

EN

AZ20



OPERATION AND MAINTENANCE

ELECTRIC BICYCLE

USER MANUAL

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Precautions

- Please carefully check whether all parts are in good condition before. If there is any problem, please contact the dealer in time.
- Abide by the city traffic laws and regulations when using.
- Slow down when encountering rain, snow and passing through slippery roads, increase braking distance when braking, and avoid traveling as much as possible to ensure safety.
- Do not disassemble parts without authorization. If you need to replace them, please purchase standard parts from distributors.
- Wading is prohibited during riding or when riding in rainy days. When accumulated water floods the lowest position of motor hub, it will cause line failure.
- Do not contact the metal point of the battery, otherwise it will produce a large short-circuit current and cause an accident and fire, please pay attention!
- Wear a helmet when riding an electric bicycle, and carry articles according to the law.
- Do not park electric bicycles in the foyer, stairs, walkways and safety exits of buildings.
- Due to the continuous improvement of products in technology, there may be different things between the physical objects and the instructions. Please take the physical ob

Special Tips:

Do not park electric bicycles in the foyer, stairs, walkways and safety exits of buildings. Electric bicycles should not be charged and parked in residential buildings. When charging, they should stay away from combustibles and flammable materials and avoid charging for a long time. Waste batteries cannot be disassembled without authorization.



Riding precautions

- Accelerate slowly when starting, and help with pedals when climbing, which can prolong the service life of batteries and motors.
- The bicycle controller is equipped with overload protection function, which will automatically cut off the power supply when overload occurs, and when it returns to normal, the power supply of the electric bicycle will be automatically turned on.
- The maximum load capacity of this bicycle is 120kg (including the weight of riders). Do not overload driving. When driving on complex roads, try to ride and turn on the shock absorption function.

Parking precautions

- When implementing, the power switch should be turned off to prevent accidents caused by sudden start of the bicycle due to unintentional rotation of the speed regulating handle. When parking, turn off the power supply, lock the battery and remove the key.
- For the sake of your driving safety and keeping your bike in the best condition, please maintain it regularly.

Battery storage

- Please store the battery at the ambient temperature of 20 ~ 25°C, and do not store the battery in an environment higher than 50°C, otherwise it will lead to irreversible capacity attenuation of the battery.
- If the bicycle is not used for a long time (such as winter, summer or other special circumstances), the battery must be taken out and stored separately, maintained and charged regularly, otherwise the battery may run out and cause irreversible damage.
- The most suitable storage capacity of the battery is 50%, and long-term storage of less than 10% or more than 90% will lead to irreversible capacity attenuation of the battery.

Bicycle installation

Since 95% of the bicycles have been installed, the rest can be installed directly after receiving.



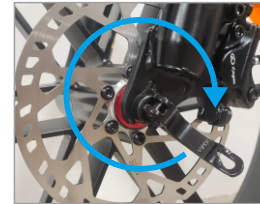
1. Install the U-shaped handlebar



2. Install the front fork on the front wheel bearing



3. As shown in the figure, insert the quick release shaft into the tire shaft and install the other nut and spring properly



4. Rotate the quick release handle and lock it tightly



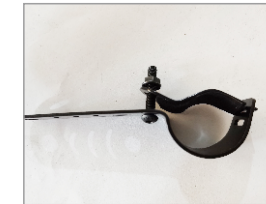
5. Install the mudguard as shown in the figure



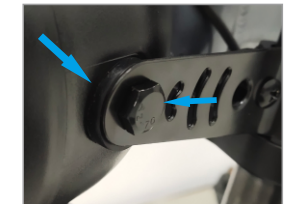
6. Install the fender bracket screws



7. Install lights



8. as the picture shows



9. As shown, the gasket is installed



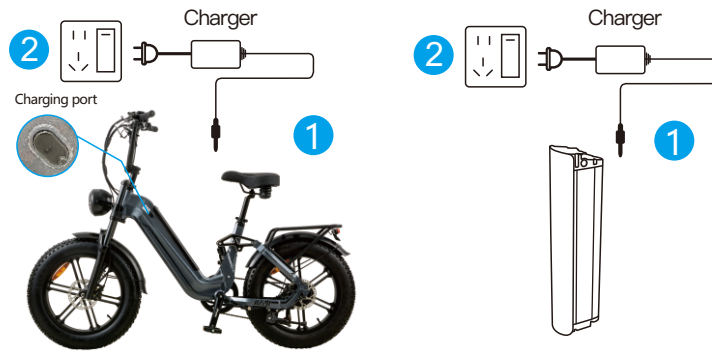
10. Connect the light cable (note that the direction of the arrow needs to correspond)



11. Take out the pedal with the letters "R" and "L", align it with the crank hole and lock it with a wrench

Electric bike charging

First connect the charger to the electric bike battery, then connect the other end to the power source.



- Electric bicycles are equipped with special batteries, which must be charged by the special charger provided by our company. Before charging, the electric bicycle must turn off the power supply. When charging, the output end of the charger is linked to the electric bicycle, and then the other end of the charger is linked to the power supply for charging. The red indicator of the charger lights up, indicating that charging is underway.

