



USER MANUAL V-OCO 346

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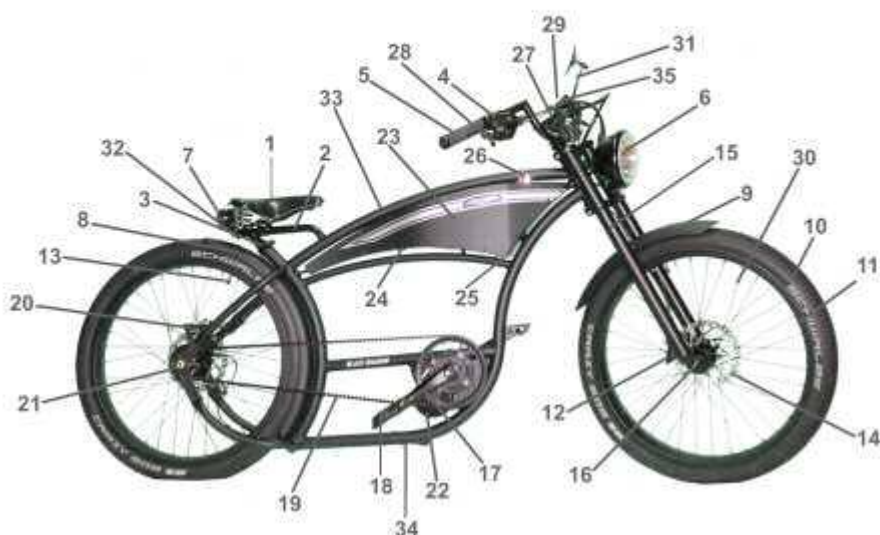


V-OCO USER MANUAL

We thank you for purchasing your V-OCO, and congratulate you for your choice.
Ride V-OCO is to make a gesture for the environment by suppressing any emission of carbon and other pollutants.
For your safety and that of other users, we invite you to respect the rules of the road and to wear a suitable helmet.
For optimal, safe and enjoyable use of your V-OCO, read this manual carefully before first use.
Good ride!



Please read and understand this manual before using any
your electric bike. In case of incomprehension or questioning,
do not hesitate to consult your dealer or V-OCO customer service.



Components

- 1 Saddle
- 2 Seatpost
- 3 Collier seatpost
- 4 Handle Rapidfier 8v
- 5 Handlebar with handle
- 6 Front Light 12v
- 7 Rear Light 12v
- 8 Rear fender
- 9 Front fender
- 10 Tire 26 "x 2.35
- 11 Rim 26 "65mm
- 12 disc brake caliper
- 13 Valve
- 14 Brake Disc 180mm
- 15 Rigid T fork
- 16 Front wheel hub
- 17 Crank
- 18 Pedal
- 19 Chain or Belt
- 20 Disc brake caliper
- 21 Hubs at speeds
- 22 Engine
- 23 Tank Battery
- 24 Fuse
- 25 XLR plug charger
- 26 Key switch
- 27 LCD screen
- 28 Brake handle
- 29 Inch Speed Control Knob
- 30 Radius
- 31 Rearview mirror
- 32 Catadiotre
- 33 Frame
- 34 Crutch
- 35 Doorbell / Horn



DIMENSIONS

- Length 2100 mm
- Height 950 mm
- Width Handlebar 690 mm
- Ground clearance 114mm



V-OCO Identification number

- 1 VIN Vehicle Identification Number (serial number)
- 2 Engine identification number
- 3 Manufacturer Label



MECHANICAL PART

- Frame: Cr-Mo steel 4130
- Stem: 346 aluminum
- Fork: Steel
- Saddle: Comfort
- Braking system: Av / Ar Shimano ZEE dual quad hydraulic piston 180mm
- Transmission: Shimano Alfine 8 speed
- Tires: 26 "X 2.35 Crazy Bob Schwalbe
- Rims: Double wall 64mm
- Fender: Aluminum / Steel
- Lighting: LED powered by battery
- Max load (bike and luggage rack): 145 kg
- Bike dimensions: 210 cm (L) * 70cm (I) * 95cm (H)
- Weight: 37 Kg

ELECTRICAL PART

- Engine: BAFANG BBS02 750W 48V
- Battery: LG 48V 21Ah
- Autonomy: 40 to 60 km according to conditions of use
- Battery cycles: 800 (average)
- Charging time: 5-7 100% hours
- Maximum speed: 45 km / h
- Support: 5 modes of assistance
- Control screen: LCD backlit

1. Product Name

- ✧ TFT LCD display
- ✧ Model : DPC14

2. Electrical Parameters

- ✧ 3.2 inch IPS screen
- ✧ 24V/36V/48V battery supply
- ✧ Rated operating current : 40mA
- ✧ Max operating current : 100mA (36V battery, with USB equipment changed)
- ✧ USB changing port : 5V 500mA
- ✧ Off leakage current < 1uA
- ✧ Max output current to controller : 100mA
- ✧ Operating temperature : -20~70℃, Storage temperature : -30~80℃

3. Dimensions & Material

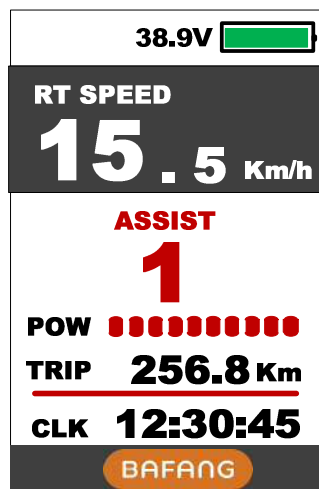
- ✧ Product shell is ABS, transparent window is made with high strength Acrylic.
- ✧ Dimensions : host/L92mm*W60mm*H14mm



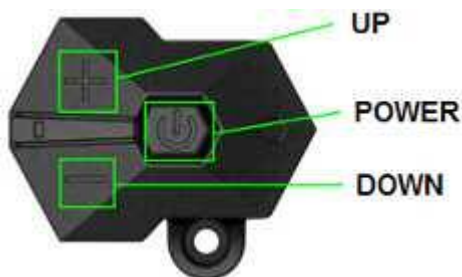
4. Features

- ✧ Suitable for low temperature, Max -20°C.
- ✧ High-contrast 3.2inch IPS colorful matrix screen.
- ✧ Ergonomic external button design, easy to operate.
- ✧ **Speed display** : AVG SPEED, MAX SPEED, SPEED(Real-time).
- ✧ **Kilometer / Mile** : Can be set according to customers' habits.
- ✧ **Smart battery indicator** : Provide a reliable battery indicator.
- ✧ **9-level Assist** : 3-level/5-level/9-level optional.
- ✧ **Mileage indicator** : Odometer/Trip distance/ Clock/ Riding time.
- ✧ **Power/Current indicator** : real time power indicator, digital or analog or **Current**.
- ✧ **Error code indicator**.
- ✧ **Software upgraded** : Software can be upgraded through UART.
- ✧ **USB charging port** : 5V/500mA

