

# WALLKE

**WALLKE**

[Wallkeebike.com](http://Wallkeebike.com)

Operation  
And  
Maintenance  
Manual

# Electric Bicycle WALLKE X2 PRO

Thank you for purchasing Wallke ebike!

We take pride in bringing you a quality product that will offer years of enjoyment. Please read and understand this manual fully before assembling and riding your bike.

If you have questions after reading this manual, please contact us by email, or give us a call on the phone.

We are here to help!

- 🌐 Wallke Ebike Website: [www.wallkeebike.com](http://www.wallkeebike.com)
- ✉ Website Service Email: [sales@wallkeebike.com](mailto:sales@wallkeebike.com)
- ✉ Amazon Service Email: [info@wallkeebike.com](mailto:info@wallkeebike.com)
- ☎ Phone: 1-323-841-3459

Please attention that Wallke ebike have several sales channels now. Choose the right one to get connected! Email is preferred. Please send your purchase date and order ID so that we can handle your issue faster. Feel free to give us a call when needed.

Thanks for Riding Wallke Ebike!



## 26 inch Folding Fat Tire Electric Bike

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



## 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 waterproof 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.

**\* Please note that this is a general manual. The frame style of the electric bicycle (e-Bike) that you have may differ from the picture shown in this manual.**

## TABLE OF CONTENTS

IMPORTANCE .....	P3
COMPLIANCE WITH THE LAW .....	P5
ASSEMBLING YOUR NEW E-BIKE .....	P6
ASSEMBLY .....	P8
PATENTED TECHNOLOGY .....	P13
OPERATING YOUR NEW E-BIKE .....	P14
SAFETY TIPS .....	P19
BATTERY SAFETY .....	P21
TROUBLESHOOTING .....	P23
WARRANTY .....	P25
SHIPPING DAMAGE CLAIMS .....	P26

### PLEASE NOTE:

This manual is not intended as a detailed user, service, repair or maintenance manual. Please seek assistance from a qualified technician for service, repairs or maintenance.

## COMPLIANCE WITH THE LAW

### Read This First: Safety and Compliance with the Law

Congratulations on your purchasing of your new e-bike. Your new e-bike is an excellent piece of personal transportation equipment that will give you good service for many years.

Before you start using your e-bike, we want you to be aware of a few important points. Please read this section carefully..

- **Observe Laws Regarding the Use of Battery-Operated Bicycles**

Your e-bike is designed and manufactured to meet safety requirements as a battery-operated bicycle. However, state and local laws governing the use of battery-operated bicycles on public roadways, parks, and other open areas may differ. Please check with your local authority before using your e-bike in public areas.

- **Observe Laws Regarding the Use of Bicycles**

Note that all laws regarding the use of bicycles in public areas, such as those mandating the use of helmets and the use of infant seats, will automatically apply for e-bikes. Check with your local authority on what restrictions might apply.

- **The Lithium-ion Battery of Your e-Bike**

Your e-bike is equipped with the latest battery technology. The lithium-ion battery is much lighter than lead- or nickel-based batteries that are being used in some older models.

- **Your First Ride**

Please be VERY CAREFUL when you are ready to get on your e-bike for the first time because that the e-bike moves significantly faster than a regular bicycle at active power-assisted mode. Take your e-bike to an area with a lot of open space before you start. Do not start pedaling hard as soon as you get on the e-bike (as you normally would so with a regular bicycle), as the e-bike will accelerate under pedal-assist mode and you may be unprepared for the sudden increase in speed. However, after a few times, you will enjoy using the pedal-assisted function.

## ASSEMBLING YOUR NEW E-BIKE

As your purchased e-bike is unassembled, please follow these instructions to assemble your e-bike under the guidance of an adult or a qualified technician. Assembly is quite easy as most of the parts are already assembled(85% assembled); you need only to put a few large pieces together to complete the job.

