

User Guide



ALPINO LX

ALPINO SX



geotbike
electric bikes

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Introduction

Dear Customer,

Congratulations on your purchase of this Geobike.

This guide is to introduce the electric bicycle to you. We therefore strongly recommend that you read this manual very carefully. This will allow you to enjoy your Geobike as long as possible.

This Manual provides basic tips about the Geobike with assistance, operation and maintenance.

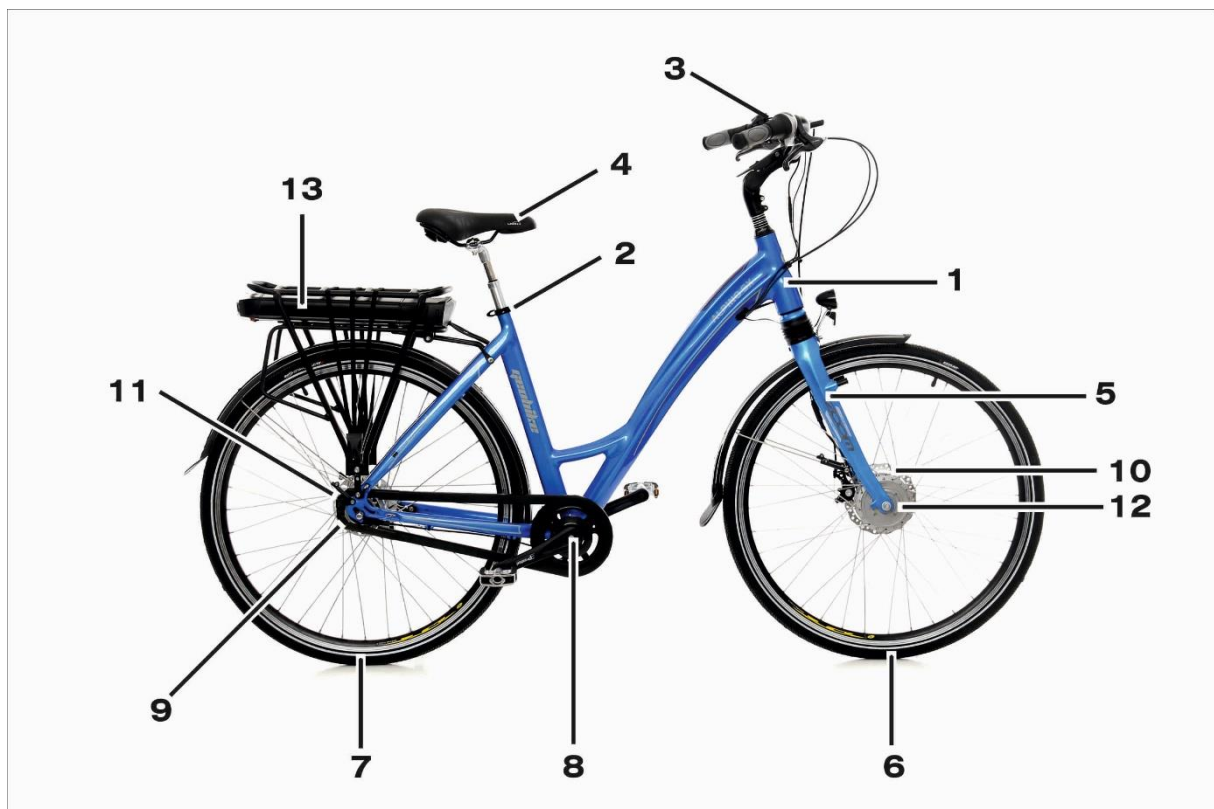
If after reading this manual you have any questions and/or comments, please contact the local bicycle shop from where you purchased your Geobike.

We hope that you enjoy many miles of cycling on your new Geobike.

Geobike

Description of bike components

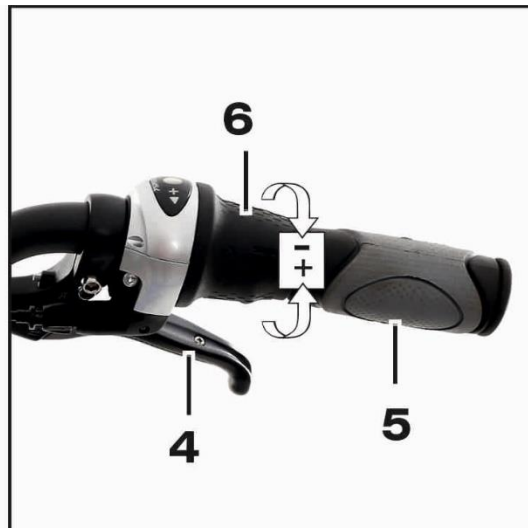
1. Alloy frame.
2. Seatpost lockout
3. Handlebar with APT 850C display.
4. Saddle.
5. Suspension fork.
6. Front wheel.
7. Rear wheel.
8. Crankset.
9. Shimano Nexus inner rear derailleur.
10. Front disc brake.
11. Rear roller brake.
12. Bafang 250 W motor integrated with front hub.
13. Lithium-ion battery.



