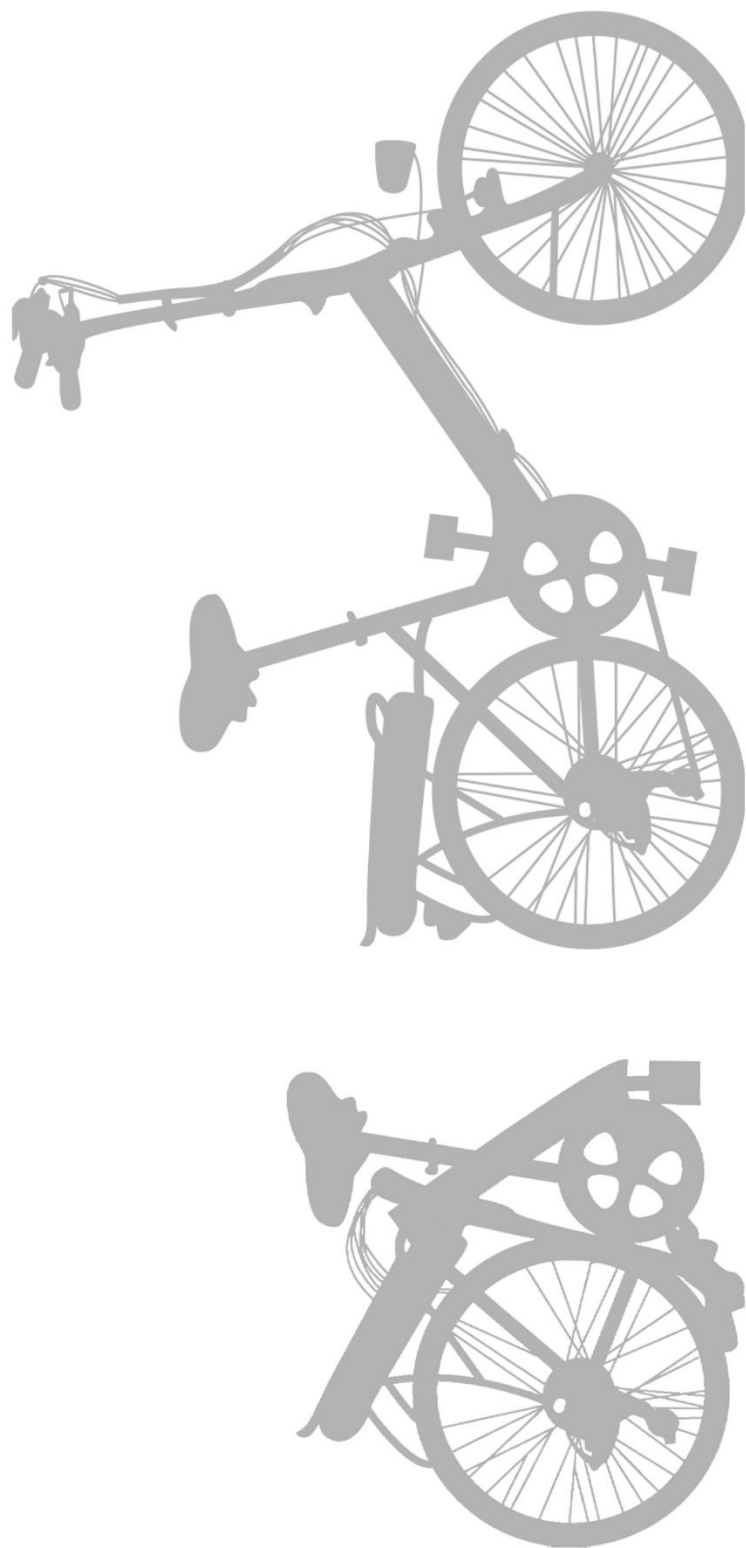


CE ORIGINAL MANUAL



WWW.LACROS.NL

ELECTRIC (FOLDING) BIKES FROM THE NETHERLANDS  
INTELLIGENT, RELIABLE AND COMFORTABLE



**CE ORIGINAL MANUAL**  
(TRANSLATION OF THE ORIGINAL INSTRUCTIONS)

**BAFANG LCD DISPLAY**

## For your safety

Your safety is very important, so read the following safety advices carefully. More safety tips are listed further in the manual:

1. The LACROS Electric bike is equipped with an electromotor. It is very important that you are familiar with the bike as soon as possible. We advise you to choose the first "practice rides" for easy roads with little traffic and a smooth road surface.
2. When you want to ride, do not stand on the pedal, but first sit on the saddle and then start pedaling.
3. Ride the first rides preferably without electrical support to get familiar with your bike. After this you can start with a low setting (motor support).
4. The LACROS bicycles have been tested by our employees. If you have any doubts about the bicycle and/or the electrical installation of the bicycle, please contact us immediately.
5. Never expose the battery and the charger directly in the sun or heat surfaces. The battery is protected against heat, but heating is better avoided.
6. Never use a charger other than the one supplied by Shinga B.V. It is very important for your safety to always use the original charger.
7. The brakes are equipped with an "ABS" protection. As a result, the support stops when you use the brakes.
8. We recommend wearing a helmet while cycling.

The LACROS bicycles are delivered in accordance with the most recent European guidelines (page 3), if you have any questions or comments, do not hesitate to contact us.

We are always available for users of LACROS bicycles:

E-mail: [service@lacros.nl](mailto:service@lacros.nl)

Phone: +31 73 203 2487

Thank you for your trust,



Ton van den Oetelaar

Director Shinga BV

---

## **Review documentation EMC-directive: 2014/30/EU Machine directive: 2006/42/EG**

Your product is an electric folding bike. The bicycle can be folded at 2 locations, on the handlebar stem and halfway at the frame. The bike is equipped with a pedal support system which is powered by an external battery. The battery can be in different locations, such as on the luggage carrier or in the frame. The battery is charged via an external charger. This external charger is a separate product and is already provided with a CE mark (for example, the Low Voltage Directive and the EMC Directive).

The input voltage of the battery is 36V, the motor has a power capacity of 250W and the maximum speed of the bike is 25 km/h.

Guidelines:

Based on the above product description, the following guidelines apply:

- EMC-directive: 2014/30/EU
- Machine directive: 2006/42/EG

The Low Voltage Directive does not apply because the input voltage is only 36V. The charger of the battery is separately marked with a CE mark.

Based on the above guidelines, a number of (corresponding) standards apply.

The following relevant documents must be mentioned in this context and are also used as input for all other documentation:

- NEN-EN 15194:2015 Cycles (Electrically power assisted cycles - EPAC Bicycles)
- NEN-EN-ISO 4210-1:2014 and
- EN ISO 12100:2010

---

## Table of contents

For your safety.....	2
Review documentation EMC-directive: 2014/30/EU Machine directive: 2006/42/EG.....	3
1. How to use the display.....	5
2. Other functions.....	6
3. Safety rules.....	10
4. Warranty provisions and legal requirements.....	11
Battery warranty.....	11
5. Technical specifications.....	12
9. EC declaration.....	13

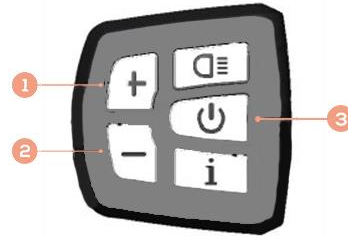
# 1. How to use the display

## Function control unit

1 = increase motor support

2 = decrease motor support  
(Press and hold to activate Walk Assist)

3 = on/off button  
(Press 2 seconds to turn on/off)



A = light (Press 2 seconds to turn on/off)

B = mode button



## Display Symbols

A = battery indication

B = lights

C = walk assist

D = service indication

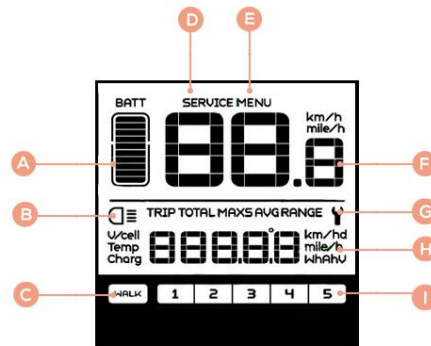
E = menu

F = km/h indication

G = maintenance symbol

H = mileage

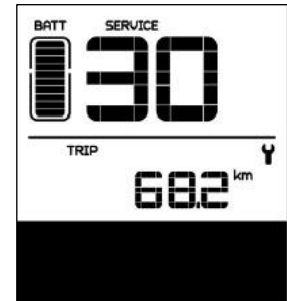
I = level motor support



## 2. Other functions

### Known error messages

In the event of a fault, an error message will appear with the associated error code. Do not use the bicycle and contact Shinga as soon as possible.



