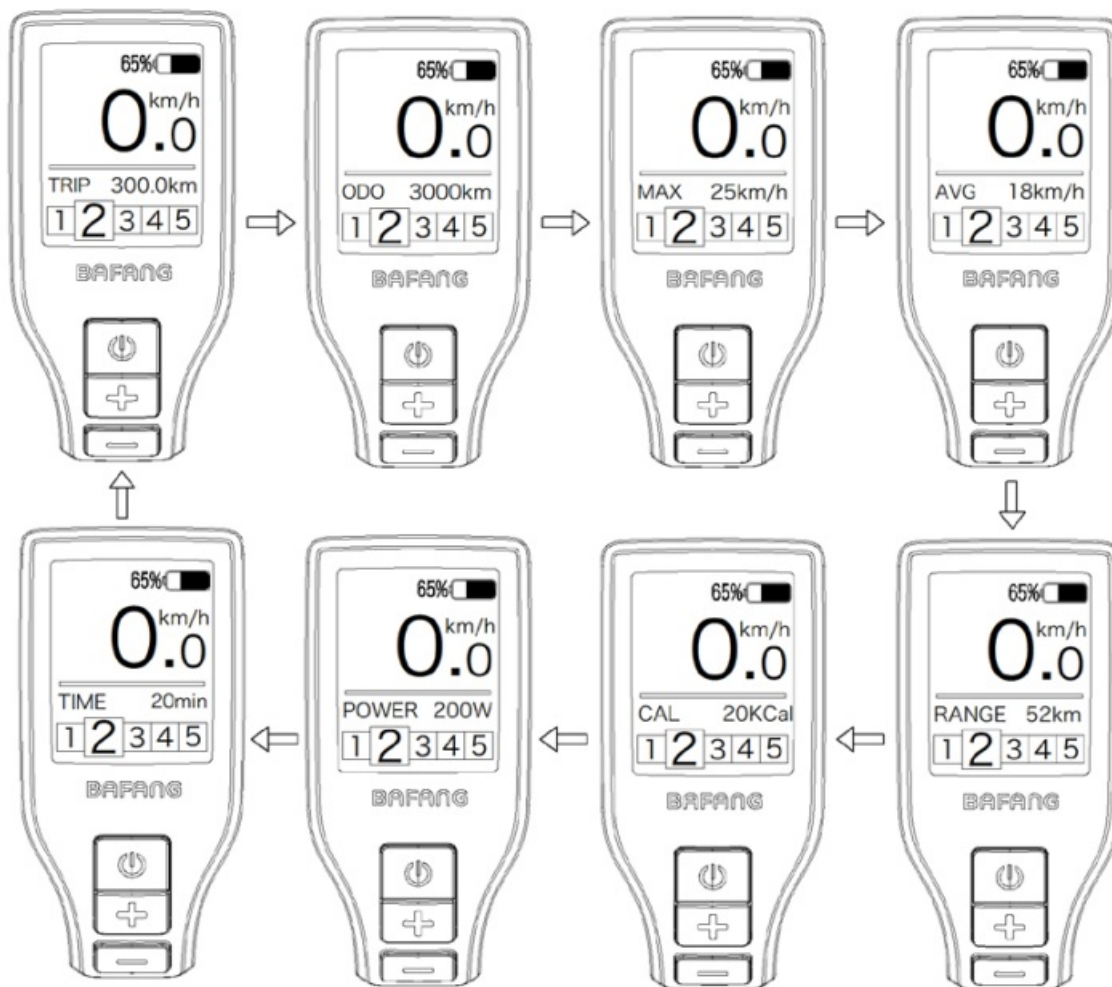
Activation: Press the  button until this symbol  appears. Next hold down the  button whilst the  symbol is displayed. Now the Walk assistance will activate. The symbol  will flashes and the pedelec moves approx. 6 km/h. After releasing the  button, the motor stops automatically and switches back to level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



Selection Mode

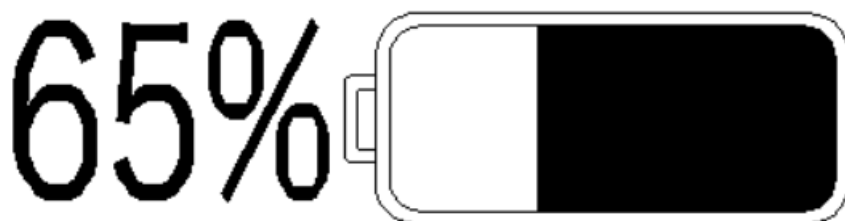
Briefly press the  (0.5s) button to see the different trip modes.