** This is an illustrative photo. GEOBIKE can change the set and location of bicycle equipment details according to your own design.*

Functions and steering wheel operation

1. Left handle.
2. Front brake lever.
3. Controller.
4. Rear brake lever.
5. Right handle.
6. Twist shifter.



Model	ALPINO LX / ALPINO SX
Type	pedelec
General	
Unladen weight as follows if equipped	about 24 kg
Allowable total weight	max. 130 kg
Allowable load for carrier	max. 25 kg
Dimensions (L x W x H) mm	1760 x 660 x 1160 mm / 1840 x 660 x 1220 mm
Maximum speed	25 km/h as a pedelec
Bike structure	
Frame	alloy frame 19,5" / alloy frame 20"
Suspension	ZOOM suspension fork / SUNTOUR suspension fork
Seat height	900 - 1020 mm / 920 – 1060 mm
Tires (front & rear)	KENDA 26 x 38C / KENDA 700 x 38C
Rims (front & rear)	26" / 28"
Front brake	disc brake
Rear brake	roller brake
Stem	adjustable
Drive system	
Crankset	38T with magnetic sensor
Rear sprocket	18T
Chain	KMC 1/2 x 1/8 x 94L / KMC 1/2 x 1/8 x 94L
Pedal drive	alloy, with reflective
Shifting system	rear SHIMANO Nexus 7 speed, steering by the throttle on the handlebar
Electric system	
Lighting	Spanninga Blaze LED / Spanninga Lineo LED
Display	APT 850C Intelligent Display
Operation	5 modes with speed limit (max speed at about 25 km/h), walk assistance (6 km/h)
Motor	Bafang 250 W in front hub
Rated voltage	36 Volt
Rated power	250 W
Power transmission	directly from the front hub
Battery	Samsung Lithium-Ion, mounted on the trunk
Voltage	36 Volt
Peak current	15 A
Rated capacity	optional 10 Ah / 13 Ah
Weight	2,5 - 3 kg
Range	up to 80 km / up to 90 km
Recommended tire pressure	4.5 bar
Charging time	about 4-6 hours

10 TIPS for your GEOBIKE

To optimize your Geobike experience and to achieve the maximum range of an electric bike, we recommend that you follow these tips:

1. Make sure that the battery is fully charged before use for the first time. The battery will retain its best capacity once it has been completely charged and discharged several times. This is known as battery conditioning.
2. The Lithium battery has a long life. The battery does not have to be fully charged in order to run the bicycle. Using the battery partially charged will not affect the life of the battery.
3. The range of the Geobike can vary through many factors. The tires must be correctly inflated. When you do not have correctly inflated tires, it can significantly affect the range.
4. If the brakes are correctly adjusted since this can prevent unwanted resistance. Unwanted resistance will lower the range. The ability for the wheels to rotate freely is therefore critical to maximizing the range.
5. GEOBIKE Alpino LX / Alpino SX has 5 levels of power assistance. How these levels are selected has a great influence on the range. If you need to use the highest level of power assistance, the achievable range will be considerably lower than using a lower level of power assistance.
6. When you pull away from a standing start, select a low gear. This allows you to safely pull away and also saves energy in your battery.
7. Always ensure that the bicycle is powered off (the switch on the rear rack is off) BEFORE inserting or removing the battery.
8. Please use the proper battery charger. Please don't use the charger which does not match with the battery.
9. When you are charging the battery, please ensure that the Geobike is powered off.
10. Although the Geobike is water resistant, please do not use high pressure hoses on the bike as this will cause permanent damage to it. Excessive heavy rain may also give the same result.

Riding on your Geobike

Riding on your Geobike is done in the same way as riding any other bike. You can use the Shimano gear handle to decide which gear you wish to select whilst riding. To do this you just click to the selected gear and the hub will simultaneously select this gear. The Shimano Nexus 7-speed provides a high riding efficiency. Changing gear is a very smooth experience.

It is highly advised not to select a high gear when starting from a standing position. If the power assistance is selected this will adversely affect the range. The effect is similar to that of a car pulling away in 3rd gear. The engine must then work harder and use more fuel to get you started. This is exactly the same as with your Geobike. If you want to pull away in a high gear then more energy must be taken from your battery to get you started. The optimal method is to select gear 1 or 2 with the pedal assist mode in either mode low or mode medium. When you are up to speed, choose the pedal assist mode that you require.

TIP!

Make sure you are in a low gear when you are stationary, at a traffic light for example!

