



# VITILAN EBIKE

Operation and maintenance manual

 [www.vitilanebike.com](http://www.vitilanebike.com)



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**PLEASE NOTE:**

This manual is not intended as a detailed user, service, repair or maintenance manual. Please seek assistance from a qualified technician for service, repairs or maintenance.

## IMPORTANCE

**When using the electric bicycle, basic safety precautions should always be followed, including the following:**

1. Read all instructions.
2. To protect against fire, electric shock and injury to persons, do not immerse cord, plugs, or e-bike in water or other liquid.
3. Close supervision is necessary when the e-bike is used by or near children.
4. Unplug from outlet when not in charging and before cleaning.
5. Do not operate the e-bike with a damaged cord or plug or after the e-bike malfunctions, or has been damaged in any manner. Take the e-bike to the nearest authorized service bike shop for examination, repair or adjustment.
6. The use of accessory attachments not recommended by the e-bike manufacturer may result in fire, electric shock or injury to persons.
7. Do waterproof when using on a rainy or snowy day.
8. Do not let cord hang over the edge of table or counter, or touch hot surfaces.
9. Do not place on or near a hot gas or electric burner, or a heated oven.
10. Always attach the plug to the battery first, then plug the cord into the wall outlet.
11. Do not use the bike for other than intended use.
12. Save these instructions.

**\*Note that this is a general manual. VITILAN reserves the right to make changes to products and designs. The e-bike you own may not be the same style as the pictures shown in this manual.**

# MODEL: i7 Pro



## Specifications

- **MODEL:** i7 Pro
- **Frame Construction:** Aluminum alloy folding full suspension frame
- **Wheelbase:** 1150mm
- **Gear Range:** SHIMANO 8-speed type
- **Tire Size:** 20" (565mm)
- **Climb Grade:** 30 degree
- **Max load:** 150kg (330 lb)
- **Max Speed:** 28mph
- **Motor:** 48V/750W Bafang Motor
- **Battery:** 48V 16Ah LG Battery
- **Battery Charger:** US Standard 54.6V 3.0A Charger, Voltage 110-240V
- **Battery Life:** Approximately 800 complete charge/discharge cycles
- **Front Fork:** Lockable shock absorber air fork, golden aluminum tube
- **Handlebar:** Straight handle, 600\*22.2\*25.4MM\*2.2T\*6°H30MM, 25.4MM at the middle expansion tube.
- **Riser:** Aluminum alloy folding riser. 8° forward tilt double screw folder. Lock front fork height 23.5MM. The vertical pipe is 255MM long. Equipped with  $\phi 25.4 \times 31.8 \times 270 \text{MM} \times 3.0 \text{T}$  double-needle gland riser.
- **Seat tube:** 33.9\*450MM\*2.2T, safety line length 100MM.
- **Parking rack:** 20" aluminum alloy adjustable side support, the distance from the bottom of the support to the rivet hole is 220MM, which can be adjusted to 285MM.

## **Read This First: Safety and Compliance with the Law**

Congratulations on your purchasing of your new e-bike. Your new e-bike is an excellent piece of personal transportation equipment that will give you good service for many years.

Before you start using your e-bike, we want you to be aware of a few important points. Please read this section carefully.

- **Observe Laws Regarding the Use of Battery-Operated Bicycles**

Your e-bike is designed and manufactured to meet safety requirements as a battery-operated bicycle. However, state and local laws governing the use of battery-operated bicycles on public roadways, parks, and other open areas may differ. Please check with your local authority before using your e-bike in public areas.

- **Observe Laws Regarding the Use of Bicycles**

Note that all laws regarding the use of bicycles in public areas, such as those mandating the use of helmets and the use of infant seats, will automatically apply for e-bikes. Check with your local authority on what restrictions might apply.

- **The Lithium-ion Battery of Your e-Bike**

Your e-bike is equipped with the latest battery technology. The lithium-ion battery is much lighter than lead- or nickel-based batteries that are being used in some older models.

- **Your First Ride**

Please be VERY CAREFUL when you are ready to get on your e-bike for the first time because that the e-bike moves significantly faster than a regular bicycle at active power-assisted mode. Take your e-bike to an area with a lot of open space before you start. Do not start pedaling hard as soon as you get on the e-bike (as you normally would be with a regular bicycle), as the e-bike will accelerate under pedal-assist mode and you may be unprepared for the sudden increase in speed. However, after a few times, you will enjoy using the pedal-assisted function.

## Assembling Your New e-Bike

If you purchased your e-bike unassembled, please follow these instructions to assemble your e-bike under the guidance of an adult or a qualified technician. Assembly is quite easy as most of the parts are already assembled; you need only to put a few pieces together to complete the job.

For more information. Please refer to the following way:

Email: [support@vitilanebike.com](mailto:support@vitilanebike.com)

Facebook: Vitilanebike

Instagram: Vitilanebike

Website: [www.vitilanebike.com](http://www.vitilanebike.com)

Youtube: Vitilanebike

Twitter: Vitilanebike





# Remove the Battery



1. Open the buckle.



2. Push the key up once, then turn the key to retract the lock.



3. Fold the frame and remove the battery.





## Air Shock Absorption Front Fork



**American Style Valve**



**Inflation air pressure is determined by rider comfort  
Generally between 80-100PSI**



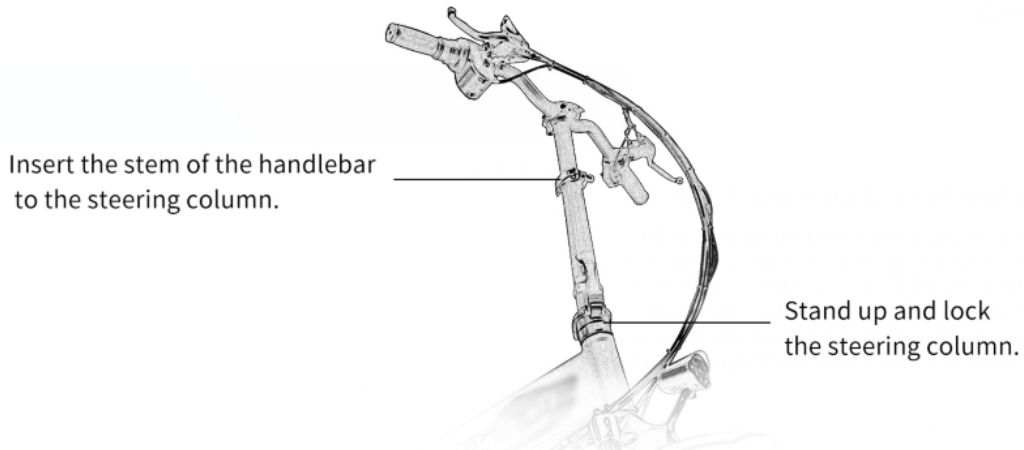
## ● Check that the Package is Complete and Undamaged

Your e-bike comes in a carton containing the following:

- ✧ The main body of the e-bike – consisting of the frame, the front and rear wheel, the gear and chain, the front and rear brake, the battery on the frame, the rear fender.
  
- ✧ The handlebar subassembly with the battery's keys that attached on it – the handlebar subassembly is not really separate, as it is connected to the main body by the brake cables and electrical wires. The handlebar also has the brake levers and gear control already assembled. Additionally, the handle also has an integrated control for the throttle mode power-assisted, a display panel.
  
- ✧ The Seat – the seat is attached to its pedestal stem.
  
- ✧ Tools and other parts –tools, one charger, a pair of foot pedals and this manual, they are contained in a separate box.

- **Assembly - Step 1: Attach the handlebar subassembly**

Stand the main body of the e-bike on the kickstand. Stand up and lock the steering column that is at the front of the main body frame, insert the stem of the handlebar subassembly into it. Make sure that the fork (that will hold the front wheel) is pointing forward, and orient the handlebar accordingly. Insert the stem all the way and tighten from the top using the quick lock.



- **Assembly - Step 2: Installing the Seat and Pedals**

Insert the pedestal stem of the seat into the seat column of the main body frame, use the built-in lever to tighten.

Attach a pedal on each side of the crank, note the distinction between left pedal and right pedal, tighten with the multi-tools.

**Note the distinction: the installation of the left and right pedals**



**Note:**

Under normal circumstances, the rotation directions of the left and right pedals are different.

1. When installing the left pedal, turn the installation tool counterclockwise.
2. When installing the right pedal, turn the installation tool clockwise.

**Liability statement:**

Due to the model and time of manufacture of pedals may vary. To avoid damage to the threads of the crank. When installing for the first time, if the rotation direction is not correct, you can try to rotate it in the opposite direction. We are not responsible for the direction of rotation. Thanks for your understanding.

Inflate the tires to proper pressure.

At this point, your e-bike is a completely functional bicycle, although without any battery operated to function as yet. Check all tightening points to make sure. Take a short ride. Adjust the height of the handlebar, and the height and the tilt of the seat, if necessary, for maximum comfort.

