Welcome

Thank you for purchasing the RadWagon™ from Rad Power® 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 Rad Power Bikes Help Center, contact us by email, and/or give us a call on the phone.

We are here to help!

Rad Power Bikes Help Center: www.radpowerbikes.ca/help

Email: can-support@radpowerbikes.com

Phone: 1-877-299-9404 x 203

Thanks for Riding RAD!
Using This Manual

This manual contains details of the product, its equipment, and information on operation, maintenance, and other helpful tips for owners. Read it carefully and familiarize yourself with the ebike before using it to ensure safe use and prevent accidents. This manual contains many warnings and cautions concerning the safe operation and consequences if proper setup, operation, and maintenance are not performed. Review information in this manual carefully and, if you have any questions, contact Rad Power Bikes immediately.

The notes, warnings, and cautions contained within the manual and any content marked with the triangular Caution Symbol as shown by this paragraph should be given special care. Users should also pay special attention to information in this manual beginning with NOTICE.

Keep this manual, along with any other documents that were included with your bike, for future reference. However, all content in this manual is subject to change or withdrawal without notice. Visit http://www.radpowerbikes.ca/help to view and download the latest information. Rad Power Bikes makes every effort to ensure the accuracy of its documentation and assumes no responsibility or liability if any errors or inaccuracies appear within.

Assembly and first adjustment of your bike from Rad Power Bikes requires special tools and skills, and it is recommended that this be done by a certified, reputable bike mechanic if possible.

Because it is impossible to anticipate every situation or condition that can occur while riding, this manual makes no representations about the safe use of bikes under all conditions. With the use of any bike, there are risks that cannot be predicted or avoided, and these risks are the sole responsibility of the rider.
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General Info

Assembly and Fit
Correct assembly and fit are essential elements of ensuring your bicycling safety, performance, and comfort. If you have the experience, skill, and tools to complete these essential steps before your first ride, Rad Power Bikes recommends having a certified, reputable bike mechanic check your work.

**NOTICE:** If you do not have the experience, skill, and tools to complete assembly and fit, Rad Power Bikes highly recommends having a certified, reputable bike mechanic complete these procedures as well as any future adjustments or tuning.

**NOTICE:** A critical aspect of assembling your bike from Rad Power Bikes is securing the front wheel and checking the tightness of the rear wheel axle nuts. All bikes from Rad Power Bikes use a quick release front wheel mounting mechanism, and the rear wheel is bolted on. These mechanisms may become loose or unsecured during shipment or over time. The torque and security of all wheel mounting hardware should be inspected upon arrival and on a regular basis. Both wheels need to be properly secured before operating your bike.

Mandatory Equipment and Use Locations
Before all rides, ensure you have all required and recommended safety equipment and are following all laws pertaining to using an electric bike in your region. For example, these laws may include the need for mandatory equipment, use of hand signals, and where you can ride.

Changing Components or Attaching Accessories
The use of non-original components or spare parts can jeopardize the safety of your ebike, void your warranty, and, in some cases, cause your ebike to not conform with laws pertaining to your bike.
The replacement of original components or installation of third-party accessories or accessories from Rad Power Bikes not explicitly recommended for your bike model is at your own risk. Using aftermarket accessories or components that have not been tested by Rad Power Bikes for safety and compatibility may void your warranty, create an unsafe riding condition, damage your property or your bike by Rad Power Bikes, or result in serious injury or death.

Safety Check Before Each Ride
Always check the condition of your bicycle before you ride in addition to having regular maintenance performed. If you are unsure of how to conduct a complete check of the condition of your bicycle before every ride, you should consult a certified bicycle mechanic for assistance. See the Pre-Ride Safety Checklist section of this manual for more information.

Electrical System
The electrical system on your ebike offers various levels of power assistance and lighting for different operating conditions and user preferences. It is critical that you familiarize yourself with all aspects of your ebike’s electrical system and check to see that it is working correctly before every ride. The front and rear brake levers contain safety power cutoff switches, which disable the hub motor’s assistance when applied, and both levers should be checked for correct operation. The throttle should provide smooth acceleration when gradually applied. If the throttle, brake lever cutoff switches, pedal assistance, or lighting is not functioning abnormally, intermittently, or not working, please discontinue using your ebike immediately and contact the Rad Power Bikes Product Support team for assistance.

Brakes
Ensure brakes are working correctly and that all braking system components are free from damage and properly secured. When you fully squeeze the brake levers, ensure neither the front nor rear brake levers touch the handlebar. Take your bike to a certified, reputable bike mechanic to have the brakes repaired if you find a problem.

Tires and Wheels
Your wheels should always spin “true”—spin straight without wobbling side to side or up and down. If your wheels become untrue or spokes loosen, they must be repaired or replaced. Do not attempt to true or tighten unless you have adequate knowledge, tools, and experience. It is recommended that a certified, reputable bike mechanic performs all wheel tuning and
trueing operations on your bike from Rad Power Bikes. Ensure your tires and inner tubes are in good working condition without any visual damage and have the correct amount of air pressure. Always replace tires and inner tubes with punctures, cuts or damage before you ride. Tires without the correct amount of air pressure can reduce performance, increase tire and component wear, and make riding your bike unsafe.

**Accessories, Straps, and Hardware**
Ensure all hardware is secured and all approved accessories are properly attached per the specific component manufacturer’s instructions. It is good practice to look over all hardware, straps, and accessories before each ride, and if you do discover something is wrong or find something you are not sure about, please have it checked by a certified, reputable bike mechanic.

**Quick Release Levers**
Quick release levers are located throughout the RadWagon for securing the seatpost and the front wheel to the bike. These provide convenience by allowing the front wheel to be removed and the seatpost to be adjusted without tools. Since quick release levers can be loosened during transportation, or accidentally between or during rides, it is important that you regularly check to ensure these components are properly secured.

**Handlebar, Grips, and Seat Adjustments**
Ensure the handlebar, handlebar stem, and seatpost are properly fastened, aligned, and fitted to the user. Ensure all hardware securing the handlebar and seat are properly tightened including all quick release levers. Loose, worn, or damaged handlebar grips should be replaced before you ride.

**Battery Charged, Secured, and Unplugged**
Ensure the battery is adequately charged and operating properly. The battery gauge on the LCD display and charge status indicator on the battery should read similarly. Ensure the battery charger is unplugged from the outlet, battery, then stored in a safe location before you ride. The battery MUST be locked onto the frame battery mount properly before use. Do not operate the electrical system if the battery is removed.
Fully Assembled 2019 RadWagon
Assembly Instructions

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

**Step 1:** 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 EPE foam). Ensure all pieces are included in the package including:

- RadWagon
- Front Wheel
- Anti-rotation spring (deflopilator)
- Kickstand
- Manual(s) and Assembly Toolkit
- Charger
- Pedals (marked left and right)
- Left and Right Running Boards
- Quick Release (in fork protector plate)
- Front Fender
- Headlight
- Keys (two, identical)

If there are any missing parts, please contact Rad Power Bikes for help replacing missing pieces.

**Step 2:** Install the kickstand onto the bike using the included hardware as shown in the assembly video at [www.radpowerbikes.ca/help](http://www.radpowerbikes.ca/help).

**Step 3:** Install the handlebar onto the stem as shown in the assembly video for the RadWagon available at [www.radpowerbikes.ca/help](http://www.radpowerbikes.ca/help). Center the handlebar and ensure hardware is properly secured. Before fully securing the handlebar to the stem, adjust the stem angle using the Allen screws on the side of the stem. Once you have the desired handlebar height, rotate the handlebar in the stem until finding the ideal wrist angle and securely fasten all hardware.
Step 4: **Install the front wheel components.** Install the front fender, headlight, and front wheel onto the front fork as shown in the assembly video at [www.radpowerbikes.ca/help](http://www.radpowerbikes.ca/help). Ensure front wheel and quick release are properly secured before moving on to the next step. When properly installed, the front wheel should be fully seated in the dropouts of the front fork, and the quick release lever should be fully and properly secured.

Carefully align and connect the waterproof connector joining the headlight to the wiring harness. The headlight angle should be adjusted to provide illuminate the road ahead and not blind oncoming traffic. The headlight is equipped with a light sensor which will automatically dim the headlight when riding during day to save power. The sensor is covered by a switch on the back of the headlight (depicted at right). When the small opaque sensor is covered, the headlight, when on, will be full brightness, daytime and nighttime. If the sensor is exposed as shown (at right), the headlight, when on, will automatically dim during the day, and fully bright when it is dark out. Select either option based on preference.

Step 5: **Install the pedals.** Locate the pedal marked “R” with a smooth exterior of the pedal axle (1, at right), which is the right pedal. The right pedal goes on the crank on the right side of the bike (which has the drivetrain gears and is the same as a rider’s right side when riding). The right pedal is threaded so that it is tightened by turning clockwise. Carefully thread the right pedal onto the crank on the right side of the bike slowly and by hand. Do not cross thread or damage the threads.