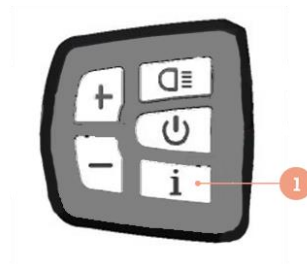
03: Brake (cable) error	(Contact your Shinga dealer)
04: Throttle error	(Contact your Shinga dealer)
05: Throttle error	(Contact your Shinga dealer)
06: Low battery voltage	(Check your battery and charger connection)
07: High battery voltage	(Contact your Shinga dealer)
08: Motor error (hall signal cable)	(Contact your Shinga dealer)
09: Motor error (phase cable)	(Contact your Shinga dealer)
11: Sensor error (controller temp.)	(Contact your Shinga dealer)
12: Sensor error (current)	(Contact your Shinga dealer)
13: Battery error	(Check if your battery is not too hot)
21: Sensor error (speed)	(Contact your Shinga dealer)
22: Battery error (BMS)	(Replace battery)
30: Communication error (Controller)	(Contact your Shinga dealer)

## Advanced settings

**Warning!!** These advanced settings should only be changed by Shinga or a Shinga service dealer. Shinga is not responsible for consequences resulting from changes made to the settings without the proper permission of Shinga. The settings are set up in accordance with European regulations.

### To access the menu

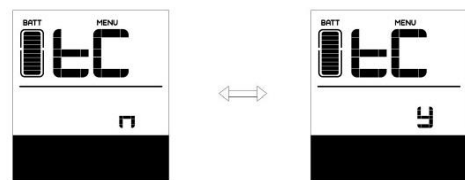
Press (A) simultaneously for 2 seconds to enter the menu. You can navigate through the menu with short press (A). To change the value of a setting, press (+) or (-).



### Reset Trip (TC)

Data that can be deleted are Trip mode, average speed (AVG Speed), maximum speed (MAXS). Confirm by pressing the (i) button for 2 seconds.

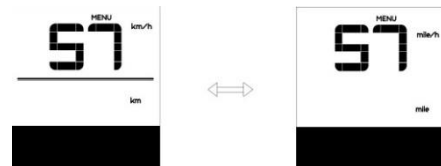
Note: Data is not deleted by turning off the display!



### Speed display

Change display mph to km/h by pressing the (+) or (-).

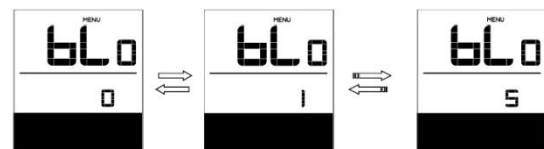
Confirm by pressing the (i) button for 2 seconds.



### Light sensitivity display (BL0)

Adjust light sensitivity with the (+) or (-) button from dark (0) to light (5).

Confirm by pressing the (i) button for 2 seconds.



### Brightness backlight display (BL1)

Adjust the backlight brightness with the (+) or (-) button from dark (1) to light (5).

Confirm by pressing the (i) button for 2 seconds.



**Display auto off (OFF)**

Choose a value between 1-9 minutes for it to turn off the display automatically.

Confirm by pressing the (i) button for 2 seconds.

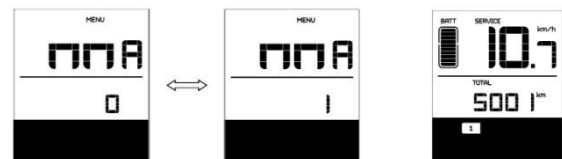


**Maintenance notification (MMA)**

0 = off / 1 = on (default inactive)

A maintenance interval can be set to show a (service) symbol after an X-number of kilometers. A battery charging cycle (eg. 100 times) can be set to show a (service) symbol.

