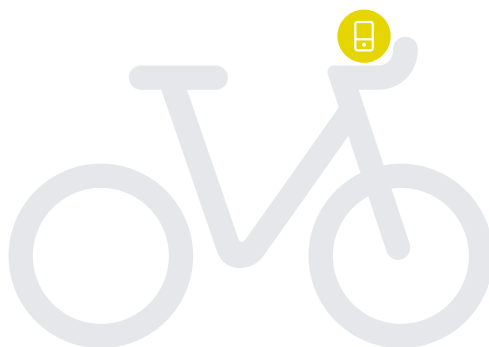**BAFANG**

Bafang HMI

>> DP C080.C

1. Important Notice

- If the error information from the display cannot be corrected according to the instructions, please contact your place of purchase.
- 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.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions:
  - This device may not cause harmful interference.
  - This device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

2. Introduction of Display

- Model: DP C080.C
- The housing is made of PC/ABS and the TFT screen is made of aluminosilicate glass.

3. Product Description

3.1. Specification

- Screen: TFT
- Power supply: 36/48/52 Vdc
- Operating temperature: -20~45 °C
- Storage temperature: -20~60 °C
- Protection rating: IPX7
- Storage Humidity: 30%-70% RH

3.2. Functional overview

- CAN communication protocol; Easy and user-friendly operation with three keys.
- Speed indication: including real-time speed, maximum speed "MAX" and average speed "AVG".
- Km/mile shift
- Smart power indication: Provides stable battery percentage alerts through optimized algorithms.
- Automatic control of light-sensing headlight
- Backlight brightness 4-level adjustment
- Gear control: 6 modes in total (0/E/T/S/S+/B)
- Mileage indication: The maximum mileage can be displayed up to 99999. Single mileage can be shown as TRIP; accumulated mileage can be shown as ODO.
- Smart indication: remaining mileage can be shown as RANGE, energy consumed can be shown as Cal (calories).
- Error code indication.
- Walk assistance.
- Service tip.
- 6 languages: English, German, Dutch, French, Italian, Czech.

4. Overview

4.1. Display
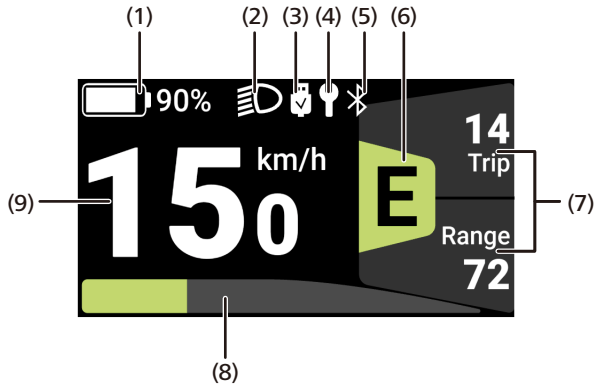
1. Battery capacity
2. Headlight
3. Charge
4. Service tip
5. Bluetooth (if)
6. Power-assisted mode
7. Multifunction indication
8. Watt
9. Real-time speed

4.2. Control Unit

(1)	**Button [+]**	Up/Headlight	Press **+** or **—** to select your desired item on the menu.
(2)	**Button [—]**	Down/Walk Assistance	
(3)	**Button [⏻]**	On/Off/Confirm	• Power on/off the HMI. • Confirm your selection.

