



USER MANUAL

H610 Drive System

Original instruction manual



Read carefully before use. Keep for later reference.


BF-UM-5-H610-1-EN-PRINT, November 2019


SYMBOL INSTRUCTION

If you see the following symbols there is always a possibility of danger.

The warning symbols are as follows:

-  **Note:** This symbol indicates information about how to use the product and highlights specific parts of the User's Guide that are important.
-  **Caution:** This symbol warns against misuse of the products that can lead to it being damaged or polluting the environment.

 **Danger:** This symbol indicates possible health and safety hazards that may arise, if certain measures are not taken into consideration.

 **User Manual:** Please read the manual before using the pedelec. If you are not sure about any of the topics in the manual, please contact your retailer for assistance.

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1 GUIDE

1.1 Quick start

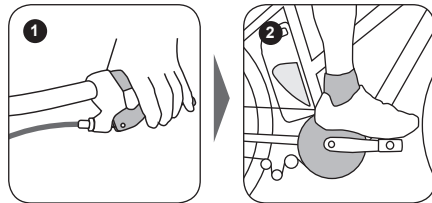
i This section provides important information and instructions that will allow you to use your pedelec in a safe manner. First, please read the safety instructions to find out about the legal regulations that apply to you.

! **Perform all safety checks in accordance with the "Before each trip" section.**

- Fully charge the battery.
- Make sure the battery is securely locked.
- Please make sure your pedelec is adapted to your needs.
- To start the system, press and hold the "⏻" button on the control panel for 3 seconds.
- Select the support level.

! **The pedelec is now ready for operation.**

i Always press the brakes of your pedelec before placing your foot on the pedal! The motor starts assisting as soon as you start pedaling. Without the correct procedure, the pedelec can suddenly start, which can lead to injuries.



! Practice using the pedelec in a quiet and safe environment. It is important to learn the characteristics of the pedelec before you drive on public roads.


! Please also take note of additional user manuals that you received when you bought your pedelec.

1.2 Before Each Ride

i Do not try to ride the bike if you think that your pedelec might be defected. Before the first ride, please make sure that the retailer has checked the complete bike before handing it over to you. It is also recommended to have all components of the bike checked regularly, especially if you ride on a regular basis. If you mistreat the pedelec, it can lead to accidents and injuries.

i Please check the pedelec after an accident or if your pedelec has fallen over.

2 IMPORTANT NOTICE


 Be sure to follow the instructions in the manual when using this product.

- If you are lending your pedelec to third parties, please give them the instruction manual along with the pedelec.
- Read the instruction manual carefully and keep it in a safe place, for future reference.

2.1 For Your Safety

- This product is not suitable for people with physical, sensory or mental disabilities, or children and adults without the necessary experience. Otherwise, the pedelec must be used under the supervision of the guardian responsible for their safety.
- The use of the pedelec is not suitable for children under 14 years of age.
- Before driving, make sure you are familiar with the original features of the pedelec.
- For safety reasons, do not try to focus too much on the display of the pedelec whilst driving. This can be distracting, which can lead to sudden accidents.
- Regularly check the battery charger for damage. Inspect cables, plugs and housings. If damage is detected, do not use the charger until it has been checked or repaired.
- Do not change the system without authorization, otherwise errors may occur which may result in an accident. Also, this can void the warranty.
- This product is waterproof for all types of weather. However, it is strongly recommended not to intentionally submerge the product in water or clean it with a steam jet.


2.2 Pedelec modifications are prohibited


 Do not change the pedelec drive system in any way shape or form. Any operation of the pedelec to improve performance or speed can cause legal problems and make the operation of the pedelec unsafe for use. Also, this can void the warranty.


Legal Implications:

- Before using the pedelec, familiarize yourself with the applicable laws and regulations, as well as with the road traffic code in your Country of origin.
- The performance and warranty of the pedelec are regulated by the manufacturer.





2.3 Installation and Maintenance

 Make sure that the charger is disconnected from the mains before removing from the pedelec. Remove the battery before working on/maintaining the pedelec. Otherwise, it can lead to serious injuries and electric shocks.


