



2020 RECON Scout Power Bike

OWNERS MANUAL

This manual contains important safety, performance and service information. Read it before you take the first ride on your new Recon Power Bike and keep it for future reference

INTRODUCTION

Congratulations on the purchase of your new Recon Power Bike! We want to make you happy and believe your new e-bike will bring you lots of fun.

We ask that you, please, read this manual thoroughly, paying particular attention to the safety warnings before you start riding your bicycle.

Please, observe traffic regulations and do not lend your bicycle to anyone unfamiliar with it. It can only be legally used on the road by a person aged 14 years and older. Recon Power Bikes are not designed for use by children. If you decide to use a child carrier, a child must be wearing a helmet and seated by the carrier manual.

We strongly advise wearing a bicycle helmet, eye protection and padded gloves at all times when using your e-bike. If you are unfamiliar with cycling, we suggest taking a cycling proficiency course before using your bicycle.

Remember that this manual makes no representations about the safe use of bicycles under all conditions. There are risks associated with the use of any bike which cannot be predicted or avoided, and which are the sole responsibility of the rider.

Before you ride your bike for the first time, please, make sure it is correctly assembled. You can do this either by taking it to your nearest bicycle shop or by inspecting it yourself if you are proficient in bicycle mechanics. You must make sure you have the pedals, saddle, handlebar, and other items correctly fitted.

Test your brakes every time before using the bicycle and remember the bicycle will not stop as quickly in wet or icy conditions as it would on a dry road.

Frequently check your tire pressure. The required tire pressure level is indicated on the side of each tire. Low tire pressure will result in damage to the tires and will massively reduce your speed and range.

NEVER drink alcohol and ride your electric bike. The use of alcohol significantly reduces reflexes and limits your ability to ride safely. Even a small amount of alcohol limits your ability to be safe on the road.

Please, note that small details or components may vary as we continuously update our product throughout the year. This does not affect basic installation and assembly.

Recon cares for the environment and encourages its customers to dispose of Recon products per local regulations. When you need to dispose of a lithium-ion battery, please dispose of the unwanted battery through an approved recycler.

OPENING YOUR BICYCLE

Recon Scout folding Power Bike is shipped 98% assembled in a box that contains the following items:

- Main body of the electric bike consisting of:
 - Frame
 - Front wheel with a front suspension fork
 - Rear wheel
 - Tires & tubes installed and partially inflated
 - Drivetrain
 - Brake and shifter systems
 - Handlebar subassembly (connected to the main body by the brake/shifter cables and electrical wires)
 - Front and rear fenders along with a rear rack
- Electric System consisting of:
 - Battery (inside the frame)
 - Rear hub motor
 - LCD Power Assist Display
 - Thumb Throttle
 - Pedal Assist Sensor
 - Internal controller (inside the frame)
 - Wire harnesses
 - Front and rear lights
- Seat (or saddle) attached to the pedestal stem
- Bell
- Kickstand
- Pedals (2)
- Battery charger (in a separate box)
- Battery keys (2)

After unpacking, please, do not discard the box and protective material until you test the bike and make sure it is in good working condition. Should you discover missing items, concealed loss or damage, report it to your dealer immediately.

STRUCTURE OF YOUR E-BIKE



NOTE: You can find the serial number printed on the bottom bracket housing behind pedal crank arms. The regular format is AA0000A0000.
The removable battery and controller are located inside the frame.



MAIN SPECIFICATIONS

BIKE	
Weight (incl. battery)	60 lbs.
Max Capacity	300 lbs.
Dimensions	Unfolded: L65 ¹ x H45 ¹ x W24 ¹ ; Folded: L38 ¹ x H29 ¹ x W20 ¹
Max Speed	20 mph
Full Charge Distance	up to 30 miles (depending on terrain and rider's weight)
Climbing Grade	≤ 15%
Pedal Assist System	Thumb Throttle Control & 5 Level Pedal Assist
Frame	Aluminum Alloy Frame Foldable Design
Wheels	20" Magnesium Alloy Wheels
Tires	20" x 4" Kenda Krusade sport
Seat	Velo Seat
Brakes	Front/Rear: TEKTRO 180 Rotor Disc Brakes
Gearing	7-speed Shimano or Sharm shifter and derailleur
Accessories	LCD Display, Front/Rear Lights
MOTOR	
Description / Power	MXUS 500W Rated with 750W Peak Rear Brushless Geared Hub Motor
Max Riding Noise	60 dB
Rated Efficiency	80%
BATTERY	
Type	Samsung 18650-Cells Lithium-Ion
Voltage	48V
Capacity	11 A
CHARGER	
Input Voltage	110-220 V
Charging Time	4-6 hrs.
How to Charge	Direct charge: Connect a plug with a plug receptacle

ASSEMBLY

NOTICE: The following assembly steps are only a general guide to assist in the assembly of your Recon bike and are not a complete or comprehensive manual of all aspects of assembly, maintenance, and repair. We recommend you consult a certified bicycle mechanic to assist in the assembly, repair, and maintenance of your bicycle.

