7 DEALER MANUAL FOR DP E180.CAN/ DP E181.CAN

CONTENT

7.1 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 is not included due to wear and normal use and aging.

7.2 INTRODUCTION OF DISPLAY

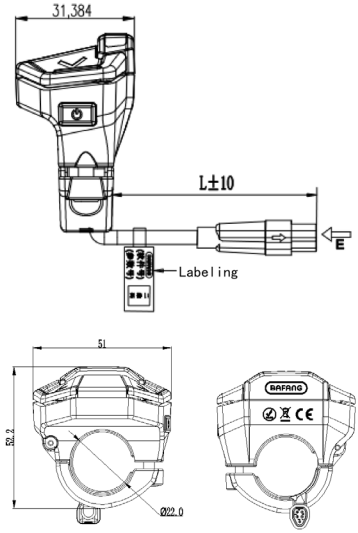
- **Model:** DP E180.CAN
  DP E181.CAN
- **Appearance:**

- **Identification:**

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.

7.3 PRODUCT DESCRIPTION

7.3.1 Overall Dimension



7.3.2 Specifications

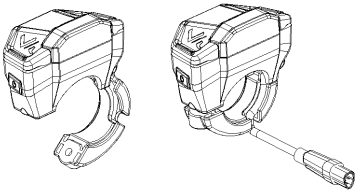
- Operating temperature: -20℃~45℃
- Storage temperature: -20℃~60℃
- Waterproof: IPX5
- Bearing humidity: 30%-70% RH

7.3.3 Function Overview

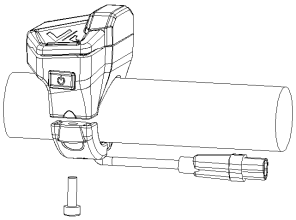
- Battery capacity indication
- Power on and off
- Control and indication of power assistance
- Walk assistance
- Control of lighting system
- Automatic sensitvity to light
- Error code indication

7.4 DISPLAY INSTALLATION

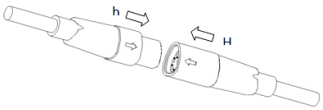
1. Open the clamp of display and place the display cable into the groove.



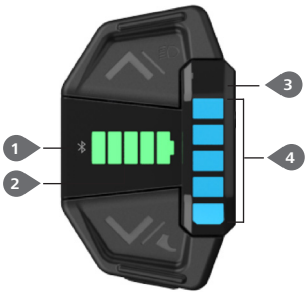
2. Put the clamp onto the handlebar, fix it with a M3*8 hex screw at tightening torque of 1 N.m.



3. Dock the DP's male connector "h" with EB-BUS's female connector "H" as indicated.



7.5 DISPLAY



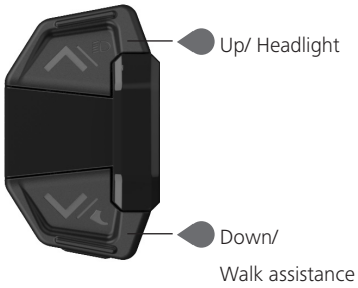
1. Bluetooth indication

   (only light up in DP E181.CAN)
2. Battery capacity indication
3. AL sensitivity position
4. Power assistance indication

   (level 1 to level 5 is from bottom to top, no LED light means no power assistance)
5. Error code indication

   (LED lights of level 1 and level 2 flash at a frequency of 1Hz.)

7.6 KEY DEFINITION



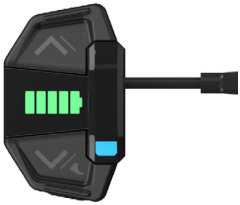
7.7 NORMAL OPERATION

7.7.1 Power On/Off

Press and hold ⏻ (>2S) on the display to power on the system.

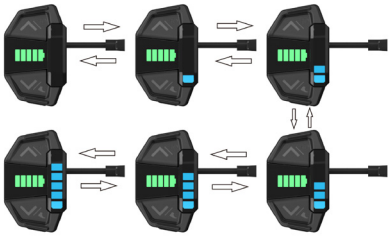
Press and hold ⏻ (>2S) again to power off the system.

In the off state, the leakage current is less than 1uA.



7.7.2 Switch Power Assisted Level

When the display is turned on, press ⏻ (<0.5S) to switch to the power assisted level and change the output power of the motor. The default level is level 0-5, of which the lowest is 1, the highest is 5, and level 0 is no power assistance.



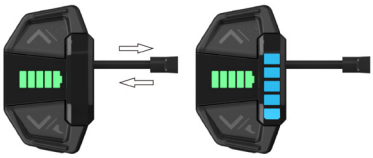
7.7.3 Switch the Headlight

ON: Press and hold ▲ (>2S) when the headlight is off, and the controller will switch on the headlight.

OFF: Press and hold ▲ (>2S) when the headlight is on, and the controller will switch off the headlight.

7.7.4 Walk Assistance

Briefly press ▼ (<0.5S) to the level 0 (no indication of the power assistance), then press and hold ▼ (>2S) to enter the walk assistance mode.



In the walk assistance mode, 5 LED lights flash at a frequency of 1Hz and the real-time speed is less than 6km/h. Once releasing the ▼ button, it will exit the walk assistance mode. If no operation within 5s, the display will automatically return to level 0.

7.7.5 Battery Capacity Indication

The battery capacity is indicated with 5 levels. When the lowest level indicator flashes that means battery needs to charge. The battery capacity is shown as follows:

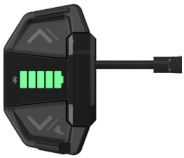
Bars	Capacity Range	Example
5	80%≤C≤100%	
4	60%≤C<80%	
3	40%≤C<60%	
2	20%≤C<40%	
1	5%≤C<20%	
LOW	<5%	

7.7.6 Bluetooth Indication

Note: Only DP E181.CAN is the Bluetooth version.

DP E181.CAN can be connected with BAFANG GO via Bluetooth, and all information can be shown on the smart phone, such as battery, sensor, controller and display.

The default name of Bluetooth is DP E181.CAN. After connecting, the Bluetooth indication on the display will be on.



(Bafang Go for Android™ and iOS™)

7.8 ERROR CODE DEFINITION

The display can show the errors of a pedelec. When the fault is detected, the LED lights will flash at a frequency of 1Hz. The LED light of level 1 indicates the tens digit of the error code, while the LED light of level 2 indicates the unit digit. For example:

Error code 25 : The LED light of level 1 flickers for 2 times, and the LED light of level 2 flickers for 5 times.

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.	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	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	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	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	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	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	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	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	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	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	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)	1. Check all connectors are correctly connected on the brakes. 2. Change the brakes to see if the problem is solved. If problem continues Please change the controller or contact your supplier.
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.

Error	Declaration	Troubleshooting
37	Controller 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.
38	Sensor WDT circuit is faulty	Using the BESST tool update the sensor to see if this resolves the problem. If not, please change the sensor 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	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	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	Using the BESST tool, re-update the software onto the display to see if it resolves the problem. If not, Please change the display.