



LCD DISPLAY SPECIFICATION

(TYPE: C950)

Version: V1.0

SUZHOU BAFANG ELECTRIC MOTOR SCIENCE-TECHNOLOGY CO.,LTD

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Company Introduction

Suzhou Bafang Electric Motor Science- Technology Co., Ltd is located in Suzhou Industrial Park, at the center of Yangtze River Delta, endowed with convenient transportation for both international and domestic business. Bafang company was founded in 2003, which is a high-tech enterprise of electric drive system, combining design, R&D, manufacturing and sales.

We have more than 260 employees, more than 35 senior engineers in R & D department, be able to accept of various challenging projects. Our well-established quality control system, advanced motor and controller production, and testing equipment, as well as high-level R&D and testing center enable us to deliver high quality products consistently. Now our annual production capacity reaches 1,000,000 sets.

Your dream, our goal!

C950 LCD Display Specification

1 Material and waterproof grade

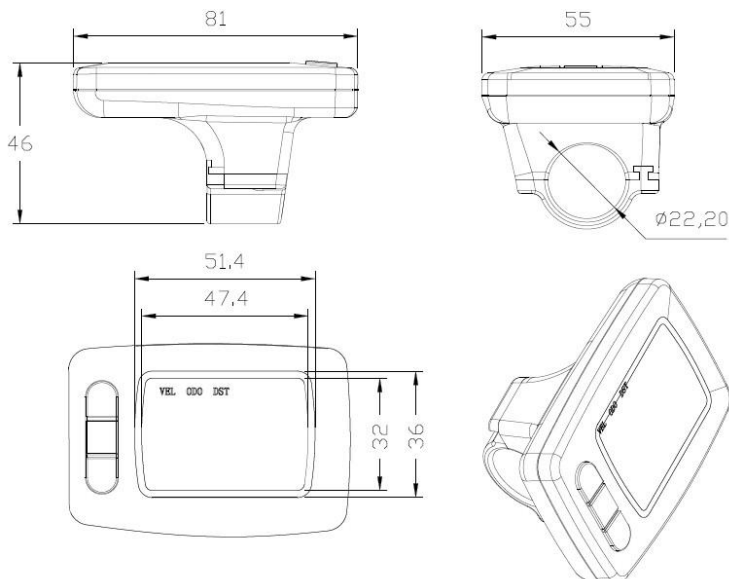
Display's casing use black/silver ABS materials, display window use acrylic white transparent material.

Working temperature of display: - 20°C - 80°C.

Waterproof grade: IP65.

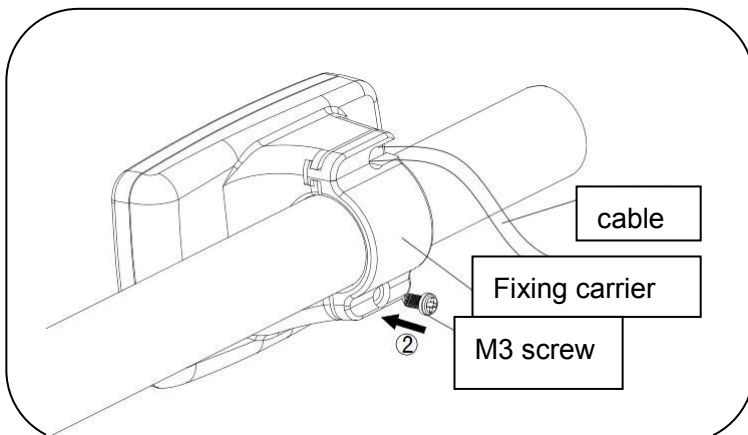
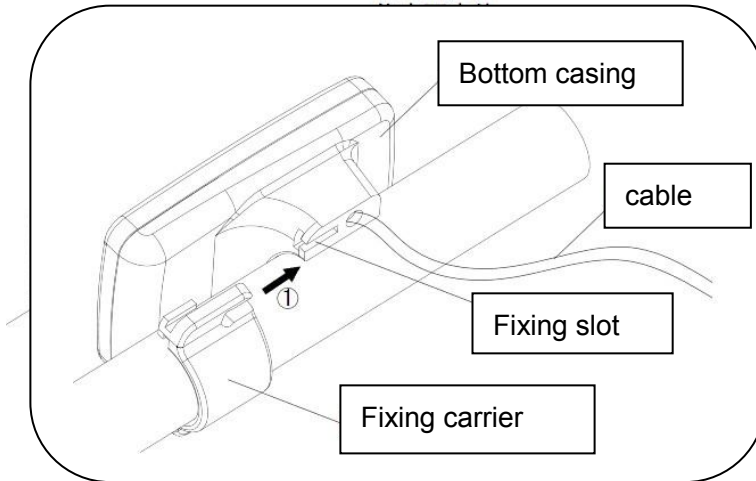
Ultrasonic is used for welding casing and display window.

