

# RAPTOR MANUAL

## INBIKEOU Raptor 48V 2000W High-end version



This manual describes how to complete the final assembly safely and includes operating and maintenance advice. This manual was designed for the RAPTOR models. But most tips apply to all our models.

ENGLISH

# CONTENTS

|                    |    |
|--------------------|----|
| THANK YOU          | 3  |
| SECURITY           | 3  |
| ITEMS VERIFICATION | 4  |
| FINAL ASSEMBLY     | 5  |
| UNPACKING          | 6  |
| INSTALLING PROCE   | 8  |
| PEDALS             | 10 |
| ATTERY INSTALLA    | 11 |
| BATTERY CHARGING   | 14 |
| MAINTENANCE        | 15 |

Thank you for purchasing the Raptor 48V 2000W from INBIKEOU E bikes  
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 reference the INBIKEOU E bikes Help Center, contact us by email, and/or give us a call on the phone.

We're here to help!

INBIKEOU E bikes Help Center: <https://inbikeou.com/pages/service-center>

Or contact us from: [info@inbikeou.com](mailto:info@inbikeou.com)

Phone/whatsapp:+86 15106110895

Ceinwen Shao

## SECURITY

### WARNING:

Do not attempt to use this electric bike before reading and understanding the owner's manual. Wearing a helmet is mandatory. The use of this e-bike is at the owner's risk and INBIKEOU cannot be held responsible for damages of any kind, whether materials, immaterial or bodily that could result from its use. These electric bicycles are regulated by laws particular to the rider's locality and it is your responsibility to know the local laws before operating. This vehicle contains a throttle and a pedal assist system. It is classified as a CLASS TWO e-bike not to exceed 20 mph on city roads and many parks.

- Your Electric Assist Bike is designed for a total weight of 400lbs(including equipment, rider and luggage) on flat ground. Extreme climbing should always be with pedal assist by the rider.
- Do not leave your electric bike or its electrical components within the reach of children and animals.
- Do not dispose of the used battery in the trash.
- Do not apply pressure on the charger wire or plug. Do not stretch the thread, do not pinch it and do not put a heavy object on it. (Risk of electrocution or fire)
- Be sure to insert the plug into the wall outlet when charging.
- Do not touch the plug with wet hands.
- Do not use the plug or socket if they are dusty. Unplug and clean them with a dry cloth.
- To remove the power cord from the wall outlet, do not pull on the cord but on the plug. Always gently pull on the charging cord.

- Do not turn the pedals while the battery is charging and installed on the bike. The cord may wrap around the pedals or pedals and damage the plug with the risk of electric shock or fire.
- Do not use outlets, connectors, or other wiring devices with a different power source than recommended.
- Do not use items such as the charger housing, power cord, or plug if they are damaged. Replace them with original elements.
- When charging is complete, unplug the charger and then disconnect the battery from the charger.
- Respect the rules of the road. Some rules are different for ordinary bicycles and electric bicycles and may differ from one state to another.
- Wear a properly fitted helmet always.
- The use of long clothing or shoulder bag is dangerous (risk of contact with the wheels)
- **The bike is not designed to support 2 people, nor to make jumps.**
- Caution: on wet or snowy ground braking distances increase.

## ITEMS VERIFICATION

Each electric bike is assembled according to the strictest quality control standards. Each electric bike is tested by a technician inside the assembly plant to verify that the setting and each function of the bike are perfect.

### INCLUDED IN THE BOX:

Unpack bike from the carton and carefully set out all contents of the box. Remove packaging material protecting the bike frame and components. Please recycle packaging materials especially cardboard and foam (all #6 EPS foam). Ensure you have received the correct frame size before assembling the bike and that all pieces are included in the package including:

Raptor 48V 2000W E bike,

2A Charger,

Headlight,

Assembly toolkit,

Pedals,

Keys.

If there are any missing parts, please contact Ariel Rider E-bikes

# FINAL ASSEMBLY

Your bike is fully assembled in our factory and tested to our high standards.

To be shipped in a box of appropriate size to comply with different delivery networks, some basic parts of the bike are temporarily removed. Each part of the bike is packed properly so that it fits into the box safely and is delivered in perfect condition.

These simple instructions will show you how to do the final assembly. Your bike may arrive in a more assembled state than what is shown here. These are the steps required for most customers. Packaging and final assembly may vary.

