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BAFANG DP C07.CAN LCD Display CAN User Manual

Contents

BAFANG DP C07.CAN LCD Display CAN

Product Information

The DP C07.CAN is a display unit designed for use with a pedelec. It provides important information and control options for the pedelec system. The display features a clear and easy-to-read screen, with various functions and settings available.

Specifications

- Display of battery capacity in real-time
- Kilometer stand, daily kilometers (TRIP), total kilometers (TOTAL)
- Indication of headlights/backlighting status
- Walking assistance feature
- Speed unit and digital speed display
- Speed mode options: top speed (MAXS) and average speed (AVG)
- An error indicator for troubleshooting
- Data display corresponding to the current mode
- Support level selection

Key Definitions

- Up: Increase value or navigate up
- Down: Decrease value or navigate down
- Light On/Off: Toggle headlights or backlighting
- System On/Off: Turn the system on or off
- OK/Enter: Confirm selection or enter the menu

Product Usage Instructions

Switching the System ON/OFF

To turn on the system, press and hold the System On/Off button on the display for more than 2 seconds. To turn off the system, press and hold the System On/Off button again for more than 2 seconds. If the automatic shutdown time is set to 5 minutes, the display will automatically turn off within that time when not in use.

Selection of Support Levels

When the display is turned on, press and hold the button for 2 seconds to turn off the headlight and the display backlight. The brightness of the backlight can be adjusted in the display settings. If the display is turned on in a dark environment, the display backlight and headlight will automatically be switched on. If manually switched off, the automatic sensor function is deactivated.

Battery Capacity Indication

The battery capacity is shown on the display with ten bars. Each full bar represents the remaining capacity of the battery in percentage. If the frame of the indicator blinks, it means the battery needs to be charged.

Walk Assistance

The walk assistance feature can only be activated when the pedelec is in a stationary position. To activate it, briefly press the designated button.

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 underwater.
- 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 surfaces.
- Warranty is not included due to wear and normal use and aging.

INTRODUCTION OF DISPLAY

- **Model:** DP C07.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.

PRODUCT DESCRIPTION

Specifications

- **Operating temperature:** -20℃~45℃
- **Storage temperature**: -20℃~50℃
- **Waterproof:** IP65
- **Bearing humidity:** 30%-70% RH

Functional Overview

- Speed display (including speed in real time (SPEED), top speed (MAXS) and average speed (AVG), switching between km and miles)
- Battery capacity indicator
- Automatic sensors explanation of the lighting system
- Brightness setting for backlight
- Indication of performance support
- Walk assistance

- Kilometer stand (including single-trip distance, total distance)
- Display for the remaining distance.(Depends on your riding style)
- Motor output power indicator
- Energy consumption indicator CALORIES
    - **(Note:** If the display has this function)
- Error messages view
- Service

DISPLAY
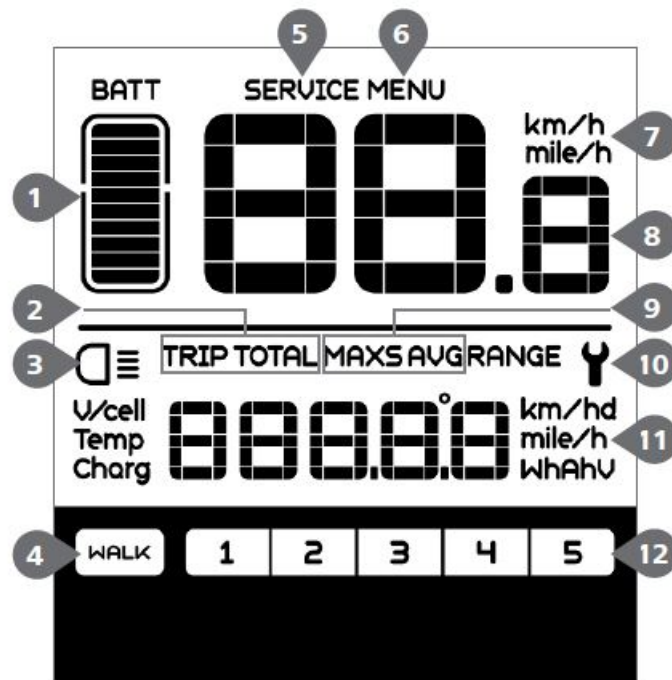
1. Display of battery capacity in real time.
2. Kilometer stand, Daily kilometers (TRIP) – Total kilometers (TOTAL).
3. The display shows ⌀≣ this symbol if the light is on.
4. Walking assistance WALK .
5. Service: please see the service section.
6. Menu.
7. Speed unit.
8. Digital speed display.
9. Speed mode , top speed (MAXS) – Average speed (AVG).
10. Error indicator 🔧.
11. **Data:** Display data, which corresponds to the current mode.
12. Support level