You may click the following link to view the demonstration of assembling the e-Bike

2019 Wallke Ebike Assembly Instructions:

[https://www.youtube.com/watch?v=byzYRy\\_aREQ&t=13s](https://www.youtube.com/watch?v=byzYRy_aREQ&t=13s)

Wallke X3 PRO fat tire 28mph ebike (Cycling show video):

<https://www.youtube.com/watch?v=6agdvdKLTQs&t=59s>

Remarks: The link is subject to change without advance notice. For more information, please refer to this website: [www.wallkeebike.com](http://www.wallkeebike.com).

- **Name Of Each Part**





It is recommended to retain the original packaging for a short period of time and keep it as intact as possible.

Riding a bicycle is an inherently dangerous activity, and it is your responsibility to ride safely and within your abilities. Proper assembly is vital to the safe operation of your bicycle, so seek professional assistance if you are unable to complete the assembly of your bicycle as outlined in this manual.

### ● Check That The Package Is Complete And Undamaged

Your e-bike comes in a carton containing the following:

- ♦ The main body of the e-bike – consisting of the frame, the rear wheel, the gear and chain, the rear brake, the battery receptacle.
- ♦ The handlebar subassembly with the battery's keys attached on it – the handlebar subassembly is not really separate, as it is connected to the main body by the brake cables and electrical wires. The handlebar also has the brake levers and gear control already assembled. Additionally, the left handle also has an integrated control for the throttle mode power-assisted, a display panel.
- ♦ The Seat – the seat is attached to its pedestal stem.
- ♦ The front wheel
- ♦ Front light – the front light is not really separate, as it is connected to the main body by an electrical wire.
- ♦ Tools and other parts – One multi-wrench, one charger, a pair of foot pedals and this manual, they are contained in a separate box.

## ASSEMBLY

See separate assembly instructions and videos at YouTube channel:

Wallke Ebike



### Wallke X2 Pro Installation Tutorial Six Steps:

- **Assembly - Step 1: Fix The Handlebar On The Bicycle Riser With Riser Cover**



1. Release side stem bolts  
Rotate 180 degree



2. Release the bolt



3. Install the handlebar



4. Tighten the screws

## ● Assembly - Step 2: Attach The Front Wheel And Adjusting The Front Brake

Make sure that the fork from the steering column is pointing forward. Remove the protective bar from the front fork, place the front wheel within the fork and the brake disc within the brake block, seat the axial stem properly within the receptacles at the tips of the fork, and tighten the nuts with the multi-wrench. Make sure that the front wheel moves freely and does not wobble from side to side. Reposition the wheel and re-tighten if necessary.

Seat the axial stem properly within the receptacles at the tips of the fork.



1. Put the front fork into the front wheel



2. Install the washer and bolts

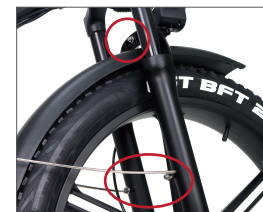
Test the brake by lifting the front of the e-bike and setting the wheel in motion (turn it) and apply the brake at the handlebar to stop it. If you could not set the wheel in free motion, or if you could not stop it by applying the brake, you need to re-adjust by increasing or decreasing the clearance.

Caution: Do not operate the e-bike until you are satisfied that both the front and rear brakes are operational.

## Step 3 Install the Front Fender



1. Find the three installing point



2. Install the screw



## Step 4 Install the Rear Fender and Rack



1. Find the three installation point in red circle



2. Tighten the bolts



1. Find the 4 installation point



2. Prepare the four bolts

3. Fix the rack firmly



4. Done

### ● Assembly - Step 5: Installing the Seat and Pedals

Insert the pedestal stem of the seat into the seat column of the main body frame, use the built-in lever to tighten.



1. Find the white bushing



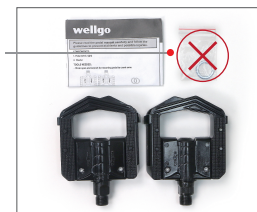
2. Insert the bushing and seat post into the tube



3. screw the bolt and tighten the lever

Attach a pedal on each side of the crank, tighten with the multi-wrench.  
Inflate the tires to proper pressure.