Recon Scout is shipped 98% assembled. To fully assemble the bike and prepare it for the first use, follow these steps:

STEP 1: UNPACK

- Place the box on the floor as per “This Side Up” sign on the side of the box.
- Prepare the following tools: scissors/cutter, adjustable wrench, and hex key set.
- Open the box by cutting protective tape or straps. If the box has staples on the top fold, be cautious when opening as they may be sharp.
- Remove the bike out of the box by holding onto the frame (in case the bike is too heavy to pull out of the box, ask someone for assistance).
- Stand the main body of the electric bike on a kickstand.
- Remove all protective material. Be extra careful when working with the scissors/cutter to avoid scratches.

NOTE: Do not discard the box or any shipping material until you test the bike and make sure it is in good working order.

STEP 2: INSTALL HANDLEBAR & SEAT

With the bike resting on the kickstand, unfold the folding pipe and lock it as shown on page 11. Make sure the folding pipe locking lever is tightened, and the safety clip ring is in place.

Follow instructions on page 10 to adjust the handlebar position and height. Adjust the seat height. Make sure the quick-release clamps are properly tightened.

STEP 3: INSTALL PEDALS & INFLATE TIRES

To attach pedals, begin by identifying the right and left pedals. Look for “L” and “R” marking on the axles, wrench flats, or stickers. If you do not see “L” and “R” markings, use pedal thread direction to identify pedals. Left threaded pedals (threads sloping upward to the left) go to the left crank. Right threaded pedals (threads sloping upward to the right) go to the right crank. See the image if in doubt (Left: left-hand threads on the left pedal. Right: right-hand threads on the right pedal).



Be sure to grease the pedal threads before installation. Choose the appropriate pedal and start it into the correct crank arm by hand turning the pedal axle toward the front of the bike (both pedals thread in this direction). If it does not start, do not force it! You are probably trying to install the left pedal on the right side or vice versa. Thread both pedals into the crank arms as far as you can by hand. Then fully tighten them with a wrench, so they do not loosen from pedal pressure. Be careful NOT to overtighten the pedals as it may cause difficulties with their removal in the future.

Inflate the tires to the proper pressure. You can find the information about the required tire pressure level on the side of each tire. Make sure to check the pressure before each ride as low tire pressure results in damage to the tires and massively reduces speed and range.

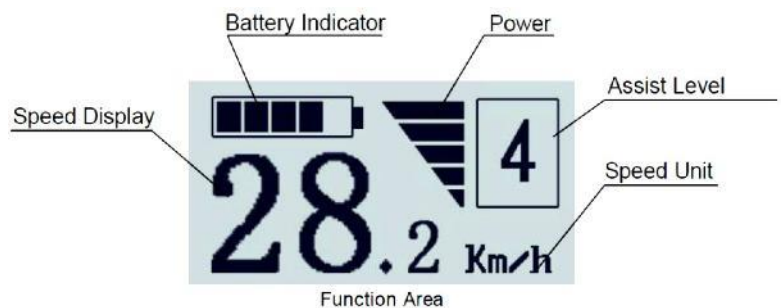
STEP 4: FINAL PRE-RIDE CHECK

- Check all nuts and bolts and make sure they are properly tightened, paying particular attention to the front wheel axle nuts, rear wheel axle nuts, kickstand, yoke, and steering head bearings.
- Check the folding lever for the frame (see page 11 for more details).
- Check the folding lever for the handlebar pipe.
- Test the brakes.
- The battery is pre-installed inside the frame. Make sure it is properly locked in the frame. Lock it with a provided key — place keys in a safe spot.
- Turn on the LCD Display on the handlebar as per instructions on pages 3-5. Make sure the battery is fully charged, wear a helmet and... continue reading this manual thoroughly, paying particular attention to the safety warnings before you start riding your bicycle.

For your safety you need to understand how things work on your bicycle and make certain, all parts are correctly assembled. We urge you to consult your dealer before the first use and have your dealer check your work before you ride the bike. If you have even the slightest doubt about your knowledge or bike's assembly, talk to your dealer.

LCD

Recon Scout comes with the multifunctional LCD power assist display. The display is mounted on the left side of the handlebar and has three main buttons (M, -, +), and a monitor.