**● Assembly - Step 3: Charging the Battery**

Take out the charger from the box, attached the power cord and insert that to any wall outlet. Insert the plug at the end of the smaller cable into the charging terminal of the battery and start charging. The charging terminal is on the side of the battery opposite to a hole on the side of the frame. The LED on the charger glows RED while charging and glows GREEN when charging is complete. The battery should be turned OFF while being charged. When the LED on the charger turns Green, disconnect the charging cord and cover the charging terminal with the rubber cap. If a battery is installed on the e-bike and turned ON, the display panel will show the charge level of the battery when the bike turned ON.

**You are now ready to start using your e-bike.**

## Operating Your New e-Bike

The method to turn on the bike is:

- I. Turn on the battery;
- II. Press power button on the left handle bar until the display lights on;
- III. Ride on the bike and twist the throttle bar or pedal the bike, the bike will move, you can change the power level with control buttons, level 1 is the slowest and level 5 is the fastest, level 0 is human model.

Your e-bike is driven by a motor embedded in the hub of the rear wheel. The motor is powered by a battery. The amount of power delivered to the motor, and hence the accelerating force on the e-bike, is controlled by you in a way according to the power-assisted mode or full power mode you choose.

You can configure the e-bike to operate in the pedal-assist-only-mode or the full power mode (should check against local laws to ensure full power mode is permitted) where you can also use the hand throttle to deliver power to the motor.

### ● Your First Ride

(Reprinted from the Safety and Compliance with the Law section)

Please be VERY CAREFUL when you are ready to get on your e-bike for the first time because the e-bike moves significantly faster than a regular bicycle at active power-assisted mode. Take your e-bike to an area with a lot of open space before you start. Do not start pedaling hard as soon as you get on the e-bike (as you normally would do with a regular bicycle), as the e-bike will accelerate under pedal-assist mode and you may be unprepared for the sudden increase in speed. However, after a few times, you will enjoy using the pedal-assisted function.

### ● Pedal-Assisted

You must turn on the battery to use the e-bike in pedal-assisted mode.

In the pedal-assisted mode, power assist is triggered when you pedal forward, and power assist stops when you stop pedaling, sometime would be delay. In other words, power assist happens as long as you pedal. You don't need to pedal hard. All you need is to apply a light force to the pedals continuously to maintain the current flow. When you apply one of the brakes, power assist will automatically stop, allowing the e-bike to slow down and stop. Power assist will turn itself off when the e-bike has reached the maximum speed that the power level you choose.

You should use the gear shifter at the handlebar to set the gears appropriately according to road conditions and pedal, as usual, you will find that you need to exert a lot less effort and the e-bike travels faster and at a more steady speed.

- **Cruise Control**

Cruise Control will be triggered when you holding thumb throttle for 8 seconds, and it will be released by braking/pedaling or throttling.

- **Thumb throttle Control**

In the hand throttle mode, amount of power assist is determined by the throttle switch controlled by your left hand. You control the throttle by twisting it from its resting position, the farther the throttle switch is from its resting position, the more power is delivered to the motor to accelerate the e-bike. When you want to slow down, you simply release the throttle and let it return to its resting position, and simultaneously apply the brakes if necessary.

You do not need to pedal the e-bike if you use the hand throttle. However, you can pedal while commanding power assist. If you do pedal to help the movement, you conserve energy and the charge in the battery will last longer.

- **Charging Your e-Bike Battery**

Your e-bike battery is a lithium-ion battery. Lithium-ion battery requires specially designed chargers. You should never charge your battery with a substitute charger that is not designed for this use. Use of an unsuitable charger to charge a lithium-ion battery will result in overheating, fire or even explosion. Ensure charger voltage is consistent with battery voltage. If your charger is lost or damaged, contact your dealer to order a replacement.

Charge your battery while the e-bike is not in use. You should turn off the battery before you charge it. You may charge your battery while it is mounted on the e-bike, or after it has been removed from the e-bike.

Do not place either the charger or the battery near flammable substances while charging is taking place. Charging should not be done in the vicinity of infants and small children. It is also prudent to remove valuable objects from the immediate vicinity of the battery while it is being charged. Don't charge in unattended condition for a long time. For the safety of you and your family, it is recommended not to charge in the middle of the night.

In order to maintain battery life, do not charge until the battery completely discharged, it is recommended to start charging when the power is less than 20 percent. If the battery will not be used for an extended period of time, charge it fully and recharge it every month. If not used for several months, the battery may be completely self-discharge and unable to charge.

The length of charging time depends on the level of charge the battery still holds. If a battery is completely discharged, it will take 7 hours to be fully recharged.

When a battery is fully charged, the LED on the charger will transition from RED to GREEN. At this point, you should disconnect the charger. Do not leave the charger



connected to the battery for a very long period of time after charging is complete.  
(Leaving it connected for an overnight charging is OK.)

**It is normal for the charger and the battery to be slightly hot while charging is on-going.**

## ● **Removing the Battery from the e-Bike**

The battery is an important and costly part of the e-bike. It is designed to be locked into position with a key to preventing theft. You can take further precaution by removing the battery while the e-bike is parked unattended. You may also have a need to remove the battery from the e-bike to recharge it at a location where you cannot park your e-bike.

## ● **Maximizing the Riding Range**

Many factors affect the rate of use of the electrical energy and the riding range.

- ✧ You should fully charge the battery before a long journey.
  - ✧ Rough road conditions and hilly terrain will consume more energy.
  - ✧ Frequent change of speed will consume more energy.
  - ✧ Carrying more weight on the e-bike will consume more energy.
  - ✧ Keeping the tires properly inflated and keeping the e-bike clean and well lubricated will save energy.
  - ✧ Making sure that both wheels move freely when brakes are not applied will save energy. You should check brake adjustments frequently.
  - ✧ Pedaling as you ride will consume less electrical energy and increase the riding range.
- <sup>2</sup> When the battery is turned off, your e-bike functions as a regular bicycle. If you embark on a very long journey, you might want to turn off the battery for long stretches where the road is level or downhill and pedal the e-bike as a regular bicycle so that you can conserve electrical energy stored in the battery.

# Middle Set Negative LCD Display(UKS2)

## 1. Production Name

- ◇ Middle set negative LCD display

## 2. Model

- ◇ UKS2

## 3. SPEC

- ◇ 24V/36V/48V/60V/72V/UBE power supply
- ◇ Rated power 1W
- ◇ USB charge DC 5V 500mA
- ◇ Power off leak currant<1uA
- ◇ **Controller supply work currant** 100mA, peak lower than 300mA
- ◇ Operating temperature -20~70°C
- ◇ Storage temperature -30~80°C

## 4. Parameter and Material

ABS housing, the material for the transparent window is imported high hardness acrylic, the bracketis made of glass fiber and nylon.