KEY DEFINITION

NORMAL OPERATION

Switching the System ON/OFF

Press and hold ⏻ on the display to turn on the system. Press and hold ⏻ 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.

Selection of Support Levels

When the display is turned on, press + or − the or button to switch to the support level, the lowest level is 1, and the highest level is 5. When the system is switched on, the support level starts in level 1. There is no support at level null.

Selection mode

Briefly press i the button to see the different trip modes. Trip: daily kilometers (TRIP) – total kilometers (TOTAL) – Maximum speed (MAXS) – Average speed (AVG) – Remaining distance (RANGE) – Output power (W) – Energy consumption (C (only with torque sensor fitted)).
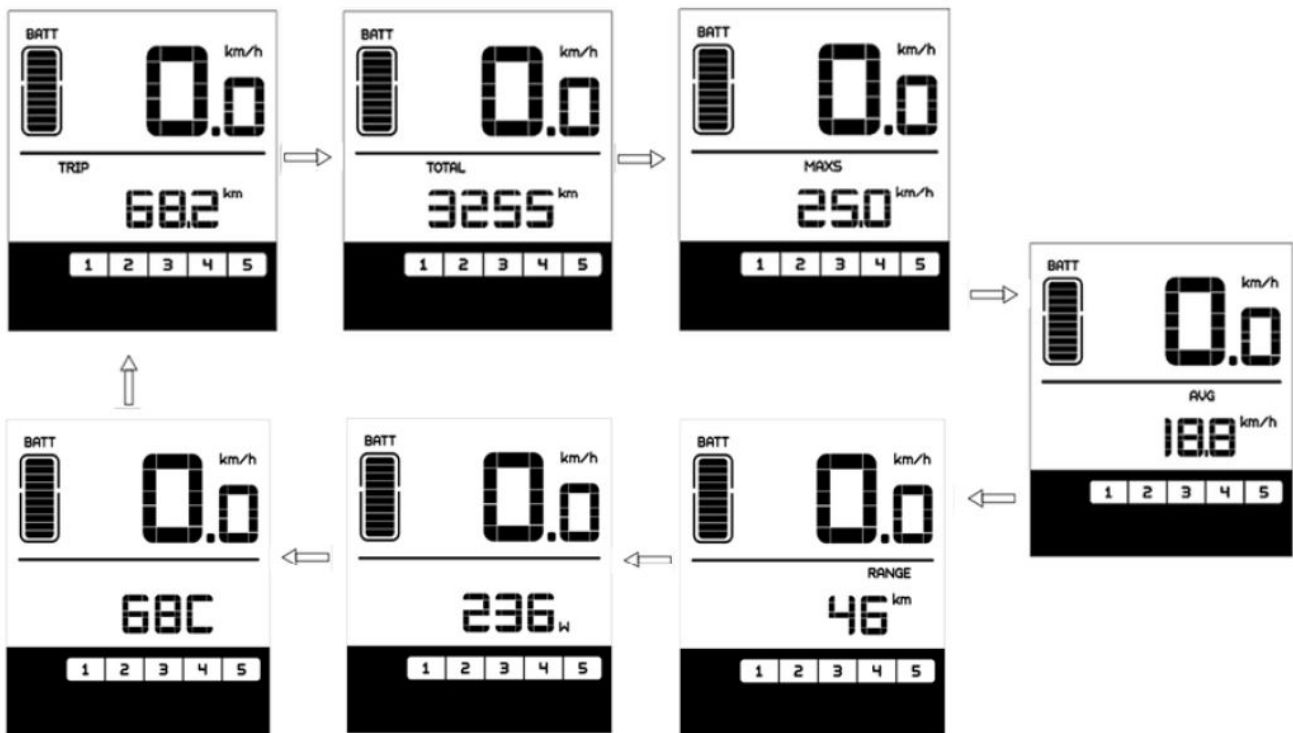
Headlights/backlighting