 After a fall or accident, the electrical components may be damaged. If you notice damage to the battery, remove the battery immediately, place it in a safe location and contact your retailer.

 Do not replace components, remove or open modules unless you are performing operations described in this Manual. If you have any questions about your system or components, please contact your authorized retailer first. If the battery charger, cable or components are defected or worn out, the components must be replaced. Please use the manufacturer's original


spare parts. Otherwise, the warranty will be void. The use of non-original or incorrect spare parts may cause the pedelec to malfunction. If the product has a defect, please contact your retailer for a replacement part. The authorized retailer can only use the original spare parts from Bafang for maintenance.


-  Do not use no high-pressure water jet or submerge in water to clean pedelec. This can cause water to enter into the electrical components or the drive system and short circuit or damage the system.
-  Dispose of the pedelec/battery according to the rules and regulations of your country's origin. For more information please contact an authorized recycling center or your retailer.
-  Depending on riding conditions and the frequency of use, the service interval may vary. Please keep in mind that the chain should be regularly treated with a suitable chain spray. Under no circumstances should an alkaline or acidic detergent be used to remove rust. When this detergent is used, it can damage the chain or other parts of the pedelec resulting in injury or damage.
-  Only trained personnel can maintain or repair the product.
 - Remove the battery during transport and store the battery in a safe and dry place.
 - Use this product carefully to allow a long service life.
 - It is advised to write down the battery key number and keep it safe, in case of damage or loss.
 - Natural wear and aging of the system is common after a period of time.

2.4 Laws and Regulations

-  Please observe the relevant road traffic rules and regulations of your country.



Before driving on public roads, please read the applicable countries regulations carefully. The use of pedelecs on public roads must comply with local regulations. Contact your local road traffic authority for more information.



-  Incorrect operation of the drive system, battery, charger or drive components can result in injuries. In this case, the manufacturer may refuse liability for the damage caused. Unauthorized changes to the pedelec system can lead to criminal offences, such as a change of the speed limit.

-  Please note the following information:

- Please ensure that the light sensor is in working order, before setting off.
- Please ensure that the braking system is operational before setting off.

3 VEHICLE TRANSPORT

-  Remove the battery during transport and store the battery in a safe and dry place.
-  Do not transport a battery without the correct procedure. Batteries are subject to hazard group 9 and are subject to a separate transport regulation. Please contact an authorized retailer or freight service provider. The battery can be damaged, burned or even explode if handled incorrectly.

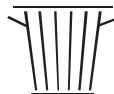
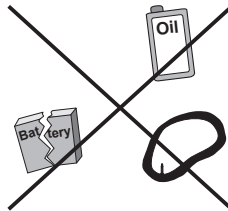
-  When transporting the pedelec by train, the relevant laws and regulations must be complied with. Before using public transport, please find out which means of transport are suitable for transporting the pedelec. It is recommended to remove the battery from the pedelec before transport.
-  When transporting your pedelec, first Remove the battery and keep it in a safe place so it does not move whilst driving. When transporting your pedelec please be sure to use a pedelec carrier.

4 ENVIRONMENTAL TIPS AND HANDLING REQUIREMENTS

General cleaning and maintenance: take environmental aspects into consideration when maintaining and cleaning the pedelec. The product and detergents should be biodegradable. Use these products at any time just, please make sure that no cleaning agent does not get into the sewage.

The battery

Battery used in the pedelec is subject to the Battery Ordinance and may only be disposed of in accordance with the applicable regulations.



5 GUARANTY



All warranty and guarantee conditions are subject to applicable laws and regulations from your brand.

The condition for warranty and guarantee claims is that the instructions for the system are followed carefully.

Liability for material defects does not include normal aging or wear and tear.

Warranty and warranty exclusions:

- Modification, manipulation or improper repair of the product.
- Improper use of the product.
- Damage caused by inconvenience, misuse, negligence, incorrect installation, improper repair, incorrect maintenance or improper use.
- Modifications of the surface structure.
- Damage caused by improper transport or storage caused by the buyer.
- Damage caused by force majeure.
- Removal or alterations of serial number, plates or product markings.