Lightning

The bike is equipped with front and back lights with LED bulbs. The front lamp is powered by bike's battery, back lamp has its own battery. Turning on the front lamp is possible only when the power of bicycle' drive is on. To turn on the front lamp press the button on the controller, to turn on the back lamp press the button placed on the lamp (1).



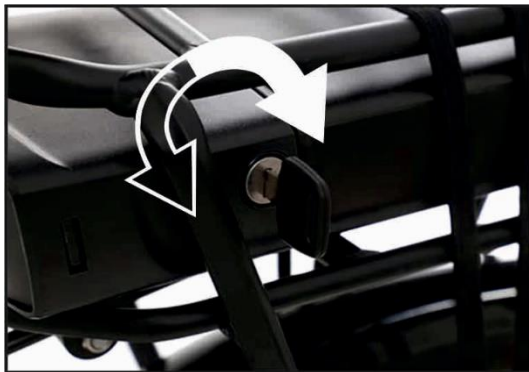
Turning on the power of bicycle' drive and removing the battery

To turn on the power assistance, insert the battery into the cassette under the trunk. Next turn on the switch located on the back of the battery to position (I) from (0 / I).

After that you can activate the assistance functions on the controller located on the steering wheel using the ON / OFF button. After ride turn on the switch to position (0) from (0 / I).

To remove the battery and release the protecting lock, turn the key in the battery lock to the left. To enable the insertion of the battery, also release the lock by turning the key.

The set includes 2 sets of keys. Do not lose the spare key because without the original key it is not possible to make copies if one of the original keys is lost.



WARNING!

According to EU regulations, the maximum speed of a bicycle with turned on electric support is 25 km/h. Therefore, so the bike has an additional blockade to fulfill this condition. The removal of the lock releases the producer from liability for exceeding the regulations as well as defects in the drive and power system.

DISPLAY AND FUNCTION

APT 850C Intelligent Display

DIMENSIONS & MATERIAL

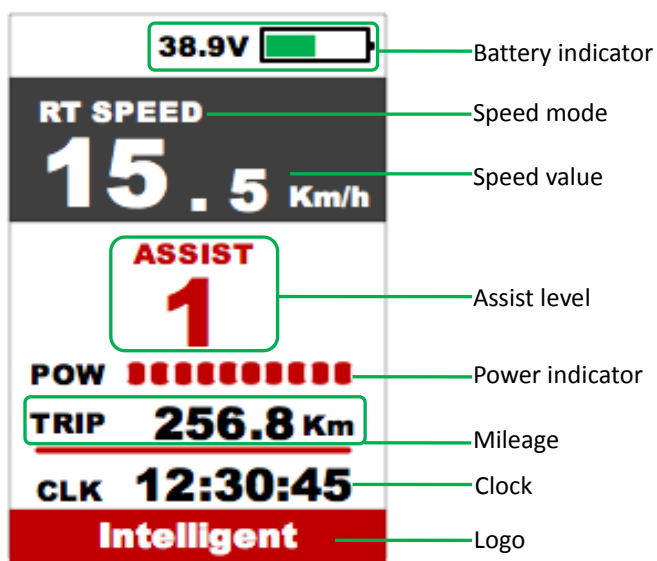


- Product shell is ABS, transparent window is made with high strength Acrylic.
- Dimensions : host/L92mm*W60mm*H14mm
- Operating temperature : -20~70°C, Storage temperature : -30~80°C

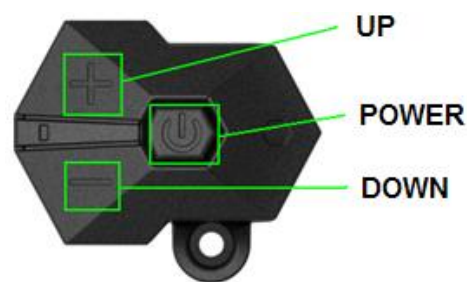
FUNCTIONS & BUTTONS

- Ergonomic external button design, easy to operate.
- Battery level indicator.
- Speed display: SPEED (Real-time), AVG SPEED, MAX SPEED
- Current assist level display.
- Power indicator.
- Mileage indicator: odometer / trip distance / clock / riding time.
- Walk assistance.
- Error code indicator.
- USB charging port.