Hold ⬡ the button to activate the headlight and the display backlight.

Hold ⬡ the button again to turn off the headlight and the display backlight. The brightness of the backlight can be set in the display settings "Brightness". (If the display /Pedelec 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.)
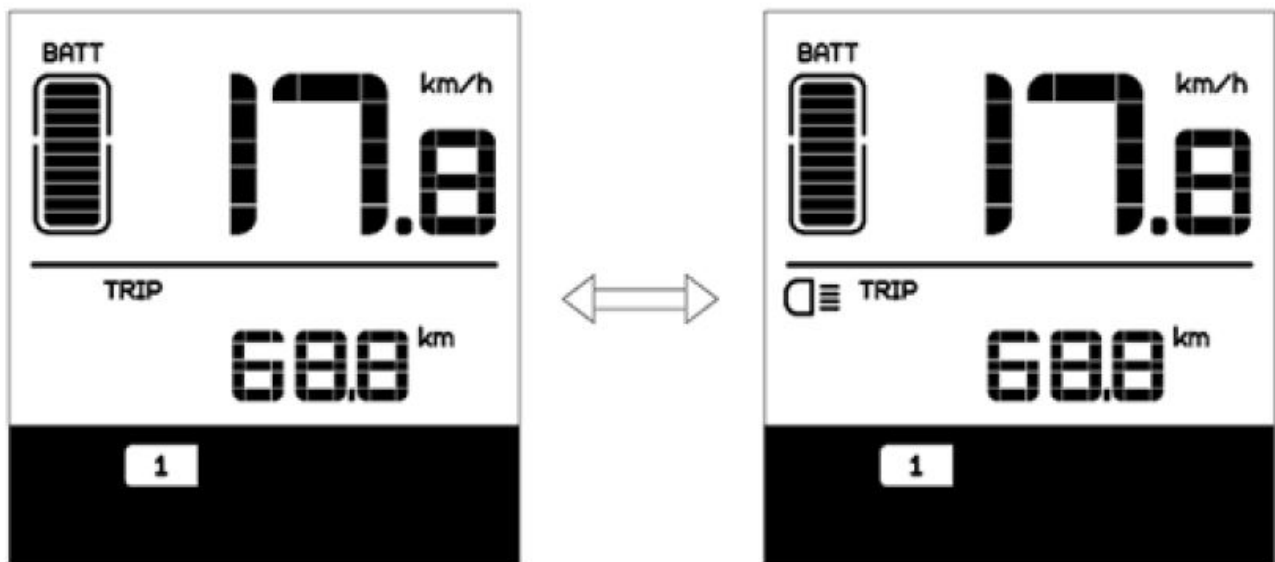
Walk Assistance
The Walk assistance can only be activated with a standing pedelec.

