

Safety Guidelines for E-Bike Usage

Thank you for choosing the HillMiles series product. To ensure a quick and safe riding experience, please familiarize yourself with this manual. The company reserves the right to interpret and explain this manual.

1. Please ensure you comprehend and adhere to the safety notes outlined in this manual to significantly mitigate risk. Upon entering public spaces, please abide by all national and local laws and regulations. Remain vigilant while riding and maintain a safe distance from others and vehicles.
2. The electric bike must be operated according to the guidelines in the manual. The user will be responsible for any loss resulting from failure to follow the manual's guidelines.
3. For your initial ride, choose a private area free of traffic. Once you're comfortable with the product, you can venture onto public roads.
4. Before each ride, please ensure to thoroughly inspect for any loose fasteners or damaged parts. If this product makes abnormal sounds, please stop riding immediately and seek diagnostic support from the official after-sales team.
5. Avoid exceeding the speed limit. Never ride in areas where motor vehicles are present, regardless of the circumstances.
6. For safety reasons, users under the age of 16 are strictly prohibited from using this product. The use of this product is prohibited in the following situations:
 - Individuals under the influence of alcohol or drugs.
 - Individuals unable to participate in strenuous physical activities due to illness.
 - Individuals who are unable to maintain balance or who struggle with balance due to underdeveloped motor skills.
 - Individuals whose weights exceed the limit.
 - Pregnant women.
7. Exercise caution when using this product in bad weather such as snow, rain, slippery roads, and icing.
8. Do not attempt to charge this product if the charger or power supply is wet. When charging this product in a public area, ensure adherence to local safety laws and regulations.
9. For the sake of effective protection and easy use of the bike, always use officially designated parts.
10. If you want to modify your electric bike, please consult the official after-sales team and proceed with caution, ensuring adherence to local laws and regulations. The manufacturer assumes no liability for injuries or bicycle damage resulting from unauthorized modifications.
11. Don't charge the battery when the electric bike is turn on or running, as there is a risk of burns.

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This manual include important safety performance informatlon and service information.Please make sure you have read the following warning content before the first time you use our product.

If you borrow your electric bicycle to other people, please let the user read this manual, it could help to decrease the risk of accident.

Please wear a suitable and safe helmet before riding, please wear the clothes with fluores-cent and reflective stripes when you ride at night.Don't exceed speed limit, it is a main reason of traffic accident,

we should abide by the traffic rule, we shouldn't exceed the speed limit.

Don't touch the charging hole on the bike, or use metal touch it, otherwise, the accident will be caused by the transient short circuit of the current.

Zero starting, braking frequent, driving against the wind, carrying people or anything;insufficient air pressure on the tires. All of these will use much electric energy, and thenreduce the endurance mileage.

If you want the best endurance mileage, please do something as follows :

- 1) Please use assist mode;
- 2) On the premise of safety, don't brake frequently or use zero starting.
- 3) Don't overload;
- 4) Before riding, please check the pressure of the tire and supply enough pressure.

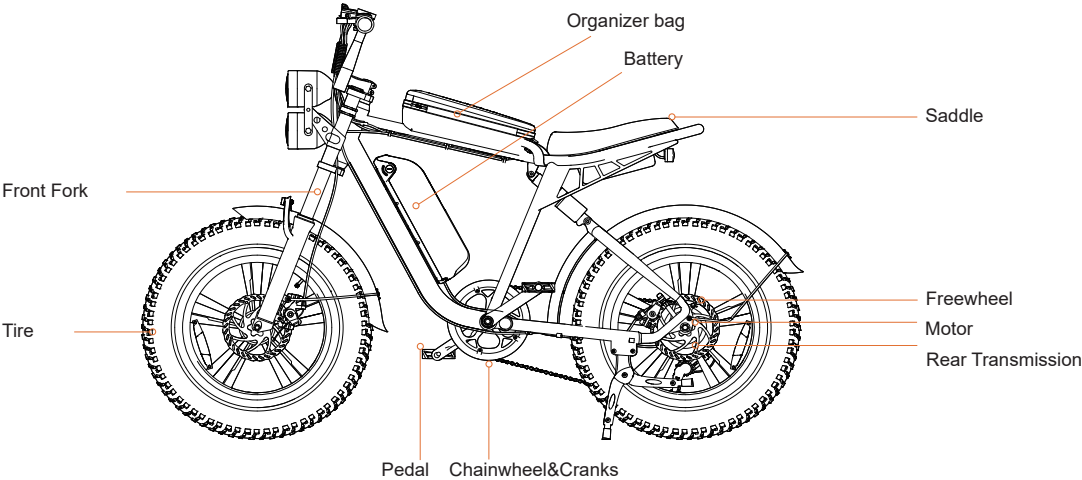
Our Ebike should avoid prolonged exposure to the sun or rain, avoid storage in places with high temperature or corrosive gas, so as to avoid electroplating parts and paint surface by chemical corrosion and electrical parts damage, resulting in operational failure and accidents.

Your current insurance business may not cover the situation you may encounter when riding an electric bike, please contact your insurance company or insurance broker forrelevant consultation.