No washer

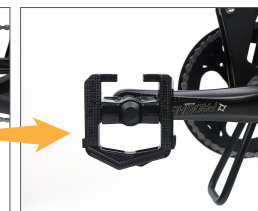


Left pedal

Right pedal

Counterclockwise rotation

Push inside



Clockwise rotation

Push inside



At this point, your e-bike is a completely functional bicycle, although without any battery operated to function as yet. Check all tightening points to make sure. Take a short ride. Adjust the height of the handlebar, and the height and the tilt of the seat, if necessary, for maximum comfort.

### ● Assembly - Step 6: Charging the Battery

Remove the charger from the box, attach the power cord and insert that to any wall outlet. Insert the plug at the end of the smaller cable into the charging terminal of the battery and start charging. The charging terminal is on the side of the battery opposite to a hole on the side of the frame. The LED on the charger glows RED while charging and glows GREEN when charging is complete. The battery should be turned OFF while being charged. When the LED on the charger turns Green, disconnect the charging cord and cover the charging terminal with the rubber cap. If a battery is installed on the e-bike, the display panel will show the electricity percentage of the battery when the bike turned ON.

You are now ready to start using your e-bike!

# PATENTED TECHNOLOGY

## Wallke Power Assist System (W-PAS)

Wallke is committed to provide premium electric bikes at an affordable price. To achieve that goal, Wallke R&D team has been focused on electric vehicle technology since its establishment and brought us a huge surprise, Wallke power assist system (W-PAS) in 2019.

Wallke power assist system (W-PAS) is a patented technology. Our latest products Wallke X3 PRO are equipped with W-PAS.

W-PAS motor after being optimized, can easily make the efficiency more than 83%, under intelligent controlling, can be realized the seamless switching between drive and generate.

The System has achieved two major breakthroughs: One is comparing to the traditional control system it saves more than 50% of electric power.

The other is that the kinetic energy could be collected while the bike gliding and downing hill, and convert it into electrical energy by W-PAS system, which can be stored in batteries.

For example, a mile of downhill kinetic energy can be converted by W-PAS system, allowing the bike to ride an extra mile on flat road, furthermore keeping the battery more active and prolonging its life.

## W-PAS Cruise Control

One more huge surprise, W-PAS CRUISE CONTROL

W-PAS CRUISE CONTROL to Wallke X2 PRO

Just like the cruise control in your car, the W-PAS Cruise Control function allows you to lock the accelerator on a specific speed without pedaling. The W-PAS Cruise Control will AUTOMATICALLY turn on when the bike stays at ANY Speed for over 5 seconds without moving the handles. It not only provides more fun when riding, but also helps the W-PAS running more efficiently. With the W-PAS Cruise Control function, the riding experience with Wallke is lifted to the whole new level!

## Operating Your New E-Bike

The method to turn on the bike is:

I, twist the battery lock counterclockwise to the end;

II, press power button on the LCD until it lights on;

III, twist the thumb throttle bar or pedal the bike, you can change the power level with '+' or '-', level 1 is the slowest and level 3 is the fastest, level 0 is human model.

Note: The bike speed up to 15-18mph in 0-1 gear, Wallke power assist system Will be activated automatically.

Your e-bike is driven by a motor embedded in the hub of the rear wheel. The motor is powered by a battery. The amount of power delivered to the motor, and hence the accelerating force on the e-bike, is controlled by you in a way according to the power-assisted mode you choose.

You can configure the e-bike to operate in the pedal-assist-only-mode or the full power mode (should check against local laws to ensure full power mode is permitted) where you can also use the hand throttle to deliver power to the motor. The e-bike is factory-configured to operate in the pedal-assist-only mode.

### ● Your First Ride

(Reprinted from the Safety and Compliance with the Law section)

Please be VERY CAREFUL when you are ready to get on your e-bike for the first time because the e-bike moves significantly faster than a regular bicycle at active power-assisted mode. Take your e-bike to an area with a lot of open space before you start. Do not start pedaling hard as soon as you get on the e-bike (as you normally would do with a regular bicycle), as the e-bike will accelerate under pedal-assist mode and you may be unprepared for the sudden increase in speed. However, after a few times, you will enjoy using the pedal-assisted function.