5. TFT screen instructions



6. Functional Description



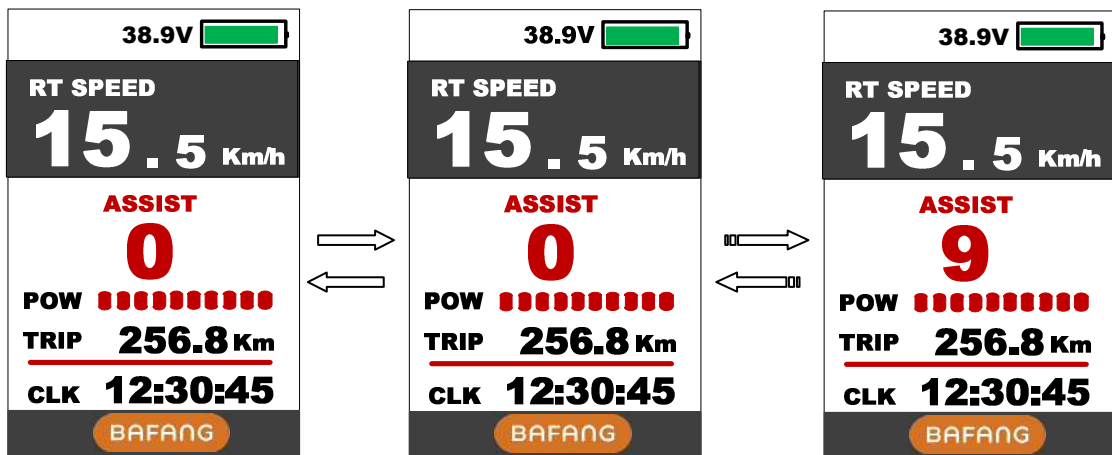
7.1 Power On/Off

Press and hold **Power** button for 1 second can turn on/off the display. The Display can automatically shut down when there is no operate & ride for X minutes (X could be 0~9) .

*If the display has been set password power on, you need to input the right password before start.

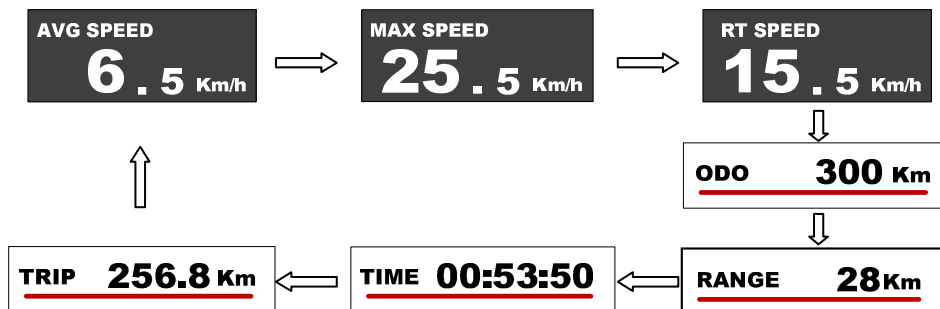
7.2 Assist level operating

Short press **UP/DOWN** button can change the assist level. Top assist level is 9, 0 for neutral. Level quantities can be adjusted according to the customer requirements.



7.3 Speed & Mileage mode switch

Short press **POWER** button can change the speed and mileage mode, AVG SPEED->MAX SPEED->RT SPEED->ODO->**RANGE**->TIME->TRIP.

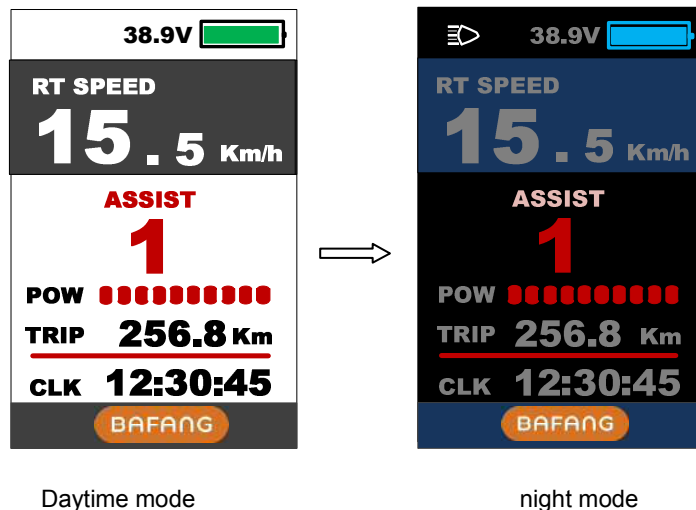


**If there is no operation for 5 seconds, display will return Speed (Real-Time) display automatically.

7.4 Headlight/backlight On/Off

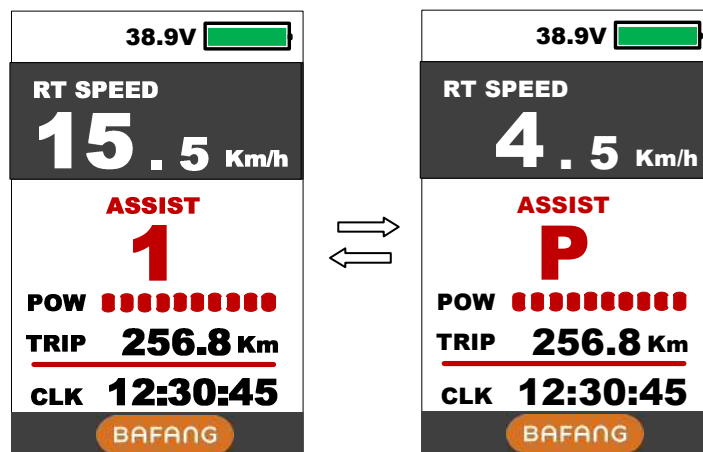
Press and hold **UP** button for 1 second can turn on/off the headlight, and the scree will switch to the corresponding mode.

*The motor does not work when the battery voltage is low, Display still can keep the headlight on for a while when E-bike is in riding.



7.5 Walking mode (6km)

Press and hold **DOWN** button for 2 second can get into walking mode, out of the mode when release the button.



* This feature needs to be supported by controller.

7.6 Data cleanup

Press and hold **UP** & **DOWN** buttons together for 1 second can reset several temporary data, temporary data include **AVG Speed / MAX Speed / Trip / Time**.

* These temporary data can't be erased by power off.

7. Parameter setting

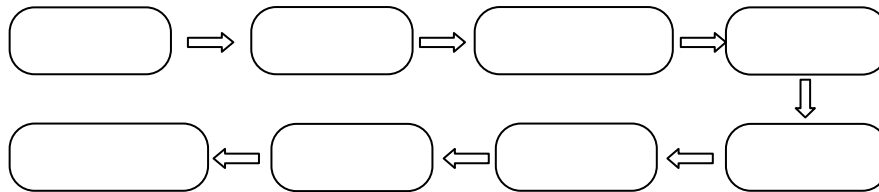
Double press **POWER** button (press interval less than 0.3 second) can get into setting menus, press **UP/DOWN** buttons to change the parameter setting, press **POWER** button can switch to next item. Double press **POWER** button will exit from menu.

