



BAFANG DP C271.CAN Display User Manual

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BAFANG

BAFANG DP C271.CAN Display



Product Information

Introduction

The DP C271.CAN is a display unit that provides information on the electric bike's performance and assists in controlling its settings. It has a range of features such as headlights, a USB charging function, and walking assistance.

Product Description

The display unit shows real-time information such as battery capacity, speed, distance traveled, and support level. It has a maintenance indicator, Bluetooth indicator, and time indication. The display unit also has different modes for daily kilometers, total kilometers, maximum speed, average speed, range, cadence, travel time, and energy consumption. It is compatible with pedelec systems.

Functional Overview

The display unit has a range of functions such as switching the system on/off, selecting support levels, and activating walk assistance. It also has a key definition for headlight, up, down, mode, and system on/off.

Important Notice

Please keep the QR code label attached to the display cable as the information from the label is used for a later possible software update.

Product Usage Instructions

Switching the System ON/OFF

To switch on the system, press and hold (>2S) on the display. To switch off the system, press and hold (>2S) again. If the automatic shutdown time is set to 5 minutes, 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 (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/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. To activate, press the button until the symbol appears. Next, hold down the button while the symbol is displayed. Now the Walk assistance will activate. The symbol will flash, and the pedelec moves approximately 6 km/h. After releasing the button, the Walk assistance will stop.

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

INTRODUCTION OF DISPLAY

- Model: DP C271.CAN BUS
- The housing material is PC, the window is high hardness glass, as follows:
- The label marking is as follows:

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.
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INTRODUCTION OF DISPLAY

- Model: DP C271.CAN BUS
- The housing material is PC, the window is high hardness glass, as following:



- 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

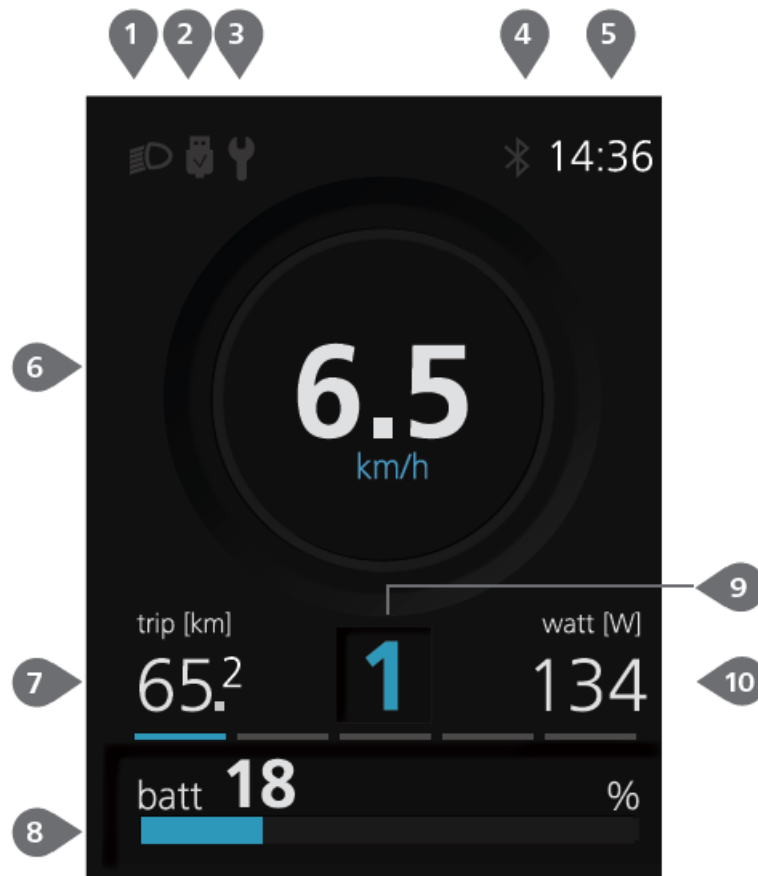
- Operating temperature: -20°C~45°C
- Storage temperature: -20°C~50°C
- Waterproof: IPX5
- Bearing humidity: 30%-70% RH


Functional Overview

- Speed indication (including maximum speed and average speed, unit switching between km and mile).
- Battery capacity indicator.
- Automatic sensors explanation of the light-ing system.
- Brightness setting for backlight.
- Indication of assistance level.
- Motor output power and output current indicator.
- Kilometer stand (including single-trip distance, total distance and remaining distance).
- Walk assistance.
- Indication for error messages
- Support level setting.
- Indication for consumption of energy CALO-RIES (Note: If the display has this function).
- Display for the remaining distance. (Depends on your riding style)
- Power-on password setting.
- Two UI interfaces are available for users to choose.
- Six languages are available for users to choose.
- USB charging (5V and 500mA)

- Bluetooth function. (the display can connect to the mobile through Bafang Go APP)

DISPLAY INFORMATION



1. The display shows  this symbol, if the light is on.

2. USB charging indicator displays the icon, if an external USB device is connected to the display.

3. Maintenance indicator.

4. Bluetooth indicator.

5. Time indication.

6. Speed indication.

7. Different modes: daily kilometers (trip) – total kilometers (odo) – Maximum speed (max)- Average speed (avg) – Range (range) – Cadence (cadence) – Travel time (time) – Energy consumption (calories(only with torque sensor fitted)) -cycle.

8. Indication for the capacity of battery in real time.

9. Support level/ Walking assistance



10. Input power indication/current indication.

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 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.





Selection Mode

Briefly press the  (0.5s) button to see the different trip modes. daily kilometers (trip) – total kilometers (odo) – Maximum speed (max) – Average speed (avg) – Range (range) – Cadence (cadence) – Travel time (time) – Energy consumption (calories(only with torque sensor fitted)) -cycle.



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 /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: 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.





USB Charge Function

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





Maintenance

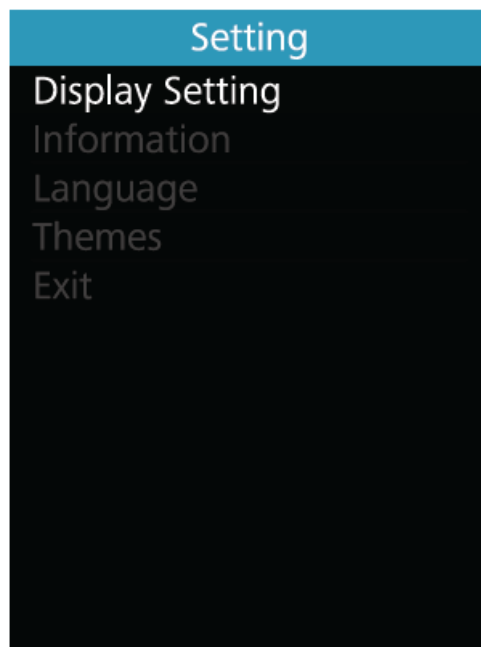
With a mileage of more than 5000 km (or 100 charge cycles), the "  " icon will be displayed on the display.