Battery disassembly and assembly



Open the battery lock

Press the switch to eject the battery

Remove the battery

Precautions for battery use

- It takes about 6–7 hours to charge the battery. When the indicator turns green, it indicates that it is fully charged. Turn off the power connected to the charger first, remove the charger, and try to avoid charging for a long time (avoid more than 8 hours)
- When charging, the charger and battery should not be covered with anything to avoid danger caused by overheating. It is recommended to start charging when the battery charge is less than 20%. When parking for a long time, it should be stored at 50% of the power, and must be charged once every other month.

- If you smell peculiar smell during charging, please stop charging immediately and send it to the maintenance office for maintenance.
- When charging, do not touch the battery or charger, and children are strictly forbidden to touch the charger.
- Keep the charger or battery away from flammable materials. Do not charge near babies and children. Do not charge in an unattended state for a long time. For the safety of you and your family, it is recommended not to charge in the early morning.
- Please do not use other brands of charger charging, charger is high-voltage circuit, do not disassemble without authorization.

Pattern description



The key is opened, the instrument is opened, and the switch is twisted. The electric bicycle is driven by electricity.



The key is turned on, and the instrument is turned on. At this time, the electric auxiliary mode will be started, which is driven by manpower and electric power.



Riding an electric bicycle, the electric bicycle is driven by manpower.

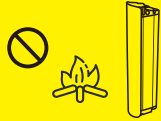
- In pedal assist mode, assist is triggered when the pedal is pressed forward, and is stopped when the pedal is stopped. When you brake, the power assist system will automatically stop, allowing the e-bike to slow down and stop. When the e-bike reaches the maximum speed of the gear you have selected, the power assist will turn itself off.

Motor description

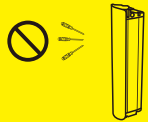
When the electric bicycle starts, the input current of the drive motor is large, and the motor will have a certain noise to overcome the resistance to reach the speed. It is the friction sound of the current torque and the magnetic force, which is a normal phenomenon. If the starting current of the electric bicycle is increased, all noises will be more obvious. This is a normal phenomenon and will not affect the use of the electric bicycle. (Note: When the electric bicycle starts, it can be accelerated slowly when accelerating. At this time, the starting current will not be too large, and the noise of the driving wheel will be relatively small. At the same time, it will be beneficial to the battery life).

Warning

Do not put the battery into the fire. Do not overheat the battery.



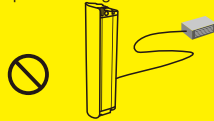
Do not connect positive and negative electrodes or touch terminals with metal objects.



Do not cover the charger with objects or place objects on the charger to avoid overheating and fire.



Do not use other brand chargers to charge the battery. Use the specified charger.



Do not subject the charger to shocks, such as dropping. Keep the charger away from water.



Please do not turn the pedal when the battery is installed on the bicycle for charging. Avoid winding the power cord on the pedal or crank, which may cause plug damage, electric shock or fire.



Do not disassemble or modify the battery.



Do not let your skin touch the charger for a long time during charging.



May cause skin burns because the temperature of the charger may become 40°C~60°C (104°F~140°F) during external charging.

Energy consumption description

- * The battery should be fully charged before long-distance travel. Rugged road conditions and hilly terrain will consume more energy.
- * Carrying more weight on an electric bicycle will consume more energy.
- * When an electric bicycle runs at low temperature, its cruising range will be reduced.
- * When the battery is turned off, your electric bike will be used as an ordinary bike.

After-Sales Service

Warranty name	Service term	Warranty coverage (except human factors)
Battery	12 months	The inspected capacity is less than 2/3 of the specified capacity or the inspected quality problem
Motor	12 months	Performance failure
Controller	12 months	
Instrument	12 months	
Charger	180 days	
Frame	12 months	Desoldering, material fracture
Front fork	180 days	Performance failure

Not Covered By Warranty

- The warranty period has expired.
- Commercial rental is not warranted.
- Vulnerable parts are not covered by the warranty
- Damage caused by unauthorized modification, disassembly and replacement of accessories.
- No warranty for parts damage caused by improper use or crash, injury, water inflow or overload use by users.
- Due to the change of the factory batch or upgraded parts of electric bicycles, there is no prior notice.

EN

YL81F

Electric Bike Display USER'S MANUAL

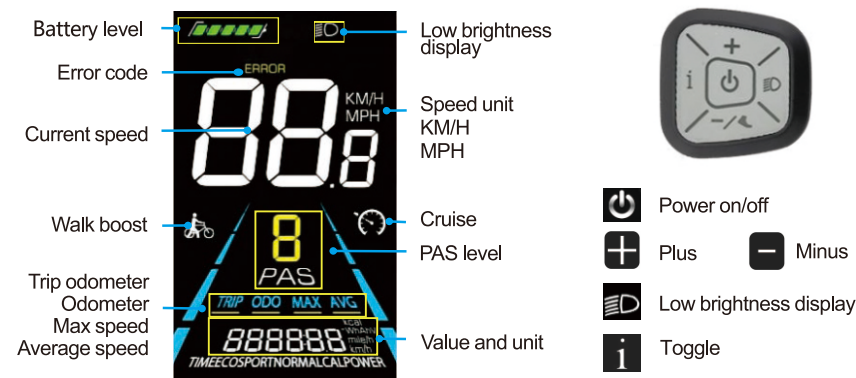
1 Function overview and Functional areas