* Display will automatically quit menu when there is no operation for 30 seconds.

* For safety reasons, display can't get into MENU when riding.

* Display will quit MENU when start riding.

The order of parameters are as follow.



8.1 System : Press Up / Down button to switch between Metric / Imperial.

MENU	
Display Setting	
→ System	Metric
Brightness	
Auto off	5min
Scenes	Digital
Battery Ind	Voltage
Pow Ind	Digital
Clock	>
Start password	>
Basic Setting	
Wheel	27 inch
...	
EXIT	

↔

MENU	
Display Setting	
→ System	Imperial
Brightness	
Auto off	5min
Scenes	Digital
Battery Ind	Voltage
Pow Ind	Digital
Clock	>
Start password	>
Basic Setting	
Wheel	27 inch
...	
EXIT	

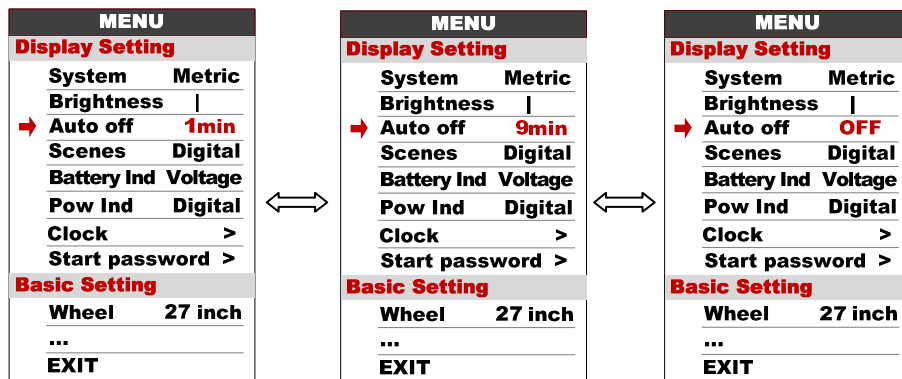
8.2 Brightness : Press Up / Down button to change the brightness of the backlight, | is darkness, ||||| is brightness, default value is |.

MENU	
Display Setting	
System	Metric
→ Brightness	
Auto off	5min
Scenes	Digital
Battery Ind	Voltage
Pow Ind	Digital
Clock	>
Start password	>
Basic Setting	
Wheel	27 inch
...	
EXIT	

↔

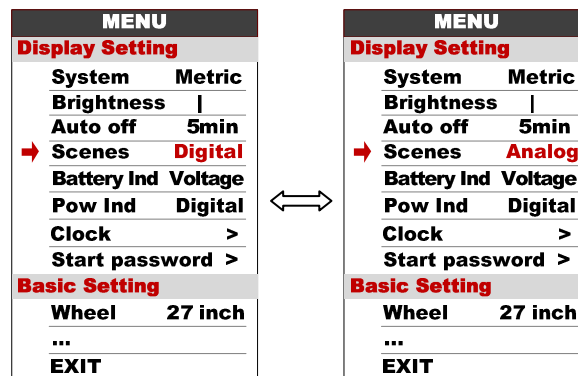
MENU	
Display Setting	
System	Metric
→ Brightness	
Auto off	5min
Scenes	Digital
Battery Ind	Voltage
Pow Ind	Digital
Clock	>
Start password	>
Basic Setting	
Wheel	27 inch
...	
EXIT	

8.3 Auto off : Press UP/DOWN button to change the auto power off time, from 1 to 9 or OFF, the number represent time (minutes) to shutdown, default value is 5 minutes.



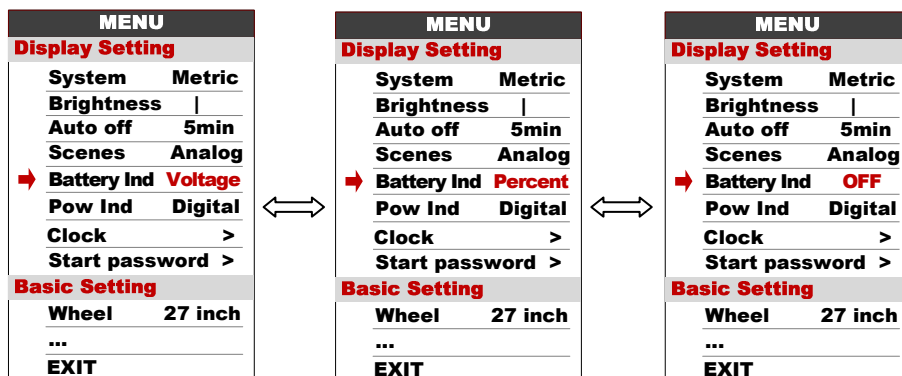
8.4 Scenes : Press UP/DOWN button to change the scenes, Digital / Analog.

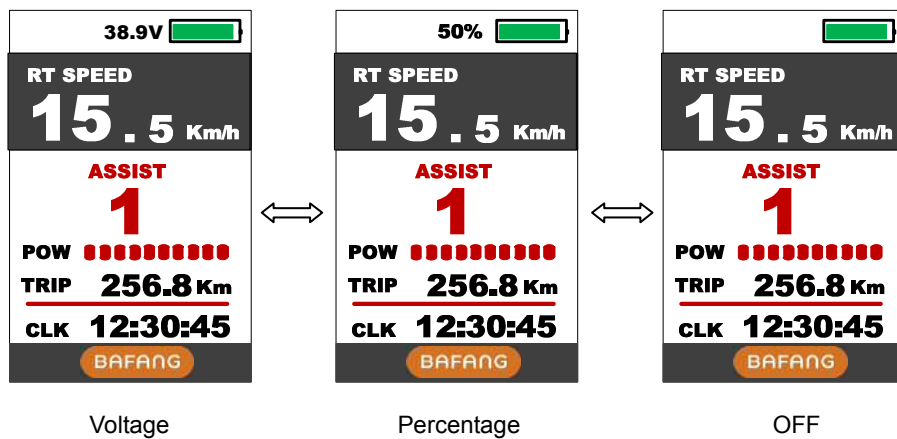
*Display only support Digital scenes for now, Analog scenes will be supported for future.