### ● Pedal-Assisted

You must turn on the battery to use the e-bike in pedal-assisted mode.

In the pedal-assisted mode, power assist is triggered when you pedal forward, and power assist stops when you stop pedaling. In other words, power assist happens as long as you pedal. You don't need to pedal hard. All you need is to apply a light force to the pedals continuously to maintain the current flow. When you apply one of the brakes, power assist will automatically stop, allowing the e-bike to slow down and stop. Power assist will turn itself off when the e-bike has reached the maximum speed of 28 mph.

You should use the gear shifter at the handlebar to set the gears appropriately according to road conditions and pedal, as usual, you will find that you need to exert a lot less effort and the e-bike travels faster and at a more steady speed.



## ● Hand Throttle Control

In the thumb throttle mode, amount of power assist is determined by the throttle switch controlled by your left hand. You control the throttle by twisting it from its resting position, the farther the throttle switch is from its resting position, the more power is delivered to the motor to accelerate the e-bike. When you want to slow down, you simply release the throttle and let it return to its resting position, and simultaneously apply the brakes if necessary.

You do not need to pedal the e-bike if you use the thumb throttle. However, you can pedal while commanding power assist. If you do pedal to help the movement, you conserve energy and the charge in the battery will last longer.

## ● W-PAS Cruise Control To Wallke X2 Pro

Just like the cruise control in your car, the W-PAS Cruise Control function allows you to lock the accelerator on a specific speed without pedaling. The W-PAS Cruise Control will AUTOMATICALLY turn on when the bike stays at ANY Speed for over 5 seconds without moving the handles.

## Charging Your E-Bike Battery

- Your e-bike battery is a lithium-ion battery. Lithium-ion battery requires specially designed chargers. You should never charge your battery with a substitute charger that is not designed for this use. Use of an unsuitable charger to charge a lithium-ion battery will result in overheating, fire or even explosion. If your charger is lost or damaged, contact your dealer to order a replacement.

Charge your battery while the e-bike is not in use. You should turn off the battery before you charge it. You may charge your battery while it is mounted on the e-bike, or after it has been removed from the e-bike.

Do not place either the charger or the battery near flammable substances while charging is taking place. Charging should not be done in the vicinity of infants and small children. It is also prudent to remove valuable objects from the immediate vicinity of the battery while it is being charged.

The length of charging time depends on the level of charge the battery still holds. If a battery is completely discharged, it will take 5-6 hours to be fully recharged. When a battery is fully charged, the LED on the charger will transition from RED to GREEN. At this point, you should disconnect the charger. Do not leave the charger connected to the battery for a very long period of time after charging is complete. (Leaving it connected for an overnight charging is OK.)

It is normal for the charger and the battery to be slightly hot while charging is on-going.

## ● Removing The Battery From The E-Bike

The battery is an important and costly part of the e-bike. It is designed to be locked into position with a key to preventing theft. You can take further precaution by removing the battery while the e-bike is parked unattended. You may also have a need to remove the battery from the e-bike to recharge it at a location where you cannot park your e-bike.

The method to remove the battery is: I, fold the bike; II, insert the key into the battery, hold pressing the key a bit until twist clockwise to the end (Note: You can't remove the battery until the lock bar withdraws into the battery completely); III, slip off the battery, the battery is quite heavy and you should take care not to drop it.

## ● Maximizing The Riding Range

Many factors affect the rate of use of the electrical energy and the riding range.