Here are the main steps

- 1- Unpacking;
- 2- Identification of the parts that the final assembly requires;
- 3- Handlebar fixing by attaching to adjustable stem
- 4- Front wheel installation;
- 5- Fender and Front Light
- 6- Pedals

Necessary tools :  
Pair of scissors

Allen key (4mm,5mm).

Allen Wrench (17mm,19mm)

several zip ties



**We recommend using the INBIKEOU Electric Bike Tool Kit. It will facilitate your installation and maintenance.**

# UNPACKING

You will probably be very excited to unpack your brand new bike, but it is important to act with care because it is possible to accidentally damage the bike or to install some crucial parts badly. It can also be much easier to unpack and assemble the bike with the help of another person.

Remove the protective packaging from the bike carefully with a pair of scissors or a knife. Make sure you do not lose the components in the packaging (there may be a lot of protective packaging).



## **To note**

This key is placed in a small box and is securely strapped to the e bike Make sure you do not lose them as they are coded, and a replacement set can not be provided by E-cells.

# Main parts

After removing your bike from its shipping box, you should end up with these parts:

## 1. The electric bike



## 2.The handlebar



## 3.2A Charger



## 4.Pedals



# ***Installation process instructions:***

- 1. Put handlebars in, then tighten the screws , position our handlebars correctly, tighten all screws.**



- .2. Turn e bike upside down and pay attention to protect the screen like this.This is done to make it easier for one person to complete the installation**



**If you do not do this step, you cannot complete the installation by one person. The e bike is heavy. If you do not stand it upside down, you may need two people to install it together.**

- 3. Take off the nut protective cover**





**4. Please take off the shim before installing the front wheel firstly**



**5. remove the nut and the front gasket, insert the motor shaft into the hole, and rotate it tightly with a nut**

**6. finally plug the motor wire Arrow Align arrow.**



**7. Besides, if you find the controller wire is out due to the express rude delivery, please don't worry. We taped all the joints firmly with tape, and the force of transportation was not enough to loosen the joints. You just need to unplug the controller and wires and put them back into the tube, then close the lid.**



**Install video link**

[https://youtu.be/QACuEYW6z9Q?si=TEXSfgwse\\_xtj0k-](https://youtu.be/QACuEYW6z9Q?si=TEXSfgwse_xtj0k-)

Make sure the disk brake is well aligned to fit in the calipers and lock the lever to secure the wheel to the front fork.



Step 1



Step 2

## PEDAL

All bikes (including electric bikes) have left and right pedals. Make sure to identify each one of them. This image shows how to identify each pedal. The " R " (right) written on the pedal indicates that this is the right pedal to install on the right side of the bike (if you are sitting on the bike).



*Pedals are identified "L" (left) and "R" (right).*

# ATTERY INSTALLATION

To install the battery on the frame, insert it in the same way it was removed. It is necessary to use the key to install the battery. The base of the battery should be inserted first and pushed into the bike frame.

***It is very important to make sure the battery is locked before using the bike. Gently pull on the battery handle to make sure it is locked.***



## OPERATION OF THE TFT DISPLAY AND MOTOR POWER PAD.

### BASIC FUNCTIONS

Turn on the screen

Press " Power button " and hold for 3 seconds



|  |   |
|--|---|
| Turn on Front Light                    | Press + and hold for 3 seconds  |
| Increase the level of pedal assistance | Press "+" on power pad  |
| Decrease the level of pedal assistance | Press "- "on power pad  |
| To Activate Walking Mode               | Press and hold - the engine will activate and maintain a speed of approximately 3.75 mph until you release the - button |
| Reset trip counter to zero             | Hold + and - simultaneously for 3 seconds   |

## MOTOR POWER SWITCH: RED TOGEL SWITCH ON LEFT HANDLEBAR



When the togel switch is on "1": **FWD:FRONT WHEEL DRIVE**

When the switch is at "2": **AWD: ALL WHEEL DRIVE** dual motorbest performance and recommended for max power and efficiency.

(The motors and batteries run cooler, thus increasing efficiency.)

When the switch is at "3", **RWD: REAR WHEEL DRIVE ONLY**



### Note

Dual batteries support dual drive,  
single battery supports single drive.

## Programming functions on APT 750-C Bluetooth Dashboard Display

The advanced programming instructions are available on VIDEO and PDF on E-Cells.com

# IMPORTANT POINTS

For optimal use, please consider that important information.

### Mechanical safety check :

Check the condition of your bike regularly. Make sure that nothing has become loose. Make a visual inspection of the entire bicycle before each ride. Make sure the tires are properly inflated (about 8-30 PSI for the Super Monarch AWD 1500 Crown models). Also check your brakes.