8.5 Battery Ind : Press UP/DOWN button to change the battery indicator, Voltage / Percentage / OFF.

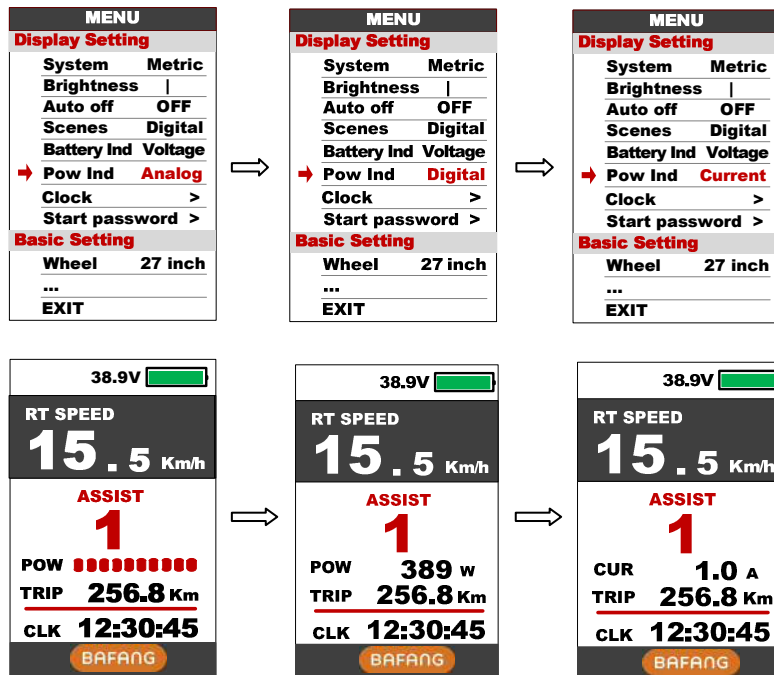
*Accurate percentage needs communication with battery.



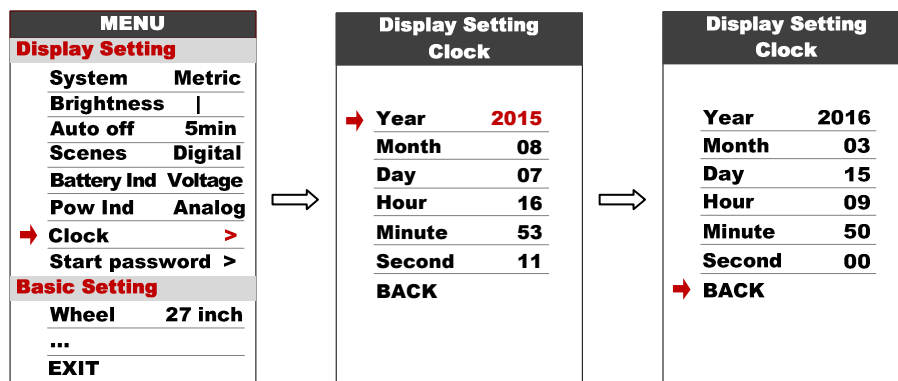


8.6 Pow Ind : Press UP/DOWN button to change the Power indicator, Analog / Digital/[Current](#).

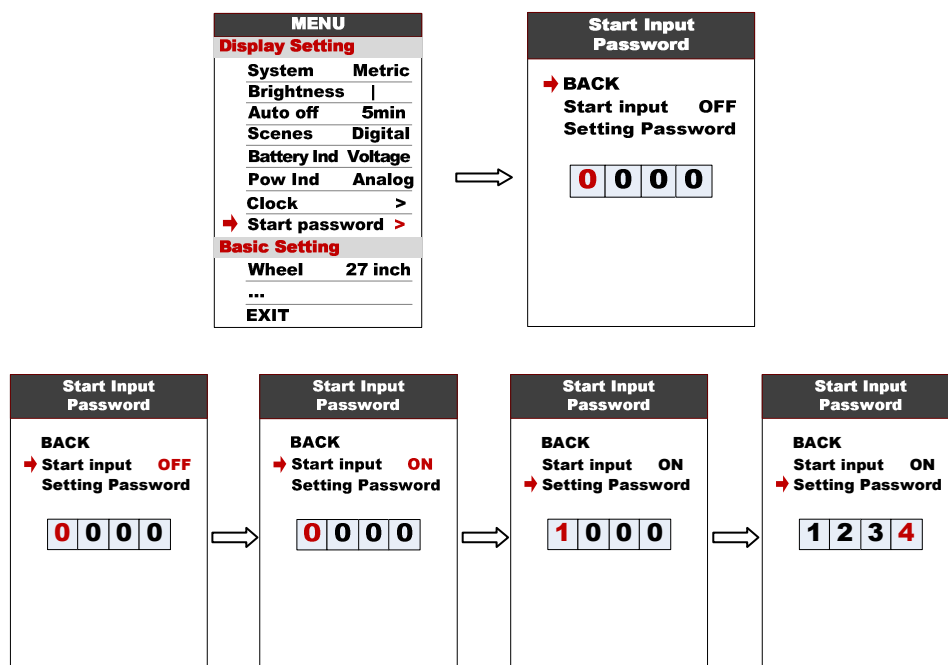
* This data represent power output of the battery (not motor).



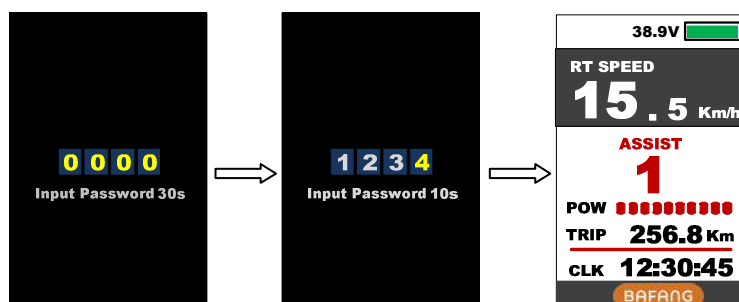
8.7 Clock : Clock setting, press POWER button get into the clock setting menu, press UP/DOWN button to set Year/Month/Day/Hour/Min/Sec.



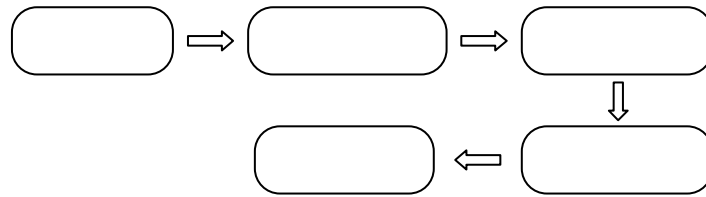
8.8 Start password : Press POWER button get into the password setting menu. If you had set Start input **ON**, you must input right password before power on, password is accorded to your setting.



You need to input the right password before start with 30 seconds, display will power off automatically if the password was wrong.



Basic Setting



*Press DOWN button to move the red arrow to **Wheel**, press POWER button can show all items of the Basic Setting.

8.9 Wheel : Press UP/DOWN can change the wheel setting, optional wheel diameter is 16/18/20/22/24/26/27/27.5/28/29/30/31 inch, 51cm~255cm represent wheel circumference (this needs controller support).