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



Display of battery capacity

The indicator displays the capacity in real time, when battery is fully charged, it shows 100%, if it is less than 5%, then the outline of indicator will flash, that means the battery needs to be charged immediately.



USB charging function



USB charging indicator displays the icon and start to charge, if an external USB device is connected to the display. (max. Voltage is 5v, max. Current is 500 mA)



Bluetooth function

This display can be connected to the Bafang Go APP through Bluetooth.





This display can be connected to the SIGMA heartbeat band and shows it on display, and can also send data to the mobile phone.





SERVICE

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

SETTINGS


After the display is turned on, press the  and  button (>2S) synchronously, to access the “SETTINGS” menu. By pressing the  or  button (<0.5S) , you can select:

Setting, Information or EXIT. Then press the  button (<0.5S) to confirm your selected option.




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

If no button is pressed within 20 seconds, the display will automatically return to the main screen and no data will be saved.









You can synchronously press the  and c button (>2S) at any time, to return to the main screen. By pressing the BACK button in the display or information menu you can get to Settings Selection Menu.

“Setting”







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

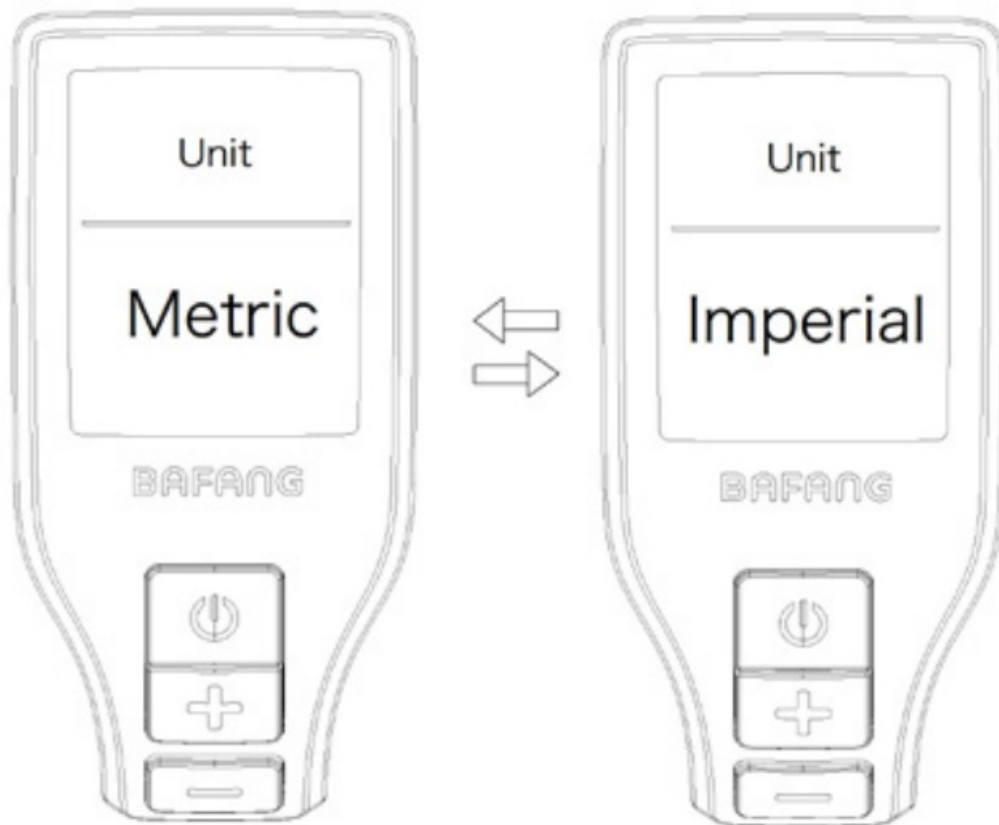


“TRIP Reset” Reset mileage







Press the  or  button (<0.5S) to highlight “TRIP Reset” in the Setting menu, and then press  (<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 “Setting” interface.

