

LOOKROAD[®]

E-BIKE USER MANUAL



ATTENTION

Please read this manual carefully before using the Lookroad electric bicycle. If you do not understand this manual, or if you do not solve the issues covered in this manual, please contact the seller.

WELCOME TO LOOKROAD

THANK YOU FOR CHOOSING LOOKROAD E-BIKES

Welcome to your Lookroad E-bike you are entering a new world of ease, luxury, and mobility. Whether you're looking for an environmentally friendly alternative to your regular gas-powered vehicle, a fun way to avoid traffic congestion, or simply want to spend more time outdoors, we hope you enjoy your new E-bike. In a life full of headwinds and tailwinds, it is our honor to be wind at your back.

If you have any questions or comments please don't hesitate to contact us:

Email: **lookroadvip@126.com**

Thank you for your attention and purchase!

BIKE IDENTIFICATION NUMBER / SERIAL NUMBER

FOR YOUR RECORDS

For future reference , please fill in the important information below . Your serial number can be found on the inward-facing surface of the frame seat stay or on head top tube.

Please retain your sales receipt for any possible warranty or loss claims.

MY LOOKROAD SERIAL NUMBER :



FOR YOUR RECORDS

MY LOOKROAD E-BIKE

Name

Address

Purchase
Date

Purchase
Channel



**LOOKROAD
WEBSITE**

Model

Color

Serial #

LOOKROAD E-BIKES

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01 ABOUT THIS MANUAL

This manual was written to help you get the most performance, comfort, enjoyment, and safety when riding your new Lookroad E-bike. The manual describes specific care and maintenance procedures that help protect your warranty and ensure years of trouble-free use. Please pay particular attention to the section on battery charging and maintenance.

It is important for you to understand your new Lookroad

E-bike, its features, and its operation, so you get maximum enjoyment with maximum safety. By reading this manual before you go out on your first ride, you'll know how to get the most from your new Lookroad E-Bike.

It is also important that your first ride on a new Lookroad E-Bike is taken in a controlled environment, away from cars, obstacles, and other cyclists.

02 IMPORTANT SAFETY INFORMATION

Cycling can be a hazardous activity even under the best of circumstances . Proper maintenance of your Lookroad E-bike is your responsibility,as it helps reduce the risk of injury.This manual contains many warnings about the consequences of failure to maintain or inspect your

Lookroad E-bike Improper use could result in se-rious injury or death.

We recommend you use a trusted professional bike technician to assemble your Lookroad E-Bike.

IMPORTANT SAFETY INFORMATION

A. ALWAYS WEAR A HELMET

Helmets significantly reduce the number and severity of head injuries. Always wear a helmet that complies with your state laws when riding your Lookroad E-bike. Check with your local police department for requirements in your community. Make yourself more visible by wearing bright reflective clothing. Keep your reflectors clean and properly aligned. Use head and tail lights in reduced lighting conditions. Wear sturdy shoes and eye protection. Also check your state laws concerning other protective gear that may be required when riding your Lookroad E-bike.

B. KNOW YOUR LOOKROAD E-BIKE

Your new Lookroad E-bike incorporates many features and functions that you may be unfamiliar with. Read this manual thoroughly to understand how those features enhance your riding pleasure and safety.

C. RIDE WITHIN YOUR LIMITS

Take it slow until you are familiar with the riding conditions, as traction can be greatly reduced and brakes become less effective. Never ride faster than conditions warrant or beyond your riding abilities. Remember that alcohol, drugs, fatigue, and inattention can significantly reduce your ability to make good judgement and ride safely.

D. KEEP YOUR E-BIKE IN SAFE CONDITION

For your safety and enjoyment, and to ensure a long life for your Lookroad E-bike, inspect and maintain your E-bike regularly. Follow the inspection and maintenance guidelines throughout this manual. Check critical safety equipment before each and every ride.

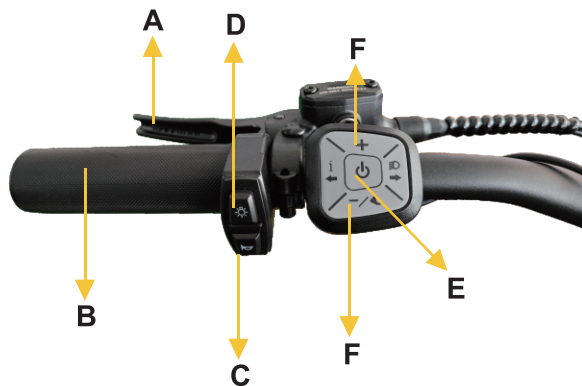
COMPONENT OR CONDITION	INSPECT BEFORE EVERY RIDE	INSPECT PERIODICALLY*	CLEAN AND/OR LUBRICATE	ADJUST/TIGHTEN	REPAIR/REPLACE IF NECESSARY
Tire pressure	X			X	
Tire wear / damage	X			X	
Brake pad adjustment	X			X	
Wheel quick release adjustment	X				X
Head and tail lights	X				X
Controls and displays	X				
Seat post quick release adjustment	X			X	
Brake pad wear		X			X
Brake cable tension / wear		X		X	X
Spoke tension		X		X	
Wheel true		X		X	
Hub bearings		X	X	X	
Chain lubrication		X	X		
Deraillleur adjustment		X	X	X	
Reflectors		X			X
Battery and charger		X			X
Headset adjustment		X	X	X	
Bottom bracket adjustment		X	X	X	
All bolts , nuts mounting hardware		X		X	X

*Every 5 to 10 rides depending on length and conditions of ride.

03 OPERATIONAL INSTRUCTIONS







LEFT HANDLEBAR

A

Front Brake Lever behind the handlebar grip in this photo)The front brake is activated by squeezing the left brake lever. Before you use the ebike, please brake the brake levers to confirm which brake lever control front wheel or rear wheel

B

Left Handlebar Grip

C

Horn Button

D

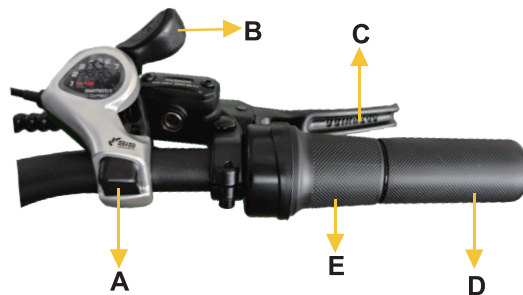
Headlight Button

E

Power Button

F

Speed Control Button



RIGHT HANDLEBAR

A

Rear Derailleur Shifter — by pressing the button while pedaling, you can increase gears from 1 to 7. The shifter is labeled with the corresponding gear selection.