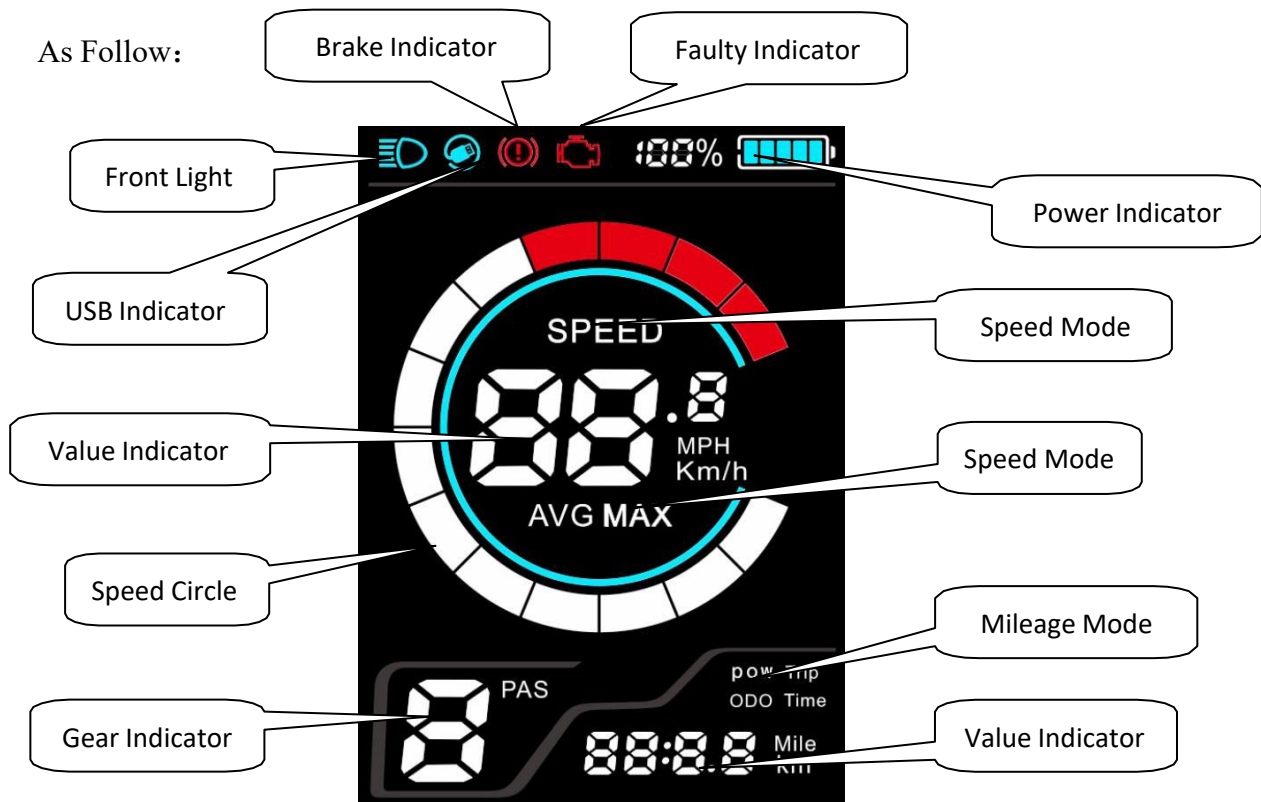
## 5. Production Introduction





- ✧ **Speed display:** including real-time speed “RT SPEED”, “MAX SPEED”, average speed “AVG SPEED”
- ✧ **SETTING SPEED SCALE(mph/kph):** Km / mile display can be set according to customer habits
- ✧ **Intelligent battery indicator:** Provide stable battery reminder through optimization algorithm, power is not affected by motor start-stop fluctuations, if the system supports battery communication, it can display accurate percentage power
- ✧ **5 levels of backlight brightness:** Set the brightness of the backlight according to customer usage habits. Level 1 is the darkest and Level 5 is the brightest
- ✧ **At most 9 gears:** Number of gears can be set according to user needs, like 3/5/9/6
- ✧ **Mileage display:** Can display accumulated mileage “ODO”, single mileage “Trip”, riding time “Time”
- ✧ **Output power indication:** Real-time display of output power (battery output power)
- ✧ **Fault Reason Display:** provide description for fault code
- ✧ **Walk assist function:** support 6km walk assist
- ✧ **Speed measuring magnets number adjustment:** numbers can be set according to the actual requirements of customers
- ✧ **PAS magnets number adjustment:** numbers can be set according to the actual requirements of customers
- ✧ **Endurance mileage indication (requires battery to support communication)**
- ✧ **Battery information display (requires battery to support communication)**
- ✧ **USB charging port, can provide rated charging for mobile devices, current: 500mA / 5V**
- ✧ **Program upgrade:** can be upgraded through serial port. For details, please refer to description documentation
- ✧ **Parameter setting:** parameters can be set by button, including gear, wheel diameter, voltage binning, limit speed, current limit, etc., please refer to the description of parameter setting

## 6. LCD Display Instructions

LCD Full Display

As Follow:



- ❖ **Speed mode:** Average speed (AVG SPEED), maximum speed (MAX SPEED), real-time speed (RT SPEED)
- ❖ **Speed display:** Display speed value, Km / h kilometers per hour, MPH miles per hour
- ❖ **Power Indicator:** Provide stable battery reminder through optimization algorithm, power is not affected by motor start-stop fluctuations, if the system supports battery communication, it can display accurate percentage power
- ❖ **Headlight indication:** Display  when the headlights are on
- ❖ **Brake Indicator:** Display  when brake power off.
- ❖ **Gear indicator:** Display the current power-assisted gears 0-9, where 0 is neutral and no power, and 1-9 corresponds to power-assisted gears. Display P when in walk assist mode.
- ❖ **Faulty Indicator:** Display  when a fault is detected.
- ❖ **Mileage mode:** Divided into single mileage “TRIP”, accumulated mileage “ODO”, riding time “TIME”.
- ❖ **Mileage display:** Display mileage information or time information according to the set mode.
- ❖ **USB display:** The interface displays  when the USB charging function is turned on.

## 7. Function Description



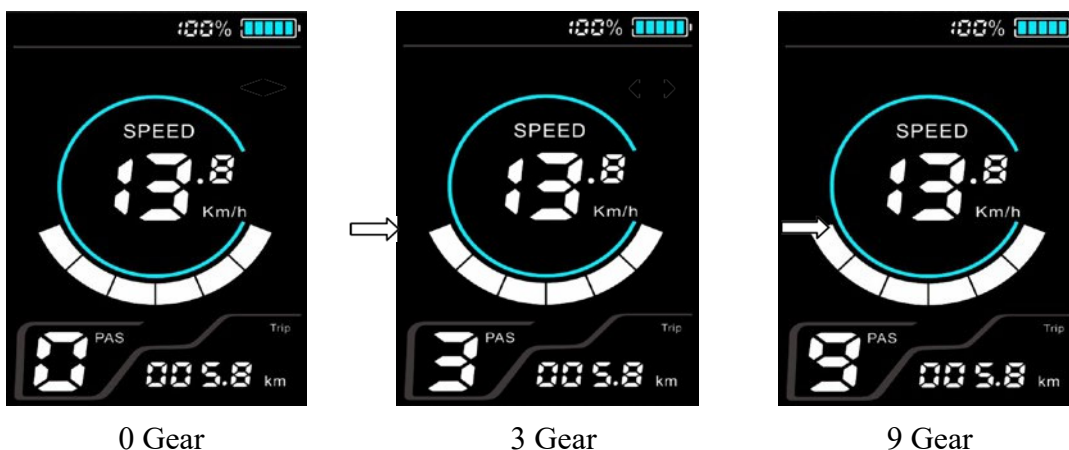
Button description as follow:

### 7.1 Power On/Off

Long press(1 second) **Power Button** when the display is off, display, the display is fully displayed and starts to work, the power of the controller is turned on; Long press(1 second) **Power Button** when the display is on, display power off, the power of the controller is turned off. If you ride for 5 minutes (time can be set by the user) without operating the meter, the meter will automatically turn off the power.

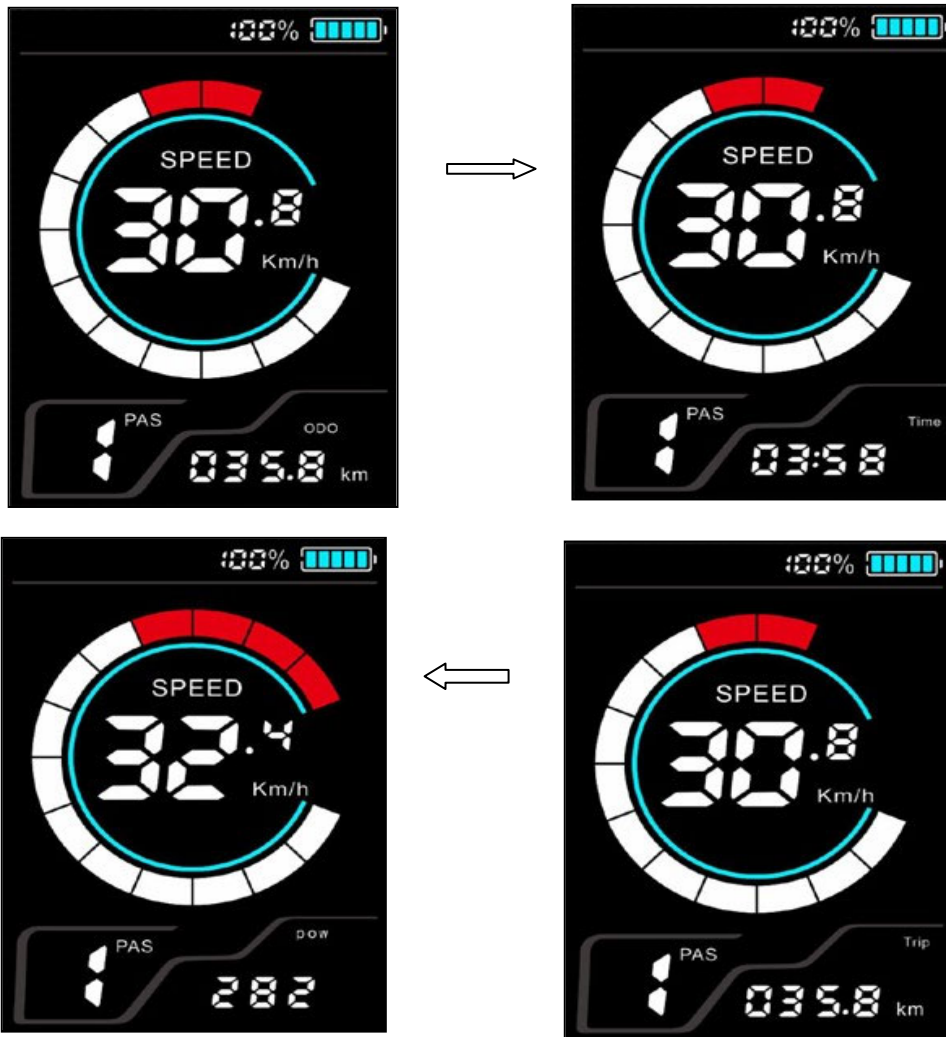
### 7.2 PAS Gear Choose

In the manual shift mode, short press **Plus Button** or **Minus Button** to switch the assist position, change the assist ratio, the lowest 1st, the highest 9th, the default is 1st when the meter is turned on, and 0 is the neutral assist.



