



BAFANG DP C241 E-Bike LCD Display User Manual

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DISPLAY

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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.

INTRODUCTION OF DISPLAY

- Model: DP C241.CAN BUS
- The housing material is PC; the display windows is made of ACRYLIC material:
- 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°C~45°C
Storage temperature: -20°C~50°C

• Waterproof: IP65

• Storage room Humidity: 30%-70% RH

Functional Overview

- Speed indication (including the real-time speed, max. speed and average speed)
- · Unit switching between km and mile
- Battery capacity indicator
- Automatic sensors explanation of the lighting system
- · Brightness setting for backlight
- · Indication of performance support
- Kilometer stand (including single-trip distance, total distance and remaining distance)
- BOOST function (NOTE: it needs the controller has this function)
- · Indication of power assistance level
- · Time indication for ride
- · Input power of motor indication
- · Walk assistance
- Indication for error messages
- Indication for consumption of energy CALORIES (NOTE: If the controller has this function)
- Indication for the remaining distance. (NOTE: it needs the controller has this function)

- · Button vibration setting
- USB charging (5V and 500mA)
- Dual Bluetooth communication function

DISPLAY



- 1. Headlight indication
- 2. USB connection indication
- 3. Bluetooth indicator
- 4. Battery capacity indication
- 5. Speed display in real-time
- 6. Assistance level indication
- 7. Multiple data indication

KEY DEFINITION

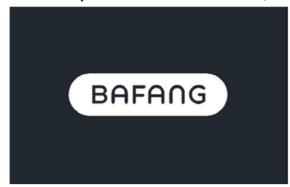


NORMAL OPERATION

Switching the System ON/OFF

Press and hold (>2S) to power on the display, the HMI begin to show the boot up LOGO. Press (>2S) again can power off the HMI.

If the "automatic shutdown" time is set to 5 minutes (it can be set in function "Auto Off"), the HMI will be automatically turned off within this set time, When it is not operated.



Selection of Support Levels

When HMI power on, briefly press or to select the assistance level (the number of assistance level needs to be adapted to controller), The lowest level is Level 0, the highest Level is 5. On the default is Level 1, "0" means no power assistance. The interface is as following:



Note: if the controller has Boost function, can be selected this level with briefly press .

Selection Mode

Briefly press button to view the different mode and information.

- 1. System with torque sensor, circularly show single trip distance (TRIP,km) → total distance (ODO,km)
 - → maximum speed (MAX,km/h) → average speed (AVG,km/h) → remaining distance (RANGE,km)
 - \rightarrow energy consumption (CALORIES/CAL,KCal) \rightarrow real-time output power (POWER,w) \rightarrow riding time (TIME,min).
- 2. If system with a speed sensor, circularly show single trip distance (Trip,km) → total distance (ODO,km) → maximum speed (MAX,km/h) → average speed (AVG,km/h) → remaining distance (RANGE,km) → riding time (TIME,min)



Headlights / backlighting

Press and hold (>2S) to turn on the backlight as well as headlight.

Press and hold (>2S) again to turn off the backlight and the headlight. The brightness of backlight can be set in function "Brightness". (If the display is turned on in a dark environment, the display backlight/ headlight will be turned on automatically. If the display backlight/headlight are turned off manually, they also need to be turned on manually afterwards)



Walk Assistance

The Walk assistance can only be activated with a standing pedelec. Activation: briefly press button until the

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 if no any operations within 5s will automatically return to 0 level (as following).



BOOST Function

USER MANUAL FOR DISPLAY In riding, when speed is arrived 25km/h, can select in BOOST level, at this point

press $\stackrel{ extbf{ extit{B}}}{ extbf{ extit{B}}}$ button and hold (>2S), then the Pedelec enters in BOOST function. The indicator $\stackrel{ extbf{ extbf{E}}}{ extbf{ extit{B}}}$ on displa

flash and the motor output with max. power. (BOOST function as following). If release the button or do any other operation will stop BOOST.

NOTE: If the speed is not arrived 25km/h, this function can not be implemented and press (>2S) the HMI can powered off.

