



WESTHILL

Electric Bike User Manual

RANGER / CLASSICST



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westhillbikes.com

WARRANTY

Westhill bikes are covered by a limited 3-year warranty. Aside from general cycle maintenance, any work to the motor should be carried out by a Westhill technician or authorised dealer.

1. Warranty periods

The statutory warranty valid at the time of delivery applies to:

Frame: 3 years

Motor: 2 years

Battery, Charger & Controller: 2 years

2. Warranty conditions

2.1 Requirements

There is a defect in materials or workmanship or an error of information.

The cause of the change in the product is neither natural nor related to its functions, wear and tear or ageing.

The damage was not caused by use of the bike for other than the intended purpose.

2.2 Warranty exclusions

Damage caused by improper use or force majeure.

All parts subject to function-related wear and tear, unless this is the result of a defect in the manufacturing process or material.

Damage which results from improper or insufficient care and repairs, alterations or the replacement of parts by persons other than trained professionals.

Accidental damage or other external effects, provided these are not the result of defective products or information.

Repairs resulting from the use of second-hand parts or damage caused by this use.

Damage resulting from competitive use.

Special fittings, accessories or non-standard components, especially technical modifications.

Observing the required service intervals is also a condition of any warranty claims you may make.

2.3 The following are considered wear parts under the statutory warranty:

Tyres

Rims in combination with rim brakes

Spokes

Brake pads

Chains and toothed belts

Chain wheels, sprockets, bottom brackets and jockey wheels

Sliding bearings

Lamps for lighting system

Handlebar tape/handle grips

Hydraulic oils and lubricants

Gear-shift cables and brake cables

Paint finishes

Batteries (depletion of capacity to 60% is acceptable within first two years)

(1) Definitions

In this warranty the following terms shall have the following meanings: Westhill Bikes shall mean FW3 Ltd; Westhill Product shall mean the FW3 Ltd; Product Warranty Period shall mean a period commencing on the original date of purchase as new

(2) Circumstances outside our control

FW3 Ltd shall not be liable for any failure in service as a result of FW3 Ltd, or FW3 Ltd agents employees or contractors being delayed, prevented or hindered in the performance of its obligations by reason of any circumstances beyond its reasonable control. Such circumstances include, but are not limited to fire, flood, Act of God, and civil disorder.

(3) Disclaimers

FW3 Ltd shall not be liable for any indirect, incidental, special or consequential damages losses or expenses (including without limitation lost profits, loss of use or loss of data, goodwill, reputation or lost business) arising directly or indirectly, from the purchase use or sale of the Product, whether or not FW3 Ltd was advised or aware of the possibility of such damages, losses or expenses. It is the customer's responsibility to make lawful use of the products FW3 Ltd supplies.

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THIS MANUAL SHOULD BE CONSIDERED A PERMANENT PART OF THE ELECTRIC BICYCLE AND SHOULD REMAIN IF IT IS RESOLD.

INCLUDED IN THE BOX



- | | | | |
|----|---------------------|-----|-----------------|
| 1. | Front Fork | 10. | Rear Derailleur |
| 2. | Handlebar | 11. | Display |
| 3. | Handlebar Stem | 12. | Pedals |
| 4. | Charging Port | 13. | Battery |
| 5. | Frame | 14. | Front Wheel |
| 6. | Seat Post | 15. | Front Brake |
| 7. | Saddle | 16. | Rear Wheel |
| 8. | Seat Clamping Lever | 17. | Rear Brake |
| 9. | Seat Tube | 18. | Motor |