Activation: Briefly press (<0.5S) the button until to level null, and then press (<0.5s) the button, and the WALK symbol is displayed. Now hold down the button and the Walk assistance will activate. The symbol

 will flashes and the pedelec moves approx. 4.5 km/h. After releasing the button, the motor stops automatically and switches back to level null (if no any option be activated in 5 seconds). If no speed signal is detected, it shows 2.5km/h.
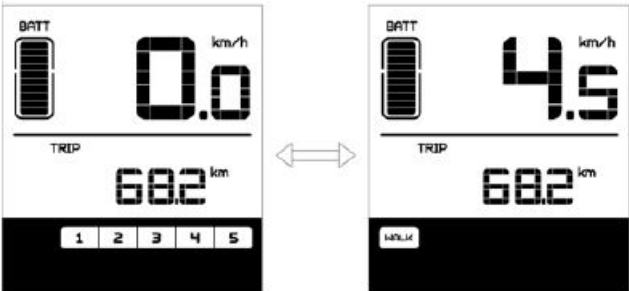
Battery capacity indication

The battery capacity is showed in ten bars. Each full bar represents a remaining capacity of the battery in a percentage, if the frame of indicator blinks that means to charge. (as shown in the figure below):
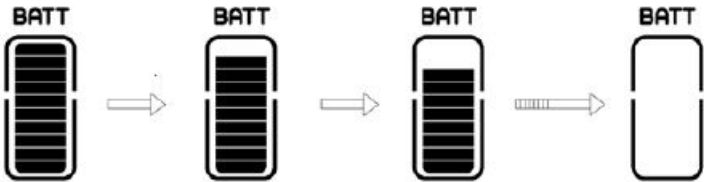

Bars	Charge in Percentage
10	≥90%
9	80%≤C<90%
8	70%≤C<80%
7	60%≤C<70%
6	50%≤C<60%
5	40%≤C<50%
4	30%≤C<40%
3	20%≤C<30%
2	10%≤C<20%
1	5%≤C<10%
Blinking	C≤5%

SETTINGS

After the display is turned on, quickly press the button twice to access the "MENU" interface. pressing the or button, you can select and reset the options. Then press the button twice to confirm your selected option and return to the main screen. If no button is pressed within 10 seconds in the "MENU" interface, the display will automatically return to the main screen and no data will be saved.
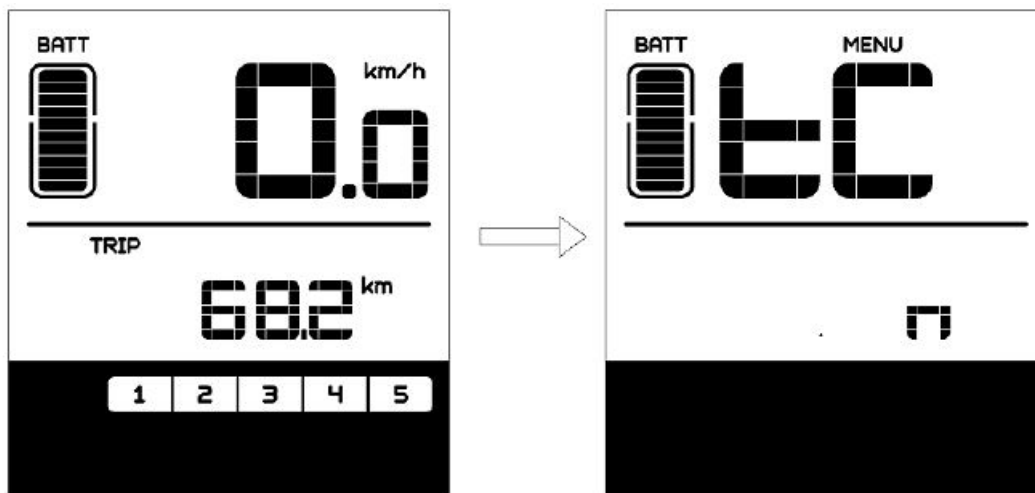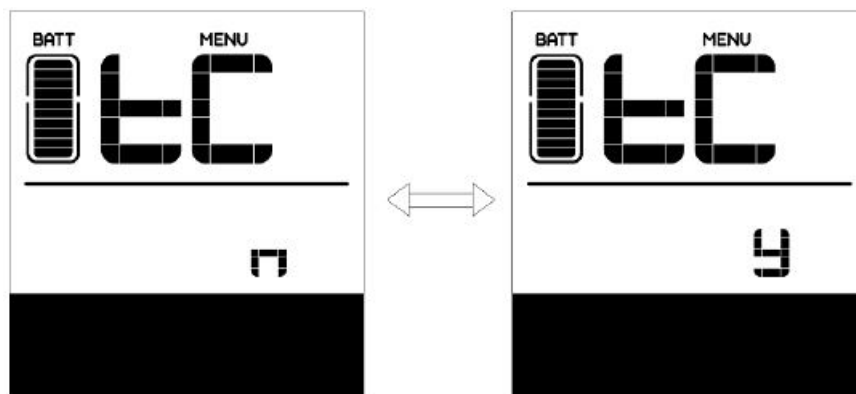
Reset mileage