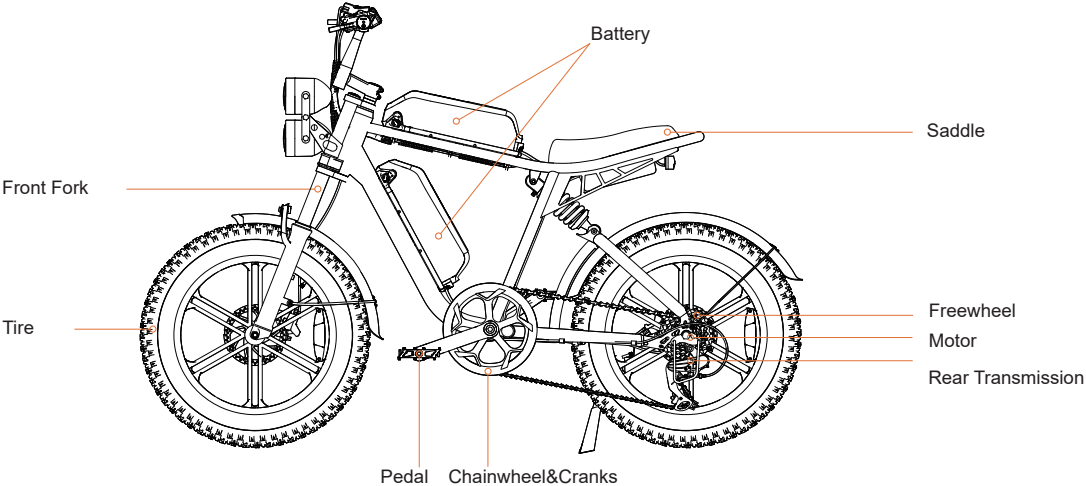
If you use our ebike in your country, please refer to the local laws and regulation. Bicycles are vehicles with certain risk fact factor, please be sure to abide by the traffic rules. At the same time, when emergency braking, brake the rear wheel first, then brake the frontwheel, when cycling speed is too fast. There is a danger of tipping over if you brake the frontwheel suddenly, please ride carefully.

