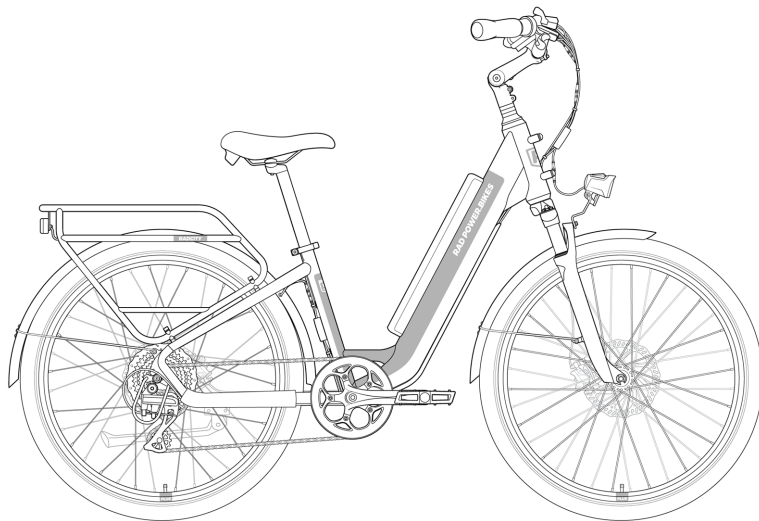
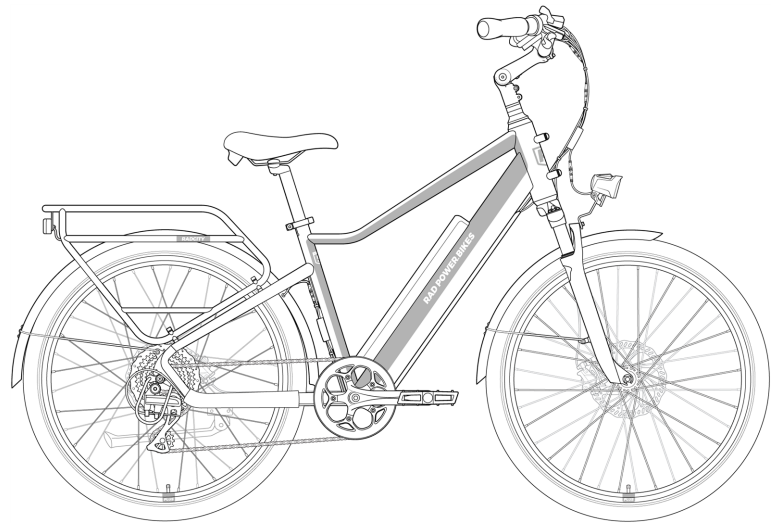






RadCity™ 5 Plus

OWNER'S MANUAL




Everyone at Rad Power Bikes cares about your safety and the safety of those around you. We want you to thoroughly enjoy your amazing ebike safely and reliably for many years to come.

 **WARNING:** DO NOT alter or modify anything in your ebike's electrical system, battery, digital controls, physical components, or drive train. Doing so may void your warranty. Any such modifications may result in damage to your ebike, other property, or injury or death to you or others.

 **WARNING:** This ebike is not to be operated by anyone under the age of 16. Children under the age of 16 may lack the necessary judgment and skill to safely operate the ebike, potentially resulting in damage to the ebike, damage to other property, serious injury, and/or death. Please also check your local laws, which may require a higher age. It is your responsibility to know and obey local regulations regarding rider age and other qualifications.




MINIMUM
OPERATOR AGE

 **DANGER:** Riding any bike, ebike, or similar vehicle without a helmet puts you at VERY HIGH RISK of serious head injury or death. Always wear a properly fitted helmet that covers the forehead. Many locations require specific safety devices. It is your responsibility to familiarize yourself and comply with the laws, rules, and regulations where you ride.



WEAR A HELMET

 **WARNING:** Any bike, ebike, or similar vehicle is subject to wear and tear, and certain components and fasteners can stretch or loosen with the vibrations and stress of normal operation. You must check your ebike before each ride and according to the other checklists in this manual. Failure to do so could result in property damage, serious injury, or death.



PRE-RIDE CHECK
rad-go.com/safety

Please read, understand, and follow all safety notices, cautions, and warnings in this manual and for any accessories or attachments you add to make your ebike perfect for you. **Stay safe! Ride Rad!**

Welcome to the Radventure!

Thank you for purchasing the RadCity™ 5 Plus 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 ebike. The latest version of your manual, your assembly video, and other helpful content is available at the QR code and URL at right.

Be sure to check all hardware for correct torque (see [“Tools and torque specifications” on page 11](#)) during assembly. Before each ride, follow the recommendations in the [“Safety checklists” on page 33](#). Finally, take care of your new RadCity by following the guidelines in [“Recommended service intervals” on page 36](#). If you're not sure you have the skills, experience, and special tools required for assembly and maintenance, get help from a local, professional, and reputable bike mechanic.

WE ARE HERE TO HELP! If you have questions after reading this manual and watching the assembly video, please consult the Rad Power Bikes Help Centre at radpowerbikes.eu/help.

Thanks for riding Rad!


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Using this manual

This manual contains critical details about how to safely operate and maintain your RadCity. Read it carefully and familiarize yourself with your ebike before riding it. Pay special attention to the safety messages shown here.

 **NOTICE:** A “notice” is important information that can help you avoid ebike/property damage or extend the life of parts and the ebike.



CAUTION: A “caution” indicates a hazardous situation that, if not avoided, could result in minor or moderate injury or property damage.



WARNING: A “warning” indicates a hazardous situation that, if not avoided, could result in death, serious injury, or property damage.



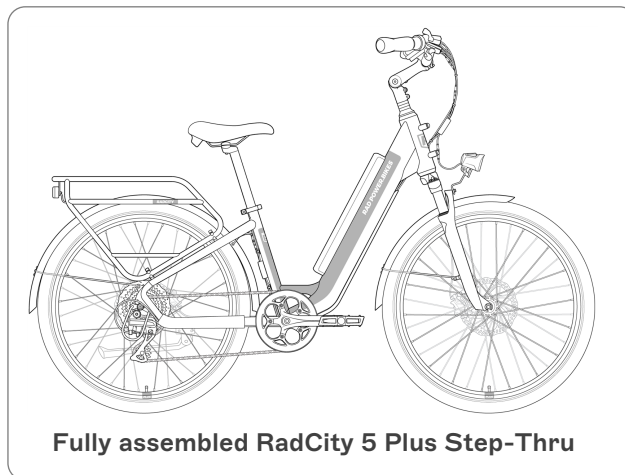
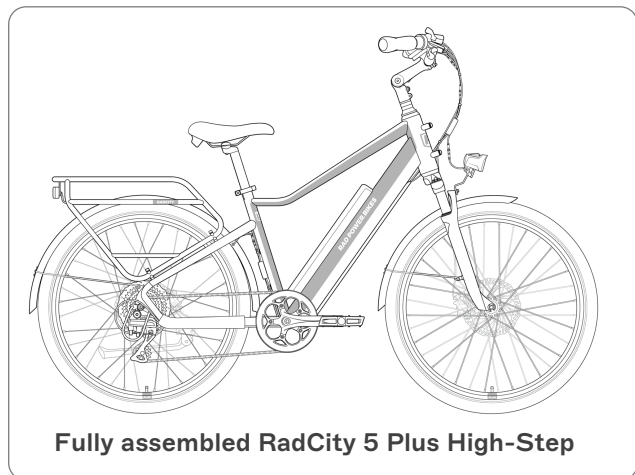
DANGER: A “danger” statement indicates a hazard that, if not avoided, has a very high risk of death, serious injury, or property damage.

Operating any bike, trike, or other vehicle always involves some risk of serious injury or death. Your safety depends on many factors including your skill, your ebike’s maintenance, and riding conditions. There are also factors you cannot control or anticipate. This manual makes no representations about the safe use of this product under all possible conditions. If you have any questions you should contact Rad Power Bikes immediately.

Assembly and first adjustment of your ebike from Rad Power Bikes requires special tools and skills. We recommend that you have this done by a professional, reputable bike mechanic. Keep this manual and any other documents that came with your RadCity. All content in this manual is subject to change or withdrawal without notice. Visit radpowerbikes.eu/manual to view and download the latest version. 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 instructions for the RadCity

The following steps provide an overview of how to assemble your RadCity 5 Plus from Rad Power Bikes. They are not a complete or comprehensive manual of all aspects of assembly, maintenance, and repair, which involve specialized tools and skills. We recommend you consult a certified, reputable bike mechanic to assist in the assembly, repair, and maintenance of your RadCity.



Please note that your ebike may include components that look different from those in this manual's illustrations. Such changes help ensure uninterrupted production and shipping. Our engineers rigorously test each component to guarantee quality and compatibility.

WARNING: Incorrect assembly, maintenance, or use of your ebike can cause component or performance failure, loss of control, serious injury, or death. Even if you're an experienced bike rider, **you must read and understand the entire manual and any documentation provided for subcomponents or accessories before riding.** If you are not sure you have the experience, skills, and/or tools to correctly perform all assembly steps in the manual and the assembly video at radpowerbikes.eu/manual, have a local, professional, reputable bike mechanic assemble your ebike.

