26"Electric mountain bike



MODEL NO. BIK-28

USER MANUAL

SPECIFICATIONS



1. FRAME

Congratulations on purchasing a QFX Electric Mountain Bike. Your mountain bike is stylish and reliable and can take you anywhere you want to go with a long 20 to 25 mile range per charge.

Use it for your daily commute and still have enough juice for fun leisure rides. A full charge takes

only 4 to 5 hours so you're ready to go in no time. With front and back brakes and an LCD screen

loaded with features, you know you'll be riding safely at all times of the day. Before taking the Electric Mountain Bike for a ride for the first time, please get acclimated to its speed, turning

radius, and other riding characteristics to avoid injury. Check your bike before each ride to

make sure it has been maintained and is operating properly. Please cycle safely, follow your

familiar with assembling a bicycle. For your safety, we recommend having a qualified

technician test and inspect your bicycle after assembly. Operating a bicycle is inherently risky; before you ride, inspect your bicycle each time to ensure that it is in proper operating

T: Take this bicycle to a qualified bicycle technician for assembly if you are not

- Electric mountain bike

- Lithium-ion battery set
- Battery charger
- Pedals

local laws, and take it for a ride!

FEATURES

LCD status screen

Black phone holder

IN THE BOX

Pedal assist or pure electric

21-speed Shimano gear shifter

SPECIFICATIONS

- Range: up to 25 miles per charge
- Braking system: Disc brakes (front and rear)
- Motor: 250 W brushless electric motor
- Charge time: up to 4-5 hours (full charge)
- Battery: Lithium-ion 36 V, 8 AH

SAFETY FEATURES

- Front and rear disc brakes
- Speed limit: 15.5 mph (25 kmh)
- Easy to grip handlebars
- Power-off protection

6. LCD SCREEN

THANK YOU FOR USING OUR E-BIKE

- Weight limit: 330 lbs (150 kgs)

2. SEAT POST

- 3. SADDLE
- 4. VERTICAL HANDLE STEM
- 5. BATTERY
- Brake levers with motor cut-off 7. BRAKE LEVER
 - 8. SUSPENSION FRONT FORK
 - 9. DISC BRAKE

10. CRANK

11. PEDAL

- 12.PHONE HOLDER
- - 13. MOTOR
 - 14. REAR DERAILLEUR
 - 15. RIM AND TIRE
 - 16. REFLECTOR
 - 17. FENDERS
 - 18. REAR RACK
 - 19. HEADLIGHT

■ BEFORE ASSEMBLING YOUR BICYCLE

- Check the markings on the outer box to make sure that it has been placed right side up.
- Carefully remove the frame and all other items listed in this manual (see "In the Box").
- Carefully remove and dispose of all protective packing materials. Take care not to damage the bicycle or any components.

ASSEMBLING THE STEM AND HANDLEBARS



to tighten the bolt shown in properly aligned.) the picture above.





the front fork and the frame, tighten the stem. (Ensure and then use the 5 mm hex handlebar so that it is then use the 5 mm hex key that the fork and stem are key to tighten the four bolts. centered on the stem, then Do not tighten them all the finish tightening the four

INSTALLING THE SADDLE





post and adjust its height. tighten/loosen the bolt. Do closed. IMPORTANT: the saddle must not overtighten; you should be installed so that the max be able to comfortably flip height markings are not visible. the lever closed.



INSTRUCTION

INSTALLATION OF THE FRONT WHEEL



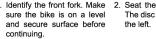
Identify the attachment point 2. Make sure the front fender

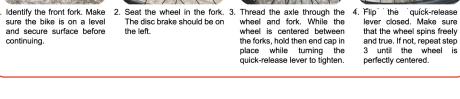
on the front fork. Align it with and headlight are aligned

the headlight bracket and properly with the frame and front fender, then screw a then finish tightening the

bolt through all three. Do not bolt.

tighten the bolt.





INSTALLATION OF THE FENDERS AND HEADLIGHT



wheel is centered between that the wheel spins freely the forks, hold then end cap in and true. If not, repeat step place while turning the 3 until the wheel is quick-release lever to tighten. perfectly centered.



PEDALS (LEFT AND RIGHT)

left (L) and which is right (R). the box.

INSTALLING THE PEDALS



markings to identify which is wrench that is included in the right pedal crank arm; finish tightening and

screw the left into the left securing the pedals to the

INSTRUCTION

■ INCLUDED COMPLIMENTARY TOOLS



INSTRUCTION

ABOUT THE LCD SCREEN



Casing Material: ABS

Display Material: High-impact acrylic (similar hardness value as tempered glass)

2. Functions

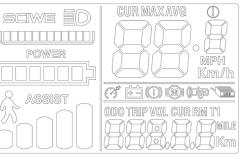
Speed, Battery level, Error indicator, Total mileage, Single-ride mileage

b. Available Controls and Settings

Power switch control: adjustments for Wheel diameter, Idle time (auto-hibernation), Backlight brightness, Start mode, Drive mode, Voltage level, Controller

c. Communications Protocol: UART

Initial Display View (initial display flashes at start for 1 second)



Display Details

INSTRUCTION

2.3 Multi-Functions Display

Total Mileage: ODO Single Time Mileage: TRIP

Error Code: Error

Power: WATT Maintain Needed: Maintain

Power: Strong Power Mode



2.5 Speed Display

Average Speed: AVG

Display unit: MPH or Km/h

Note: the speed is calculated from a hall-effect sensor in the motor based on the diameter of the installed wheels. The signal is then sent to the LCD screen by the controller.

