

Bicycles4u.com

Owner's Manual

ENDURANCE 500



This manual contains important safety, assembly, operational and maintenance advice.

**THIS MANUAL SHOULD BE READ BEFORE
OPERATING THE BICYCLE**

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User Security

- 1) Do not operate the e-bike before reading this user manual thoroughly. The manufacturer will not be held responsible for any damage or accident due to improper use.
- 2) For your safety and others please follow the traffic regulations. This bicycle is not suitable for children under thirteen and the disabled. This e-bike is not recommended for competition, stunts or off-road riding.
- 3) Do not lubricate the brakes.
- 4) The braking length of a dry state surface/road is 4 meters at 25km/h, while 15 meters in wet state. So, move slowly, keep a safe distance from other vehicles/objects around you and brake in advance where necessary while riding downhill and in rain, snow & wet road.
- 5) To ensure your safety please use helmets, check brakes & tyres, handlebars and rims before riding.
- 6) Maximum rider weight: 115 Kg.
Maximum carrier weight: 15 Kg.
- 7) Improper use could cause harm, please check the connection of the frame, stem and suspension periodically. Every mechanical part has friction and pressure. Different materials and parts have different frictions and pressures. If a mechanical part has exceeded its service life, resultant damage could hurt the user.
- 8) Do not ride in water where the depth exceeds the controller. The motor or directly flush water to electrical components.
- 9) Avoid prolonged exposure to the sun or rain and exposure to humid places. Aggressive gases may cause parts to corrode or electrical parts to fail. This can lead to malfunctioning or accidents.
- 10) This product contains advanced electrical components built in to the structure. Please do not disassemble or modify any part of it.
- 11) The performance and mileage of the unit will be varied depending on the battery condition, temperature, terrain, wind speed, tyre pressure, rider weight and the maintenance, etc. To get the best mileage we propose that:
 - (1). Ride for 3-5m in power mode when starting.
 - (2). Try to reduce frequent braking or restarts.
 - (3). Ride in PAS mode while on uneven road conditions, uphill or headwind.
 - (4). Avoid carrying people or overloading
 - (5). Check the tyres before riding to ensure they have the correct pressure.

Regular check's for safety before riding

- 1) Check if the handlebar stem and saddle post are safely inserted. Take note of the maximum height markings (MIN. INSERTION) on the tube.
- 2) Check the brake shoes for excess wear. If there is wear, you should replace them before riding.
- 3) Check if the nuts on the front and rear axis are securely fixed.
- 4) Check the pedals and other fixtures for any signs of damage. Check if the rotary parts move freely.
- 5) Check the tyre pressure in accordance with the markings and check for ample treads on the tyre. If they are excessively worn replace them immediately.
- 6) Make sure that you know how to operate the e-bike and clearly know all the traffic regulations.
- 7) Check if the brake and the power function are working well.
 - (1). Stand the bike on the kickstand, switch to the electric mode and then slowly turn the throttle. If the motor does not work, then the kickstand can cut the power efficiently.
 - (2). Close the kickstand, switch to the electric mode and then apply the brake. If the motor does not work, then the brake can cut the power efficiently.
- 9) Check if the grip throttle functions well. Check if it goes back into place immediately after releasing it.
- 10) Check all electrical connections and mechanical parts are securely locked, check all cables, connector plugs and sockets must be dry and undamaged.

Battery and charging

Instructions on the bike operation

1) To turn the power ON and OFF use the power button which is on the side of the battery.

2) Press the power button and the control panel will turn on.



LCD display

Press the positive to go up the menu.

Press to turn on LCD Display.



Hold then press to toggle through settings (0-4).

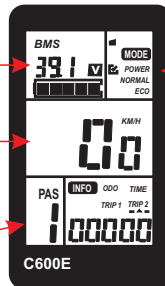
Press the negative to go down the menu.

LCD Display Homepage

Battery Voltage
Remaining Battery Capacity

Travelling speed in KM/H or
MPH (units can be changed)

Pedal Assist Mode (PAS)
If PAS is set to **0** the PAS mode
is disabled = throttle mode only.
1-9 defines level of PAS. Higher
the number the more PAS.



MODE
Power
Normal
Eco

INFO - trip computer

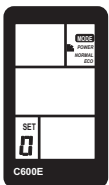
ODO - odometer, total KM or M
travelled since bikes was first used
(non-resettable).

TIME - time on bike.

TRIP 1 - first distance trip setting.

TRIP 2 - second distance trip setting.

LCD Display Settings (0-4)



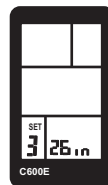
Setting 0 (SET 0).
By pressing the set
button you can
toggle through
Power, Normal
and Eco mode.



Setting 1 (SET 1).
Here you can reset
your trips 1 and 2.



Setting 2 (SET 2).
Here you can set
maximum speed .



Setting 3 (SET 3).
Here you can set
tyre / rim type.
700C or 26/28in.



Setting 4 (SET 4).
Here you can set
the units - MPH or
KM/H.