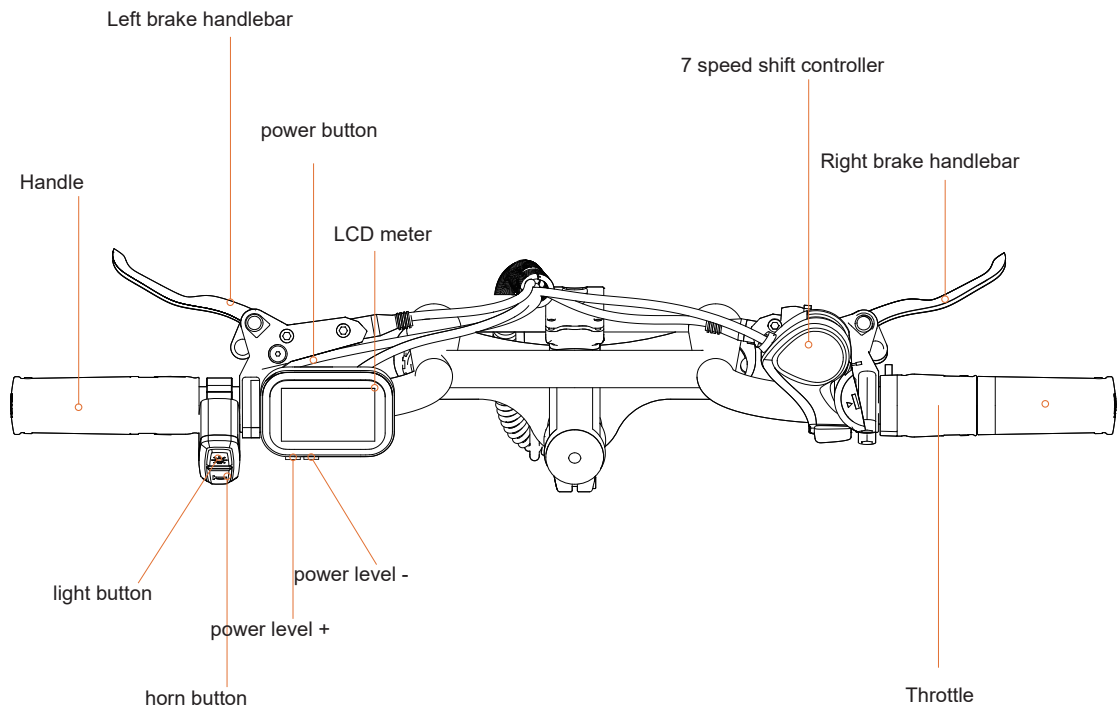
General information

Bike Components
MileZoom 1



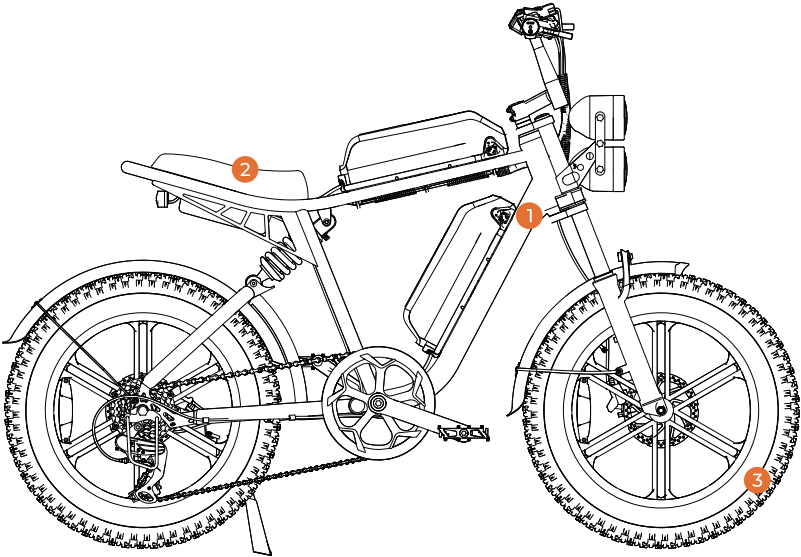
MileZoom 1 DB





Performance index	Project	MileZoom 1	MileZoom 1 DB
Specifications	Vehicle Size	1770*690*1150	1770*690*1150
	wheel Size	20inches	20inches
	Body Material	Aluminium alloy	Aluminium alloy
	Maximum Load	264.5lbs(120KG)	264.5lbs(120KG)
	Vehicle weight	88.6bsl(40.2KG)	99.8lbs(45.3KG)
	Maximum Speed	25km/h	25km/h
	Maximum Gradient	10°	10°
	Rear Derailleur	7-Speed	7-Speed
	Mileage Range	130km	260km
	WorkingTemperature	23°F-95°F(-5°C~35°C)	23°F-95°F(-5°C~35°C)
	Rated Voltage	52V	52V
	Battery Capacity	15.6AH	15.6AH*2
	Service Life	500 Times	500 Times
	Motor Power	250W	250W
	Motor Type	Brushless Gear Motor	Brushless Gear motor
	Maximum Torque	75Nm	75Nm
	Input voltage	100-240V	100-240V
	Output voltage	58.8V	58.8V
	Output current	3A	3A

- 1 Main frame
- 2 Saddle/Seat post
- 3 Front wheel
- 4 Tool box



Tool box list



OWNER'S MANUAL



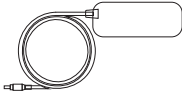
8-10mm/13-15mm/14-15mm
Wrench



Phillips screwdriver



4mm/5mm/6mm
Hex key



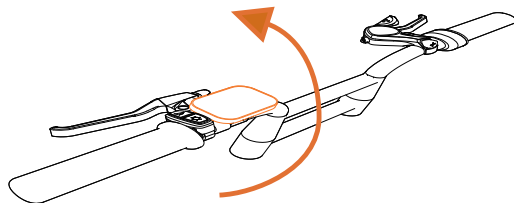
Charger



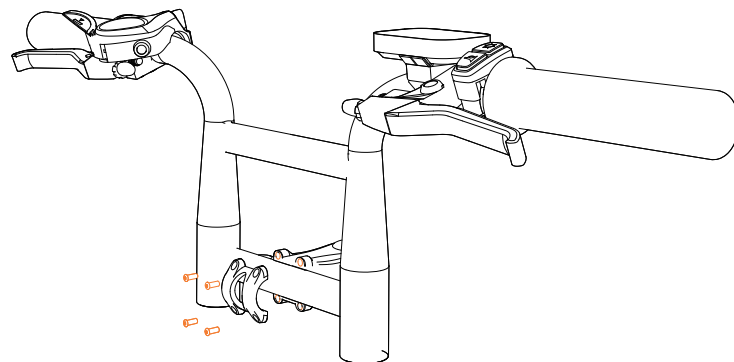
Bicycle Pedals

Please carefully inspect the items inside the box to ensure they are intact. If there are any missing or damaged items, please contact customer service promptly.

- (1) Dismantle the foam, and then rotate the instrument to the top of the handlebar.

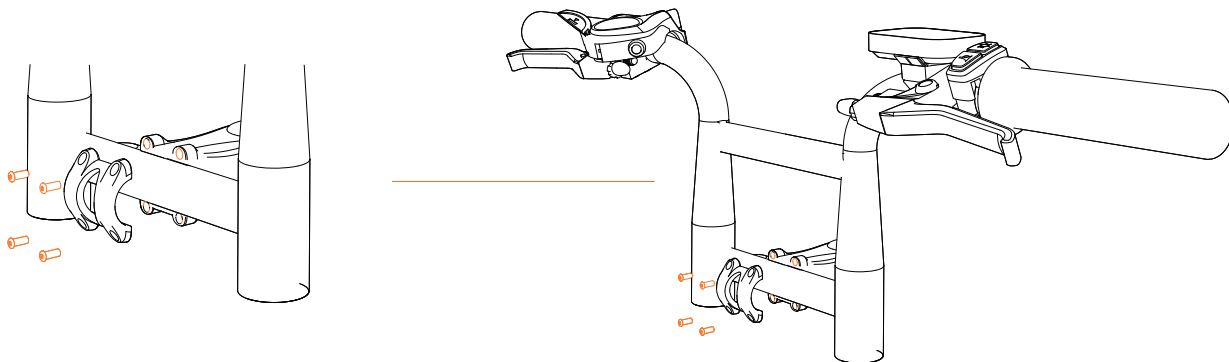


- (2) Place the handlebar at an appropriate position, make sure the "crosssymbol" is located at the center.