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface and "tC" appears on the display (as shown below). Now using the [+] or [−] button, choose between "y"(YES) or "n"(NO). If choose "y", the Daily kilometers (TRIP), Maximum speed (MAX) and Average speed (AVG) will be reset. Once you have chosen your desired selection, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to save and enter the next item "Selection of unit in km/Miles".

**NOTE:** If the daily kilometers accumulate 99999km, the daily kilometers will be reset automatically

Selection of unit in km/Miles

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and repetitively press the [i] button until the "S7" appears on the display (as shown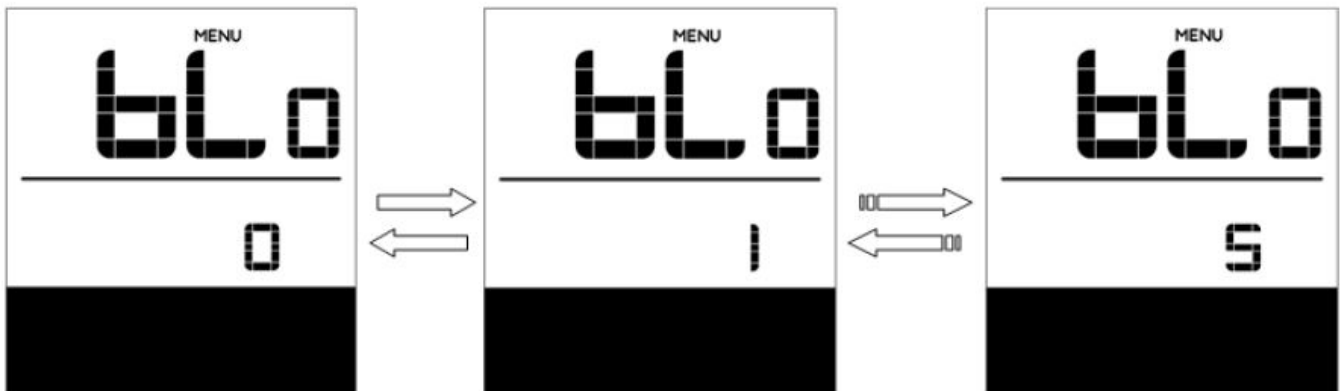 below). Now using the [+] or [−] button, choose between "km/h" or "mile/h". Once you have chosen your desired selection, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to save and enter the next item "Set light sensitivity".
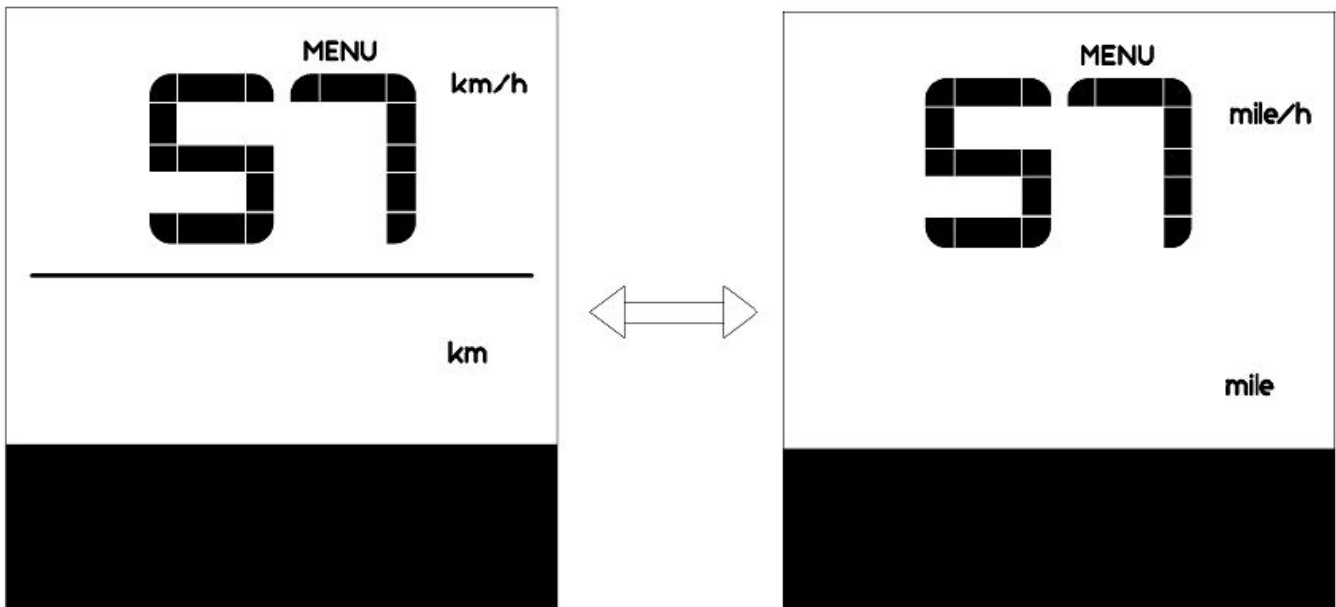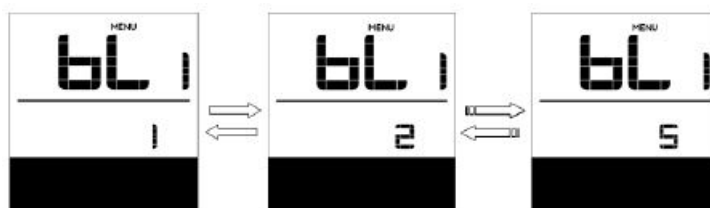
Set light sensitivity

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and

repetitively press the button until the "bL0" appears on the display (as shown below). And then press [+] to

increase [−] or to reduce (light sensitivity for 0-5). Chose 0 means turn off the light sensitivity. Once you have

chosen your desired selection, press (<0.3S) [i] the button twice to save and return to the main screen, or

you can press (<0.3S) [i] the button once to save and enter next item "Set display brightness".

Set display brightness

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and

repetitively press the [i] button until the "bL1" appears on the display (as shown below). And then press to

increase [+] [−] or to reduce (brightness for 1-5). Once you have chosen your desired selection, press

(<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the

button once to save and enter next item "Set Auto Off".

Set Auto Off

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and

repetitively press the [i] button until the "OFF" appears on the display (as shown below). And then press

[+] to increase or to [−] reduce (brightness for 1-9minute). Once you have chosen your desired selection,

press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to save and enter next item "Service Tip".