2 Dimension (unit: mm)



3 Installation instruction

Fix the display onto the handlebar and adjust to an appropriate visual angle, use a screw to fix the carrier onto bottom casing, then plug display connector with controller connectors, that's all.






4 Button definition

C950 display is equipped with integrated buttons. The three buttons are installed on the left side. The shape and location is as below:



 **interruttore di alimentazione del sistema**
System power switch

 **Selezione modalità** **insieme a**  **per modificare le opzioni**
Mode selection, together with  for setting

 **Premendo il tasto ripetutamente si ottiene:**
Retroilluminazione del display, visualizzazione della velocità, distanza percorsa
back light switch, speed, mileage switch

5 Display Area

Display area includes battery capacity, riding mode, riding speed, single riding distance, total riding distance, and malfunction code of the electronic control system. Display area is as below:



Mode 1: walking assistant mode


Mode 2: economic mode

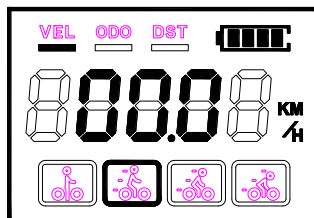
Mode 3: sports mode

Mode 4: power mode

6 Power on

First open the electric vehicle battery power.


Then press  to open system power (display below black font when power on)



press  and choose favorite mode (refer to 2.7.1)

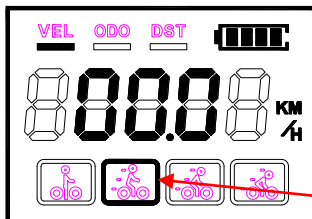
7 Adjustment

7.1 Mode selection

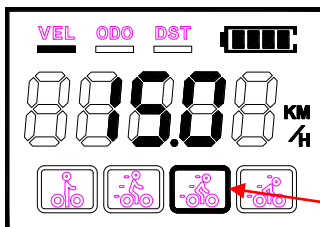
When e-bike power on, default mode is economic mode, press  0.5s to select mode, economic mode, sports mode and powerful mode will be cyclic in order as following:

Quando il display è acceso, la modalità è impostata automaticamente su modalità economica (assistenza minima). Premere il tasto "MODE" per 0,5 secondi per selezionare un'altra modalità.

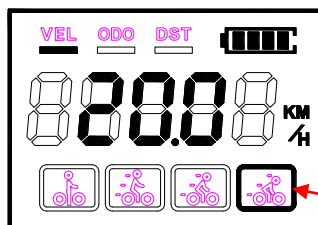
Le modalità sono 3: economic - sport - power



economic mode





sports mode

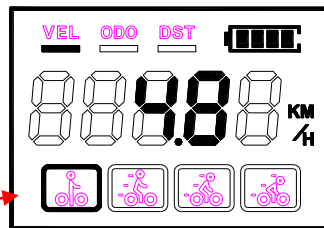


power mode

7.2 Walking Assistant

Per utilizzare la modalità Walkig Assistant (Assistente di passeggiata), cioè per far avanzare la bicicletta a 6 mentre si è a piedi e non si vuole spingere la bicicletta, **TENERE PREMUTO IL TASTO "MODE"**.
Per **INTERROMPERE** la modalità Walking Assistant, **RILASCIARE IL TASTO "MODE"**

Hold  to enter walking assistant mode. The e-bike will go on at a uniform speed below 6 KM/H. Release , the e-bike goes back to previous state, interface is as below:





Walking assistant mode

ATTENZIONE: UTILIZZARE LA MODALITÀ WALKING ASSISTANT SOLO QUANDO NON SI È IN SELLA E SI CAMMINA A PIEDI. NON UTILIZZARE QUESTA FUNZIONE MENTRE SI PEDALA

Warning: walking assistant function can only be used when the user is pushing the e-bike. Please don't use this function during riding.

7.3 Backlight turn On/Off

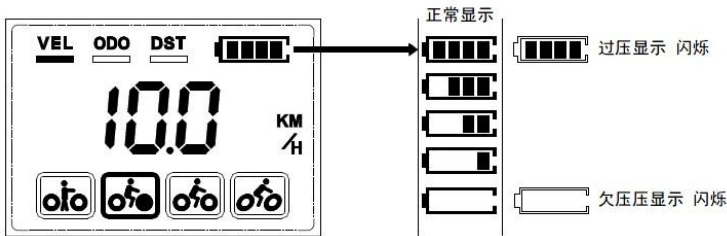
When the surrounding light is not enough or in the evening, turn on the backlight. Hold  0.5s to switch on the backlight. Hold  0.5s again to switch off the backlight.