The left pedal is reverse threaded and tightens counterclockwise. Ensure the pedal is marked with an “L” and has notches on the exterior of the pedal axle (2, at right), indicating it is the left pedal. Carefully thread the pedal onto the left crank by hand slowly. Do not cross thread or damage the threads. **Tighten each pedal securely using a pedal wrench to avoid damage caused by wider wrenches**, as shown in assembly video.
Step 6: Install the Running Boards using the provided hardware and using the steps shown in the assembly video at www.radpowerbikes.ca/help. Running Boards should be level once secured. If they are sitting at an angle, loosen the mounting hardware, hold the Running Boards in a horizontal orientation, and tighten each bolt a partial turn at a time, alternating between bolts to tighten them down evenly.

Step 7: Inflate tires to desired PSI. Recommended pressure 50-60 PSI (3.45-4.14 Bar) for the front and rear tires on the RadWagon. Recommended tire pressure is indicated on the tire sidewall. Do not overinflate or underinflate tires.

Step 8: Set desired seat height. Adjust the seat post up and down to a comfortable height and secure all hardware and the quick release lever to lock the seat post in place.

Step 9: Install the defloplator (front fork anti-rotation spring) and plastic cover as shown in the assembly video available from www.radpowerbikes.ca/help.

Step 10: Always check that the battery is locked to the frame of the RadWagon before riding. The Start-Up Procedure section of this manual has more information on the key positions of the battery, on and locked to the frame, off and locked to the frame, and off and unlocked (ready for removal from the frame).

STEP 11: Review the remainder of the manual. Once the bike has been assembled per the above instructions and the assembly video available from www.radpowerbikes.ca/help, read, understand, and follow the procedures outlined in the remainder of the manual before operating the bike.
**NOTICE:** If you have any questions regarding the assembly of your bike, contact Rad Power Bikes. If you are not able to ensure all the assembly steps in the assembly video are performed properly, or you are unable to view the assembly video, please consult a certified, reputable local bike mechanic for assistance in addition to contacting Rad Power Bikes for help.

**NOTICE:** Ensure all hardware is tightened properly following recommended torque values and all safety checks in the following sections are performed before the first use of the bike.

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Do not extend any components including the stem or seatpost beyond the minimum insertion markings on the seat post or maximum angle markings on the stem which are etched into the components. Ensure that all hardware is properly tightened (to the recommended torque values included in this manual) and secured before moving on to next step otherwise damage to the bike, property, serious injury, or death could occur.

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**Rider Comfort**

To obtain maximum comfort, riders should not overextend their arms’ reach when riding. To obtain the most comfortable riding position and offer the best possible pedaling efficiency, the seat height should be set correctly in relation to the rider’s leg length as briefly described above. The correct seat height should not allow leg strain from over extension and the hips should not rock from side to side when pedaling. While sitting on the bike with one pedal at its lowest point, place the ball of the foot on that pedal. The correct seat height will allow the knee to be slightly bent in this position. A bike fitting professional, such as a certified, reputable bike mechanic who specializes in bike fit, should be consulted if you have any questions regarding proper bike fit to avoid strain on the rider.
Adjusting the Seat Height

For most users, the seat height should be set by placing the ball of their foot on the pedal when the crank is at its lowest point. In this orientation their leg should almost be fully extended.

1) Open the quick release lever by swinging the lever open and outwards to about 180 degrees.

2) Move the seat up and down by sliding the seatpost in or out of the seat tube. Set the desired seat height.

3) After tightening the adjustment nut (opposite the quick release lever) on the seat post quick release properly, close the quick release lever by swinging the lever back about 90 degrees until it looks like the image at right and the seat cannot move up, down, to the left, or right.

Before using the bike, always check to ensure all latches, levers, and quick releases are properly secured and undamaged. Check that they are correctly secured before every ride and after every time the bike is left unsupervised, even for a short time. Otherwise, the handlebar stem and/or seatpost may come loose and can result in loss of control, damage to the bike, property, serious injury, and/or death.
Adjusting the Seat Position and Angle

To change the angle and horizontal position of the seat:

1) Use an Allen wrench to undo the seat adjustment bolt (pictured at right) underneath the seat on the clamp positioned immediately underneath the seat, above the rear wheel.

2) Move the seat backwards or forwards in the guide and adjust the angle of the seat. A seat position horizontal to flat ground is desirable for most riders. There are white limit markings on the seat rail, which show the minimum and maximum horizontal movement allowed for this component, do not exceed these limits.

3) While holding the seat in the desired position, use an Allen wrench to tighten the seat adjustment bolt securely.

**NOTICE:** Prior to first use, be sure to tighten the seat clamp via the seat adjustment bolt properly. A loose seat clamp or seatpost adjustment bolt can cause damage to the bike, property, loss of control, a fall, serious injury, or death. Periodically check to make sure that the seat clamp is properly tightened.

**NOTICE:** Ensure seatpost and seat are properly adjusted before riding. DO NOT raise the seatpost beyond the minimum insertion marking etched into the seatpost tube (as shown at right). If the seatpost projects from the frame beyond these markings (shown far right), the seatpost or frame may break, which could cause a rider to lose control and fall. Ensure the minimum insertion markings on the seatpost are inside the seat tube of the frame.
## Recommended Torque Values

<table>
<thead>
<tr>
<th>Hardware Location</th>
<th>Hardware</th>
<th>Torque Required (Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handlebar Area</td>
<td>Handlebar Stem Clamp Bolts</td>
<td>10</td>
</tr>
<tr>
<td>Handlebar Area</td>
<td>Stem Faceplate Bolts</td>
<td>6</td>
</tr>
<tr>
<td>Handlebar Area</td>
<td>Brake Lever Clamp Bolt</td>
<td>6</td>
</tr>
<tr>
<td>Handlebar Area</td>
<td>Shifter Clamp Screw</td>
<td>6</td>
</tr>
<tr>
<td>Handlebar Area</td>
<td>Stem Angle Adjust</td>
<td>18</td>
</tr>
<tr>
<td>Brakes</td>
<td>Caliper Adapter to Frame</td>
<td>6-8</td>
</tr>
<tr>
<td>Brakes</td>
<td>Caliper to Adapter</td>
<td>6-8</td>
</tr>
<tr>
<td>Brakes</td>
<td>Brake Cable to Caliper Clamp</td>
<td>6-8</td>
</tr>
<tr>
<td>Brakes</td>
<td>Disc Brake Rotor to Hub</td>
<td>7</td>
</tr>
<tr>
<td>Seat Post Area</td>
<td>Seat Adjustment Bolt</td>
<td>20</td>
</tr>
<tr>
<td>Rear Dropout Area</td>
<td>Rear Axle Nuts</td>
<td>40</td>
</tr>
<tr>
<td>Rear Dropout Area</td>
<td>Rear Torque Arm Bolt</td>
<td>5</td>
</tr>
<tr>
<td>Rear Dropout Area</td>
<td>Derailleur Hanger Mounting Bolt</td>
<td>6</td>
</tr>
<tr>
<td>Rear Dropout Area</td>
<td>Derailleur Mounting Bolt</td>
<td>10</td>
</tr>
<tr>
<td>Rear Dropout Area</td>
<td>Derailleur Cable Pinch Bolt</td>
<td>6-8</td>
</tr>
<tr>
<td>Rear Dropout Area</td>
<td>Kickstand Mounting Bolts</td>
<td>12</td>
</tr>
<tr>
<td>Rear Dropout Area</td>
<td>Running Board Mounting Hardware</td>
<td>8</td>
</tr>
<tr>
<td>Bottom Bracket and Crank Area</td>
<td>Bottom Bracket and Lockring</td>
<td>60</td>
</tr>
<tr>
<td>Bottom Bracket and Crank Area</td>
<td>Crank Arm Bolt into BB spindle</td>
<td>35</td>
</tr>
<tr>
<td>Bottom Bracket and Crank Area</td>
<td>Pedal into Crank Arm</td>
<td>35</td>
</tr>
<tr>
<td>Bottom Bracket and Crank Area</td>
<td>Chainring Bolts</td>
<td>10</td>
</tr>
<tr>
<td>Bottom Bracket and Crank Area</td>
<td>Controller Mounting Bolts</td>
<td>6</td>
</tr>
<tr>
<td>Fenders</td>
<td>All Fender Mounting Bolts and Hardware</td>
<td>6</td>
</tr>
</tbody>
</table>
Battery Charging

Charging Procedure

Follow these steps for charging your bike from Rad Power Bikes:

1. **Ensure the battery is off** by inspecting the key port markings (1, below). If needed, align the key port with the OFF icon (the small circle with an “X” inside) by inserting the key into the key port and rotating to align the key with the OFF icon as shown (at right).

2. **Remove the rubber cover on the charging port** (2, below) on the opposite side of the battery from the key switch.

3. With the battery on or off the bike, place the charger in a flat, secure place, and connect the DC output plug from the charger (round barrel connector) to the charging port on the side of the battery.

4. **Plug the charger into the outlet, then the charging port.** Connect the charger input plug (110/220-volt plug) to the power outlet. Charging should initiate and will be indicated by the LED charge status light on the charger turning red.

5. **Unplug the charger from the outlet, then the charging port.** Once fully charged, indicated by the charging indicator light turning green, unplug the charger from the wall outlet first and proceed to remove the charger output plug from the battery charging port.