### 7.3 Mileage Mode Switch

When power on, short-press **Power Button** to switch the mileage display mode, and the following information is displayed cyclically: riding time (Time) → accumulated mileage (ODO) → power information (Pow) → single mileage (Trip).

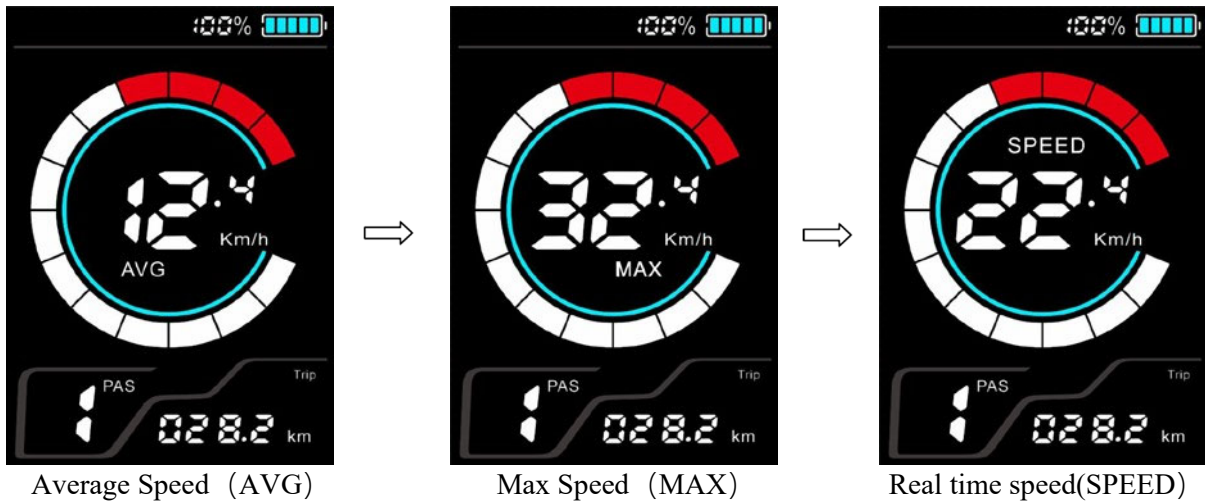


\*If there is no key operation for 5 seconds, the meter will automatically return to the single mileage display state.

## 7.4 Speed Mode Switch


When power on, short press the **Mode Button** to switch the speed display mode, and the following information is displayed cyclically: real time speed (RT SPEED) → average speed (AVG SPEED) → maximum speed (MAX SPEED).

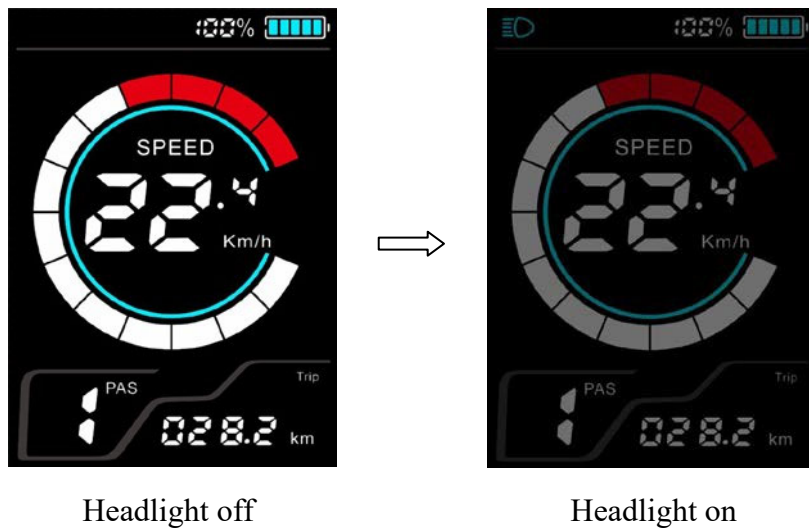




\*If there is no key operation for 5 seconds, the meter will automatically return to the real-time speed display state.

## 7.5 Headlight / Backlight Switch

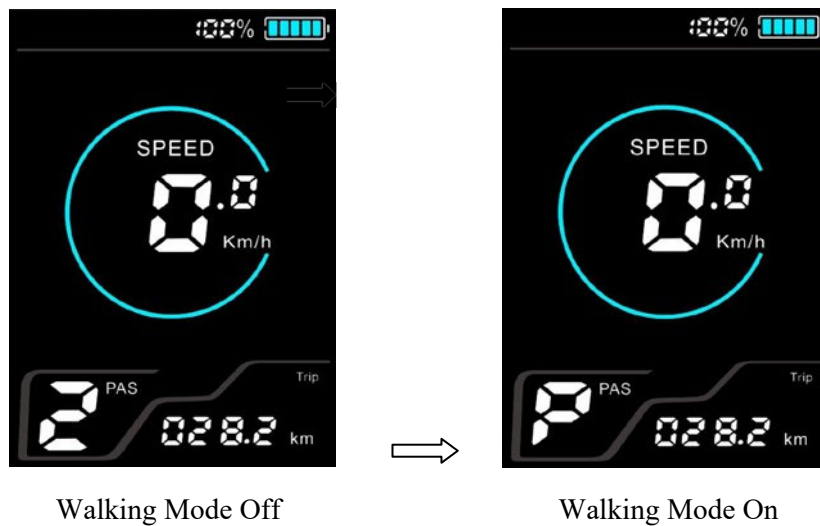
Press and hold **Plus Button** (1 second), the brightness of the meter's backlight decreases, and the lights are turned on  (requires controller support). Press and hold **Plus Button** again (1 second), the display backlight will return to its original brightness, and the lights will be turned off at the same time.



\* Meter backlight brightness can be adjusted in 5 levels. Users can set it according to their needs.

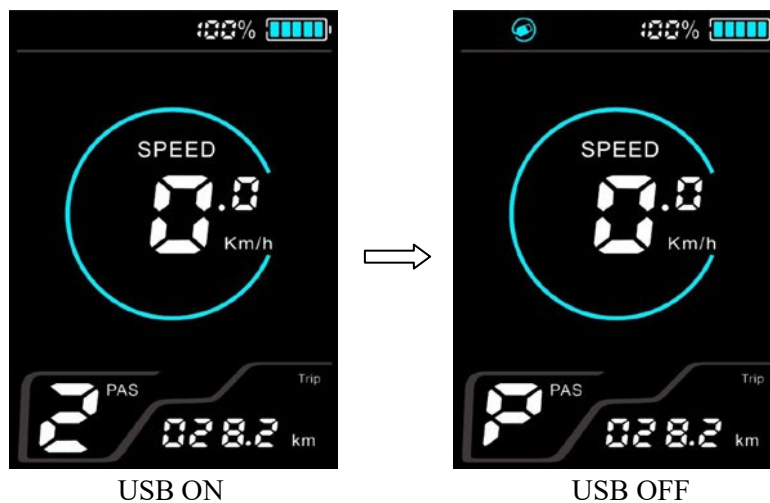
## 7.6 Walking Mode(6km walk assist)

Press and hold **Minus Button** (1 second), the electric bike enters the boosting state, the speed displays the real-time speed, and the gear position displays “P”. Release **Minus Button** walking mode.



## 7.7 USB Function

Long press **Mode Button** (1 second), the USB function is turned on, the user can use the USB function, and long press **Mode Button** for more than 1 second, the display will close the USB function, and the charging parameter is DC 5V 500mA.



## 7.8 Clear Data

Press **Plus Button** and **Minus Button** simultaneously for 1 second to clear the temporary data. The cleared data includes the maximum speed (MAX SPEED), average speed (AVG SPEED), single mileage (TRIP), and riding time (TIME).

\*The above data will not be cleared when the display is turned off or the electric bike is turned off.