B

Rear Derailleur Shifter — by pressing the lever while pedaling, you can decrease gears from 7 to 1. The shifter is labeled with the corresponding gear selection.

C

Brake lever

D

Right Handlebar Grip

E

Power Switch

Remote control key

A

Defense key

B

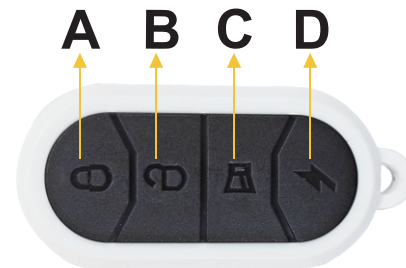
Release key

C

"Find Car button"

D

Start key

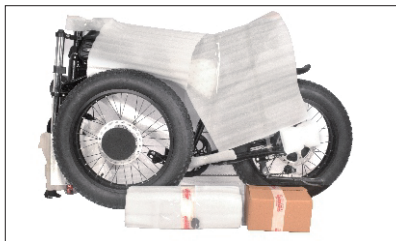


Function key	Vehicle status	Operation	Function Description
Defense key	After unlocking	Press	The horn sounds once and then enters the alert state three seconds later.
			During the alarm process, the alarm was paused but remained on alert.
	After the vehicle starts	Press	The horn kept sounding without stopping. Even when the vehicle came to a stop, the horn continued to sound without stopping. (Except for pressing the release key.Pressing other keys is invalid."
Release key	Vehicle alert status	Press	The horn sounds twice to lift the alert.
	After the vehicle starts	Press	The horn blared twice and the vehicle stalled
"Find Car button"	After unlocking	Press	The horn will sound five times to inform the owner of the location of the motorcycle. Then, press the "Find Vehicle" button to stop it.
	After the vehicle starts	Press	The horn will sound eight times, and then press the car-finding button to stop it.
Start key	Vehicle alert status	Press twice	Vehicle release
	After unlocking	Press twice	Turn on the power lock
	After the vehicle starts	Press twice	Invalid

04 COMPONENT INSTALLATION NOTES



PART 1: REMOVE PACKAGING



01

Unpack your Bopzin electric bike.



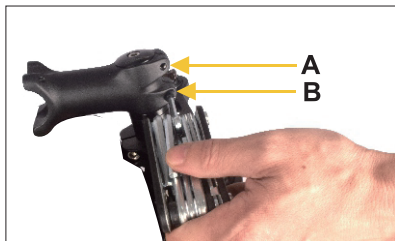
Installation tools



03

Remove front wheel.

PART 2: HANDLEBAR ASSEMBLY



01

Loosen the riser sides A, B screws
Before installation, pay attention to the front
and rear brakes always on the same side



02

Rotate the riser 180°



03

Tighten the side A, B screws



04

Remove front 4 bolts from stem cover them
remove stem cover



05

Mount handlebar onto stem , then replace
stem cover and tighten all 4 bolts



06

Adjust handlebar according to your needs ,
then ensure all bolts are tightened firmly

PART 3: HEADLIGHT & FRONT WHEEL ASSEMBLY



01

Remove the bolt from the headlights , then adjust the headlights and front bezel to the correct position and tighten the bolts



02

Turn the bike upside down
Adjust the height of the seat and rotate the angle of the dashboard to avoid direct contact with the ground



03

Remove the front axle



04

Insert the wheel into the front and middle disc brake disc alignment slot and insert it into the front axle



05

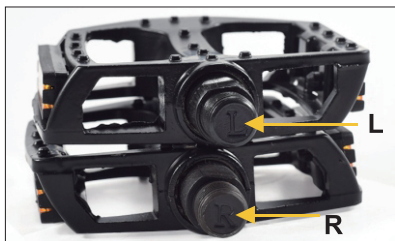
Lock the front axle with a tool



06

As shown in the picture above, the front tire has been installed.

PART 4: PEDAL AND SADDLE MOUNTING & DIRECTION ADJUSTMENT



01

Determine the left and right pedals.
 "L" means the left side is mounted on the crank
 "R" means the right side is mounted on the chainring



02

"L" pedal is fixed counter clockwise to the crank



03

"R" pedal is fixed clockwise and fixed on the chainring



04

Stand in front of the wheel, face the wheel and handlebar at the "T" angle then relock the screw

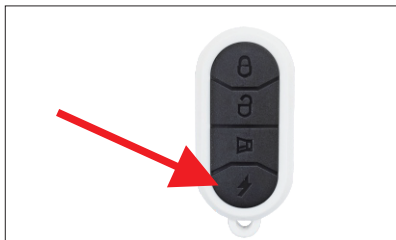
PART 5: REMOVING THE BATTERY AND STARTING THE EBIKE

**01**

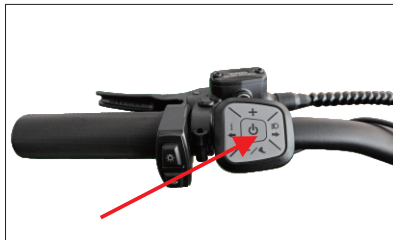
When opening the lock, please note that the lock cylinder has been fully retracted, then pull the key

**02**

Easily remove the battery

**01**

Press twice Start key

**02**

1.click"U"button next to the left handlebar until you hear ticking sound (if you skip this step ,the start process may fail)
2.Turn the throttle to ride.

05 RECHARGING THE BATTERY



A. Recharge the battery on E-bike directly



B Remove battery from the E-bike and recharge separately

RECHARGING THE BATTERY



ATTENTION

Connect the battery first, then connect the power supply and make sure the red LED of the charger is lit. The charger will charge the completed battery within 3 to 7 hours.