ON/OFF

By pressing the M button for a couple of seconds, the display turns on and activates the power supply. To turn off the display and deactivate power supply to the bike, long press M button down. When the bike is not in operation, and no buttons are pressed for 10 minutes, the display will automatically turn off. When E-bike system is switched off, the leakage current is less than 1 μ A.

DISPLAY CONTENT

- **Pedal Assist System (PAS) – Level selection**

Recon Scout comes with 5 levels of pedal assistance. To change the PAS level, click (+) or (-) buttons to increase or decrease the levels. Every time you turn on LCD, it will automatically restore the most recent level. For your safety and to avoid accidental use of the throttle, make sure to keep the LCD turned off at all times when the bike is not in use.

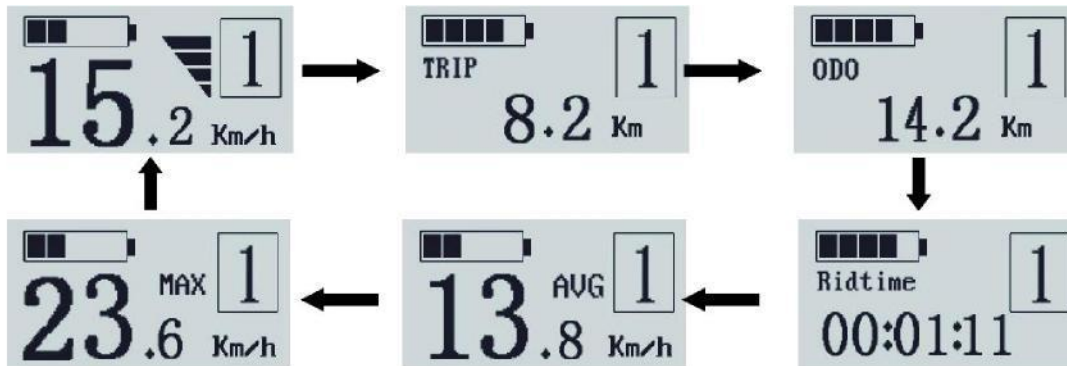
- **Walk Power Assist and lights**

Riders can use up to 6 km/h power assist function when pushing the bike. Hold (-) button to activate the Walk Power Assist function. P letter will appear on the screen and the bike will start moving 6 km/h. Release (-) button to exit Walk Power Assist function. **Press and hold (+) to turn lights on. Repeat to turn lights off when finished using the lights.**



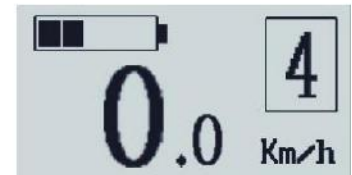
- **Speed**

After the e-bike system is switched on, the display shows current speed by default. To change the indicating information, press **M** to show in turn: Current Speed (Km/h) - Trip Distance (Km) - ODO (Km) - Trip Time (Hour) - Average Speed (Km/h) - Max Speed (Km/h). Each state will display for 2 seconds and then automatically returns to current speed interface. If the display is set to miles, the data will be presented respectively.



- **Battery Capacity Indicator**

When the battery is fully charged, the icon shows five full bars on the top left corner of the display. When the battery is low on charge, the indicator starts flashing.



- **Power**

The output power of the motor is indicated in the middle of the interface.



- **Error Code Definition**

When the electric control system of the bike is out of order, the display automatically displays the error code and stops working correctly. The reason for the error is shown in the error code definition table below.



Error Code	Definition
21	Current Abnormality
22	Throttle Abnormality
23	Motor Phase Abnormality
24	Motor Hall Signal Abnormality
25	Brake Abnormality
30	Communication Abnormality

- **FAQ**

Why does the display not turn on? Check the connections between the display wire harness and the controller. Unfold the bike. Make sure the battery is charged.

The display shows an error. What to do? The error code will disappear once the issue associated with it is resolved. Check bicycle components and wires for any signs of damage. Disconnect and re-connect main wire harness at the handlebar, recharge battery, and check LCD again. Contact your dealer for further instructions.

THROTTLE

Recon Scout is equipped with a throttle that allows to speed up to 20 mph without pedaling at all. The thumb throttle is mounted on the left side of the handlebar.



The throttle is activated once the LCD Display is turned on. To use the throttle, slowly press its lever with your thumb to apply power to the motor. The throttle provides smooth acceleration when applied gradually.

The throttle mechanism allows full power to be activated from a stop, and inexperienced users should take extra care when first applying the throttle. We recommend beginning the ride with pedaling first and then applying the throttle.

