

USER MANUAL | CYCULTRA



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1. Product Overview



2. In the Box



Front Wheel x1



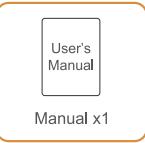
QR Skewer
for Front Wheel x1



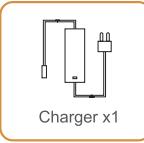
Pedal x2



Key x2



User's Manual
Manual x1



Charger x1



Seat (with Seat Post) x1



Tool Bag x1



Hex Key x4



2-in-1
Screwdriver x1



Dual Open-ended
Wrench x2



Bike Frame (with Rear Wheel) x1



Check the parts and accessories carefully. If there are missing or damaged parts/accessories, please contact online customer service support.

3. Assembly Instructions

Before Assembly

- Please read this manual thoroughly and follow its instructions.
- Do not install the battery or start the computer until the bike is fully assembled.
- Make sure all parts are intact.
- If you have any questions or can't find the information you need in the manual, please email us at support@cycrown.com.

3.1 Adjust the stem



1. After removing the bike from the package, use an appropriate hex key to loosen the bolts used to hold the stem to the steerer tube. Then turn the stem 180°.



2. Re-tighten the bolts.



3.2 Install the handlebar

1. Remove the four bolts of the handlebar clamp with an appropriate hex key.



2. Put the handlebar into the clamp and adjust it to be perpendicular to the bike frame.



3. Re-tighten the four bolts.



3.3 Assemble and install the front wheel



- Find and remove the front wheel and the quick-release (QR) skewer.



- Open the QR lever and remove the thumb nut from the QR skewer.

⚠ There are two cone springs on the QR skewer.



- Pass the rod of the QR skewer through the front wheel hub.

- Pre-fasten the thumb nut.

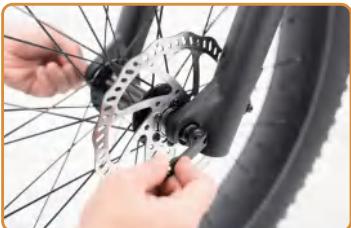
⚠ Make sure the QR lever is on the same side of the disc brake rotor. Both cone springs should point toward the front wheel hub. Keep the QR lever open and rotate the thumb nut a few turns. Make sure there is enough room for the front fork dropouts.



- Lower the front fork onto the front wheel. The brake rotor should go into the brake caliper in between the brake pads and the axle should enter the fork dropouts fully.

 *Check if the wheel is fully seated in the dropouts.*

- Keep the quick release lever in line with the axle and tighten the thumb nut until the lever can stay in parallel to the floor without being held. Use the palm of your hand to close the lever fully without touching the brake rotor.



 *The quick release lever secures the front wheel to the bike, so the thumb nut must be tight enough so that the closed lever has adequate clamping force and keeps the axle and wheel firmly in place.*

 *Make sure the front wheel is installed tightly.*

3.4 Install the headlight



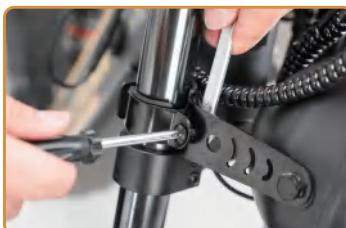
- Install the plastic adapters on the desired positions of the two fork tubes.



- Attach the front light brackets on the plastic adapters.



- Attach the clamps to the front light brackets.



- Tighten the bolts with an appropriate hex wrench and an open-ended wrench.



- Connect the power cable of the front light.

3.5 Install the pedals



1. Identify the right pedal and left pedal by the "R" and "L" marks on them.

2. First, hand-tighten the pedals by spinning the right pedal clockwise and the left pedal counter-clockwise. Then tighten the pedals with the provided open-ended wrench.



3.6 Install the saddle



• Open the seatpost clamp below the saddle. Pull up or push down the saddle to adjust heights.



• Close the clamp to fix the seatpost in place. Do not install the seat with the safety line higher than the clamp.

3.7 Battery Key Positions

(Before riding, familiarize yourself with battery key positions and the charging port.)



Battery charging port

- When the key is in position 1, the battery is locked to the frame. The key can be removed. And you can ride the bike.

- When the key is in position 2, the battery is in unlocked status. You can remove the battery from the frame. To prevent accidents, do make sure the battery is in lock status (key in position 1) before moving or riding the bike.



3.8 Remove the battery

(For your convenience, the battery is designed by CYCROWN to be removable.)