Every 5000 km the icon "  " is displayed every time. This function can be set in the display settings.




SETTINGS

After the display is turned on, double press the  button to access the "Setting" menu. By pressing the + or – button  (<0.5S) , you can select: Display Setting, Information, Language, Themes or EXIT. Then press the (<0.5S) button to confirm your selected option. If no button is pressed within 20 seconds, the display will automatically return to the main screen and no data will be saved.









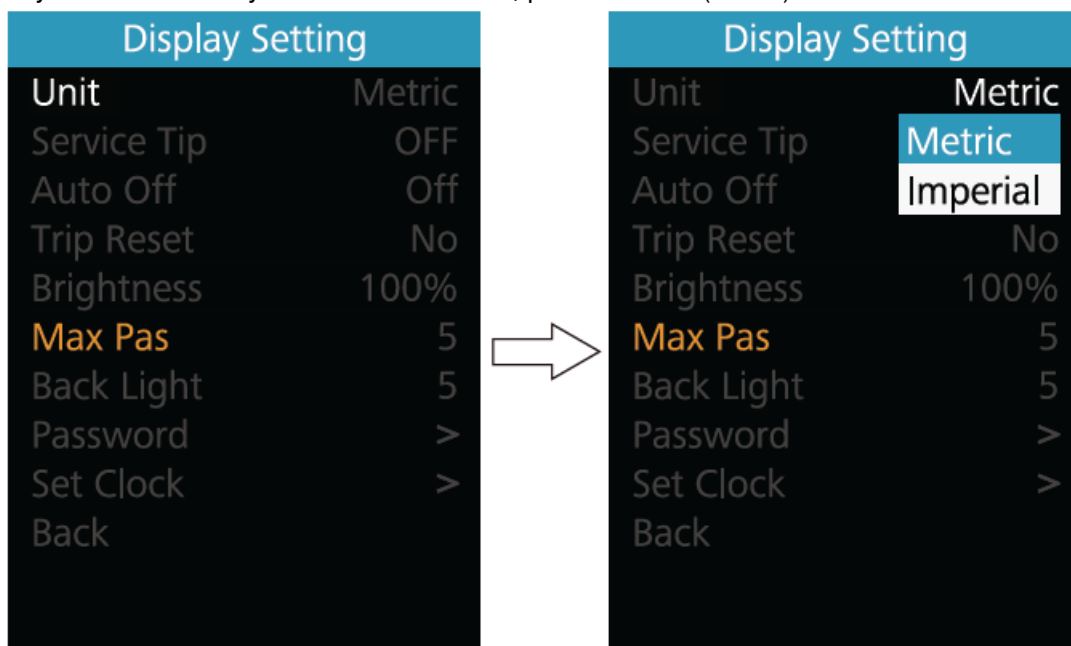
You can press and hold the + and – (>1S) button at any time, to return to the main screen.

“Display setting”






In “Setting” interface, briefly press the + or – (<0.5S) button to select Display Setting, and then briefly press the  (<0.5S) button to access the following selections.


“Unit” Selections in km/Miles

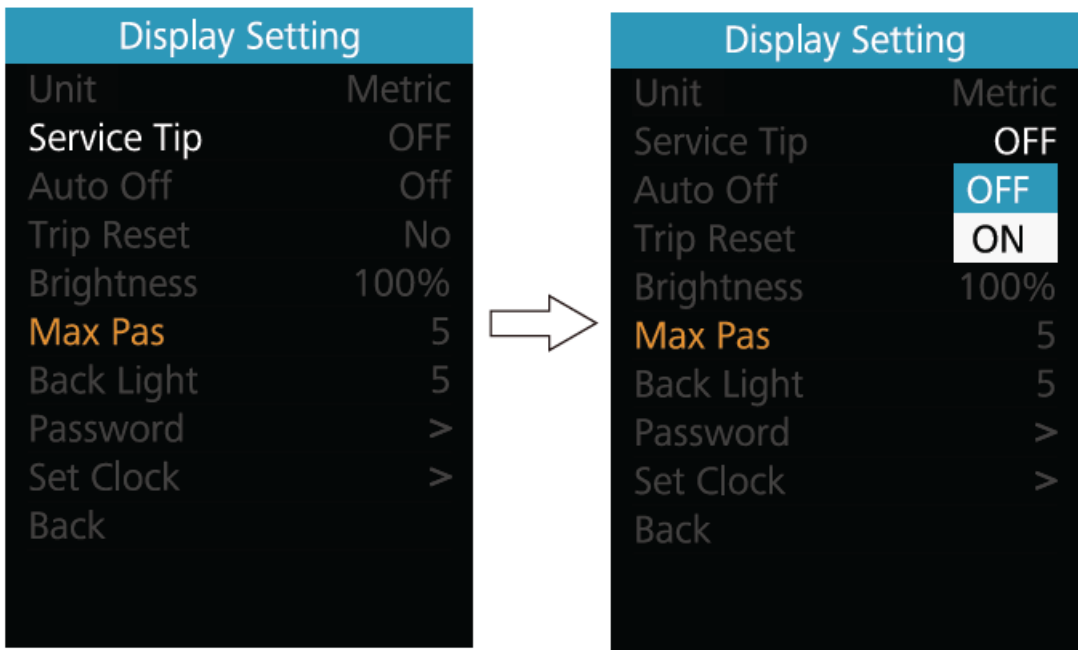
Press the  or  (<0.5S) button to highlight “Unit” in the Display setting menu, and then press the  (<0.5S) button to select. Then with the  or  button to choose between “Metric” (kilometer) or “Imperial” (Miles). Once you have chosen your desired selection, press the  (<0.5S) button to save.