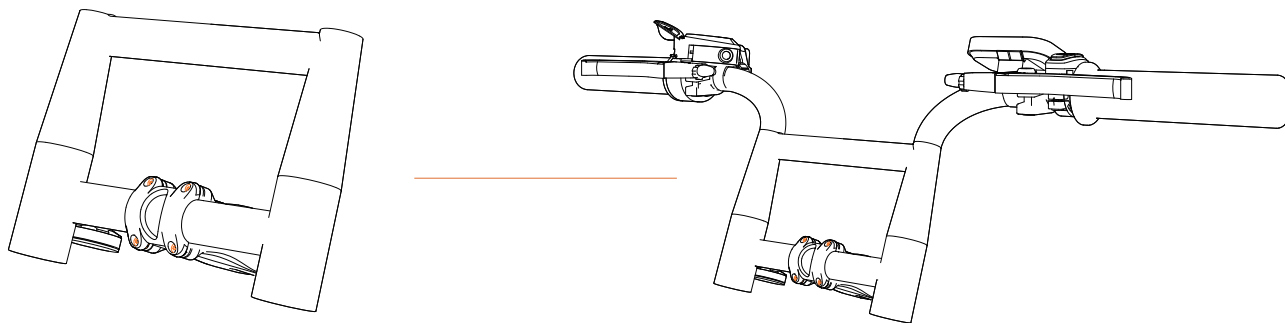


Install The Handlebar

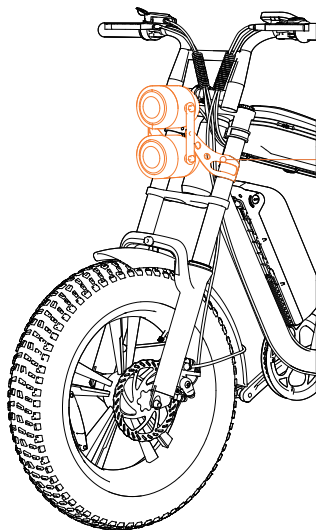
- (1) Use a 4mm hex key to install the 4 bolts by turning clockwise. The sequence is shown in the picture above. Please do not fully tighten them yet.



- (2) Once the bolts and the handlebar are in the right place, tighten the bolts fully with appropriate force, making sure not to overtighten.

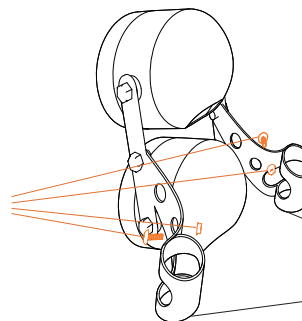


- (1) Take the headlight out of the carton.
- (2) Please follow the steps below to assemble the headlamp.



1.Align the installation position.

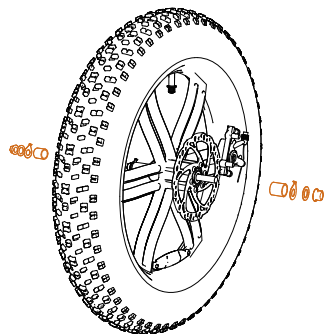
3.Align the screw holes, and then insert the screws to tighten them.



2.The fixing piece shall be inserted into the mounting hole.

Install The Front Wheel

- (1) The front axle is assembled according to the following steps.

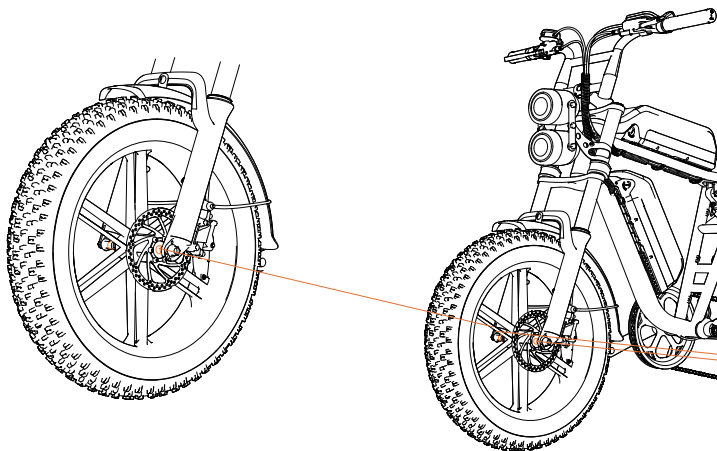


The spacer and washer shall be installed according to the picture.

- (2) Clamp the front wheel with the front fork and lock the front wheel screw with a wrench.

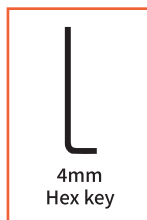


15mm
Wrench

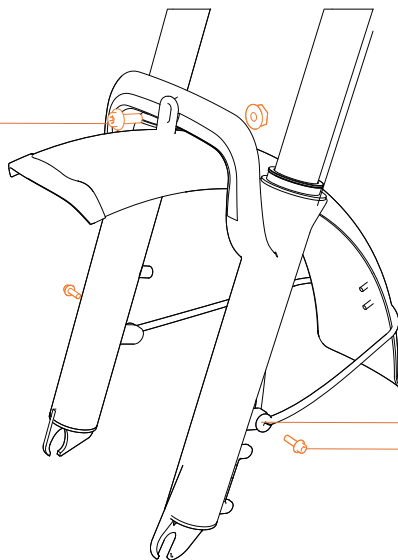


The shaft sleeve is clamped inside the front fork.

(1) Install as shown in the figure below.



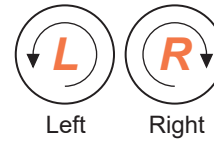
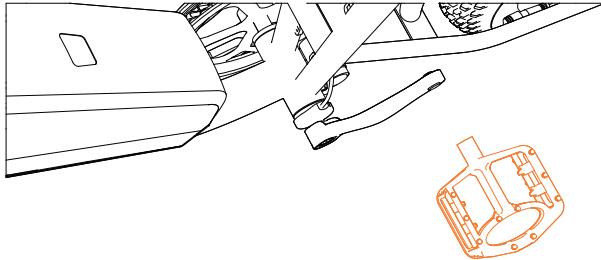
The lifting lug of the mud pan is connected with the hole of the frontfork axle pipe, and then threaded in the screw to tighten it.



The mudguard support shall be aligned with the frontfork mudguard take-up hole position, and then threaded into the screw for tightening.