SPECIFICATIONS

MODEL	VENTURE	RANGER	CLASSIC ST	LINK
Bike				
Wheel Size	27.5"	700c	26"	20"
Frame Size	18" / 46 cm	19" / 48 cm	16.5" / 42 cm	13" / 33 cm
Max Rider Weight	120kg	120kg	120kg	120kg
Max Speed	25km/h 15.5mph	25km/h 15.5mph	25km/h 15.5mph	25km/h 15.5mph
Range Per Charge	up to 60 miles*	up to 60 miles*	up to 60 miles*	up to 50 miles*
Weight	24kg**	24kg**	24kg**	21kg**
Tyres	Kenda K1047 (54-584) 27.5x2.1" Puncture Resistant TPI 60	Kenda K935 700x40C Puncture Resistant TPI 60	Kenda K935 26x40C Puncture Resistant TPI 60	K-1129 20x1.75" Puncture Resistant TPI 60
Gears	Shimano Alivio 27 Speed (3x9)	Shimano Acera Megarange 7 Speed 14-34T	Shimano Acera Megarange 7 Speed 14-34T	Shimano Acera Megarange 7 Speed 14-34T
Brakes	Tektro Hydraulic Disc Brakes	Tektro Hydraulic Disc Brakes	Tektro Hydraulic Disc Brakes	Tektro Mechanical Disc Brakes
Display	KT-LCD7 with USB Port	KT-LCD7 with USB Port	KT-LCD7 with USB Port	KT-LCD7 with USB Port
Battery				
Capacity	400WH (10.4Ah) 500WH available (14Ah)	400WH (10.4Ah) 500WH available (14Ah)	400WH (10.4Ah) 500WH available (14Ah)	300 WH (7.8Ah) 400WH available (10.2Ah)
Type	LG Lithium-ion	LG Lithium-ion	LG Lithium-ion	LG Lithium-ion
Rated Voltage	36V	36V	36V	36V
Motor				
Make	Bafang	Bafang	Bafang	Bafang
Type	Brushless	Brushless	Brushless	Brushless
Rated Power	250W	250W	250W	250W
Rated RPM	325 - 245 RPM	325 - 245 RPM	325 - 245 RPM	325 - 245 RPM
Rated Voltage	36V	36V	36V	36V
Rated Output Torque	65nm	65nm	65nm	65nm
Controller				
Controller	Sine Wave	Sine Wave	Sine Wave	Sine Wave
Under Voltage Value	31.5V	31.5V	31.5V	31.5V
Over Current Value	15A	15A	15A	15A
Charger				
Current	2 Amps	2 Amps	2 Amps	2 Amps
Input	41.9V	41.9V	41.9V	41.9V
Type	Smart Charger	Smart Charger	Smart Charger	Smart Charger
Charge Time	4-6h	4-6h	4-6h	4-6h

* The range will be different for every user and will be affected by a number of factors listed below.

* Factors that effect this: battery size, rider weight, weather conditions, terrain, temperature, gradiance, tyre pressure, total load, battery age, battery misuse (please see battery care and maintenance information:

<https://westhillbikes.com/battery-care-maintenance>).

** The weight includes the battery and has been rounded to the nearest whole number.

ASSEMBLY

The bike comes partially assembled. In order to fully assemble, you will need to attach the handlebars and stem, the front wheel, brake calipers, attach the pedals and insert the seat post. Please refer to the diagrams on pages 6-10 whilst assembling your bike. If you are having difficulty assembling the bike, please call our customer service team or take your bike to a local bike shop.

Please Note: pictures may vary from the actual product but assembly will still be the same.

ATTACHING THE STEM AND HANDLEBAR

1. Place the stem onto the steerer tube, push down until it is flush against the spacer and fork clamp. Remove the clamp and push the stem flat against the spacer.