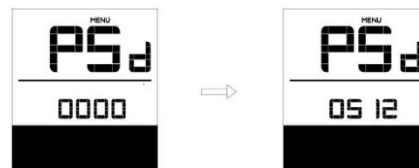
Confirm by pressing the (i) button for 2 seconds.



**To access the secondary menu (PSD)**

The password is set to 0512 by default. The value can be set with the (+) or (-) button.

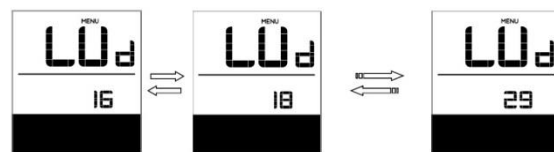
Confirm each entry by briefly pressing the (i) button.



**Wheel diameter (LUD - secondary menu)**

Select the correct wheel diameter with the (+) or (-) button. Selection options are 16, 18, 20, 22, 24, 26, 700cc, 28 and 29.

Confirm by pressing the (i) button for 2 seconds.



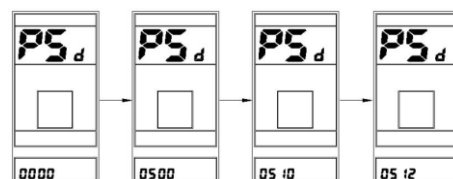
**Note: Entering the wrong value can lead to incorrect display of data and abnormal behavior of the bicycle.**

**Change password (PSD - secondary menu)**

With the (+) and (-) button you can enter a values from 0-9.

Confirm each entry by briefly pressing the (i) button.

(Default password = 0512)





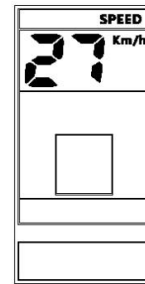
**Set maximum speed (SPEED - secondary menu)**

Set maximum speed by pressing the (+) or (-) button from 10-45 Km/h\*.

\*Default = 27 Km/h

Confirm by pressing the (i) button for 2 seconds.

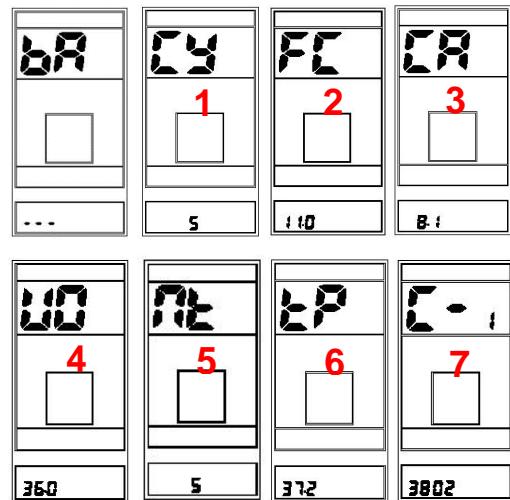
**Note: Local traffic rules must be followed.**



**Battery information (if applicable)**

Press the (-) + (power) buttons simultaneously for 3 seconds to enter the battery information screen. The following information can be displayed:

- 1 = number of times the battery has been used (cycle)
- 2 = total battery capacity (AH)
- 3 = remaining capacity (AH)
- 4 = total battery voltage (V)
- 5 = No maximum loading time (hour)
- 6 = Battery temperature (Celsius)
- 7 = single battery string voltage (mV)



**Note: When the battery information can be read correctly, the information will be displayed. When the information cannot be read correctly, an error message will appear and the display will return to normal mode.**

### 3. Safety rules

- Read your bicycle's manual carefully before your first use.
- Follow the traffic rules strictly.
- Never dismantle the bicycle yourself. Contact your Shinga B.V supplier for the device component.
- Do not lend your bicycle to people with little experience on an electric bicycle.
- Do not ride under the influence of drugs or alcohol.
- Never load the bike exceeding its maximum capacity.
- Do not modify your vehicle yourself. As a result, the warranty and liability will expire.
- The maximum speed of the vehicle is 25 Km/h.
- If the front fork, steering column or handlebars are bent after an accident, they must never be bent back to their original position to prevent breakage. Contact your Shinga dealer or Shinga B.V directly. to have the damaged parts replaced.