Screen interface



Controller buttons



NORMAL OPERATION

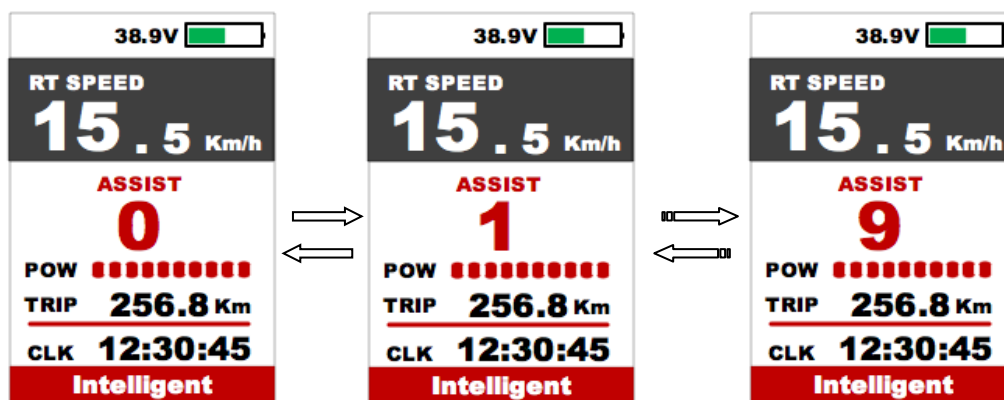
ON/OFF

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 the start.*

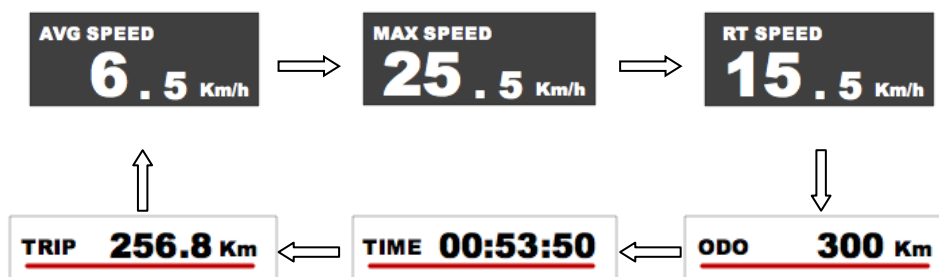
Assist level operating

Short press **UP/DOWN** button can change the assist level. Top assist level is 5, 0 for neutral. Level quantities can be adjusted according to the customer requirements.



Speed & Mileage mode switch

Short press **POWER** button can change the assist level, AVG Speed -> MAX Speed -> RT Speed -> Trip -> ODO -> Time.

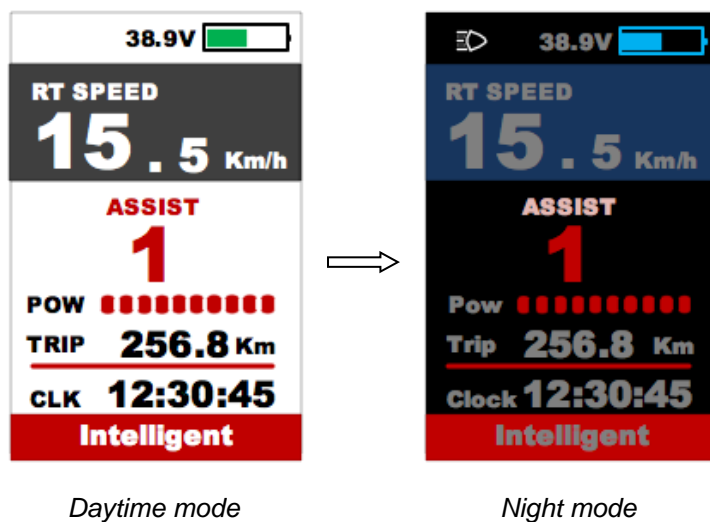


* If there is no operation for 5 seconds, display will return Speed (Real-Time) display automatically.

Headlight/Backlight on/off

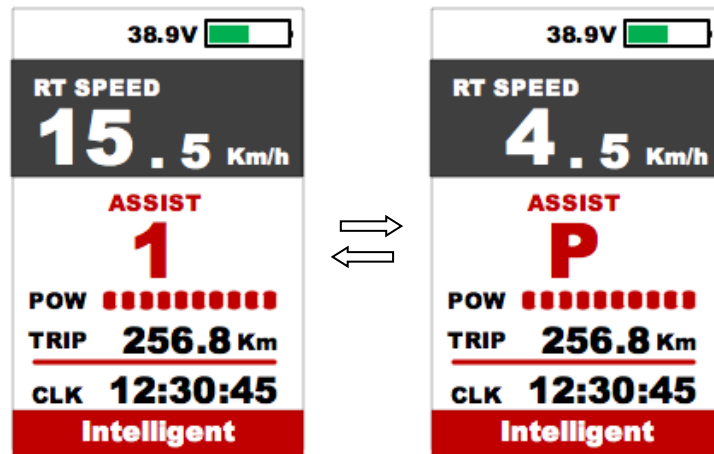
Press and hold **UP** button for 1 second can turn on/off the headlight, and the screen will switch to the corresponding mode.

* 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.