1. **Unpack the ebike.** Open the bike box and, with the help of another person capable of safely lifting a heavy object, remove the ebike and place it upright on the back wheel and front fork protector plate. Carefully remove the packaging material protecting the bike frame and components. Keep the packaging materials in case you want to ship the bike later. Otherwise, recycle these materials, especially cardboard and foam, wherever possible. Remove the small box and carefully set out the contents. **Ensure all of the following items are included with the ebike:**

- Front wheel
- Front fender/mudguard
- Charger
- Headlight
- Headlight and fender/mudguard mounting hardware
- Pedals (left and right)
- Keys
- Manual(s)
- Front wheel quick release (in fork protector plate)
- Stem bolt hole cover
- Assembly toolkit

If anything is missing, please contact Rad Power Bikes.

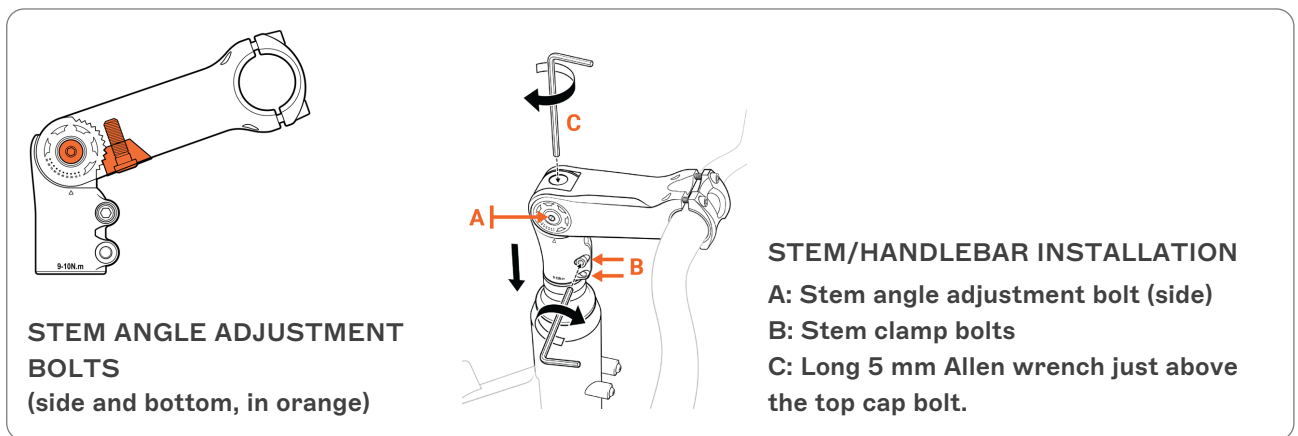
We also recommend the following (not included) for assembly and maintenance:

- A strong friend
- Flat-side cutters
- 15 mm pedal wrench
- Bicycle grease
- Clean shop towel or paper towel for cleaning excess grease
- Bike pump with Schrader valve and pressure gauge
- Torque wrench (3 Nm-60 Nm) with Allen bits

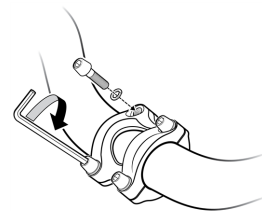
2. **Install the handlebar** as shown in the RadCity assembly video available at radpowerbikes.eu/assemble.
 - a. **Determine whether you can reach the internal top-cap bolt with the long 5 mm Allen wrench**, shown as "C" in the illustration "[Stem/handlebar installation](#)" on the next page. If the top-cap bolt is not visible, loosen the side stem angle adjustment bolt (see "[Stem angle adjustment bolts](#)" on the next page) and remove the

other stem angle adjustment bolt (on the underside of the stem). Rotate the stem until the top cap bolt can be reached with the long 5 mm Allen wrench.

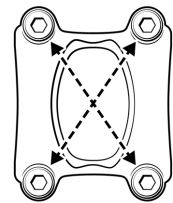
- b. **Orient the handlebar** so the brake levers face forwards and the shifter is on the rider's right side. Trace the brake housing from the left brake lever to the brake calliper and make sure the bundle of cables is not twisted.
- c. **Centre the stem and handlebar assembly onto the steerer tube.** Slide the stem onto the tube fully. If the stem does not slide down easily, loosen the stem clamp bolts (see "B" in ["Stem/handlebar installation" below](#)) by about two turns and try again (5 mm Allen wrench).
- d. **Tighten the internal top cap bolt using the long 5 mm Allen wrench.** Insert the long end of the tool into the top of the stem and into the top cap bolt head (see "C" in ["Stem/handlebar installation" below](#)). Turn clockwise just until the wrench becomes a bit harder to turn, and then turn the wrench another half-turn more.
- e. **Check that the headset is tight enough.** Press on the back or side of the stem and try to move it back and forth. There should be no movement inside the stem indicating the headset is tight enough for the next assembly steps. Later in the process you will test and fine-tune the headset tightness for riding.
- f. **Tighten the stem clamp bolts evenly (Allen wrench).** Orient the handlebar so that it is perpendicular to the frame. Tighten the stem clamp bolts one-quarter turn at a time, alternating between bolts until torqued evenly to the value in ["Tools and torque specifications" on page 11](#).



- g. **Position the handlebar correctly on the stem.** Your handlebar came loosely attached to the stem of your bike, so before you secure it, make sure it's centred on the stem and that the handlebar grips will be approximately parallel to the ground when the front wheel is installed. (You can fine-tune the positioning later.)
- h. **Tighten the stem faceplate bolts.** Use an Allen wrench to tighten each of the faceplate bolts by a quarter turn, following an "X" pattern. Repeat until the handlebar is secure. Ensure the gap between the faceplate and stem is even. Torque the bolts evenly to the value listed in ["Tools and torque specifications" on page 11](#).



Stem faceplate installation



Tighten bolts in an "X" pattern

3. **Install the front wheel onto the front fork** as explained below.

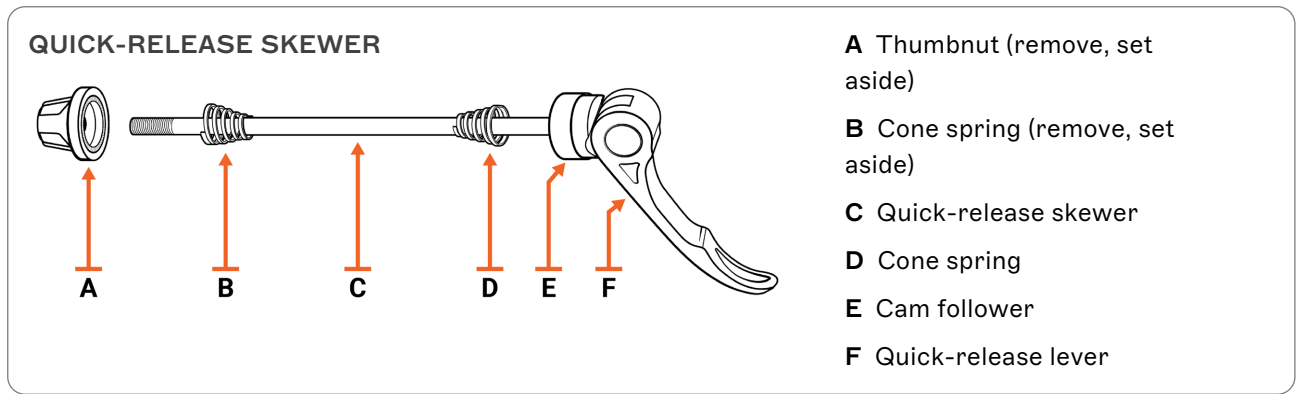


WARNING: Do not touch the brake rotor, which has sharp edges and can cause serious injury. Touching the brake rotor or brake pads with bare skin can also transfer natural oils. Oils or other lubricants can decrease braking performance. We recommend wearing protective gloves when working near the braking system.



- a. **Locate and remove the quick-release skewer from the front fork protector plate.** Open the lever, remove the thumbnut and cone spring on the opposite side,

and remove the skewer. Keep the cam follower (see “E” in the illustration that follows) and the other cone spring in place on the lever side.

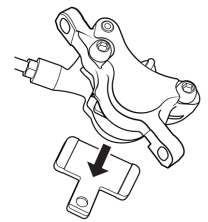


NOTICE: The “Quick-release skewer” illustration shows you the components you need to *retain*. You can discard the packaging that protected your front fork while shipping. That packaging includes a plastic fork protector plate and a protective, hollow, metal rod that the skewer went through. Temporary, protective spacers may be on that hollow rod and their materials can vary, e.g., may be black plastic or look like thick metal washers. Do not put those spacers onto the quick-release skewer.

- b. **Install the skewer through the front wheel hub, starting from the side of the wheel *without* the brake rotor.** Make sure to not touch the brake rotor. Reinstall the cone spring on the skewer. Ensure both cone springs point inward. Keep the lever open and thread on the thumbnut a couple of turns, leaving enough room for the fork dropouts.

- c. **Remove the hydraulic brake pad spacer** from the brake calliper on the front wheel.