Install The Fender/Pedals

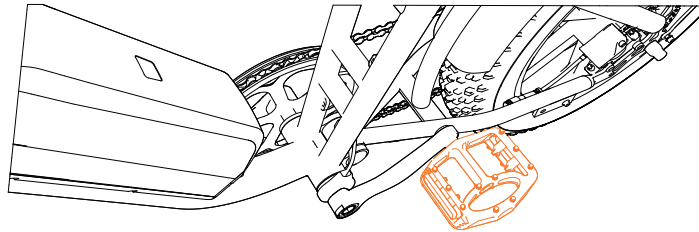
- (1) The pedals are marked with "R" (Right) and "L" (Left). This refers to the two sides of the e-bike. The R pedal goes to the side of the carbon belt, and the L pedal goes to the other side.



- (2) Manually install the left pedal by turning counter clockwise. Tighten the pedal securely with a 15mm wrench.
- (3) Manually install the right pedal by turning clockwise. Tighten the pedal securely with a 15mm wrench.



15mm
Wrench



1.Product name and model name

Intelligent LCD display for e-bike; model: YL61F-D.

2.Specifications

- 48V power supply
- Rated working current 15mA
- Maximum working current 30mA
- Leakage current at power-off <1uA
- Working current at the supply controller end 50mA
- Working temperature -10~60℃
- Storage temperature -30~70℃

3.Appearance and dimension

4.Function overview and functional areas

4.1 Function overview

The YL61F-D display offers a variety of features to suit your riding needs, including:

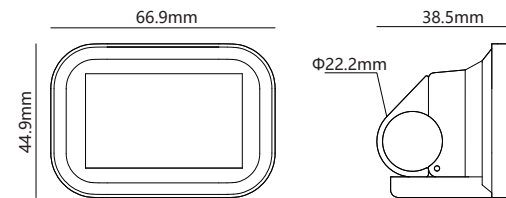
- Battery level indicator
- Assist level adjustment and indication
- Headlight indicator
- Speed indicator (including real-time speed, maximum speed (MAXS) and

average speed (AVG))

- Distance indicator (including ODO and trip distance (Trip))
- Error code indicator
- Bluetooth connection indicator (reserved)
- Parameter setting function



Fig. 3-1 Picture of Display YL61F-D



4.2 Functional area layout

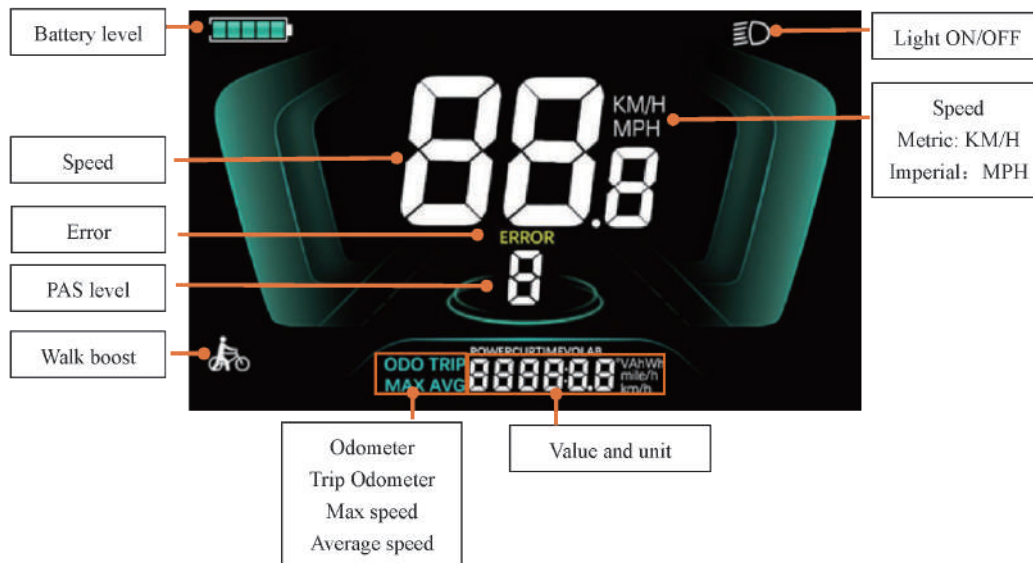



Figure 4-1 YL61F-D functional area distribution interface

4.3 Button definitions

The YL61F-D display is equipped with three buttons on the corresponding operating unit: power on/off  , plus  , minus  .


5.1 Power on/off

Long press  to power on / off the display. When the display is off, it will not use the battery power and the leakage current is less than 1uA.



 The display will automatically shut off if it is not used for more than 10 minutes.

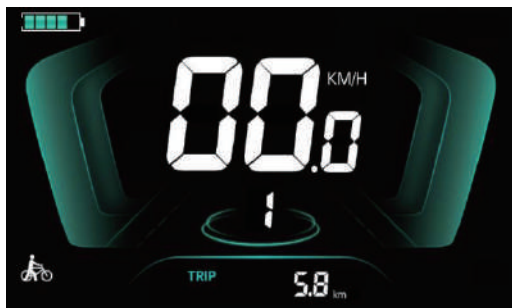
5.2 Display interface switching

When the display is powered on, it will show the Current Speed (km/h) and Trip Odometer (km) by default.

Short press  to switched cyclically between Trip Odometer (km), Odometer (km), Maximum Speed (km/h), and Average Speed (km/h).

5.3 Walk boost mode

Long press and hold , the electric bicycle enters the walk boost mode. The electric bicycles will travel at walking speed and the display shows . Release the button to stop the power output immediately and restore to the state before walk boost.



 The walk boost mode can only be used when pushing the electric bicycle, please do not use it while riding.