Walk assistance (6 km/h)

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



* This feature needs to be supported by controller.

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**.

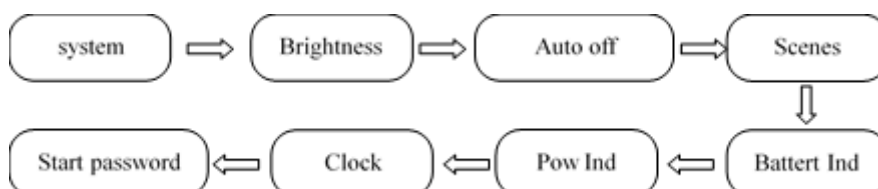
* These temporary data can't be erased by power off.

Parameter setting

Double press **POWER** button (press interval less than 0.3 second) can get into setting menu, 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:



- **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	

- **Brightness** : Press **UP/DOWN** button to change the brightness of the backlight, | is darkness, |||| is brightness.

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	

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

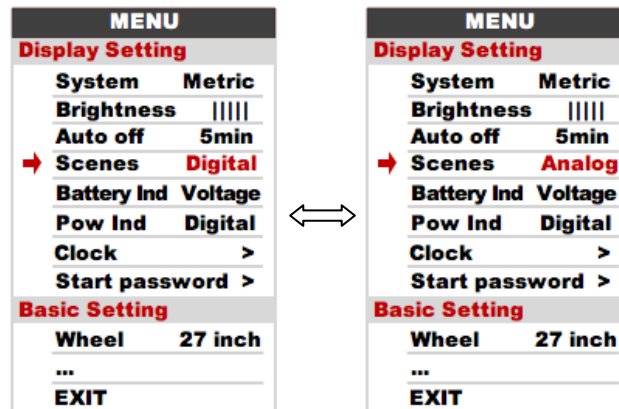
MENU	
Display Setting	
→ System	Metric
Brightness	
Auto off	1min
Scenes	Digital
Battery Ind	Voltage
Pow Ind	Digital
Clock	>
Start password	>
Basic Setting	
Wheel	27 inch
...	
EXIT	

↔

MENU	
Display Setting	
→ System	Metric
Brightness	
Auto off	9min
Scenes	Digital
Battery Ind	Voltage
Pow Ind	Digital
Clock	>
Start password	>
Basic Setting	
Wheel	27 inch
...	
EXIT	

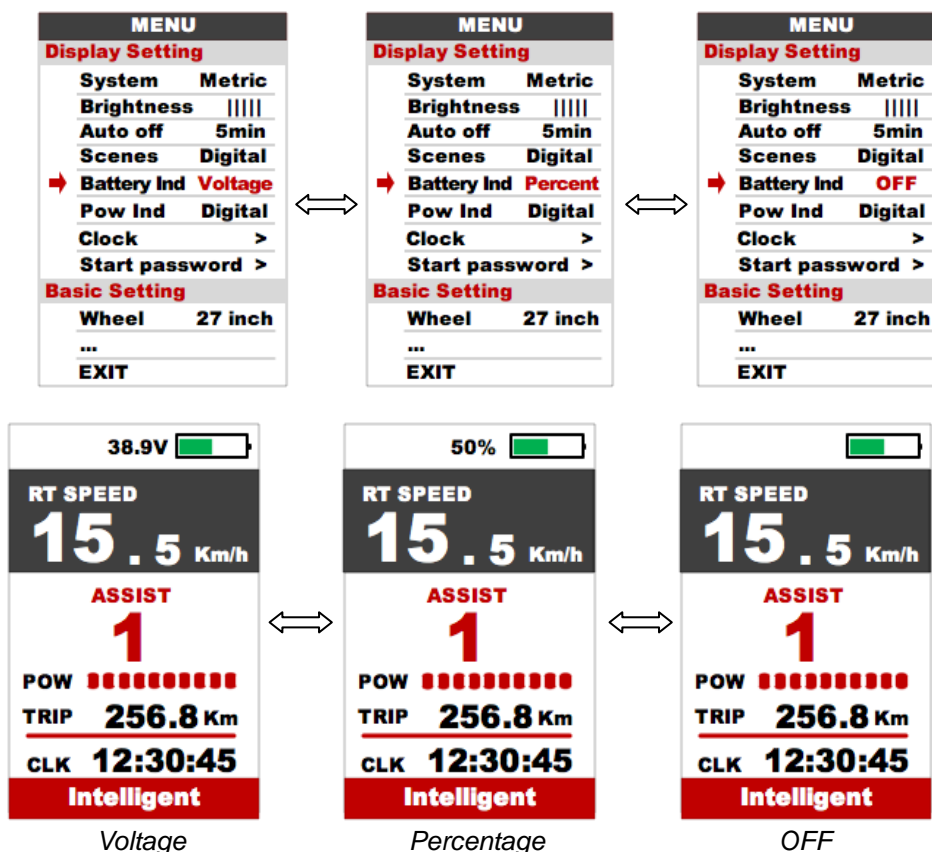
- **Scenes** : Press **UP/DOWN** button to change the scenes, Digital / Analog.