- ◆ You should fully charge the battery before a long journey.
- ◆ Rough road conditions and hilly terrain will consume more energy.
- ◆ Frequent change of speed will consume more energy.
- ◆ Carrying more weight on the e-bike will consume more energy.
- ◆ Keeping the tires properly inflated and keeping the e-bike clean and well lubricated will save energy.
- ◆ Making sure that both wheels move freely when brakes are not applied will save energy. You should check brake adjustments frequently.
- ◆ Pedaling as you ride will consume less electrical energy and increase the riding range.
- ◆ When the battery is turned off, your e-bike functions as a regular bicycle. If you embark on a very long journey, you might want to turn off the battery for long stretches where the road is level or downhill and pedal the e-bike as a regular bicycle so that you can conserve electrical energy stored in the battery.

## CARE & MAINTENANCE FOR YOUR NEW E-BIKE

You should, in general, take care of your e-bike the way you would with a regular bicycle by keeping it dry, clean and the moving parts well lubricated. You should also avoid parking your e-bike in exposed areas whenever possible.

You should check the effectiveness of the brakes before each use.

### ● For Your E-Bike, You Should Also Take Note Of The Following:

- ◆ Your e-bike is designed for regular country road use for a single person. Using your e-bike for extreme maneuvers, such as extreme off-road use, jumping, or carrying the excessive load will damage the e-bike and could cause serious injury.
- ◆ Do not use high-pressure water streams to clean your e-bike, as water might seep inside the motor or the wiring compartment and cause rusting of electrical parts or short circuits.
- ◆ Avoid parking your e-bike outside when there is rain or snow. At the end of a trip where there was rain or snow, bring the e-bike inside and use a clean, dry towel to eliminate any wetness.

### ● Special Care For The Battery And The Charger

- ◆ Use only the supplied charger to charge your battery. Do not use an unauthorized substitute. If your charger is lost or damaged, contact your dealer to order a replacement.
- ◆ Do not open or alter the battery or the battery charger.
- ◆ Do not place the battery near fire or corrosive substances. Do not immerse in water or other liquids.
- ◆ Avoid subjecting the battery from high temperatures, such as directly under the hot sun, for prolonged periods of time.
- ◆ Do not connect (short circuit) the two poles of the battery.
- ◆ After much use, your battery's charge holding capacity will decrease. If you find that your battery does not hold sufficient charge even for short trips, you should contact your dealer to order a replacement. Under normal use, the battery will undergo 1000 charging and discharging cycles.
- ◆ If the battery will not be used for an extended period of time, charge it fully and recharge it every 3 months. Store it in a cool place.
- ◆ Your e-bike battery is engineered with precision for high capacity and long useful life. We do not recommend that you use it to power other electrical devices. Improper use of the battery will damage the battery and shorten its useful life and may cause a fire or an explosion.

### ● For The Battery, You Should Also Take Note Of The Following:

- ◆ 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.
- ◆ 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.
- ◆ Keep the battery away from children.
- ◆ When the battery is not in use for an extended period of time, remove the battery 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 For You Bike

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.



## SAFETY TIPS

### We Recommend The Following Safety-related Procedures:

- ◆ Wear a helmet.
- ◆ Ride in control at all times.
- ◆ Use lights and reflective gear in low light situations.
- ◆ Inspect your bike often — especially the brakes.
- ◆ Seek maintenance if there are any notable changes in bike performance.
- ◆ Know and observe the rules of the road before cycling. Bike users must follow all road rules.
- ◆ Ride defensively. To motorists, pedestrians, or even other cyclists, you are not as visible as you might think. Always watch for hazardous situations, and be ready to stop or take evasive action at all times. With the assistance of the electric motor, you may be travelling faster than drivers expect—beware of cars pulling out in front of you.
- ◆ Avoid road hazards. Watch for and avoid potholes, drain grates, railroad tracks, loose road material, and other hazards.
- ◆ Use both the front and the rear brakes together for best performance. Using ONLY the rear will significantly increase your stopping distance.

### E-Bike Road Safety

Always obey traffic laws including lights, signals, and road signs that apply to traditional cyclists, cars, and other vehicles. Stay in the appropriate lane, using bike lanes when available. Cyclists tend to break the speed limit and red light laws.