5.4 Turning on/off lights

Long press the **+** to make the controller turn on the lights and the display backlight becomes dim. Long press **+** again to make the controller turn off the lights and the backlight restore brightness.



5.5 Assist level selection

Press **+** / **-** to switch PAS level of electric bicycle, thus changing the motor output power.

5.6 Battery level display

The Battery level is shown as 5 bars. When the battery is full charged, all of the 5 bars lighten up. When the battery is fully depleted, the bar begin to flash, warning the user to charge the battery as soon as possible.



Full power 4 bars power 3 bars power 2 bars power 1 bar power



Empty power flashing

5.7 Error code indicator

If there is a fault occurs in the electronic system of the electric bicycle the display will automatically show an error Code.














Schedule 1 Error Code Definitions

YL-02 Error codes					
Error code	Definition		Error code	Definition	
E001	Controller failure		E004	Throttle failure	
E002	Communication failure breakdown		E005	Brake failure	
E003	Hall failure		E006	Motor phase failure	


6. Personalized parameter settings

Each setting needs to be done with the bicycle stationary. The personalized parameter setting procedure is as follows When the display is ON and the speed shows 0.

- (1) Press and hold   simultaneously for more than 2 seconds to enter the personalized parameter setting interface
- (2) Press  /  to toggle between the personalized parameter setting interface, and press  to enter the parameter changing state.
- (3) Press  /  to select the parameter. Long press  for addition operation, long press  for subtraction operation.
- (4) Press  to save the parameter settings and return to the personalized parameter setting interface
- (5) Long press  to save the parameter setting and exit the personalized parameter setting interface. The following options are available on the personalized parameter setting interface.

6.1 Backlight luminance setting

01P refers to the backlight luminance setting option, The adjustable range is : 1-3, 01 for the minimum luminance, 02 for the standard luminance, 03 for the maximum luminance.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface

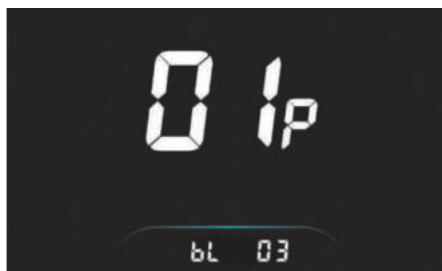


Figure 6-1 Backlight luminance setting interface

6.2 Metric and Imperial setting

02P is the metric and imperial setting option, 00 for metric and 01 for imperial.






Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.



Figure 6-2 metric and imperial setting interface

6.3 Rated voltage setting

03P is the rated voltage setting option. The available rated voltage range is : 24V, 36V, 48V, 52V, 60V.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface

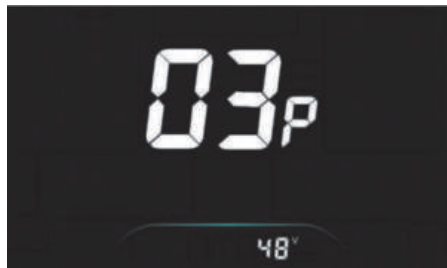


Figure 6-3 Rated voltage setting interface

6.4 Auto sleep time setting

04P is the auto sleep time setting option. To save the battery power and reach higher range, this display will be turned off after it has not been used for a time. The adjustable range is : 00-60min, 00 means no auto shutdown. The factory default setting is 10 minutes.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

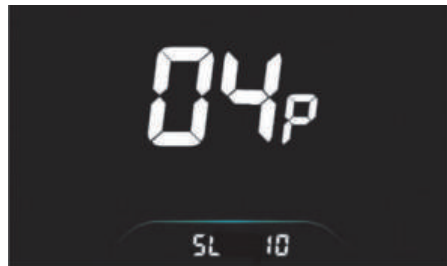


Figure 6-4 PAS level setting interface

6.5 PAS level setting

05P is the Pedal assist (PAS) level setting option. The available Pedal assist level setting are: 0-3, 1-3, 0-5, 1-5, 0-9.1-9.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

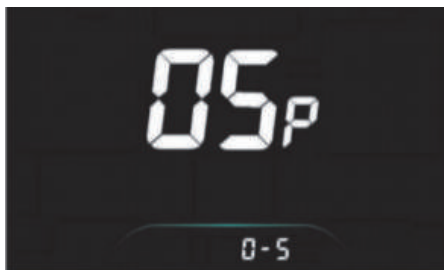





Figure 6-5 PAS level setting interface

6.6 Wheel diameter setting

06P is the wheel diameter setting option. The adjustable wheel diameter range is : 1~50inch.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface

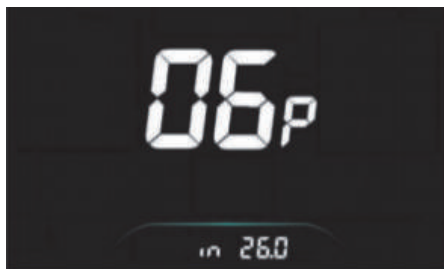


Figure 6-2 metrie and imperial setting interface

6.7 Number of speed sensor magnets setting





07 is the speed sensor magnet number setting option. The adjustable speed sensor magnet number range is : 1-255pcs
Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface



Figure 6-7 Number of speed sensor magnets setting interface

6.8 Speed limit setting

08P is the speed limit setting option. The adjustable speed limit range is : 1~100km/h.
(The maximum adjustable speed limit varies by different protocols)

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

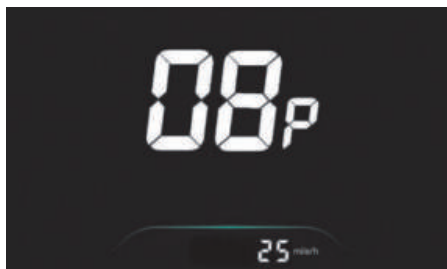


Figure 6-8 Speed limit setting interface

6.9 Start-up setting

09P is the start-up setting option. The display can choose the following start modes: 00-zero start, 01-non-zero start.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