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



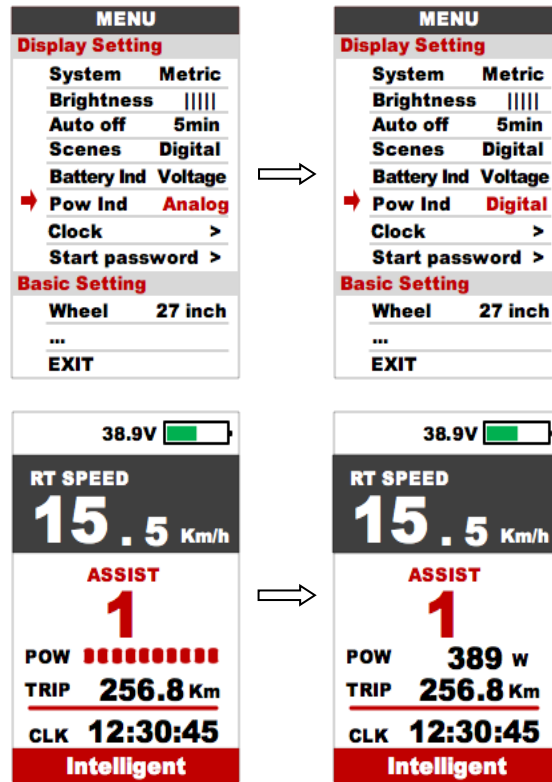
- **Battery Ind** : Press **UP/DOWN** button to change the battery indicator, Voltage / Percentage / OFF.

** Accurate percentage needs communication with battery.*

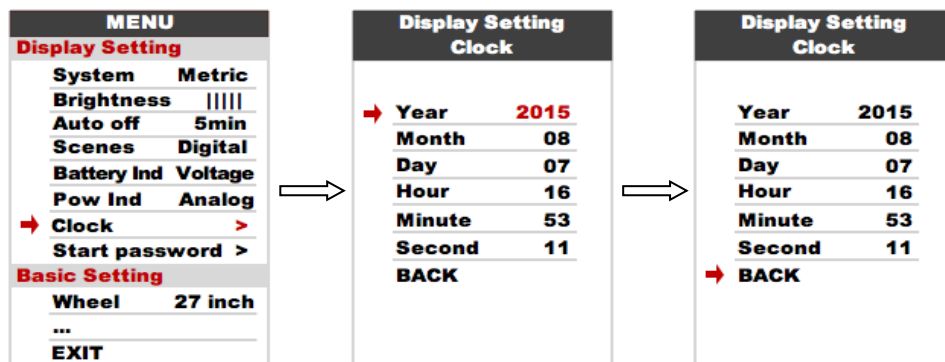


- **Power Ind** : Press **UP/DOWN** button to change the Power indicator, Analog / Digital.

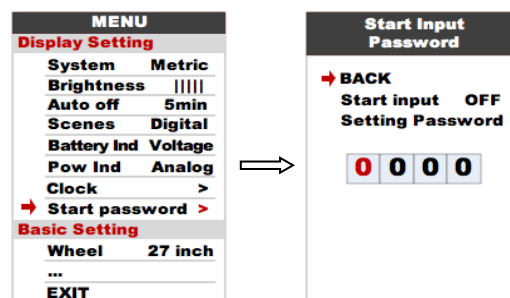
** This data represent power output of the battery (not motor).*

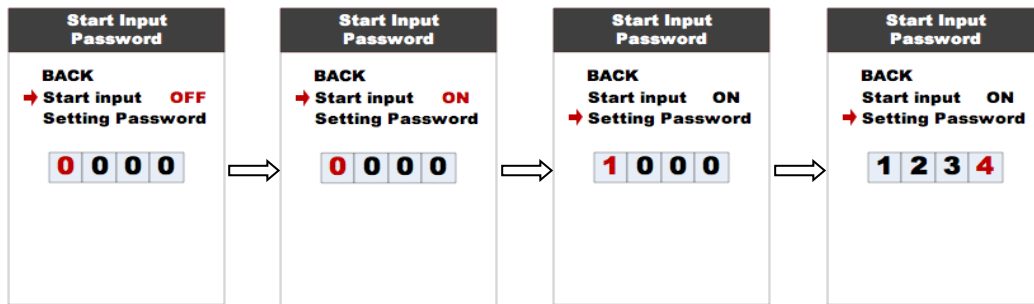


- **Clock** : Clock setting, press **POWER** button get into the clock setting menu, press **UP/DOWN** button to set Year/Month/Day/Hour/Min/Sec.