This will only put you at risk of an accident. And this is a higher risk than for cyclists because your e-bike can travel faster than traditional bicycles. Do not cycle on the sidewalk/pavements as it can put both you and pedestrians at risk;

Be wary of everyone. E-Bike company AXcess states (source) that cars will not always realize how fast you are going and may assume that you are exponentially slower than them. To avoid the risk of accidents, always allow cars to get their right of way first, and do not rush. Be patient and alert, especially at intersections and turns.


## BATTERY SAFETY

These safety precautions are provided for your benefit to protect you and those around you. Please read and follow them carefully to avoid unnecessary injury, damage to the product, or damage to other property.

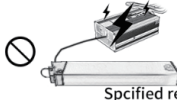
### Battery

**⚠ CAUTION**

■ Do not throw the battery into a fire. Do not overheat the battery.




■ Do not connect the battery to other appliances other than your battery.




Specified rechargeable battery

■ Use only the specified charger to charge the battery.

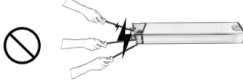


■ Do not take apart or modify the battery.



Disassembly Prohibited

■ Do not connect positive and negative terminals by using metallic objects.




(Electrolyte leakage, overheating and/or rupture may result in this type of abuse.)

### Battery Charger


**⚠ CAUTION**

■ Do not take apart or modify the charger




Disassembly Prohibited

■ Do not subject the charger to shocks, e.g. by dropping. Keep the charger away from water



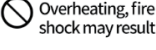
■ Do not touch the charger with your skin for long periods during charging



Burning of the skin may result, as external temperature of the charger during charging may become 40C~60C(104F~140F)

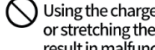
Overheating, fire or electric shock may result

■ Do not cover the charger or place objects on it




Overheating, fire or electric shock may result

■ Place the charger firmly on a flat dry surface



■ Do not short-circuit the terminals by using metallic objects



Overheating, fire or electric shock may result

Using the charger upside-down or stretching the cable tight may result in malfunction, fire or electric shock

**⚠ WARNING**

- Keep the battery away from water. Pouring water on the battery may result in short-circuit, overheating or permanent damage of the battery.
- Do not submerge the battery. Soaking the battery in water may cause irreparable damage.

**⚠ WARNING**

- Do not apply pressure to the cable or the plug.
- ⊘ Placing the cable tightened between a wall and a window frame, or placing heavy objects on the cord or the plug may result in electric shock or fire.
- Be sure to insert the plug securely into a wall socket.
- ⊘ Electric shock and overheating may result, causing fire.
- Do not touch the plug with wet hands.
- ⊘ Electric shock may result.
- Keep out of reach of children or pets.
- ⊘ Electric shock or injury may result.
- Do not attempt to use another maker or model's charger to charge the battery.
- ⊘ Overheating, fire or electric shock may result.
- Do not use the charging plug and/or the power source Plug when they are dirty, wet or dusty.
- ⊘ Insulation failure due to moisture absorbed in the dust may result, causing fire.
- Pull out the power source plug and clean it with a dry cloth.
- To remove a cable from a socket, pull the plug, not the cable.
- ⊘ Always pull the charging cable gently.
- Do not rotate the pedals when charging the battery while it is mounted on the bicycle.
- ⊘ The cord may twist around the pedal or the crank, and the damage to the plug may result, causing electric shock or fire.
- Do not apply voltage over the rated value to the charger.
- ⊘ Do not use sockets, correctors and other wiring devices with a power source other than standard rated voltage (AC110-240 volts) power supply.
  - Overheating, fire or electric shock may result.
- Do not use damaged components such as charge case, power cord, plug etc.
- Electric short, short-circuit or fire may result.

**WALLKE X2 PRO SPECIFICATIONS**

Our bikes have a number of different traits, so it might not be possible to get every single attribute you want in the same model. Please find the specifications of our Wallke X2 Pro as listed below.