A red light indicates that the battery is charging, A green light indicates that the battery is fully charged.

06 BATTERY & CHARGER CARE

For your safety and to ensure optimal battery performance, please read and follow these instructions carefully:

- Charging Location Safety

Never charge the battery in bedrooms, living areas, or any enclosed spaces where people remain for extended periods. Always charge in a well-ventilated, dry area away from flammable materials and direct sunlight.

- Charging Time Guidelines

Do not leave the battery connected to the charger continuously after it is fully charged. Unplug the charger promptly once charging is complete. Avoid charging the battery for more than 12 hours continuously.

- Long-Term Storage

If the battery will not be used for an extended period, charge it fully before storage and recharge it every 2 months to maintain battery health. Store in a cool, dry place.

- General Safety Precautions

- Recharge the battery before it becomes fully discharged.
- Only use the charger provided by Ridstar. Do not use other chargers or power sources.
- Do not use the battery to power other devices.
- Do not disassemble, alter, or expose the battery or charger to fire, liquids, or extreme weather.
- If you notice unusual sounds, odors, or damage, stop use immediately and contact Ridstar Customer Service.

- Important Prohibitions

- Do not place the battery near heat sources or corrosive substances.
- Do not operate the battery or charger if physical damage is present.
- Use the battery only for its intended purpose as part of your Ridstar e-bike system.

Failure to follow these instructions may result in battery damage, reduced lifespan, fire, or explosion.

07 GEARS

Your Lookroad E-Bike is equipped with multiple speeds. The first gear is for easier and uphill pedaling, and the last gear is for maximum speed on level or downhill terrain. Change gears only while pedaling.

The rear wheel contains seven chain sprockets (depending on model). When the chain is around the largest sprocket, you are in 1st gear, or the lowest gear. The high gear will have the derailleur positioned so that the chain is directed around the smallest gear. Every

position on the gear selector should cause a gear change, adjustments require fine tuning and should only be made by qualified technician.

Avoid changing gears very rapidly from first gear to the last gear or vice versa. If you change multiple gears too quickly, you could cause the chain to come off the sprocket.

08 LCD DISPLAY

Power Assist System Modes(PAS)

PAS 0: Manual riding, pedal assist model and throttle do not have power

- 1: Low speed level, 20-24KM/H (13-15 mph)
- 2: Medium speed level, 35-38KM/H (22-24 mph)
- Pure electric model
- 3: High speed level, 29-35KM/H (29-31 mph)
- Pure electric model
- 4: Very high speed level, 46-59KM/H (35-37 mph)
- Pure electric model
- 5: Maximum speed level, 65-69KM/H (41-43 mph)

The speeds listed here are only for reference, Actual speeds will be affected by rider's weight, temperature, road situations, incline, battery status, etc.

KEYS

Your ridstar electric bike comes with one or two keys:

* Ignition key

* The key to the battery holder on the bicycle frame

WARNING

Keep out of reach of children, Always keep your keys in a safe place to avoid losing them.

1. Product Name and Model Number

Smart LCD display for electric bicycle; Model: YL91F-E.

2. Specification

- 60V power supply
- Display rated current 15mA
- Display maximum current 30mA
- Shutdown leakage current <1uA
- Supplied current to the controller 50mA
- Operating temperature -10~60°C
- Storage temperature -30~70°C

3. Appearance and Size



Figure 3-1 Physical picture of the 91F-E display

Yolin

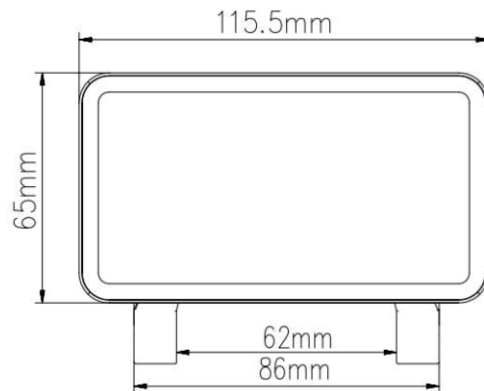


Figure 3-2 Physical picture of the K6 customized button

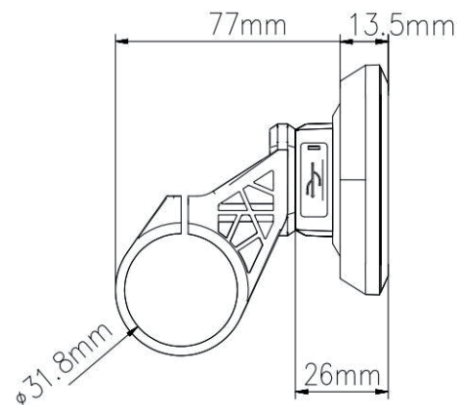


Figure 3-3 91F-E Front View Dimension

Figure 3-4 91F-E Side View Dimension

Yolin

4. Function overview and Functional areas

4.1 Functional overview

The YL91F-E 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)
- Light ON/OFF
- Error code indicator
- Cruise control indicator
- Personalized parameter settings (e.g. wheel diameter, speed limit, etc.)
- Factory default parameter recovery function