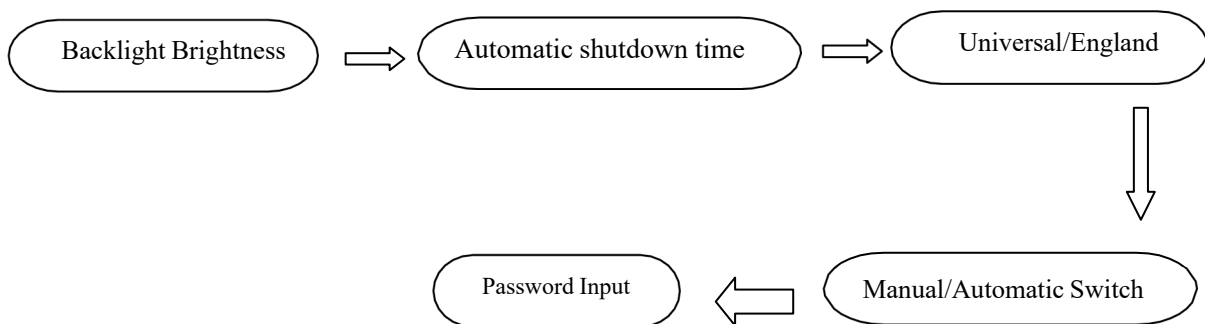
## 8. MENU Parameter Setting

When power on, press **Mode Button** twice (<0.3 seconds between presses), the system enters the parameter setting state. In this state, the meter parameters can be set. Press **Mode Button** twice again to exit the setting state. (<0.3 seconds between presses).

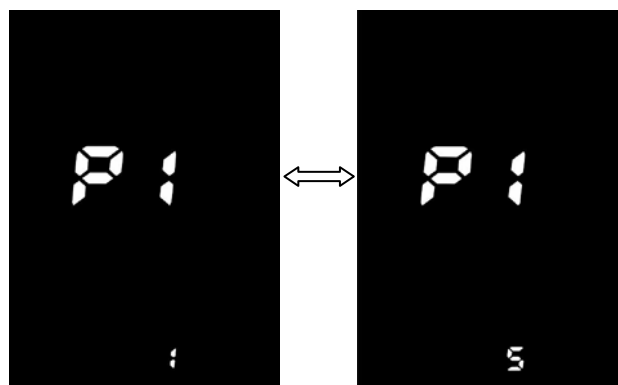
When in setting state, press **Mode Button** to select the desired adjustment item, when the parameter flashes, press **Plus Button** and **Minus Button** to adjust the parameter setting, press **Power Button** to save and switch, and press **Mode Button** twice to exit the setting state (<0.3 seconds between presses).

\*In the parameter setting state, if no key operation is performed for 30 seconds, the meter automatically exits the setting state. In the riding state (the speed indication is not 0), you cannot enter the setting interface. If you start cycling in the setting interface (the speed indicator is not 0), you will automatically exit the setting.

8.1 The display setting items are as follows:

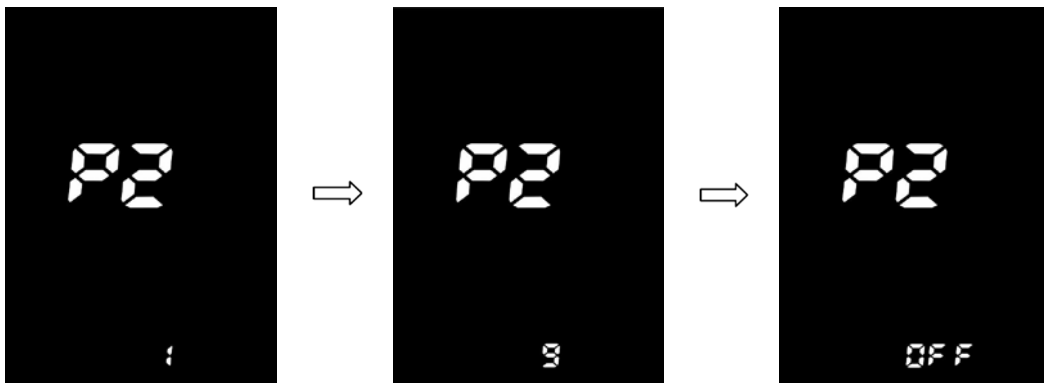


- ✧ **Backlight Brightness:** For item P1, press **Plus Button** and **Minus Button** to select the display 1 ~ 5, “1” is the darkest backlight and “5” is the brightest.



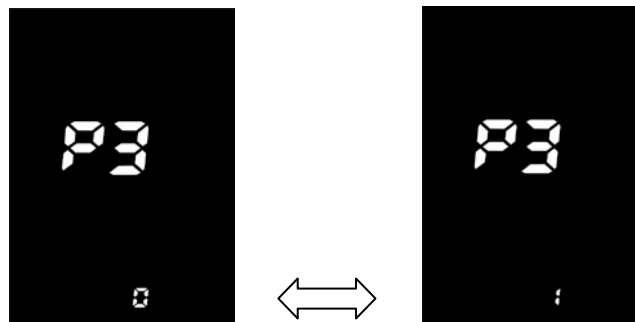
Backlight Brightness Adjust Interface

- ✧ **Automatic shutdown time:** for item P2, press **Plus Button** and **Minus Button** to adjust the position, 1 ~ 9 minutes represents the automatic shutdown time, OFF means cancel the automatic shutdown function.



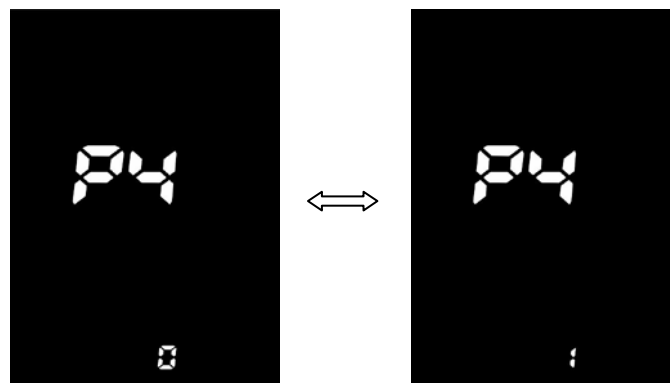
Automatic Shutdown time Adjust Interface

- ✧ **Universal/ England:** for item P3, press **Plus Button** and **Minus Button** to switch km/h or MPH display, set Universal/ England: 0 stands for universal system and 1 stands for England system.



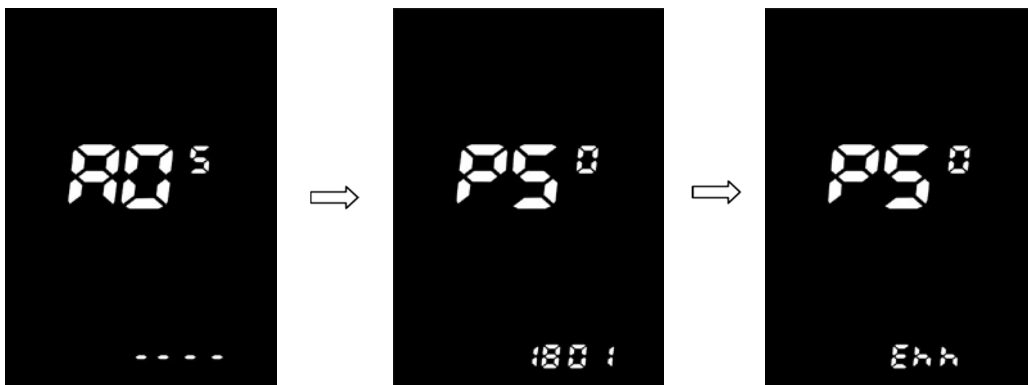
Universal/ England Switch Interface

- ✧ **Manual / Automatic Switching:** for P4 item, press **Plus Button** and **Minus Button** to select manual / automatic switching. 0 means manual gear, 1 means automatic gear.