Battery	48V 11.6H Samsung lithium battery Battery
Motor	48V 750W brushless motor
Top Speed	Up to 24.8MPH
Mileage	25-35 miles (E-bike)   35-40 miles (PAS)
Charging time	5-7 hours
Charger	US standard 48V 2A smart charger
Battery Charger Input Volt	110/220 volt AC
Battery Operational Temperature	0° to 40° Celsius (32° to 104° Fahrenheit)
Battery Life	Approximately 1000 complete charge/discharge cycles
Frame	26 inch aluminum alloy foldable frame
Display	Multi-function color display (with USB rechargeable)
Freewheel	Shimano 8 speed cassette
Fork	26-inch alloy pneumatic shock absorption, adjustable and locked suspension fork
Brake	Double-disc hydraulic brake
Transmission	Shimano 8 speed
Seat	Silicone seat
Tire	26*4.0 inch CST tires for mountain, snow, rain or muddy road
Pedal Sensor	Cadence Sensor
Fender	Included
Rack	Included
Front LED Light	Included
Maximum payload weight limit	300lbs
Recommend rider heights	5'4" - 6'5"
Bike Weight (Without battery)	61 lbs (54.4 lbs)
Climb Grade	30 degree

## GENERAL TROUBLESHOOTING

As one or more causes of failure might lead to the failure phenomenon, you should find out the true cause(s) and then take the appropriate solution(s) to rectify the problem. In case of doubt, please consult a qualified technician for service, repairs or maintenance.

Phenomena	Possible Causes	Solutions
It doesn't work	<ol style="list-style-type: none"> <li>1. Insufficient battery power</li> <li>2. Faulty connections</li> <li>3. Battery not fully seated in tray</li> <li>4. Brakes are applied</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the battery</li> <li>2. Clean and repair connectors</li> <li>3. Install battery correctly</li> <li>4. Disengage brakes</li> </ol>
Irregular acceleration and/or reduced top speed	<ol style="list-style-type: none"> <li>1. Insufficient battery power</li> <li>2. Loose or damaged throttle</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge or replace battery</li> <li>2. Replace throttle</li> </ol>
When powered on, the motor does not respond	<ol style="list-style-type: none"> <li>1. Loose wiring</li> <li>2. Loose or damaged throttle</li> <li>3. Loose or damaged motor plug wire</li> <li>4. Damaged motor</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair or reconnect</li> <li>2. Tighten or replace</li> <li>3. Secure or replace</li> <li>4. Repair or replace</li> </ol>
Reduced range	<ol style="list-style-type: none"> <li>1. Low tire pressure</li> <li>2. Low or faulty battery</li> <li>3. Driving with too many hills, headwind, braking and/or excessive load</li> <li>4. Battery discharged for long period of time without regular charges (aged or damaged)</li> <li>5. Brakes rubbing</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust tire pressure</li> <li>2. Check connections or charge battery</li> <li>3. Assist with pedals or adjust route</li> <li>4. Replace the battery</li> <li>5. Adjust the brakes</li> </ol>
The battery won't charge	<ol style="list-style-type: none"> <li>1. Charger not well connected</li> <li>2. Charger damaged</li> <li>3. Battery damaged</li> <li>4. Wiring damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the connections</li> <li>2. Repair or replace</li> </ol>
Wheel or motor makes strange noises	<ol style="list-style-type: none"> <li>1. Damaged motor bearings</li> <li>2. Damaged wheel spokes or rim</li> <li>3. Damaged motor wiring</li> <li>4. Disc not centered</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace</li> <li>2. Repair or replace</li> <li>3. Repair or replace motor</li> <li>4. Adjust the brake or replace</li> </ol>
Sensor Issue	<ol style="list-style-type: none"> <li>1. Sensor loose</li> <li>2. Sensor or cable broken/damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the connections</li> <li>2. Repair or Replace</li> </ol>
Pre-load and turn off bike suddenly	<ol style="list-style-type: none"> <li>1. Battery or motor over heat protection</li> <li>2. Battery or controller cable loose</li> <li>3. Battery or controller cable damaged</li> </ol>	<ol style="list-style-type: none"> <li>1. wait 1-3 minutes to restart e-bike</li> <li>2. Adjust the connections</li> <li>3. Repair or Replace</li> </ol>

## ERROR CODES & TROUBLESHOOTING

In the event of a problem with the electrical components of your bike, the display will show an error code.

