



BRINCKERS

**Additional User manual for models
with a Bafang C300 LCD display**

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Introduction

Congratulations on your new Brinckers bike!

We are delighted that you have chosen for our beautiful brand: this bike will ensure many hours of fun and carefree cycling. Brinckers bicycles are produced with great care and are assembled with the best parts. This is entirely done to provide a safe and comfortable cycling trip for you!

Through this manual you will discover all the opportunities you have with your Brinckers bike, as well as tips to keep your bike in perfect condition. Furthermore, the manual contains a couple of important safety instructions: we strongly recommend you to follow these instructions to ensure your safety and those of others.

To make sure you fully enjoy your new bike, we advise you to maintain the bike and have it checked regularly (at least once a year) at your Brinckers dealer. This manual provides basic instructions on how to use your bike. For maintenance and repair you are always welcome to swing by one of our service partners.

We wish you a lot of cycling fun!

1. Battery & first use

1.1 First checks

Make sure to check the state of charge of the battery before you start your first ride. Batteries are best stored with half (or less) charge so it's pretty common that you have to charge the battery before your first ride.

Push the button on the battery to see the state of charge. The amount of LED's will show you the actual state.

■ *Please note: a battery is only fully charged when the LED on the charger shows green. Always inspect your battery on damage and make sure not to drop your battery on the floor. Do not use a damaged battery. When in doubt, go see a specialist.*

1.2 The battery charger

When you connect the battery to the charger a red LED should lit. This LED keeps red until the battery is fully charged. Then the LED will turn green. The charger stops charging when the LED turns green. We kindly advise you to remove the charger when ready.

■ *CAUTION: when all battery LED's are lit this does not have to mean the battery is fully charged. Only when the charger shows green the battery is fully charged.*

Since a battery is a wearing part it will take longer to charge a battery the older it gets. Just like your smartphone. The best result is achieved when charging around 21 degrees "room temperature" It could take 4-6 hours for a battery to get fully charged. The older the battery is the longer it will take.

Tip: Batteries will wear the least when used between 80-20% state of charge.

1.4 Battery do's and don'ts

- The state of charge LED's show a % of the current state of charge: 4 LED's is 25% per LED.
 - When only 1 LED is lit you'd better charge first.
 - Various displays show a more accurate state of charge.
 - You can save a lot of battery power by launching in a lower gear and using a lower power assistant level.
 - When building up speed you should change gears along with the speed to achieve the most efficient momentum.
 - Always avoid stop and go's in a higher gear level.
 - When cycling with headwind or when climbing it's better to keep your cadence higher.
 - Try to avoid to empty the battery completely as this will cause extra wear.
 - We advise to charge your battery when the state of charge is below 20-30%. This will reduce wear and provide you the best riding conditions.
 - Batteries are best kept dry and ventilated with a temperature of about 20 degrees
 - Avoid leaving the battery on the charger for a longer period.
 - Avoid leaving the battery exposed in sunny conditions
 - When you don't use the bike it's advised to charge the battery to 60% at least once per two months.
- You can always charge the battery. It does not harm to charge more often or when the battery is already at 50%.
 - When temperature drops, also the battery performance will drop. Best efficiency is around 10-20 degrees °C. Also charging will take longer. Performance can even drop to 30% decrease.

1.5 Battery safety instructions

Read all safety rules and instructions. Failure to observe the safety instructions and instructions could result in electric shock, fire and/or serious injury.

- Keep all safety rules and instructions for future reference.
- The term “battery” used in this manual refers to both standard batteries (batteries attached to the bicycle frame) and rack-type batteries (battery mounted in the rack) unless the type is expressly stated.
- Remove the battery from the e-bike before carrying out any work (e.g. inspection, repair, assembly, maintenance, chain work, etc.) on the e-bike, transport it or store it by car or aircraft. There is a risk of injury if the e-bike system is accidentally activated.
- Do not open the battery. There is a risk of short circuit.
- Opening the battery will void any warranty claims. Protect the battery against heat (eg also from continuous irradiation from the sun), fire and immersion in water. Do not store or use the battery near hot or flammable objects. There is a risk of explosion.
- Avoid touching the unused battery with paper clips, coins, keys, nails, screws and other small metal objects that can cause bridging of the contacts.
- Short circuit between the battery contacts can cause burns or fire. Any warranty claims will lapse in the event of damage caused by a short circuit. If used incorrectly, liquid may leak from the battery.
- Avoid contact with it. In case of accidental contact, rinse with water. In addition, if the liquid gets in the eyes, seek medical attention. Leaked battery fluid can cause skin irritation and burns.
- Vapors may occur if the battery is damaged or misused. Provide fresh air and consult a doctor in case of complaints. The vapors may irritate the respiratory system.
- Only charge the battery with original chargers. Fire hazards cannot be ruled out when using non-original chargers.
- Only use the battery in combination with your Brinckers bicycle. This is the only way to protect the battery against dangerous overload.
- Only use original batteries approved by the manufacturer for your e-bike. Using other batteries can lead to injury and fire hazard. When using other batteries, Brinckers accepts no liability and no warranty.
- Read the operating instructions for your e-bike and observe these regulations and instructions.
- Keep the battery out of the reach of children.