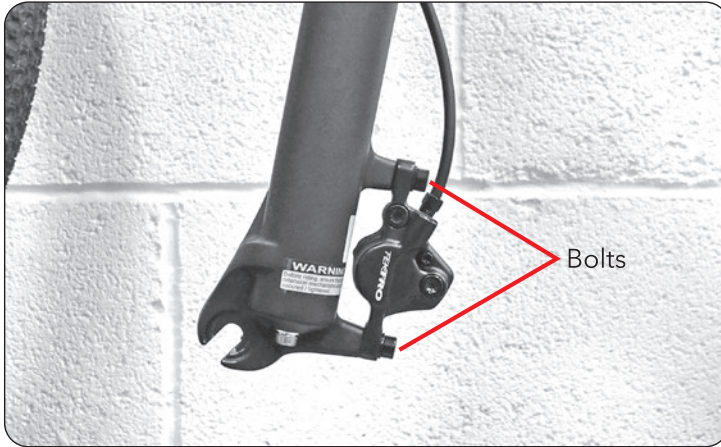
2. Once the stem is in the correct position, tighten the bolt going down through the stem with an allen key ①. Once the bolt is correctly tightened, check if the stem and handlebars are straight with the front wheel. Then tighten bolts ②.

Please be careful not to overtighten the bolts.



FRONT DISC BRAKE CALIPER

- Please check that the bolts are tightened correctly on the brake calliper shown below. **Please be careful not to overtighten the bolts.**



ATTACHING THE FRONT WHEEL

- Loosen the pin through the middle of the wheel to allow you to place the fork onto it. Make sure the disc is properly inserted into the brake caliper.



- Tighten the nut and hold the lever in an upright position as shown in the photo below. Once tight push the lever in to secure the wheel.



TO CHECK

- Make sure the quick release clamping lever is secure.
- Make sure the brake is hooked onto the disc and working properly.
- Check your tyre pressure – if they need pumping up, attach a bike pump to the valve (shown in the photo below) and inflate to the recommended tyre pressure (this will be located on the tyre).



ASSEMBLING PEDALS

- There are 2 pedals. Please look inside of each pedal to identify which is labeled R (right) and L (left).



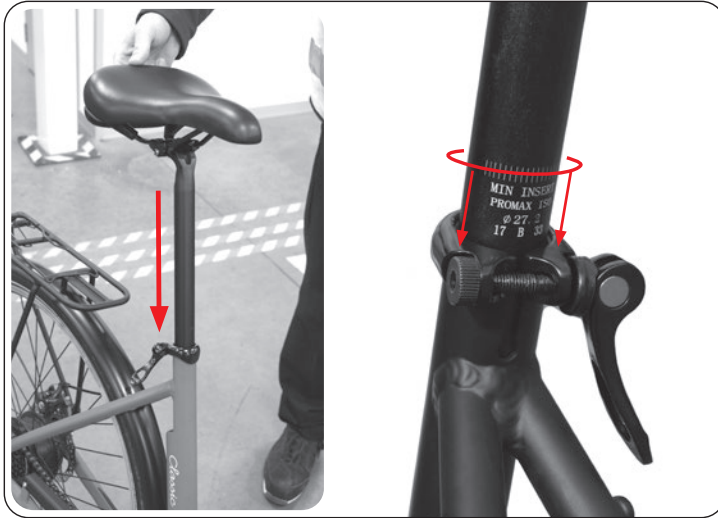
- To connect the pedals to the bike, place L pedal into the left crank arm and R pedal into the right crank arm (left and right directions are as though you are sitting on the bike). Tighten by turning the pedals toward the front wheel. Use a spanner to make sure the pedals are tight and secure.



- The right pedal is attached on the same side as the chain. Make sure you check the pedals are tight and secure before riding.

ATTACHING THE SEAT

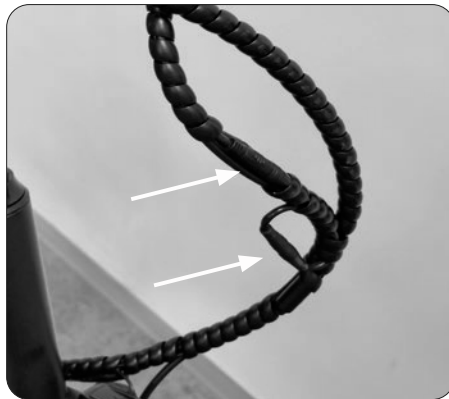
- Slide the saddle post into the seat tube.
- Align the seat with the frame to make sure it is straight.
- The height of the seat should not be pulled higher than the safety line marks on the seat post.
- Tighten the seat clamping lever.