 **Attention!** When removing the battery, do not drop or damage it. When installing the battery, align the battery to the battery compartment, and push up the battery. Give it a hard push and there will be a clicking sound indicating the battery is secured and will not move around.



Make sure the power of the bike is turned off. Insert the key and turn it clockwise to the unlocked position.



When the battery is unlocked, it will pop out but not fall down. Rotate the knob switch on the battery to detach the battery from the bike. Please hold the battery while removing it.

4. Charging Instructions

4.1 Bike charging instructions



Battery charging port

- Open the rubber cover of the charging port on the right side of the bike.
- Make sure to turn off the power of the bike.
- Insert the DC connector of the charger into the charging port on the bike. Note: When you charge the bike, place the charger on a flat and safe surface.
- Insert the AC plug of the charger into the power socket. It will start charging with red LED indicator light on the charger. Once the battery is fully charged, the indicator light will turn green.
- After charging, unplug the charger from the power socket first, and then remove the DC output connector from the charging port on the bike.

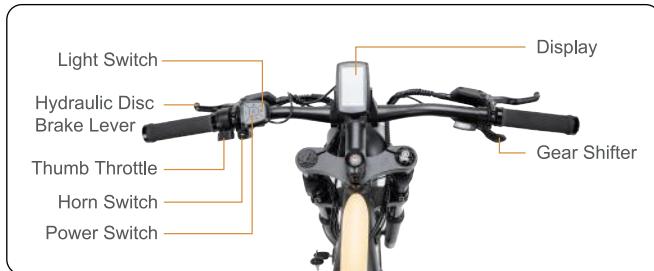
4.2 Charging with batteries out of the bike

(Also, you can charge the battery after it is removed from the bike.)



- Make sure to turn off the power of the bike.
- Turn the key to the unlocked position to remove the battery. (Refer to the battery removal instructions mentioned previously for detailed information).
- Insert the DC connector of the charger into the charging port on the battery. Note: When you charge the battery, place the charger on a flat and safe surface.
- Insert the AC plug of the charger into the power socket. It will start charging with red LED indicator light on the charger. Once the battery is fully charged, the indicator light will turn green.
- After charging, unplug the charger from the power socket first, and then remove the DC output connector from the charging port on the battery.

5. Riding Modes



Speed Modes	Full Throttle	Pedal Assist
0	✗	✗
1-5	✓	✓
Display OFF	✗	✗

Thumb throttle

Turn on the E-bike and the smart display and you can switch the speed from 1 to 5 by pressing the thumb throttle .

PAS

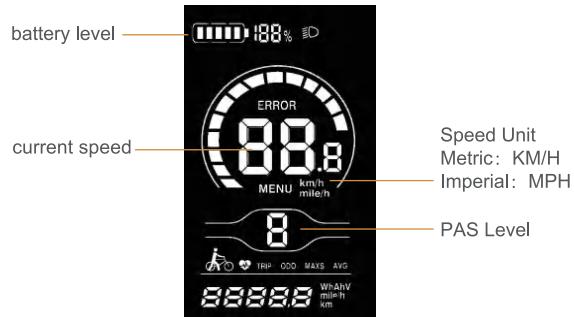
Turn on the E-bike and the smart display and you can pedal the E-bike with 1-5 PAS level by pressing the + or - button.

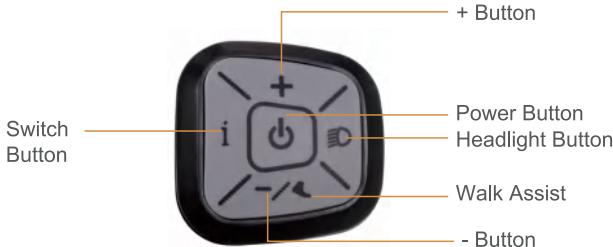
Pedal

Turn off the E-bike and the smart display and you can pedal the E-bike like a normal bike.

- Before riding, fully charge the battery and make sure the battery lock switch is in locked position.
- Press and hold the power button for 2 seconds to power on the electric bike.
- The top speed is 28 mph (45 km/h).
- Switch top speeds by pressing the + or - buttons and the shifter levers.
- Stop: Release the throttle and squeeze the brake lever to slow the front and rear wheels.

6. Display and Buttons





Buttons

There are six buttons on the operation unit corresponding to the computer: Power on/off button, + button, - button, Front light button, and 1 Switching button.

Power/+- Buttons

- Press to switch speed modes from 1 to 5
- Hold for about 2 seconds to power on/off the E-bike
- Press to switch speed modes from 5 to 1

Horn Switch

- Press or hold to activate the horn

Function Description

Functions:

1. On the screen

Speed, PAS level, Battery level, Fault indicator, Total travel distance, Trip distance, Trip time.