## 4. Warranty provisions and legal requirements

### Battery warranty

The supplier of your battery gives a warranty on any material and construction errors to your battery if the following conditions are met:

You can only claim the warranty if you can show a warranty or proof of purchase. The warranty period starts on the day of delivery. The guarantee expires if depth discharge has been determined on the battery.

The manufacturer is not responsible for accidents or malfunctions in the battery caused by the use of the battery which is against the advice of Shinga B.V. or its dealers.

### E-bike warranty period

We provide a 2-year manufacturer's warranty on all running bicycle parts of your new bicycle. The electrical components of your e-bike (display, motor and battery) also have a 2-year manufacturer's warranty.

Excluded from the guarantee are parts that show normal wear and tear, including (inner) tires, saddle, cables and lighting. It is therefore important to properly maintain your bicycle and regularly check it for wear. You also have a 10-year manufacturer's warranty on the frame.

**Do not clean the bike with a high-pressure cleaner. A powerful jet of water can damage the electronics. The warranty then expires.**

### Legal requirements

According to European legislation, the vehicle described is a bicycle because the vehicle complies with the following rules:

- From 6 Km/h, the support is only active when the user is pedaling.
- The support is active up to a maximum of 25 Km/h.
- The power supplied is a maximum of 250 watts.

According to Dutch law, the vehicle described is a bicycle because the vehicle has the following components:

- Two independent, well-functioning brakes.
- Headlight with white or yellow light & rear light with red light and a reflector.
- Wheel reflector and/or reflective tires and/or reflective rims.
- Pedals with yellow reflectors.

### Environment

In accordance with the environmental regulations for the collection and processing of batteries from the Ministry of Housing, Spatial Planning and the Environment, we recommend that you always return it to your dealer or Shinga B.V in the event of a battery defect. This is required to take the battery and takes care of the further processing of the battery.

### Periodic maintenance and malfunctions

Your e-bike needs regular maintenance. Shinga B.V. or your dealer can advise you on the optimal use and maintenance of your e-bike. If you have questions or problems with your e-bike, please contact your dealer or Shinga B.V.

## 5. Technical specifications

- Item: multifunction display
- Nominal motor voltage: 36V - 48V
- Nominal motor power: 250W - 350W
- Nominal current: 10 mA
- Maximum operating current: 30 mA
- Operating temperature: -18/ +60 °C
- Splash-proof Polycarbonate housing

## 9. EC declaration

<b>Supplier:</b>	<b>Technical Files:</b>	<b>Manufacturer:</b>
SHINGA B.V. MOLENDIJK ZUID 23B 5482 WZ SCHIJNDEL THE NETHERLANDS	VAN DEN OETELAAR (SHINGA B.V.) MOLENDIJK ZUID 23B 5482 WZ SCHIJNDEL THE NETHERLANDS	SHINGA B.V. MOLENDIJK ZUID 23B 5482 WZ SCHIJNDEL THE NETHERLANDS

Product: LCD display

Model: C966

Name: Bafang LCD Display

THIS E-BIKE IS MANUFACTURED ACCORDING AND IN APPLIANCE WITH EUROPEAN UNION GUIDELINES AND REGULATIONS CONCERNING ELECTRIC BIKES WITH A MAXIMUM SPEED OF 25 KM/HOUR AND A MAXIMUM MOTOR OUTPUT OF 250W

THE FOLLOWING "EN" (ISO) STANDARDS APPLY:

EN ISO 12100:2010; EN 15194:2009; EN 14764:2005; EN 349:1993+A1:2008; EN 953:1997+A1:2009; EN 13857:2008

EU GUIDELINES APPROVAL:

2006/42/EC MACHINERY DIRECTIVE; 2006/95/EC LOW VOLTAGE DIRECTIVE; 2004/108/EC  
ELECTROMAGNETIC COMPATIBILITY DIRECTIVE

ELECTROMAGNETIC COMPATIBILITY DIRECTIVE (2014/30/EU), MACHINE DIRECTIVE (2006/42/EC)

EC EXECUTIVE BODY CERTIFICATION: ENTE CERTIFICAZIONE MACHINE S.R.L., VIA MINCIO 386, 41056  
SAVIGNANO, ITALY; NOTIFIED BODY EC TYPE OF RESEARCH NUMBER: 1282

CERTIFICATE NUMBER: 111123/ZJV845

CERTIFICATE DATE: NOVEMBER 2011