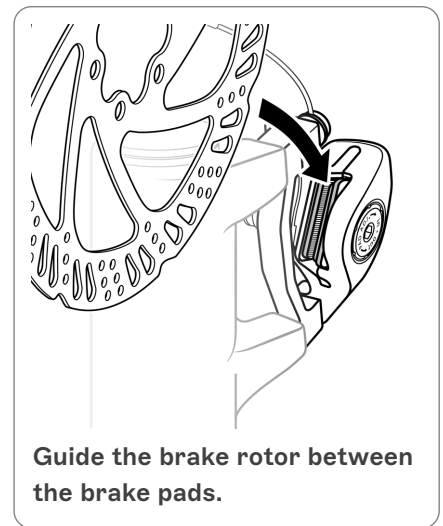
NOTICE: When the front wheel is not installed and the hydraulic brake pad spacer is absent, do NOT squeeze the brake levers. Doing so can cause the brake pads to clamp together too much and prevent the brake rotor from fitting between the pads. If this happens to you, install the brake pad spacer back between the pads to create more space between the brake pads for the brake rotor.



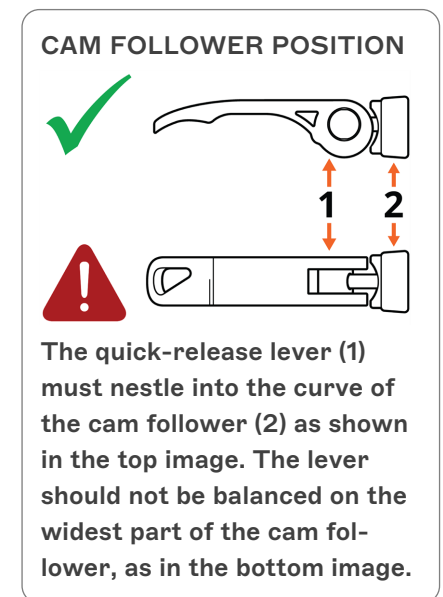
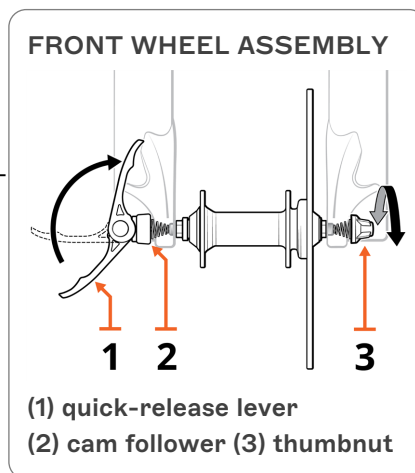
- d. **Have a friend hold the bike steady and fully upright until you have finished securing the quick-release lever.** Do not prop the ebike on its kickstand.
- e. **Lift the front of the bike,** removing it from the protective plate.

NOTICE: The front-fork packaging includes the fork protector plate as well as a metal spacer rod and, in some cases, smaller spacers that go around that rod. The smaller spacers may be black plastic, metal, or other materials, and may look like thick washers. You can recycle these packaging elements according to local rules. Just be sure to retain all of the components pictured in [“Quick-release skewer”](#) above.

- f. **Carefully lower the front fork onto the wheel.** Pay attention to the brake rotor: It needs to slide between the brake pads. Once the rotor is between the brake pads, guide the fork onto the wheel so that the wheel axle enters the fork dropouts. (The fork dropouts are the slots on each end of the fork that the wheel axle fits into.)
- g. **Double-check that the wheel is fully inserted into the dropouts,** that the wheel axle is level and parallel to the ground, and that the wheel is centred in the fork.
- h. **Make sure the quick-release lever is nestled into the curve of the cam follower,** as in the top image in the “Cam follower position” illustrations.
- i. **Make sure your friend is still holding the bike fully upright and steady,** which will ensure there’s even pressure on both sides of the axle. This is critical for the next step.
- j. **Secure the quick-release lever.**



NOTICE: The security and stability of your front wheel depends on very tight clamping force from the quick release lever. A properly adjusted quick-release lever requires great force to close or open.



- i. Open the quick-release lever all the way. Hold the thumbnut steady with one hand while you spin the quick-release lever clockwise with the other hand. Tighten the lever as much as you can by hand.
- ii. At this point, the lever should be too tight for you to close it halfway. Loosen it by a quarter spin and try to close the lever halfway again. Repeat until you can close the lever halfway.
- iii. Make sure the lever is angled so that when you close it, it won’t hit any bike components like the fork or a fender bracket, which could keep it from closing fully.
- iv. Close the lever. This *should* be difficult and should leave an imprint in your hand. **Fine-tuning the tightness of the lever can take several tries.**

WARNING: If you cannot exert great force on the quick release lever to close it, you must seek help from a professional bike mechanic. Failure to fully secure your front wheel can lead to serious injury or death.

- k. **Inspect your front wheel installation:**
 - Make sure the closed quick-release lever doesn’t touch any bike components such as the fork, which could keep it from closing fully.
 - Check that the same amount of dropout is visible under the axle on each side of the bike. (If there’s a difference, your axle is not fully inserted into both dropouts, and you’ll need to repeat the previous steps starting at the point where you check that both cone springs are pointing inward.)
- l. **Test your front wheel installation** using these three tests:
 - With your friend holding the front wheel off the ground, spin the front wheel to ensure it has no wobble or looseness.

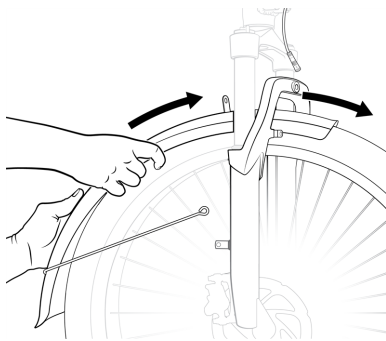
- While straddling the bike with hands on the handlebars, squeeze the front-brake lever with your left hand. Rock the bike forwards and backwards. Ensure the front brake prevents the front wheel from spinning and that there's no play or wiggle in the wheel, handlebar, or front fork.
 - Inspect the quick-release lever to ensure it has remained tightly closed.
- m. **Check the security of the rear wheel.** You must also check the torque value of the rear wheel axle nut to ensure it's correctly tightened (see [“Tools and torque specifications”](#) on page 11).

NOTICE: Inspect and test both wheels before each ride. Either wheel and other components can loosen over time and with the normal vibration of riding.

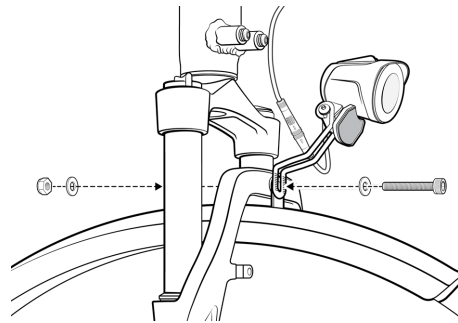
WARNING: An improperly secured front or rear wheel can cause loss of control, accidents, serious injury, or death. Check that the wheels are properly secured during assembly and before each ride.

4. **Install the front fender/mudguard and headlight.**

- Remove the front fender/mudguard from the rear of the bike.**
- Locate the bag with the fender/mudguard and headlight mounting hardware.**
- Pass the fender/mudguard from the back of the front wheel, under the fork arch, as shown below.**

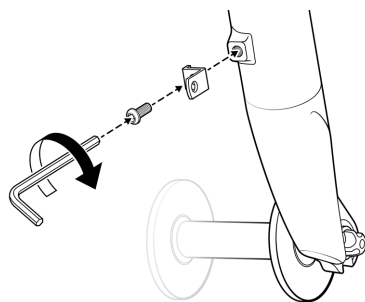


Pass the fender from the back of the front wheel

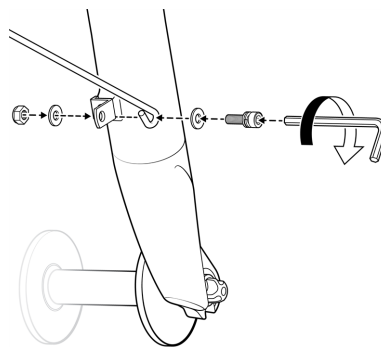


Headlight mounting hardware

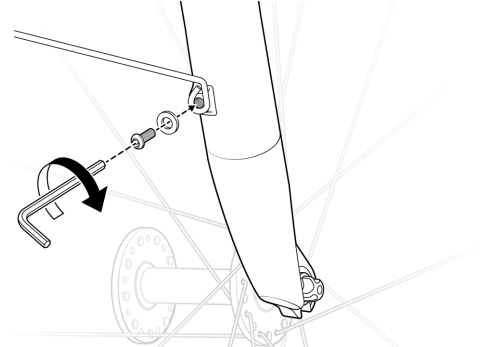
- Install the fender/headlight mounting hardware** through the headlight bracket, fender, and fork (5 mm Allen wrench and 10 mm wrench).
- Plug in the headlight connector.** Line up the internal notch and pins and external arrows, and press directly together without twisting.



L bracket installation (required on some bikes)



Fender mounting arm/hardware that uses an L bracket



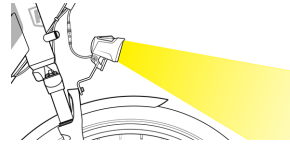
Fender mounting arm/hardware that does NOT use an L bracket

- Locate the fender/mudguard mounting hardware.** Some RadCity 5 Plus bikes come with a fender mounting arm that requires an L-shaped bracket; other RadCity 5 Plus bikes come with a different fender mounting arm that does not require an L bracket. Refer to the illustrations above for whatever version of the fender mounting arm and hardware that came with your bike.