Always be aware of your surroundings. Do not use the throttle unless you are on the bike. As a precaution, turn off the LCD after riding to avoid accidental activating of the throttle or PAS.

PEDAL ASSIST SYSTEM (PAS)

A pedal assistance feature is a powerful option, and users must understand how to operate it before the first ride.

Recon Scout offers five levels of cadence PAS. The cadence sensor is attached to the bottom bracket behind the left pedal crank arm. Switching from level 0 to 1 activates the pedal assist sensor. As soon as the pedals start rotating (with PAS level 1-5), the sensor catches the signal and turns on the motor to provide a cyclist with an appropriate amount of power. The higher the level of PAS, the more power it provides. The electric motor assists up to 20 mph and cuts out if pedaling faster than that.

It is recommended to pedal the bicycle with the Pedal Assist System mode ON, choose appropriate gear, refrain from unnecessary braking, and coast as much as possible. When riding your e-bike with the low battery power, it is recommended to pedal your e-bike as much as possible and get the battery charged up as soon as you get to an electrical outlet.

As a precaution, switch PAS level to 0 or turn off the LCD after riding to avoid accidental activating of the throttle or PAS.

BATTERY & CHARGER

BATTERY

Recon Scout is delivered with the battery pre-installed inside the frame and partially charged. A charger is shipped in a separate box. A unique set of keys is provided. A lock keeps the battery in place and provides safety from theft.

To check the battery charge level, long press the button on the battery until the color light up (green = top charge, red = low charge, or blue = mid charge) or use the charge indicator on the LCD Display.

The battery is removable and can be charged either inside or outside of the frame. To charge the battery when it remains installed in the frame, open a side rubber cover (on the left side of the frame, see image) to access the charging port. To remove the battery and charge it outside of the frame, fold the frame, insert the key into the lock, turn the key to unlock and slide the battery out.

When installing the battery back into the frame, do not force it in! Slowly insert the battery while making sure the bottom portion of the battery aligns with the internal rails (see image). Push the battery slowly into the frame until it is seated and properly locked.



NOTE: The keys are to unlock the battery only. Turning the key DOES NOT act as the ignition for the battery or motor. Keep in mind that RECON does NOT carry copies of the keys. It is recommended to store one key in a safe location in case the first key is lost.

BATTERY CHARGER

Always use the charger provided by Recon for your specific bicycle and battery type. The charger works on 110/220V 50/60Hz standard home AC power outlets. If you plan on moving from the USA, double-check the charger specifications and the local standards.

CHARGING PROCEDURE

- 1) Place the charger and battery indoors in a dry ventilated area away from sunlight with the temperature 50-80F.
- 2) With the battery inside or outside of the frame, locate the charging port on the left side at the top of the battery pack.
- 3) Connect the AC input plug into the outlet. The LED light on the charger should turn GREEN (Charge).
- 4) Connect the DC output plug from the charger to the battery port. The LED light on the charger should turn RED (Charge in the process).
- 5) When the battery is fully charged, the LED light on the charger should turn GREEN (Fully Charged).
- 6) Unplug the charger from the battery first and then from the outlet.

While the charger automatically stops charging when the battery is full, we strongly recommend not to leave the battery connected to the charger and outlet for a lengthy period. The average time for charging from low to full is approximately 4 to 6 hours. As the battery ages after 2-3 years of use, you may notice increased charging times and decreased range. If the battery does not seem to be charging, as usual, discontinue charging/using it and contact Recon or dealer for assistance.

BASIC BATTERY CARE & MAINTENANCE

- **Keep your lithium battery charged**

Lithium batteries are generally best kept 70% charged. Do NOT use your battery in a very low state. Completely discharging a lithium battery below safe levels can cause irreparable damage to the cells and diminish its capacity. If you do "flatten" your battery, fully re-charge it as soon as possible. To prevent the battery from irreparable damage, never leave a battery wholly depleted or drained.

- **Keep your electric bike battery clean and dry**

Contacts on the battery should be clean and dry to avoid oxidation and corrosion, which would weaken the ability of the battery to power the bike. Check the contacts every few months.

- **Keep your lithium batteries cool**

The lithium battery is best stored in cool conditions. While storing batteries in cool conditions is good, always remember to warm the battery to room temperature before charging or using it in the bike.

- **Plan for long-term storage of your electric bike**

If you know you are not going to use your battery for a few months, it is wise to take some extra precautions. To reduce the loss of capacity over time, yet still preserve the battery, it is best to store it at about 70% charge. You can estimate this by riding your e-bike for about 30% of the average distance with a fully-charged battery. It's best then to store the battery in a cool well-ventilated place. To prevent premature failure of your battery and for the warranty on your battery to remain in effect, it is recommended to charge the battery at least once per month.



