

# VOYAGER



RADIUS PRO ELECTRIC BIKE

User's Manual

BIKE4050RP



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# SAFETY PRECAUTIONS

When using your Voyager Radius Electric Bike, basic safety precautions should always be followed, including the following:

## BEFORE RIDING

1. READ ALL INSTRUCTIONS BEFORE USING YOUR BIKE.
2. All riders should be at least 14 years old. Rider weight should not exceed 300 lbs.
3. To reduce the risk of injury, close supervision is necessary when the product is used near children.
4. Do not ride bike in extreme temperatures.
5. The bike is not to be used by children, the elderly or the infirm.
6. Never immerse the bike in water.
7. Do not leave the bike in high temperatures with direct exposure to sunlight.
8. Always wear a safety helmet, elbow pads and knee pads to avoid injury.
9. Wear suitable footwear when riding and keep shoelaces tied. Never go barefoot on the bike.
10. Never use the bike with more than one rider.
11. When charging the battery, only use the supplied charging cable included with your bike.
12. Do not disassemble bike parts.
13. Do not ride your bike if you notice any defects or irregularities. Contact the manufacturer or a certified technician immediately for support.

## WHILE RIDING

1. When riding your bike, follow local traffic laws.
2. Do not ride your bike while under the influence of alcohol or medication which can cause impairment.
3. Do not attempt to do any tricks while riding your bike.
4. Do not ride your bike over rough terrain, icy roads, or uneven surfaces. Furthermore, do not ride your bike while it is raining or on wet road conditions.
5. Ride carefully. Avoid applying the breaks abruptly. Take caution while turning and always keep your balance.
6. Practice riding in spacious areas at low speeds until you become more experienced and comfortable with higher speeds.
7. Do not use your bike at night or in areas of low visibility.
8. Always power off your bike when it is not in use.
9. Never allow more than one person on the bike at a time.
10. Do not ride near stairs, narrow passageways, bodies of water, or any gas, fire or flammable materials.
11. Keep your hands on the handlebar while riding, do not carry any items.
12. Avoid distractions! Never answer phone calls or attempt to send text messages while riding.
13. Consider using additional reflectors or similar portable lighting to maximize visibility.

**NOTE:** *The color and design of your bike may vary from the ones displayed in this user's manual.*

## **INSTRUCTIONS PERTAINING TO THE RISK OF FIRE OR ELECTRIC SHOCK**

1. Do not put fingers or hands into the product.
2. Do not use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.
3. This equipment is not intended to be used at ambient temperatures less than -20°C (-4°F) or above ambient temperatures of 45°C (113°F);
4. The battery is intended to be charged when the ambient temperature is between 0°C (32°F) and 45°C (113°F). Never charge the battery when ambient temperatures are outside this range.
5. Do not attempt to modify your bike in ways unintended by the manufacturer. If your bike is not working properly, do not attempt to fix it yourself. Contact the manufacturer or a qualified technician for service.
6. When charging your bike, only use the charger that came with your bike.

SAVE THESE INSTRUCTIONS

## **RECOMMENDED TEMPERATURES FOR USE**

1. Charging temperature range: 0°C-45°C
2. Operating temperature range: -20°C-45°C
3. Storage temperature range: -20°C-45°C

# MAINTENANCE

## **BRAKES**

Squeeze the brake levers. Make sure the brake levers are not too loose, and that you can apply full braking force on the levers without having them touch the handlebar. If you detect any problems with your brakes, contact a qualified repair person.

## **CONTROL CABLES**

Check the outer casing for kinks, stretched coils and damage. Check cables for kinks, rust, broken strands or frayed ends as well as stretched coils and damage. Replace any damaged cables before riding.

## **BEARING ADJUSTMENTS**

Make sure that the hub bearings are lubricated, run freely and display no excess movement, grinding or rattling. Have a qualified bicycle mechanic perform adjustments if you have any doubts.

## **WHEEL ADJUSTMENTS**

Spin each wheel. Make sure there is clearance between the wheel and the break, and that the wheels do not wobble from side to side. If you detect issues, take your bike to a qualified bicycle repair expert.