If you change the wheels, you will need to adjust the Wheel Diameter parameters in the Settings menu.

2.6 Error Display













INSTRUCTION

INSTRUCTION

P09: Zero / Non-zero start setting.

0 - Zero Start | 1 - Non-zero Start P00: Factory Setting. Set to 10 and scroll to next item, the controller will be restored to its original factory settings.

P10: Drive Mode Setting

0: Power Drive - The specific gear of the assist drive decides the assist power value. In this status the handlebar speed throttle does not work.

1: Electric Drive - Speed is controlled from the handlebar. In this status the pedal-assist gear does not work.

2: Power Drive + Electric Drive – Electric drive does not work in zero-start status.

P11: Power Assist Sensitivity Range: 1-24

3. Introduction of Kevs

automatically after 10 seconds.)

P12: Assist Power Intensity Range: 0-5

setting without changing to the next one (the screen will stop flashing).

P13: Power Magnet Steel Number: 5 / 8 / 12pcs

P14: Current Limit Value: 12A by default; Range: 1-20A

P15: Unspecified

between the ODO/TRIP/RM/TM/ERROR screens.

Press and hold "M" to turn the controller off.

P16: ODO Zero-Out: Press and hold the "UP" key for 5 seconds and the odometer (ODO) will be reset to zero.

1. Press "M" to turn the controller on when it is off. When it is on, press "M" to change

2. Press "+" to increase the PAS (pedal assist) level. Press "-" to decrease the PAS level.

to save the setting and change to the next one. You may also press and hold "M" to save the

To exit the Settings screen, press and hold "+" and "-". (The controller will also exit the Settings screen

4. The handlebar throttle is used to adjust the rotational speed of the motor. Twist the throttle to accelerate:

Level 1 - 2V | Level 2 - 3V | Level 3: 4V 5-mode output voltage:

P01: Backlight Brightness (1: darkest; 3: brightest)

P03: Voltage Class: 24V/36V(default) / 48V

P02: Mileage Unit (0: KM: 1: MILE)

Strengthened Function

(no communications protocol).

3-mode output voltage:

change accordingly.)

Level 1 - 2V | Level 2 - 2.5V | Level 3: 3V | Level 4 - 3.5V | Level 5 - 4V

(Supported by some controllers.) Set the PWM signal for different PAS (Pedal Assistance Sensor) levels

manually. The first level is equivalent to 3.7 mph (6.0 kmh). Some controllers use PAS analog voltage output

P04: Hibernation Time (set to 0 to disable auto-shutoff; all others set the duration in minutes.)

P05: Power Gear - 0/3 Gear Mode: Gear 1: 2V Gear 2: 3V Gear 3: 4V

Gear 4: 3.5V Gear 5: 4V

1/5 Gear Mode: Gear 1: 2V Gear 2: 2.5V Gear 3: 4V

1. Non-communications status (for panel-controlled bikes without a controller)

±1 kmh. (This only applies to the pedal-assisted speed and does not apply to the handlebar speed throttle.)

When the current speed exceeds the speed limit, the PWM motor output will cut off; when the current speed falls 3. Press and hold "+" and "-" to access the Settings screen. While on the Settings screen: below the speed limit, the PWM motor output will activate and the riding speed will be set as the current speed Press "M" to change between the available settings. After adjusting the value, press "M"

2. Communications status (for bikes equipped with a controller)

The riding speed will be kept constant at the speed-limited value.

Note 1: There is an error range of ±1 kmh that is applicable to both the pedal-assisted speed and the handlebar

release it to decelerate. Note 2: All values described above are metric measurements (kilometers). If the controller is set to imperial units (miles) then the values will be converted for display, but the underlying values are based on metric measurements. (For example, the speed value displayed on the panel may read miles but the speed limit value does not

INSTRUCTION

Connecting the Battery to the Charger



Charging the Battery

To charge the battery:





Keep the battery away from children When the battery is not in use for an extended period of time, remove the battery

Before using the battery for the first time, charge it for 6 to 8 hours until it is full. After this first charge, use the electric bike until the battery is fully drained; then charge the battery again for 8 to 9 hours. This initial cycle will optimize the lifetime performance of the battery.

Use the included charger only to charge the battery. Using unauthorized chargers not designed for this electric bike will void its warranty. Unauthorized chargers may permanently damage the battery as well as unexpected dangers.

- 1. Check that the voltage of your power source matches the rated input voltage of the charger.
- 2. Connect the output plug of the charger with the charging jack of the battery. Connect the plug into an AC power supply.
- 3. Check that the power indicator light and the charge indica tor lights are on. This shows that the battery is charging properly
- When the light turns green, the battery is sufficiently charged.
- 4. After the battery is fully charged, unplug the cable from both the AC power supply and the battery

NOTE: The battery should be kept away from high temperatures, high humidity, and fire. Do not overcharge the battery; overcharging will reduce the operating life of the battery. Disconnect the charger from the battery as soon as possible when the battery is fully charged.