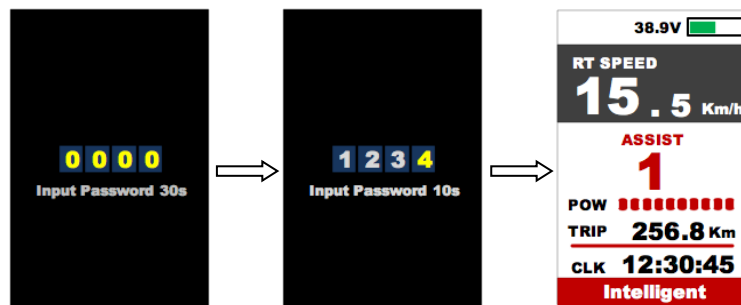


- **Start password**: Press **POWER** button get into the password setting menu. If you had set Start input **ON**, you must input right password before power on, password is accorded to your setting.





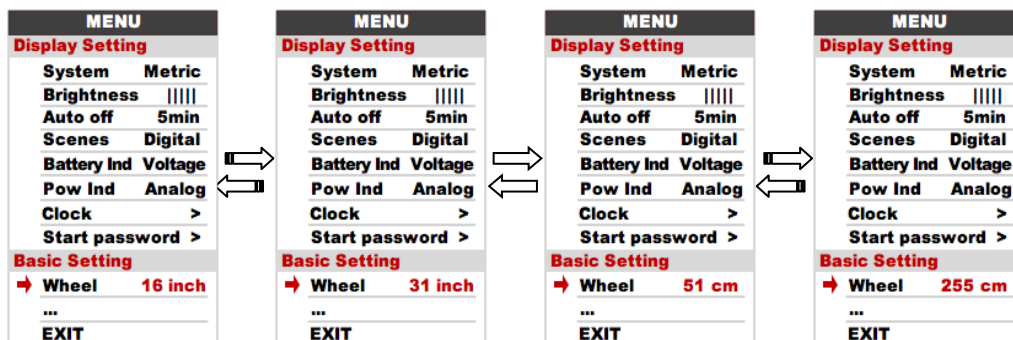
You need to input the right password before start with 30 seconds, display will power off automatically if the password was wrong.



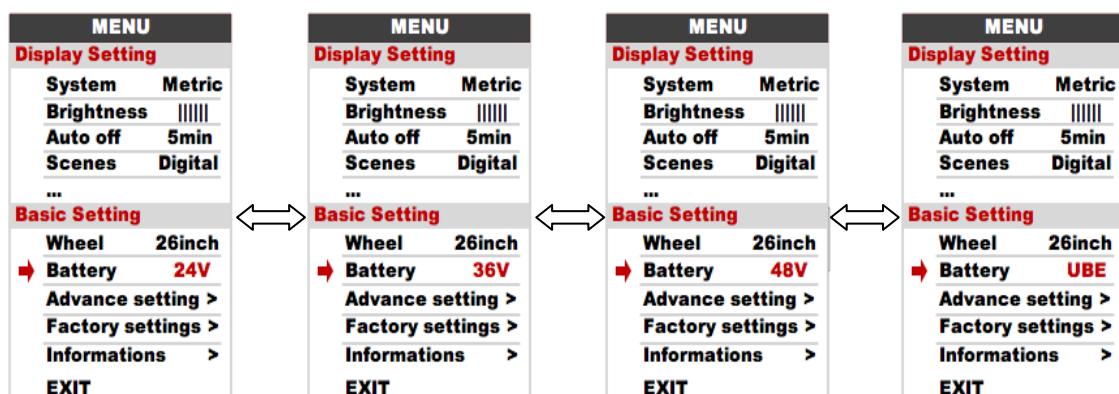
Basic setting

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


- **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).

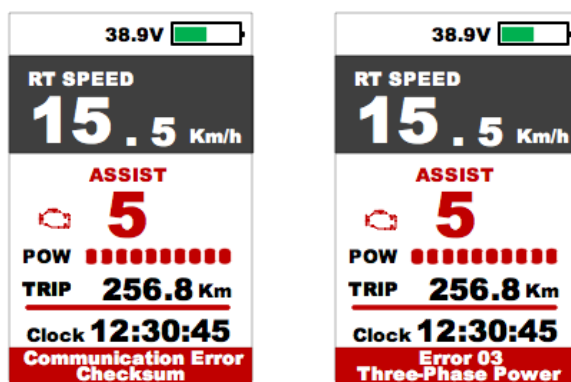


- **Battery:** Press **UP/DOWN** button will change battery voltage setting, optional value is 24V/36V/48V/UBE, UBE means user define value.



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 01~07, definition see the table below.