4.2 Functional areas

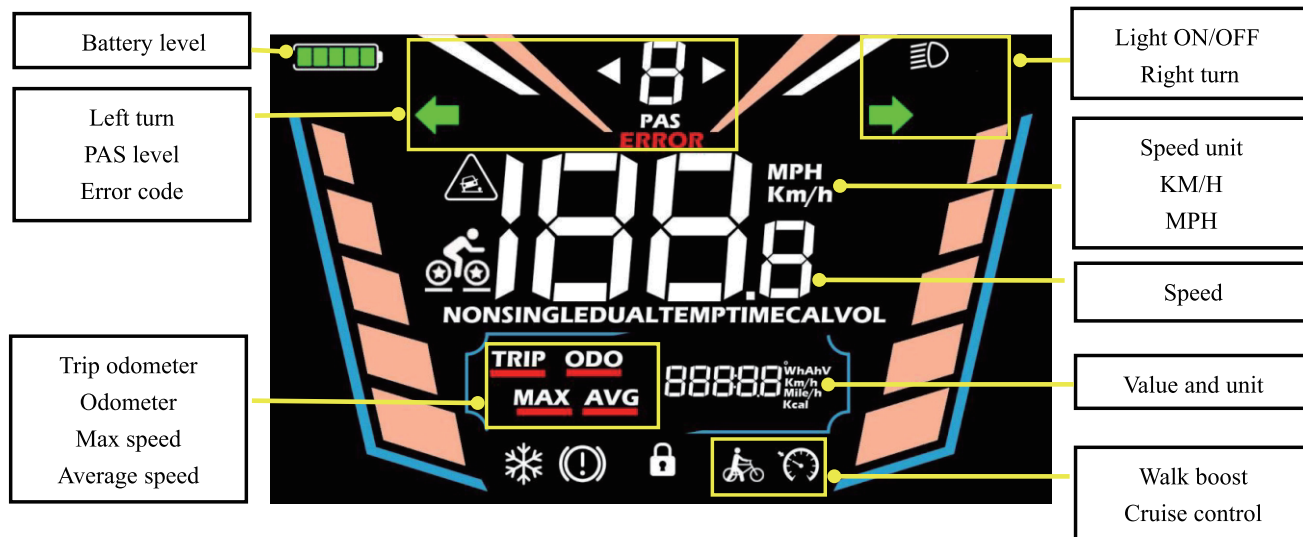


Figure 4-1 YL91F-E functional area distribution interface

4.3 Button definitions

The YL91F-E display is equipped with five buttons on the corresponding operating unit: power on/off , plus , minus , light  (reuse with right turn button ) and toggle  (reuse with left turn button .

5. Routine operation

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 (mile/h) and Trip Odometer (mile) by default. Long press **i** to switched cyclically between Trip Odometer (mile), Odometer (mile), Maximum Speed (mile/h), and Average Speed (mile/h).

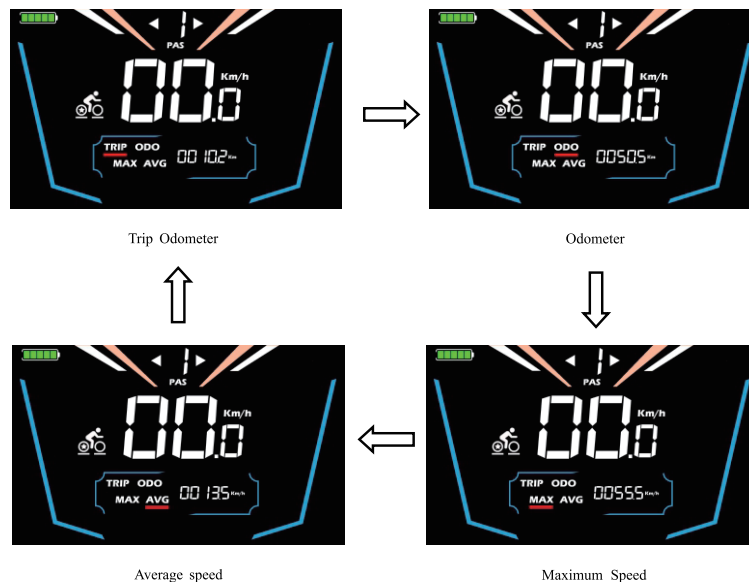


Figure 5-1 Display interface switching

5.3 Walk boost mode

Long press and hold , the electric bicycle enters the walk boost mode. Your e-bike will run at the constant speed at the promoted speed 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.)

5.4 Turning on/off lights

Long press  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 PAS level selection

Press / to switch PAS level of electric bicycle, thus changing the motor output power. (The following pictures are only for illustration of different speeds in different gears. The specific speed is subject to the actual product)



Figure 5-2 Walk boost mode display interface

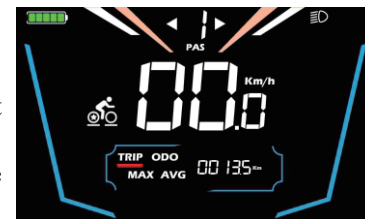


Figure 5-3 Backlight display interface

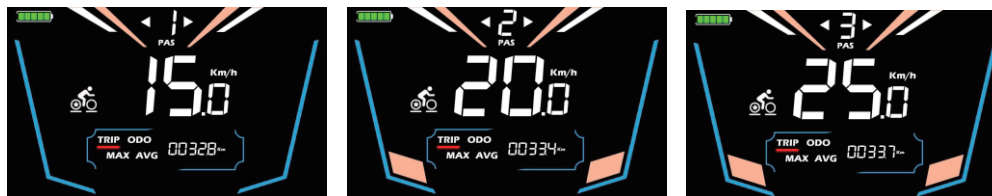
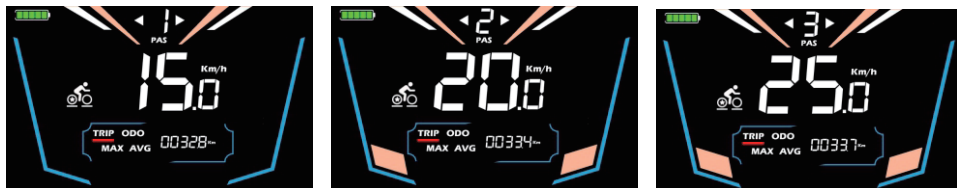


Figure 5-4 PAS level display interface

5.5 PAS level selection

Press **+** / **-** to switch PAS level of electric bicycle, thus changing the motor output power. (The following pictures are only for illustration of different speeds in different gears. The specific speed is subject to the actual product)



5-4 PAS level interface

5.6 Turn left/right on/off

Press **i** to activate left turn, then press **i** again to deactivate left turn; Press **⏏** to activate right turn, then press

⏏ again to deactivate right turn.

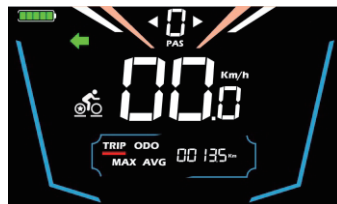


Figure 5-5 Turn on the left turn display interface



Figure 5-6 Turn on the right turn display interface

5.7 Turn on/off dual flashing

Press  to turn on dual flashing, then press  again to turn off dual flashing.