Service Tip
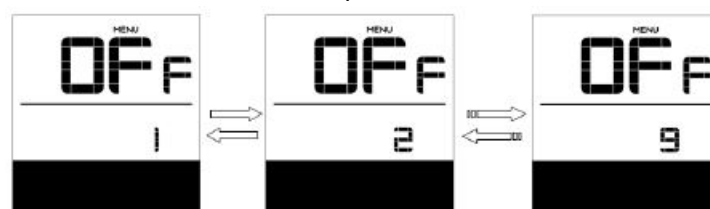
When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface,

repetitively press the button [i] until the "nnA" appears on the display (as shown below). And then press to

choose between0 [+] or [−] Choose 0 means turn off the notification. Once you have chosen your desired

selection, press (<0.3S) [i] the button twice to save and return to the main screen.

NOTE: If the "Service" function switch on, every 5000 km (the mileage of more than 5000 km) the indicator "" is displayed every time at switch on.

View Information
All data in this item cannot be changed, only to be viewed.
Wheel Size
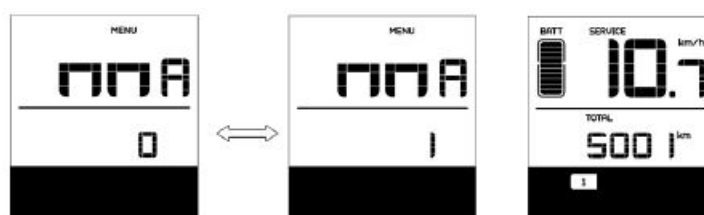
When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and

repetitively press [i] the button until the "LUd" appears on the display (as shown below). Once you have

viewed your desired information, press (<0.3S) [i] the button twice to return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "Speed Limit".

Speed Limit

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, repetitively press [i] the button until the "SPL" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "Controller hardware info".

Controller hardware info

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and repetitively press [i] the button until the "CHc (Controller Hardware check)" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "Controller software info".
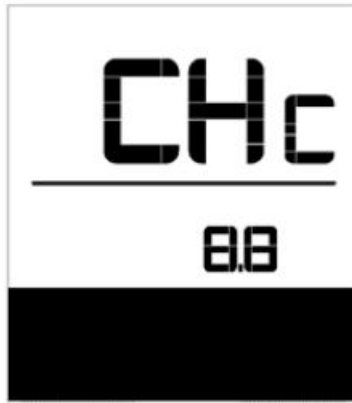
CHc

8.8

Controller software info

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, repetitively press [i] the button until the "CSc (Controller Software check)" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "Display hardware info".

CSc

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Display hardware info

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and repetitively press [i] the button until the "dHc (Display Hardware check)" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "Display software info".

dHc

8.8

Display software info

When the system is on, quickly press(<0.3S) [i] the button twice to access the "MENU" interface, and repetitively press [i] the button until the "dSc (Display Software check)" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "BMS hardware info".

dSc

888

BMS hardware info

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and repetitively press [i] the button until the "bHc (BMS Hardware check)" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to enter the next item "BMS software info".
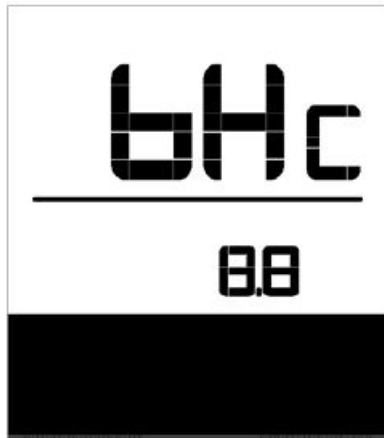
BMS software info