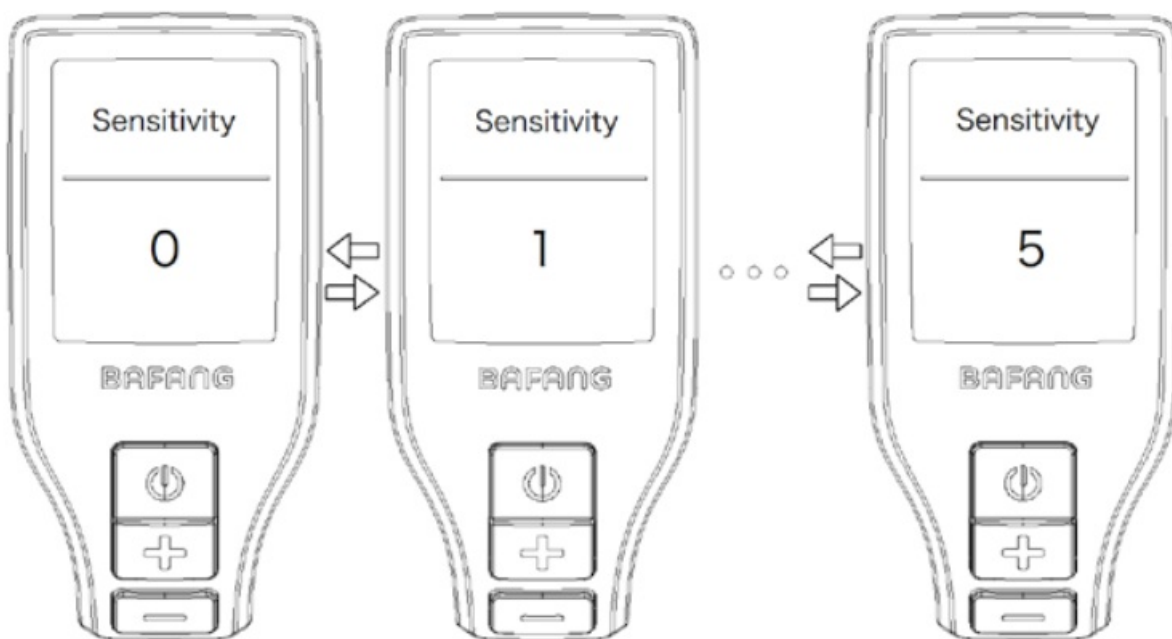
“Unit” Selections in km/Miles

Press the  or  button (<0.5S) to highlight “Unit” in the Setting menu, and then press the  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 “Setting” interface.









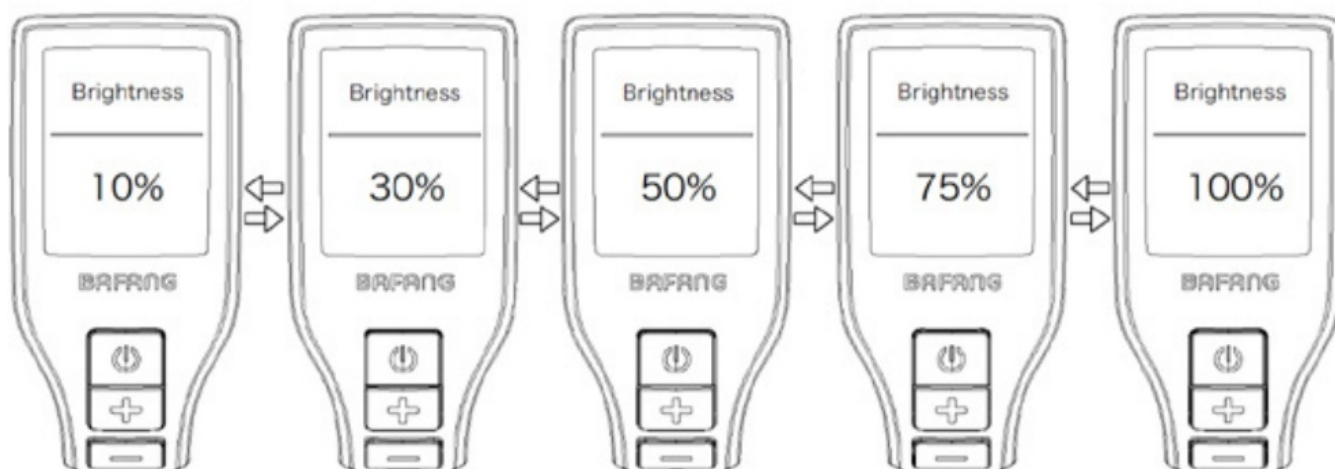
“Sensitivity” Automatic Headlight sensitivity