5. Normal Operation

5.1. Power ON/OFF

1. Press and hold ⏻ button (≥2 s) to power on/off the HMI.

TIP:
If the drive system has not be operated for more than 5 minutes (the time can be set), the HMI will be automatically OFF.
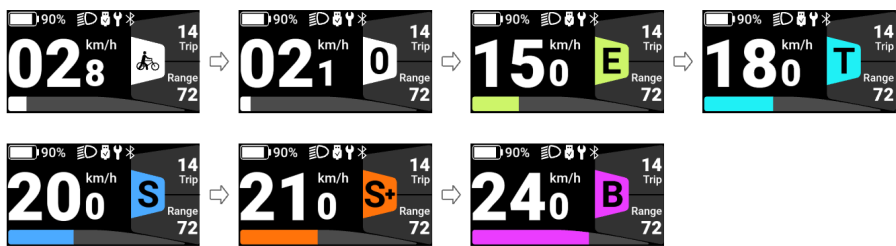
5.2. Select the Power-assisted Mode

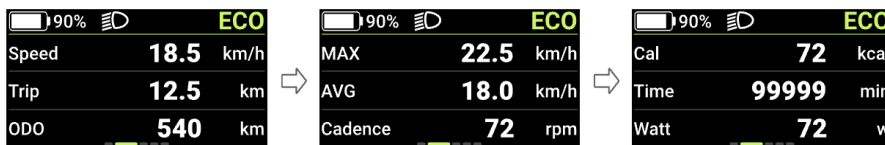1. Press **+** or **—** to switch the power-assisted mode and change the power of the motor.

TIP:
- The lowest gear is E, and the highest gear is B (user selectable).
- The default mode is E; 0 means the e-bike is in neutral position.

E (Eco):	Green	ECO mode
T (Tour):	Blue	TOUR mode
S (Sport):	Indigo	SPORT mode
S+ (Sport+):	Orange	SPORT+ mode
B (Boost):	Purple	BOOST mode

5.3. View the Data

1. In the main interface, press the ⏻ to enter the interface.
2. Press the ⏻ to switch data displays.

▭90% ⚡D		ECO
Speed	**18.5**	km/h
Trip	**12.5**	km
ODO	**540**	km

⇨

▭90% ⚡D		ECO
MAX	**22.5**	km/h
AVG	**18.0**	km/h
Cadence	**72**	rpm

⇨

▭90% ⚡D		ECO
Cal	**72**	kcal
Time	**99999**	min
Watt	**72**	w

## 5.4. Adjust the Headlight/backlight

1. Press and hold ✚ (≥2s) to turn on the headlight, the backlight luminance of the HMI will decrease, and the ⚡D appears.
2. Press and hold the ✚ again to turn off the headlight, the HMI backlight luminance will increase, and the ⚡D will disappear.

> **TIP:**
>
> The headlight can be automatically switched according to the ambient light, but the auto light function fails once user manually switches the headlight on/off. After restarting the HMI, the function works again.

▭90%		
		14 Trip
152	km/h	
		E
		Range **72**

⇨

▭90% ⚡D		
		14 Trip
152	km/h	
		E
		Range **72**
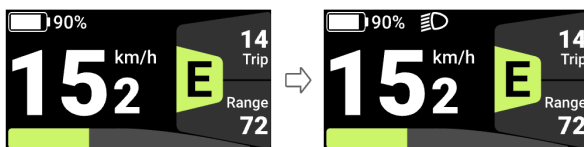
5.5. Walk Assistance

1. Press ▬ to switch to 0, and then press the ▬ again, and the symbol 🚲 will appear and be normally on.
2. Press and hold ▬, the symbol 🚲 will flash, and your ebike will go into walk assistance mode.
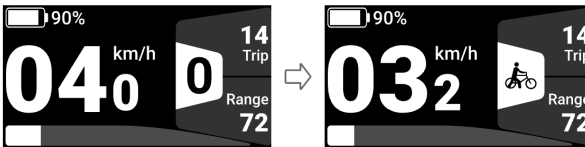
TIP:

If no speed signal is detected, the HMI will display a speed of 2.5 km/h.

3. Release **—** to exit from the walk assistance mode, and the symbol 🚶 will stop flashing and will be normally on.

TIP:

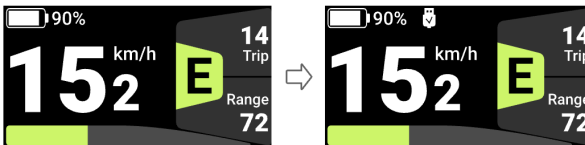If no operation within 5s, the mode will be automatically switched to 0.