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, repetitively press [i] the button until the "dSc (Display Software check)" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "Sensor hardware info".
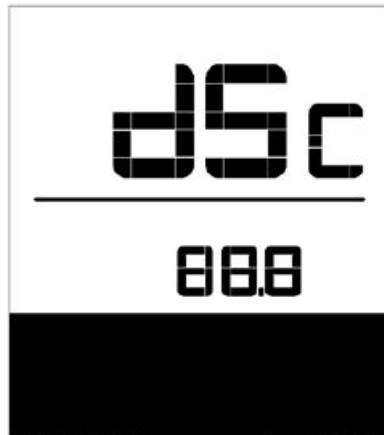

Sensor hardware info

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, repetitively press [i] the button until the "SHc (Sensor Hardware check)" appears on the display (as shown below). Once you have viewed your desired information, press (<0.3S) [i] the button twice to save and return to the main screen, or you can press (<0.3S) [i] the button once to enter next item "Sensor software info".

**NOTE:** This information is not displayed, if there are no torque sensor in the drive system.

Sensor software info

When the system is on, quickly press (<0.3S) ⓘ the button twice to access the "MENU" interface, and

repetitively press ⓘ the button until the "SSc (Sensor Software check)" appears on the display (as shown

below). Once you have viewed your desired information, press (<0.3S) ⓘ the button twice to save and

return to the main screen, or you can press (<0.3S) ⓘ the button once to enter the next item "Battery info".

NOTE: This information is not displayed, if there are no torque sensor in the drive system.

Battery Information

When the system is on, quickly press (<0.3S) ⓘ the button twice to access the "MENU" interface,

repetitively press ⓘ the button until the "b01" appears on the display (as shown below). You can briefly

press (0.3s) ⓘ to view all information of the battery. Once you have viewed your desired information, press

(<0.3S) ⓘ the button twice to save and return to the main screen, or you can press (<0.3S) ⓘ the
button once to enter next item "Message of Error Code".

Content	Explanation
b01	Current temperature (°C)
b04	Voltage (V)
b06	Discharge (A)
b07	Remaining Capacity (A/h)
b08	Total Capacity (A/h)

Content	Explanation
b09	Relative SOC (%)
b10	Absolute SOC (%)
b11	Charging cycles (number)
b12	Maximum not charging time (Hr)
b13	Recently not charging time (Hr)
d00	Number of battery cell
d01	Voltage of cell 1 (m/V)
d02	Voltage of cell 2 (m/V)
dn	Voltage of cell n (m/V)

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

The message of Error Code

When the system is on, quickly press (<0.3S) [i] the button twice to access the "MENU" interface, and repetitively press [i] the button until the "E00" appears on the display (as shown below). You can briefly press (0.3s) [i] to view last ten Error Code "EO0" to "EO9". Error code "00" means that there is no error.

Once you have viewed your desired information, press (<0.3S) [i] the button twice to save and return to the main screen.

ERROR CODE DEFINITION

The display can show the errors of a pedelec. If an error is detected, the wrench icon ⊻ 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.	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 maxi- mum protection value	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	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	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	1. Check the connector from the speed sensor 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	1. Check all connections are correctly con- nected. 2. If the error persists, please contact your retailer.
33	Brake signal has an error (If brake sensors are fitted)	1. Check all connectors. 2. If the error continues to occur, please con- tact your retailer.

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	The total voltage from the battery is too high	Please contact your retailer.
42	The total voltage from the battery is too low	Please contact your retailer.
43	The total power from the battery cells is too high	Please contact your retailer.
44	The voltage of the single cell is too high	Please contact your retailer.
45	The 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	The SOC of the battery is too high	Please contact your retailer.
48	The SOC of the battery is too low	Please contact your retailer.
61	Switching detection defect	Please contact your retailer. (only with this function)
62	The electronic derailleur cannot release.	Please contact your retailer. (only with this function)
71	The electronic lock is jammed	Please contact your retailer. (only with this function)
81	The Bluetooth module has an error	Please contact your retailer. (only with this function)

Documents / Resources

BAFANG DP C07.CAN LCD Display CAN [pdf] User Manual
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Manuals+,