SAFE RIDING

Before each ride, check whether all the bolts are tight, the battery has sufficient charge, the charging port is covered, the tyre pressure is sufficient, all wires are plugged in and the brake system works correctly.

Do not ride the bike through deep water.



CHARGING THE BATTERY

Your bike comes with a removable rechargeable lithium-ion battery. Always use the provided charger only. Before your first ride you must fully charge the battery. The charging port is located on the side of the battery shown in the photo on p.12.

For every ride after, charge your battery until it is fully charged and remove once completed. Do not leave any chargers plugged in overnight or leave it plugged in past the charge time.

1. Plug one end of the power cord into a grounded AC outlet and the other into the bike's charging port. The red charging light on the charger unit will turn on.
2. The red light will turn green once fully charged. Recharge the battery after each use.

(Please note: Always plug the charger into the wall first before the device. If the wall outlet doesn't have power and you plug the charger into the device first, it will light green, even if the battery is not full. So always plug into the wall first to make sure there is power.)

CHARGING PORT



CHARGING LIGHT RED: Battery is charging.

CHARGING LIGHT GREEN: Charging is complete.

Do not turn on the bike while it is charging.

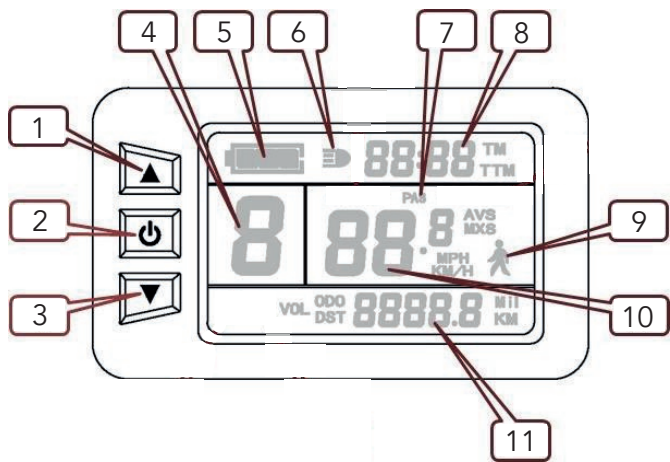
When you are done charging the battery, remember to cover the charging port.

In the unlikely event the battery emits strange odors, overheats, or begins leaking, step away from the battery and contact Westhill Bikes for further assistance.

KT-LCD7 E-BIKE DISPLAY USER MANUAL

Dear customer, thank you for choosing your new Westhill Electric Bike. Please read this manual before using the KT-LCD7 display. The manual will guide you to use the display correctly and enjoy your e-bike to the fullest.



FUNCTIONS AND DISPLAY



1		UP button	10	KM/H	Riding speed (metric)
2		POWER / ENTER button		MPH	Riding speed (imperial)
3		DOWN button		MXS	MAX speed
4	ASSIST	Pas level		AVS	Average speed
5		Battery capacity indicator	11	KM	Distance (metric)
6		Backlight and headlights		MIL	Distance (imperial)
7	PAS	Power-assisted function		DST	Trip distance
8	TM	Single trip meter		ODO	Total distance
	TTM	Total trip meter		VOL	Battery voltage
9		4MPH walk assist			

FUNCTIONS AND DISPLAY

1. ON/OFF

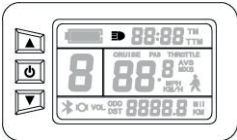
Hold  button to turn the power ON, and hold  button for a second time to turn the power OFF. When the motor stops driving and when the E-bike is not used for 5 consecutive minutes, it will automatically shut down and turn off the motor power supply.