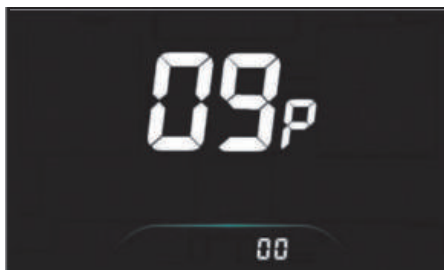






Figure 6-9 Start-up setting interface

6.10 Drive mode setting

10P is the drive mode setting option. The available drive modes are: 00-Pedal assist only, 01-Electric only, 02-Both Pedal assist and electric.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

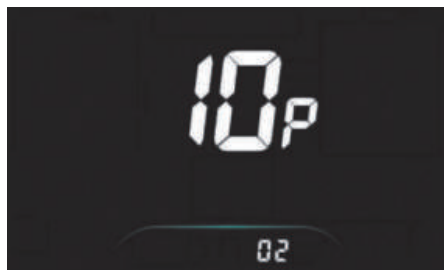






Figure 6-10 Drive mode setting interface

6.11 Pedal assist sensitivity setting

11P is the Pedal assist sensitivity setting option. When set to higher number, it will take more crank rotations to activate the motor. On lower numbers, it will take little crank rotation to activate the motor, The adjustable range is :1-24.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface

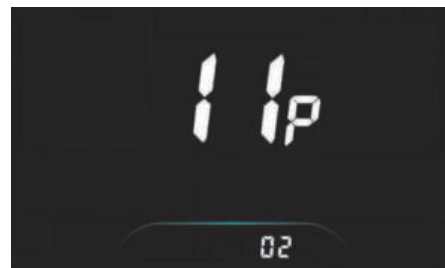


Figure 6-11 Pedal assist sensitivity setting interface

6.12 Pedal assist strength setting

12P is the Pedal assist strength setting option. The Pedal assist strength is the relative strength of the PWM signal from the controller when start to activate pedal assist, The adjustable range is :0-5. 0 is the weakest strength and 5 is the strongest.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

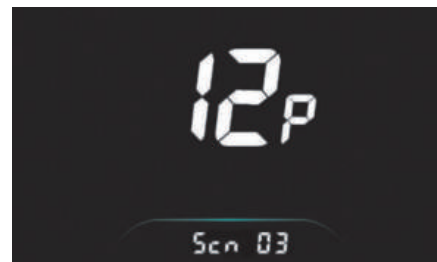


Figure 6-12 Pedal assist strength setting interface

6.13 Number of pedal assist sensor magnets setting

13P is the number of pedal assist sensor magnets setting option. The adjustable range is: 5-12 pes.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

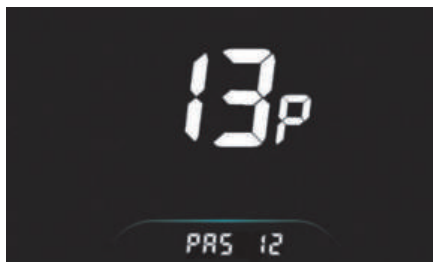






Figure 6-13 Number of pedal assist sensor magnets setting interface

6.14 Controller Current limit setting

14P is the controller current limit setting option, The adjustable range is : 1-50A.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface

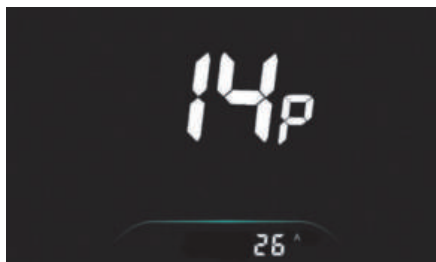






Figure 6-14 Controller Current limit setting interface

6.15 Battery under voltage value setting

15P is the battery under voltage setting option. The value can be adjusted based on the current rated voltage

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface

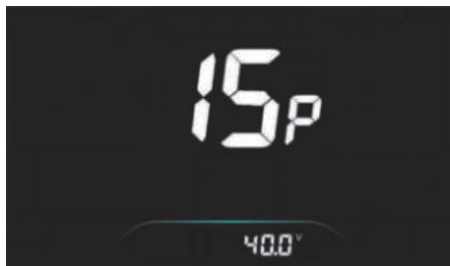


Figure 6-15 Battery under voltage value setting interface

6.16 ODO reset setting

16P is the ODO reset setting option. The adjustable range is : 00 represents the ODO not reset, 01 represents the ODO reset.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.



Figure 6-16 ODO reset setting interface

6.17 Controller automatic cruise setting

17P is the controller automatic cruise setting option. 00 means disable cruise, 01 means enable cruise

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.

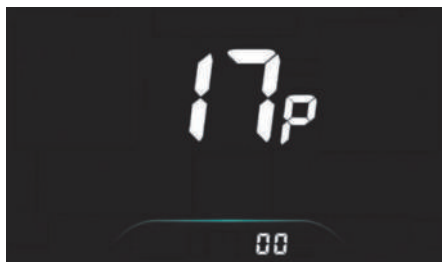






Figure 6-17 Controller automatic cruise setting interface

6.18 Promotion function setting

18P is the promotion function setting option. The adjustable range is : 00 represents no 6 km, 01 represents 6 km.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface

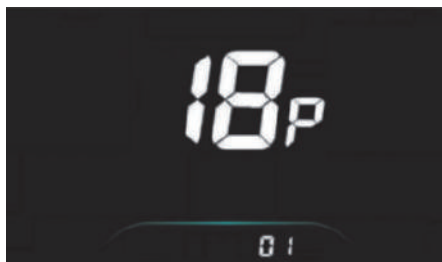


Figure 6-18 Promotion function setting interface

7.1 Restore factory default parameter settings operation

dE is the restore factory default parameter settings. dEF-Y is the restore the factory default settings, and dEF-N is netto restore.