Press the  or  (<0.5S) button to highlight “Sensitivity” in the Setting menu, and then press  (<0.5S) to select. Then with the  or  button choose between “0” / “1” / “2” / “3” / “4” / “5”. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit to the “Setting” interface.









“Brightness” Display brightness

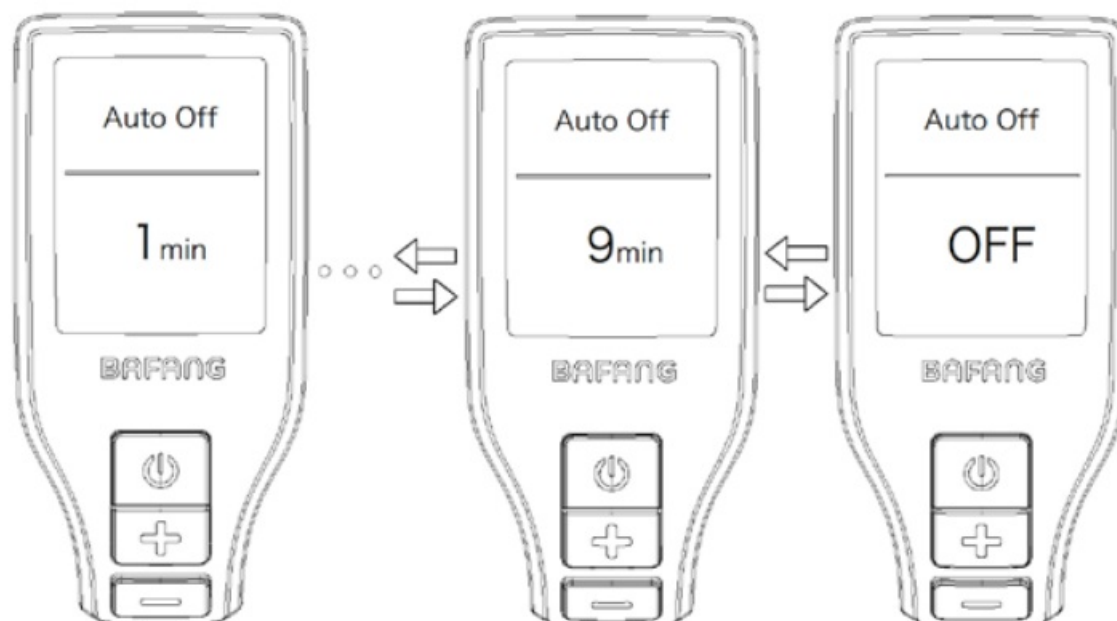
Press the  or  button (<0.5S) to highlight “Brightness” in the Setting menu. Then press  (<0.5S) to select. Then with the  or  button choose between “100%” / “75%” / “50%” / “30%” / “10%”. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit to the “Setting” interface.