Note: If your model came with an L bracket that was not pre-installed on the fork, thread in the bolt to attach

the L bracket to the mounting point on the back of the fork as shown in the illustrations. Tighten securely (Allen wrench). Repeat with the other L bracket on the other fork lower.

- g. **Secure the fender mounting arms.** Use the fender mounting hardware that came with your bike, following the appropriate illustration above. Tighten securely using a 4 mm Allen wrench (if your fender mounting hardware involves an L-bracket, you'll need an 8 mm wrench as well).
- h. **Check that the fender/mudguard and headlight are centred**, then torque the fender/mudguard mounting arm bolts according to the value in [“Tools and torque specifications” on page 11](#).
- i. **Adjust the headlight angle slightly downward** so it will not blind oncoming traffic. Use the tools listed in [“Tools and torque specifications” on page 11](#) to loosen the angle adjustment bolt and locknut, angle the headlight downwards, then tighten securely. Do not overtighten.

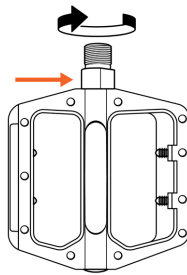


Headlight pointing slightly downwards to not blind others

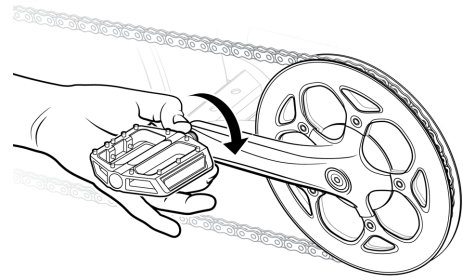
5. Install the pedals.

- a. **Locate the right-side pedal**, which is marked “R,” should have an “R” sticker attached, and has a smooth pedal axle. The right pedal goes on the crank on the drivetrain side of the bike, which has the chain and is the same as a rider’s right side when seated on the bike.

RIGHT PEDAL INSTALLATION



Right pedal with smooth pedal axle.



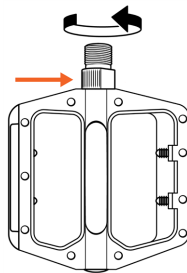
Thread the right pedal onto the right crank gently by hand, turning clockwise.

- b. **Place a pea-size or slightly smaller amount of bicycle grease onto the threads of the right pedal.**

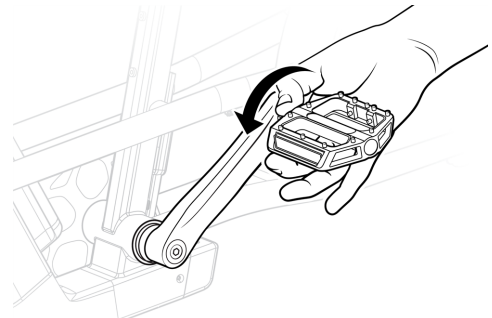
- c. **Carefully thread the right pedal onto the right crank by turning clockwise** (towards the front of the bike). Do so slowly and gently by hand. Do not cross thread or damage the threads. See the [“Right pedal installation”](#) illustrations.

- d. **Place a pea-size or slightly smaller amount of bicycle grease onto the threads of the left pedal.**

LEFT PEDAL INSTALLATION



Left pedal with notches on the pedal axle.



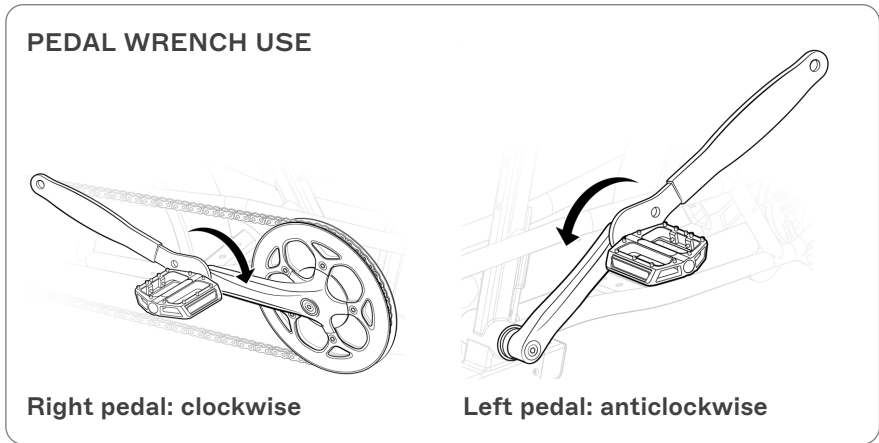
Thread the left pedal onto the left crank gently by hand, turning anticlockwise.

- e. **Carefully thread the left pedal onto the left crank by turning anticlockwise** (towards the front of the bike). The reverse-threaded left pedal is marked with an “L,” should have an “L” sticker attached, and has notches on the pedal axle. Thread slowly and gently by hand without cross-threading or damaging the threads. See the [“Left pedal installation”](#) illustrations.

f. **Tighten each pedal using a pedal wrench.** You can also use a torque wrench with a crowfoot bit for this task, but regular wrenches won't fit in the narrow space and may damage your pedal or crank.

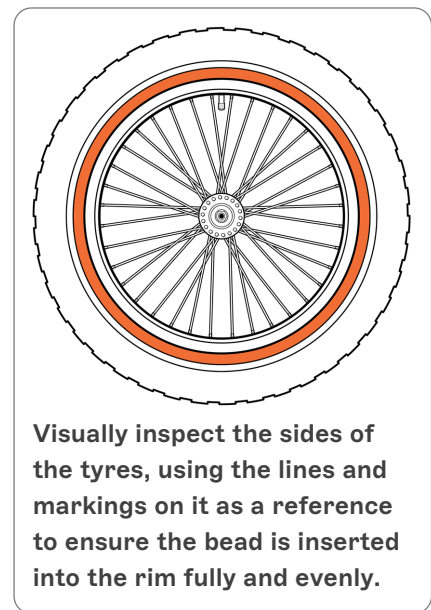
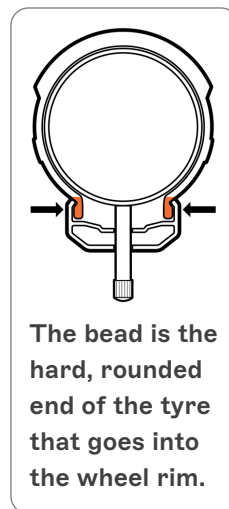
g. **Torque each pedal to 35 Nm.** An experience mechanic can torque properly with a pedal wrench, but if you're less experienced, use a torque wrench with a crowfoot bit.

h. **Wipe off any excess bicycle grease.**



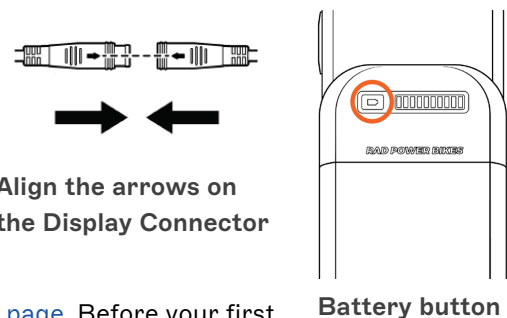
WARNING: Improperly or inadequately tightened pedals can fall off your bike while you're riding, leading to component damage, serious injury, or death. If you aren't sure how to tighten your pedals or don't have appropriate tools, please get help from a professional mechanic.

6. **Inflate the tyres.** Check that the tyre beads and tyres are evenly seated (fully inserted into the rims). Use a pump with a Schrader valve and pressure gauge to inflate each tyre to the recommended PSI (pounds per square inch) indicated on the tyre side-wall. Do not overinflate or underinflate tyres. For more information, see ["Tyre and wheel care" on page 38](#).



7. **Prepare your ebike's power system for use.** Your bike has been configured to ensure power isn't deployed to the motor during shipping. To ensure your ebike is ready for use, you will need to do one or both of the following:

- **Plug in the display connector.** Your display connector may come unplugged. If it does, you will find one of the cables at the front of the bike disconnected (it will have green connector ends). Line up the internal notch and pins, and external arrows, and press together without twisting.
- **Take your battery out of ship mode.** If your display connector comes connected, your battery is probably in ship mode to prevent accidental activation prior to assembly. To take it out of ship mode, press and hold the battery button for at least three seconds.



8. **Complete all steps in ["Adjusting for comfort and safety" on page 13](#)**, including checking that all hardware has been tightened according to the values in ["Tools and torque specifications" on the next page](#). Before your first ride, be sure to perform the safety checks in ["Safety checklists" on page 33](#) including the handlebar tests in ["Handlebar twist and push tests" on page 39](#).

Tools and torque specifications

The tool sizing listed below is a general guide, but it is possible that the head of a particular bolt on your ebike may vary, requiring a different tool (e.g., a 4 mm Allen wrench instead of a 5 mm Allen wrench). If so, use whatever tool fits the bolt head. Such differences will not affect the recommended torque for that piece of hardware.

If you are installing accessories from Rad Power Bikes, any necessary instructions, important safety information, and torque specifications will come with your accessory and/or be available online at radpowerbikes.eu/help.