> Always charge your battery in temperatures between 10°C – 25°C (50°F – 77°F) and ensure the battery and charger are not damaged before initiating charge. If you notice anything unusual while charging, please discontinue charging and use of the bike and contact Rad Power Bikes for help.
Battery Charging Information

- **Check the charger, charger cables, and battery for damage** before beginning each charge.
- **Always charge in a safe area** that is cool*, dry, indoors, away from direct sunlight, dirt, or debris, in a clear area away from potential to trip on the charging cords, or for damage to occur to the bike, battery, or charging equipment while parked and/or charging. *Always charge your battery in temperatures between 10 °C – 25 °C (50 °F – 77 °F).
- **The battery can be charged on or off the bike.** To remove the battery, turn the key to the off and unlocked position (see the Start-Up Procedure section for details) and then carefully pull the battery forward and up until the battery detaches from the receptacle. See the When the Battery is Removed section for more information for off-bike battery handling.
- **The battery should be recharged after each use**, so it is ready to go the full range per charge next ride. There is no memory effect, so charging the battery after short rides will not cause damage.
- **Charging the battery normally takes 3-7 hours.** In rare cases, it may take longer to allow the battery management system to balance the battery, particularly when the bike is new or after long periods of storage. Balance the battery during the first three charges. See the Balancing the Battery section for more information.
- **The charge indicator lights** will show two red lights while the battery charges. When charging is complete, one indicator light will turn green, so one green, and one red will be illuminated. Ensure the lights face upward when charging.
- **Remove the charger from the battery within one hour of the green light indicating a complete charge.** The charger is designed to automatically stop charging when the battery is full, but unnecessary wear of the charging components could occur if the charger is left attached to the battery and a power source for longer than 12 hours. Detach the charger within one hour, or as soon as possible, once the green light indicates a complete charge to avoid unnecessary wear of charging components.
- **Never charge a battery for more than 12 hours at a time.**
- **Do not leave a charging battery unattended.**

Danger: Failure to follow battery charging best practices could result in unnecessary wear to the charging components, battery, and or charger, and could lead to an underperforming or non-functional battery. Replacement will not be covered under warranty.
When the Battery Is Removed

- Ensure the battery is turned off whenever it is being removed or off the bike.
- Do not touch the “+” or “-” terminal contacts on the bottom of the battery when the battery is removed from the bike.
- Be careful not to drop or damage the battery when loose from the bike.
- Be careful to avoid damaging the exposed connector terminals and keep them clear of debris.

⚠️ Use caution to avoid damage to battery connector terminals, which are exposed when the battery is unlocked and removed from the frame of the bike. In the case of damage to the terminals or battery mounts, please discontinue use and contact Rad Power Bikes Product Support immediately.

When Installing the Battery onto the Bike

- Ensure the battery is turned off before sliding the battery into the frame mount receptacle.
- Do not force the battery onto the receptacle, slowly align and push battery down into the receptacle.
- Ensure the battery has been properly secured to the bike before each use by carefully pulling upwards on the battery with both hands to test the security of the attachment of the battery to the mount.

Charging Time

When the input and output plugs of the charger are connected properly, and the battery is not fully charged, the red charging indicator light should illuminate, indicating the battery is charging. The time the charger takes to fully charge the battery is dependent on various factors including distance traveled, riding characteristics, terrain, payload, and battery age. The following table provides an estimate of charge time based on most common distances traveled in regular operation:

<table>
<thead>
<tr>
<th>Distance Traveled</th>
<th>Estimated Time to Fully Recharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 km (5 mi)</td>
<td>1 hour</td>
</tr>
<tr>
<td>16 km (10 mi)</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>24 km (15 mi)</td>
<td>2.5 hours</td>
</tr>
<tr>
<td>32 km (20 mi)</td>
<td>3.5 hours</td>
</tr>
<tr>
<td>40 km (25 mi)</td>
<td>4.5 hours</td>
</tr>
<tr>
<td>48 km (20 mi)</td>
<td>5.5 hours</td>
</tr>
<tr>
<td>72 km (45 mi)</td>
<td>7 hours</td>
</tr>
</tbody>
</table>
**Notice:** The battery may take longer to charge when fully depleted, when very new, and after 3-5 years of regular use. If the battery does not seem to be charging normally, taking longer to charge than expected, or you are experiencing substantial reduction in range, please discontinue use and contact Rad Power Bikes immediately.

**Charger Safety Information**

- The charger should only be used indoors in a cool, dry, ventilated area, on a flat, stable, hard surface.
- Avoid charger contact with liquids, dirt, debris, or metal objects. Do not cover the charger while in use.
- Store and use the charger in a safe place away from children and where it cannot suffer damage from falls or impact.
- Fully charge the battery before each use to ensure it is ready to go the full range per charge, to extend the life of the battery, and help reduce the chance of over-discharging the battery.
- Charge the battery with the charger originally supplied with the bike from Rad Power Bikes, or a charger purchased directly from Rad Power Bikes, designed for use with your specific bike serial number, as approved by Rad Power Bikes.
- Do not charge the battery with any chargers other than the one originally supplied from Rad Power Bikes or a charger purchased directly from Rad Power Bikes, designed for use with your specific bike, as approved by Rad Power Bikes.
- The charger works on 110/220 V 50/60 Hz standard home AC power outlets and the charger automatically detects and accounts for incoming voltage. Do not open the charger or modify voltage input.
- Do not yank or pull on the cables of the charger. When unplugging carefully remove both the AC and DC cables by pulling on the plastic plugs directly, not pulling on the cables.
- The charger will get hot when operating as designed. If the charger gets too hot to touch, you notice a strange smell, or any other indicator of overheating, discontinue charger use immediately and contact Rad Power Bikes Product Support.

**Charge the battery only with the charger originally supplied with the bike from Rad Power Bikes, or a charger purchased directly from Rad Power Bikes, designed for use with your specific bike serial number, as approved by Rad Power Bikes. Never use an aftermarket charger, which can result in damage, serious injury, or death.**

Please take special care in charging your bike from Rad Power Bikes in accordance with the procedures and safety information detailed in this manual. Failure to follow proper charging procedures can result in damage to your bike from Rad Power Bikes, the charger, personal property, and/or serious injury or death.
Balancing the Battery

When you first receive your bike and for the first three times you charge your battery from Rad Power Bikes, follow the procedure outlined below to ensure the cells that power the battery are balanced and operating as efficiently as possible.

**Note:** Since the battery should arrive with between 50-75% of a charge, it should be able to be ridden without initially charging once assembled and verified as safe by a certified, reputable bike mechanic. Charging normally before the first ride is also fine.

1. **After the first, second, and third ride**, regardless of distance ridden or the amount of battery used, charge the battery and leave the charger attached to the battery and the outlet for **as close to 12 hours as possible (but not longer than 12 hours)**. **Note:** this may require leaving the charger attached to the battery and outlet even after the charger illuminates one green (and one red) light, indicating the battery is full.

2. Disconnect the charger from the outlet then the battery once the first balance charge (long charge as close to, but not longer than, 12 hours) is complete and store the bike until you are ready for your next ride.

3. **Ride the bike again** with power assistance as normal, and discharge part (or all) of the battery capacity.

4. Repeat steps 1-3 for a total of three balance charging sessions (as close to, but not longer than, 12 hours).

5. **After the third balance charge and fourth ride,** **begin normal charging procedures** including:
   - Charging the battery after each ride according to the Battery Charging section.
   - Removing the charger from the battery as close to the green charge light indicating the battery is full, which will typically occur between 3-7 hours.
   - Never leaving the battery charging for longer than 12 hours.
   - Never leaving the battery/charger unattended while charging.
Repeat battery balancing steps 1-5 only after a period of long-term battery storage (see the Long-Term Battery Storage section), if experiencing noticeable range decline, if instructed to do so by Rad Power Bikes Product Support, or up to once per month with frequent use as proactive battery maintenance. Do not perform battery balancing more than once per month.

Long-Term Battery Storage
If storing your bike from Rad Power Bikes for longer than two weeks at a time, follow the instructions below to maintain the health and longevity of your battery.

- Charge (or discharge) the battery to approximately 75% charged.
- Power off the battery either locked to the frame or unlocked and removed from the frame for storage (see Battery Key Positions section for details).
- Store the battery in a dry, climate controlled, indoor location between 10 °C – 25 °C (50 °F – 77 °F).
- Check the battery every month, and if necessary, use the Rad Power Bikes charger to charge the battery to 75% charged.

Please follow the above instructions for storing your bike and battery from Rad Power Bikes. Failure to follow proper battery storage procedures can result in a non-functional battery. Replacement will not be covered under warranty.

If the battery is physically damaged, non-functional, performing abnormally, or was dropped or involved in a crash, with or without obvious signs of damage, please discontinue use and charging and contact Rad Power Bikes immediately.

Do not cover up the charger when plugged in or charging. The charger needs to be on a hard, flat surface in an open space to air-cool properly. Use the charger with the indicator light facing upwards. Do not use with the charger inverted, which can inhibit cooling and reduce charger lifespan.