Battery Care and Maintenance

- Keep the battery out of extreme temperatures.
- Operating temperature when charging: 32° 113° F.
- Operating temperature when discharging: -4° 113° F.
- Do not short circuit the discharge/charge terminals of the battery.
- Do not leave the battery charging overnight, or for long periods of time.

INSTRUCTION

- To avoid damage to the battery, do not subject it to intense physical shock,
- severe vibration, or strong impacts.
- Do not expose the battery to water or other moisture. Protect the discharge/charge terminals from rain or water logging.
- and store it safely.
- Do not disassemble the battery.
- If you have any questions about this battery or its usage, contact the Customer Service department.

Regular Maintenance

Every 1 to 2 months, it is recommended that you check the following:

- Check that the handlebar and saddle post are correctly inserted and tightened.
- Check that the wheel hub mounting nuts are correctly tightened.
- Check that the wheel rims are not cracked and that no spokes are loose or broken.
- Check that the tires are not worn or cut.
- Check that the tires are correctly inflated.
- Check that the battery contacts on the frame are not dirty or oxidized.
- Check that the batteries are sufficiently charged.
- Check that the front and rear brakes are working correctly.
- Check that the cables are sufficiently greased, and that the brake pads are in good condition.
- Check that the frame welds are in good condition, and are free of corrosion or oxidation.

INSTRUCTION

Product Storage and Transportation

If the bicycle and battery will not be used for 6 months or longer, it should be stored in an environment where

Temperature: 20 ± 5 °C (68 ± 9 °F) | Humidity: 65 ± 20 % RH

Voltage during storage must be maintained between 48 V ~ 54.6 V.

Standard charge and discharge. Wait for 5 minutes, then charge at 2 A to 54.6 V.

Product Transportation

During transport the battery is approximately in a 50% charged state. The battery should be kept form acute vibrations, crushing, exposure to sun, or soaking.

When charging the battery, it should be in an environment where the temperature is 0~45 °C

Please run the battery through a charge/discharge cycle once every 3 months as follows:

- (32~113 °F) as indicated in the specifications. The battery should be charged at a current below the maximum charge current indicated in the specifications; the charge voltage should be below the maximum charge voltage indicated in the specifications. The Maximum Charging Voltage is 54.6 V; the charger must be designed to meet this requirement. Use only the included charger to avoid damage to the battery. Do not charge the battery for longer than 10 hours. Reverse charging is prohibited.
- (-4~131 °F) as indicated in the specifications. The battery should be discharged at a current below the maximum discharge current indicated in the specifications. Note that due to the self-discharge characteristics of the battery, it will enter a force-discharged state if it is not used for a long time. To prevent over-discharging the battery, it should be charged periodically to maintain its state above 48 V.

When discharging the battery, it should be in an environment where the temperature is -20~55 °C

Others

Prevent internal short circuits.

Disassembly is prohibited

Never incinerate to dispose. The battery may explode

The battery should never be exposed to liquids such as freshwater, seawater, or beverages.

INSTRUCTION

Potential Cause

Frequent breaking and

Charger wiring is loose or

The battery weld line is

damaged or fell off.

The induced cartridge

has poor contact or is

The booster wiring is bad

damaged.

or damaged.

TROUBLESHOOTING

The charger n

onger works wi

the battery

The booster ha

no power ass

Failed speed change, or very low velocity.	Low Battery Voltage.Bad governor handle.Bad controller.	Charge the battery.Replace the governor handle or controller.	Batteries and accumulators must not be disposed of in your household waste container. You are required by law to return used batteries and accumulators. Used batteries may contain harmful substances that can do damage to the environment and to your health when stored or disposed of incorrectly. Batteries also contain important raw materials like iron, zinc, manganese, or nickel which can be recycled.
Motor does not work when the power is turned on.	 Bad governor handle. Bad electric door lock and contact point. Bad controller. 	 Replace the governor handle or controller. Re-weld the contact part. 	
			The label with the crossed-out waste container means that you must not dispose any batteries and accumulators in your household waste. Under this sign, you will find more symbols with the following meanings:
Inadequate mileage from charge.	 Tires have low air pressure. Inadequate charging or charger failing. Damaged or expired battery. 	 Pump the tires to proper pressure. Recharge the battery. 	Hg: Battery contains (mercury) Cd: Battery contains cadmium Pb: Battery contains lead At excess of certain limits they are additionally marked with the chemical symbol of the metals (Hg= battery contains more than 0.0005 percent of mercury, Cd = battery contains more than 0.000

Replace the battery

Weld the connecting

line, or replace it.

Adjust the induced

Reconnect the boos

er or replace it.

cartridge or replace

or charger.

Manufacturer and product information

percent cadmium. Pb = battery contains more than 0.004 percent lead).



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For more information visit: www.qfxusa.com

MADE IN CHINA

Reference requirements §18 section 1 of the battery law