	Tool	Torque spec
HANDLEBAR AREA		
Stem clamp bolts	5 mm Allen	10 Nm
Stem faceplate bolts	5 mm Allen	6 Nm
Stem angle adjustment bolt (side)	5 mm Allen	12 Nm
Stem angle adjustment bolt (bottom)	5 mm Allen	15 Nm
Rad UI Display clamp bolts	3 mm Allen	Tighten securely; do not over-tighten
Rad UI Remote clamp bolt	3 mm Allen	Tighten securely; do not over-tighten
Shifter clamp bolt	Phillips or flat head	6 Nm
Brake lever clamp bolts	5 mm Allen	6 Nm
Twist power assist clamp bolt	3 mm Allen	3 Nm
BRAKE AREA		
Calliper adapter to frame	5 mm Allen	6–8 Nm
Calliper to adapter	5 mm Allen	6–8 Nm
Brake pads to calliper	Cotter pin	n/a
Brake rotor to hub	T25 Torx bit	7 Nm
SEAT AREA		
Seat adjustment bolt	6 mm Allen	15 Nm
FRAME DOWNTUBE		
Controller mounting bolts	3 mm Allen	3 Nm
Frame cable cover bolts	2.5 mm Allen	Tighten securely; do not overtighten
REAR DROPOUT AREA		
Rear axle nuts	18 mm wrench	40 Nm
Torque arm bolt	4 mm Allen	5 Nm
Derailleur hanger mounting bolt	5 mm Allen	10 Nm
Derailleur mounting bolt	5 mm Allen	10 Nm
Derailleur cable clamp bolt	5 mm Allen	6–8 Nm

BOTTOM BRACKET AND CRANK AREA

Pedal into crank arm	15 mm pedal wrench	35 Nm
Crank arm removal info	Crank puller for square taper bottom bracket	n/a
Crank arm bolt into bottom bracket spindle	8 mm Allen	35 Nm
Freewheel removal information	Contact Rad Power Bikes Product Support	n/a
Chainring bolts	5 mm Allen	10 Nm
Kickstand mounting bolts	5 mm Allen	8 Nm
Bottom bracket and cups	BBT-22 Park Tool	60 Nm

ACCESSORIES

Headlight/front fender/mudguard mounting bolt	5 mm Allen and 10 mm wrench	6 Nm
Fender/mudguard mounting bolts (except at headlight)	4 mm Allen	6 Nm
Replaceable rear rack mounting bolts	5 mm Allen	6 Nm

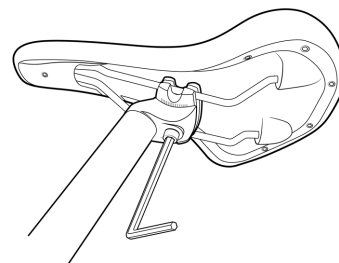
Adjusting for comfort and safety

The following steps are critical for your comfort and safety, and **must** be performed before your first bike ride. We recommend that you consult a bike fitting professional such as a certified, reputable bike mechanic who specializes in bike fit.

Seat angle and horizontal position

Many riders prefer the seat to be roughly parallel to the ground, with its horizontal position in the middle of the range marked on the seat rails. To change the angle and horizontal position of the seat:

1. Use a 6 mm Allen wrench to loosen (but do not remove) the seat adjustment bolt on the clamp located underneath the seat.
2. Move the seat backwards or forwards and tilt to adjust the angle. Do not exceed the limit markings etched into one of the seat rails, which show how far you can safely move the seat forwards and backwards.
3. Ensure the top of the seat rail clamp is aligned directly over the bottom of the clamp so that the seat adjustment bolt will clamp the seat rails properly. Then, while holding the seat in the desired position, use a 6 mm Allen wrench to tighten the seat adjustment bolt securely to the torque value listed in [“Tools and torque specifications” on page 11](#).



Seat adjustment bolt, Allen wrench

WARNING: A loose seat clamp or seat adjustment bolt can cause loss of control, ebike/property damage, serious injury, or death. Prior to first use, be sure to torque the seat adjustment bolt according to the specification in [“Tools and torque specifications” on page 11](#). Regularly check that bolt and make sure that the clamp on the underside of your seat is secure on the seat rails.

Seat height

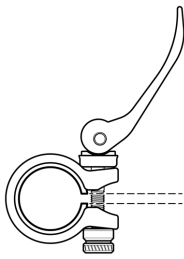
An ideal seat height will allow you to be comfortable and get the best pedalling efficiency. When you are seated, you should be able to place the ball of your foot on the pedal at its lowest position while your leg is almost fully extended, with your knee slightly bent. The seat should never be so high that you need to rock side to side or fully straighten your legs while pedalling. Never pull out the seatpost so far that the minimum insertion point is visible above the seat tube (see illustration).



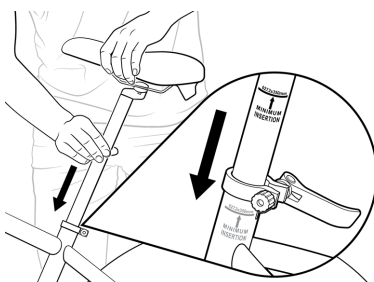
Seatpost out **TOO FAR**

The minimum insertion point on the seatpost must be inserted into the seat tube.

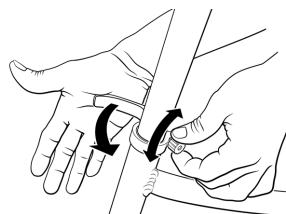
Depending on your preference, ability, and amount of experience with bike and ebike riding, you may find that lowering the seat so you can put one or both feet on the ground without dismounting may offer a safer and more comfortable experience.



Open the quick-release lever



Insert the seatpost, ensuring the minimum insertion point goes into the seat tube.



Close the quick-release lever using your palm.

1. **Open the seatpost quick-release lever.**
2. **Slide the seatpost in or out of the seat tube** to a height appropriate for your leg length and preference. *Do not extend the seatpost beyond the minimum insertion marking etched onto the seatpost* (see the [“Seatpost out TOO FAR”](#) illustration).
3. **Align the quick release clamp opening with the notch in the seat tube, and close the quick-release lever fully.** Closing the lever should require enough pressure that it leaves an imprint in your hand. When closed, the seat should not move up, down, left, or right. If needed, adjust the lever tension by turning the adjustment nut opposite the quick-release lever.



WARNING: A loose seatpost can cause your seat to drop suddenly, which can lead to loss of control, component damage, serious injury, or death. Regularly check to make sure that your seat’s quick-release lever is properly tightened.

4. **Try out your seat fit,** and repeat steps 1–3 if the seat position needs a bit more adjusting.

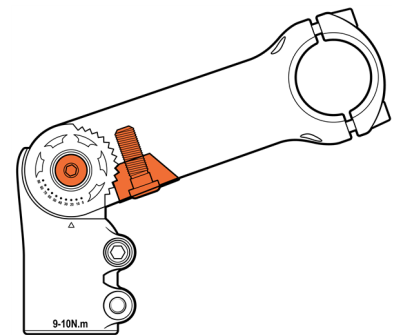


DANGER: Overextending the seatpost can cause it to break or fall off your ebike, which will put you at very high risk of serious injury or death. Avoid this danger by inserting your seatpost into the seat tube far enough that the minimum insertion point is no longer visible.

Fine-tune the handlebar stem angle

For maximum comfort, riders should not overextend their arms’ reach when riding. Ensure that the position and angle of the stem, handlebar, and brake levers allow for a comfortable arm position, with a relatively straight line along the forearms, wrists, and hands. The rider must also be able to turn the handlebar side to side without strain or getting hit by the handlebar.

1. **Loosen the stem angle adjustment bolt (bottom)** under the stem two full turns (Allen wrench). See “Stem angle adjustment bolts” illustration.
2. **Loosen the stem angle adjustment bolt (side) one-half turn** (Allen wrench). See “Stem angle adjustment bolts” illustration.
3. **Adjust the angle of the stem** according to rider proportions and preference.
4. **Tighten the stem angle adjustment bolts.** First tighten the side bolt, then the bottom. Both should be torqued to the values listed in [“Tools and torque specifications”](#) on page 11.



Stem angle adjustment bolts (side and bottom, in orange)



WARNING: Do not operate the bike without ensuring the stem is secured to the headset and handlebar and that all bolts are torqued to the values in [“Tools and torque specifications”](#) on page 11.



DANGER: Overextending components like the handlebar stem, seatpost, or seat can cause those components to break or fall off your bike, which will put you at very high risk of serious injury or death. Avoid this danger by never extending these components beyond any minimum insertion markings etched into the components.

Fine-tune the headset tightness

The headset is the portion of the bike inside the headtube that connects the front fork to the handlebar stem.

Check whether the headset is too loose. To test that the headset is tight enough, place one hand over the spot where the handlebar stem meets the bike's headtube. With the other hand squeezing the front brake lever (left side of handlebar), gently rock the bike front to back. If your headset is too loose, you'll feel a knocking sensation.

Check whether the headset is too tight. Hold onto your top tube and lift the front wheel off the ground slightly. Your front wheel should be able to flop if you tilt the bike to the side without your hands on the handlebar.

To add or reduce tension, follow these steps.