Do not open the battery housing, which will void the warranty and can result in damage to the battery or property or cause serious injury and/or death.
**NOTICE:** Do not perform any of the steps in the Operation section of this manual until you have read this entire manual, since there are important details related to safety in the following sections.

Read and understand all sections of this entire manual before operating the bike for the first time. There are important safety warnings throughout the whole manual that must be followed to prevent dangerous situations, accidents, and possible injury and/or death.

Users must follow the instructions and warnings contained in this manual for safety. Do not attempt to operate your bike from Rad Power Bikes until you have adequate knowledge of its control and operation. Damage caused by failing to follow instructions is not covered under warranty and could result in personal injury to you and others, and damage to property and/or your bike from Rad Power Bikes. Contact Rad Power Bikes if you have any questions about assembly or operation.

Users must become accustomed to the bike’s power control system before operating. The throttle mechanism allows full power to be activated from a stop, and inexperienced users should take extra care when first applying the throttle. The pedal assistance feature is also a powerful option, and users should fully research and understand how to operate it before first use. Not taking care to familiarize yourself and practice the operation of the power system on your bike from Rad Power Bikes can lead to damage, serious injury, and/or death.
Battery Key Positions

**Familiarize yourself with the key port and key positions** before riding the bike. The photo below shows the key port aligned in key position 1, in line with the small open circle icon. In key position 1, the battery is in the “on” position, with the battery locked to the frame, and the key removed so the bike is ready to ride.

<table>
<thead>
<tr>
<th>Key Position/ Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>On, locked to frame</td>
</tr>
<tr>
<td>2</td>
<td>Off, locked to frame</td>
</tr>
<tr>
<td>3</td>
<td>Off, unlocked from frame (for battery removal)</td>
</tr>
<tr>
<td>4</td>
<td>Key identifier code</td>
</tr>
</tbody>
</table>

- Whenever the battery is in key position 1, (on, locked to the frame) the display power button will turn the bike on and off, but the battery cannot be removed.
- If the battery is in key position 2, (off, locked to the frame) no buttons or controls can be activated, the bike will remain off, and the battery cannot be removed.
- Whenever the battery is in key position 3, (off, unlocked from the frame) the battery must be removed from the bike before moving or riding the bike. Ensure the key is removed before sliding the battery off the mount.
## Handlebar Features

<table>
<thead>
<tr>
<th>Location on Handlebar</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LCD Display Remote</td>
</tr>
<tr>
<td>2</td>
<td>LCD Display</td>
</tr>
<tr>
<td>3</td>
<td>Shifter</td>
</tr>
<tr>
<td>4</td>
<td>Throttle Power Switch</td>
</tr>
</tbody>
</table>
## LCD Display Information

The table and image below show the various features and information displayed on the LCD Display.

<table>
<thead>
<tr>
<th>Location</th>
<th>Information on Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Battery Charge Indicator</td>
</tr>
<tr>
<td>2</td>
<td>Distance (Odometer, Trip Odometer)</td>
</tr>
<tr>
<td>3</td>
<td>Distance Unit (kilometers (Km), miles (Mile))</td>
</tr>
<tr>
<td>4</td>
<td>Speed Unit (kilometers per hour (Km/h), miles per hour (MPH))</td>
</tr>
<tr>
<td>5</td>
<td>Operation Mode</td>
</tr>
<tr>
<td>6</td>
<td>Watt Meter, Error Code Indicator</td>
</tr>
<tr>
<td>7</td>
<td>Pedal Assist Level</td>
</tr>
</tbody>
</table>
LCD Display Controls

The display is controlled using the 3-button LCD Display Remote mounted on the left side of the handlebar (depicted at right). The top button shows an arrow pointing UP (1), the middle button is labeled “MODE” (2), and the bottom button shows an arrow pointing DOWN (3). Reference the LCD Display Operations table in this manual for instructions on how to perform various operations using these buttons and, when applicable, other components of the bike.
## LCD Display Operations

<table>
<thead>
<tr>
<th>Operation</th>
<th>Directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn ON bike</td>
<td>Press and hold MODE (2) until power engages</td>
</tr>
<tr>
<td>Turn ON Headlight, Taillight, and LCD Display Backlight</td>
<td>Press and hold MODE (2) and UP (1) until light illuminates</td>
</tr>
<tr>
<td>Activate Brake Light</td>
<td>When bike is ON, squeeze Brake Lever</td>
</tr>
<tr>
<td>Activate Flash Mode on Tail Light</td>
<td>When Bike and Tail Light are ON, Press Rubber Button on Bottom Left of Tail Light Housing</td>
</tr>
<tr>
<td>Increase Pedal Assist (PAS) Level</td>
<td>Press and release UP (1)</td>
</tr>
<tr>
<td>Decrease Pedal Assist (PAS) Level</td>
<td>Press and release DOWN (3)</td>
</tr>
<tr>
<td>Toggle Odometer, Trip Odometer</td>
<td>Press and release MODE (2)</td>
</tr>
<tr>
<td>Toggle Current Speed (&quot;Speed&quot;), Average Speed, and Max Speed</td>
<td>Press and hold UP (1) until speed display changes</td>
</tr>
<tr>
<td>Turn ON Walk Mode</td>
<td>While dismounted, Press and continue to hold DOWN (3)</td>
</tr>
<tr>
<td>Charge Device Using USB Port</td>
<td>Locate USB Port on LCD edge closest to rider and unplug rubber cover. With LCD powered OFF, plug USB charging cable (not included) into USB Port on LCD Display and device (not included), turn ON bike by pressing and holding MODE until power engages.</td>
</tr>
</tbody>
</table>

**Notice:** The USB Charging Port charges many, but not all, devices. The USB charge rate from the display will supply power to many phones, but larger phones, which require higher power in order to charge, may not register charging. If the display indicates “USB” it will supplement battery power for the phone, but the phone’s state of charge may still decrease.

Walk mode should only be used while dismounted from the bike and with both hands on the handlebar. Always keep at least one hand on a brake lever to allow quick cutoff of the motor assistance if necessary and to maintain control of the bike.
Start-Up Procedure

1. **Test the battery lock security.** Ensure the key port is aligned with the circle containing an “X,” in the “off, locked” position (2) indicating the battery is off and locked onto the frame mount. If needed, insert the key and align with the “off, locked” icon (2). Remove the key and carefully use both hands to pull up on the battery to test that the lock is secure.

2. **Ensure proper handlebar and seat adjustment** of the bike to the rider. Once the battery has been verified as secure, ensure the seat and handlebars are adjusted properly to the rider. Lowering the seat so the rider can put one or both feet flat on the ground without dismounting from the seat may offer a safer and more comfortable introduction to operating the bike. Ensure the handlebar faceplate bolts and seatpost quick release are fully and properly secured.

3. **Turn the bike on.** Insert the key and turn clockwise to the open circle icon or “on, locked” position (1), as shown (at right). **Remove the key** by pulling directly backwards without twisting so the key barrel remains in the “on, locked” position. Locate the LCD display Remote (near the left handlebar grip). Hold down the center “mode” button for approximately 2 seconds until power is delivered to the LCD display.

Ensure the key is removed from the battery before mounting or operating the bike. Leaving the key inside of the battery key barrel while mounting, operating the bike, pedaling, dismounting, and/or removing an unlocked battery from the frame can cause damage to the key or battery and/or cause injury.
4. **Turn on the headlight and taillight** if needed or desired. Once the LCD display is on, hold down the top (up arrow) and middle (mode) buttons (located on the LCD display Remote) for approximately 2-3 seconds until the lights illuminate.

5. **Select the desired level of pedal assistance** (PAS) between level 0 through 5 using the up and down arrows on the display remote. Level 1 corresponds to the lowest level of pedal assistance, and level 5 corresponds to the highest level of pedal assistance. Level 0 indicates pedal assistance is inactive. Start in PAS level 0 or 1 and adjust from there.

6. **Begin riding carefully.** With the proper safety gear, rider knowledge, and understanding you may now proceed to operate your bike from Rad Power Bikes. On a flat surface, in a low gear (1 or 2), most riders should be able to begin pedaling the bike with pedal assist level 0 or 1. You may also use the throttle to accelerate and maintain your desired speed.

7. **The throttle** is used by first ensuring the black button on the throttle assembly is depressed, then slowly and carefully rotating the throttle backwards towards the rider. If the throttle button is not depressed, the throttle is off. The black button on the throttle is a latching type switch, so once depressed, you do not need to hold it down. With the button depressed, the throttle can be used whenever the bike is turned on. Do not use the throttle unless you are on the bike.

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*Do not use the throttle while dismounted. Avoid accidental application of the throttle while dismounted; anytime you are moving the bike while dismounted, ensure the throttle and bike are powered off to prevent accidental application of the throttle.*

**NOTICE:** Even if you are an experienced bike user, please take the time to read and implement the guidelines described in the owner’s manual accompanying your ebike by Rad Power Bikes, and the manuals included with each subcomponent.
Brake Light Features and Operations

Starting in 2019, all bikes from Rad Power Bikes come equipped with a taillight/brake light that is integrated into the electrical system. Whenever the bike is powered on, depressing one or both brake levers on the handlebar should cause the brake light to illuminate.