**PER ACCENDERE LA RETROILLUMINAZIONE TENERE PREMUTO IL TASTO PER 0,5 SEC.
PER SPEGNERE LA RETROILLUMINAZIONE TENERE PREMUTO IL TASTO PER 0,5 SEC.**

7.4 Electric capacity display

When the battery capacity is overvoltage, the four battery segments are all lighted and the battery display frame will flash. When the

battery capacity is normal, the four battery segments lighten according to actual capacity. When the battery is under voltage, four battery segments switch off and battery display frame will flash with the frequency of 1 HZ, to remind user to recharge battery immediately.



7.5 Speed and mileage switch


COME PASSARE DALLA VISUALIZZAZIONE DELLA VELOCITÀ TENUTA ALLA VISUALIZZAZIONE DELLA DISTANZA PERCORSA

When power on, display shows the current speed automatically. Hold

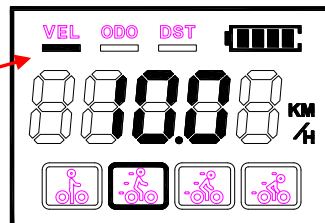


3s switch to total distance. Hold the



3s again switch to single riding distance. Hold  3s again display will switch back to current speed. Do this in turns and interface is as below:

velocità corrente
current speed



Quando il display è acceso visualizza automaticamente la velocità corrente.

TENERE PREMUTO IL TASTO "LUCI" PER 3 SEC. per passare alla visualizzazione della DISTANZA COMPLESSIVA PERCORSA (tutta la distanza percorsa dal motore fin dall'installazione, ndr.).

TENERE PREMUTO IL TASTO "LUCI" PER 3 SEC. per passare alla visualizzazione della DISTANZA PERCORSA NEL SINGOLO GIRO (credo, dall'accensione del display, ndr.)





MODIFICA DEI PARAMETRI

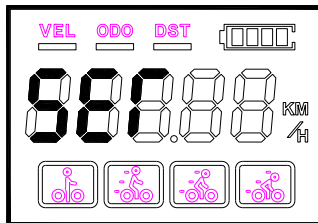
8 Parameter setting

MODIFICARE QUESTI PARAMETRI SOLO SE SI HANNO LE COMPETENZE NECESSARIE

Parameter setting includes: wheel diameter setting(8inch~28inch) and battery voltage setting (24V、36V). (The display is set already, do not set it again except the user has special requirements.)

Put the power on, hold  and  together 3s to go the setting state, the interface is as below:

I PARAMETRI CHE POSSONO ESSERE MODIFICATI SONO:
 1-DIAMETRO DELLA RUOTA (da 8 a 28 pollici)
 2-VOLTAGGIO DEL MOTOTRE (24V-36V)





Per entrare in questa modalità, tenere premuti contemporaneamente i tasti "MODE" e "LUCI" per 3 sec. fino a quando sul display non appare "SET" (v. la schermata sulla sinistra, ndr.)

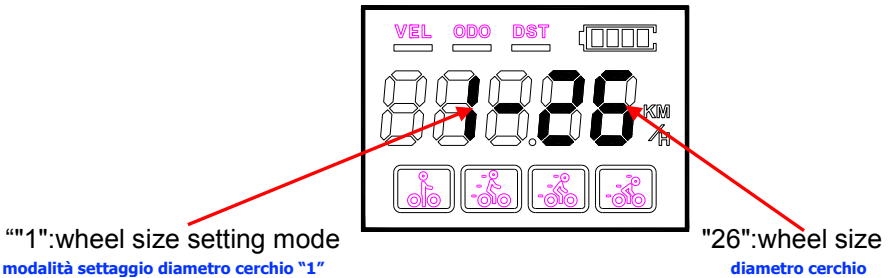
8.1 Wheel size setting

MODIFICARE IL DIAMETRO DELLE RUOTE

(per fare in modo che il sensore di velocità indichi correttamente la velocità tenuta e misurari correttamente la distanza percorsa)

Hold  0.5s to go into the wheel size setting state, hold  0.5s to choose the right wheel size to make sure the speed and distance's

accuracy. Wheel size includes 08、10、12、14、16、18、20、22、26、28, choose in turn, interface is as below:

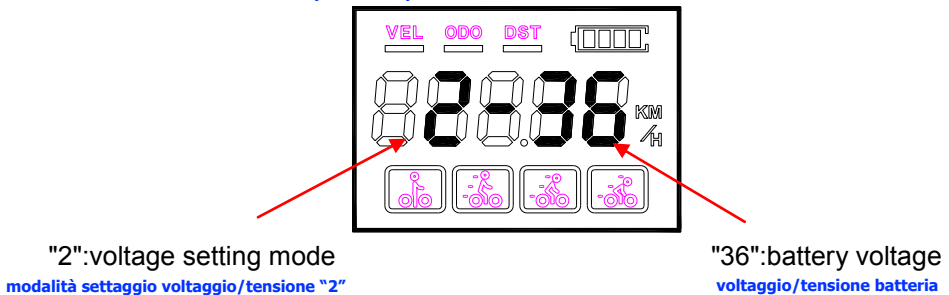


8.2 Battery voltage setting

Una volta entrati in “SET” e dopo aver impostato il diametro del cerchio, premere per 0,5 sec. il tasto “MODE” per entrare nell’impostazione del VOLTAGGIO DELLA BATTERIA

Hold 0.5s to go to voltage setting interface, hold 0.5s to choose right voltage to make sure the display works normally. There are two options of 24V and 36V, choose it in turn, interface is as below:

Premere per 0,5 sec. il tasto “LUCI” per scegliere il voltaggio (o tensione) corretto della batteria utilizzata. Si possono impostare solo due valori: 24v o 36v



8.3 Single mileage reset

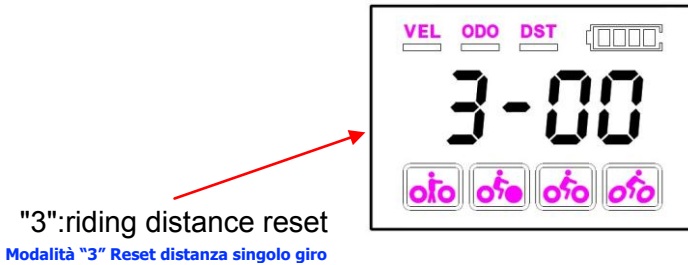
Come resettare la distanza percorsa nel singolo giro
(questa modifica non cancella la “DISTANZA COMPLESSIVA”, ndr.)

Press 0.5s to go into the single riding distance setting interface,

press 0.5s to clear the riding distance to zero, interface is as

Premere ancora il tasto “MODE” per 0,5 sec. per entrare nella modalità “3” del settaggio, quindi premere per 0,5 sec. il tasto “LUCI” per cancellare il valore della distanza del singolo giro e portarlo a “00”.

below:



8.4 Exit the setting state

PER USCIRE DALLA MODALITÀ "SETTING" PREMERE CONTEMPORANEAMENTE I TASTI "MODE" E "LUCI" PER 3 SEC. .

In the state of parameter setting, hold and for 3s to save the current settings and exit the setting interface.

Attention: With no action for 5 seconds, it will exit the setting interface automatically, and the adjustment will not be saved.

SE NON SI COMPIONO AZIONI PER 5 SEC. SI USCIRA DALLA MODALITÀ "SETTING" AUTOMATICAMENTE, MA LE MODIFICHE NON VERRANNO SALVATE

9 Power off

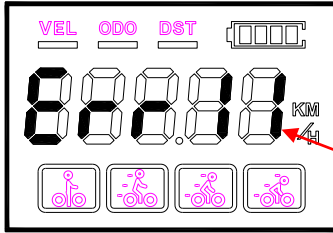
Hold for 3 seconds to switch off display.

Power will be switch off automatically with no action of e-bike for 5 minutes.

Suggestion: Switch off the battery and storage it in a right way, if the e-bike won't be used.

10 Malfunction Code

If any errors appeared in electronic control system, the display will show the error code automatically. For example:



"11": Temperature sensor inside of controller has problem

Note: The display can't quit the malfunction code interface until the malfunction is solved. The e-bike can not work when it is in malfunction code display state.

No.	status data	meaning
1	0x01	Normal condition
2	0x03	Have braked
3	0x04	Brake lever didn't return to the location
4	0x05	Brake has problem
5	0x06	UVP
6	0x07	OVP
7	0x08	Motor hall sensor has problem
8	0x09	Motor phase wire has problem
9	0x10	Temperature inside of controller has reached the protection temperature
10	0x11	Temperature sensor inside of controller has problem
11	0x12	Current sensor has problem
12	0x13	Temperature inside of battery is un-normal
13	0x14	Temperature sensor inside of battery has problem
14	0x21	speed detect sensor inside of motor has problem
15	0x22	BMS communication has problem

16	0x23	light has problem
17	0x24	light sensor has problem
18	0x30	communication has problem