1. **If necessary, remove the stem bolt hole cover.** Set aside for reinstallation later.
2. **Access the top cap bolt.** If needed, loosen the angle adjustment bolts (see [“Stem angle adjustment bolts” on the previous page](#)) and angle the stem to allow top cap bolt access. Insert the extra-long 5 mm Allen wrench into the top cap bolt head. (See “B” in [“Fine-tune the headset tightness” below](#).)
3. **Evenly loosen the stem clamp bolts** (see “A” in [“Fine-tune the headset tightness” below](#)).
4. **Turn the top cap bolt 1/4 turn** using the extra-long 5 mm Allen wrench.
5. **Test whether the headset is too loose or too tight** as described above.
6. **If needed, repeat steps 4 and 5 until you have achieved ideal headset tightness.**
7. **Tighten the stem clamp bolts evenly.** Turn each bolt one quarter turn, alternating bolts, until both are secure. Torque to the value listed in [“Tools and torque specifications” on page 11](#)
8. **Fine-tune the handlebar stem angle if needed.** See [“Fine-tune the handlebar stem angle” on the previous page](#).
9. **Install the stem bolt hole cover.**
10. **Perform a handlebar twist test** to ensure the front wheel and handlebar stem are securely connected. See [“Handlebar twist and push tests” on page 39](#) for instructions.

If you're unsure whether you have tightened the headset correctly, consult a certified, reputable bike mechanic.

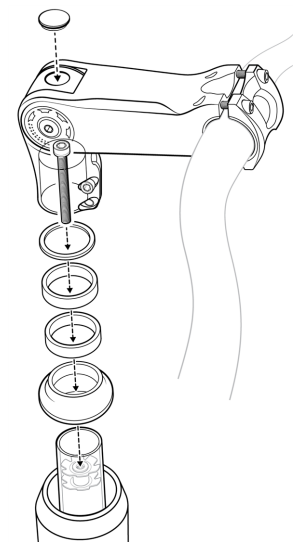
Over time, the headset can loosen. Periodically check the headset tightness and, if necessary, adjust the top cap bolt as explained above.

CAUTION: Riding a bike with a headset that is too loose or too tight can cause damage to the headset and other bike components. To prevent this damage, periodically check your headset for ideal tightness.

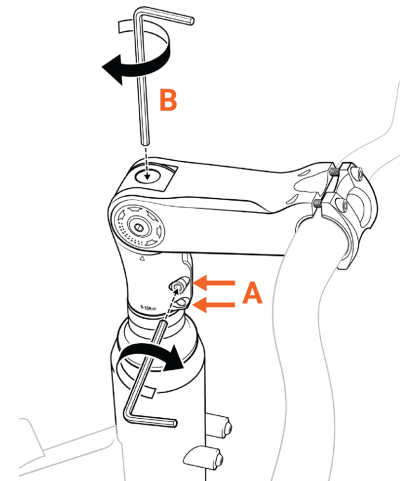
Rad UI Display and UI Remote angle

For best screen visibility and to prevent glare, angle the Rad UI Display and Rad UI Remote so that they don't face you directly, but are tilted slightly away from you, when you're seated and riding.

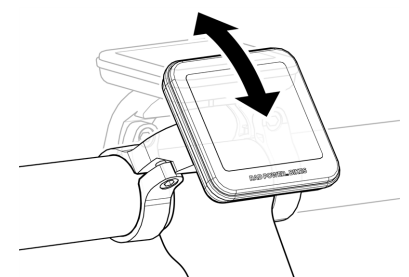
1. **Loosen the Rad UI Display clamp bolts.** Loosen just until the UI Display can rotate on the handlebar. Do not remove the bolts.
2. **Rotate the Rad UI Display and test the positioning.** The angle that will minimize glare and optimize visibility of the screen will depend on the rider's height and biking position. The screen should be tilted away from the rider but not tilted so far that it's horizontal. Test the position while seated on your bike



Stem and headset components



Fine-tune the headset tightness



Angle the Rad UI Display to minimize glare

outdoors, in sunlight. Adjust as desired.

3. **Tighten the Rad UI Display clamp bolts.** Tighten to the torque value listed in [“Tools and torque specifications” on page 11.](#)
4. **Adjust the position of your Rad UI Remote.** Follow steps 1-3 above, but apply them to the Rad UI Remote and its components.

Brake lever angle

The angle of the brake levers can be adjusted for the most comfortable hand position possible. For most riders, this will allow them to rest two or three fingers comfortably on the brake lever while keeping their wrists in a neutral position. To adjust the angle, follow these steps:

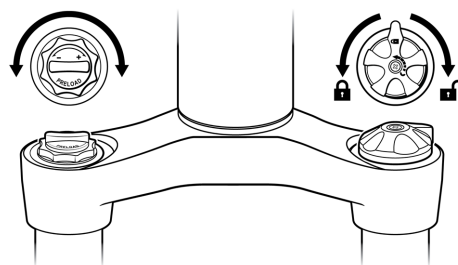
1. **Loosen the brake lever clamp bolt** using the appropriate Allen wrench.
2. **Adjust the angle of the brake lever** so it's comfortable for the rider.
3. **Retighten the brake lever clamp bolt** according to the value listed in [“Tools and torque specifications” on page 11.](#)

Suspension fork

The suspension fork can move up and down to cushion bumps in the riding surface, which can make riding on a rough road or trail smoother and more comfortable. Depending on your weight or preference, you can adjust the preload (suspension fork spring compression).



WARNING: A low preload setting (for a “softer” ride) can cause your fork to compress when you brake, and the effect will be more dramatic for heavier riders, bikes with a lot of cargo (especially in front), and at higher speeds. If the fork compresses suddenly, that could cause loss of balance or a fall, resulting in serious injury or death. We recommend you start riding with a higher preload setting. If you want to try a lower preload, practise riding at that setting in a safe location (flat and free of hazards that might require sudden braking) and begin at low to moderate speeds.



Suspension fork

The suspension fork can also be locked out as a rigid fork, which will typically yield higher pedalling efficiency.

To lock the suspension fork, turn the lockout lever, located on the suspension fork, anticlockwise. To unlock the suspension fork, turn the lever clockwise until it stops.

To adjust the preload of the suspension fork, follow these steps:

1. **Make sure the lockout lever is unlocked.**
2. **Turn the preload adjustment knob** (located on the suspension fork and labelled “preload”).
 - To *subtract* preload (to make the suspension *softer*), turn the preload adjustment knob in the direction of the small “-” on the knob. A softer ride can be best for lighter riders or those who prefer maximum cushioning from bumps in the riding surface.
 - To *add* preload (to make the suspension *stiffer*), turn the preload adjustment knob in the direction of the small “+” on the knob. A stiffer ride can be better for heavier riders or those who prefer a stiffer, more efficient ride.

For more information on adjusting suspension forks, please see our Help Centre at radpowerbikes.eu/help.

Ensure all hardware is tightened properly

Ensure all hardware is tightened properly according to the values in [“Tools and torque specifications” on page 11.](#)

This is a critical safety step that you must not skip. If you do not own a torque wrench or you do not have the skills to check the tightness of your hardware, consult a local, professional, reputable bike mechanic for help. You can find more information about bike fit and making adjustments to your ebike in our Help Centre at radpowerbikes.eu/help.

Battery information

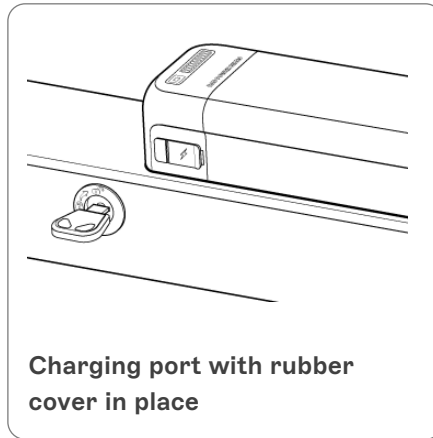
The battery that comes with your RadCity is a state-of-the-art, lithium-ion battery that's designed to give you years of power with proper care and use. Follow the recommendations here for the best possible performance.

Battery features

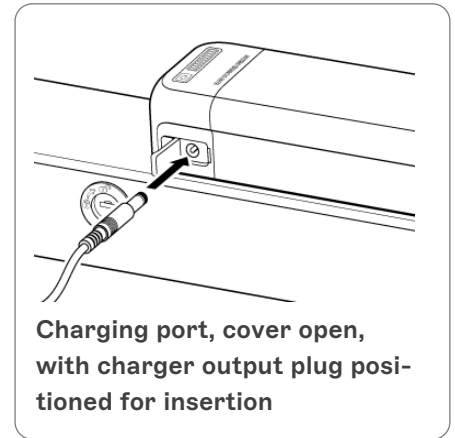
Please familiarize yourself with all of the components of your battery. When you are seated on your ebike, the charging port of your battery will be on the right side of the battery.



CAUTION: Do not put any object into your battery's charging port other than the Rad Power Bikes charging plug designed for this purpose (and pictured in the illustration). Inserting other objects into the charging port could damage your battery.



Charging port with rubber cover in place



Charging port, cover open, with charger output plug positioned for insertion

CHARGE LEVEL

On the top of your battery there is a button and 10 charge indicator LED lights. When you press the button, the LEDs will give you an approximation of your charge level: zero lights indicate zero or nearly zero charge, one light indicates about a 10% charge, two lights indicate about a 20% charge, and so on. When the battery is nearly empty, the first LED will blink.