“Service Tip” Switching the notification on and off

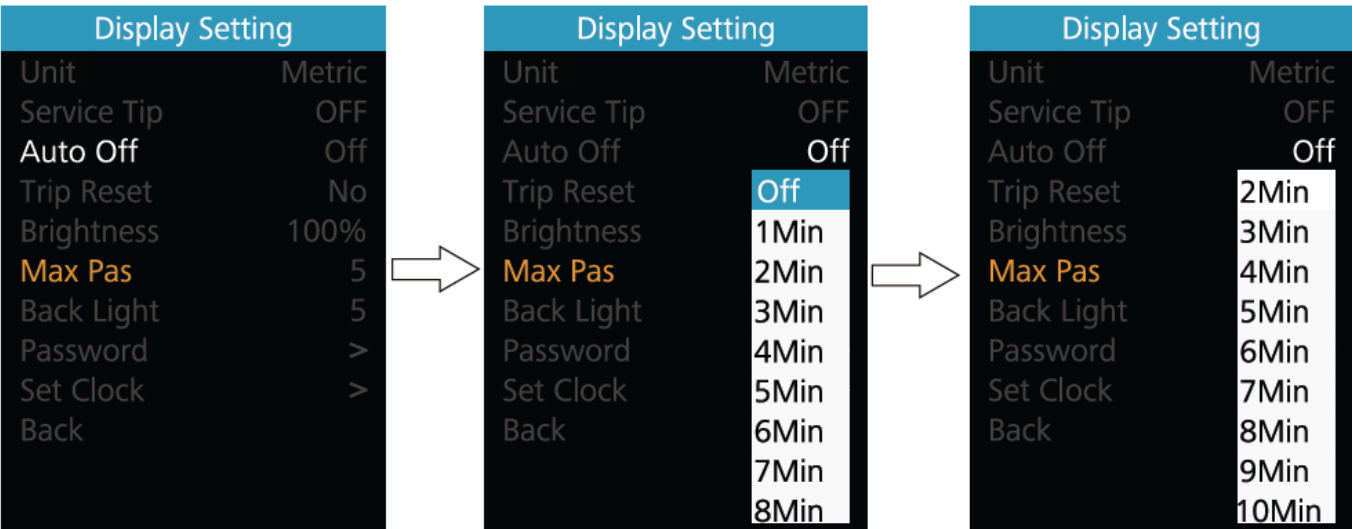
Press the  or  (<0.5S) button to highlight “Service Tip” in the Display setting menu, and then press  (<0.5S) to select. Then with the or button to choose between “ON”  or  “OFF”. Once you have chosen

your desired selection, press the  (<0.5S) button to save.









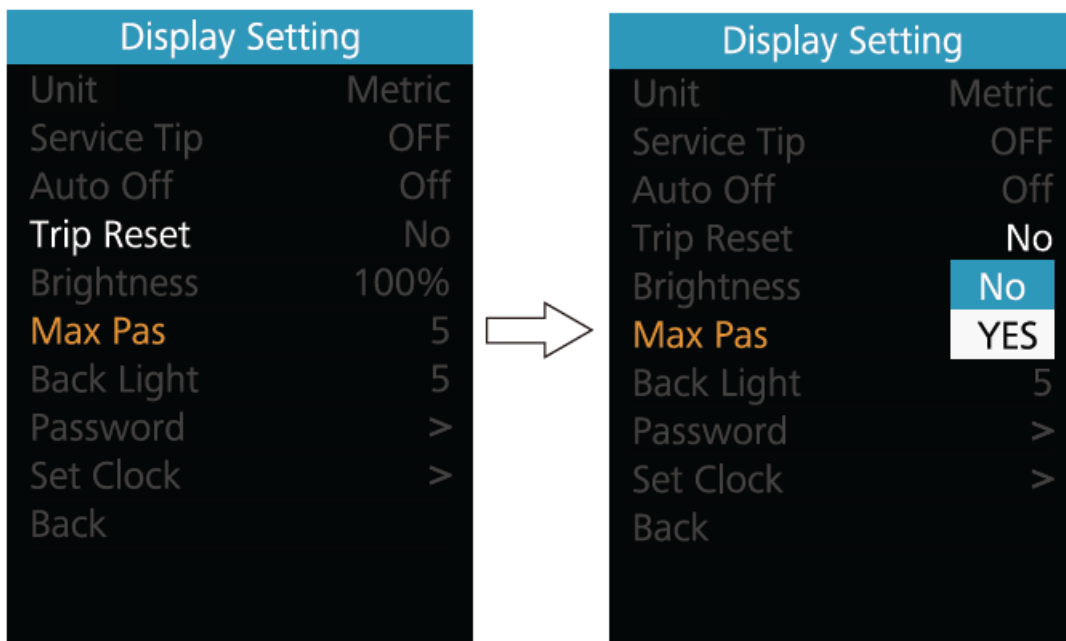
“Auto Off” Set Automatic system switch off time

Press the  or  (<0.5S) button to highlight “Auto Off” in the Display setting menu, and then press  (<0.5S) to select. Then with the  or  button to choose the automatic Off time as “Off” / “1Min” – “10Min”, OFF means don’t turn off. Once you have chosen your desired selection, press the  (<0.5S) button to save.



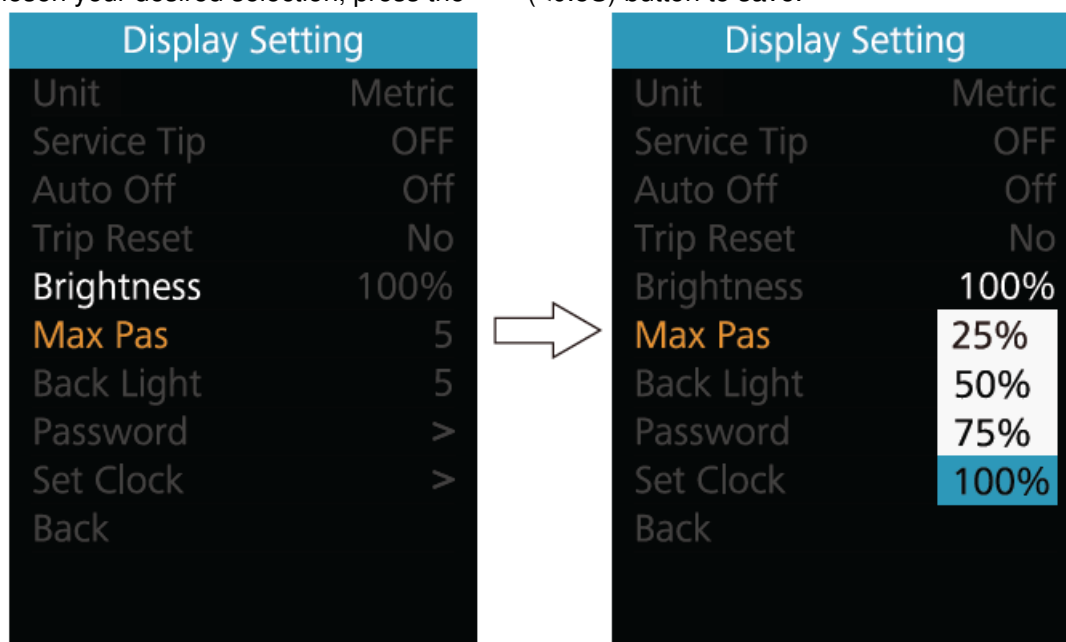
“TRIP Reset” Reset mileage

Press the  or  (<0.5S) button to highlight “TRIP Reset” in the Display setting menu, and then press  (<0.5S) to select. Then with the  or  to select “YES” to reset or “NO” don’t to reset , by reset the maximum speed (MAXS), includes average speed (AVG), single-trip distance (TRIP) will be to clear. Then press the  (<0.5S) button to save.



“Brightness” Display brightness

Press the **+** or **-** (<0.5S) button to highlight “Brightness” in the Display setting menu. Then press **i** (<0.5S) to select. Then with the **+** or **-** button to choose between “25%” / “50%” / “75%” / “100%”. Once you have chosen your desired selection, press the **i** (<0.5S) button to save.