Figure 5-7 Enable dual flash interface

5.8 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.



Full power



Four bars power



Three bars power



Two bars power



One bar power



Empty power flashing

Figure 5-8 Battery level display interface

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 **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:

6.1 Backlight luminance setting

01P is the backlight luminance setting. Parameters 01, 02 and 03 are available, which represent the backlight luminance, 01 for the minimum luminance, 02 for the standard luminance and 03 for the maximum luminance.

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

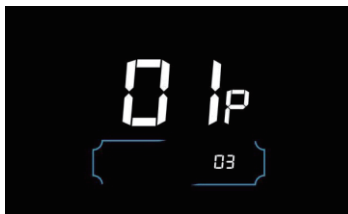


Figure 6-1 Backlight luminance setting interface

6.2 Metric and Imperial setting

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

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



Figure 6-2 Metric and Imperial units setting interface

6.3 Rated voltage setting

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

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

6.4 Auto sleep time setting

04P is the auto sleep time setting. 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 **i** to enter the parameter changing state. Press the **+** / **-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface.

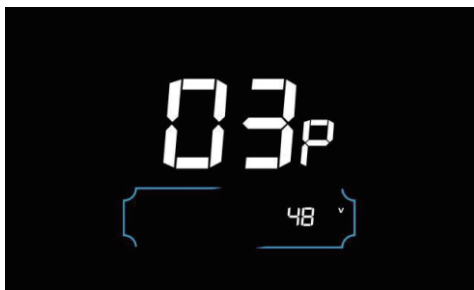


Figure 6-3 Rated voltage setting interface

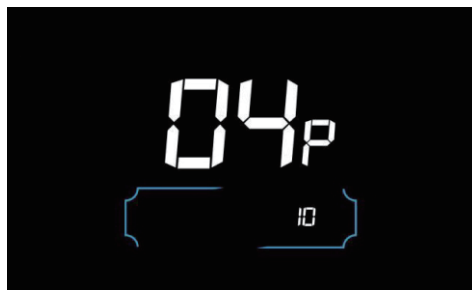


Figure 6-4 Auto sleep time setting interface

6.5 PAS level setting

05P is the PAS level setting. The available PAS level settings are: 0~3, 1~3, 0~5, 1~5, 0~9, 1~9.

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

6.6 Wheel diameter setting

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

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

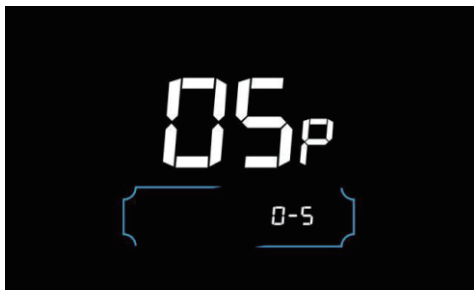


Figure 6-5 PAS level setting interface



Figure 6-6 Wheel diameter setting interface

6.7 Number of speed sensor magnets setting

07P is the number of speed sensor magnets setting. The adjustable speed sensor magnet number range is: 1 ~ 255 pcs.

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

6.8 Speed limit setting

08P is the speed limit setting. The adjustable speed limit range is: 1~62mile/h (1~100km/h). (The maximum adjustable speed limit varies by different protocols).

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

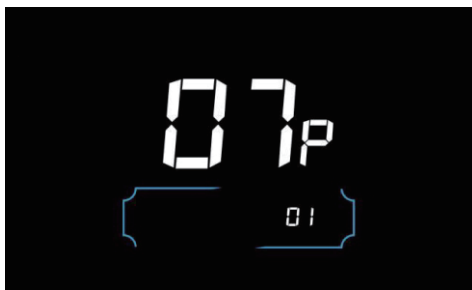


Figure 6-7 Number of speed sensor magnets setting interface

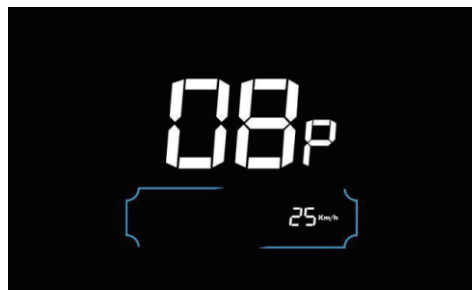


Figure 6-8 Speed limit setting interface

6.9 Start-up setting

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

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

6.10 Drive mode setting

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

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

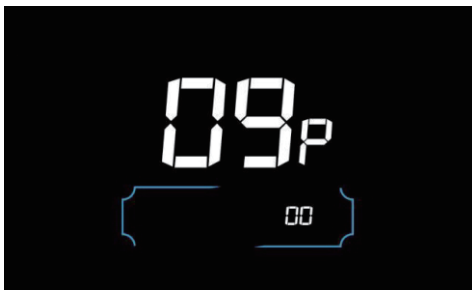


Figure 6-9 Start-up setting interface

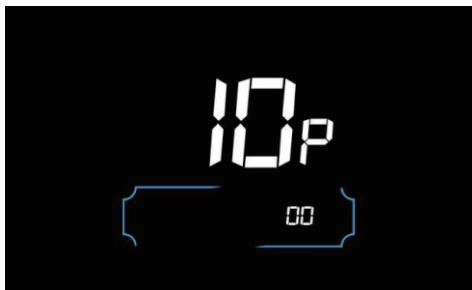


Figure 6-10 Drive mode setting interface

6.11 Pedal assist sensitivity setting

11P is the pedal assist sensitivity setting. When set to higher numbers, 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 **i** to enter the parameter changing state. Press the **+**/**-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface.

6.12 Pedal assist strength setting

12P is the Pedal assist strength setting. 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 **i** to enter the parameter changing state. Press the **+**/**-** to select the parameter and press **i** to save the parameter setting and return to the personalized parameter setting interface.