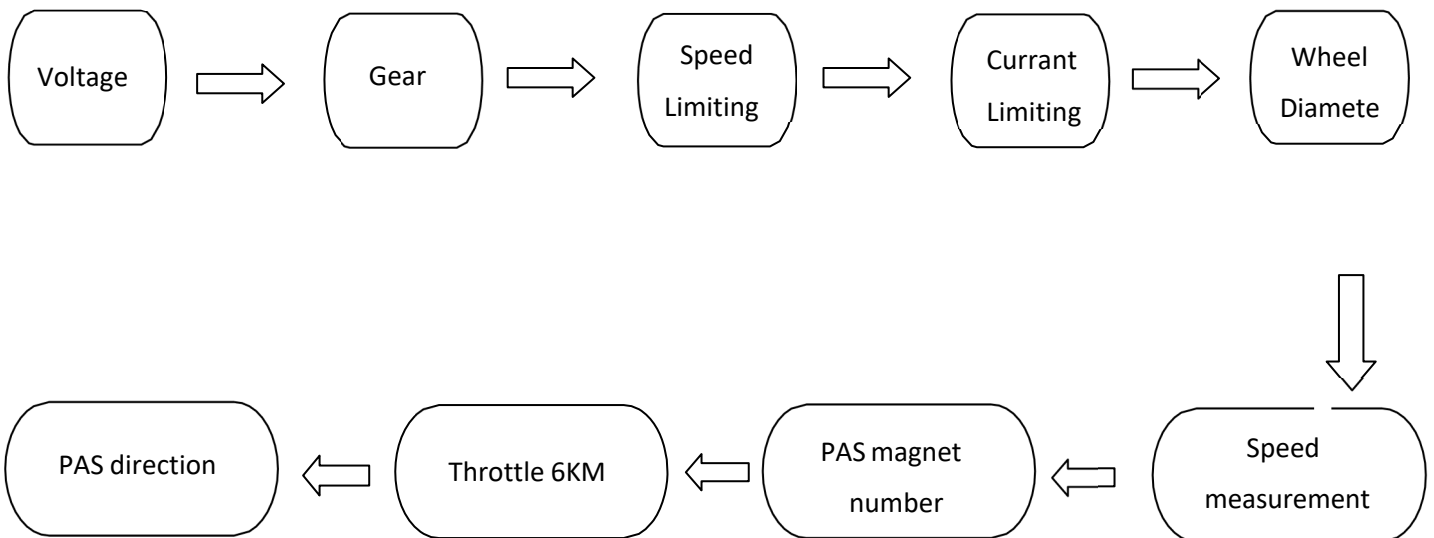
Manual / Automatic Switch Interface

**Password input:** Enter ADS advanced setting items, the speed position of the display shows “ADS”, indicating that entering the password can enter advanced setting items. Short press **Mode Button** to enter the password input state, the speed position of the display will show “PSD” at the same time, prompt for the password, press **Plus Button** and **Minus Button** to set the password value (0 ~ 9), press **Mode Button** to switch the password item, the password is 4 digits, and the default password "1801", press **Mode Button** to confirm the entry after the password adjustment is completed. If the password is wrong, “Err” will be displayed, and the display will automatically return to the real-time speed /single mileage display state. If the password is correct, enter the advanced settings sub-item.

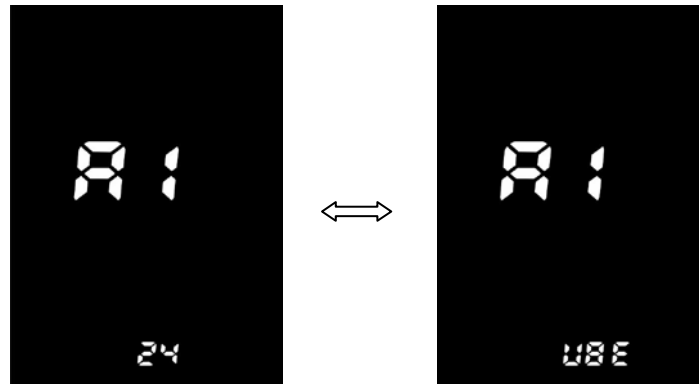


Password Input Surface

## 8.2 The advanced setting items are as follows :

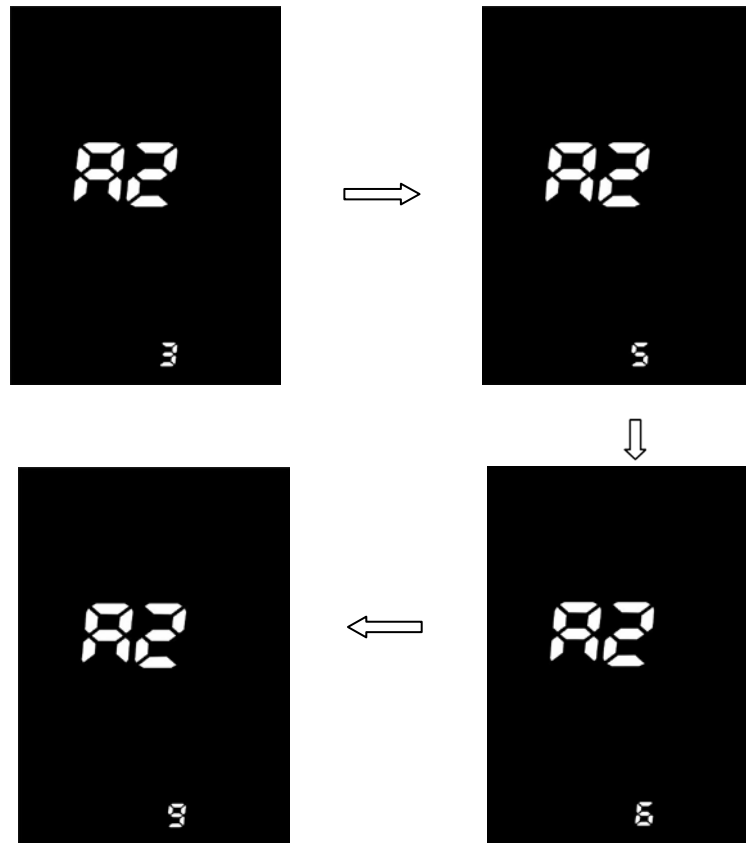


✧ **Voltage Choices:** A1item, Press **Plus Button** and **Minus Button** to switch between 24V / 36V / 48V / 60V / 72V / UBE. UBE stands for user-defined voltage (the voltage value can be set by a computer program. For details, please refer to the computer parameter setting instruction file).



Voltage Choices Interface

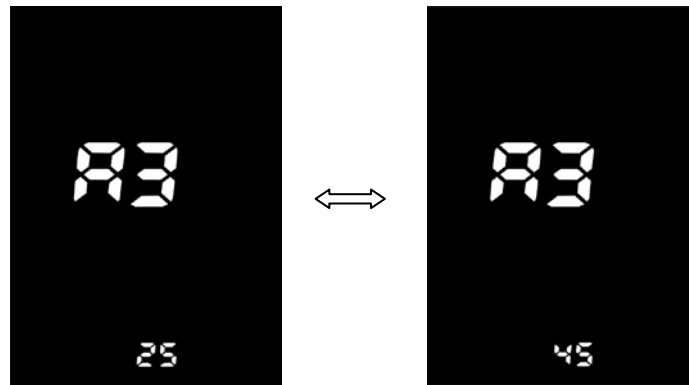
- ✧ **Assistance gear selection:** item A2, **Plus Button** and **Minus Button** to set the gear range 3/5/9/6. 1 means 3-speed system; 2 means 5-speed system; 3 means 6-speed system; 4 means 9-speed system.



Assistance gear selection Interface

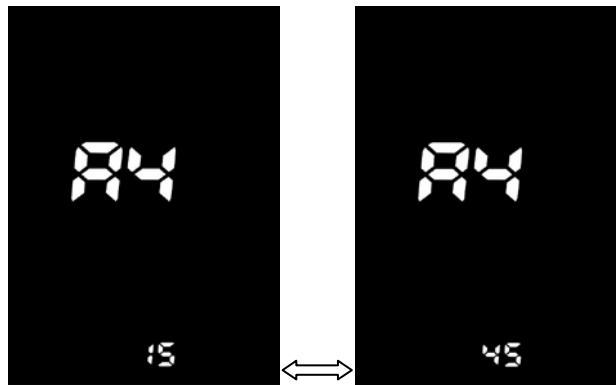
- ✧ **Speed Limiting Adjustment:** item A3, Press **Plus Button** and **Minus Button** to adjust the speed limit value. The default is 25km / h. Users can set the speed limit value according to their needs. After the adjustment is completed, press **Power Button** to confirm and exit.





Speed Limiting Adjustment Interface

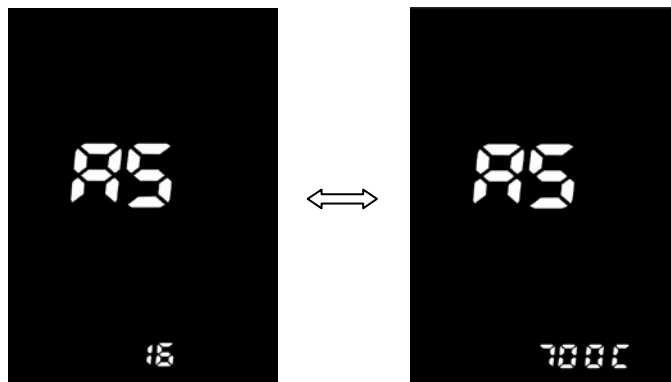
- ✧ **Current Limiting Adjustment:** item A4, Press **Plus Button** and **Minus Button** to adjust the current limit value. The default is 15A. Users can set the current limit value according to their needs. After the adjustment is completed, press **Power Button** to confirm and exit.