“Auto Off” Set Automatic system switch off time




Press the  or  button (<0.5S) to highlight “Auto Off” in the Setting menu, and then press  (<0.5S) to select. Then with the  or  button choose between “OFF”, “9”/“8”/“7”/“6”/“5”/“4”/“3” /“2”/“1”, (Then umbers are measured in minutes). Once you have chosen your desired selection,

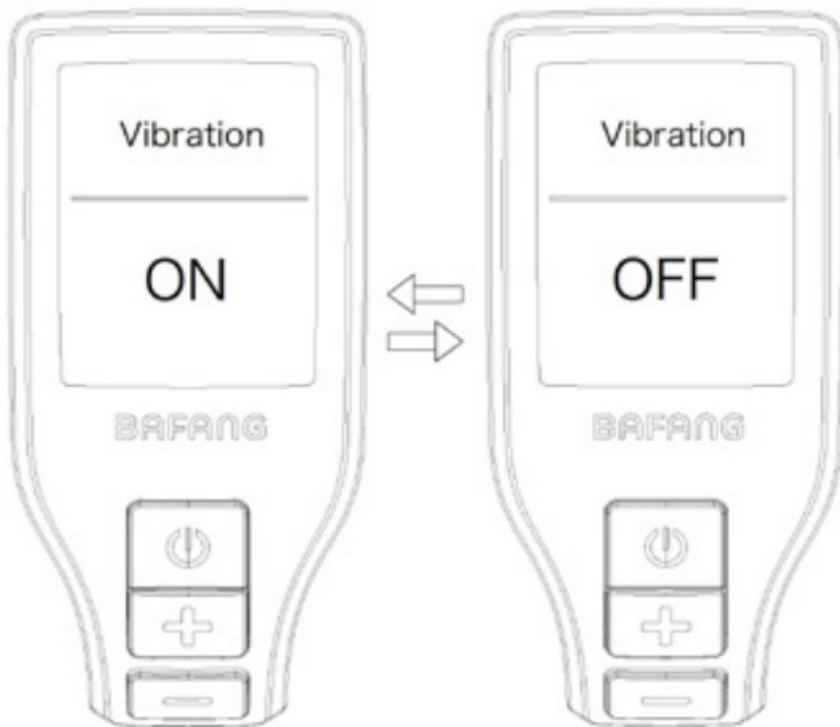
press the  button (<0.5S) to save and exit to the “Setting” interface.









“Vibration” Selection vibration function

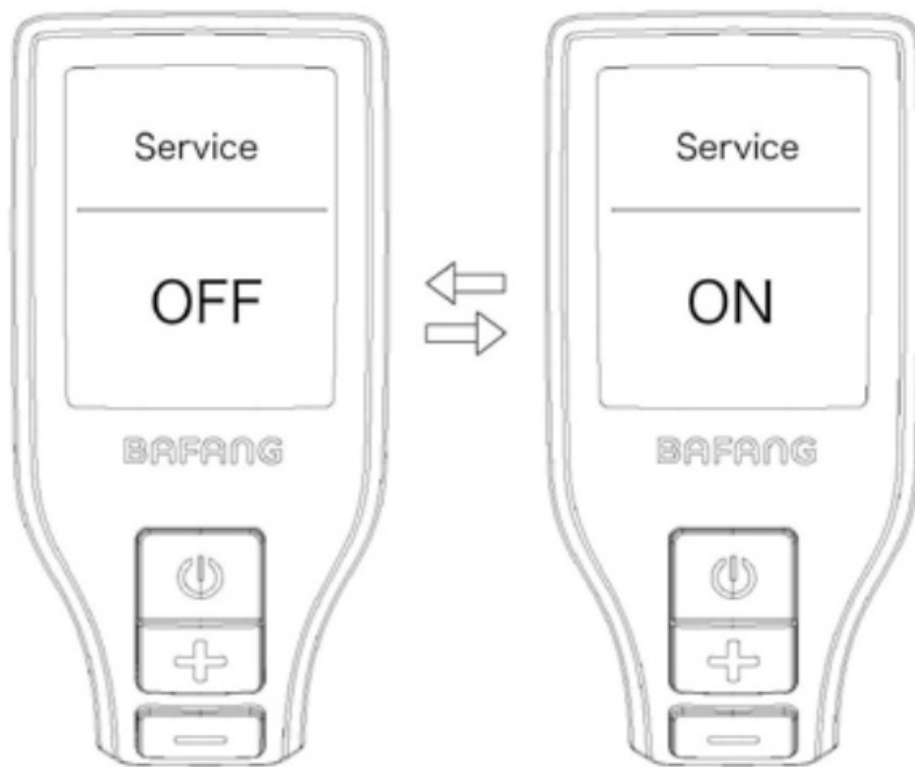
Press the  or  button (<0.5S) to highlight “Vibration” in the Setting menu, and then press  (<0.5S)

to select. Then with the  or  button choose between “ON” and “OFF”. Once you have chosen your desired selection, press the  button (<0.5S) to save and exit to the “Setting” interface.