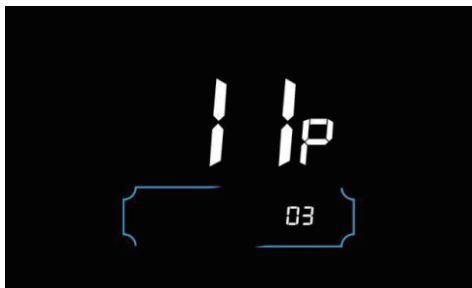


Figure 6-11 Pedal assist sensitivity setting interface

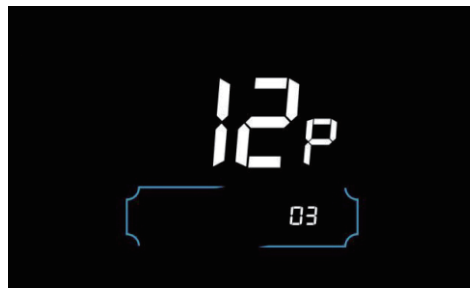


Figure 6-12 Pedal assist strength setting interface

6.1.3 Number of pedal assist sensor magnets setting

13P is the number of pedal assist sensor magnets setting. The adjustable range: 5~12 pcs.

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

6.1.4 Controller current limit setting

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

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

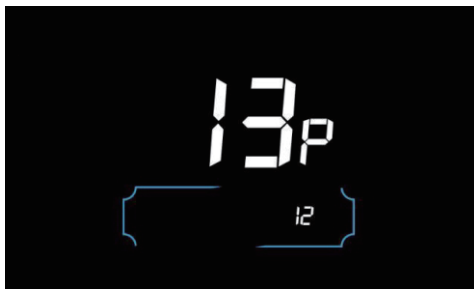


Figure 6-13 Number of pedal assist sensor magnets setting interface

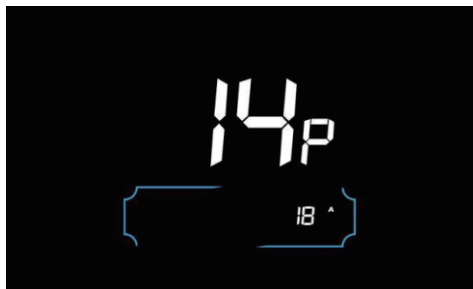


Figure 6-14 Controller current limit setting interface

6.1.5 Battery under voltage value setting

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

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

6.1.6 ODO resets setting

16P is the ODO resets setting. The display can choose the following: 00→non reset, 01→reset.

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

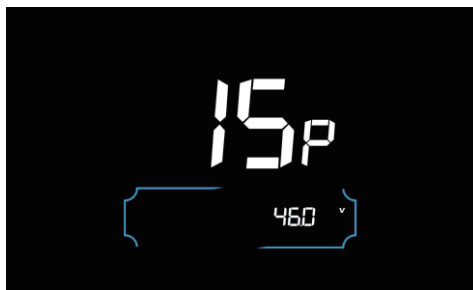


Figure 6-15 Battery under voltage value setting interface

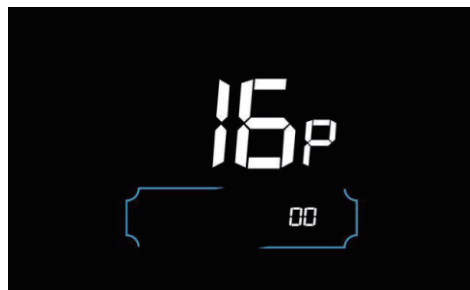


Figure 6-16 ODO resets setting interface

6.1.7 Controller cruise control setting

17P is the controller cruise control setting. The display can choose the following: 00→non enable, 01→enable.

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

6.1.8 6km/h walk boost setting

18P is the 6km/h walk boost setting. The display can choose the following: 00→turn off walk boost function, 01→turn on walk boost function.

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

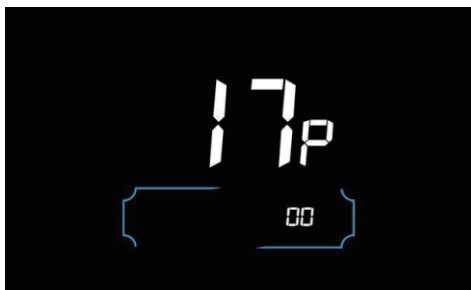


Figure 6-17 Controller cruise control setting interface

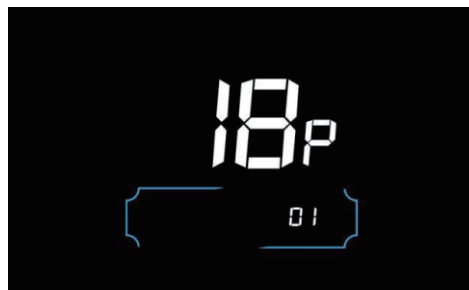


Figure 6-18 6km/h walk boost setting interface

7. Shortcut operation

7.1 Restore factory default parameter settings operation

dEF is the restore factory default parameter settings. dEF-Y is to restore the factory 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 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.

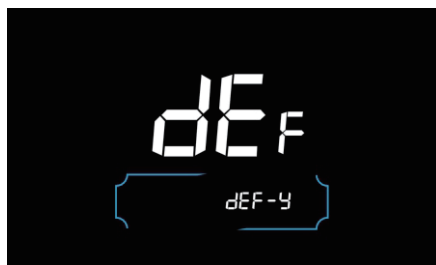


Figure 7-1 Restore factory default parameter setting interface

7.2 Odometer reset operation

The display can record trip odometer and odometer, and the odometer cannot be reset. Trip odometer is not automatically reset after turning off. You need to manually reset it.