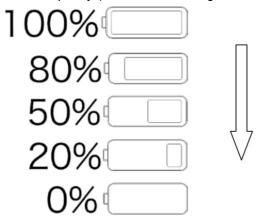


button and hold



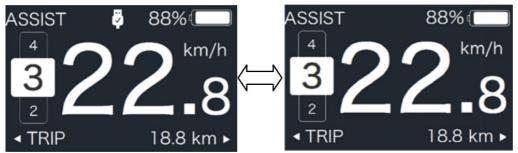
Battery Capacity Indication

The percentage of current battery capacity and total capacity is displayed from 100% to 0% according to the actual capacity (as shown in the figure below)



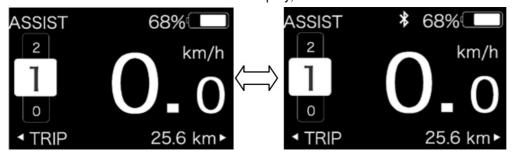
USB Charge Function

When the HMI is off, insert the USB device to the USB charging port on the HMI, and then turn on HMI to charge. When the HMI is on, can direct charge for USB device. the maximum charging voltage is 5V and the maximum charging current is 500mA.

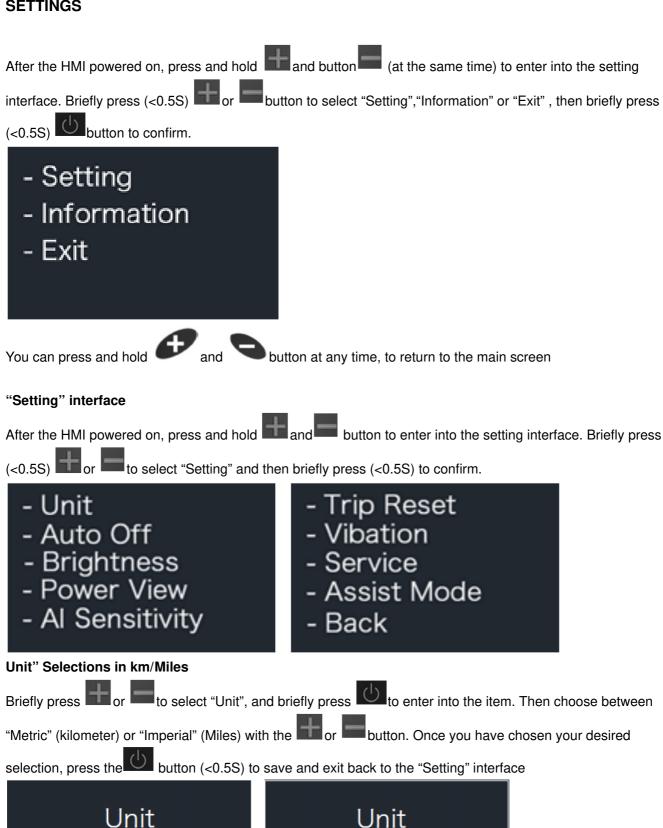


Bluetooth Function

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.



SETTINGS





Unit **Imperial**

Auto Off" Set automatic Off time

to select "Auto Off", and briefly press to enter into the item. Then select the

automatic Off time as "OFF "/"9"/"8"/"7"/"6"/"5"/"4"/"3"/"2"/"1" with the or button. Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Setting" interface.

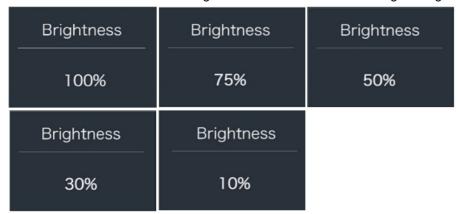
Notice: "OFF" means this function is off, the unit is minute.



Brightness" Display brightness

Briefly press or to select "Brightness", and briefly press to enter into the item. Then select the percentage as "100%" / "75%" / "50%" / "30%" / "10%" with the or button. Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Setting" interface.

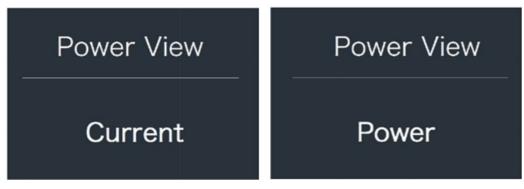
Notice: "10%" is the weakest brightness and 100%" is the strongest brightness.



