# BAFANG

## Manual

## C961

# Contents

Dear Customer,

Please read this manual before using the C961 Display.

Thank you,

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Appearance and size

## Material & color

The C961 display is made of ABS and is designed to perform well under -20º to 60 º C.
Available colors: Black, White.
Size (Unit: mm)



## Functions & buttons

## Functions

The C961 offers many functions for your riding pleasure.
These Include:
Multiple Power levels settings (Mode)
Remaining Battery Capacity
Speed (Speed/ MAX/AVG)

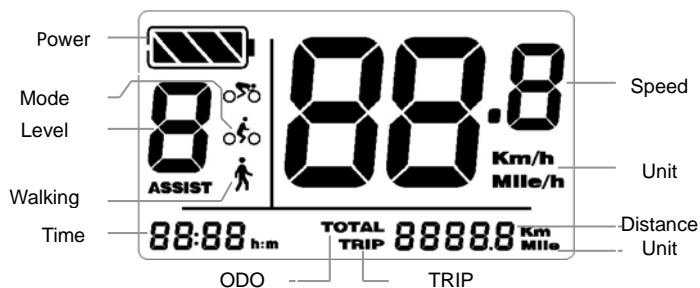Distance and Odometer (TRIP/ TOTAL)

Time

Assist walking (slow speed motor assist)

Backlight

Error codes

## Interface



## Button

C961 includes a three button control electronic switch:



        ⏻ **Power on/off**

        ⊞

        ⊟

**Caution:** Do not plug in or unplug this display when the power to the unit is on.

Avoid collisions

Protect the display's membrane to provide water resistant performance.

Do not attempt to reset parameters if the display is not working.

Call for service if the C961 display is not working

**Installation**

Install the display and button control on the handlebar and adjust its location. Plug it into the controller with power off.

**ON/OFF**

To turn the unit on, press and hold the ⏻ button to start the display. A long press again ⏻ will switch it off.

**The display switches off automatically if there is no activity for ten minutes (default).**

## Walking assist

Press and hold ⊟ to start the walking assist. 🚶 You will see the walking icon on the display and the motor will move the bicycle or vehicle at 6km/h.

⚠️ **This function is designed for walking alongside only. Please do not use this function when riding.**

## Backlight

Press and hold ⊞ to turn on the C961's backlight screen. If a front light is configured as well, this will switch it on as well if front light available. Press and hold ⊞ again to switch it off.

**Note: The automatic backlight is available only if the controller (or built-in controller) offers this function.**

**If the controller has a light sensor inside of it, the back light & front light will switch on automatically according to the level of darkness. The automatic function is off when the display is in manual mode.**

## Power Level

The display is integrated with the controller to provide several levels of power. Press ⊞ or ⊟ to change the levels. The Default range is 0 - 3, where 0 means no output, and 3 means maximum output. The default switch-on is level 1.

## Battery Capacity
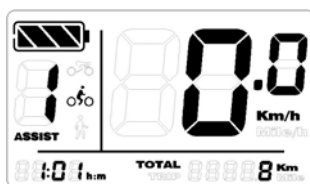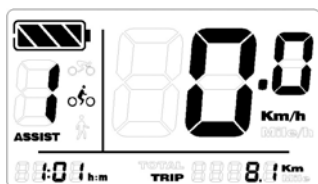
Four sections highlights when battery is full.

Percentage of capacity for sections:



| <20% | 20%-40% | 40%-60% | 60%-80% | 80%-100% |

The battery icon flashes at 1 Hz when low power.

## Distance (trip and odometer)
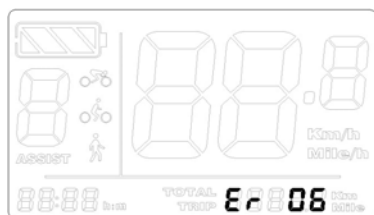
Press ⏻ to shift between TRIP and TOTAL (Odometer).



## TRIP Reset

With the power on, Press and hold both ⏻ and ⊟ to clear TRIP distance.

## Error codes

When something goes wrong with system, an error code will flash on the display. Check details on attached list.



**The motor will stop working in the event of an error.**
**Only when the error is gone, will the motor work again.**
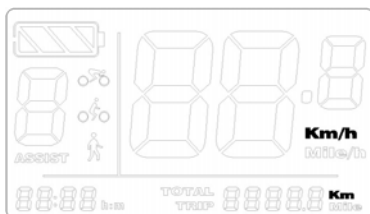
## Display Settings

Makes sure the connections are good, then power on.

**Setting**

Press and hold ⏻ to turn on the display. Press and hold the
⊞ and ⊟ to set the mode.

### *Unit*

Press ⊞ to change unit Km or Mile.



Press ⏻ to save and go to *set speed*.

### *Setting the speed limit*

To limit the speed range (from 15Km/h to 40Km/h), press ⊞
or ⊟ to change the limit up or down.



Press ⏻ to save & go to *set backlight*

### *Backlight*

Press ⊞ or ⊟ to change the brightness (range is 1 to 8).



Press ⏻ to save & go to *time setting*.