Current Limiting Adjusting Interface

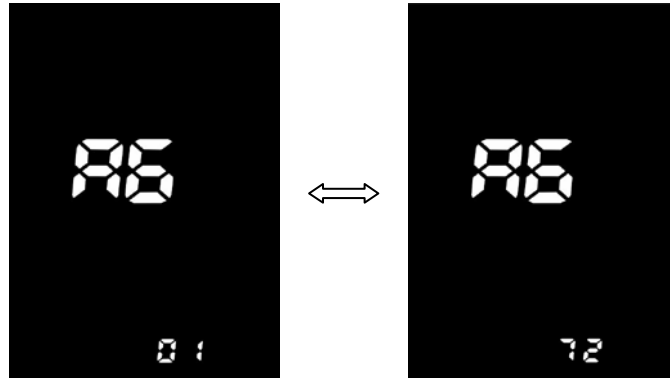
\*Speed and current are restricted by the motor and controller at the same time and may not be able to reach the set value.

- ✧ **Wheel Diameter Selection:** item A5, press **Plus Button** and **Minus Button** to switch the display 16/18/20/22/24/26/27 / 700C / 28/29/30/31/32, select the corresponding wheel diameter, the unit is inch. Incorrect selection of wheel diameter will cause abnormal speed.



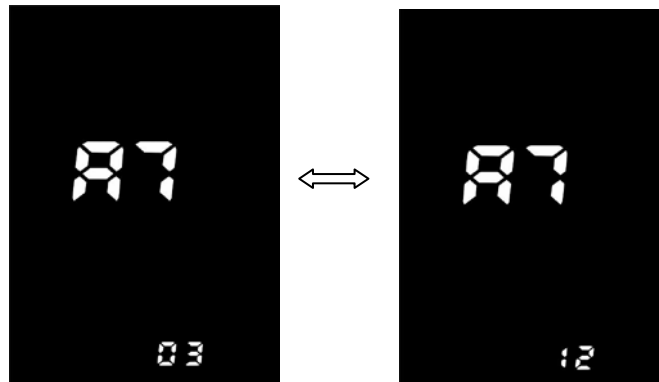
Wheel Diameter Selection Interface

- ✧ **Number of speed measuring magnets:** item A6, press **Plus Button** and **Minus Button** to adjust the number of speed measuring magnets 1 ~ 72. The user can set the number of speed measuring magnets according to the requirements. After the adjustment is completed, press **Power Button** to confirm and exit.



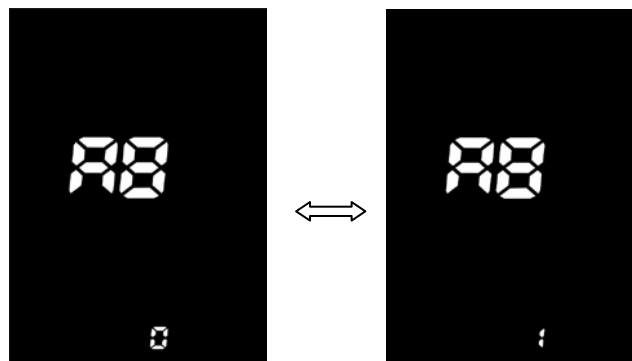
Number of speed measuring magnets Selection Interface

- ✧ **Number of PAS magnets:** item A7, press the **Plus Button** and **Minus Button** to boost the number of booster magnets 3 ~ 15. The user can set the number of PAS magnets according to the needs. After the adjustment is completed, press **Power Button** to confirm and exit.



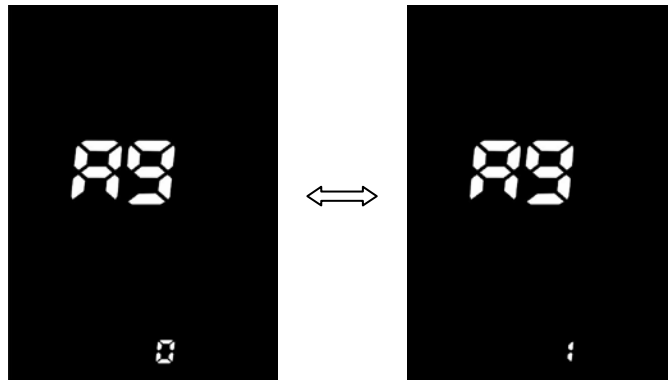
Number of PAS magnets Selection Interface

- ✧ **Throttle 6KM:** item A8, press **Plus Button** and **Minus Button** to select the 6km function switch.



Throttle 6KM Adjust Interface

✧ **PAS orientation:** item A9, press **Plus Button** and **Minus Button** to select the direction of the power sensor.



PAS orientation Adjustment Interface

## 9. Error Code Definition

UKS1 can provide error indications for vehicle faults. When a fault is detected, the LCD screen displays



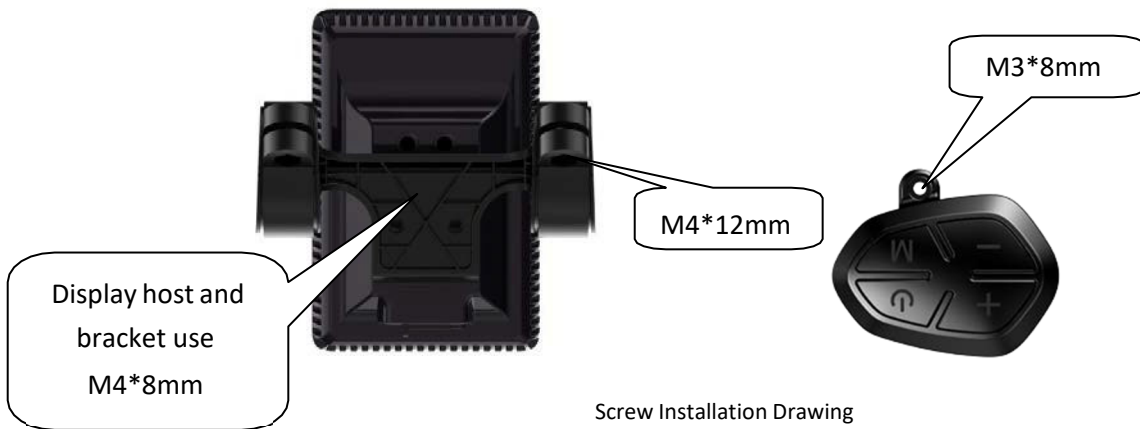
, and the error code “n” and error description are displayed at the speed display position. Please refer to the error code comparison table to determine the corresponding fault.



Error Warning Interface

## 10. Installation Instruction

**10.1** Please refer to the following figure for the instrument screw assembly. Pay attention to the screw tightening torque. Instrument damage caused by excessive torque is not covered by the warranty.



Screw Installation Drawing

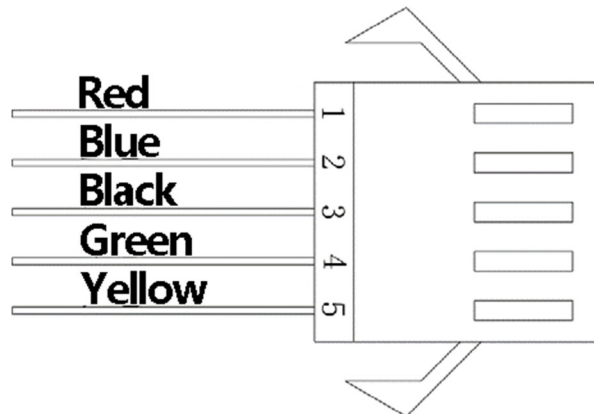
**10.2** Clips are suitable for three handlebar sizes, 31.8mm, 25.4mm, and 22.2mm. Customers can choose according to actual needs.

And 25.4mm and 22.2mm need to be matched with corresponding conversion.



## 11. Cable Outlet Definition

The color of the five-core waterproof line is <red, blue, black, green, and yellow>. The order is defined as follows:



- 1、 RED: Power+ (Battery power 24V/36V/48V)
  - 2、 Blue: Controller lock cable
  - 3、 Black: GND
  - 4、 Green: RXD display input signal, display receives signal from controller
  - 5、 Yellow: TXD display output signal, display sends signal to controller
- **Precautions:**
  - Pay attention to safety during use, and do not plug and unplug the instrument under the condition of power supply.
  - ◇ Try to avoid bumping on the instrument.
  - ◇ Regarding the background parameter setting of the instrument, please do not change it at will, otherwise normal riding cannot be guaranteed.
  - ◇ When the instrument cannot be used normally, it should be sent for repair as soon as possible.

## Care and Maintenance for Your New e-Bike

You should, in general, take care of your e-bike the way you would with a regular bicycle by keeping it dry, clean and the moving parts well lubricated. You should also avoid parking your e-bike in exposed areas whenever possible.

You should check the effectiveness of the brakes before each use.

### ● For your e-Bike, you should also take note of the following:

- ✧ Your e-bike is designed for regular country road use for a single person. Using your e-bike for extreme maneuvers, such as extreme off-road use, jumping, or carrying the excessive load will damage the e-bike and could cause serious injury.
- ✧ Do not use high-pressure water streams to clean your e-bike, as water might seep inside the motor or the wiring compartment and cause rusting of electrical parts or short circuits.
- ✧ Avoid parking your e-bike outside when there is rain or snow. At the end of a trip where there was rain or snow, bring the e-bike inside and use a clean, dry towel to eliminate any wetness.
- ✧ Be sure you do not lose both keys and remote controls. If you lost one key, you should immediately make a copy as a back-up. If you lost both keys, you will be unable to remove the battery from the e-bike. If you lost both remote controls, you can't turn on the bike.