2. DISPLAY 1



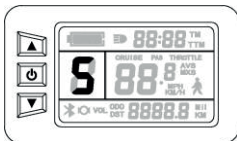
When turning the Bike on, Display 1 will appear automatically.



3. TURNING ON BACKLIGHT AND HEADLIGHT



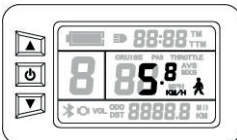
Press & hold  button to turn on the screen backlight and headlight. Press & hold  button again to turn off the backlight and headlight.



4. PAS (PEDAL ASSISTANCE) CONTROLLER



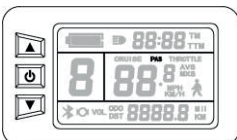
Press  or  button to switch between 0-5 levels of assistance. Level 0 is riding the bike without any motor assistance. Level 1 is for the minimum power, level 5 is for the highest power. Each startup will automatically restore level to the last level you used.

5. WALK ASSIST (4MPH)



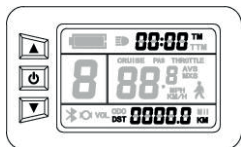
Press & hold  button and  flashes. Your bike will now move forward at 4mph. This is to assist your walking. Release the button to stop the function.

6. PAS DISPLAY



When power-assisted riding, PAS display will appear on your display screen.

7. DISPLAY AND DELETE OF SINGLE DATA



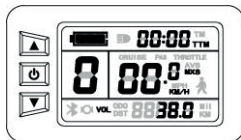
After power has been on for 5 seconds, press & hold ▲ and ▼ buttons at the same time, single trip riding time (TM) and single trip distance (DST) will flash. Press ⏻ button shortly to reset this back to 0. Press & Hold ⏻ to return to main menu.

8. DISPLAY 2



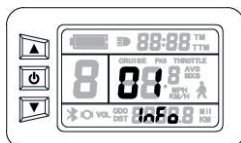
Press the ⏻ button in display 1 to enter display 2. This will show you average speed.

9. DISPLAY 3



Press the ⏻ button again to enter display 3. This will show your max speed achieved.

10. ERROR CODE DISPLAY



Error Code Definition

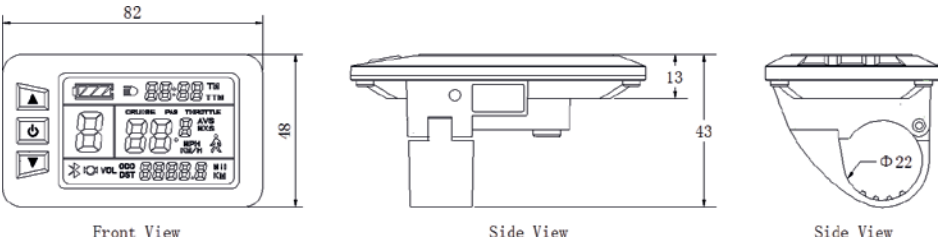
- | | |
|----------|--|
| 01__info | Throttle Abnormality |
| 03__info | Motor hall signal Abnormality |
| 04__info | Torque sensor signal Abnormality |
| 05__info | Axis speed sensor Abnormality
(only applied to torque sensor) |
| 06__info | Motor or controller has short circuit Abnormality |

Control system failure will display (flashing) fault code. Once the fault was removed, it automatically disappear from the fault code display interface.

If an error code is displayed, please contact your dealer or Westhill Electric Bikes.

OUTLINE DRAWINGS AND DIMENSIONS

1. Dimensions of main instrument body



CARE AND MAINTENANCE

BATTERY RANGE

The range of the battery is up to 60 miles per charge. However, a lot of factors affect how far you can go per charge:

- Driving surface: A smooth, flat surface will increase driving distance.
- Weight: More weight means less distance.
- Maintenance: Regular battery charging and maintenance will prolong the life of your battery.
- Speed and riding style: Maintaining a moderate speed will increase distance. Frequent starting and stopping, acceleration and deceleration will reduce it.
- Battery size, tyre pressure, temperature, battery age and weather conditions.

