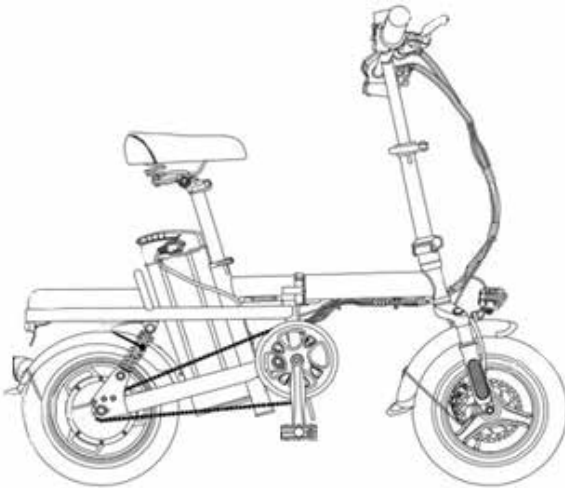


FAVOTO

ELECTRIC BICYCLE GENERAL MANUAL



Operation and maintenance manual

*Before using the e-bike, please read the attached operating instructions.
Carefully read the safety rules.*

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1. Safety Instruction

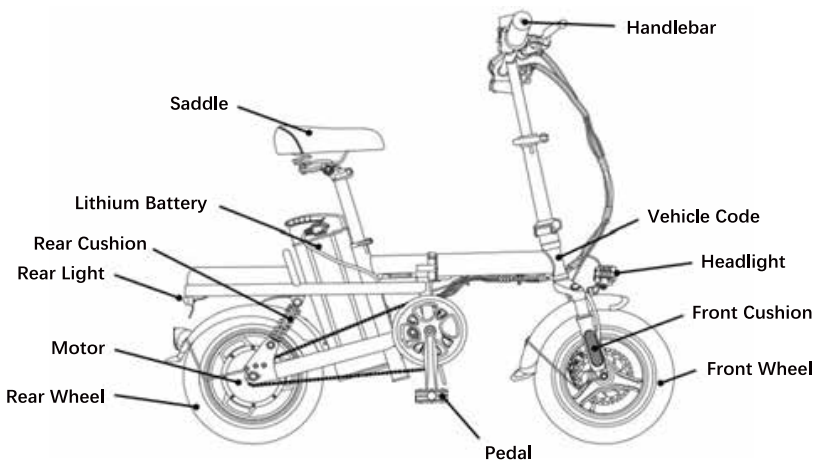
1.1) Importance

When using the electric bicycle, basic safety precautions should always be followed, including the following:

1. Read all instructions.
2. To protect against fire, electric shock and injury to persons, do not immerse cord, plugs, or e-bike in water or other liquid.
3. Close supervision is necessary when the e-bike is used by or near children.
4. Unplug from outlet when not in charging and before cleaning.
5. Do not operate the e-bike with a damaged cord or plug or after the e-bike malfunctions, or has been damaged in any manner. Take the e-bike to the nearest authorized service bike shop for examination, repair or adjustment.
6. The use of accessory attachments not recommended by the e-bike manufacturer may result in fire, electric shock or injury to persons.
7. Do not use in wet conditions when using on a rainy or snowy day.
8. Do not let cord hang over the edge of table or counter, or touch hot surfaces.
9. Do not place on or near a hot gas or electric burner, or a heated oven.
10. Always attach the plug to the battery first, then plug the cord into the wall outlet.
11. Do not use the bike for other than intended use.
12. Save these instructions.

1.2) General presentation of the vehicle

1.2.1) Schematic diagram of the complete electric bicycle



1.2.2) Electric bicycle technical parameter table

Whole vehicle	Model name	FTEB0001
	Overall dimensions wheel diameter (L*W*H) (mm)	1352x530x1048
	Center distance between front and rear wheels (mm)	940
	Vehicle mass (kg)	30.1
	Maximum design speed (mph)	35
	Cruising mileage (mlies)	30
	Power consumption per hundred kilometers (kwh/100km)	2.0
	Load capacity (kg)	75
Battery	Battery Type	Lithium
	Capacity (Ah)	10.4
	Nominal voltage (v)	48
Motor	Motor type	Permanent magnet brushless DC
	Rated continuous output power (W)	400
	Rated output speed (r/min)	470
	Rated voltage (V)	48
Controller	Undervoltage protection value (V)	39±2
	Current limit value (A)	13±2

2. Function Display

2.1) Electrical performance

PROJECT	INDEX
WORKING VOLTAGE (NOMINAL)	48V
AMBIENT TEMPERATURE	- 30°C ~70°C
SPEED INDICATION ACCURACY	Hall velocity (<3%) Phase velocity (<1km/h)
BATTERY INDICATOR ACCURACY	±0.3V

3. The battery

3.1) About our lithium batteries

Lithium batteries have the following advantages:

1. Life expectancy is two times that of lead-acid batteries. The weight is more lighter.
2. No memory effect and rechargeable, the battery life is more longer.
3. Green environmental protection, regardless of production, use and scrap, does not contain or produce any toxic and harmful heavy metal elements and substances.
4. Built-in BMS will prevent battery pack over charge, over discharge, over-current, over-heat, short circuit .
5. The self-discharge rate is very low, which is one of the most outstanding advantages of the battery.