Compare the code with this list below and HOW TO RESOLVE:

CODE	ERROR	HOW TO RESOLVE
21	Current Error	Check the cable that connects the rear hub motor to the rest of the system. Make sure it is free from grit or contaminants and is firmly connected.
22	Throttle Error	When you press and release the throttle, it should return to the original position. Remove any obstructions. Check the throttle and throttle cable for damage, such as a cut or frayed cable.
23	Motor Phase Error	Check the cable that connects the rear hub motor to the rest of the system and make sure it is free from grit or contaminants and is firmly connected. This error might appear if you don't reconnect the cable after removing the rear wheel (for example, after changing a flat tire, or transporting your bike in the trunk of a car). At least one of the motor phase wires has been damaged or is temporarily disconnected.
24	Motor Hall Sensor Error	The hall sensor inside the rear hub might be disconnected or damaged. Service or replace the rear hub.
25	Brake Error	When you apply the brakes - built in "magnetic reed switches" - disengage the motor's power when the lever is squeezed. If the lever is damaged (for example, following a crash), it might need to be replaced.
30	Communication Error	Poor connection between the controller and the display, check all cable connections.

## Wallke E-Bike Warranty

Every Wallke E-bike is covered under our manufacturer's one year all-inclusive warranty for the original owner against all manufacturing defects.

Note: The warranty applies only to original owners and is not transferable.

## What About Warranty On Wallke?

Parts covered by the warranty: frame, forks, stem, handlebars, headset, seat post, saddle, brakes (excluding brake pads), lights, bottom bracket, crank set, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, motor, throttle, controller, wiring harness, LCD display (excluding damage due to water), kickstand, reflectors, and hardware. The battery warranty does not include damage from power surges, use an improper charger, improper maintenance or other such misuse, normal wear, or water damage.

The warranty does not cover an incorrect assembly or installation of the product by the user; an improper or negligent use, operation or transformation of the product; a maintenance contrary to the maintenance instructions of the product (eg. lack of maintenance of the brakes); normal wear and tear; defects inherent to the normal useful life or service life of the product, such as a flat battery that can be replaced by the consumer; damages or defects due to accidents.

### Notes:

Failure caused by the following cases are not included in the warranty contents. However, the designated store or sales dealer has the responsibility and obligation to provide paid repair service:

- ◆ Without invoice and the warranty.
- ◆ Using and maintaining without complying with the user's manual.
- ◆ Using the electrical bicycle for other purposes or dangerous acts.
- ◆ Dismantling the parts without permission or improperly use and storage.
- ◆ Without using the original parts.
- ◆ Traffic accidents or other accidents.
- ◆ Anti-rust layer damage caused by abnormal use, which leads to the corrosion and fracture of the parts.
- ◆ Riding on the abnormal road conditions.
- ◆ Commercial rental use.
- ◆ Irresistible natural disasters

## Shipping Damage Claims

IMMEDIATELY inspect your product(s) for damage. Shipping damage must be reported to Wallke Ebikes within 7 days of shipment arrival. We will not accept Shipping Damage Claims later than 7 days from receipt of products.

## What Will We Do To Correct Problems With Your Bike?

If any component is deemed to be defective or damaged without user error, we will issue a replacement part and assist you in replacing the defective parts. We will replace any parts deemed to have been damaged during shipping.

## What Do You Need To Do?

- Step 1 - Contact Wallke Customer Service team by email.
- Step 2 - Provide photo, video and other details as requested by Wallke.
- Step 3 - Wallke Customer Service team will reply you asap.

Note: Wallke will not replace any part without first inspecting photos or video of the damaged part.

## TEST-RIDES

Our Los Angeles Pop-Up is now open!

We are located at 823 W Milford St, Glendale, CA 91203

Call us to make a test-ride appointment today! 323-487-1984

Wallke LA showroom website: <http://www.wallkela.com/>