5.6. USB Type-C Charging
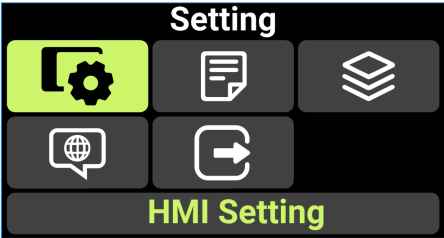
1. Connect the USB Type-C cable with the HMI.

TIP:

If the HMI is OFF, connect the USB Type-C cable with the HMI and power ON the HMI.
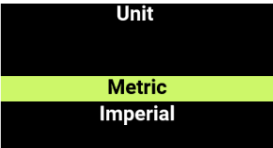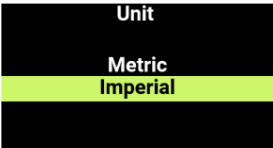
6. Settings

1. Press and hold the ✚ and ━ at the same time to go to "Setting".

2. Press ✚ or ━ to select "HMI Setting", "Information", "Themes", "Language" or "EXIT," and press ⏻ to enter.

6.1. Set the Unit

1. Go to "Setting", press ✚ or ━ to select "Unit".

2. Press ⏻ to go to the setting.

3. Press ✚ or ━ to select "Metric"/"Imperial", and press ⏻ to save and go back to "Unit."

4. To save and go back to the main interface, press and hold ✚ and ━ at the same time, or press "BACK" to "EXIT".

6.2. Set the Auto Off Time

1. Go to "Setting", press ✚ or ━ to navigate to "Auto Off".

2. Press ⏻ to go to the setting, press ✚ or ━ to select your desired item.

3. To save and go back to the main interface, press and hold ✚ and ━ at the same time, or press "BACK" to "EXIT".

TIP:

"OFF" means to disable the function.

Auto off		Auto off		Auto off
1Min		OFF		
2Min		**1Min**		**OFF**
		2Min		1Min

6.3. Set the Backlight

1. Go to "Setting", press **+** or **−** to navigate to "Brightness".

2. Press ⏻ to go to the setting, press **+** or **−** to select your desired item, and press ⏻ to save and go back to "Brightness".

3. To save and go back to the main interface, press and hold **+** and **−** at the sametime, or press "BACK" to "EXIT".

Brightness		Brightness
		25%
25%		**50%**
50%		75%

| Brightness		Brightness
50%		75%
75%		**100%**
100%		

6.4. Set the Light Sensitivity

1. Go to "Setting", press **+** or **−** to select "AL sensitivity".

2. Press ⏻ to go to the setting, and press **+** or **−** to adjust the light sensitivity.

3. Press ⏻ to save and go back to "AL sensitivity".

4. To save and go back to the main interface, press and hold ✛ and ━ at the sametime, or press "BACK" to "EXIT".

AL sensitivity	AL sensitivity	AL sensitivity
	OFF	1
OFF	**1**	**2**
1	2	3

AL sensitivity	AL sensitivity	AL sensitivity
2	3	4
3	**4**	**5**
4	5	
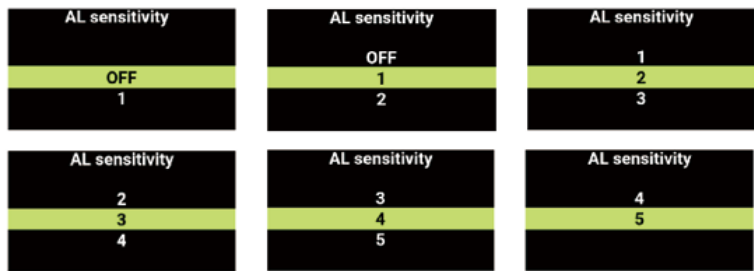
6.5. Reset the Trip