Power View" Set output display mode

Briefly press or to select "Power View", and briefly press to enter into the item. Then select the output display mode as "Power"/"Current" with the

Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Setting" interface.

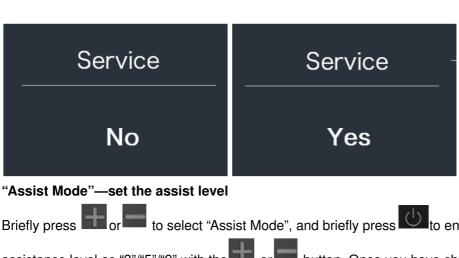


"AL Sensitivity" Set light sensitivity

Briefly press or to select "AL Sensitivity", and briefly press to enter into the item. Then select the

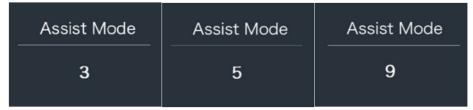
level of the light sensitivity as "0"/"1"/ "2"/"3"/"4"/"5" with the or button. Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Setting" interface. Notice: "0" means light sensor is off. Level 1 is the weakest sensitivity and level 5 is the strongest sensitivity Al Sensitivity Al Sensitivity Al Sensitivity 0 "TRIP Reset" Set reset function for single-trip Briefly press or to select "TRIP Reset", and briefly press to enter into the item. Then select "NO"/"YES" ("YES"- to clear, "NO"-no operation) with the button. Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Setting" interface. Notice: The riding time(TIME), average speed (AVG) and maximum speed (MAXS) will be reset simultaneously when you reset TRIP Trip Reset Trip Reset Yes No "Vibration" Set the button vibration Briefly press or to select "Vibration", and briefly press to enter into the item. Then select "NO"/"YES" ("YES" means vibration button is on; "NO" means vibration button is off) with the or button. Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Setting" interface. Vibration Vibration No Yes "Service" Turn on/off the Service indication to select "Service", and briefly press to enter into the item. Then select "NO"/"YES"

Briefly press or to select "Service", and briefly press to enter into the item. Then select "NO"/"YES" means Service indication is on; "NO" means Service indication is off) with the or button. Once you have chosen your desired selection, press the button (<0.5S) to save and exit back to the "Setting" interface.



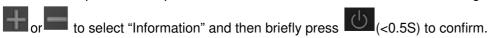
to select "Assist Mode", and briefly press to enter into the item. Then select the assistance level as "3"/"5"/"9" with the button. Once you have chosen your desired selection, press

the button (<0.5S) to save and exit back to the "Setting" interface



"Information"

After the HMI powered on, press and hold and to enter into the setting function. Briefly press (<0.5S)

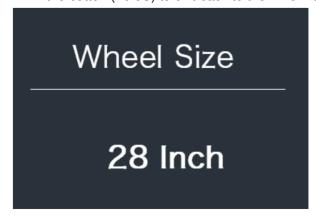


- Wheel Size
- Speed Limit
- Battery Info
- Display Info
- Controller Info
- Display Info
- Controller Info
- Torque Info
- Error Code
- Back

Note: All information here cannot be changed, it is to be viewed only

"Wheel Size"

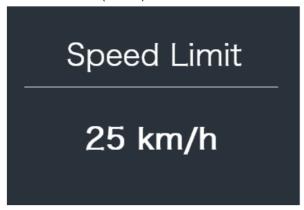
Briefly press or to view the wheelsize default. Press the button (<0.5S) to exit back to the "Information" interface.



"Speed Limit"

Briefly press or to select "Speed Limit", and then briefly press to view the speed limit default. Press

the button (<0.5S) to exit back to the "Information" interface



"Battery Info"

Briefly press or to select "Battery Info", and briefly press to enter, then briefly press or view the battery data (b01 \rightarrow b04 \rightarrow b06 \rightarrow b07 \rightarrow b08 \rightarrow b09 \rightarrow b10 \rightarrow b11 \rightarrow b12 \rightarrow b13 \rightarrow d00 \rightarrow d01 \rightarrow d02 \rightarrow ... \rightarrow dn \rightarrow Hardware Ver \rightarrow Software Ver). Press the button (<0.5S) to exit back to the "Information" interface.