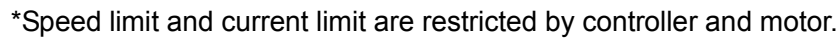
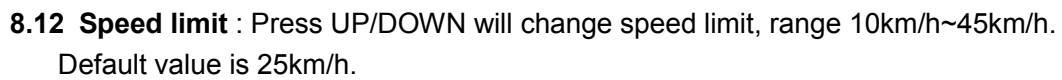
MENU	MENU	MENU	MENU
Display Setting	Display Setting	Display Setting	Display Setting
System Metric	System Metric	System Metric	System Metric
Brightness	Brightness	Brightness	Brightness
Auto off 5min	Auto off 5min	Auto off 5min	Auto off 5min
Scenes Digital	Scenes Digital	Scenes Digital	Scenes Digital
Battery Ind Voltage	Battery Ind Voltage	Battery Ind Voltage	Battery Ind Voltage
Pow Ind Analog	Pow Ind Analog	Pow Ind Analog	Pow Ind Analog
Clock >	Clock >	Clock >	Clock >
Start password >	Start password >	Start password >	Start password >
Basic Setting	Basic Setting	Basic Setting	Basic Setting
→ Wheel 16 inch	→ Wheel 31 inch	→ Wheel 51 cm	→ Wheel 255 cm
...
EXIT	EXIT	EXIT	EXIT

8.10 Battery : Press UP/DOWN will change battery voltage setting, optional value is 24V/36V/48V/UBE, UBE means user define value.

MENU	MENU	MENU	MENU
Display Setting	Display Setting	Display Setting	Display Setting
System Metric	System Metric	System Metric	System Metric
Brightness	Brightness	Brightness	Brightness
Auto off 5min	Auto off 5min	Auto off 5min	Auto off 5min
Scenes Digital	Scenes Digital	Scenes Digital	Scenes Digital
...
Basic Setting	Basic Setting	Basic Setting	Basic Setting
Wheel 26inch	Wheel 26inch	Wheel 26inch	Wheel 26inch
→ Battery 24V	→ Battery 36V	→ Battery 48V	→ Battery UBE
Advance setting >	Advance setting >	Advance setting >	Advance setting >
Factory settings >	Factory settings >	Factory settings >	Factory settings >
Informations >	Informations >	Informations >	Informations >
EXIT	EXIT	EXIT	EXIT

8.11 Advance setting : Press POWER button can get into the advance setting menu, default password is '1919'.

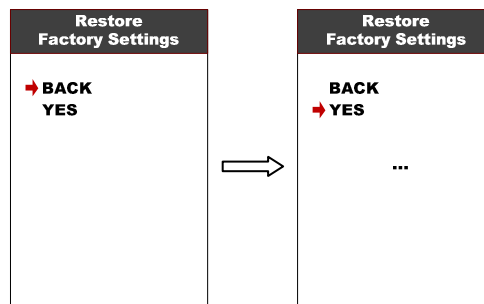
MENU	Advance Setting Password	Advance Setting Password	Advance Setting Password
Display Setting	→ BACK	BACK	BACK
System Metric	Input Password	→ Input Password	→ Input Password
Brightness			
Auto off 5min			
Scenes Digital			
...			
Basic Setting			
Wheel 26inch	0 0 0 0	0 0 0 0	1 9 1 9
Battery 36V			
→ Advance setting >			
Factory settings >			
Informations >			
EXIT			



The diagram illustrates the sequence of four screens for setting the speed limit to 25km/h. Each screen has a title bar 'Advance Setting' and a 'BACK EXIT' button at the bottom. The screens are connected by arrows indicating the flow from left to right.

- Screen 1:**
 - Speed limit 25km/h
 - Assist levels 3
 - Error code
- Screen 2:**
 - Speed limit 25km/h
 - Assist levels 5
 - Error code
- Screen 3:**
 - Speed limit 25km/h
 - Assist levels 9
 - Error code
- Screen 4:**
 - Speed limit 25km/h
 - Assist levels UBE
 - Error code

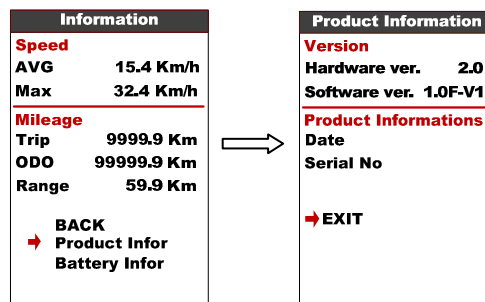
10



8.16 Information : Show information of the E-bike.

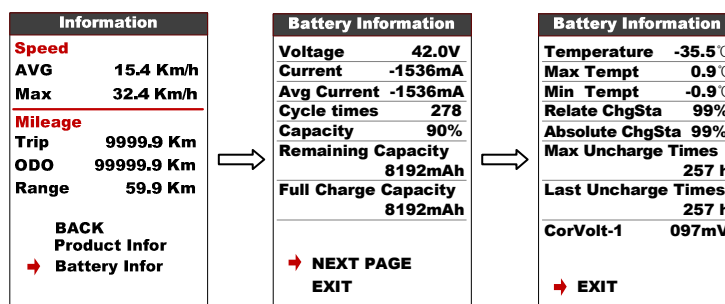
Information	
Speed	
AVG	15.4 Km/h
Max	32.4 Km/h
Mileage	
Trip	9999.9 Km
ODO	99999.9 Km
Range	59.9 Km
→ BACK Product Infor Battery Infor	

8.17 Product info : Get into this item can show hardware version software version...




8.18 Battery info : Get into this item can show all information of battery, including Voltage, Current, Avg Current, Cycle times, Capacity, Remaining Capacity , Full Charge Capacity , Temperature, Max Tempt, Min Tempt , Relate ChgSta , Absolute ChgSta , Max Uncharge Times , Last Uncharge Times , CorVolt-1.

*These information needs to be supported by battery communication.

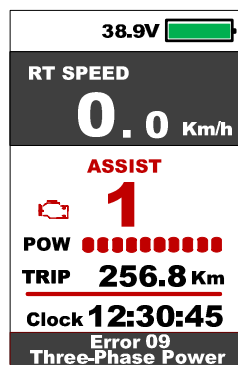


8. Error Code define

850C can show warning message,  icon shows on the screen, and show error code at the bottom of the screen, error code from 04~30, definition see the table below.