1. Go to "Setting", press ✛ or ━ to select "Trip reset".
2. Press ⏻ to go to the setting, press ✛ or ━ to select "NO"/"YES", and press ⏻ to save and go back to "Trip reset".
3. To save and go back to the main interface, press and hold ✛ and ━ at the same time, or press "BACK" to "EXIT".

| Trip reset	Trip reset
	NO
NO	**YES**
YES	
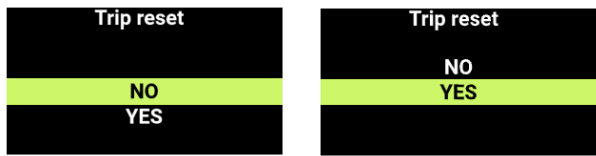
6.6. Service Tips

1. Go to "Setting", press ✛ or ━ to select "Service tips".
2. Press ⏻ to enter the setting.
3. Press ✛ or ━ to select "OFF"/"ON".
4. Press ⏻ to save and return to "Service tips".
5. To save and return to the main interface, press and hold ✛ and ━ at the same time, or press "BACK" to "EXIT".

TIP:

The "Service tips" function is turned off by default. When it is turned on and the ODO of the e-bike exceeds 5,000 km, 🛠 will appear on the HMI.

6.7. View the Wheel Size & Speed Limit

1. Go to "Information", press ＋ or ― to select "Controller Info".
2. Press ⏻ to go to the setting.
3. Select ⮌, and press ⏻ to view the "Wheel Size" and "Speed Limit".
4. To go back to the main interface, press and hold ＋ and ― at the same time, or press "BACK" to "EXIT".
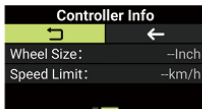
6.8. View the Battery Info
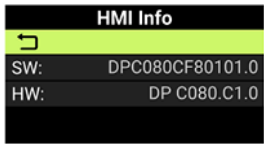
1. Go to "Information", press ＋ or ― to select "Battery Info".
2. Press ⏻ to enter the setting.
3. Press ⏻ to view the battery information.
4. Select ⮌, and press ⏻ to go back to "Battery Info".

5. To go back to the main interface, press and hold ✛ and ‒ at the same time, or press "BACK" to "EXIT".
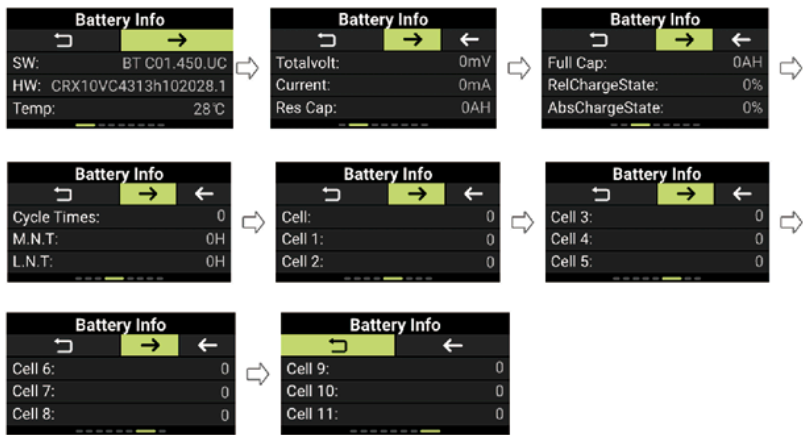
Battery Info	
⟲	→
SW:	BT C01.450.UC
HW:	CRX10VC4313h102028.1
Temp:	28℃