## **LUBRICATION**

Regularly add a few drops of grease (use grease specifically designed for bicycle chains) on the bike's chain as well as the brake calipers. Wipe any excess oil. Use a lithium based grease on the brake cables for best results.

## **REFLECTORS**

Before riding make sure all reflectors are securely attached to your bike. Never remove the reflectors, as they are integral for keeping you safe as you ride.

# INTRODUCTION

Thank you for purchasing your new Voyager Radius Electric Bike and welcome to the Voyager family. We hope that you'll do plenty of exploring on your new bike. Please enjoy your new bike responsibly and be sure to read the entire instruction manual before your first use. Have a blast, be safe and **Get Moving!**

## PACKAGE CONTENTS

- Voyager Radius Electric Bike
- Bike Seat
- Charger
- Tightening Tool\*
- User's Manual with Warranty Information

*\*Use the tightening tool to keep the fenders securely in place. Check to make sure all parts are securely attached and in good condition before riding.*

## SPECIFICATIONS

### HARDWARE

**Motor Power:** 450W Rated/500W Max

**Charging Time:** ~5 hours

**Battery Specifications:** 48V/7.5AH Lithium-Ion

**Display Type:** Digital LCD Display

### PERFORMANCE

**Max Speed:** ~24-25 MPH

**Max Load:** 300lbs.

**Max Climbing Ability:** ~30°

**Max Range:** Up to 18 Miles

### GENERAL

**Solid Tire Size:** 16 In. Pneumatic

**Weight:** 42 lbs.

**Brakes:** Rear Mechanical Disc Brake

**Suspension:** Cushioned

**Folded Size (L/W/H):** 28/13.3/ 27.3 inches

**Unfolded Size (L/W/H):** 53.5/15/42.5 inches

**NOTE:** Specifications may vary depending on the size of the rider, weather conditions and road conditions. For peak performance, make sure that your bike is properly maintained.

# A QUICK LOOK



1. Front Tire

2. Headlight

3. Stem Quick Release

4. Handlebar

5. Seat Clamp

6. Seat

7. Stand

8. Reflector

9. Charging Port

10. Rear Fender

11. Shock Absorber

12. Chain

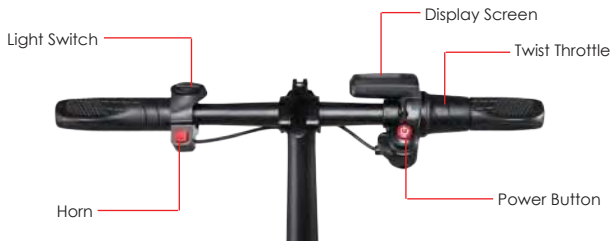
13. Foot Pedal

14. Front Fender

15. Kick Stand

16. Frame

17. Handbrake



## ASSEMBLY GUIDE VIDEO

For more information on assembling and using your bike, scan the QR code below for additional video tutorial content.



# ASSEMBLY

## 1. UNFOLDING THE BIKE

Unfold the Radius Pro E-Bike and lock the latch in the center of the bike frame. Make sure the connecting wires are recessed into the pass-through holes to ensure that the wires don't get pinched when locking the Frame in the unfolded position.



## 2. CONNECTING THE HANDLEBARS

Insert the handlebar stem into the recessed hole above the front wheel and lift the handlebar up into the upright position before pressing down on the latch, locking the handlebar in place.

Line up the handlebar and front wheel so that the front wheel is aligned with the back wheel and the handlebar is perpendicular to the front wheel. Then unlatch the handlebar and fold the handlebar down to reveal the locking bolt. Tighten the locking bolt securely using the larger Allen key tool provided.

Next, lift the handle into the upright position and lock it in place by pressing down on the lever until it snaps closed.





## ASSEMBLY (continued)



### 3. ATTACHING THE SEAT

Loosen the seat angle bolt using the provided wrench tool and adjust the seat to a comfortable upright position. Then tighten the seat angle bolt, locking the seat position securely.