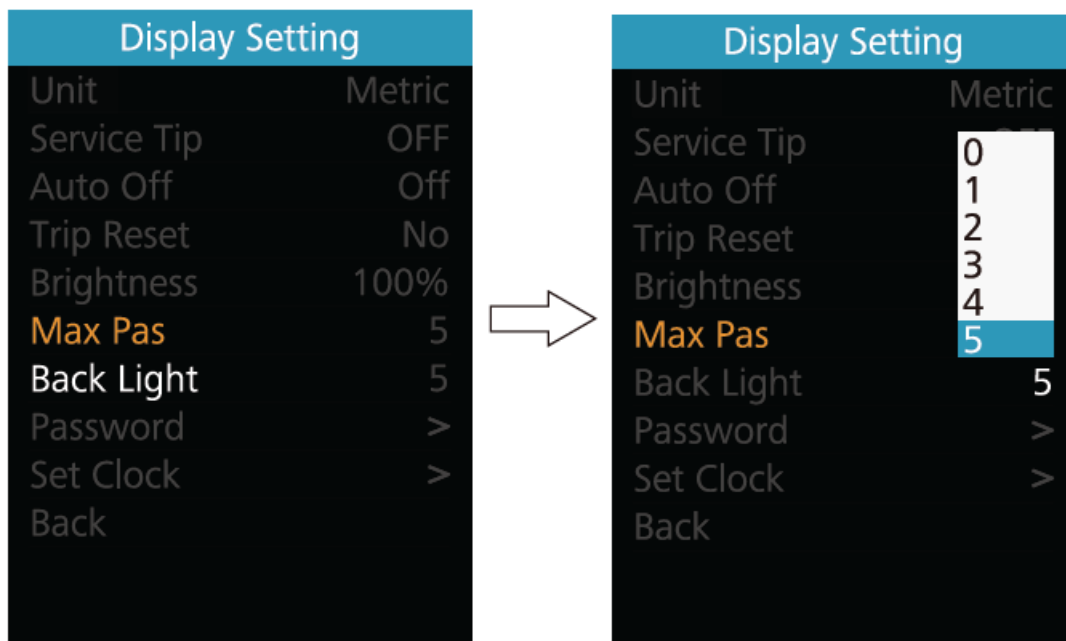


“MAX PAS” Support level

The “Max Pas” can’t be set.

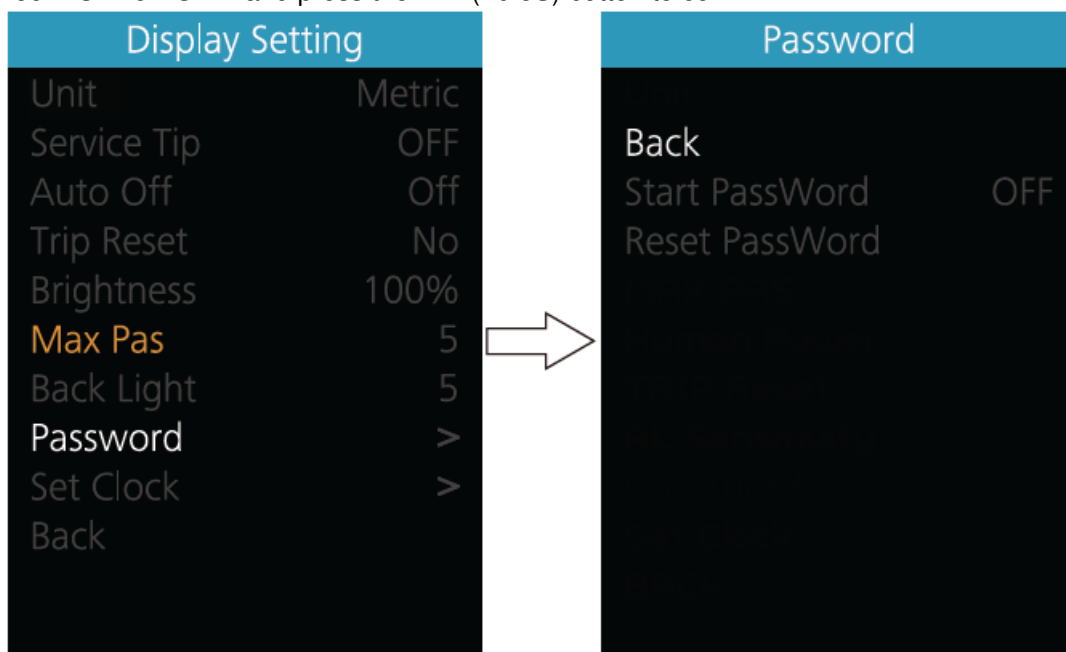
“Back Light” Set light sensitivity

Press the **+** or **-** (<0.5S) button to highlight “Back Light” in the Display setting menu. Then press **i** (<0.5S) to select. Then with the **+** or **-** button to select the level of the light sensitivity as “0” / “1” / “2” / “3” / “4” / “5”. Once you have chosen your desired selection, press the **i** (<0.5S) button to save.



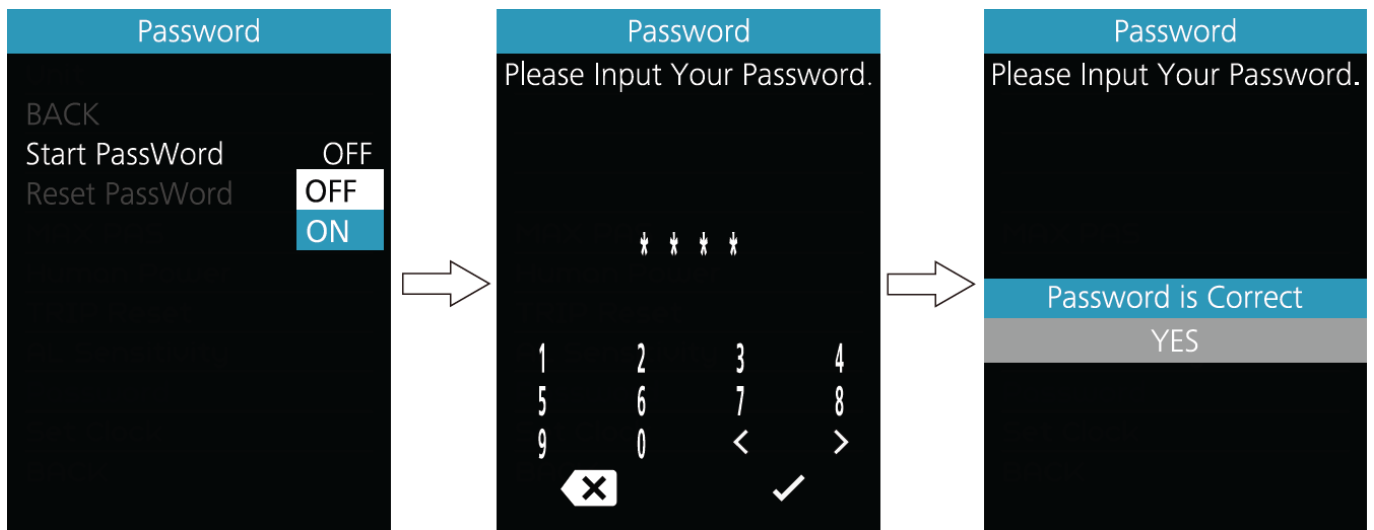
“Password”

Press the **+** or **-** (<0.5S) button to highlight “Password” in the Display setting menu. Then by briefly pressing **i** (<0.5S) to enter the password selection. Now again with the **+** or **-** (<0.5S) buttons highlight “Start Password” and press the **i** (<0.5S) button to confirm. Now again using the **+** or **-** (<0.5S) Button choose between “ON” or “OFF” and press the **i** (<0.5S) button to confirm.