⟹

Battery Info		
⟲	→	←
Totalvolt:		0mV
Current:		0mA
Res Cap:		0AH

⟹

Battery Info		
⟲	→	←
Full Cap:		0AH
RelChargeState:		0%
AbsChargeState:		0%

⟹

Battery Info		
⟲	→	←
Cycle Times:		0
M.N.T:		0H
L.N.T:		0H

⟹

Battery Info		
⟲	→	←
Cell:		0
Cell 1:		0
Cell 2:		0

⟹

Battery Info		
⟲	→	←
Cell 3:		0
Cell 4:		0
Cell 5:		0

⟹

Battery Info		
⟲	→	←
Cell 6:		0
Cell 7:		0
Cell 8:		0

⟹

Battery Info	
⟲	←
Cell 9:	0
Cell 10:	0
Cell 11:	0

6.9. View the HMI Info

1. Go to "Information", press ✛ or ‒ to select "HMI Info".
2. Press ⏻ to enter.
3. Press ⏻ to go back to "HMI Info".
4. To go back to the main interface, press and hold ✛ and ‒ at the same time, or press "BACK" to "EXIT".

HMI Info	
⟲	
SW:	DPC080CF80101.0
HW:	DP C080.C1.0

6.10. View the Controller Info

1. Go to "Information", press ✛ or ‒ to select "Controller Info".
2. Press ⏻ to enter and press ✛.
3. Press ⏻ to go back to "Controller Info".

4. To go back to the main interface, press and hold ✚ and ━ at the same time, or press "BACK" to "EXIT".
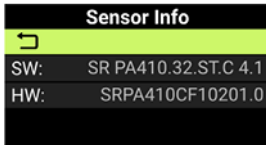

6.11. View the Sensor Info

1. Go to "Information", press ✚ or ━ to select "Sensor Info".
2. Press ⏻ to enter.
3. Press ⏻ to go back to "Sensor Info".
4. To go back to the main interface, press and hold ✚ and ━ at the same time, or press "BACK" to "EXIT".

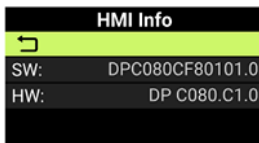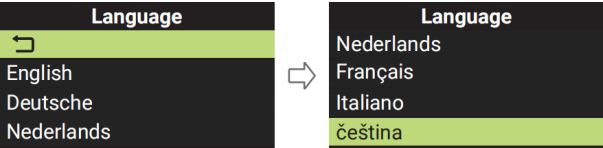## 6.12. View the HMI Info

1. Go to "Information", press ✚ or ━ to select "HMI Info".
2. Press ⏻ to enter.
3. Press ⏻ to go back to "HMI Info".
4. To go back to the main interface, press and hold ✚ and ━ at the same time, or press "BACK" to "EXIT".
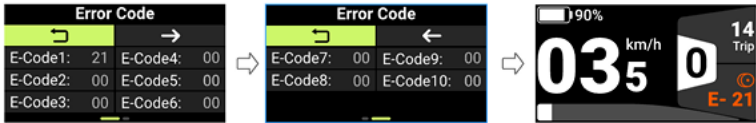

6.13. Set the Language

1. Go to "Setting", press ✚ or ━ to select "Language".
2. Press ⏻ to go to the setting.

3. Press **+** or **—** to select your desired language, and press ⏻ to save and go back to the main interface.

Language	
⮌	
English	
Deutsche	
Nederlands	

⇨

Language	
Nederlands	
Français	
Italiano	
čeština	

6.14. View Historical Error Codes

1. Go to "Information", press **+** or **—** to select "Error Code".
2. Press ⏻ to enter and press **+** to view the last 10 error messages.
3. Press ⏻ to go back to "Information", or press and hold **+** and **—** at the same time to go back to the main interface.

Error Code			
⮌		→	
E-Code1:	21	E-Code4:	00
E-Code2:	00	E-Code5:	00
E-Code3:	00	E-Code6:	00

⇨

Error Code			
⮌		←	
E-Code7:	00	E-Code9:	00
E-Code8:	00	E-Code10:	00

⇨

90%	14 Trip
03₅ km/h	0
	E- 21

7. Error Code

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.

See Appendix B for the detailed error code list.

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