2. Controls and settings

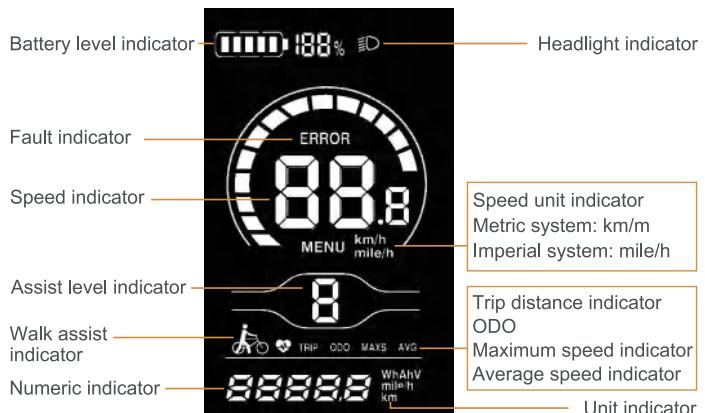
Power on/off control, Front light on/off control, 6 KM/H walk assist mode control,

Wheel diameter setting, Top speed setting, Auto sleep time setting, Backlight brightness setting, Voltage level setting.

3. Communication protocol: UART

Displays all data for 1 second after startup

All On-board Information (With in 1s After Power On)



Basic operations

1. Power on/off

After holding the power button, the computer is connected the working power of the controller and starts to work. In the power-on state, press and hold the power button to turn off the power of the electric bike. In the shutdown state, the computer does not use the battery power, and the leakage current is less than 1uA.

 *If the e-bike is not used for over 10 minutes, the computer will automatically shut down.*

2. Select TRIP / ODO / MAXS / AVG

After the computer is turned on, the default display information is current speed (mph) and odometer (mile). Press  to switch between odometer (mile), trip odometer (mile), top speed (mph), and average speed (mph).

3. Walk mode (walk assist)

Press and hold  for walk mode. The e-bike will travel at a constant speed of 6km/h and there is a  on the display. Release  and the e-bike will stop power output and return to the state before walk mode.

 *Only use the walk mode when you are walking the bike. Never use the walk mode in riding.*

4. Turn on/off the headlight

Press  to turn on/off the the headlight.

5. Select PAS levels

Press  or  to adjust the PAS levels, thereby changing the output power of the motor.

6. Battery level

The battery levels are displayed in the form of 5 bars. When the battery level is full, there are 5 bars. When the battery is undervoltage, the outer border of the battery icon will flash, indicating that it needs to be charged immediately.

7. Fault code

When the electronic control system fails, the computer will automatically display the error code. For the definition of the detailed error code, see Attached Table 1.

 *When an error code appears on the display, please troubleshoot in time, the electric bike will not be able to work normally after a fault occurs.*

Personalized parameter settings

All parameters can only be set when your e-bike stops.

The steps for general setting are as follows:

In the power-on state, when the display shows the speed of 0,

(1) Press and hold the buttons  and  at the same time for more than 2 seconds to enter the personalized parameter setting interface;

(2) Press the button  /  to switch the selection interface of geneal setting options, and press the button  to enter the parameter modification interface;

(3) Press the button  /  for parameter selection;

(4) Press the button  to save the parameter and return to the selection interface of general setting options;

(5) Press and hold the button  to save the parameter and exit the selection interface of general setting options.

Customizable parameters:

Select between the imperial and metric system

P01 means imperial and metric system setting item: 00 for metric and 01 for imperial.

Press **i** to enter parameter selecting status. Press **+** or **-** to select between 00 and 01. Press **i** to save the setting and return to the selection interface of parameter setting items;

Controller cruise control setting

P02 is the controller cruise control setting. The display can choose the following: 00→non enable, 01→enable.

Press **i** to enter parameter selecting status. Press **+** or **-** to select between 00 and 01. Press **i** to save the setting and return to the selection interface of parameter setting items;

Backlight brightness setting

P03 refers to the backlight luminance setting option. Parameters 01, 02 and 03 are available, which represent the backlight luminance, 1 for the minimum luminance, 2 for the standard luminance and 3 for the maximum luminance.

Press **i** to enter parameter selecting status. Press **+** / **-** to select between 01, 02 and 03. Press **i** to save the setting and return to the selection interface of parameter setting items;

Total mileage resetting

P04 is the total mileage resetting option.

After selecting "P04", press **i** to enter the odometer resetting interface and then press **+** to select "01". Press **i** again to reset the odometer to zero.