### First ride :

To test your new electric bike, choose a place away from cars, cyclists and other potential dangers to safely familiarize yourself with the controls and features of the bike. Starting is much easier and faster than with a regular bike. Be careful these bikes are very powerful.

### **Damage to the chain :**

It is important not to change the speed of your bike on the derailleur when you are on the high power assist mode. You must first choose your speed on the mechanical derailleur and then you can use the electric assist mode. Changing the gear mechanically while the power assistance mode is high may cause serious damage to your bike chain.

### **Battery indicator :**

The battery indicator light is only an estimate of the battery charge. The battery charge level appears on the LCD screen. The best way to know that the bike is 100% charged is by charging it until the charger light indicates that it is fully charged (see next page).

Inversely, the only way to know that the battery is dead is to use the bike until the LCD screen turns off and does not turn back on. You can continue to pedal with assistance even after the last battery indicator bar begins to flash. You will not damage the battery by using it until the bike is completely shut down, but you will need to quickly charge the battery. Cells that remain empty can suffer irreparable damage. **So be sure to charge the battery after each ride.**

### **Keys :**

The keys are attached to your handlebars. You will have two keys of each battery so please keep one of each as spare part separately and carefully.

Key replacement is only done in the factory and to replace is costly.

### **Autonomy :**

The battery life is influenced by various factors. It is difficult to predict precisely the number of miles that can be traveled with your full batteries. By using it you will learn to know the capabilities of your bike. Pay attention to the following factors that can influence the distance you will travel with a battery charge:

- Weight (including weight of rider and load)
- Resistance (wind force, tire pressure, frequent braking or rubbing brakes)
- The conditions of the road (the floor covering, the climbs and descents)
- Driving (choosing the right speed, frequent changes in speed)
- The level of the pedal assist
- The temperature (intense cold or extreme heat can decrease the autonomy of the battery)
- The age of the battery

# CHARGING THE BATTERY

The battery can be charged on the bike or off the bike by following these steps:

1. Plug the charger into the wall outlet just like a laptop or phone charger.
2. Check that the charger LED is green.
3. Plug the charger into the battery plug carefully. Do not force it if there is an obstruction.
4. The charger LEDs should be red while charging.
5. Once the charger LED indicator changes from red to green, the battery is fully charged.

The charger stops charging the battery when it is full. There is no risk of overcharge.

Charging time can vary from 1 to 5 hours.

The battery should be charged at least once a month to keep the cells healthy.

The best way to charge your battery is to plug it in after each use and let it charge until the LED indicates that the battery is fully charged.



## WARNING

**At the risk of creating a short circuit and making your battery inoperative, use only the charger supplied by the seller. Do not insert anything else into the battery plug.**

# MAINTENANCE

A little extra maintenance is needed unlike a regular bike. One of the main things you may encounter is that your spokes need to be tightened more often than a non-electric wheel. Our wheels use spokes that are very powerful, but more sensitive to vibration.

In addition to paying attention to the tension of your spokes, it is important to periodically check all your screws and bolts, especially your rear suspension pivot points. Checking and tightening if necessary will allow you to have a bike safe and secure.

Keep your bike clean! There is nothing worse than having to work on a dirty bike ...

Do not forget the usual maintenance of bicycles, such as tire pressure, chain oiling, replacement of brake pads, etc.

The motor is a well sealed part and requires no maintenance during its service life.

Finally, it is important to charge the battery at least once a month to ensure that it maintains a safe level of storage. Charge the battery at least once a month if you are not using it and before each race if you have not charged it for more than a week. Leaving the battery pack flat can completely deplete the cells, which could lead to premature battery failure.

This program is indicative and depends on the actual use

## \*General maintenance program

|                  |  |
|------------------|--|
| Before each ride | <ul style="list-style-type: none"><li>- Check the tire pressure (about 10-30psi) fat bike models)</li><li>- Lightly oil the chain, being careful not to splash the disc brakes which could damage them</li></ul> |
| After 500 miles  | <ul style="list-style-type: none"><li>- tighten the spokes</li><li>- Change brake pads</li><li>- Adjust the derailleur</li></ul>   |
| After 1000 miles | <ul style="list-style-type: none"><li>- Change the rear tire</li><li>- Change brake pads</li><li>- Adjust the derailleur</li></ul>   |
| After 1500 miles | <ul style="list-style-type: none"><li>- Change front tire</li><li>- Change chain</li><li>- Change brake pads</li></ul>   |