### *Time*

Press ⊞ or ⊟ to change the hour, then press ⏻ to save & go to the minute setting. Press ⊞ or ⊟ to change the minutes.
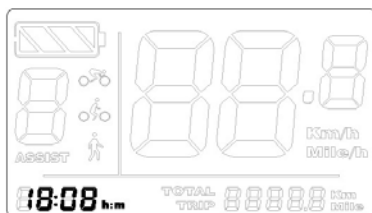


Press ⏻ to save & exit.
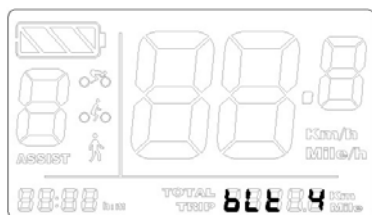
> The settings go into effect after restart.

### **Advanced setting**

Press and hold ⏻ to start the display. Press and hold both ⊞ and ⊟ to enter setting mode



Press ⊞ or ⊟ and <u>do not release</u>, meanwhile press ⏻ eight times to go to the advanced setting menu.

### *Wheel size setting*
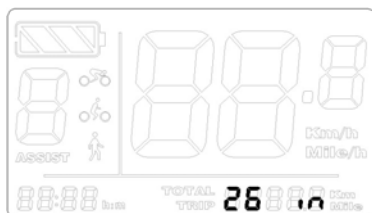


Press ⊞ or ⊟ to change the wheel size. Range from 8 to 32 inch. Press ⏻ to save & go to *sleep time interval* setting.

### *Sleep time interval setting*
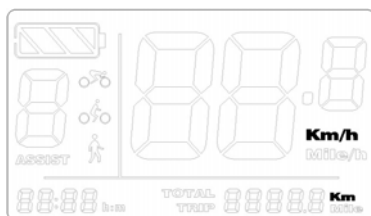
Press ⊞ or ⊟ to change the time, range from 0 to 60 minutes.
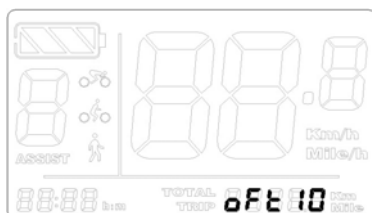


Display will sleep and cut off power after no operation on system for the selected time. Press ⏻ to save and skip to *level amount* setting.

### *Power level amount setting*

Press ⊞ or ⊟ to change the amount. The range from 2 to 9 levels (excluding level 0).

Press ⏻ to save and exit.

⚠ The settings go into effect after restart.

## FAQ

Q: Why does the display not power on?
A: Please check that the battery is connected and has power. Then check all the wires and connections. Then press the ⏻ button again. If this fails, please see your service technician.

Q: What should I do when an error code is displayed?
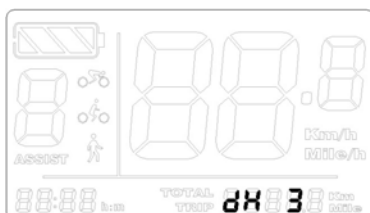A: Please check the error code list. Sometimes powering down the unit (press ⏻), then unplugging the display, leave it unplugged for two minutes and then plugging it back in and turning it on will reset and correct the error. Please call your service technician if the user cannot remove the error.

## Warranty

Suzhou Bafang Electric Motor Science-Technology Co Ltd (hereinafter to be referred as "8FUN") warrants that any products bought from 8FUN that are defective in materials and/or workmanship will be repaired or replaced, as 8FUN elects, if such defect appears within the warranty period as measured from the date of delivery from the factory to the purchaser. The warranty period starts from date of Ex-factory and is in effect for

24 months thereafter.

8FUN limited warranty does not cover or apply to the following:

1) damage, failure and/or loss caused by refitting, neglect, improper maintenance, competition or commercial purpose, misuse, abuse or accident;
2) damage, failure and/or loss caused by shipping;
3) damage, failure and/or loss caused by improper installation, adjusting or repairing.
4) damage, failure and/or loss exclusive to material and workmanship, e. g. , failure to follow instructions by consumers；
5) damage, failure, change and/or loss caused to the product's appearance and surface which does not affect its function.
6) damage, failure and/or loss caused by unauthorized service or installation；
7) damage, failure or loss caused by normal wear and tear
8) damage, failure or loss caused by events beyond the control of 8Fun

8FUN reserves the right to, and is only responsible for, repairing or replacing of the warranted products.

In the event that bike manufacturing or distributing companies encounter quality problems when using or selling 8FUN products, they should report the purchase order number and products'

serial number to 8FUN technology service department who will determine that the products are under warranty. If so, 8FUN will offer repair or replacement for free. All removal, replacement and return-to-factory shipping expenses incurred during the warranty process shall be paid by the customer.

Should 8FUN parts on complete bikes need repair, please contact the bike manufacture or reseller directly. For products bought through channels other than from 8FUN, please contact the reseller directly.

Should the above mentioned warranty contravene existing Chinese laws, subject to state laws, 8FUN reserves the right accordingly to partially or completely modify the warranty without prior notice.

## Software version

   This C961 adopts Bafang protocol V4.0, and is only warranted to work with a Bafang controller installed with this protocol. Errors may occur if used with other protocols.

**Error Codes:**

| Error code | Definition |
|:---:|:---:|
| 04 | Throttle not returning to zero state |
| 05 | Throttle abnormality |
| 06 | Low voltage protection |
| 07 | Over voltage protection |
| 08 | Hall sensor abnormality |
| 09 | Phase line abnormality |
| 10 | Controller overheat |
| 11 | Temperature sensor in controller abnormality |
| 12 | Current sensor abnormality |
| 21 | Speed sensor abnormality |
| 22 | Communication abnormality in BMS |