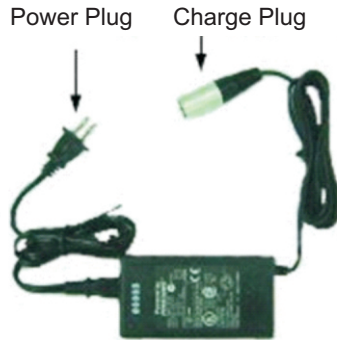
Steps to charge the battery

- 1) Confirm that the local power supply corresponds with the requirement of the charger. The input voltage is between 100V-240V.
- 2) The battery can be charged on the e-bike or removed from the e-bike and charged separately.
- 3) Connect the charger plug and charging port of the battery first and then connect the power plug and the power source.
- 4) When the red light turns on, the charging starts.

Safe charging

Taking care of the battery is vital to ensure your safety and to maximize its long term performance. Battery fault, fire or explosion hazards will occur if the instructions are not followed:

- Ensure that the charger plugs are dry and securely connected to the charger port of the battery case.
- Do not cover the battery or charger while charging. Do not use the battery charger near flammable products or in unventilated places. The ambient temperature should not exceed 40°C.
- Keep the battery away from water to prevent shocks or shorting.
- Only use the charger provided to charge the battery.
- Do not disassemble or modify the battery.
- Do not expose the battery to fire or extreme temperatures.
- Do not allow impact or force against the battery pack.
- Pull out the power plug first and then the charger plug after charging. Connecting the power plug and the power source for a long time while not charging is not recommended.
- If any abnormal conditions occur, like overheating or strange smells, stop charging immediately and contact your authorized dealer for help.
- Keep the charger in a safe place and away from children.
- Regular use - if you are commuting significant distances, it is advisable to recharge the battery before the return journey.
- Occasional use - Recharge the battery at least once a week, even if the e-bike is not used.
- Always recharge the battery after use.



The manufacturer will not be responsible for any damage or injury due to improper or unsafe use of the battery charger

LED Indication

- 1) LED (GREEN) - Power on, when not connected to the batteries.
- 2) LED (RED) - Charging
- 3) LED (GREEN) - Fully charged, when connected to the batteries

How to Ride the Electric Bike

Turn the power ON

Use the power button to turn on the battery. Turn the throttle slowly to drive the bike forward. The remaining battery power is displayed on the panel after turning the power on.

Power cut during braking

To ensure the rider's safety, the motor will stop working when braking and restart after the brake lever is released.

Riding

Test each of the functions before riding to get used to the functions of the e-bike like, controlling the brake, throttle and handlebar.

Turn the throttle slowly, then sit back and enjoy the ride.

Every cyclist should obey the traffic rules.

How to Remove the Battery

1) Unlock the key lock which is on the side of the battery.

2) Remove the battery from the frame.

How to Replace the Battery

1) Unlock the battery and remove it from the frame.

2) Insert the new battery in and lock it in place.

Adjusting the height of the seat

In order to adjust the height of the seat you'll have to unlock the lever that can be seen in the picture below, adjust the saddle height to the desired position without exceeding the mark carved onto the saddle's tube. Lock the lever in place and you're done.



The saddle's height must be set so that you can place your feet at the ground comfortably.

- 1) In order to ensure long term service of your e-bike, please use genuine parts.
- 2) Make sure the waterproof connection is properly connected.



- 3) Do not use the battery if it has outlived its life expectancy.

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Battery gauge LEDs with no display.	Power switch is open	Close the switch on the battery case
	Battery case with no power	Charge the battery
	Circuited	Replace fuse
	Battery case not positioned in the right place	Remove battery case, put it in right place and then lock it
	Switch damaged	Replace switch
Motor fails to perform its intended function when power is on.	Being in power mode	Change the mode from assist to electric
	Connection error	Check the connection parts or have a professional fix it
	Battery case with no power	Charge the battery
Speed-adjust failure	Being in power mode	Change the mode from assist to electric
	Connection error or throttle failure	Have a professional fix or replace it
	Poor tyre pressure	Pump up the tyre to its correct pressure
Poor travelling range after each charging.	Insufficient charge	Fully charge the battery
	Battery aging	Replace with a new battery case
	Poor road conditions, slopes, headwinds and frequent use of the brakes	Change the power mode
	Battery failure	Replace battery
Abnormal long charging time	Battery aging	Replace battery
	Connection error	Check if the cables are correctly plugged in.
Charger fails to perform its intended function.	Circuited	Replace fuse
	Charger failure	Change charger
	For other faults that can't be solved or motor, controller, charger, battery failure, please contact your authorized dealer for help. Any changes to these parts will invalid your warranty.	
Other faults		

We recommend having your e-bike serviced by a professional cycle engineer at least once a year to ensure ongoing safe performance. Since these problems listed may not cover every problem that might occur during the lifetime of your product. You can contact us for more detailed questions you might have.

General Maintenance Remarks

Cleaning and Maintenance

Regular maintenance guarantees you a longer durability and road worthy state of your bike. Maintenance includes cleaning, lubricating and ride setting adjustments. Regular maintenance work is required to sustain a warranty claim. This applies to special corrosion (surface rust) and other damages, which by non-observance, would not be undertaken by us. Thus, please read through the following section thoroughly.