Enter into the main setting interface and keep the speed at 0, press and hold  and  simultaneously for 2s to toggle to dEF-Y. Then after pressing  /  enter the restore factory default setting interface. Pressing  to confirm, the display will show dEF-0 for a few seconds and then automatically start to restore the default settings. The display will automatically exit to setting interface after the restoration.



Figure 7-1 Restore factory default parameter setting interface

7.2 Trip odometer reset operation

The display can record trip odometer and odometer, Trip odometer is not automatically reset after turning off. The trip odometer needs to be reset manually, The odometer can not be reset.

Press  to enter the parameter changing state. Press the  /  to select the parameter and press  to save the parameter setting and return to the personalized parameter setting interface.



Figure 7-2 Trip odometer reset interface

8. Quality Assurance and Warranty

8.1 Warranty info

- Yolín will offer a limited warranty for any failure caused by the product defects under normal use during warranty period.
- The product is warranted for 12 months from the date out of factory.

8.2 Warranty does not cover

- The shell is opened.
- The connector is damaged.
- Scratches on the appearance after the product is out of factory.
- Scratched or broken wires
- Failure or damage caused by force majeure (e.g. fire, earthquake, etc.) or natural disaster (e.g. lightning strike, etc
- Out of warranty period

9. Wire connection diagram

9.1 Standard wire connection sequence

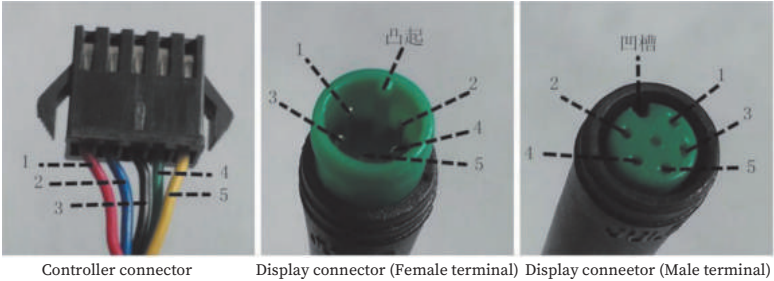


Figure 9-1 Wire Connection Diagram

Table 9-1 Standard connector wire sequence table

Standard Wire Sequence	Standard wire color	Function
1	Red (VCC)	Display power wire
2	Blue (Kp)	Controller power wire
3	Black (GND)	Display ground wire
4	Green (RX)	Display data reception wire
5	Yellow (TX)	Display data transmit wire

Some models are equipped with waterproof connectors and the color inside wires can not be seen.

10. Precautions

Pay attention to all the general operating when using the products and do not plug and unplug the display while it is powered on.

- Avoid bumping the display as much as possible.
- Please do not change the parameter settings at will, otherwise normal riding cannot be guaranteed.
- If display does not work properly, please send it to the repair center as soon as possible.
- There may be differences between the physical products and this manual due to normal upgrade.
Please refer to the physical products.

Battery

- How far a fully charged battery can go? That depends on the loading weight, road condition and battery capacity. But in the same condition, average speeds can continuous longer travel range.
- When storing the battery for a longer time, (during winter time) it is important to place the fully charged battery in a dry place.
- Attention:The battery should be re-charged once every 2-3 month when it is not used.

WARNING:

- Keep the battery out of reach for children.
- Never try to open the battery.
- Only use the HillMiles supplied battery.Do not use a battery from any other different product models.
- If the battery is damaged because it has been dropped somewhere or biking accident, there may be a risk of electrolytes leakage. Beware of chemical burns! And immediately stop using the damaged battery.
- Do not touch the battery without a cloth or gloves and make sure no acid touches your eyes.
- Do not store the battery in temperatures above 95°F or below 23°F.

- Do not allow the battery to run down completely before charging. Charge the battery before storing the product.

If the battery is completely empty, it may cause the battery to no longer charge.

- Charge a new battery for at least 4-6 hours before you use it in your product for the first time. Never charge the battery too long per time. Overheating or undercharging the battery may shorten battery life and decrease product run time.

IMPORTANT: BATTERY DISPOSAL

- Battery must be recycled or disposed of in an environmentally sound manner.
- Do not dispose of the battery in a fire. The battery may explode or leak.
- Do not dispose of a battery in your regular household trash.

- You can charge the bike directly, or you can remove the battery for charging.
- The RED light indicates it is in charging and GREEN light indicates the battery is fully charged. (Please put off plug from wall) Usually the charging time is 4-6 hours depends on the battery capacity remain.

WARNING:

- Charging time over 10 hours is prohibited, please keep it away from high temperature environment and store it in a cool place.
- Please make sure that the battery charger and charging plug are always kept dry and never get wet.
- The charger should only be cleaned with a dry cloth. Never use a wet cloth, oil or any other liquid.
- Do not connect positive and negative terminals.
- Stop the charging procedure immediately if you notice anything unusual.
- It is strictly forbidden to cut the battery charging and discharging lines.
- It is strictly forbidden to disassemble the battery box or modify the internal structure and protection board of the lithium battery.
- After using the battery, please charge it within 12 hours.