IMPORTANT SAFETY WARNINGS!

- Connect the charger to the outlet first, and then to the battery. Connecting the unplugged charger directly to the battery may create a spark.
- While charging, place the battery and charger in a secure place where children or pets cannot reach it.
- Avoid any contact with water while charging; prevent liquids, metal, and metal filings from permeating the charger.
- Do not put anything on top of the charger while charging; it must be well ventilated to allow the heat that is generated to dissipate.
- Stop charging the battery immediately if you notice a peculiar smell or the charger gets too hot to touch.
- Do not touch the poles of the battery. The battery poles should not be touched with any other metal or other material that conducts electricity.
- Be careful not to drop or hit the battery or the charger as it may damage its components.
- It is normal for the distance range to reduce as a result of cells aging or battery use in low or high temperatures.
- Do not attempt to open or repair your charger or battery. Doing so voids the warranty and can result in a safety hazard. Contact your local Recon Bike Dealer or Recon technical support.
- When you need to dispose of a lithium-ion battery, either dispose of the unwanted battery through an approved recycler.
- Never dispose of batteries in fire because they may explode.

BRAKES

Recon Scout has a mechanic disk brake system installed on both wheels, front and rear, to control the braking of the bicycle. The system has an electrical cut-off function, an important safety feature of all Recon Power Bikes. It disengages the motor when the brake levers are squeezed. Therefore, it is critical to make sure the brake system works properly.

Brake Precautions

- Test your brakes every time before using the bicycle and remember the bicycle will not stop as quickly in wet or icy conditions as it would on a dry road.
- The brake system requires regular cleaning, maintenance, and adjustment. Have your brakes inspected and serviced regularly by an experienced mechanic (every six months to a year should be sufficient for occasional cyclists). Take your bike in more often if you ride or use brakes frequently.
- Remember which wheel is controlled by which brake.
- Do not brake too strongly or abruptly, as it will make it easier for you to fall.
- Incline your body backward to reduce the influence of inertia.
- The brake system includes brake pads which gradually wear down due to normal use. When the brake pads wear out, repair or replace them as soon as possible.
- Over time disc brakes lose some of their effectiveness. This leads to longer response times, less efficient braking, and less bike control. If you start experiencing such issues, hear a squeaking noise when braking, lack stopping power, refrain from using the bike and bring it to a local bike shop for inspection & service.

DRIVETRAIN & GEARS

The drivetrain of the bicycle consists of all parts that you use to push or pull the bike along. The key components are the pedals, cranks, chain, freewheel, gear shifter, and rear derailleur.

Gears are there to enable you to maintain a comfortable pedaling speed (or cadence) regardless of the gradient or terrain — something that single gear is not capable of.

EPIK CARBON comes with seven (7) gears. To change the gear while riding, press + or – of the shifter on the right side of the handlebar until you reach your desired gear. The gears are switched by the rear derailleur located on the right side of the rear wheel. The derailleur moves the chain up or down the freewheel setting it to the desired gear.

- The gear setting is displayed on the shifter. The higher the gear number, the more resistance is given when pedaling.
- The combination of pedaling and gear effects the battery range when riding with pedal-assist. If you are riding uphill or in the areas where it becomes difficult to pedal, shift to a lower gear. If you find that you are moving faster than you can comfortably pedal, try moving to a higher gear. This will help conserve battery power and achieve comfortable pedaling.
- It is easier to start riding if the bike is set to a lower gear.
- If you experience “skipping” of gears, noisy switching, bring the bike to an experienced mechanic for adjustment.
- Keeping your derailleur, chain, and freewheel clean, lubricated, and moving freely will expand their service life and avoid costly repairs.
- If you need to service the pedals, follow instructions on page 3 for their removal and installation.

SEAT & HANDLEBAR

Appropriate adjustments can be made to seat (or saddle) & handlebar height according to personal preference.

QUICK-RELEASE CLAMP

The clamps that hold handlebar or seat posts in place are called quick-release clamps. If you need to tighten or loosen the clamp, use an adjustment knob located on the opposite side from the quick-release lever. Open the lever and turn the adjustment knob clockwise. As you tighten the adjustment knob, you'll be able to close the lever more securely. In case you tighten the knob too much, you won't be able to close the lever at all. Repeat this process until you find a "happy medium" point where the lever is tight enough to hold the post, but not so tight that you cannot close the lever all the way.