1.1 Functional overview

The YL81F display offers a variety of features to suit your riding needs, including:

- Battery level indicator
- Pedal assist (PAS) level indicator
- Speed (current speed, maximum speed, average speed)
- Mileage display (single and total mileage)
- Walk boost mode
- Light ON/OFF
- Error code indicator
- Motor power indicator (optional)
- USB connection indicator (optional)
- Cruise control indicator (optional)
- Bluetooth connection indicator (optional)
- Personalized parameter settings (e.g. wheel diameter, speed limit, battery power setting and PAS parameter setting, password setting, controller current limit setting, etc.).
- Factory default parameter recovery function

1.2 Functional areas



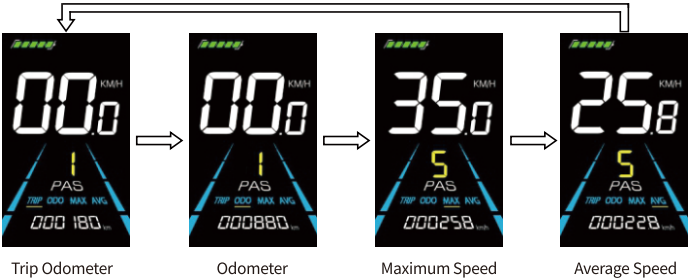
1.3 Power on/off

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.

1.4 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 **I** to switch between Trip Odometer(km), Odometer (km), Maximum Speed (km/h), and Average Speed (km/h).



1.5 Walk boost mode

Long Press and hold **+**, the electric bicycle enters the walk boost mode. The electric bicycle will walk at a fixed speed of 6 km per hour and the display shows . Release **+** 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.



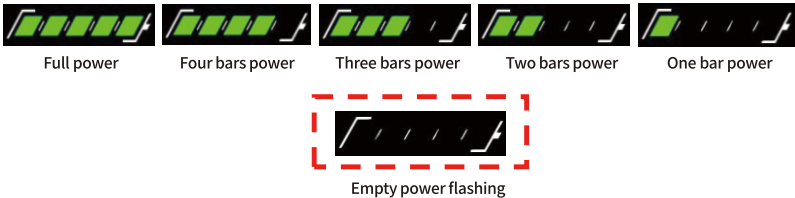
1.6 PAS level selection

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



1.7 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 will begin to flash, warning the user to charge the battery as soon as possible.



1.8 Error code display

If there is a fault occurs in the electronic system of the electric bicycle, the display will automatically show an error code, see Schedule 1 for a detailed definition of the error code.

 When the error code appears on the display, please troubleshoot the problem in time, the electric bicycle will not be able to drive normally after the problem occurs.



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Schedule 1: Error Code Definition

YL-01, YL-02 Error codes.			
Error code	Definition	Error code	Definition
E001	Controller failure	E004	Throttle failure
E002	Communication failure	E005	Brake failure
E003	Hall failure	E006	Motor phase failure

Schedule 2: Error Code Definition

Customize YL-02 (LKLS) Error codes:		
Error code	Definition	Handling method
Error05	Brake failure	Check whether the brakes are in position; Replace the brake handle.
Error06	Low-battery	Check whether the battery needs recharging
Error07	Motor phase failure	Check whether the hall wire of the motor is loose
Error08	Throttle failure	Whether to return the handle; Check the connection of the handle, if normal, need to replace the handle
Error09	Controller failure	Check the cable harness connection of the controller or replace the controller with a new controller
Error10	Communication reception failure	Check that the display cable is properly connected
Error11	Communication transmission failure	

2 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 **i** to enter the parameter changing state.
- 3 Press **+**/**-** to select the parameter, long press **+** for addition operation, long press **-** for subtraction operation.
- 4 Press **i** to save the parameter settings and return to the personalized parameter setting interface.
- 5 Long Press **i** to save the parameter settings and exit the personalized parameter setting interface. The following options are available on the personalized parameter setting Interface:

3. Shortcut operation

3.1 Restore factory settings operation

dEF is the restore factory default parameter settings. dEF-Y is to restore default settings, and dEF-N is not to restore. Enter into the main setting interface and keep the speed at 0, press and hold **+**/**-** and **+** simultaneously for 2s to enter the restore factory default setting interface. Pressing **+**/**-** to toggle to dEF-Y. Then after pressing to **i** confirm, the display will show dEF-0 for a few seconds and then automatically start to restore the factory default settings. The display will automatically exit to setting interface after the restoration.



3.2 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.

Enter into the main setting interface and keep the speed at 0, press and hold **-** and **i** simultaneously for 2s to reset the trip odometer. The main interface will flash during the reset process.