2. Maintenance & cleaning

To achieve the best performance, it is recommended to get your bike checked by your Brinckers dealer regularly (at least once a year). Inbetween the yearly checkups, it is recommended to perform small checkups yourself. Below you will find advice given to keep your bike in good shape:

Monthly

- **The fork headset** (below the handlebar), make sure it's tightened.
- **Tires:** is the reflective strip on the tires still clean and clearly visible?
- **Tires:** are the tires in good condition and on the recommended pressure?
- **Pedals & cranks:** Are the pedals and cranks securely fastened to the bottom bracket?
- **Brakes:** are the brakes fully working? Are the cables undamaged and still attached properly?
- **Spokes:** are they still fastened properly? And are the wheels still steady and not swinging?
- **Lighting:** is it still working accordingly?
- **Wheels:** is the lever of the quick release hub and shaft nuts of the wheels still properly attached?
- **Saddle and stem:** are they still properly attached in the frame? The safety marking should not be visible.

Below you will find some tips to consider when cleaning:

- Spray the bike with a garden hose and dry it with a piece of dry cloth.
- Use liquid soap in lukewarm or warm water.
- Avoid using a high-pressure washer, the water spray is too powerful and can remove essential oils!
- After cleaning, treat the lacquer with liquid wax.
- Lubricate the chrome lightly with polishing oil.

Yearly

Take your bike to a service partner for an extensive check every year.

3. Warranty

1. Warranty/maintenance

Defects in the product that are demonstrably traceable to a material and/or production fault and which occur within the following warranty periods shall be recovered free of charge by the seller in accordance with the following conditions. The following warranty terms apply:

- Six years on the frame;
- Two years on the front fork (with suspension);
- Two years on the drive system;
- Two years on the battery pack;
- Two years on the steering control unit;
- Two years on all the remaining parts, except for parts that are subject to wear and tear.

The aforementioned time limits shall commence on the day of delivery of the product.

2. The warranty claim does not apply to shortcomings caused by:

- Necessary periodic checkups/maintenance;
- Repairs or replacements of parts due to normal wear and tear;
- Battery wear: a battery is one product subject to wear and whose capacity decreases in the over time. Therefore apply to batteries the following conditions to qualify for warranty:
 - With new delivery, warranty applies if the battery has a capacity of less than 95%.
 - Warranty applies after 1 year of use the battery has a capacity of less than 80%.
 - Warranty applies after 2 years of use the battery has a capacity of less than 65%.
 - If a 3 year warranty is provided warranty applies if the battery has a capacity of less than 55%
- Please understand to read the battery via the display or a service tool is not the correct capacity. The shown capacity will be lower than reality because a portion of capacity is used for functioning of the system, such as lighting, controller and display. The capacity can only be correctly determined by a professional battery capacity tester.
- In addition, the battery should be treated according to the manual to be eligible for warranty, for example: reduced battery capacity due to deep discharge (as the battery was left empty for a long time) is excluded from the warranty.
- External damage such as scratches and dents;
- Defects caused by climatic influences, such as disintegration of lacquer, corrosion and/or rust formation;

- Defects caused by lack of maintenance in a timely, accurate and/or regular manner, in accordance with this manual (a demonstration of such maintenance should be possible);
 - Defects caused by improper use (e.g. heavy load);
 - Modifications or repairs carried out by persons not authorized to do so;
 - A product used for business purposes;
 - Exceeding construction speed. The speed to which the bicycle continues to support may deviate by up to 10% from the legally applicable speed limit from 25 km/h.
 - Exceeding total weight (bike + rider + luggage) of 140kg. For E-bikes a total weight of 120kg is applied. Front and/or Rear carriers have their own prescribed maximum load, the value is indicated on the part itself. Under normal circumstances the following applies: the maximum load of the rear carrier: 25kg. Maximum load for the front carrier: 10kg.
- 3.** For a valid claim on the warranty, you must report the defects to the seller as soon as possible, to a maximum of 14 days after discovery. You must provide the seller with the original proof of purchase. Furthermore, the seller must be allowed to inspect the bike.
 - 4.** For recovered parts the remaining warranty period applies (there will be no new warranty period).
 - 5.** If no valid appeal can be made on the warranty, the costs of repair will be borne by the buyer. Before proceeding to repair, the seller will inform the buyer of the costs and consent with the buyer prior to carrying out the warranty.

4. Contact

Do you have any questions in response to this manual?