MAX MARK LINE

When adjusting the height of the seat or handlebar posts, it is forbidden to expose the MAX mark line (also called, the safety line or infix notation). If used inappropriately, it may cause serious injury to the rider.

SEAT HEIGHT ADJUSTMENT

Stand over the frame and sit on the saddle. Step on the pedal with your heel. Rotate the pedal to its lowest position while straightening the leg. The height is best suited when the leg is straightened out with a slightly bent knee. If the leg is excessively bent, raise the seat. If your knee is fully extended, lower the seat.

To do so, unlatch quick-release lever on the seat tube and move vertical stem to appropriate height, making sure not to exceed the safety MAX mark. Point the front tip of the seat towards the handlebar along the frame. Close the quick-release lever while making sure it's tight enough to keep the seat post in place.



SEAT POSITION ADJUSTMENT

The seat should be at a neutral position allowing the rider to sit on the middle portion of it without sliding forward onto the nose or backward off the rear of the saddle. The seat position can be adjusted by loosening the seat clamp under the seat and sliding the seat forward or backward. Be sure to loosen the clamp only enough to move the seat. You may need to test-ride the bike with the new adjustment several times until you make sure this seat position is the most comfortable.

HANDLEBAR ADJUSTMENT

Similar to the seat, handlebar height can be adjusted to achieve a comfortable riding position. To do so, unlatch quick-release lever on the folding pipe and move vertical stem to appropriate height, making sure not to exceed the safety MAX mark.

If you wish to adjust handlebar position, loosen the top quick-release clamp in the middle of the handlebar. Rotate the handlebars so that the brakes are at a 45-degree angle to the ground. Tighten the lever.

Check to ensure the handlebar, handlebar folding pipe, and seat post are properly fastened, aligned, and fitted to the user. Ensure all hardware securing the handlebar and seat is properly tightened, including quick-release levers.

FOLDING INSTRUCTIONS

FRAME

The frame locking lever is located in the mid portion on the right side of the frame. To unlock the lever and fold the frame, slide the bottom lock (pin)* towards the front of the bike and pull the locking lever away from the frame. When unfolding the frame, push the lever against the frame until the lock (pin) clicks and secures the frame.



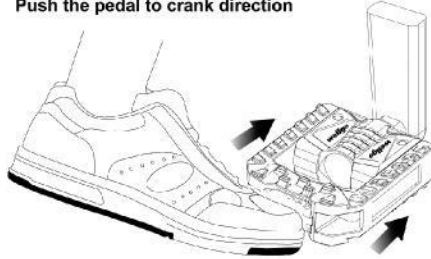
**If the bottom lock (pin) does not move, try pushing the lever against the frame first and simultaneously moving the bottom lock towards the front.*

WARNING! When unfolding the frame and locking the lever, (closing) always make sure the internal wires are out of the way!

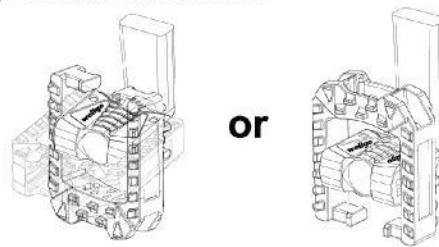
PEDALS

Fold the pedals by pressing the end of the pedal inward and then upwards or downwards.

1 Push the pedal to crank direction



2 Folding the cage up or down



FOLDING PIPE

To unlock the pipe and fold it, locate the locking lever at the base of the pipe. (1) Slide the safety clip ring out and away from the lever; (2) pull the locking lever out and down towards the floor. Complete the action by folding the pipe down at the hinge.

When unfolding the pipe, (1) unfold the pipe and align it with the base. (2) Align the silver bolt with a round notch on the inner side of the latch. (3) Pick up the lever and push it against the pipe until it is safely locked. (4) Complete the action by inserting the safety clip ring into or around the lever.



COMPLETE BIKE FOLDING PROCEDURE: 1) turn off the LCD, 2) fold kickstand along the frame; 3) fold both pedals, 4) lower seat post to minimum or remove it completely, 5) fold handlebar folding pipe along front wheel, 6) fold frame, 7) stand bike on stand (located under the bottom bracket/pedals), 8) (optional) use bungee cords to secure the bike from unfolding.

GENERAL OPERATION & MAINTENANCE

Like any other mean of transportation, Power Bike and its components are subject to wear and tear. When comparing to regular bicycles, the rate of wear for electric bikes is higher due to its weight and speed; it does not mean the components are defective or of low quality. The rate of wear depends on the way of use (mileage, terrain, weather conditions, etc.), as well as level of care and maintenance.