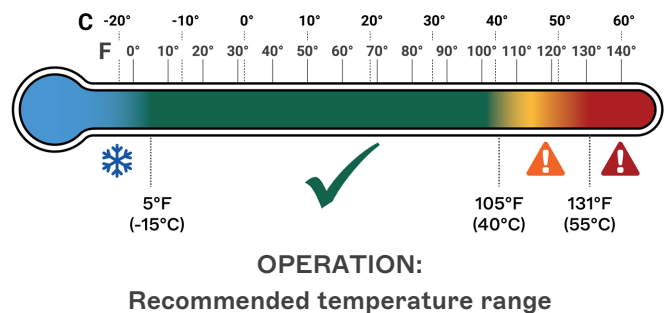
NOTICE: If you press your battery button and none of the LEDs light up, it's possible your battery is in ship mode. (If your battery is in ship mode, your bike will not power on when you press the power button on the Rad UI Remote.) To exit ship mode, press the battery button for at least three seconds.

You can also assess your battery's charge level via the Rad UI Remote on your handlebar (see ["Rad UI functions and electrical controls" on page 25](#) for more information). It's possible for your battery's indicator lights and your Rad UI Remote to report slightly different charge levels. That's okay. If you notice a significant difference, this may indicate a problem in the electrical system. Please see ["Troubleshooting" on page 41](#) for more information.

Safe operating temperatures

We recommend riding in temperatures between -15°C to 40°C (5°F to 105°F). Colder or hotter temperatures increase risks to your health and can also cause harmful internal battery temperatures.

Riding in very hot temperatures: Know and respect your physical limits around exercising in hot temperatures, and consult your doctor if you have any concerns. To prevent damage to your battery, do not ride in temperatures above 40°C (105°F). If you choose to ride in extremely hot temperatures, use low levels of power assistance (low pedal assist levels, low use of twist power assist) to keep the battery as cool as possible. This may lower the risk of the battery automatically turning off to prevent use-caused heat damage.





DANGER: Do not ride in extremely hot temperatures. The more the ambient temperature exceeds 40°C (105°F), the greater your risk of exceeding a maximum internal battery temperature of 55°C (131°F). This can cause the battery to turn off as a safety precaution. Extreme heat may also cause critical failure of the battery up to or including an electrical fire. Factors that increase your risk for battery overheating include, but are not limited to, ambient temperatures above 40°C (105°F), direct sunlight for extended periods, high twist power assist usage, high PAS level, high payload, steeper inclines, and other environmental factors.



WARNING: Extreme cold of -15°C (5°F) or below will reduce the range of your battery and can cause the battery to shut off automatically to prevent damage. Do not depend on battery power to return you back to safety if riding near those extreme temperatures. Riding in freezing temperatures can also expose your ebike to de-icing salt, which can harm your ebike and electrical components or cause an electrical fire. See [“Guard against rust, corrosion, and water damage” on page 40](#) for more information.

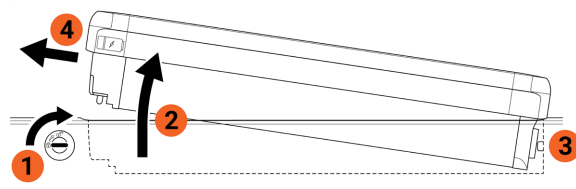
Removing and installing the battery

You can charge your battery either on or off your RadCity. If you remove it for charging, storage, transportation, security, or some other reason, keep these procedures to prevent battery damage.

BATTERY REMOVAL

To remove the battery, follow these steps.

1. **Place the key into the keyport and turn it to the unlocked position.**
2. **The battery lock will release the battery** from the frame and lift it out of the mount slightly.
3. **Carefully lift the battery up**, angling it away from and clearing the terminal contacts (“3” in the illustration).
4. **Pull the battery out of the mount.** Be careful not to drop or damage the battery when it’s loose from the bike. Do not touch or bend the terminal contacts.



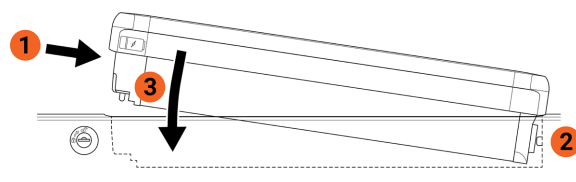
Removing the battery

NOTICE: When the battery is off its mount, protect the battery terminal contacts from damage or exposure to harmful substances including liquids and salt. Do not touch the terminal contacts. If the terminals become damaged, please discontinue use and contact Rad Power Bikes Product Support immediately.

BATTERY INSTALLATION/MOUNTING

To install the battery, you do not need the key. Check to ensure the battery mount is clean and dry, and then follow these steps.

1. **Gently insert the battery into the frame.**
2. **Align the battery with the terminal contacts.**
3. **Push down on the battery until you hear a click.** Do not force the battery into the battery mount. Ensure the battery is locked in place by gently pulling upwards on it.



Installing the battery



CAUTION: An unlocked or improperly attached battery can fall off a moving ebike, causing damage or injury. Always check that the battery is properly attached and locked to the frame before moving or riding your ebike.

Before you charge

NOTICE: Failure to follow the battery-charging best practices outlined in this manual could result in unnecessary wear to the battery and/or charger, and could lead to an underperforming or non-functional battery. Batteries damaged due to improper care will not be replaced under warranty.

Where to charge. Always charge in a safe, dry, indoor area that is away from children, direct sunlight, dirt, debris, tripping hazards (including electrical cords), or any materials that could ignite in the unlikely event of a charger or bat-

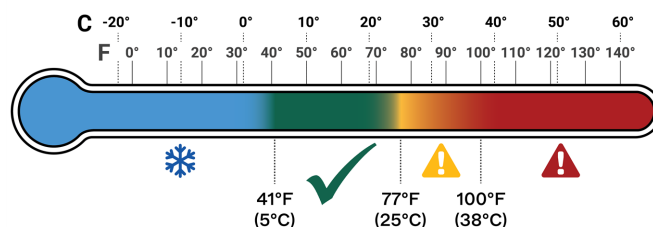
tery malfunction. Arrange the bike, battery, and charger to eliminate the potential for falls or other impacts. Make sure you stay close enough to it to check on it occasionally.

Check the condition of your battery and charger. Make sure the battery, charger, and electrical cables show no signs of damage. The terminals on the battery and its mount should be free of dirt, rust, corrosion, and leakage.

WARNING: When charging any powerful battery, locate it somewhere you can get to it easily (or maneuver past it to safety) should there be a fire. Do not place it in a hallway or near a door such that it could block your exit in an emergency.

WARNING: Letting a battery charge unattended increases the risk that a charging problem will go undetected and lead to component damage or a fire hazard. Always charge your battery where you can monitor it.

Ensure the ambient temperature is appropriate. For best charging performance and to minimize wear and tear on components, we recommend charging at ambient temperatures of 5°C to 25°C (41°F to 77°F). Your battery generates heat while charging, but it's designed to air-cool, so keep it uncovered with the light facing upwards on a flat, stable, hard, unheated surface. At relatively low temperatures, charging can take longer.



CHARGING:
Recommended temperature range

CAUTION: Do not charge your battery when it is warm from riding or in ambient temperatures above 38°C (100°F) to prevent unnecessary wear and tear on battery and charger. If the battery has turned off to prevent heat damage, wait until the battery cools down to turn the battery back on. Never charge your battery on or near heat-generating devices.

WARNING: Charging your battery with a charger other than one supplied by Rad Power Bikes and designed for your specific ebike model can cause damage to your ebike's electrical system or create a safety hazard. Only use a battery charger designed for your ebike and supplied by Rad Power Bikes.

WARNING: Using a damaged battery or charger can damage additional components or create a fire hazard. **Stop using your battery and charger and contact Rad Power Bikes immediately if any of the following occur:**

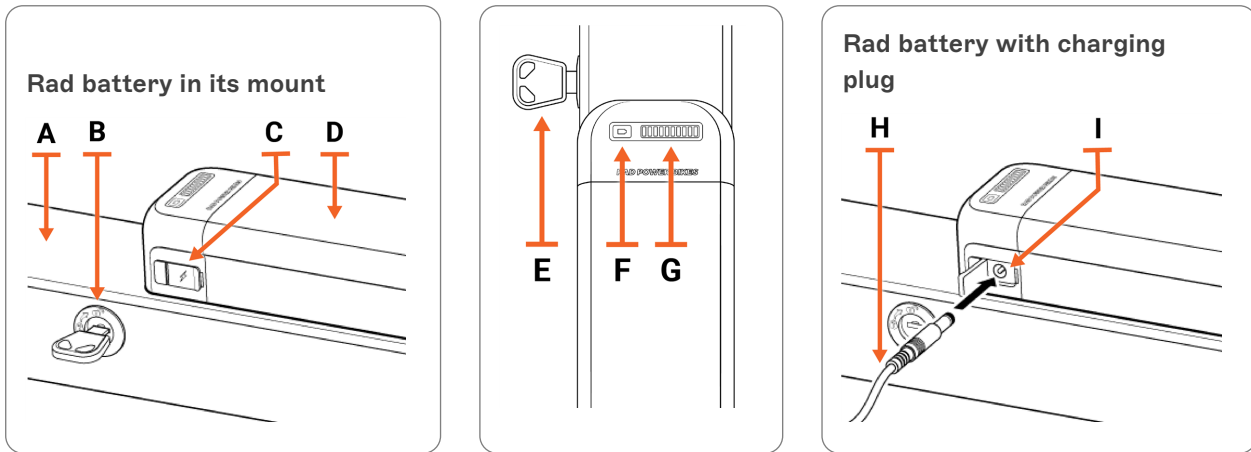
- Your charger's flexible power cord or output cable or any of the electrical cables on your ebike is frayed, has broken insulation, or any other signs of damage,
- Your battery or charger is physically damaged, non-functional, or performing abnormally,
- Your battery or charger experienced a significant impact from a fall, crash, or shipping damage, with or without obvious signs of damage,
- Your battery is leaking a clear, pungent, gel-like substance (which is potentially corrosive and flammable),
- Your battery will not fully charge (not all of the LEDs will light up) after the battery has been charging long enough so that it should be fully charged, i.e., it's been plugged in at least an hour longer than the time cited in ["Estimated charging times" on page 21](#) and/or the LED or LEDs on the charger indicate it has finished charging.
- Your battery was submerged in liquid or had extensive water exposure or damage, or
- Your charger becomes too hot to touch (it's designed to get warm with normal use), makes an unusual smell, makes a popping sound, or shows other signs of overheating.