Notice: If the battery doesn't have communication function, you won't see any data from battery.



View the battery information



View the hardware and software version of battery



Code	Code Definition	Unit
b01	Current temperature	°C
b04	Battery voltage	mV
b06	Current	mA
b07	Remaining battery capacity	mAh
b08	Battery capacity of Full charged	mAh
b09	Relative SOC	%

Code	Code Definition	Unit
b10	Absolute SOC	%
b11	Cycle Times	times
b12	Max Uncharge Time	Hour
b13	Last Uncharge Time	Hour
d00	The number of cell	
d01	Voltage Cell 1	mV
d02	Voltage Cell 2	mV
dn	Voltage Cell n	mV
Hardware Ver	Battery Hardware Version	
Software Ver	Battery Software Version	

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

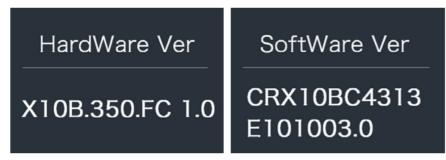
"Display Info"

Briefly press or to select "Display Info", and briefly press to enter, briefly press or to view"Hardware Ver" or "Software Ver". Press the button (<0.5S) to exit back to the "Information" interface.



"Ctrl Info"

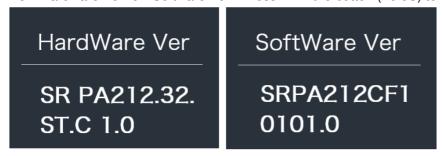
Briefly press or to select "Ctrl Info", and briefly press to enter, briefly press or to view"Hardware Ver" or "Software Ver". Press the button (<0.5S) to exit back to the "Information" interface.



"Torque Info"



view"Hardware Ver" or "Software Ver". Press the button (<0.5S) to exit back to the "Information" interface.



NOTE: If your Pedelec doesn't have torque sensor, "-" will be displayed.

"Error Code"

Briefly press or to select "Error Code", and then briefly press to enter, briefly press to enter, briefly press to enter, briefly press to enter, briefly press to enter briefly press

view message of error for last ten times by "E-Code00" to "E-Code09". Press the button (<0.5S) to exit back to the "Information" interface.

NOTE: 00 means no error exist



ERROR CODE DEFINITION

The HMI can show the faults of Pedelec. When a fault is detected, one of the following error codes will be indicated too.

Note: Please read carefully the description of the error code. When the error code appears, please first restart the system. If the problem is not eliminated, please contact your dealer or technical personnel.

Error	Declaration	Troubleshooting
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Check the connector of throttle whether they ar e correctly connected.
Disconnect the throttle, If the problem still occur s, please contact your retailer.(only with this fun ction)
Check the throttle can adjust back into its correct p osition, if the situation does not improve, please ch ange to a new throttle.(only with this function)
 Remove the battery Re-Insert the battery If the problem persists, please contact your retailer.
Please contact your retailer.
Please contact your retailer.
 Turn off the system and allow the Pedelec to co ol down. If the problem persists, please contact your retailer.
the motor ha Please contact your retailer.
the controller Please contact your retailer.
or inside of t Please contact your retailer.
1. Turn off the system and let the pedelec cool down protection va 2. If the problem persists, please contact your retailer.
Please contact your retailer.

21	Speed sensor Error	 Restart the system 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. Check that the speed sensor connector is connected correctly If the error persists, please contact your retailer.
25	Torque signal Error	 Check that all connections are connected correctly. If the error persists, please contact your retailer.
26	Speed signal of the torque sensor has an err or	 Check the connector from the speed sensor to make sure it is connected correctly. Check the speed sensor for signs of damage. If the problem persists, please contact your retailer.
27	Overcurrent from controller	Please contact your retailer.
30	Communication problem	 Check all connections are correctly con- nected. If the error persists, please contact your retailer.
33	Brake signal has an error (If brake sensors a re fitted)	 Check all connectors. If the error continues to occur, please con- tact 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



BAFANG DP C241 E-Bike LCD Display [pdf] User Manual DP C241, DP C241 E-Bike LCD Display, E-Bike LCD Display, LCD Display, Display

Manuals+,