When the seat clamp is loosened, you can attach the seat to the body of the bike, or remove it. You can also adjust the height of the seat for a more comfortable ride.

Once the seat is attached to the bike at the height of your choosing, close and tighten the seat clamp so that the seat stays securely in place.

NOTE: You can twist the pin on the seat clamp to tighten or loosen the clamp tension to ensure the seat height is locked securely in place.

### 4. ASSEMBLY COMPLETE



# CHARGING THE BATTERY

Before riding your bike, be sure to charge the battery. To do so, follow the steps below:

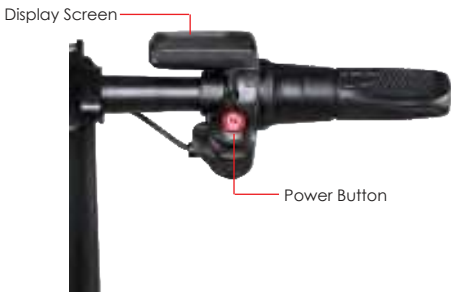
1. Remove the rubber gasket covering the charging port, and then connect the charger.
2. Plug your charger into a suitable power outlet.
3. The LED light on the charger turns **RED** while the battery is charging, and turns **GREEN** when charging is complete.



## NOTES:

- Please charge the battery for at least 5-8 hours before first using.
- To maximize the lifespan of the battery, unplug the charger once the battery is fully charged.
- The charging port has a rubber cover. Make sure that the port is covered after charging is complete in order to protect the port from dirt and debris.
- Make sure to charge the battery at least once per month.
- Do not power on the bike while charging the battery.
- Only use the supplied charger. Do not use the charger if it becomes damaged. Contact the manufacturer for further support.

# POWERING ON/DISPLAY SCREEN



## POWERING ON

Before powering on your bike, make sure that the battery is fully charged, and make sure that the tires are properly inflated.

Press and hold the power button to power on or power off your bike.

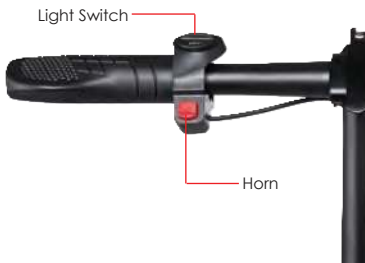
## DISPLAY SCREEN

The display screen will show you a power meter which will let you know how much power remains in the battery. Be sure to charge the battery regularly.

The display screen will also show you the speed at which you are traveling.

# BIKE FEATURES

Once your bike is powered on, you can access the below features:



## LIGHT SWITCH

Slide the light switch to the ON position to turn on the front headlight, helping you see more clearly, and also making your bike easier to be seen. Slide the light switch to the off position to turn off your headlight.

## HORN

Press the horn button in order to sound the bike's horn. Use the horn sparingly, most frequently in situations that maximize safety.

## HANDBRAKE

Squeeze the handbrake when necessary in order to reduce your speed. Avoid abrupt braking at high speeds in order to ensure safety and lengthen the life of your bike's tires.



*Squeeze the hand brake on the right handlebar to decelerate or come to a complete stop in all modes.*

# BEFORE YOU RIDE

Before riding, it is important to check that your bike fits properly. Riding a bike that does not fit properly can endanger the rider and increase the possibility of a serious accident or injury. If your bike does not fit properly, please contact the place of purchase to replace your bike with a model that fits.

## APPROPRIATE FRAME HEIGHT MEASUREMENT

To ensure the safety and comfort of the rider, there should be a minimum clearance of 1 inch between the top tube of the bicycle and the rider's crotch while the rider straddles the bicycle with both feet flat on the ground. Women can use a men's style bicycle to determine the correct clearance measurement for a women's style bicycle.

>1 INCH .....



# RIDING YOUR BIKE

## MANUAL

Power off your bike to use it in manual mode. To accelerate, simply pedal the bike with your legs and feet. Squeeze the hand brake on the left handlebar to decelerate or come to a complete stop.