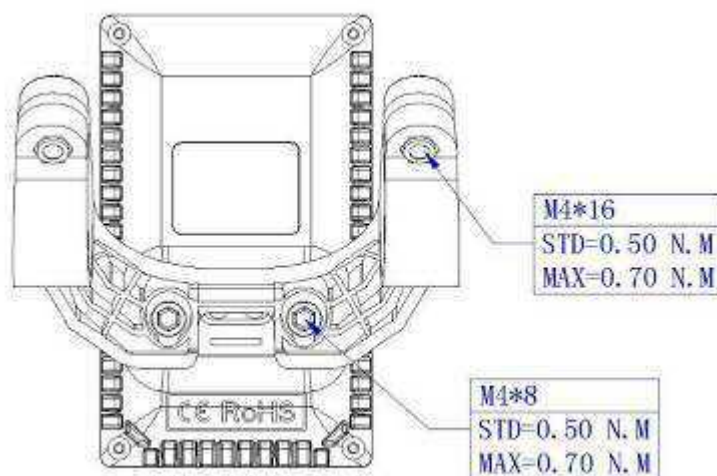
NO.	Error Code	Error description	Handle
3	0x04	转把没有归位 (停在高位处) Turn to no homing	
4	0x05	转把故障 Turn error	Check turn to connect.
6	0x07	过电压保护 Overvoltage protection	
7	0x08	电机霍尔信号线故障 Motor hall signal wire error	
8	0x09	电机相线故障 three-phase power error	Check three-phase power line connection
9	0x10	控制器温度高已达到保护点 High controller temperature	
10	0x11	控制器温度传感器故障 Controller temperature sensor error	
11	0x12	Current sensor error	
12	0x13	电池内温度故障 Battery temperature error	Check the battery
13	0x14	电机内温度传感器故障 Battery temperature sensor error	
13	0x21	速度传感器故障 speed sensor error	
14	0x22	BMS 通讯故障 BMS error	
15	0x23	大灯故障 LAMP error	
16	0x24	大灯传感器故障 LAMP sensor error	
17	0x25	力矩传感器力矩信号故障 Torque sensor torque signal	

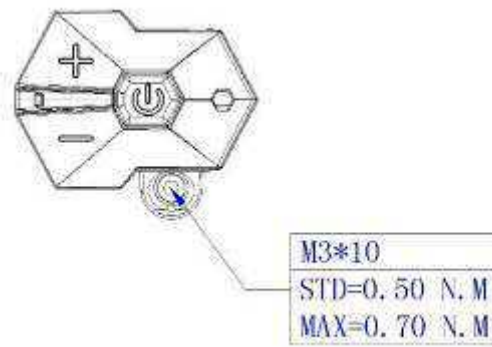
		error	
18	0x26	力矩传感器速度故障 Torque sensor speed error	
19	0x30	通讯故障 Communication error	



9. Assembly instructions

Please pay attention to the screw's torque value, damaged caused by excessive torque is not within the scope of the warranty.





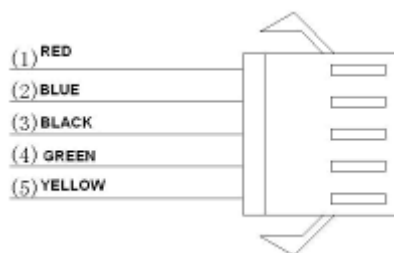
There are 2 directions for the clamp installation, forward or backward.



Clamps suit for 3 size of handlebar, 31.8mm, 25.4mm, 22.2mm, there are transfer rings for 25.4mm and 22.2mm, transfer ring must be assembled with the special directions, pay attention to the green arrow below.



10.Connector descriptions



- 1、 Red wire : Anode(24v/36v/48V)
- 2、 Blue wire : Power cord to the controller
- 3、 Black wire : GND
- 4、 Green wire : RxD (controller -> display)
- 5、 Yellow wire : TxD (display -> controller)

11.Assist level instructions

Assist level can be customized, the highest level is 9, common used assist level see the table below:

3 level	5 level	9 level	
0		0	No power assist
	1	1	
		2	
1	2	3	
		4	
	3	5	
2		6	
	4	7	
		8	
3	5	9	

12.Certification

CE / IP65 (water proof) / ROHS.



The battery of your V-OCO



Battery cell: LG 3500mAh
Dimension: 240*136*70mm
Charger 4A

The battery of V-OCO is secured and hidden in the tank, thus protected against bad weather.

The battery can not be removed from the bike.

In case of battery failure, do not disassemble the tank to access the battery. Please contact your dealer.

Charging the battery

Never leave a battery charged unattended.

The total charge level of the battery is indicated by the 3 LEDs green on the top of the battery

The battery level is indicated on the display on the handlebar

Charging your battery should be at room temperature, on a non-flammable and dry surface, far from any source heat, moisture or flammable material and without covering it.

Here are the steps to follow for charging your battery:

Step 1
Turn off the V-OCO.

2nd step
Connect the charger to the battery in the direction of connect and then the charger to the power outlet.

Step 3
The LEDs on the charger turned on as follows:
- The red LED lights up: the battery is charging.
- The red LED turns green: charging is complete; you can unplug the charger from the power outlet and the battery.



LED

Prise de courant.



Prise XLR



Note :
Never store a battery fully discharged under penalty of irreparably deteriorating it. During winter or during a long period of inactivity, it is mandatory to charge the battery to half every 2 months. Do not forget to turn off the switch. Store your v-oco between 15 ° and 25 °.

Autonomy and life of the battery

autonomy

The range of your V-OCO is between 40 and 60 kilometers because it depends on many factors (degree of assistance, topology, driver weight, frequent stops / starts, mounted, tire pressure ...), outside temperature etc.

Battery

Your battery is like a battery. It has an energy potential which will decrease over time. It is important to remember that your lithium-ion battery does not have a memory effect: it is not no need to fully discharge it before recharging. We even advise you to avoid landfills as much as possible complete, this may damage the cells and reduce prematurely the autonomy of your V-OCO. When autonomy available will no longer meet your needs, you will be able to acquire a new battery from your dealer.

The interview

If you do not use your bike for a period longer than 2 months, store it away from moisture for protect the electronics and make sure that the battery is neither completely discharged.

The battery of your V-OCO is an electrical part made of chemical components, for your safety, it is imperative to respect the following rules:





Components

Horn

The V-OCO is equipped with a 12v horn, green push button on the handlebars.



Lights

The V-OCO has a 12V battery-operated front-rear light.
red ON / OFF button on the handlebar.



Key switch

The V-OCO is equipped with an ON / OFF key switch on the tank to cut the current of the bike.
Do not forget to turn the switch off so as not to drain the battery.



Fuse

The V-OCO is equipped with a 30A fuse





Components

Rack / Option

Consider the following instructions before using the luggage rack attached to your V-OCO:

- The maximum capacity of the rear rack is 25 kg
- Never use the bicycle rack as a child seat.
- Make sure the total weight of the rider and baggage does not exceed the weight limit that can support the bike.
- Do not make changes to your luggage rack, this may cancel approval and therefore its guarantee.
- The luggage rack is not designed to tow a trailer
- Check that all luggage is securely fastened to the luggage rack, do not exceed V-OCO not vertically or horizontally and that no strap hangs and is not likely to get caught in the wheels.
- Make sure the reflectors or lamps attached to your bike are not hidden by objects that are attached to the luggage rack.
- Note that the handling of the bike (braking distance) may vary when the luggage rack is in charge.
- Distribute luggage symmetrically on each side of the luggage rack balance the weight.