The trip odometer reset procedure is as follows:

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

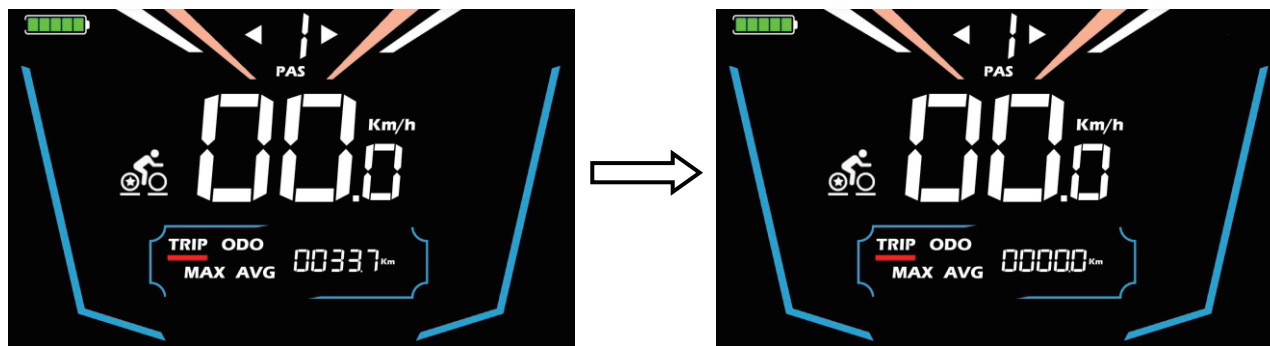


Figure 7-2 Trip odometer reset interface

8. Quality Assurance and Warranty

8.1 Warranty info

● Yolin will offer a limited warranty for any failure caused by the product defects under normal use during the warranty period.

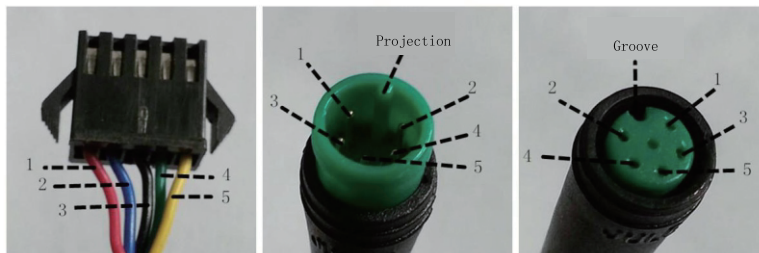
● The product is warranted for 12 months from the date out of factory.

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



Controller connector

Display connector (Female terminal) Display connector (Male terminal)

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.

Schedule 1: Error Code Definition

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	

09 KEYS

*Your electric bike comes with one or two sets of keys

* Ignition key

* The key to the battery holder under the bicycle frame

WARNING

Always keep your keys in a safe place to avoid losing them,
Keep out of reach of children

10 BRAKES

It's important to your safety that you instinctively know which brake lever controls which brake. On your Lookroad E-Bike, the right brake lever controls the rear brake. The left brake lever controls the front brake.

Your Lookroad E-Bike is equipped with disc brakes for maximum reliability. Applying hand pressure to the brake levers will cause the wheel brake to create friction against the brake disc, slowing the wheel. The faster the E-Bike will come to a stop.

The rear brake should always be applied before and while the front brake is applied. Applying only the front brake to slow or stop at high speeds may result in the rider being ejected from the saddle and continuing forward over the handlebars. It is best to apply even pressure to both brake levers when slowing or stopping.

Bicycles equipped with disc brakes will occasionally make a slight scraping noise when the wheels are turning without the brakes being applied. This is normal.

Make sure that the brake lever does not contact the handle bar when full hand pressure is applied (figure 1). If so, then the brakes must be adjusted by increasing the tension on the cable.

A quick adjustment may be made by screwing or unscrewing the threaded barrel adjuster on the brake lever until the brakes are fine-tuned for safe stopping (Figure 2). If the brakes are still not operating correctly, they may require further adjustment by an experienced bicycle mechanic.

WARNING

* Disc brake rotors become hot during use. Do not touch or come in contact with the disc rotor shortly after use.

* Wet weather will require a longer distance to stop brake earlier and avoid sudden stops when riding in wet conditions.



FIGURE 1



FIGURE 2

11 TIRES & INNER TUBES

Tires should not be deflated unless necessary. To minimize tire wear and for maximum riding safety, comfort, and handling, maintain recommended tire air pressure. This can be found on the side wall of all tires. Use a reliable tire air

pressure gauge to check for proper inflation before every ride. At the same time, inspect tires for excessive wear and cracks. Replace tires if necessary.

12 APPEARANCE

Clean your Lookroad E-Bike regularly with a damp cloth. Avoid spraying the Ridstar with a water hose to avoid electrical issues. Store your Lookroad in a dry, sheltered place away from direct sunlight and wet or damp environments.

13

LOOKROAD E-Bikes FAQ

Q. How long does it take to fully charge the battery?

A. It depends on the state of depletion, but around 3-6 hours if completely discharged.

Q. Can I ride up hills and against strong headwinds on my Lookroad electric bike?

A. Yes, One of the main advantages of cycling on a Lookroad electric bicycle is that it flattens hills and increases your average speed when tackling inclines and headwinds. If you provide a reasonable amount of effort, you should be able to tackle anything from a 10% gradient up to a 14% gradient. You will be amazed at the relative ease with which your new Lookroad electric bike can tackle some of the most arduous journeys.

Q. Do I have to pedal an electric bike?

A. No, but it helps to prolong battery life. The motor on our bikes is both throttle and pedal assist controlled, allowing you to decide how much power you desire. Have you ever tried to cycle when speeding downhill on your normal bicycle? It's just like that. The motor is propelling you faster than you're cycling, so there is pretty much no resistance. It's merely a formality!



Q. What happens when I use the brakes under powered assistance?

A. All of our bikes are equipped with brake levers that have a built-in safety switch that automatically cuts off the motor power under normal braking conditions. This not only ensures a safe unpowered stopping feature, but also protects the motor under braking conditions so that it isn't working against the brakes.

Q. How far will Lookroad take me?

A. This all depends on a few factors. Cycling with pedal assist along a straight road under normal conditions, the standard battery should last about 40-60 km. Cycling up steep hills will obviously take more energy out of the battery and factors such as road surface, wind resistance, weight of the rider and tire pressure will affect your range.

Q. What happens if I get a flat tire?

A. The tires on our bikes are the same as conventional bicycles. Simply replace the tube with a tube of the right size and inflate it. No special tires or parts will be needed.

Q. How do I know when the battery is low?

A. The E-bike have easily visible indicators located on the right handlebar or LCD screen that show the amount of juice left. If it is getting low and you don't think you will make it to your destination, you can switch off your motor and keep it just for the difficult bits.

