

# BAFANG

## Manual

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### C963



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## Preface

Dear,

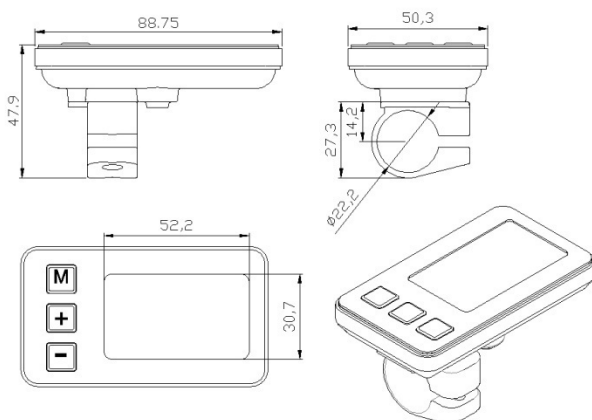
Please read this manual before using it.

## Appearance and size

### Material & color

C963 made of PC is able to work well under  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ .

Picture and size (Unit: mm)



## Function & button

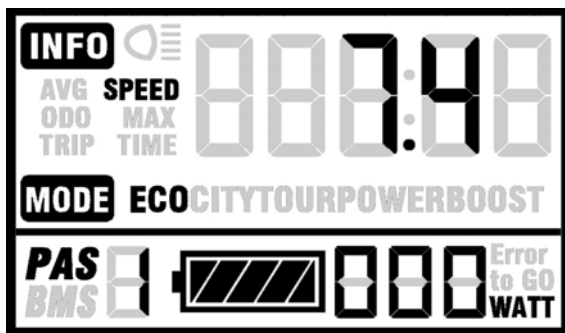
### Function

C963 gets many function for your enjoying riding.




Show context:

- ◆ Capacity
- ◆ Power
- ◆ Speed (Speed/ MAX/AVG)
- ◆ Distance (TRIP/ ODO)
- ◆ TRIP time
- ◆ Assist walking
- ◆ Backlight
- ◆ Error code
- ◆ Configuration setting

### Interface



## Button

C963 gets three buttons: MODE  , UP  and DOWN  .

### Attention:

Don't plug in/out this display when power on.



Avoid collision.



Keep the membrane for waterproof performance.



Don't abuse parameters resetting, in case out of working.





Call service if display out of working.

## Installation

Install display on handlebar and adjust it's location. Plug it into controller when power off.


## ON/OFF

Long press  to start display. Long press  again to switch off. When off, display dose't consume battery. Its leak current <math>< 1\mu\text{A}</math>.



**Display off automatically after no any operation on vehicle for three munites.**

## Display interface

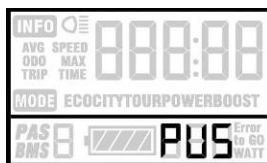
Existing speed is shown in default when on. Press  to change information on screen: Speed → AVG → MAX → ODO → TRIP → TRIP time → Speed.







## Assist walking

Long press **M**, to start assist walking. PUS highlights on scree. Vehicle goes at 6km/h.



Only in case of pushing, can this function be used. Please don't abuse when riding.

## Backlight



Long press  to switch on backlight on scree, and front light on as well if front light available. Long press  again to switch it off.

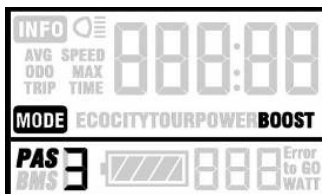


**Note: Automatical backlight is available if controller gets this function.**

**Backlight & front light on automatically according to the lightness outside if controller gets light sensor inside. Automatical function off when manual operation on.**

## Level

Press  or  to change the levels. Default range 0 - 3, 0 no output, 3 max output. Default level 1 when switch on.



## Capacity

Five sections highlights when battery is full. Frame flashes at 1 Hz when low power.

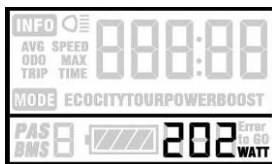


Frame flashes at 1 Hz when low power.