Starting password:

Select “ON” in “Start PassWord” interface, then briefly pressing **i** (<0.5S) to confirm. Now you can input your 4-digit pin code. By using the **+** or **-** (<0.5S) button choose numbers between “0-9”. By briefly pressing the **i** (<0.5S) button you can move on to the next number.



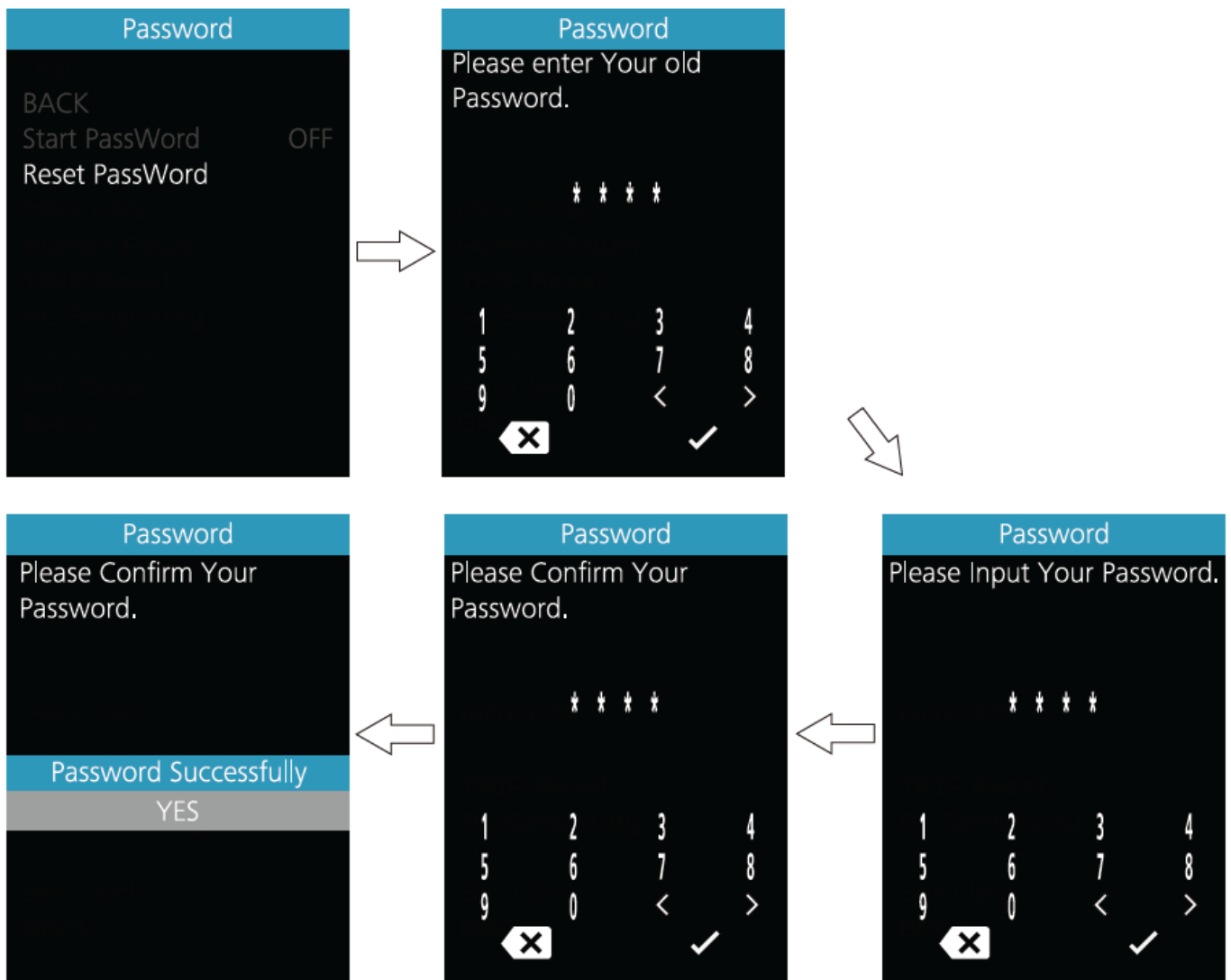
After entering your desired 4-digit code, you must re-enter the 4-digits you chose, to ensure the code is correct. Then the interface exit back automatically to original interface within two seconds.

After selecting a password, the next time you turn on the system it will ask you to input your password. Press the or (<0.5S) button to select the numbers, Then press briefly (<0.5S) to confirm. After entering the wrong number three times, the system switches off. If you have forgotten the password, please contact your retailer.







Changing the password:

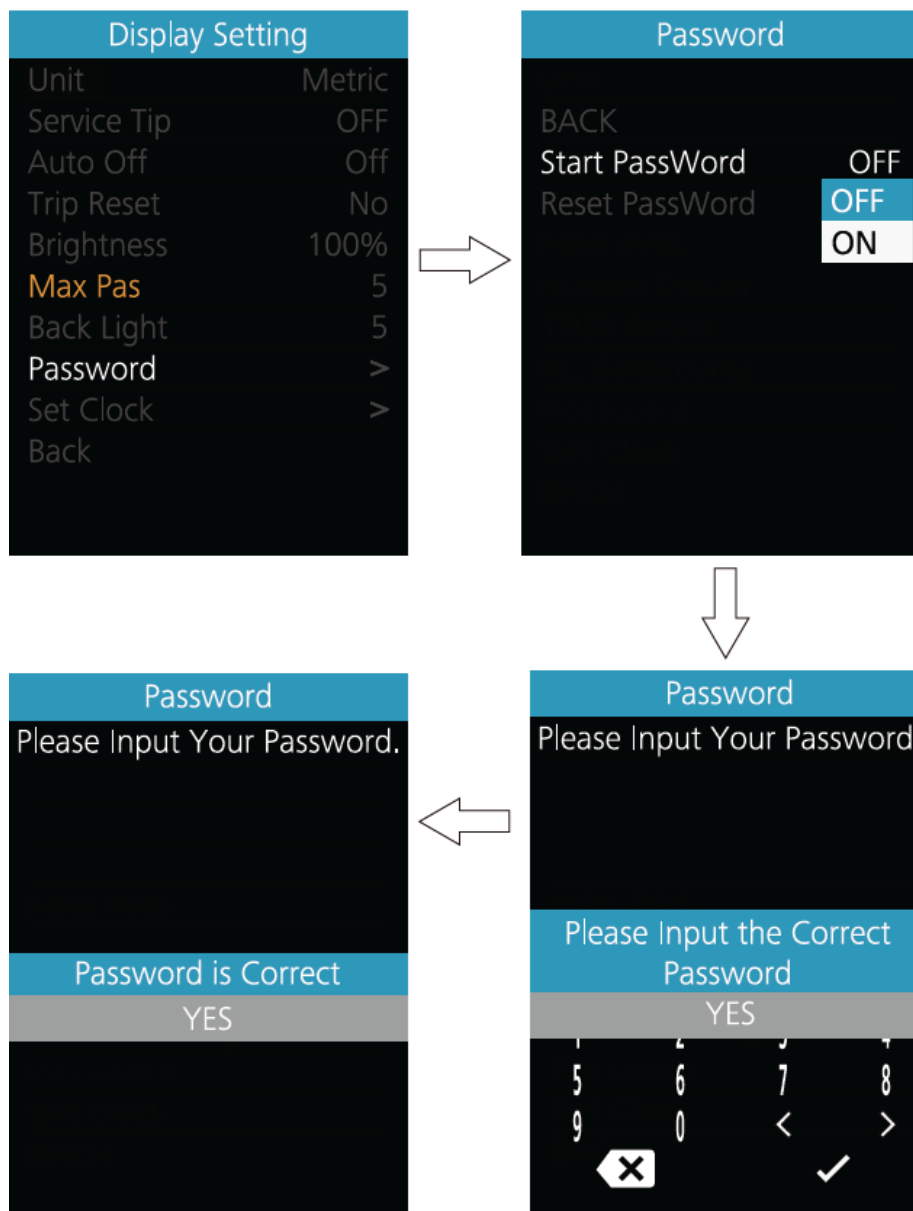
Press the or (<0.5S) button to choose Password in the menu. Then by briefly pressing (<0.5S) to enter the password section. Now again with the or (<0.5S) button highlight "Reset Password" and press the (<0.5S) button to confirm. Now with the or (<0.5S) buttons and highlight "Reset Password" and with the (<0.5S) button to confirm.

By entering your old password once, followed by inputting the new password twice, then your password will be changed.



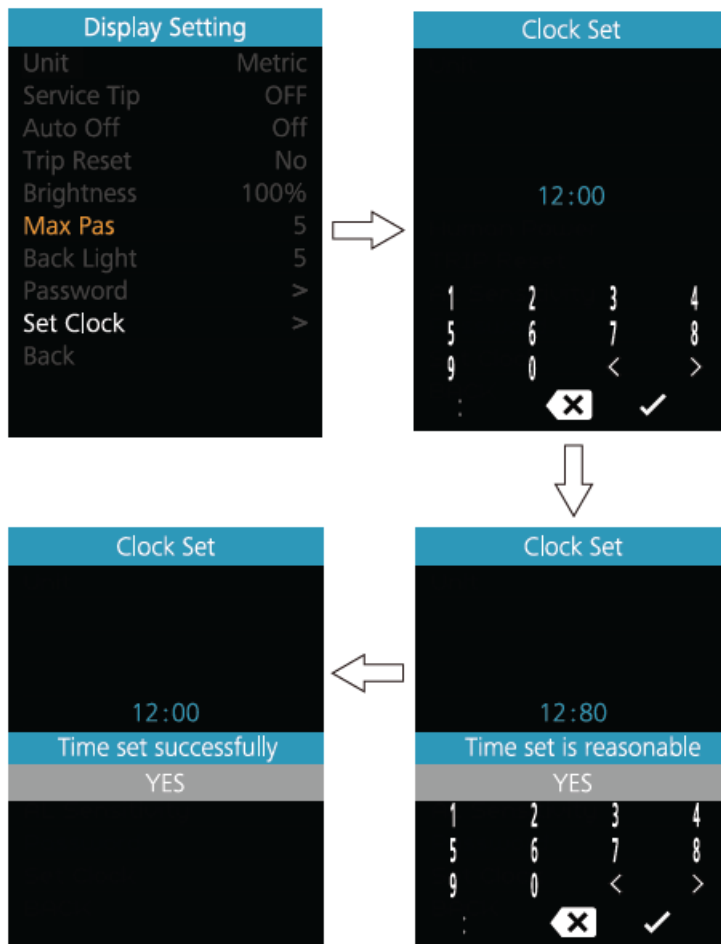
Deactivating the password:

In the "Password" interface, with the  or  (<0.5S) buttons to highlight "Start Password" and press the  (<0.5S) button to confirm. Then use the  or  (<0.5S) Button to choose "OFF" and press the  (<0.5S) button to confirm. Now enter your password, to deactivate it.







“Set Clock”

Press the **+** or **-** (<0.5S) Button to highlight “Set Clock” in the Display setting menu. Then briefly press the **i** (<0.5S) button to confirm the selection. Now press the **+** or **-** (<0.5S) button and input the correct number (time) and press the **i** (<0.5S) button to move to the next number. After entering the correct time, press the **i** (<0.5S) button to confirm and save.



“Information”

Once the system is turned on, double-press the  button to access the “Setting” menu. Now by pressing the  or  (<0.5S) button to highlight the “information”, and press the  (<0.5S) button to confirm.






Information	
Wheel Size	28.0Inch
Speed Limit	25.0km/h
Battery Info	>
Ctrl Info	>
Display Info	>
Torque Info	>
Error Code	>
Back	

Wheel Size and Speed Limit

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

Information	
Wheel Size	28.0Inch
Speed Limit	25.0km/h
Battery Info	>
Ctrl Info	>
Display Info	>
Torque Info	>
Error Code	>
Back	

Battery Information

Press the  or  (<0.5S) button to access the “Battery Info” menu, and then press the  (<0.5S) button to confirm. Now press the  or  (<0.5S) button to select “Back” or “Next Page”, now you can view all the battery information.