Attached Table 1: Fault code names and definitions

Fault Code	Meaning	Fault Code	Meaning
ERROR 04	Throttle Not Returning	ERROR 14	Controller Overheating
ERROR 05	Throttle Fault	ERROR 15	Controller Temperature Sensor Fault
ERROR 07	Over-Voltage Protection	ERROR 21	Speed Sensor Fault
ERROR 08	Motor Hall Sensor Fault	ERROR 23	Headlight Fault
ERROR 09	Motor Phase Cable Fault	ERROR 24	Headlight Sensor Fault
H	Motor Overheating	ERROR 25	Torque Sensor Torque Signal Fault
ERROR 11	Motor Temperature Sensor Fault	ERROR 26	Torque Sensor Speed Signal Fault
ERROR 12	Current Sensor Fault	ERROR 30	Communication Fault
ERROR 13	Battery Temperature Fault		

7. For Your Safety

For safe riding, please read the following information carefully. Before riding, be sure to check that your brakes are working normally.

Before Your First Ride

- Check whether the quick-release screws and seat are firm and whether the brakes are effective.
- Check the seat, gears, and tire pressure. Proper tire pressure can avoid flat tires and improve performance, including distance traveled per inflation.
- Check the handlebar and screws at least once a week.
- Performing the above routine checks before and after each ride can help you keep your bike at peak performance and spot potential problems before they become safety hazards.

Check by Bike Mechanics Every 6 Months

- Bikes require regular maintenance. Take your bike to your local bike shop twice a year for tuning. Critical components should be inspected frequently and be repaired and adjusted by an experienced mechanic.

Notice

- Wear an approved helmet and other protective equipment to reduce any possible injury.
- Helmets can reduce serious head injuries by 85%.
- Elbow pads can reduce elbow injuries by 82%.
- Knee pads can reduce knee injuries by 32%.

Warning

- To avoid accidental movement while waiting at a traffic light, set the speed mode to zero, or apply brakes.
- When riding, make sure your feet are always on the pedals and your hands on the handlebars. It is dangerous to take your feet off the pedals in riding.

- Never ride the electric bike for dangerous actions. Failure to exercise good judgment or heed the above warning increases the risk of serious injury and, in rare cases, death.
- Make sure the battery is fully charged, especially for long trips.
- For your own safety and the safety of others, obey the speed limit, ride at a speed you are comfortable with, and be prepared to stop at any time.
- Keep a safe distance from other riders to avoid collisions.
- Be aware of your surroundings and avoid obstacles and unsafe surfaces.
- Ride in the open and flat. Try to avoid slopes or places with many pedestrians.
- Do not ride at high speeds, on uneven terrains, in bad weather or in other unsafe conditions.
- Never use the electric bike for anything that could cause personal injury or property damage.
- Ride e-bikes only where permitted. You must obey local laws and be courteous to pedestrians.

8. Battery Maintenance

A well-maintained battery performs well even after a long range. Charge the battery after each ride to prevent the battery from draining from a full charge. Batteries perform best when used at 70°F (22°C) room temperature. However, using it at temperatures below 32°F (0°C) will degrade performance. In general, at -4°F (-20°C), battery performance drops to half of that at 70°F (22°C). When the temperature rises, battery life will resume.

Refer to local laws and regulations regarding battery recycling and/or disposal.

Under normal circumstances, a fully charged battery can hold power for 90 days in standby mode. Remember to charge the battery after each use. Draining the battery may cause permanent damage to the battery. Electronics inside the battery record the charge and discharge of the battery. Damages due to over-discharge or over-discharge are not covered by the warranty.

Notice

- Do not perform any maintenance while the e-bike is powered on or charged.
- Store or charge the battery within the temperature range of 68°F~77°F (20°C-25°C). Do not pierce the battery.
- Do not attempt to disassemble the battery to avoid fire.
- When the ambient temperature exceeds the maximum operating temperature (see instruction manual), do not ride the bike.
- Temperature will limit maximum power/torque. Otherwise, personal injury or property damage may occur.

9. Cleaning

Before cleaning, make sure the power is turned off and the charging cable is unplugged. Otherwise, you may damage the electronic components. Proper cleaning of your e-bike can guarantee a longer lifespan and a smoother ride.

- Wipe the outer body of the e-bike with a soft and dry microfiber cloth.
- Check around the wheel to make sure there are no foreign objects. The design of this electric bike makes wheel maintenance easy.
- The e-Bike has IPX4 water resistance, which means it can withstand splashes. However, don't submerge the e-Bike in water.