Please contact the customer service.

✉ info@brinckers.nl

🌐 www.brinckers.nl

Disclaimer

At Brinckers we have compiled this manual with the utmost care.

It could, however, be possible that we have made a mistake. Nonetheless, liability due to pressure and typographical mistakes is excluded.

BAFANG



**Manual Bafang
Electronic System**

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About the User Manual

Dear users,

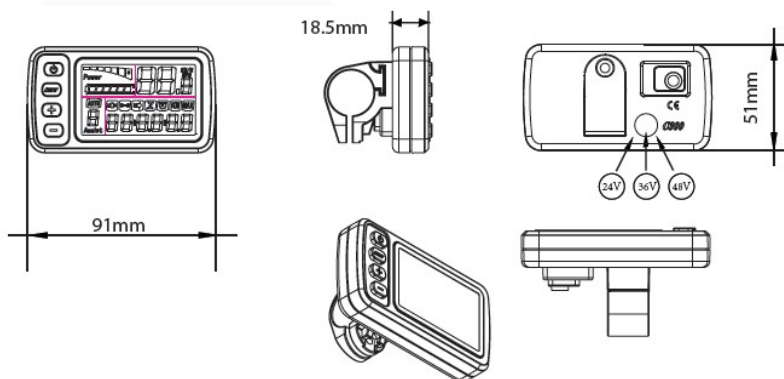
To ensure better performance of your e-bicycle, please read through the C300 product introduction carefully before using it. We will use the most concise words to inform you of all the details (including hardware installation, setting and normal use of the display) when using our display. Meanwhile, the introduction will also help you solve possible confusion and malfunction.

Outlook and Size

Material and Color

C300 products are made of black PC material. Under the temperature of -20°C to 60°C , the shell material can ensure normal usage and good mechanical performance of the products.

Real product and dimension figure (unit: mm)

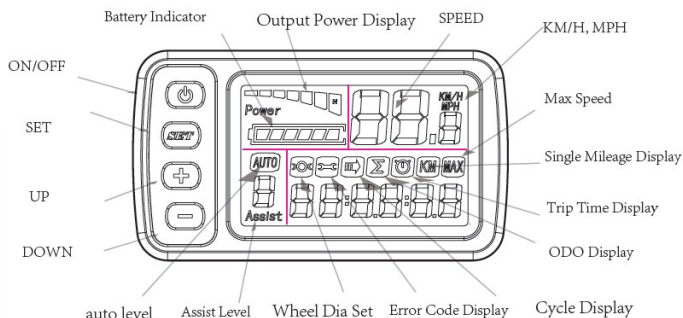


Function Summary & Button Definition

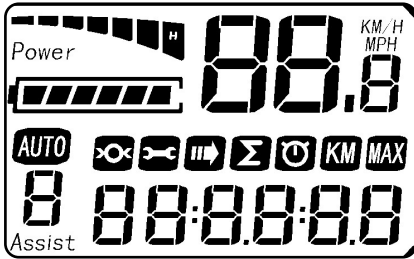
Function Summary

C300 provides a wide range of functions and indicators to fit the users' needs. The indicated contents are as follow:

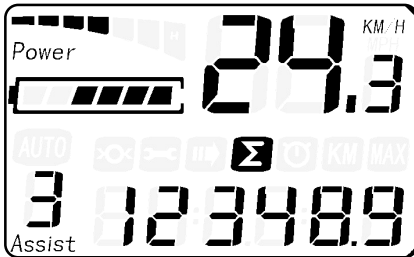
- ODO Display
- Riding Distance Display
- Riding Time Display
- Max Speed Display
- 6KM/H Display
- Backlight Open
- Assist Level
- Battery Indicator
- Error Code Display
- Wheel Diameter Setting
- KMH, MPH Switching
- Max Speed Limit Setting



Full Viewing Area

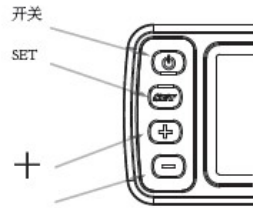


Normal Viewing Area



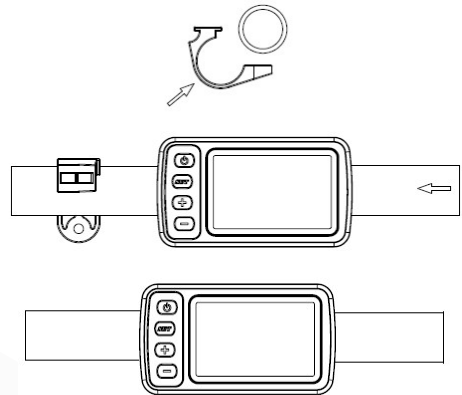
Button Definition

C300 has four buttons. They are **ON/OFF**, **SET**, **UP** and **DOWN**.