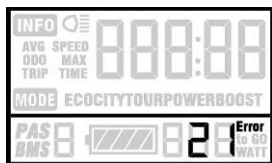
## Power

Output power is available on screen as below:



## Error code

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



**Vehicle stops working in case of any error. Only when error is gone, can vehicle work again.**

## Setting



### Preparation

Makes sure good connection then power on.

### Setting

Long press **M** to start display. Long press **+** and **-** to setting mode.

#### **TRIP clearance**

Bottom left of screen shows set 1.

TC means TRIP clearance. TC-N/TC-Y for option.

Default TC-N means don't, TC-Y means do. Press **M** to save and skip to backlight setting. Or long press **M** to save and exit.



**TRIP & Trip time clearance together.**

## Backlight

Bottom left of screen shows set 2.

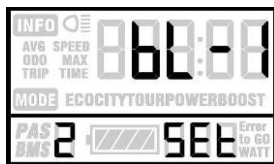
BL meas backlight. Level option 1/2/3.

Default value 1.

Press **+** or **-** to change the brightness. Press

**M** to save and skip to wheel size setting. Or long press

**M** to save and exit.



## Wheel size

Bottom left of screen shows set 3.

LD means wheel size. Wheel option:

16/18/20/22/24/26/28 inch and 700C. Press **+** or **-** to

change the size. Press **M** to save and skip to speed limit

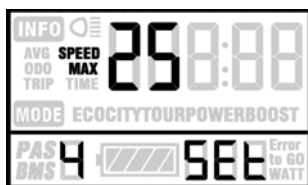
setting. Or long press **M** to save and exit. Default 26 inch.



## ***Speed limit***

Bottom left of screen shows set 4.

LS means speed limit. Limit range from 12Km/h to 40Km/h. Press **+** or **-** to change the limit. Press **M** to save and loop to TRIP setting . Or long press **M** to save and exit. Default 25Km/h.



## **FAQ**

Q: Why can't it be on?

A: Please check power on/off and wires.

Q: What to do to when error?

A: Please check the probable problem according to the error code list. Please call service if user can't remove error.

## **Warranty**

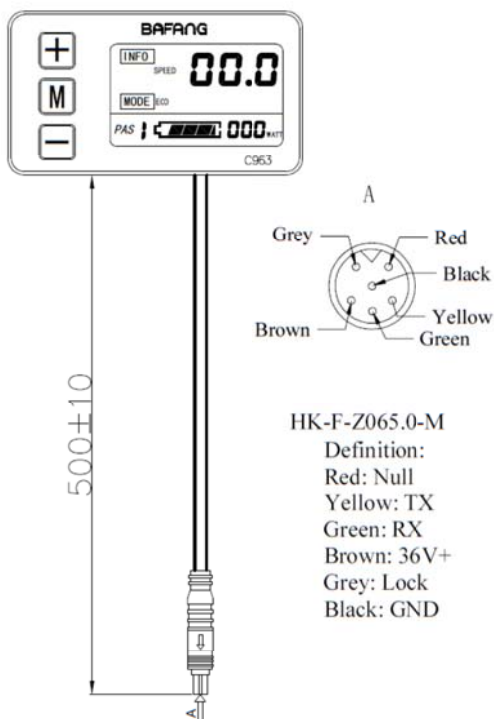
Under warranty:

- 1\ Warranty term 24 months.
- 2\ Problems due to quality problem within 24 months.

Beyond warranty:

- 1\ Opened display.
- 2\ Connector gets damaged.
- 3\ Scratch or damage on housing after delivery.
- 4\ Wire gets scratch or broken.
- 5\ Damage result from Irresistible accident such fire or earthquake hazard, and other natural hazard such as thunderstrike.
- 6\ Over warranty.

Wire definition:





## **Software version**

This C963 adopts Bafang protocol V4.0, and only communicate with controller installed this protocol. Error may happen if with other protocol.

**Attached list:**

Error code	Definition
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
13	Stator overheat
14	Temperature sensor in motor abnormality
21	Speed sensor abnormality
22	Communication abnormality in BMS
23	Front light abnormality
24	Front light sensor abnormality
30	Communication abnormality in system