Q. Do I have to wait for the battery to empty before I charge it?

A. No. The batteries we use are Lithium-ion batteries which do not suffer from 'memory effect'. This means that there is no need to discharge a battery completely before you recharge it again. You can partially recharge the battery at any time without reducing its voltage or lifespan. We recommend recharging the battery after every use, regardless of how far you rode.



14

INSPECTION & MAINTENANCE



Hand brake cut-off power

When your bike is equipped with brake cut off power set, the bike will automatically cut off power when the brake is used.

Low voltage protection

When the battery output voltage reaches its limit, the electronic control system will cut off the power to automatically protect the battery. When the battery reaches its minimum voltage, you can switch to pedal riding. The battery should be recharged before riding again.

Power off

When your E- Bike is not in use, please turn off the power.

Charge indicator

Red indicates charging, green indicates that the battery is full.

Note: The battery switch must be turned off using the switch on the bottom when the battery is charging. The battery must be fully charged before the first use. We recommend you charge the battery for a full 6 hours after your first uses. If the bike is not used for a long time, you should fully charge and remove the battery. While not in use, keep the battery turned off and recharge every 2 months.

Make sure to keep the battery and charger away from children during charging.

Do not attempt to disassemble or modify the battery or charger.

Do not use the battery or charger for any use other than its intended purpose.

Battery charging

Plug in the connector between the charger and the battery, then plug the charger into an electrical outlet. The LCD indicator on the charger will show red, which means charging. When the indicator light turns green, the battery is fully charged. When you are finished charging, first unplug the charger from the power supply, and then unplug the connector between the battery and the charger.

During the charging process, the charger and battery should be placed in a stable and cool place. The battery operating temperature range should be between 32 and 110 degrees Fahrenheit. Do not put any cover on the battery or charger. Make sure that no liquid comes into contact with the charger.

Mileage

Performance of electric bicycles is affected by road conditions, rider/load weight, and weather conditions. We recommend that you manually pedal as often as possible to improve your travel distance and battery life

Inclines

When riding uphill on an incline of 15 degrees or more, we recommend using the pedal to assist your climb.

Cleaning

When cleaning your electric bicycle, wipe with a dry or damp cloth, do spray directly with a hose. Do not put oil on the front brake.

The seat tube should be cleaned and lubricated if necessary.

Parking

Please make sure your Lookroad E-Bike is parked in a stable place and the kickstand is used.

BASIC MAINTENANCE

1. To ensure that your E-Bike is in the best condition, maintain and clean regularly.

2. Regularly check that the tires are inflated correctly.

3. Make sure that quick release, nuts and bolts are tightened.

4. After a period of riding, check that the spoke tension is normal. Adjust as needed.

5. The frame and other parts are made of aluminum alloy. Avoid friction or collision and clean it regularly.

6. Do not take apart the motor, battery, or controller yourself. If necessary, take your E-Bike to a professional bicycle technician for repairs.

7. Do not use high-pressure water to clean your E-Bike. Keep water away from the controller, battery and motor.

8. Lubricate the chain, flywheel, head parts, kickstand, etc. when necessary.

15

WARRANTY CERTIFICATE

Important

warranties against manufacturer defects for all of our regular electric bikes and parts except accessories.

The warranty period begins on the delivery date within twelve (12) months.

Please note this warranty only covers the initial purchaser and DOES NOT cover accessories.

Validity

The warranty is valid only when:

- a) The Product is purchased from Lookroad authorized dealers or outlets.
- b) The Product is NOT transferable to any third party either in ownership or during the period of contract.
- c) The model and serial label should not be defaced or removed from the Product.

Exclusion

- a) Damage or loss caused by modification, alteration, or repair by any unauthorized party.
- b) Damage or loss caused by mishandling by the customer or person(s) with access to the product on the customer's premises.
- c) Normal wear and tear.
- d) Damage or loss caused by Acts of God or any other causes beyond Lookroad control.

e) Damage or loss as a result of external bodies.

f) Damage or loss caused by another device that is connected to the Product.

g) Damage resulting from accidents, misuse, abuse, tampering, or failure of the customer to follow normal operating procedures outlined in the user manual.

h) General maintenance and servicing.

Lookroad E-Bike Warranty

In the rare case that your E-Bike arrives and does not work, In order to honor the warranty the following must be followed:

- If your E-Bike is received with a defect, Lookroad will take care of the shipping fees (at Lookroad instruction) and immediately ship replacement equipment or repair the equipment.
- If your E-Bike is in need of return, the owner must contact Lookroad. will receive a Return Authorization (RA) Number and all of the necessary information. Lookroad will not accept returns without an RA.
- All returns must be properly packaged to prevent damage during shipment. An explanation of the problem or damage and a proof of purchase must be submitted with the return which will be shipped by the owner.
- The RA number must be clearly visible.
- The owner will be responsible for insurance of the merchandise (at owner's cost) because Lookroad will not be responsible for damages or losses during shipment.

The warranty is void if: The damages are a result of an accident, abuse, alteration, non-authorized usage, or use of electricity other than that indicated in this manual.

The warranty is void if: The owner or user neglected to do routine maintenance required and the damages or problems are directly related to such neglect. It is the user's responsibility to keep the E-Bike in proper condition.

Certain parts of the equipment are not covered by the lankeleisi warranty due to the fact that they require replacement after multiple uses. For example: buttons, pedals, seats, tires, etc. These parts will eventually require replacement at the owner's cost.

The manufacturers will not be held responsible for damages or monetary losses related to the purchase or use of their products. Lookroad denies responsibility for all physical and moral damages linked to the purchase and use of their products. In all cases, the damages can not exceed the purchase price paid by the initial owner.

The final decision to honor the warranty is taken by Lookroad personnel after a technical inspection when the owner returns defective products.

The warranty excludes:

1. Replacement and shipping costs of products worn out by normal use.
2. Replacement and shipping costs of products due to problems related to neglect, abuse, or lack of maintenance.

Warranties are NON-TRANSFERABLE.

Product Data

E-Bike Model: _____

Serial Number: _____

Purchase Date: _____

Order Number: _____