Generally, it can be less than 1%/month, less than 1/20 of the Ni-MH battery.

3.2) Installing and removing the battery

To remove the battery, unfasten the lock which is located along the battery's box. Remove the battery by pulling it out.

To put the battery back into place, insert the battery along to the guide rail. Push it closely against the controller box. Fasten the lock.

3.3) Charging the battery

Never let a battery be charged unattended.

The battery's voltage is indicated by the lights located on the display unit located on the handlebar.

Your battery must be charged in an ambient temperature, on a non-flammable and dry surface, away from any sources of heat, humidity or flammable materials. Also, it must not be covered.

Here are the steps to be followed when charging your battery:

Step 1: Turn the battery off. The LED lights will be off.

Step 2: Plug the charger (which is off) into the socket and then insert the charger's plug into the battery which is also off.

Step 3: the charger's LED indicators lit up in the following manner:

- The red LED lights on: the battery is being charged.
- The red LED light becomes green: the battery is full charged; you can unplug the charger.

It takes 3 - 6 hours for the battery to be fully charged when using the standard charger that's supplied with your bike.

3.4) Battery autonomy and lifespan

3.4.1) Autonomy

The bike's autonomy ranges from 40 to 100 kilometers, as it depends on many different factors (degree of assistance used, topology, rider's weight, frequent stops/start-ups, hills, tire pressure, etc..)

3.4.2) Battery

Your battery is just like a household battery. It contains a limited amount of energy, which diminishes as it is being used. When the available autonomy no longer corresponds with your needs, you need to buy a new one from your dealer.

3.4.3) Maintenance

If you don't use your bike for a period of time exceeding 2 months, store it in a humidity-free area to protect the electronic components and make sure that the battery is neither completely charged nor completely discharged (2 LEDs lit up)

Note:

Never store a completely discharged battery as it might result in permanent damage.

During the winter or long storage periods, it is recommended that you charge the battery halfway every 2 months. Don't forget to switch it off. Store your battery at a temperature between 15°C and 25°C.

3.5) Battery safety instructions

Your bike's battery is an electric component made up of chemical elements. For your safety, it is imperative that you obey the following rules:

- Always handle with great care
- Always keep it away from children
- Do not take it apart or hit, pierce or submerge it
- Keep it away from temperatures exceeding 60°
- Never create a connection between the contacts located at the bottom of the battery
- Never let the battery charge unattended
- Never sleep near a battery that is charging
- Only use the charger that came with your bike or that was supplied by your dealer
- If your battery is damaged, do not use it and take it back to your dealer as soon as possible

4. Safety maintenance and recommendations

4.1) Precautions required prior to each use

Please do the following checks before riding. If there is any abnormality, please repair it in time or find a professional to repair it!

1. Please confirm the power-off switch when the whole vehicle is double-supported and the rear wheel is off the ground.
2. Turn on the power, check whether the indicators on the meter are normal; check whether the power of the power supply is sufficient.
3. Check whether the whistle of the electric bicycle horn is in good condition; operate the lighting switch to check whether the illumination of the front light and tail light is normal.
4. Check whether the rearview mirror and reflector are dirty or damaged, and whether the rear and side conditions can be seen normally.
5. Check whether the saddle and saddle tube are well adjusted, and tighten the fixing screws.
6. Check the front and rear brake levers. The brakes should be debugged so that the brakes are reliable and reset flexibly. The braking distance should be increased in rainy and snowy weather.
7. Check whether the tire pressure is normal, whether there are cracks, abnormal wear, and nails, stones, glass and other sharp objects embedded.
8. Check whether the front and rear screws are tightened and the chain is in good condition.
9. Check the tightness of each axle to ensure that the front and rear axles and handlebars are tightly fastened reliably.
10. For all models with folding function, the quick release device must be locked before riding.

5. Warranty

You are provided with a warranty for one year since the day you buy the bike. Details regarding your bike's warranty coverage terms are available from your dealer.

6. Contact us

If you have any questions, please send an email to our e-mail address support@favoto.com.