For increased visibility, the taillight’s “solid mode” can be turned on by using the LCD display remote, by pressing and holding the MODE and UP buttons when the bike is powered on. When in solid mode, the rear light will be illuminated, and when the brake levers are depressed, the brightness of the rear light will increase as the brake light activates. The taillight is also capable of flashing (in “flash mode”), while powered on.

To activate flash mode, power on the bike and taillight following the steps above, then, while dismounted from the bike, press the rubber flash mode button on the bottom left side of the taillight housing (circled at right). When in flash mode, depressing the brake lever(s) will illuminate a brighter, solid brake light. Flash mode will continue if the headlight is turned off but, when you turn your bike off and then back on, the taillight will revert to solid mode. If you want flash mode back on, just press the flash mode button on the taillight again.

Regenerative Braking

Regenerative braking is active on the RadWagon whenever the front and/or rear brake lever is applied, which flips an electronic switch, turning the motor into a brake. This feature recharges the battery when coming to a stop and travelling downhill.

The force of the motor acting as a brake can slow down your bike by Rad Power Bikes more rapidly compared to a standard bike without regenerative braking. Because of this, riders should proceed with caution and practice using this helpful feature before traveling on public streets and hilly terrain.
Battery Charge Level Indicator

The LCD Display on the handlebar of your bike from Rad Power Bikes features a battery charge level indicator (like a fuel gauge on a car). This indicator calculates battery life based on the battery power output (instantaneous voltage reading) and can fluctuate while riding if power demand and/or output changes. Once one bar is left on the display, users should charge the battery as soon as possible. At lower states of charge, the bike may limit power output to prevent damage to the battery. When the battery is fully depleted, the last bar will begin to flash, warning the user to charge the battery as soon as possible.

Best Practices for Extending Range and Battery Life

*Notice:* It is recommended that users pay close attention and ride within the following limitations to ensure the hub motor does not overheat or become damaged from excessive loading.

- To ensure adequate airflow to cool the electric components, keep the bike moving over 10 mph, or under 500 watts.
- Pedal to assist the motor when climbing hills and accelerating from a stop.
- Do not climb hills steeper than 15% in grade.
- Avoid sudden starts and stops.
- Accelerate slowly.
Driving Range

The range of your bike from Rad Power Bikes is the distance the bike will travel on a single full charge of the onboard battery. The range values in this manual are estimates based on Rad Power Bikes expected usage characteristics. Some of the factors that affect range include changes in elevation, speed, payload, acceleration, number of starts and stops, and ambient air temperatures. Tire pressure and terrain are also important variables to consider.

We suggest that you select a lower assistance level when you first get your bike from Rad Power Bikes to get to know your bike and travel routes. Once you become familiar with the range requirements of your travel routes and the capabilities of your bike from Rad Power Bikes, you can then adjust your riding characteristics if you so desire.

The following table provides range estimates based on various factors. This table is meant to help owners understand the factors that can contribute to decreased range, but Rad Power Bikes makes no claims to the range that individual users might experience in a particular use case, conditions, or riding characteristics.

<table>
<thead>
<tr>
<th>Expected Range</th>
<th>Operating Condition(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 km (20 mi)</td>
<td>o Hilly Terrain&lt;br&gt;o Heavy Payload&lt;br&gt;o Windy&lt;br&gt;o High Pedal Assist Level/ High Throttle Use&lt;br&gt;o Light Pedaling</td>
</tr>
<tr>
<td>48 km (30 mi)</td>
<td>o Flat Terrain&lt;br&gt;o Normal Payload&lt;br&gt;o Not Windy&lt;br&gt;o Medium Pedal Assist Level/ Moderate Throttle Use&lt;br&gt;o Light Pedaling</td>
</tr>
<tr>
<td>64 km (40 mi)</td>
<td>o Flat Terrain&lt;br&gt;o Normal Payload&lt;br&gt;o Not Windy&lt;br&gt;o Low Pedal Assist Level/ Minimal Throttle Use&lt;br&gt;o Moderate to Heavy Pedaling</td>
</tr>
</tbody>
</table>
Carrying Loads
MAXIMUM PAYLOAD CAPACITY FOR RADWAGON

The total maximum weight limit, or payload capacity, of the RadWagon (158 kg or 350 lb) includes the weight of the rider as well as clothing, riding gear, cargo, accessories, passengers, etc. The kickstand is not designed to be used for loading cargo. Do not assume the bike is stable and balanced when using the kickstand, always hold onto the bike when cargo is being loaded or in place. You MUST hold onto the bike whenever loading cargo or a passenger or child onto a child seat mounted on the Rear Cargo Deck. The Front Rack is an optional accessory for the RadWagon, available for purchase at www.radpowerbikes.ca.

Total maximum payload: 158 kg (350 lb)

Rear Cargo Deck maximum payload: 54 kg (120 lb)

Running Boards maximum payload: 18 kg (40 lb) per side

Kickstand maximum payload: 45 kg (100 lb)

Optional Front Rack maximum payload: 10 kg (22 lb)

The RadWagon Rear Cargo Deck is designed for no more than 54 kg (120 lb) of total cargo, regardless of any third-party rear rack accessories which might carry a higher weight rating. Heed this 54 kg (120 lb) limit, or damage to the rider, passenger(s), or to your bike from Rad Power Bikes can occur.

You MUST hold onto the bike whenever loading cargo and/or passenger(s). The kickstand is not designed to be used for loading cargo. Do not assume the bike is stable and balanced when using the kickstand. Always hold onto the bike when cargo is being loaded, in place, or attached to the bike by Rad Power Bikes.
Carrying Children

Check all regulations in the area where you operate the RadWagon to ensure carrying passengers, children, or cargo is allowed. Follow the stated weight limits in the Carrying Loads section of this manual and do not overload the RadWagon. The RadWagon should never be operated by persons under the age of 18 years old. Children incapable of riding a bike independently or under the age of four should not ride as passengers on the back of the RadWagon unless they are seated in a properly fitted and approved Child Safety Seat. The use of certified and approved child seating and equipment is required whenever carrying children.

The RadWagon Rear Cargo Deck is equipped with two mounting windows for the Thule Yepp Maxi Easyfit child carrier. The “Yepp Windows” are located under the included RadWagon Wooden Cargo Deck, which needs to be removed to install the child seats. The optional Caboose can be installed directly on the Wooden Cargo Deck or around one or two Yepp Maxi seats (shown far right).

For installation instructions, safety notices, general information, and tips on safe operation of the Thule Yepp Maxi Easyfit child carrier accessory, visit the manufacturer’s website online at www.thule.com or contact Rad Power Bikes. Rear wheel guards must be in place whenever carrying passengers to ensure feet and hands are kept away from wheels when the bike is in motion.
Notice: The following bulleted list provides important additional tips for the safe operation of the RadWagon when used for carrying children and other passengers.

- Do not allow passengers to sit sideways or backwards on the Rear Cargo Deck.
- Do not allow passengers to stand or kneel on the Rear Cargo Deck or Running Boards.
- Increased weight from passenger(s) will increase the time it takes to slow the bike when braking; please plan your stops accordingly. Ensure both front and rear brakes are properly adjusted, maintained, and applied.
- When carrying passenger(s) 4 years old or above you must have the running boards, rear wheel side covers, and an appropriate handle accessory, such as a Deck Hand or Caboose, available from www.radpowerbikes.ca.
- Children incapable of riding a children’s bike should not ride as passengers. Use your best judgement as a parent or guardian to keep children and passengers safe.
- Hold onto the bike when loading and ensure that passengers are safely seated before beginning to ride.
- Ensure that you and your passenger(s) are wearing a properly fitted and approved helmet.
- Since passengers sit behind the rider, they cannot see bumps or upcoming turns; instruct passengers to brace for bumps and be prepared for turns, braking, and other maneuvers.
- If using a single child seat, mount it in the forward most mounting position, to ensure passenger weight is as centered as possible.
- Passengers should sit directly over or forward of the rear wheel on the back deck, and no more than 18 kg (40 lb) should be loaded over the rear 1/3 of the Rear Cargo Deck.

Do not remove the clear rear wheel side covers from your RadWagon. These help to keep hands and feet away from the moving wheels. Contact with the rear wheel can cause injury and damage to occur. Ensure hands and feet are always kept away from wheels when the bike is in motion.

It is always the user’s responsibility to ensure the passenger(s) loaded on the RadWagon do not interfere or impact the user’s ability to safely operate the RadWagon. Serious injury or death can occur if passenger(s) or cargo impact the user’s ability to safely operate the RadWagon.
It is the user’s responsibility to ensure the passenger(s) on the RadWagon are adequately experienced and healthy enough to safely ride as passengers. Serious injury or death can occur if passengers are inexperienced or in poor health or fitness, which could impact their ability to ride as passengers.

Never leave the bike unattended with children on the bicycle. Ensure children are removed from the bike before you look away or walk away from the bike, otherwise the bike could tip over and cause serious injury to your most precious cargo.