### ● Special Care for the Battery and the Charger

- ✧ Use only the supplied charger to charge your battery. Do not use an unauthorized substitute. If your charger is lost or damaged, contact your dealer to order a replacement.
  - ✧ Do not open or alter the battery or the battery charger.
  - ✧ Do not place the battery near fire or corrosive substances. Do not immerse in water or other liquids.
  - ✧ Avoid subjecting the battery from high temperatures, such as directly under the hot sun, for prolonged periods of time.
  - ✧ Do not connect (short circuit) the two poles of the battery.
  - ✧ After much use, your battery's charge holding capacity will decrease. If you find that your battery does not hold sufficient charge even for short trips, you should contact your dealer to order a replacement. Under normal use, the battery will undergo 500 charging and discharging cycles.
  - ✧ If the battery will not be used for an extended period of time, charge it fully and recharge it every month. Store it in a cool place.
- <sup>2</sup> Your e-bike battery is engineered with precision for high capacity and long useful life. We do not recommend that you use it to power other electrical devices. Improper use of the battery will damage the battery and shorten its useful life and may cause a fire or an explosion.



## Safety

These safety precautions are provided for your benefit to protect you and those around you. Please read and follow them carefully to avoid unnecessary injury, damage to the product, or damage to other property.

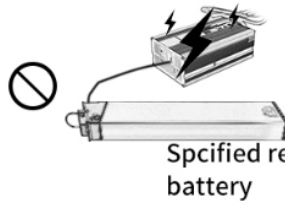
### ● Battery

#### ⚠ CAUTION

- Do not throw the battery into a fire. Do not overheat the battery.



- Do not connect the battery to other appliances other than your battery.



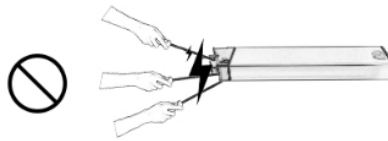
- Use only the specified charger to charge the battery.



- Do not take apart or modify the battery.



- Do not connect positive and negative terminals by using metallic objects.



(Elcclrolye leakage, overheating and/or rapture may result in this type of abuse.)

### ● Battery Charger

#### ⚠ CAUTION

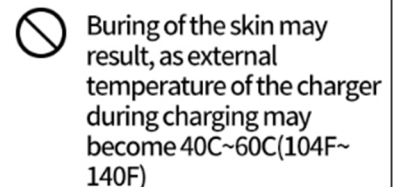
- Do not take apart or modify the charger



- Do not subject the charger to shocks, e.g. by dropping. Keep the charger away from water

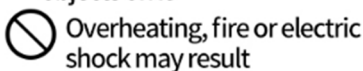


- Do not touch the charger with your skin for long periods during charging

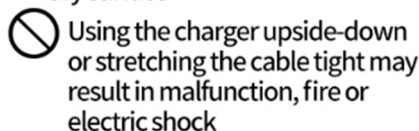


Overheating, fire or electric shock may result

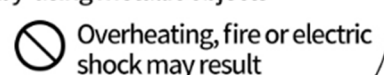
- Do not cover the charger or place objects on it



- Place the charger firmly on a flat dry surface



- Do not short-circuit the terminals by using metallic objects



**⚠ WARNING**

- Keep the battery away from water. Pouring water on the battery may result in short-circuit, overheating or permanent damage of the battery.
- Do not submerge the battery. Soaking the battery in water may cause irreparable damage.

**⚠ WARNING**

- Do not apply pressure to the cable or the plug.
  - ⊘ Placing the cable tightened between a wall and a window frame, or placing heavy objects on the cord or the plug may result in electric shock or fire.
- Be sure to insert the plug securely into a wall socket.
  - ⊘ Electric shock and overheating may result, causing fire.
- Do not touch the plug with wet hands.
  - ⊘ Electric shock may result.
- Keep out of reach of children or pets.
  - ⊘ Electric shock or injury may result.
- Do not attempt to use another maker or model's charger to charge the battery.
  - ⊘ Overheating, fire or electric shock may result.
- Do not use the charging plug and/or the power source Plug when they are dirty, wet or dusty.
  - ⊘ Insulation failure due to moisture absorbed in the dust may result, causing fire.
    - Pull out the power source plug and clean it with a dry cloth.
- To remove a cable from a socket, pull the plug, not the cable.
  - ⊘ Always pull the charging cable gently.
- Do not rotate the pedals when charging the battery while it is mounted on the bicycle.
  - ⊘ The cord may twist around the pedal or the crank, and the damage to the plug may result, causing electric shock or fire.
- Do not apply voltage over the rated value to the charger.
  - ⊘ Do not use sockets, correctors and other wiring devices with a power source other than standard rated voltage (AC110-240 volts) power supply.
    - Overheating, fire or electric shock may result.
- Do not use damaged components such as charge case, power cord, plug etc.
  - ⊘ Electric short, short-circuit or fire may result.

## Trouble Shooting

As one or more causes of failure might lead to the failure phenomenon, you should find out the true cause(s) and then take the appropriate solution(s) to rectify the problem. In case of doubt, please consult a qualified technician for service, repairs or maintenance.

Failure Phenomena	Causes of Failure	Solutions
<ul style="list-style-type: none"> <li>• Can't turn on the e-bike</li> </ul>	<ul style="list-style-type: none"> <li>• Battery is off</li> <li>• The Battery is out of power</li> <li>• Battery aging or damaged</li> <li>• Poor contact of display line</li> <li>• Failure of controller</li> <li>• Failure of switch</li> </ul>	<ul style="list-style-type: none"> <li>• Turn on the battery</li> <li>• Fully charge the battery</li> <li>• Replace the battery</li> <li>• Reconnect the display</li> <li>• Replace the controller</li> <li>• Replace the switch</li> </ul>
<ul style="list-style-type: none"> <li>• Pedal assist doesn't work</li> <li>• Gear doesn't work well</li> <li>• Brake doesn't work well</li> <li>• Display doesn't light on</li> </ul>	<ul style="list-style-type: none"> <li>• Failure of speed sensor</li> <li>• Rear derailleur mismatch</li> <li>• Brake caliper mismatch</li> <li>• Brake Disc is bent</li> <li>• Poor contact of display line</li> </ul>	<ul style="list-style-type: none"> <li>• replace speed sensor</li> <li>• Adjust rear derailleur</li> <li>• Adjust brake caliper or disc</li> <li>• Reconnect the display line</li> </ul>
<ul style="list-style-type: none"> <li>• Can't adjust the speed</li> <li>• Speed is less than 10km/h</li> </ul>	<ul style="list-style-type: none"> <li>• Battery's voltage is too low</li> <li>• Throttle governing bar is damaged</li> <li>• Poor contact of the controlling line</li> <li>• Spring failure or being locked</li> </ul>	<ul style="list-style-type: none"> <li>• Fully charge the battery</li> <li>• Replace the throttle governing bar</li> <li>• Replace the spring</li> </ul>
<ul style="list-style-type: none"> <li>• e-Bike's mileage is obviously inadequate after fully charged</li> </ul>	<ul style="list-style-type: none"> <li>• Inadequate tire pressure</li> <li>• Failure of charger</li> <li>• The battery cannot be fully charged</li> <li>• Failure of controller</li> <li>• Battery aging or battery damaged</li> <li>• e-Bike has not been well assembled</li> <li>• Too much upgrade road</li> <li>• Strong wind</li> <li>• Bad road</li> <li>• Overweight</li> <li>• Too many braking times</li> <li>• Temperature is too low</li> </ul>	<ul style="list-style-type: none"> <li>• Inflate tire with appropriate air pressure</li> <li>• Repair the charger</li> <li>• Examine and repair the controller</li> <li>• Replace the controller</li> <li>• Replace the battery</li> <li>• Re-adjust the e-Bike                             <ul style="list-style-type: none"> <li>• Boost the e-Bike by manpower</li> </ul> </li> <li>• Warm the battery above 0°C (32°F)</li> </ul>
<ul style="list-style-type: none"> <li>• Wheel hub stop running after switching on the power</li> </ul>	<ul style="list-style-type: none"> <li>• The connection of battery is loosen.</li> <li>• Poor contact of controlling line</li> <li>• The connection of wheel hub is loose or damaged</li> <li>• The protective board of the battery is broken</li> </ul>	<ul style="list-style-type: none"> <li>• Re-connect the battery</li> <li>• Replace the connection line</li> <li>• Replace the battery's protective board with a new one</li> </ul>



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**Youtube:** Vitilanebike

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**Twitter:** Vitilanebike