Installation Instruction

Fix display in the handlebar, adjust to the appropriate perspective; install the button in the easy manipulation of the position. With the e-bicycle power is off the corresponding connector of display plug in the controller connector. The attention for installing button is from right to left on the handlebar; avoid overstretching snap triggered damage in the installation.



Normal Operation

ON/OFF

Press **ON/OFF** and start the display, The display will provide power supply for the controller.

With display on, more than 3 seconds press

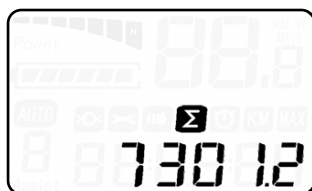
ON/OFF to turn

off power supply of the e-bicycle. With the display off, the display and controller no longer consume battery power. The leakage current is no more than 2 μ A.

■ If more than 5 minutes without use of the e-bicycle, the display will automatically shut down.

Display Interface

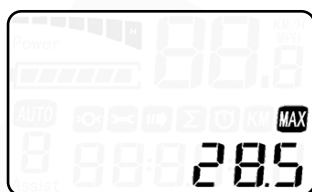
Press SET to switch the displaying information. The order is: ODO > Riding Distance > Riding Time > Max Speed.



ODO Display



Riding Distance Display



Max Speed Display



Riding Time Display

Push Cruise Control

Hold **UP** for 2 seconds and enter into the mode of power assist walk. The e-bicycle will go on at a uniform speed of 6km/h. It shows "6KM" on the screen.



Turn on/off Backlight

With the display on, press **ON/OFF** and turn on the backlight. Meanwhile, the controller will turn on the headlight. When the surrounding light is not enough or it is in the evening, you can turn on the backlight. And press **ON/OFF** again, turn off the backlight.



PAS Level Selection

Press **UP** or **DOWN**, switch the e-bicycle Assist Level to change output power of the motor. The power ranges from 0-6 levels. The default value is level 1.

Battery Indicator

When the battery capacity is high, the six battery segments are all light. When the battery is in low voltage, the outside edge of the battery frame will flash at 1 Hz. It indicates that the battery is severely low in voltage condition and needs to be recharged immediately.

Low Voltage Flash



Error Code Display

If there is something wrong with the electronic control system, the display will show the error code automatically. See Table 1 for detailed error code information.



■ Display return to normal only after problem being fixed and bike will not run before fixing the problem.

User Setting

Preparation before Starting

Make sure the connector is linked properly to the motor controller on the bike and the power is on.

General Setting

- Distance and Riding Time Clearing
 - Hold **UP** and **DOWN** for 12 seconds to clear Total Distance, Riding Distance, Riding time and Max Speed.
 - Hold **DOWN** for 3 seconds to clear Riding Distance and Riding time and Max Speed.
- Wheel Size Setting
 - Hold **SET** for 10 seconds and enter into wheel diameter setting. Selectable values include: 16,20,24,26,700C,28.
 - Press **UP** or **DOWN** to select the suitable value, to ensure the accuracy of display about speed and mileage. Default diameter value is 700C.



Press **UP** or **DOWN** to choose the wheel diameter setting, press **SET** to exit the setting.

3. Speed-limit Setting

- Change Max Speed could set the limit riding speed. When speed over this value, controller will cut off the power which supply to motor, to protect the safety of rider. Max Speed default value is 25km/h.
- Hold **UP/DOWN/SET** for 1 seconds and enter into the speed-limit setting interface:



- Press **UP** or **DOWN** to enter into speed-limit value selection. Reference speed limit values 20~40KM/H.

4. 4 KM/H, MPH Setting

- Press **DOWN/SET/UP** for 5 seconds to switch KM/H and MPH selection. (Default is KM/H)



KM/H, MPH Setting

Press **SET** to exit the above setting interface.

FAQ

Q: Why the display is not able to start up?

A: Checking the connector that between display and controller.

Q: How to deal with the error code?

A: Fix it to the maintenance place immediately

Quality assurance and Warranty scope

Warranty:

1. Any quality problems in normal case and in guarantee period, our company will responsible for the warranty.
2. The warranty time is 18 months from date of purchasing.

Other items:

The following items are not belong to warranty scope:

1. It can not be demolished.
2. The damage caused by wrong installation or operation.
3. Shell is broken when display is out of the factory.
4. 4Shell is broken when display is out of the factory.
5. Force majored (such as fire, earthquake, etc.) or natural disasters like lightning, etc caused by fault or damage.
6. Beyond Warranty period.

Error code definition

Code	Definition
0	OK
1	Current Abnormality
2	Throttle Abnormality
3	Motor Abnormality
4	Motor Hall Signal Abnormality
5	Brake Abnormality
6	Low voltage
7	Motor stop
8	Controller Communication Abnormality
9	Panel Communication Abnormality

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