You MUST hold onto the bike whenever loading cargo. The kickstand is not designed to be used for loading cargo. Do not assume the bike is stable and balanced when using the kickstand. Always hold onto the bike when cargo is being loaded, in place, or attached to the bike by Rad Power Bikes.

Do not use the front brake by itself. Use both brakes for all braking operations. Braking with only the front brake can cause excessive stress on components, damage to the bike and parts, and/or loss of control.

A Note for Parents and Guardians
As a parent or guardian, you are responsible for the activities and safety of your child. The RadWagon is not designed for use by children under the age of 18. If you are carrying a passenger in a child safety seat, they must also be wearing a helmet. Additional safety information regarding helmets can be found in the Helmet section of this manual. Refer to Carrying Children section of this manual for more information on keeping children safe when being transported in an approved child safety seat attached to the Rear Cargo Deck of the RadWagon.
Carrying Cargo

Carrying a cargo load involves additional risks which require special attention and care to mitigate and manage. Braking, acceleration, and balancing are all significantly affected by the addition of cargo loaded on the RadWagon. You must become accustomed to the braking, steering, and operational adjustments required to safely operate the RadWagon with cargo. Users should practice riding on a flat and open area with light cargo before attempting to carry heavier loads.

**Notice:** The following list provides important tips for the safe operation of the RadWagon when used for carrying cargo.

- Cargo should be loaded as low as possible to lower the center of gravity and improve stability, but cargo should not interfere with any moving components or the ground.
- Ensure your loads are properly secured and periodically check that nothing loosens, risks interfering with any moving components, or could risk touching or dragging on the ground.
- Plan your route accordingly since a rider’s hill climbing ability, steering, and braking are all impacted when cargo is loaded on the RadWagon. Hills that are normally easy to climb and descend without cargo can become challenging and dangerous once cargo is loaded onto the bike.
- Become proficient at controlling the RadWagon with the cargo load in a flat and open area before riding on roads or hills.
Parking, Storage, and Transport

Please follow these basic parking, storage, and transport tips to ensure your bike is well cared for on and off the road.

- When pushing or carrying the bike manually, turn off the power to avoid accidental acceleration from the motor.
- Switch the power and any lights off to conserve battery. Remove the key from the bike and ensure the battery is locked to the frame in the off position or use the key to remove the battery and bring it with you for security.
- It is recommended to park indoors. If you must park outdoors in rain or wet conditions, you should only leave your bike from Rad Power Bikes outside for a few hours and proceed to park the bike in a dry location afterwards to allow all the systems to dry out. Much like a regular bike, use in wet conditions mandates a more regular maintenance schedule to ensure your bike does not become rusty, corroded, and to ensure all systems are always working safely.
- In public places, your bike from Rad Power Bikes must be parked in accordance with local rules and regulations.
- Locking up your bike is recommended to ensure your bike is secure and the chance of theft is reduced. Rad Power Bikes makes no claims or recommendations on the proper lock hardware or procedures to secure your bike, but we do recommend you take the appropriate precautions to keep your bike from Rad Power Bikes safe from theft.
- Do not park, store, or transport your bike from Rad Power Bikes on a rack not designed for the bike’s size and weight.
- Use a rack compatible with the width of tires used on your bike. Some racks may not accommodate all tire widths.
- When storing your bike or carrying your bike on a rack for transport, remove the battery to reduce the weight of the bike, make lifting and loading easier, and to protect the battery by transporting in the cab of a vehicle.
- Avoid transporting bike(s) from Rad Power Bikes on a vehicle rack during rain, as this may cause water damage to the electrical components. Contact Rad Power Bikes Product Support if you have questions about preventative measures.
Maintenance

Basic Bike Care

To ensure safe riding conditions you must properly maintain your bike from Rad Power Bikes. Follow these basic guidelines and see a certified, reputable bike mechanic at regular intervals to ensure your bike is safe for use and fun to ride. See the Pre-Ride Safety Checklist and Recommended Service Intervals sections below for more detailed information.

1. Properly maintain batteries by keeping them fully charged when between uses of up to two weeks apart. See this manual’s Long-Term Battery Storage section for information on storing battery longer than two weeks between rides.
2. Never immerse or submerge the bike or any components in water or liquid as the electrical system may be damaged.
3. Periodically check wiring and connectors to ensure there is no damage and the connectors are secure.
4. To clean, wipe the frame with a damp cloth. If needed, apply a mild non-corrosive detergent mixture to the damp cloth and wipe the frame. Dry by wiping with a clean, dry cloth.
5. Store under shelter; avoid leaving the bike in the rain or exposed to corrosive materials. If exposed to rain, dry your bike afterwards and apply anti-rust treatment to chain and other unpainted steel surfaces.
6. Riding on the beach or in coastal areas exposes your bike to salt, which is very corrosive. Wipe down your bike frequently and wipe or spray all unpainted parts with anti-rust treatment. Damage from corrosion is not covered under warranty so special care should be given to extend the life of your bike when used in coastal areas or areas with salty air or water.
7. If the hub and bottom bracket bearings have been submerged in water or liquid, they should be taken out and re-greased. This will prevent accelerated bearing deterioration.
8. If the paint has become scratched or chipped in the metal, use touch up paint to prevent rust. Clear nail polish can also be used as a preventative measure.
9. Regularly clean and lubricate all moving parts, tighten components, and adjust as required.
10. The RadWagon comes equipped with a full fender set as well as a rear rack (Rear Cargo Deck) both of which should be inspected to ensure mounting hardware is properly secured and these parts are in good working condition.
Tire Inflation and Replacement

The RadWagon employs 26” x 2.3” (66 x 5.8 cm) rubber tires with inner tubes. The tires are designed for durability and safety for regular cycling activities and the tires need to be checked before each use for proper inflation and condition. Proper inflation, care, and timely replacement will help ensure the bike’s operational characteristics will be maintained, and unsafe conditions avoided.

Rad Power Bikes recommends **50-60 PSI (3.4 - 4.1 bar)** for the front and rear tires on the RadWagon.

- It is critically important that proper air pressure is always maintained in pneumatic tires. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Failure to always maintain the air pressure rating indicated on pneumatic tires may result in tire and/or wheel failure.

- Inflate your tires from a regulated air source with an available pressure gauge. Inflating your tires from an unregulated air source could overinflate them, resulting in a burst tire.

Even tires equipped with built-in flat-preventative tire liners, like those that come with 2019 bikes from Rad Power Bikes, can and do get flats from punctures, pinches, impact, and other causes. When tire wear becomes evident or a flat tire is discovered, tires and/or tubes must be replaced before operating the bike or injury to operators and/or damage to your bike from Rad Power Bikes could occur.

- When changing a tire or tube, ensure that all air pressure has been removed from the inner tube prior to removing tire from the rim. Failure to remove all air pressure from the inner tube could result in serious injury.

- Using aftermarket tires or inner tubes, not provided by Rad Power Bikes may void your warranty, create an unsafe riding condition, or damage your bike from Rad Power Bikes. If required by law, ensure replacement aftermarket tires have sufficient reflective sidewall striping.

For more information on tire or tube replacement procedures, or questions about tire inflation, visit [www.radpowerbikes.ca/help](http://www.radpowerbikes.ca/help) and contact Rad Power Bikes Product Support.

Email: can-support@radpowerbikes.com  
Call: 1-877-299-9404 x 203
**Notice:** Before every ride, and after every 40-72 km (25-45 miles), we advise following the pre-ride safety checklist in the table below.

<table>
<thead>
<tr>
<th>Safety Check</th>
<th>Basic Steps</th>
</tr>
</thead>
</table>
| 1. Brakes          | - Ensure front and rear brakes work properly.  
                      - Check brake pads for wear and ensure they are not over-worn.  
                      - Ensure brake pads are correctly positioned in relation to the rims.  
                      - Ensure brake control cables are lubricated, correctly adjusted, and display no obvious wear.  
                      - Ensure brake control levers are lubricated and tightly secured to the handlebar.  
                      - Test brake levers are firm and that brake, motor cutoff functions, and brake light are functioning properly. |
| 2. Wheels and Tires| - Ensure tires are inflated to within the recommended limits displayed on the tire sidewalls and holding air.  
                      - Ensure tires have good tread, have no bulges or excessive wear, and are free from any other damage.  
                      - Ensure rims run true and have no obvious wobbles, dents, or kinks.  
                      - Ensure all wheel spokes are tight and not broken.  
                      - Check axle nuts and front wheel quick release to ensure they are tight. Ensure the locking lever on the quick release skewer is correctly tensioned, fully closed, and secure position. |
| 3. Steering        | - Ensure handlebar and stem are correctly adjusted and tightened and allow proper steering.  
                      - Ensure the handlebar is set correctly in relation to the forks and the direction of travel.  |
| 4. Chain           | - Ensure the chain is oiled, clean, and runs smoothly.  
                      - Extra care is required in wet, salty/otherwise corrosive, or dusty conditions  |
| 5. Bearings        | - Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling.  
                      - Check headset, wheel bearings, pedal bearings, and bottom bracket bearings.  |
| 6. Cranks and Pedals| - Ensure pedals are securely tightened to the cranks.  
                      - Ensure the cranks are securely tightened and are not bent.  |
7. Derailleurs
- Check that the derailleurs are adjusted and functioning properly.
- Ensure shifter and brake levers are attached to the handlebar securely.
- Ensure all brake and shift cables are properly lubricated.