Battery Info	
BACK	
Next Page...	
TEMP	-- ℃
TotaVolt	--V
Current	--A
Res Cap	--AH
Full Cap	--AH
RelChargeState	--%
AbsChargeState	--%
Page: 1/5	



Battery Info	
BACK	
Next Page...	
Cycle Times	--
M.N.T	--H
L.N.T	--H
Total Cell	--
Page: 2/5	



Battery Info	
BACK	
Next Page...	
Cell Volt09	--mV
Cell Volt10	--mV
Cell Volt11	--mV
Cell Volt12	--mV
Cell Volt13	--mV
Page: 5/5	



Battery Info	
BACK	
Next Page...	
Cell Volt01	--mV
Cell Volt02	--mV
Cell Volt03	--mV
Cell Volt04	--mV
Cell Volt05	--mV
Cell Volt06	--mV
Cell Volt07	--mV
Cell Volt08	--mV
Page: 4/5	







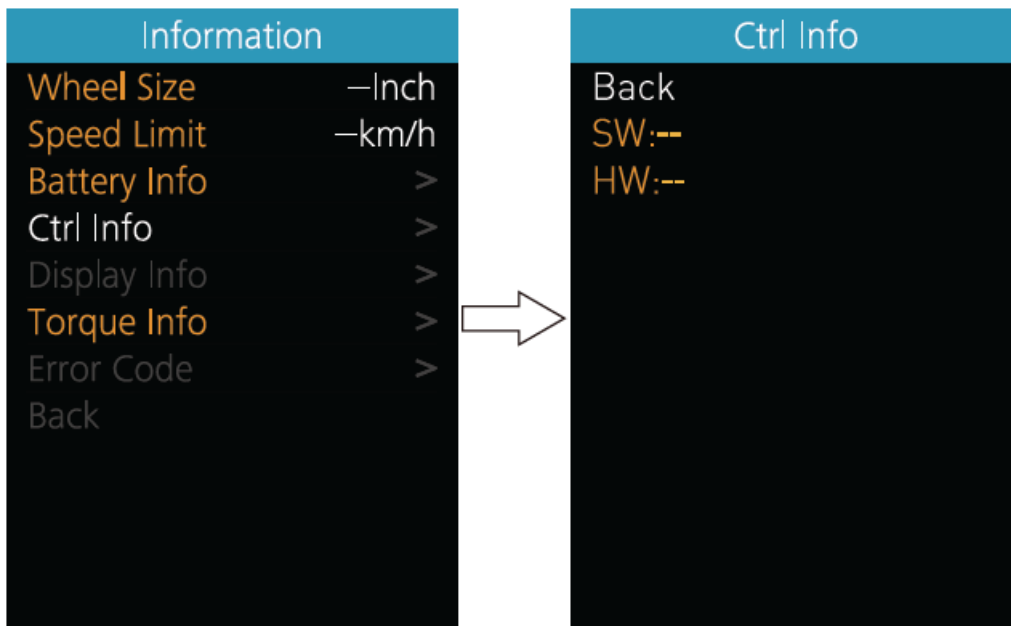
Battery Info	
BACK	
Next Page...	
SW:--	
HW:--	
Page: 3/5	

Content	Explanation
TEMP	Current temperature in degrees (°C)
TotalVlt	Voltage (V)
Current	Discharge (A)
Res Cap	Remaining Capacity (Ah)
Full Cap	Total Capacity (Ah)
RelChargeState	Default Loader Status (%)
AbsChargeState	Instant charge (%)
Cycle Times	Charging cycles (number)
M.N.T	Maximum time in which no charge was made (Hr)
L.N.T	Last Uncharge Time (Hr)
Total Cell	Number (individual)
SW	Software Version
HW	Hardware Version
Cell Voltage 1	Cell Voltage 1 (mV)
Cell Voltage 2	Cell Voltage 2 (mV)
Cell Voltage n	Cell Voltage n (mV)





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

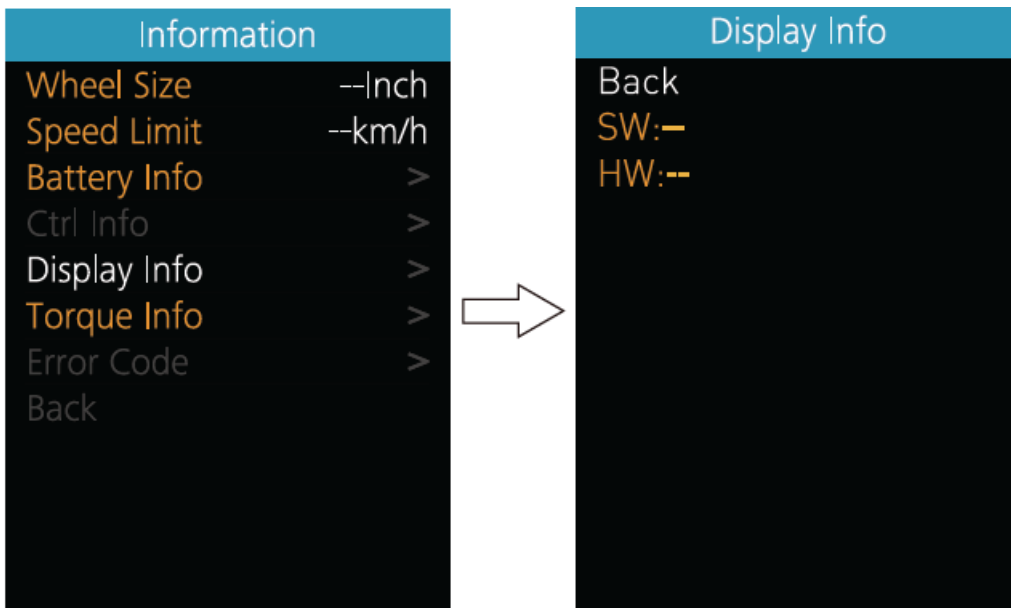
Controller Information

Press the  or  (<0.5S) button and select “Ctrl Info”, and then press the  (<0.5S) button to read the software and hardware data of the  controller. To exit, press the (<0.5S) button, or select “Back” to return to the information interface.







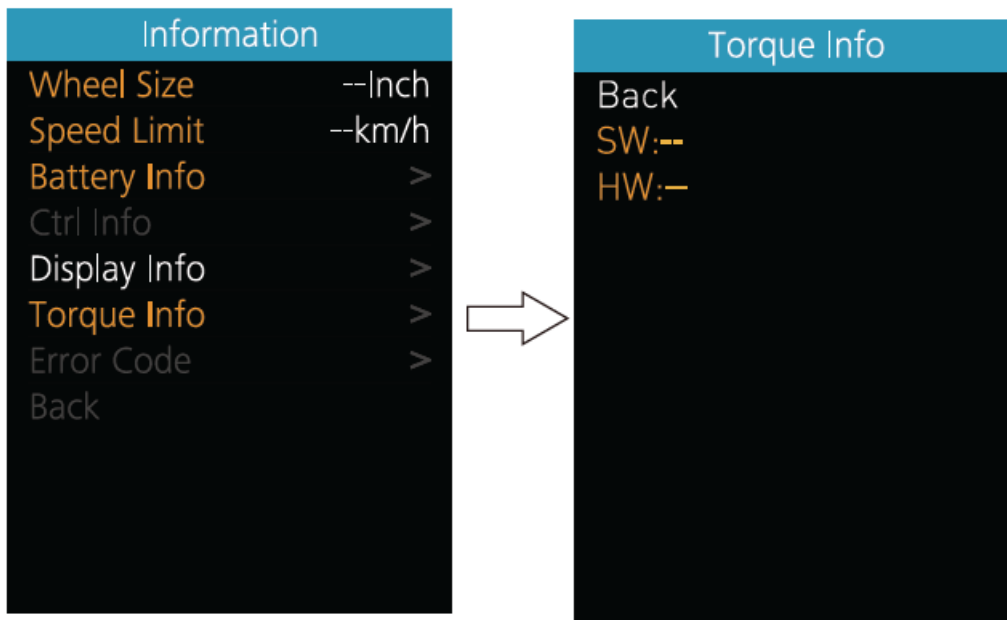
Display Information

Press the  or  (<0.5S) button and select “Display Info”, then press the  (<0.5S) button to read the  software and hardware data of the display. To exit, press the (<0.5S) button, or select “Back” to return to the information interface.