Tires and wheels

The V-OCO is equipped with 26 "x 64 mm double wall rims, with schwalbe Crazy Bob tires 26 "x 2.35.

Make sure each time the tire pressure is the same as suggested by the manufacturer (Schwalbe). The minimum and maximum pressure is indicated on the flank of each tire. A tire inflated to the correct pressure optimizes braking and thus reduces accident risk, minimizes the risk of punctures and premature wear and slightly increase the battery life.

Regularly check the wear of your tires and have them replaced if necessary.

Regularly check the condition of your rims and the tension of your spokes.

Check regularly the tightening torque of the nuts of your wheel axles (indicated in this manual) If in doubt or malfunction, consult your dealer or professional of the approved cycle.



Braking system

The braking system on the V-OCO model is of the hydraulic type

The left brake lever controls the front brake.

Check the wear of the pads at the front and back.

If, despite the adjustment of the brakes using the wheel located at the levers, braking remains insufficient, contact your dealer.

The brakes mounted on your (Right brake lever controls the rear brake) V-OCO have a sensor that automatically turns off the engine as soon as you turn them on, In case of malfunction of this sensor, stop using the bike immediately and contact your dealer. Important: braking distances increase on wet or slippery floors



Pedal motor

The V-OCO is equipped with a Bafang 750w / 500w ultra-torque pedal engine





Components

speeds

Your V-OCO has a Shimano alfine 8 speed Integrated Speed Hub, allowing you to use different developments when pedaling according to the profile of your The speed change takes place at the level of the right handle, on which have 2 handles that can be operated with the thumb and forefinger, allowing you to change fast and easy speed. Before changing gears, consider easing the pressure on the pedals. Anticipate as much as possible your stops by passing on a low speed development to facilitate the restart. The chain of your V-OCO must be cleaned and greased regularly to ensure the longevity of your system.

Shift sensor

The V-OCO is equipped with an electric assist shut-off system when you shift the gears, so that the engine torque is not exerted on the transmission. (for ultra torque coupler engine)

Warning: in the event of a derailment of the chain of your V-OCO, always turn off the power of your V-OCO, pressing 3 second on the button (on / off) of the Display. This prevents the sensor present in the pedal unlocks the engine while you're in the process of replace the chain correctly, which can damage your physical integrity.



Kickstand

Side kickstand installed on the left side of your V-OCO allows you to store it standing without having to press it on a fixed point. Regularly check the tightness of the screws to prevent your V-OCO from falling when it is stopped. Remember to remove the kickstand when riding to avoid the risk of falling or any degradation of V-OCO. Never ride the V-OCO when stationary by leaning on the kickstand, which can give way under the weight and make you fall.



Saddle

Your seat is adjustable only horizontal:

Unscrew the screws of the rails (carriage) on both sides of the saddle (key 13/14), adjust the s comfort you, tighten the screws of the rails on each side of the saddle to lock it on the The saddle should be adjusted so that your leg is almost stretched when the corresponding pedal is in the down position.



Saddle stem

The Seatpost and fix (no height adjustment)
Clamp clamp Seatpost need an Allen wrench 5.



Handlebar / Stem

If you are facing the bike, the handlebars must be horizontal. To adjust the handlebars, loosen the fixing screw and the 4 side screws on the stem and adjust the handlebar. Then retighten the fixing screw (tightening torque 10-20Nm) and then tighten the 4 screws lateral (torque approx. 25Nm). Brake levers must be mounted in the axis of arms and hands, so that you do not have to wring your wrist when you apply the brake.

A-Head stem

The A-Head stem is fixed to the fork stem by 4 side screws. We can not adjust the height of this gallows. First set the headset using the screw at the center of the room. Adjust the stem to the wheel. Then tighten the side screws (tightening torque approx. 25Nm).





Components

Speed sensor

The V-OCO is equipped with speed sensor attaches to the bike frame at level of the rear wheel.

The magnet is fixed on a spoke in front of the magnetic sensor within 5mm of distance for a good operation.

The magnet is unscrewed in two parts and comes to "sandwich" the radius of the wheel back of the bike.



Thumb accelerator

The V-OCO is equipped with Accelerator thumb left,

For the V-OCO 45 km / h version, the thumb accelerator allows easy starting up to 30km / h without pedaling.

For the V-OCO 25 km / h version, the thumb accelerator allows easy starting up to 20km / h without pedaling.



XLR Plug Charging Battery

The V-OCO is equipped with an XLR jack below the right tank, for the charging your battery.





Composants Gates Carbon Drive

If your V-OCO have a belt

We advise you to carefully read the Carbon Drive User Manual.

<https://www.v-oco.ch/pdf/french-owners-manual-gates-carbon-drive.pdf>





Liste de Vérification V-OCO

V-OCO Checklist

Before each race

1. The battery is charged.
2. The electrical appliances are working properly.
3. All nuts and bolts are tight as specified.
4. The front and rear wheels are attached to the bike frame and the nuts are tight.
5. The tires are inflated to the correct pressure as indicated on the sidewall of the tire.
6. The brakes are set and operating correctly, including the brake switches.
7. The seat is locked and the seat post is adjusted.
8. Handlebars are tightly tightened.
9. Chain and crank works smoothly and lubricated.
10. Lighting

Wheels

Check that the wheel nuts are tight:

Front Wheel Axle Nut Tightening Torque 35- 45 Nm

Alfine 8 rear wheel Tightening torque 35-45 Nm

Rims

Rotate the wheels and check for vibration or lateral movement.

The wheels should have no more than 1.0 mm of play on each side. The wheels must be regulated by certified mechanics.

Spokes

Regularly check the stainless steel shelves. Replace bent or broken steel spokes.

Tires

Check the tires for cuts or punctures and wear. The pressure of tires must be adjusted to the specifications indicated on the side walls.

Chain

The chain should run smoothly when clean and lubricated. Lubricate the chain regularly, at least every 3 months or after a wet walk.

Brakes

Before driving the V-OCO, check the following points. If one of following points has a problem, contact the place of purchase or a dealer of bicycles.

Is there an oil leak in the brake system?

Do the front and rear brakes work properly?

Does each pad have a thickness of 0.5mm or more?

Is the disc deformed or cracked?

Are there abnormal noises?

The bolts are tight according to specifications.

Brake Caliper, Disc Brake, Shimano 6 - 8 Nm



Servicing

Like any means of transport, your V-OCO must be serviced and regularly reviewed by Concessionaire Of V-OCO software.

It will be necessary to check, among others, the following elements: the tightness of the whole of the fasteners, tire pressure, wheel curtain, chain tension, braking and the proper electrical operation.

The first visit is to be made after 3 months or 200 km. Then, it will be necessary to make a visit a year.

Cleaning

Never use a pressure washer or garden hose to clean your V-OCO. The force of the water jet could damage the electrical components.

We recommend a soft cloth or brush to clean the bike.

Always use very little water and keep water away from electrical contacts.