The use of a bicycle in competitive events, aggressive riding, riding on severe terrain/climates, riding with heavy loads, commercial activities and other types of non-standard use can dramatically shorten the life of the bicycle and its components. Be sure to use your bicycle for its intended purpose only.

- Always follow the instructions described throughout this manual and abide by local regulations.
- If you have the slightest doubt about your knowledge about the bicycle, its assembly or operation, visit the local dealer.
- Have the bike inspected by a professional mechanic after the first 60 miles of riding and every 300 miles.
- Wheel spokes should be adjusted every 300 miles of riding.
- Keep your lithium battery charged, dry, and stored in cool conditions.
- Handlebar and saddle posts should never be raised beyond the maximum safety line.
- Your bike has a rear derailleur that will automatically tension your chain. However, if the chain becomes loose or frequently comes off the front cog, you can adjust the chain tension by loosening the rear axle nuts slightly and adjusting the tension bolts. Make sure the chain runs freely and retighten the axle nuts.
- Disc brake calipers, rotors, and brake pads get extremely hot after bike use. Do not touch these parts after a ride and be sure to allow some time for the brake system to cool down before attempting service.
- Bell and reflectors are important safety cycling devices. Check reflectors and their mounting brackets regularly to make sure they are clean, straight, unbroken and securely mounted.
- Ensure handlebar grips are not damaged and properly installed. Loose/damaged grips can cause loss of control and falling.
- In case you hear an unusual noise, experience “wobbly” motion of wheels, lack of braking power, intermittent pedal assistance, or other unusual signs when operating the bicycle, stop using it and visit a local dealer for inspection.
- Leaving a bicycle standing in the open or not using it for long periods may be subject to increased wear through weathering and deterioration. You should have your bicycle, and its components checked periodically by your dealer for indicators of stress and potential failure, including cracks, corrosion, deformation, dents, paint peeling, and any other indicators of potential problems, inappropriate use or abuse. These checks are important to ensure all components function safely and reliably and to help prevent any accidents or injuries to the rider.

IMPORTANT! Do not attempt to open the casings of the battery, motor, or controller; it could be dangerous and will void any warranties by doing so. If you experience a problem, please contact our service department or your local dealer.

WATER

- Your Power Bike is rain and splash resistant. Please, use caution; do not operate your bicycle or leave outside in bad weather conditions.
- The electric components, such as the LCD, motor, battery, and controller, **MUST NOT** be submerged in water.
- To prevent rust or corrosion, dry off bicycle and components after riding and store bike and battery in a dry location. **DO NOT** turn on the bike after exposure to water. Dry it thoroughly first!
- To avoid electric shock and damage to your product, do not charge the battery while it is wet or in an area where it could get wet. Do not handle a bicycle, charger, or cords with wet hands while charging.

WARRANTY

STANDARD LIMITED WARRANTY

Recon warrants every new Recon Power Bike to be free from manufacturer defects in material and workmanship for ONE (1) year provided that the product is used in a standard and controlled manner, and maintained according to its owner's manual.

This warranty is valid in the United States only and applies to the person or entity that originally purchased the product from Recon or its authorized dealers in the United States (not transferable to a subsequent purchaser). The warranty period commences upon the date of original purchase. Proof of purchase from an authorized Recon dealer and photo/video evidence of the defect are required to receive the warranty support.

For most current and up to date warranty information refer to the website

<https://www.reconpowerbikes.com/warranty-privacy-policy/>

What is NOT covered by this warranty?

- Recon product without presented proof of purchase from an authorized Recon dealer AND photo/video evidence of the defect;
- Recon product purchased from an unauthorized Recon dealer;
- Recon product with an expired warranty period;
- Recon product transferred to a subsequent purchaser or owner;
- normal wear and tear (scrapes, scratches, etc.);
- consumables (components that are subject to a short life and periodic replacement due to their functions including, but not limited to tires, tubes, brake pads, spokes, alkaline batteries, saddle covering, paint, mineral oil, other lubricants);
- assembly or tune-up fees;
- costs associated with inspection, labor, packaging material, shipping of warranted products;
- damage or defects resulting from failure to follow instructions in the owner's manual, improper assembly, use of incompatible and non-original parts, improper maintenance, storage, and transportation, alterations, modifications, acts of God, accidents, misuse, neglect, abuse, water damage, operator's error, commercial activities, extreme or excessive riding, and other types of non-standard use;
- damage or defects resulting from an attempted repair unless performed by an authorized Recon Dealer with Recon's knowledge and approval;
- damage or defects caused by flood, lightning, earthquake, war, vandalism, theft, brownouts or sags (damage due to low voltage disturbances).