Note  *Do not use alcohol, gasoline, acetone, or other corrosive/volatile solvents to clean the bike. These substances can damage the exterior and the internal structure of the bike.*

 *Do not allow water and liquids to enter the electric parts or the battery of the e-bike.*

10. Storage

The bike should be fully charged before storage to prevent the battery from being over-discharged after long-term storage. If the electric bike is to be stored for more than a month, discharge and charge the battery at least once a month.

Notice

- Do not store the electric bike outdoors for extended periods of time. Exposure to sunlight and extreme temperatures (both hot and cold) accelerates the aging process of plastic parts and can reduce battery life.
- Store in a cool dry place.
- Do not store it in dusty environments as damage may occur over time. Cover the bike to prevent dust.

11. End-of-Life Disposal

- This product cannot be disposed of by incineration, landfilling or mixing with household waste. Improper handling of the battery in this product may cause the battery to heat, rupture, or ignite, which could result in serious injury. The substances inside the battery pose a chemical risk to the environment. The end-of-life disposal recommendation for any CYCROWN product is to dispose of the entire device at an e-waste recycling center or through an e-waste recycling center, project or facility.
- Local regulations and laws related to the recycling and disposal of lithium-ion batteries and/or products containing lithium-ion batteries vary by national, state, and local government. In order to properly dispose of batteries and/or products containing batteries, you must check the laws and regulations that correspond to where you live.
- It is the user's responsibility to properly dispose of waste equipment in accordance with local regulations and laws. For additional information on disposing of batteries and electronics or electronic waste, Please contact your local waste management office or household waste disposal service.

12. Parameters

Item	Parameters
Model Name	CycUltra
Net Weight	80.7 lbs / 36.6 kg
Product Dimension	79.1*29.9*46.9 in. / 201*76*119 cm
Package Dimension	65.0*13.8*32.7 in. / 165*35*83 cm
Max. Incline	11° (rider weighs 220.4 lbs / 100 kg)
Max. Capacity	330 lbs / 150 kg
Max. Speed	28 mph / 45 km/h
Range	75+ miles / 120+ km
Motor	1,000 W
Battery Voltage	48 V, 15.6 Ah
Charge Voltage	100-240 V, 3 A
Wheel Size	26 in.
Charge Time	4-5 h
Water Resistance	IPX4
Storage Temperature	68°F~77°F / 20°C~25°C
Operating Temperature	-4°F~140°F / -20°C~60°C
Charging Temperature	32°F~104°F / 0°C~40°C
Warranty	1 Year Limited

13. Warranty

Dear Customer

Thank you for purchasing our foldable lithium battery bicycle! After purchasing our products, please provide correct, complete, and true personal information and fill in the warranty card to ensure that you receive high-quality service. For products that meet the warranty conditions, free maintenance is provided. We make the following commitments:

1. You can receive warranty service with the warranty card. The serial number on the bike body must match the serial number on the warranty card. If you can't provide proof of the repair date, Then the factory date or the order date will be the start date of the warranty and we will confirm if it is still within the repair date.
2. From the date of sale to the warranty expiration day, If there is a performance failure caused by non-human damage, once confirmed, our company promises to repair it free of charge. If the performance failure caused by man-made damage, once confirmed, our company will carry out paid maintenance.

Warranty Disclaimer

The following situations are not covered by the warranty service, and you need to pay the relevant service fees. beware:

1. Total riding distance is over 62 miles (100 kilometers)
2. Any damage caused by not following the instructions for use of the electric bike.
3. Lost or changed electric bike number.
4. Product damage caused by accidental factors or improper use, such as mechanical damage, breakage, and serious impact on the product, oxidation, etc.

5. Overload, over obstacles (Including but not limited to bottom pedals, falls, etc.), or damage caused by extreme conditions.
6. Any damage caused by abnormal storage conditions or electrical resistance, such as fire, immersion, high temperature, and earthquake.
7. Loss of wearing parts, such as packaging materials and various technical materials.
8. Other failures or damages not caused by product design, technology, manufacturing, quality, or other issues.
9. Not purchased from the CYCROWN online store.

14. Contact Us

If you have issues with riding, maintenance, safety, faults, or failures with the CYCROWN CycUltra electric bike, please contact us.

 support@cycrown.com

 www.cycrown.com



WWW.CYCROWN.COM



SUPPORT@CYCROWN.COM



成品尺寸: 210*140 mm

日期: 20240327

材质及工艺: 封面250G, 内页175G 双铜过哑膜

备注: CycUltra 说明书