Torque Information

Press the  or  (<0.5S) button and select “Torque info”, then press the  (<0.5S) button to read the software and hardware data of the  torque. To exit, press the (<0.5S) button, or select “Back” to return to the information interface.



Error Code

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

“Language”

Once the system is turned on, double press the button to access the “Setting” menu. Now by pressing the or (<0.5S) button to highlight the “Language”, and press the (<0.5S) button to confirm. Now press the or or (<0.5S) button to select “English”, “German”, “Dutch”, “French”, “Italian” or “Czech”, Once you have chosen your desired selection, press the (<0.5S) button to save, then select “Back” to return to the setting interface.

ERROR CODE DEFINITION

The HMI can show the faults of Pedelec. When a fault is detected, the icon will be indicated and 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
04	The throttle has fault.	<ol style="list-style-type: none"> 1. Check the connector and cable of the throttle are not damaged and correctly connected. 2. Disconnect and reconnect the throttle, if still no function please change the throttle.
05	The throttle is not back in its correct position.	Check the connector from the throttle is correctly connected. If this does not solve the problem, please change the throttle.
07	Overvoltage protection	<ol style="list-style-type: none"> 1. Remove and re-Insert the battery to see if it resolves the problem. 2. Using the BESST tool update the controller. 3. Change the battery to resolve the problem.
08	Error with the hall sensor signal inside the motor	<ol style="list-style-type: none"> 1. Check all connectors from the motor are correctly connected. 2. If the problem still occurs, please change the motor.
09	Error with the Engine phase's	Please change the motor.
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 still occurs, please change the motor.
11	The temperature sensor inside the motor has an error	Please change the motor.
12	Error with the current sensor in the controller	Please change the controller or contact your supplier.

Error	Declaration	Troubleshooting
13	Error with the temperature sensor inside of the battery	<ol style="list-style-type: none"> 1. Check all connectors from the battery are correctly connected to the motor. 2. If the problem still occurs, please change the Battery.
14	The protection temperature inside the controller has reached its maximum protection value	<ol style="list-style-type: none"> 1. Allow the pedelec to cool down and restart the system. 2. If the problem still occurs, please change the controller or contact your supplier.
15	Error with the temperature sensor inside the controller	<ol style="list-style-type: none"> 1. Allow the pedelec to cool down and restart the system. 2. If the problem still occurs, Please change the controller or contact your supplier.
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. Connect the pedelec to BESST, to see if there is a signal from the speed sensor. 5. Using the BESST Tool- update the controller to see if it resolves the problem. 6. Change the speed sensor to see if this eliminates the problem. If the problem still occurs, please change the controller or contact your supplier.
25	Torque signal Error	<ol style="list-style-type: none"> 1. Check that all connections are connected correctly. 2. Please connect the pedelec to the BESST system to see if torque can be read by the BESST tool. 3. Using the BESST Tool update the controller to see if it resolves the problem, if not please change the torque sensor or contact your supplier.


Error	Declaration	Troubleshooting
26	Speed signal of the torque sensor has an error	<ol style="list-style-type: none"> 1. Check that all connections are connected correctly. 2. Please connect the pedelec to the BESST system to see if speed signal can be read by the BESST tool. 3. Change the Display to see if the problem is solved. 4. Using the BESST Tool update the controller to see if it resolves the problem, if not please change the torque sensor or contact your supplier.
27	Overcurrent from controller	Using the BESST tool update the controller. If the problem still occurs, please change the controller or contact your supplier.
30	Communication problem	<ol style="list-style-type: none"> 1. Check all connections on the pedelec are correctly connected. 2. Using the BESST Tool run a diagnostics test, to see if it can pinpoint the problem. 3. Change the display to see if the problem is solved. 4. Change the EB-BUS cable to see if it resolves the problem. 5. Using the BESST tool, re-update the controller software. If the problem still occurs please change the controller or contact your supplier.
33	Brake signal has an error (If brake sensors are fitted)	<ol style="list-style-type: none"> 1. Check all connectors are correctly connected on the brakes. 2. Change the brakes to see if the problem is solved. <p>If problem continues Please change the controller or contact your supplier.</p>
35	Detection circuit for 15V has an error	Using the BESST tool update the controller to see if this resolves the problem. If not, please change the controller or contact your supplier.

36	Detection circuit on the keypad has an error	Using the BESST tool update the controller to see if this resolves the problem. If not, please change the controller or contact your supplier.
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Error	Declaration	Troubleshooting
37	WDT circuit is faulty	Using the BESST tool update the controller to see if this resolves the problem. If not, please change the controller or contact your supplier.
41	Total voltage from the battery is too high	Please change the battery.
42	Total voltage from the battery is too low	Please Charge the battery. If the problem still occurs, please change the battery.
43	Total power from the battery cells is too high	Please change the battery.
44	Voltage of the single cell is too high	Please change the battery.
45	Temperature from the battery is too high	Please let the pedelec cool down. If problem still occurs, please change the battery.
46	The temperature of the battery is too low	Please bring the battery to room temperature. If the problem still occurs, please change the battery.

47	SOC of the battery is too high	Please change the battery.
48	SOC of the battery is too low	Please change the battery.
61	Switching detection defect	<ol style="list-style-type: none"> 1. Check the gear shifter is not jammed. 2. Please change the gear shifter.
62	Electronic derailleur cannot release.	Please change the derailleur.
71	Electronic lock is jammed	<ol style="list-style-type: none"> 1. Using the BESST tool update the Display to see if it resolves the problem. 2. Change the display if the problem still occurs, please change the electronic lock.
81	Bluetooth module has an error	<p>Using the BESST tool, re-update the software onto the display to see if it resolves the problem.</p> <p>If not, Please change the display.</p>

Documents / Resources

	<p>BAFANG DP C271.CAN Display [pdf] User Manual DP C271.CAN, DP C271.CAN Display, DP Display, Display</p>
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