Check the connections for moisture after cleaning and allow them to dry if necessary before using or loading the bike.

Maintenance After the first 200 kilometers

After the first 200 kilometers, then at least once a year:

Operation to carry out Check

Clamping The engine block

Tires and wheels

Tightening torque

Handlebar

cranks

Saddle stem

Setting of the following elements:

Headset

brakes

pedals

Saddle

All fastening screws

Gear switch

* Shock

Maintenance Every 300 to 500 km

Operation to realize

Control:

Chain

Pinion (s)

Toothed crown

Rim

Wear of fillings (replace the worn nitrates)

Clean:

Chain

pinion (s)

Lubricate:

Chain with chain oil

Control:

the correct tightening of all screws and bolts

Maintenance Every 1000 km:

Control:

Clamping The engine block

brakes

the correct tightening of all screws and bolts

Every 3000 km:

To have checked, cleaned

, possibly replace by your dealer

Clamping The engine block

pedals

brakes

Headset



Precautions for use

Check the brakes, front and rear lights, and tire pressure.

Tightening torques

This bike has been assembled according to the assembly standards in force: if you proceed yourself adjustments, tightening the fasteners according to the following requirements (pairs of tightening) is your responsibility. If in doubt, have a professional from approved cycle.

Check the tightening of the various fasteners very regularly, even if you do not use your V-OCO.

Tightening torque

Axis of bottom bracket 40-45 Nm
Bottom Bracket, Aluminum 40 Nm
Pedals 30 Nm
The engine block 80 Nm
Front wheel axle nut 35-45 Nm
Rear axle nut 35-45 Nm
Aheadset stem locking screw 9 Nm
Seatpost collar screw 20 Nm

Maintenance tips

- Avoid using your electric bike on wet roads, in puddles, streams, in the rain, etc., and never immerse in the water as the electrical system could be damaged. Regularly check the wiring and connectors to make sure they are not damaged.
- Cycling on the beach, in the coastal area or in the snow can expose your bike to salt that is very corrosive. Rinse frequently and wipe off all rust-prone parts; grease the chain and sprockets with a suitable product and rustproof. Make sure the rims are dry so that the braking performance is not affected.
- Do not use pressurized water jet to wash the bike, as this may damage the components; prefer a damp sponge.
- Do not use solvents or corrosive detergents to clean the bike.



Warning



This manual contains information specific to V-OCO 346. It is important to read this manual carefully.
Improper use of V-OCO 346 may cause malfunctions and injuries.



For your safety, the engine of the V-OCO 346 is only starts when you have reached a minimum speed. However, you must leave the brake tight before putting the first foot on the pedal.
The strong acceleration is very surprising. On a busy road or fragile soil, a start uncontrolled can cause a fall or serious injury. Practice manipulating and drive the V-OCO in a quiet and safe place before driving on busy roads!



Never exert pressure on the cable charge the battery when you insert it into the XLR plug for charging. Please note that the XLR plug allows you to correctly position the charging cable before plugging it into the charging socket. A po-
Incorrect installation may damage the electronic part of the V-OCO 346.



Always make sure that the charger is compatible with the local power grid:
Voltage: 100V, maximum 240V, Frequency: minimum 50, maximum 60Hz
Never attempt to open, disassemble, or insert objects into the feeder.



Do not charge the battery above 40 ° C or in tightly closed rooms.
The charger should always be placed on a stable and secure surface, and keep it away from flammable substances.
In case of prolonged storage, recharge the battery at least every 2 months



In no case should you:
short circuit the battery, immerse the battery in water or wash it with water, open or handle the battery, recharge the battery with another charger, expose the battery to a heat source or flam



We recommend activating the daylight permanently. This will allow other road users to better perceive your presence, and will bring you security increased on busy roads.



Before any maintenance, remove the fuse from its housing. Do not disconnect
Never connect a connector while the fuse is in the slot. You will avoid thus all risk of electric shock and injury.



If the motor is under heavy stress for a long time, in a very long climb, he can warm up. To avoid burns, make sure your hands, feet and legs do not do not touch the engine.



You must adapt your driving when the road is wet or slippery. You have to drive more slowly and braking with caution and anticipation for the reason that braking distances are lengthening a lot. You have to adapt your speed to the terrain and your abilities. Never let go of the handlebars.



The V-OCO 346 is designed to carry one person. The transport of an extra person must be done in accordance with the Highway Code.
The transport of luggage can only be done with equipment intended for this purpose. Children must be placed in a child seat or in a child restraint.
child trailer designed for this purpose.
Total weight allowed 145 Kg: rider weight + bike weight + weight of luggage



Responsibility

The company OCOBIKE, distributing VAE under the brand V-OCO, emerges from liability for the hazards and risks associated with and associated with the practice of the user agrees to assume with full knowledge of the facts.

In this sense, the user assumes sole responsibility for personal injury, property and immaterial to itself or to a third party when using the EAV.

In addition, OCOBIKE's liability can not be investigated in any case

Misuse of the VAE by its user, including:

Failure to adhere to the warnings in this manual

Non-compliance with the conditions of use

Non-compliance with the traffic codes in force in the country of use

The poor maintenance or lack of maintenance of the pedelec used

Replacement of any part of the bike (electric including charger and battery, or mechanical) by a part not approved by the manufacturer or retailer / dealer.

Any cause of external origin

The user of the VAE is deemed to accept these conditions without reservation, to purchase, and during the entire period of use and possession of the VAE.

You are obliged to respect the codes and laws of circulation of the country in which You are.



Warranty

During the warranty period, and in its legal and commercial framework, the engine, the battery, the control box, etc. may be appraised and if necessary repaired / replaced by the manufacturer: do not dismantle the components yourself. In case of problem on one of the components, immediately stop using your V-OCO and contact the seller or the dealer to find a solution to your problem together.

Carefully keep your purchase invoice that will be asked for in case of a return of your products under the legal warranty.

Warranty and after-sales service is provided by OCOBIKE or a dealer approved by the V-OCO brand. Repair or change parts under warranty of your bike V-OCO electric assist can only be carried out by the dealer or the dealer where you bought your V-OCO. Before returning any product, contact directly your dealer to advise you on the process to follow.

Warranty period (applicable on the date of invoice)

- Setting: 5 years
- Battery: 2 years
- Engine, display, control box, charger: 2 years

The normal use of the following parts does not fall within the scope of the guarantee:

- Brakes (skates, cables, stirrups ...)
- Tires and tubes
- LED bulbs
- Chain, derailleur
- Any other current wear part

Situations in which the guarantee can not be applied:

- Use contrary to the safety rules and the precautions dictated by the manual supplied with the purchase
- Incorrect settings of the components by the user
- Failure / lack of maintenance
- Replacement of bicycle components with non-compliant components
- Opening / removing one or more electronic components
- Component with visible traces of shock
- Commercial use of the bike not approved by the distributor

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VOTRE REVENDEUR