6 USER MANUAL FOR H610 (FM G070.250/350/500.D)



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6.1 INTRODUCTION



- **Product Model**

FM G070.250.D

FM G070.350.D

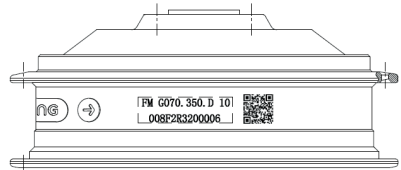
FM G070.500.D

- **Scope**

i Applies only to electrically powered pedelecs developed or licensed by Bafang. It is suitable for bikes, which have been developed for the city road, off road on gravel or sand use. The engine is not suitable for sport competitions.

- **Identification**

The following graphic, is the identification numbers of the product, which are shown on the housing:



Note: Content in the label is important information about this product. Please do not remove the information from the motor.

6.2 SPECIFICATIONS

Motor model: FM G070.250.D / FM G070.350.D / FM G070.500.D

Rated power (W)	250 / 350 / 500
Rated voltage (V)	36 / 43 / 48
Waterproof	IPX5
Certification	CE-EMC
Outdoor Temperatures	-20 °C~45 °C

6.2.1 Surface

Shockproof black and silver coating

6.2.2 Storage Information

The pedelec should be stored in a ventilated dry room. Avoid storing the pedelec near strong magnetic objects.

6.3 MAINTENANCE

- Maintenance must be carried out by authorized personnel with the correct equipment.
- Do not disassemble the motor.
- Do not use thinners or other solvents to clean the components. Such substances can damage the surfaces.
- Avoid water submerging, to keep the components protected.
- Avoid using high-pressure cleaning jets.
- For prolonged storage, turn off the battery and avoid storing near heat sources.

7 USER MANUAL FOR DP C171.CAN



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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 C171.CAN BUS
- The housing material is PC and Acrylic, and the button material is made of silicone.



The label marking is as follows:



i **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

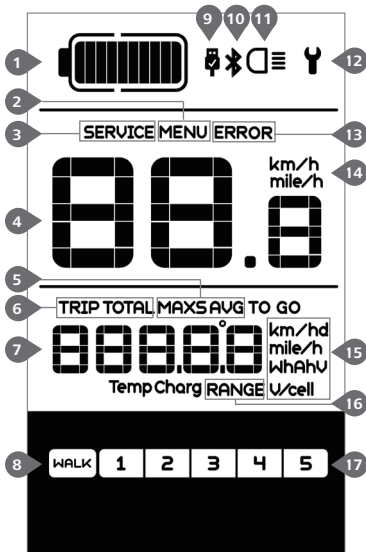
7.3.1 Specifications



- Rated voltage: 36V/43V/48V DC
- Operating temperature: -20 °C~45 °C
- Storage temperature: -20 °C~50 °C
- Waterproof: IP65
- Bearing humidity: 30%-70% RH

7.3.2 Functional Overview

- Speed display (including speed in real time (SPEED), top speed (MAXS) and average speed (AVG), switching between km and miles)
- 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
- USB charge function
- Bluetooth function (it can be connected to the phone to use the Bafang Go APP).
- The SEGMA heart rate monitor can be connected to display the heart rate in real time.

7.4 DISPLAY



- 1 Display of battery capacity in real time.
- 2 Menu.
- 3 Service: please see the service section.
- 4 Digital speed display.
- 5 Speed mode , top speed (MAXS) - Average speed (AVG).
- 6 Kilometer stand, Daily kilometers (TRIP) - Total kilometers (TOTAL).
- 7 Data: Display data, which corresponds to the current mode.
- 8 Walking assistance **WALK** .
- 9 USB charging indicator displays the icon  , if an external USB device is connected to the display.
- 10 Bluetooth indicator.
- 11 The display shows  this symbol, if the light is on.
- 12 Error indicator **Y** .
- 13 Error code indicator.
- 14 Speed unit.
- 15 Unit indicator.
- 16 Remaining distance (RANGE).
- 17 Support level

7.5 KEY DEFINITION



7.6 NORMAL OPERATION

7.6.1 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.