“Service” Switching the notification on and off

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



“Information”

Once the system is turned on, Press the  and  button (>2S) synchronously, to access the “SETTINGS” menu. Press  or  button (<0.5S) to select “Information”, and then press the button (<0.5S) to confirm your selection.









Wheel Size and Speed Limit

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



Battery Information


Press the  or  button (<0.5S) to highlight "Battery Info." in the Information menu, and then press  (<0.5S) to select. Press the  or  button (<0.5S) to view the battery info. Once you have viewed your desired information, press the  button (<0.5S) to exit to the "Information" interface.

Content	Explanation
b01	Current temperature in degrees (°C)
b04	Total Voltage (V)
b06	Discharge Current (A)
b07	Remaining Capacity (mAh)
b08	Full charged Capacity (mAh)
b09	Default Loader Status (%)
b10	Instant charge (%)
b11	Charging cycles (number)
b12	Maximum time in which no charge was made (Hr)
b13	Last Uncharged Time (Hr)
d00	Total Cell Number (individual)
d01 – d10	Cell Voltage 1 to 10 (mV)
HW	Hardware Version
SW	Software Version

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





Controller Information

Press the  or  button (<0.5S) to highlight “Ctrl Info”, and then press the  button (<0.5S) to confirm.

Once you have viewed your desired information press the  button(<0.5S) to exit to the “Information” interface.







Display Information

Press the  or  button (<0.5S) to highlight "Display Info", and then press the  (<0.5S) button to confirm. Once you have viewed your desired information press the  button (<0.5S) to exit to the "Information" interface.







Torque Information

Press the  or  button (<0.5S) to highlight "Torque Info", and then press the  (<0.5S) button to confirm. Once you have viewed your desired information press the  button (<0.5S) to exit to the "Information" interface.



Error Code

Press the  or  (<0.5S) button and select "Error Code", and then press the  button (<0.5S) to confirm. It shows error information for the last ten errors of the pedelec. Error code "00" means that there is no

error. Once you have viewed your desired information press the  button (<0.5S) to exit to the "Information" interface.



ERROR CODE DEFINITION

The display can show the errors of a pedelec. If an error is detected, the error code appears on the display and 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">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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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.
14	The protection temperature inside the controller has reached its maximum protection value	<ol style="list-style-type: none"> 1. Turn off the system and let the pedelec cool down. 2. If the problem persists, please contact your retailer.
15	Error with the temperature sensor inside the controller	Please contact your retailer.
21	Speed sensor Error	<ol style="list-style-type: none"> 1. Restart the system 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. 3. Check that the speed sensor connector is connected correctly. 4. If the error persists, please contact your retailer.

25	Torque signal Error	<ol style="list-style-type: none"> 1. Check that all connections are connected correctly. 2. If the error persists, please contact your retailer.
26	Speed signal of the torque sensor has an error	<ol style="list-style-type: none"> 1. Check the connector from the speed sensor or to make sure it is connected correctly. 2. Check the speed sensor for signs of damage. 3. If the problem persists, please contact your retailer.
27	Overcurrent from controller	Please contact your retailer.
30	Communication problem	<ol style="list-style-type: none"> 1. Check all connections are correctly connected. 2. If the error persists, please contact your retailer.
33	Brake signal has an error (If brake sensors are fitted)	<ol style="list-style-type: none"> 1. Check all connectors. 2. If the error continues to occur, please contact your retailer.
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>BAFANG DP C231.CAN E-Bike LCD Display [pdf] User Manual</p> <p>DP C231.CAN E-Bike LCD Display, DP C231.CAN, E-Bike LCD Display, Bike LCD Display, LCD Display, Display</p>
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