SPEED LIMIT

The top speed of the bike is set to 25km/h (15.5mph) (obey local laws).

WEIGHT LIMIT

The maximum load is 120kg (19 stone). Going above the maximum weight limit can cause injury or damage the bicycle and will void your warranty.

CLEANING THE BIKE

To clean the bike carefully wipe with a damp cloth, then dry with a dry cloth. Do not use excessive water to clean the bike as this could damage the components, resulting in personal injury or malfunction of the bicycle. Lubricate the chain after every wash if you can to keep it smooth and rust free. Suitable products are available via **westhillbikes.com**.

BATTERY

- Keep the bike away from fire and excessive heat.
 - To avoid damage to the battery, never subject the bike to intense physical shock, severe vibration or impact.
 - Protect the battery from water or moisture.
 - You can remove the battery but never disassemble it.
 - If there are any issues with the battery, please contact Customer Support on +44 (0)1823 672 970.
-

STORAGE

- If you plan on storing the bike for a substantial period of time, please make sure you fully charge the battery before storing. The battery should be fully charged once a month after this.
 - Store the battery indoors in a room temperature environment.
 - To protect against dust, cover the bike.
 - Store the bike indoors, in a dry place and at a suitable temperature.
 - You should bring the battery into a warm environment for charging.
 - Do not leave the bike plugged into the charger for long periods of time.
-

TYRE PRESSURE

The recommended tyre pressure is written on the tyres (30-70 PSI depending on which bike you have & how firm you want your ride to be).

SAFETY WARNINGS

Here are some useful tips to make sure you always have a safe ride:

- Children and pregnant women should not use the bike.
- Do not ride after drinking alcohol.
- Consult your doctor if taking prescription medication.
- Do not carry items when riding.

- Prior to each ride, inspect each part of the bike to ensure it has been maintained correctly and is functioning properly.
- Always give way to pedestrians.
- Be aware of your surroundings.
- Always comply with local traffic laws and regulations. Remember, this bike is a motor vehicle, and is treated as such by local law enforcement. You can and will be arrested for drink driving. Many cities have restrictions on where you can drive motor vehicles, as well as additional restrictions on driving non-automobiles on streets and highways.
- Make sure your feet are always placed securely on the pedals.
- The bike cannot be ridden by two or more people. Only one person can ride at a time.
- When you ride the bike along with other cyclists, always keep a safe bike distance to avoid a collision.
- When turning, be sure to maintain your balance.
- Do not allow distractions when riding, such as answering the phone or engaging in any other activities.
- Applying brakes too hard or too suddenly can lock up a wheel, which could cause you to lose control and fall. Sudden or excessive application of the front brake may pitch the rider over the handlebars, which may result in injury or death.

MODIFICATIONS

Do not attempt to disassemble, modify, repair or replace any electrical parts without contacting the Customer Service (+44 (0)1823 672 970). This will void any warranty and can lead to malfunctions which may cause injury.

ADDITIONAL OPERATION CAUTIONS

Do not lift the bike off the ground while it is in operation and the wheels are in motion. This can result in freely spinning wheels, which may cause injury to yourself or others nearby. Do not jump on or off the bike.

NOTES

[illegible]

Westhill Bikes Warranty

Register Now Through Our Website

Simply visit **westhillbikes.com/warranty-registration** and fill in your information.

Register Now Through Facebook



The other way to register your new bike is through Facebook. Simply visit our page **www.fb.com/westhillbikes** or scan the QR code below with your mobile phone and message us with this information:

Your name:

Your email address:

Your postal address:

Bike model & colour:

Purchase date:

Where you purchased from:



Be sure to register right away so your bike is covered!

Don't have Facebook? Email the above details to enquiries@westhillbikes.com to activate your warranty.

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