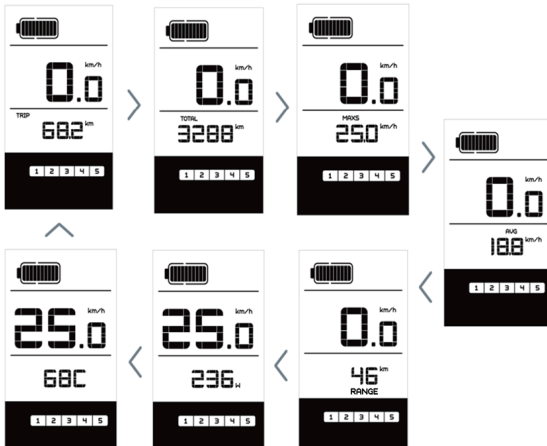
7.6.2 Selection of Support Levels

When the display is turned on, press (<0.5S) the or button to switch to the support level, the lowest level is 1, 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.




7.6.3 Selection mode

Briefly press (<0.5s) 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)).



7.6.4 Headlights / backlighting




Hold (>2S) the  button to activate the headlight and backlight.

Hold (>2S) the  button again to turn off the headlight and 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.)



7.6.5 Walk Assistance

The Walk assistance can only be activated with a standing pedelec.

Activation: Briefly press (<0.5S) the  button until level null, and then press (<0.5s) the  button, the WALK symbol is displayed. Now hold down the  button and the Walk assistance will activate. The WALK symbol will flashes and the pedelec moves approx. 6 km/h. After releasing the button, the motor stops automatically and switches back to level null (if no any option be activated in 5 second). If no speed signal is detected, it shows 2.5km/h.

7.6.6 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%

Bars	Charge in Percentage
2	10%≤C<20%
1	5%≤C<10%
Blinking	C<5%


7.6.7 USB charge function

If an external USB device is connected to the display, the icon  appears, the device will be charged. The maximum charging voltage is 5V and the maximum charging current is 500mA.



7.6.8 Bluetooth function

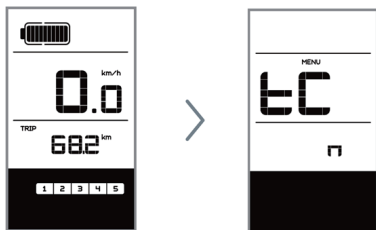
This display can connect via Bluetooth to mobile phone and communicate with Bafang Go APP. The Information of motor, display, battery, sensor and controller information can be displayed on mobile phone, and it can update the firmware of Pedelec by using APP via mobile phone.

If open the APP and connect the display, after connected to the mobile, the Bluetooth  indicator will be lighted as shown below:



7.7 SETTINGS

After the display is turned on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface. pressing the **+** or **-** button, you can select and reset the options. Then press (<0.3S) the **i** button twice to confirm your selected option and to return to the main screen. If no button is pressed within 10 seconds in "MENU" interface, the display will automatically return to the main screen and no data will be saved.

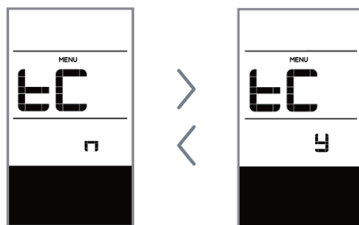


7.7.1 Setting

7.7.1.1 Reset mileage

When the system is on, quickly press (<0.3S) the **i** 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) the **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** button once to save and enter next item "Selection of unit in km/Miles".



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

7.7.1.2 Selection of unit in km/Miles

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, 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) the **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** button once to save and enter next item "Set light sensitivity".



7.7.1.3 Set light sensitivity

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, repetitively press the **i** button until the "bLO" 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) the **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** button once to save and enter next item "Set display brightness".



7.7.1.4 Set display brightness

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, 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) the **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** button once to save and enter next item "Set Auto Off".



7.7.1.5 Set Auto Off

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, 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) the **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** button once to save and enter next item "Service Tip".