8. Frame, Fork, and Seat
- Check that the frame and fork are not bent or broken.
- If either frame or fork are bent or broken, they should be replaced.
- Check that the seat is adjusted properly, and seat post quick release lever is securely tightened.

9. Motor Drive Assembly and Throttle
- Ensure hub motor is spinning smoothly and motor bearings are in good working order.
- Ensure all power cables running to hub motor are secured and undamaged.
- Make sure the hub motor axle bolts are secured and all torque arms and torque washers are in place.

10. Battery
- Ensure battery is charged before use.
- Ensure there is no damage to battery.
- Lock battery to frame and check to see that it is secured.
- Charge and store bike and battery in a dry location, between 10 °C – 25 °C.
- Let bike dry completely for using again.

11. Electrical Cables
- Look over connectors to make sure they are fully seated, free from debris or moisture.
- Check cables and cable housing for obvious signs of damage.
- Ensure headlight, tail light, and brake light are functioning, adjusted properly, and unobstructed.

12. Accessories
- Ensure all reflectors are properly fitted and not obscured.
- Ensure all other fittings on bike are properly secured and functioning.
- Inspect helmet and other safety gear for signs of damage.
- Ensure rider is wearing helmet and other required riding safety gear.
- Ensure mounting hardware is properly secured if fitted with rear rack.
- Ensure taillight and taillight power wire are properly secured if fitted with rear rack.
- Ensure fender mounting hardware is properly secured if fitted with fenders.
- Ensure there are no cracks or holes in fenders if fitted with fenders.

Your cables, spokes, and chain will stretch after an initial break-in period of 80-160 km (50-100 mi), and bolted connections can loosen. Always have a certified, reputable bike mechanic perform a tune-up on your RadWagon after your initial break-in period of 80-160 km (50-100 mi) (depending on riding conditions such as total weight, riding characteristics, and terrain). Regular inspections and tune-ups are particularly important for ensuring that your bike remains safe and fun to ride.
**Recommended Service Intervals**

Regular inspection and maintenance are key to ensure bikes by Rad Power Bikes function as intended, and to reduce wear and tear on their systems. Recommended service intervals are meant to be used as guidelines. Real world wear and tear, and the need for service, will vary with conditions of use. We generally recommend inspections, service, and necessary replacements be performed at the time or mileage interval that comes first in the following table.

<table>
<thead>
<tr>
<th>Interval</th>
<th>Inspect</th>
<th>Service</th>
<th>Replace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly, 160-321 km</td>
<td>- Check hardware for proper torque: See Recommended Torque Values chart.</td>
<td>- Clean frame by wiping frame down with damp cloth.</td>
<td>- Replace any components confirmed by Rad Power Bikes Product Support or a certified, reputable bike mechanic to be damaged beyond repair or broken.</td>
</tr>
<tr>
<td></td>
<td>- Check drivetrain for proper alignment and function (including the chain, freewheel, chainring, and derailleur).</td>
<td>- Use barrel adjuster(s) to tension derailleur/brake cables if needed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Check wheel trueness and for quiet wheel operation (without spoke noise).</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Check condition of frame for any damage</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Clean frame by wiping frame down with damp cloth.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Use barrel adjuster(s) to tension derailleur/brake cables if needed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monthly, 402-1207 km</td>
<td>- Check brake pad alignment, brake cable tension.</td>
<td>- Clean and lubricate drivetrain.</td>
<td>- Replace brake and shift cables if necessary.</td>
</tr>
<tr>
<td></td>
<td>- Check bike is shifting properly, proper derailleur cable tension.</td>
<td>- Check crankset and pedal torque.</td>
<td>- Replace brake pads if necessary.</td>
</tr>
<tr>
<td></td>
<td>- Check chain stretch.</td>
<td>- Clean and optionally lubricate brake and shift cables.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Check brake and shifter cables for corrosion or fraying.</td>
<td>- True and tension wheels if any loose spokes are discovered.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Check spoke tension.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Check accessory mounting (rack mounting bolts, fender hardware, and alignment).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Every 6 Months, 1207-2011 km</td>
<td>- Inspect drivetrain (chain, chainring, freewheel, and derailleur).</td>
<td>- Standard tune-up by certified, reputable bike mechanic is recommended.</td>
<td>- Replace brake pads.</td>
</tr>
<tr>
<td></td>
<td>- Inspect all cables and housings.</td>
<td>- Grease bottom bracket.</td>
<td>- Replace tires if necessary.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Replace cables and housings if necessary.</td>
</tr>
</tbody>
</table>
## Troubleshooting

### Basic Troubleshooting

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Possible Causes</th>
<th>Most Common Solutions</th>
</tr>
</thead>
</table>
| 1 It doesn’t work                     | 1. Insufficient battery power  
2. Faulty connections  
3. Battery not fully seated in tray  
4. Improper turn on sequence  
5. Brakes are applied                  | 1. Charge the battery  
2. Clean and repair connectors  
3. Install battery correctly  
4. Turn on bike with proper sequence  
5. Disengage brakes                   |
| 2 Irregular acceleration and/or reduced top speed | 1. Insufficient battery power  
2. Loose or damaged throttle                  | 1. Charge or replace battery  
2. Replace throttle                        |
| 3 When powered on the motor does not respond | 1. Loose wiring  
2. Loose or damaged throttle  
3. Loose or damaged motor plug wire  
4. Damaged motor                        | 1. Repair and or reconnect  
2. Tighten or replace  
3. Secure or replace  
4. Repair or replace |
| 4 Reduced range                        | 1. Low tire pressure  
2. Low or faulty battery  
3. Driving with too many hills, headwind, braking, and/or excessive load  
4. Battery discharged for long period of time without regular charges (aged or damaged)  
5. Brakes rubbing | 1. Adjust tire pressure  
2. Check connections or charge battery  
3. Assist with pedals or adjust route  
4. Replace the battery  
5. Adjust the brakes |
| 5 The battery won’t charge             | 1. Charger not well connected  
2. Charger damaged  
3. Battery damaged  
4. Wiring damaged | 1. Adjust the connections  
2. Replace  
3. Replace  
4. Repair or replace |
| 6 Wheel or motor makes strange noises  | 1. Damaged motor bearings  
2. Damaged wheel spokes or rim  
3. Damaged motor wiring                  | 1. Replace  
2. Repair or replace  
3. Repair or replace motor. |
Error Detection

Your bike from Rad Power Bikes is equipped with an error detection system integrated into the display and controller. In the case of an electronic control system fault an error code should display.

If your bike has an error code displayed at any time it is recommended that you cease operation and contact Rad Power Bikes immediately.

The following error codes are the most common and can aid in troubleshooting. Information on error codes can also be found at www.radpowerbikes.ca/help.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Abnormal Current</td>
</tr>
<tr>
<td>22</td>
<td>Throttle Fault</td>
</tr>
<tr>
<td>23</td>
<td>Motor Phase Fault</td>
</tr>
<tr>
<td>24</td>
<td>Motor Hall Fault</td>
</tr>
<tr>
<td>25</td>
<td>Brake Switch Fault or Brake Applied While Turning On</td>
</tr>
<tr>
<td>30</td>
<td>Communication Fault</td>
</tr>
</tbody>
</table>
Warnings and Safety

General Operating Rules

Notice: It is recommended that users pay special attention to all the general operating rules below before operating their bike from Rad Power Bikes.

- When riding, obey the same road laws as all other road vehicles as applicable by law in your area.
- For additional information regarding traffic/vehicles laws, contact the road traffic authority in your area.
- Ride predictably, in a straight line, and with the flow of traffic. Never ride against traffic.
- Use correct hand signals to indicate turning.
- Ride defensively; to other road users you may be hard to see.
- Concentrate on the path ahead. Avoid potholes, gravel, wet or oily roads, wet leaves, curbs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards, and puncture flat risks.
- Cross train tracks at a 90-degree angle or walk your bike across.
- Expect the unexpected such as opening car doors or cars backing out of driveways.
- Be careful at intersections and when preparing to pass other vehicles or other cyclists.
- Familiarize yourself with all the features and operations of the bike by Rad Power Bikes. Practice and become proficient at shifting gears, applying the brakes, using the power assist system, and using the throttle in a controlled setting before riding in riskier conditions.
- Wear proper riding clothes including closed-toe shoes. If you are wearing loose pants, secure the bottom using leg clips or elastic bands to prevent them from being caught in the chain or gears. Do not use items that may restrict your hearing.
- Check your local rules and regulations before carrying cargo.
- When braking, apply the rear brake first, then the front brake. If brakes are not correctly applied, they may lock up, you may lose control, and you could fall.
- Maintain a comfortable stopping distance from all other objects, riders, and vehicles. Safe braking distances are based on forces such as road surface and light conditions among other variables.
Safety Notes

The following safety notes provide additional information on the safe operation of your bike from Rad Power Bikes and should be closely reviewed. Failure to review these notes and obey these instructions can lead to serious injury or death.