Lubrication

Frequency	Component	Lubricant	How to Lubricate
Weekly	Derailleur Pulleys	Chain Lube or Light Oil	Brush On or Squirt
	Derailleurs	Oil	Oil Can
	Brake Calipers	Oil	3 drops from oil can
	Brake Levers	Oil	2 drops from oil can
Monthly	Shift Levers	Lithium Based Grease	Disassemble
Every Six Months	Freewheel	Oil	2 squirts from oil can
	Brake Cables	Lithium Based Grease	Disassemble
Yearly	Bottom Bracket	Lithium Based Grease	Disassemble
	Pedals	Lithium Based Grease	Disassemble
	Derailleur Cables	Lithium Based Grease	Disassemble
	Wheel Bearings	Lithium Based Grease	Disassemble
	Headset	Lithium Based Grease	Disassemble
	Seat Post	Lithium Based Grease	Disassemble

Chain

The chain must be regularly (especially after riding in the rain) lubricated with a standard chain-caring product. Physical stretching of the chain requires checking procedures to be carried out to ensure that the tension is adequate. Examine the chain tension by positioning the bike on its kickstand and test whether the chain, while being pushed upwards or downwards has a maximum gap of 10-15 mm in between. If this is not the case please proceed to the following steps:

- 1) Loosen the axle nuts on both sides of the wheel and the brake counter - bracket (for the back pedalling brake) on the left side of the rear - end stay. When a gearbox removal is required please see the manufacturer's instruction manual
- 2) Subsequently, adjust the chain's tension by turning the tension screw nuts on both the left and the right sides.
- 3) Before tightening of the axle nuts, check whether the wheel stands in the centre and adjust if needed.
- 4) Tightly screw the axle nuts and the tension screw nuts. (Tightening Torque not less than 30N-M)
- 5) Recheck the chain tension

An over-tightened chain can cause pops during riding.

Adjust the derailleur

Adjust the Fine-tuning nut or screw when the derailleur makes some abnormal sound. The way to adjust the brake of the bike is the same as adjusting the gears. The most important thing is effective braking, releasing of the brake pads and the power brake function work well together. Friction between road and tyre is reduced when raining, so every rider should brake gently in order to avoid danger. Please follow the several bits of advice given, every screw and nut should be tightened properly to make sure the wheel is running freely with no resistance.

Brakes

- Always make sure that the front and rear brakes are working correctly before you ride the bicycle.
- Before riding the bicycle, check that the pad thicknesses are 0.5 mm or more.
- If noise occurs when the brakes are operated, it may indicate that the brake pads have worn down to their usage limit. After checking that the brake system has cooled down sufficiently, check the brake pad thicknesses. Replace the brake pads if the pad wear indicators are visible.
- Be careful not to allow any oil or grease to get onto the rotor and brake pads, otherwise the brakes may not work correctly.
- If any oil or grease do get on the pads, you should replace the pads. If any oil or grease gets on the rotor, you should clean the rotor. If this is not done, the brakes may not work correctly.
- Check the brake cable for rust and fraying, and replace the cable immediately if any such problems are found. If this is not done, the brakes may not work correctly.
- The required braking distance will be longer during wet weather.

Reduce your speed and apply the brakes early and gently. It is important to completely understand the operation of your bicycle's brake system.

Improper use of your bicycle's brake system may result in a loss of control or an accident, which could lead to severe injury. Because each bicycle may handle differently, be sure to learn the proper braking technique (including brake lever pressure and bicycle control characteristics) and operation of your bicycle. This can be done by consulting your professional bicycle dealer and the bicycle's owners manual, and by practicing your riding and braking technique.

Warranty

NAME	FAULT	WARRANTY PERIOD
Frame	Fracture, sealing off, or open solder	one year
Front Fork	Fracture, sealing off, or open solder	one year
Handlebar, Stem and Accessories	Fracture	one year
Spindle and Parts	Heat treatment parts damaged or broken	one year
Seat Post	Fracture	one year
Transmission, Shift Lever and Brake Lever	Fracture, broken	one year
Rim	Cracking	one year
Shaft skin, Flywheel, Gear, and Crank	Fracture	one year
Chains, Mudguard, Hanger and Kickstand	Fracture	one year
Speed control switch to, Controller and Charger	Performance Failure	one year
Brush motor	Performance Failure	one year
Brushless motor	Performance Failure	one year
Battery	failure	one year

When does the warranty not apply?

- When the bicycle is used negligently or has damage resulting from a traffic accident.
- Normal wear and tear.
- Poor maintenance or modifications that no longer complies with regulations or original specifications.
- Damage due to external causes.
- When the bicycle is used for rental.
- Compensatory costs arising from damages or accidents, or cost incurred by loss of the bicycle's usage.
- Bulbs, brake blocks, tyres etc. - Are regarded consumables, therefore when replacements are required, these need to be purchased from your local cycle shop or store.