How to obtain warranty support?

Step 1

Make sure to have the following available: the original bill of sale with unexpired warranty period (proof of purchase), photo/video evidence of the defective part or product, and main product information (such as model, serial number, battery voltage, motor wattage).

Step 2

Read the respective manual and FAQs for troubleshooting and repair instructions. If the solution is not found, contact the authorized Recon Bike dealer (seller) from whom you purchased your product and report an issue. As your number one resource, the dealer shall evaluate the problem, provide instructions for troubleshooting, and make attempts at resolving it.

All claims to this warranty must be made through Recon Power Bikes. Proof of purchase may be required with any warranty request. Before making a warranty claim, we suggest that you contact our Technical Support team at **info@reconpowerbikes.com** as there may be a simple fix for your problem. Valid warranty claims will be processed through Recon Power Bikes within one year of initial purchase.

SIMPLE TROUBLESHOOTING

PROBLEM	SOLUTIONS
A. Speed is too slow	<ol style="list-style-type: none"> 1. Fully recharge and reinstall the battery 2. Check tire pressure and spokes tension, make sure the brake handles are fully released 3. Motor, battery, or controller need to be replaced
B. Riding shorter distance per recharge	<ol style="list-style-type: none"> 4. Check tire pressure; recharge the battery 5. Make sure bike is not overloaded, adjust the route 6. Battery or charger needs to be replaced
C. LCD does not turn on, or LCD flashes for a second and does not turn on	<ol style="list-style-type: none"> 7. Make sure LCD cable is properly connected and not damaged 8. Fully recharge and reinstall the battery 9. LCD, battery, or main wire harness need to be replaced
D. LCD turns on but motor not working (neither with the throttle nor with the PAS)	<ol style="list-style-type: none"> 10. Make sure motor cable is properly connected and not damaged 11. Check whether the brake levers are fully released and brake cut-off switch is not activated 12. Check if PAS level is on 1 to 5 13. Recharge and reinstall the battery 14. Motor, controller, or main wire harness need to be replaced
E. LCD is on; bike works with the throttle, but not with the pedal assist.	<ol style="list-style-type: none"> 15. Make sure PAS wire is connected and not damaged 16. Make sure PAS is clean and not damaged 17. PAS, controller, wire harness, or motor needs to be replaced
F. LCD is on; bike works with the pedal assist, but not with the throttle	<ol style="list-style-type: none"> 1. Make sure throttle wire is connected and not damaged 2. Check whether the brake levers are fully released and brake cut-off switch is not activated 3. Throttle, controller or main wire harness need to be replaced
G. LCD is on; when switching to PAS 1, the bike takes off without pressing the throttle or pedaling	<ol style="list-style-type: none"> 4. Check if the throttle lever is down in ON position 5. Throttle, PAS, or controller need to be replaced
H. After stopping, PAS or throttle do not work	<ol style="list-style-type: none"> 6. Check whether the brake handles are fully released 7. Check if PAS level is on 1 to 5. 8. Begin the ride with pedaling first, and then applying the throttle 9. Throttle, PAS, or controller need to be replaced
I. When the charger is connected to the outlet, the indicator light does not come on.	<ol style="list-style-type: none"> 18. Check whether there is electricity to the charger 19. Make sure the charger cables are properly connected 20. If you have a voltage meter, check if the charger produces the correct current
J. When connecting the unplugged charger to the battery, it sparks	<ol style="list-style-type: none"> 10. Connect charger to outlet first. When indicator lights come on, connect charger to battery. 11. If sparks occur, stop charging immediately. Do not touch the battery.
K. When plugging in the charger into an outlet and then into the battery, the green light stays on.	<ol style="list-style-type: none"> 12. The battery is full or not charging. Check LCD indicator if the battery is fully charged 13. Check whether the charger is plugged in properly to both outlet and battery 14. Check the voltage of charger and battery 15. Charger or battery needs to be replaced
L. Squeaking noise when braking	<ol style="list-style-type: none"> 21. Braking system needs to be cleaned and adjusted 22. Brake pads need to be cleaned or replaced 23. Disc rotor needs to be straightened, cleaned, or replaced
M. Grinding noise comes from the rear wheel when riding	<ol style="list-style-type: none"> 16. Check the condition of the rim & spokes, spokes tension 17. Check braking and shifting systems 18. Make sure the fender, derailleur, and kickstand do not rub 19. Motor needs to be replaced

CONTACT US

If you have any questions/comments/concerns or would like to share your RECON bike experience, please contact us at:

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Website: www.ReconPowerBikes.com

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