- All users must read and understand this manual before their first use of the bike from Rad Power Bikes. Additional manuals for components used on the bike may also be provided and should be read before use in addition to this manual.
- Ensure that you comprehend all instruction and safety notes/warnings. Contact Rad Power Bikes if you have any questions.
- Ensure the bike fits you properly before your first use. You may lose control or fall if your bike is too big or too small.
- Always wear an approved bicycle helmet whenever using this product and ensure that all helmet manufacturer instructions are used for fit and care of your helmet. Failure to wear a helmet when riding may result in serious injury or death.
- Ensure correct setup and tightening is performed on your bike before first using it and check the setup, tightening, and condition regularly.
- It is your responsibility to familiarize yourself with the laws and requirements of operating this product in the area(s) where you ride.
- Ensure the handlebar grips are undamaged and properly installed. Loose or damaged grips can cause you to lose control and fall.
- Do not use this product with standard bike trailers, stands, vehicle racks, or accessories that Rad Power Bikes has not tested for safety and compatibility and are verified as safe and compatible with the bike. Contact Rad Power Bikes to check if your equipment will work with the bike.
- Off-road riding requires close attention, specific skills, and presents variable conditions and hazards which accompany the conditions. Wear appropriate safety gear and do not ride alone in remote areas. Check local rules and regulations if off-road ebike riding is allowed.
- Engaging in extreme riding is extremely dangerous and should be avoided. Although many articles/advertisements/catalogs depict extreme riding, this is not recommended nor permitted, and you can be seriously injured or killed if you perform extreme riding.
- Bikes and bike parts have strength and integrity limitations and extreme riding should not be performed as it can damage bike components and/or cause or lead to dangerous riding situations in which you may be seriously injured or killed.
- Failure to perform and confirm proper installation, compatibility, proper operation, or maintenance of any component or accessory can result in serious injury or death.
- After any incident, you must consider your bike unsafe to ride until you consult with a certified, reputable bike mechanic for a comprehensive inspection of all components, functions, and operations of the bike.
- Failure to properly charge, store, or use your battery will void the warranty and may cause a hazardous situation.
- You should check the operation of the brake motor cutoff switches before each ride. The brake system is equipped with an inhibitor which cuts off power to the electric motor whenever the brakes are engaged. Check proper operation of brake motor cutoff switches before riding.
- Extreme care should be taken when using the pedal assistance sensor and throttle on this product. Ensure you understand and are prepared for the power assistance to engage as soon as pedaling is underway.
Users must understand the operation of the twist throttle and pedal assistance sensors before using the bike and take ample care in their usage in respect to traveling at speeds appropriate for the usage area, riding conditions, and user experience level. Always use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power.

- Any aftermarket changes to your bike from Rad Power Bikes not expressly approved by Rad Power Bikes could void the warranty and create an unsafe riding experience.
- Because electric bikes are heavier and faster than normal bikes, they require extra caution and care while riding.
- Take extra care while riding in wet conditions. Feet or hands can slip in wet conditions and lead to serious injury from a fall or death.
- Do not remove any reflectors or the bell.

Helmets

It is strongly advised that a properly fitting ANSI or SNELL approved bicycle safety helmet is always worn when riding your bike.

Always wear a properly fitted helmet which covers the forehead when riding a bike. Many locations require specific safety devices. It is your responsibility to familiarize yourself with the local laws, rules and regulations where you ride and to comply with all applicable laws, including properly equipping yourself and your bike as the law requires.

General Warnings

Read and understand all sections of this entire manual before operating the bike for the first time. There are important safety warnings throughout the whole manual that must be followed to prevent dangerous situations, accidents, and possible injury and/or death.

Like any sport, bicycling involves risk of damage, injury, and death. By choosing to ride a bike, you assume the responsibility for that risk, so you need to know, and practice the rules of safe and responsible riding and the proper use and maintenance of this bike. Proper use and maintenance of your bike reduces risk of damage, injury, and death.

Biking and controlled substances do not mix. Never operate a bike while under the influence of alcohol, drugs, or any substance or condition that could impair motor functions, judgement, or the ability to safely operate a bike/vehicle.
The RadWagon is designed for use by persons 18 years old and older. Riders must have the physical condition, reaction time, and mental capability to ride safely and manage traffic, road conditions, sudden situations, and respect the laws governing electric bike use where they ride, regardless of age. If you have an impairment or disability such as a visual impairment, hearing impairment, physical impairment, cognitive/language impairment, a seizure disorder, or any other physical condition that could impact your ability to safely operate a vehicle, consult your physician before riding any bike.

Wet Weather

It is recommended to not ride in wet weather if avoidable. Ride in wet weather only if necessary.

This electric bike is not meant for use in puddles, heavy rain, or streams. Never immerse or submerge this product in water or liquid as the electrical system may be damaged.

- In wet weather you need to take extra care when operating this bike.
- Decrease riding speed to help you control the bike in slippery conditions.
- Brake earlier since it will take longer to slow than when operated in dry conditions.
- Take care to be more visible to others on the road. Wear reflective clothing and use approved safety lights.
- Road hazards are more difficult to see when wet; proceed with caution.

Night Riding

It is recommended to not ride at night if avoidable. Ride at night only if necessary.

- Wear reflective and light-coloured clothing.
- Slow down and use familiar roads with street lighting, if possible.
- Ensure tire wall, pedal, and other reflectors are installed and unobstructed.
- Ensure head light and tail light/brake light are functioning correctly and use them.
Limited Warranty

Warranty Info

Every bike by Rad Power Bikes is covered under a manufacturer's one-year all-inclusive warranty for the original owner against all manufacturing defects. Rad Power Bikes warrants this product, including all individual components against defects in material or workmanship as follows:

RAD POWER BIKES LIMITED 1 YEAR WARRANTY

Warranty details below are subject to change at any time; for the most current warranty version, visit www.radpowerbikes.ca/warranty. Rad Power Bikes’ bike components including frame, forks, stem, handlebar, headset, seat post, seat saddle, brakes, lights, bottom bracket, crank set, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, motor, throttle, controller, wiring harness, LCD display, kickstand, reflectors, and hardware are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase.

Rad Power Bikes’ lithium ion batteries are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase. The battery warranty does not include damage from power surges, use of improper charger, improper maintenance or other such misuse, disassembly, normal wear, or water damage.

Warranty Exclusions

- Liability for material defects does not cover normal wear and tear, which occurs from the manufacturers’ intended use of the product. Components such as the battery, motor system, braking system, drivetrain system, seat, grips and pedals are all subject to intended use-related wear and are not covered under the warranty from normal wear.
- Damage arising from the use of the bike in a competition or other applications outside of normal intended use.
- Damage arising from improper tools, improper assembly, or improper maintenance performed on the bike.
- Damage resulting from adding non-standard equipment, parts, or modifications.
Additional Warranty Terms

This warranty does not cover any damage or defects resulting from failure to follow instructions in the owner’s manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, wear and tear, installation of parts or accessories not originally intended or compatible with the bike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance. This warranty does not include normal wear and tear, or consumable parts designed to wear down over time, including tires, tubes, brake pads, cables and housing, spokes, and handlebar grips.

Rad Power Bikes will not be liable and/or responsible for any damage, failure, or loss caused by any unauthorized service or use of unauthorized parts. In no event shall Rad Power Bikes be responsible for any direct, indirect, or consequential damages, including without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, or product liability in connection with their products. All claims to this warranty must be made through Rad Power Bikes. Proof of purchase is required with any warranty request.

Additional Information on Wear

Components of the RadWagon are subject to higher wear when compared to bikes without power assistance. This is because the RadWagon can travel at higher average speeds than regular cycles and has a greater weight. Higher wear is not a defect in the product and is not subject to warranty. Typical components affected are the tires, brake pads and rotors, suspension forks, spokes, wheels, and the battery.

When the useful life of a component is surpassed it can cause unexpected loss of function. This can result in serious injuries or even death. Therefore, pay attention to wear characteristics such as cracks, scratches, or changes in the colour or operation of components which could indicate useful life has been exceeded. Worn components should be replaced immediately. If you are unfamiliar with regular maintenance, a certified, reputable bike mechanic should be consulted.
Link to Assembly Video and Online Resources

Assembly Video
Please visit the “Help Center” section of the Rad Power Bikes website (www.radpowerbikes.ca/help) to view the official RadWagon Assembly Video.

Online Resources
For more information on best practices, please visit the Rad Power Bikes website (www.radpowerbikes.ca), Help Center (www.radpowerbikes.ca/help), or contact our Rad Power Bikes Product Support team with any questions.

Email: can-support@radpowerbikes.com
Call: 1-877-299-9404 x 203

We are here to help! If you have questions, please:

Access Rad Power Bikes Help Center (www.radpowerbikes.ca/help),

Contact us directly at can-support@radpowerbikes.com, or

Call Rad Power Bikes Product Support 1-877-299-9404 x 203.

Thanks for Riding RAD!