## PEDAL ASSIST

Power on your bike to access pedal assist mode. To accelerate, pedal the bike with your legs and feet. If you need additional assistance, twist the throttle on the right handlebar for extra speed. Squeeze the hand brake to decelerate or come to a complete stop.



*Use the foot pedals to accelerate in manual or pedal assist modes.*

## FULL ELECTRIC

Power on your bike to access full electric mode. Twist the throttle on the right handlebar, allowing the bike to provide full power. Squeeze the hand brake to decelerate or come to a complete stop. Press the button on the display screen to alternate between three different full electric speed modes.

### **Electric Speed Modes**

Mode 1: Slow

Mode 2: Medium

Mode 3: Fast



*Twist the throttle on the right handlebar to accelerate in pedal assist and full electric modes.*

# CARE & MAINTENANCE

## MAXIMIZING RANGE

Your bike has a maximum range of 18 miles on a fully charged battery. However, there are several factors that can reduce the maximum range including the following:

**Rider Weight:** Your bike is suitable for riders 300 pounds and under. However, heavier riders require more power to carry, and thus cannot ride as long.

**Surface and Weather Conditions:** To maximize range, ride on smooth, flat surfaces in clear, dry conditions.

**Temperature:** Extreme temperatures effect the performance of the battery.

**Maintenance:** When riding, make sure that your bike is in good condition, and that the tires are properly inflated and maintained.

**Riding Style:** To maximize the battery, avoid sudden stops, as well as frequent starting and stopping.

## KEEPING YOUR BIKE CLEAN

Clean your bike with a slightly damp cloth, and make sure that it is completely dry before using. Do not use harsh chemicals or detergents to clean your bike, and never submerge your bike in water.

## BATTERY MAINTENANCE

Keep your bike and its battery away from excessive heat, fire, flames, physical shock or excessive water or moisture. Do not attempt to repair your bike yourself. If your bike is in need of service, contact the manufacturer or a qualified repair technician.

## TIRE MAINTENANCE

Check the tire pressure regularly. Both your front and rear tires should have a pressure of 2.8 Bar (~40psi). Contact a qualified bicycle repair technician familiar with electric bike maintenance to replace your tires.

## STORAGE

Always store your bike in a cool, dry place. Keep your bike away from dust and debris. For best results, be sure to charge your bike's battery at least once each month. Do not charge your bike in cold environments below 50°F.

## LOCAL LAWS

Prior to purchasing any motorized vehicle, we highly recommend that you research your local regulations and country-specific laws. Ultimately, you are responsible for complying with all applicable laws and regulations. Voyager waives all liability relating to your use of Voyager products.

# NOTES

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# FCC COMPLIANCE

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# WARRANTY

This warranty covers the original consumer purchaser only and is not transferable.

This warranty covers products that fail to function properly UNDER NORMAL USAGE, due to defects in material or workmanship. Your product will be repaired or replaced at no charge for parts or labor for a period of one year.

## **What Is Not Covered by Warranty**

Damages or malfunctions not resulting from defects in material or workmanship and damages or malfunctions from other than normal use, including but limited to, repair by unauthorized parties, tampering, modification or accident.

## **To Obtain Warranty Service and Troubleshooting Information:**

Call (877) 444-0345 in the U.S. or visit our website at [www.ridevoyager.com](http://www.ridevoyager.com).

To receive Warranty service along with the name and address of an authorized product service center, the original consumer purchaser must contact us for problem determination and service procedures. Proof of purchase in the form of a bill of sale or receipted invoice, evidencing that the product is within the applicable Warranty period(s), MUST be presented in order to obtain the requested service. It is your responsibility to properly package and send any defective products along with a dated copy of proof of purchase, a written explanation of the problem, and a valid return address to the authorized service center at your expense. Do not include any other items or accessories with the defective product. Any products received by the authorized service center that are not covered by warranty will be returned unrepared.

The logo for VOYAGER features a stylized 'V' on the left, composed of two overlapping curved shapes in white and light blue. To the right of the 'V', the word 'VOYAGER' is written in a bold, white, sans-serif typeface.