Error code indication

Error code	Error description	Handle
01	Communication error	Check the cable connection
02	Controller protection	Check three-phase power line
03	three-phase power error	Check three-phase power line connection
04	Battery low	Charge the battery
05	Brake error	Check the brake connection
06	Throttle error	Check turn to connect
07	Hall error	Check the hall connection
08-99	Reserved	Please contact the manufacturer for error definitions

When error code shows remove the error or call your service.

YOUR BATTERY AND THE CORRECT WAY TO USE IT.**Charging the battery**

The batteries can be charged whilst they sit in the carrier on the bike, or when removed from the bike using the charger. Make sure it is inserted back in once charging is complete.

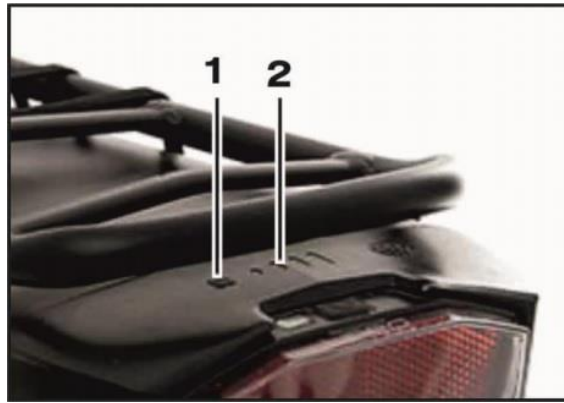
The average charging time of completely uncharged battery is about **4-6 hours**. Charging should be completed when the green light lights up.

Battery charger

charger LED indicator	
LED	MODE
Red	charging
Green	charging completed, full battery

ALWAYS MAKE SURE THE BIKE IS POWERED OFF BEFORE INSERTING/REMOVING A BATTERY.

TO START CHARGING, FIRST SHOULD CONNECT POWER CABLE WITH 220V ELECTRIC SOCKET, NEXT CONNECT JACK TYPE CABLE WITH THE BATTERY.



You can easily check the battery charge status by pressing the control button on the back of the battery (1). The charge indicator (2) has 4 lights: 3 green and 1 red on the left side of the indicator bar. When only the red lamp is on it is necessary to recharge the battery as soon as possible. Each green lamp indicates a 20% increase in the status charge.

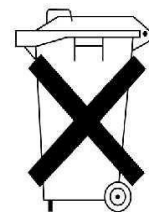
ATTENTION !

If the bicycle is unused, the battery should be stored in a charged state. Especially in the winter when we do not ride a bike remember to recharge the battery to its full no less than once every 3 months. Storing the battery in a discharged condition for a long time may cause its permanent damage !!!

Tips for taking good care of your battery:

- * Keep the battery stored in a cool dry place (5°C - 20°C)
- * Use only the charger supplied with the Geobike or a Geobike authorised charger.
- * Keep the charger and the battery out of reach of small children.
- * Do not cover the charger whilst in use.
- * Make sure no dirt or moisture is on the charger or the charger plug.
- * Do not handle the power plug or charger plug with wet hands.
- * Do not drop the charger or the battery.
- * Do not leave the battery pack or charge it in direct sunlight.

Once the battery had reached the end of its life please have it disposed by the professional technician or your dealer.



Destruction of the bike and the used battery should be performed in an environmentally sound manner. Please try to recycle wherever possible.



For more information, please contact GEOBIKE or the shop where you bought the bike.

WARRANTY INFORMATION

1. A bike that is correctly maintained and periodically inspected by your **GEOBIKE** dealer is the safest bike. In the case of an accident **Geobike** are only liable for accidents resulting from defects in material and/or workmanship. Accidents resulting from alterations, modifications and/or repairs performed by third parties are excluded from the liability. This also applies to accidents resulting from transports of persons and goods.
2. Under normal usage conditions and maintenances, your **Geobike** frame is covered by a 5 year warranty.
3. The **Geobike** electric components are covered by warranty subject to normal usage.
The warranty period: 2 years.
The warranty date commences on the date of purchasing.
4. During the warranty period, all components covered for which Geobike has established that there is a material and/or construction defect, Geobike has the right to repair/replace or compensate. Cost of disassembling and transportation of the bike are the responsibility of the owner unless the product is dead on arrival. Geobike will if certain items are eligible for warranty cover as far as possible replace by the same new parts or new parts of at least the same quality. Geobike cannot guarantee that certain components, frame types and/or parts will always be available.
5. Geobike reserves the right to decide whether an item is eligible for warranty cover.
6. The warranty applies only to the first owner of the bicycle.

NOTES :

This image shows a full page of blank, lined paper. The paper is white and features evenly spaced, light gray horizontal lines running across its entire width. There are no margins, text, or other markings on the page.



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