7.7.1.6 Service Tip

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, repetitively press the **i** button until the "nnA" appears on the display (as shown below). And then press **+** or **-** to choose between "0" or "1". Chose 0 means turn off the notification.

Once you have chosen your desired selection, press (<0.3S) the **i** 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 "**SERVICE**" is displayed every time at switch on.

7.7.2 View Information

All data in this item cannot be changed, only to be viewed.



7.7.2.1 Wheel Size



When the system is on, quickly press (<0.3S) the  button twice to access the "MENU" interface, repetitively press the  button until the "LUd" 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 next item "Speed Limit".





7.7.2.2 Speed Limit



When the system is on, quickly press (<0.3S) the  button twice to access the "MENU" interface, repetitively press the  button until the "SPL" appears on the display (as shown below).

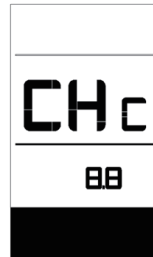
Once you have viewed your desired information, press (<0.3S) the  button twice to save and return to the main screen, or you can press (<0.3S) the  button once to enter next item "Controller hardware info".





7.7.2.3 Controller hardware info



When the system is on, quickly press (<0.3S) the  button twice to access the "MENU" interface, repetitively press 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) the  button twice to save and return to the main screen, or you can press (<0.3S) the  button once to enter next item "Controller software info".





7.7.2.4 Controller software info



When the system is on, quickly press (<0.3S) the  button twice to access the "MENU" interface, repetitively press 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) the  button twice to save and return to the main screen, or you can press (<0.3S) the  button once to enter next item "Display hardware info".




7.7.2.5 Display hardware info


When the system is on, quickly press (<0.3S) the  button twice to access the "MENU" interface, repetitively press 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) the  button twice to save and return to the main screen, or you can press (<0.3S) the  button once to enter next item "Display software info".



7.7.2.6 Display software info



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



the "MENU" interface, repetitively press 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) the  button twice to save and return to the main screen, or you can press (<0.3S) the  button once to enter next item "BMS hardware info".



7.7.2.7 BMS hardware info

When the system is on, quickly press (<0.3S) the  button twice to access the "MENU" interface, repetitively press 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) the  button twice to save and return to the main screen, or you can press (<0.3S) the  button once to enter next item "BMS software info".



7.7.2.8 BMS software info

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, repetitively press the **i** button until the "dSc (Display Software check)" appears on the display (as shown below).

Once you have viewed your desired information, press (<0.3S) the **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** button once to enter next item "Sensor hardware info".



7.7.2.9 Sensor hardware info

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, repetitively press the **i** button until the "SHc (Sensor Hardware check)" appears on the display (as shown below).

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

7.7.2.10 Sensor software info

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, repetitively press the **i** 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 **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** button once to enter next item "Battery info".



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

7.7.2.11 Battery Information

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, repetitively press the **i** button until the "b01" appears on the display (as shown below). You can briefly press **i** (0.3s) to view all information of the battery.

Once you have viewed your desired information, press (<0.3S) the **i** button twice to save and return to the main screen, or you can press (<0.3S) the **i** 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)
b09	Relative SOC (%)
b10	Absolute SOC (%)

Content	Explanation
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 (mV)
d02	Voltage of cell 2 (mV)
dn	Voltage of cell n (mV)

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



7.7.2.12 Message of Error Code

When the system is on, quickly press (<0.3S) the **i** button twice to access the "MENU" interface, repetitively press the **i** button until the "E00" appears on the display (as shown below). You can briefly press **i** (0.3s) to view last ten Error Code "E00" to "E09". Error code "00" means that there is no error.

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



7.8 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 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 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)
05	The throttle has fault.	<ol style="list-style-type: none"> 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)
07	Overvoltage protection	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 maximum protection value	<ol style="list-style-type: none"> 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	<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. If the error persists, please contact your retailer.
25	Torque signal Error	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Check all connections are correctly connected. 2. If the error persists, please contact your retailer.
33	Brake signal has an error (if brake sensors are fitted)	<ol style="list-style-type: none"> 1. Check all connectors. 2. If the error continues to occur, please contact 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	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)