Store any damaged or potentially damaged battery or charger in a safe, dry location away from the house and other flammable materials/structures and, as soon as possible, recycle or otherwise dispose of it according to local rules. Replacement batteries and chargers are available at radpowerbikes.eu.

Charging procedure

To charge your battery, mind the advice in ["Before you charge" on the previous page](#) and then follow these steps.

1. **Turn the power off.** Press and hold the power button on the UI Remote until the display turns off. If desired, use the key to unlock and remove the battery from the ebike frame. The battery can be charged either on or off the ebike.



A	Bike frame
B	Keyport for locking and unlocking battery to frame (with key inserted)
C	Battery charging port with rubber cover in place
D	Battery
E	Key
F	Battery button (activates charge-level lights)
G	Charge-level lights
H	Charging plug
I	Battery charging port

2. **Locate the charging port of the battery.** The charging port is on the same side of the battery as the keyport. Note that the charging port includes a cover; the keyport does not have a cover.
3. **Place the charger on a flat, secure surface if you have removed it from your ebike.** The charging indicator light should face up.
4. **Plug the charger into the battery charging port.** Open the flexible cover on the charging port. Connect the charger's round barrel connector to the charging port on the side of the battery.
5. **Plug the charger into a power (wall) outlet.** Charging should initiate and will be indicated by the LED on the charger turning green (to indicate power source connection) and then immediately turn red to indicate active charging. When charging is complete, the LED will turn green again.
6. **When charging is complete, unplug the charger from the power (wall) outlet, and then unplug it from the battery.** Be sure to pull gently on the plugs, not on the cables themselves.

NOTICE: The charger is designed to stop charging automatically when the battery is full. Store the charger carefully, making sure its plug does not come in contact with liquids, dirt, debris, or metal objects, which can damage the plug and interfere with future operation.

Estimated charging times

The time needed to fully charge your battery depends on its age, how far it was used to travel, the nature of that travel (terrain, payload, PAS and twist power assist use, etc.), and other factors. The table here provides a rough estimate of charge time based on distance travelled with moderate use of motor assistance. Charging at low temperatures can increase recharge time.

NOTICE: The battery may take longer to charge when fully depleted, when very new, and after 3–5 years of regular use. If your battery doesn't seem to be charging normally, is taking longer to charge than expected, or you're experiencing substantial reduction in range, discontinue use and contact Rad Power Bikes Product Support.

Distance	Recharge time
8 km (5 mi)	.75 hour
16 km (10 mi)	1.5 hours
24 km (15 mi)	2.25 hours
32 km (20 mi)	3 hours
40 km (25 mi)	3.75 hours
48 km (30 mi)	4.5 hours
56 km (35 mi)	5.25 hours
64 km (40 mi)	6 hours
72 km (45 mi)	7 hours

Estimated range per full charge

We suggest that you select a lower PAS level when you're getting to know your RadCity and travel routes. Once you become familiar with your range requirements and the capabilities of your ebike, you can adjust your riding characteristics.

The table in this section provides range estimates to help you understand the factors that can increase or decrease range. Rad Power Bikes makes no claims about the range that individual users might experience in a particular situation.

40 km (25 mi):	<ul style="list-style-type: none"> Hilly terrain Windy 	<ul style="list-style-type: none"> Light pedalling Heavy payload 	<ul style="list-style-type: none"> High pedal assist level, high twist power assist use
52 km (32 mi):	<ul style="list-style-type: none"> Flat terrain Not windy 	<ul style="list-style-type: none"> Light pedalling Normal payload 	<ul style="list-style-type: none"> Low pedal assist level, minimal twist power assist use
88 km (55 mi):	<ul style="list-style-type: none"> Flat terrain Not windy 	<ul style="list-style-type: none"> Moderate to heavy pedalling Normal payload 	<ul style="list-style-type: none"> Low pedal assist level, minimal twist power assist use

Best practices for extending range and battery life

Follow the best practices listed below to help extend your range and battery life.


- Whenever possible, avoid applying full twist power assist when the RadCity has slowed to very low speeds, has stalled, or stopped.
- 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.
- Avoid riding in extremely cold or hot temperatures.

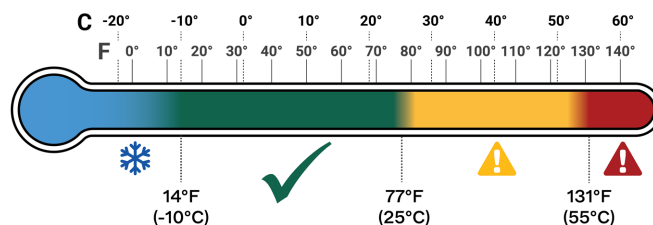
Battery storage

When storing your ebike from Rad Power between rides, follow the recommendations below to maintain the health and longevity of your battery.

SHORT-TERM STORAGE TEMPERATURES

Store the battery in a dry, indoor location between -10°C to 25°C (14°F to 77°F).

 **DANGER:** Storing your battery above 55°C (131°F), such as in a hot car in direct sunlight, can cause permanent range decline or critical failure, and could lead to electrical fire, serious injury, or death.




SHORT-TERM STORAGE:
Recommended temperature range


LONG-TERM STORAGE TEMPERATURES

For long-term storage (more than two weeks), choose a dry, indoor location. The ideal minimum temperature for long-term storage is a bit warmer than what's allowable for short-term storage. Make sure your battery stays between 5°C to 25°C (40°F to 77°F).

LONG-TERM STORAGE TIPS

- We recommend putting your battery in “ship” mode by pressing and holding the battery button for 3 seconds. This mode prevents the battery from releasing power to the electrical system, including any attached accessories. This can help extend its charge. To take your battery out of ship mode, press and hold the button again for 3 seconds.
- For long-term storage, we recommend that you keep your battery at approximately 40-70% charged. Check the battery's charge level monthly. If necessary, use the charger from Rad Power Bikes to charge the battery to about 40-70% charged.

 **CAUTION:** Long-term storage of your battery at temperatures above 35°C (95°F) or below 5°C (40°F) can reduce battery performance and lifespan.

 **CAUTION:** Don't store your battery long-term at full charge, zero charge, or very little charge. Storing your battery for long periods at *full charge* can cause range decline over time. Storing your battery for long periods at *very little or no charge* can cause permanent range decline or a non-functional battery.

Summary: Battery recommended temperatures

The temperatures listed below represent *ambient* temperatures. Internal battery temperatures are likely to be higher than ambient temperature during charging and use. The battery will automatically turn off to prevent damage when its internal temperature reaches below -15°C (5°F) or above 55°C (131°F). Please see the preceding sections for more information.

Recommended operation (riding) range: -15°C to 40°C (5°F to 105°F)

Recommended charging range: 5°C to 25°C (41°F to 77°F)

Recommended short-term storage range: -10°C to 25°C (14°F to 77°F)

Recommended long-term storage range: 5°C to 25°C (40°F to 77°F)

Additional critical battery safety information

You must read and understand all safety-related messages in this section before handling, using, charging, or storing the battery that came with your RadCity.

- Always remove the key from the keyport of the battery before riding. Do NOT operate the ebike with the key in the keyport, or injury to your leg or damage to the electrical system can occur.
- Avoid salt water and de-icing compounds, which are very corrosive and can lead to damage, especially if they come in contact with the battery and its mount. Never ride through standing salt water, e.g., through waves at a beach.



DANGER: Never open the battery housing, which can expose you to caustic substances and electrical shock. It can also create a fire hazard, which can lead to serious injury or death. Opening the battery housing may void the warranty.



WARNING: Never immerse or submerge the battery in water or liquid, including water in the battery mount, which can cause damage, serious injury, or death. If the battery was immersed or submerged in water or another liquid, do not use the battery.






CAUTION: Using aftermarket battery accessories or products that have not been tested by Rad Power Bikes for safety and compatibility may void your warranty, result in ebike or property damage, create a safety hazard, or cause injury. If you use products not tested and recommended by Rad Power Bikes, you do so at your own risk.





NOTICE: When the battery is off its mount, protect the battery terminal contacts from damage or exposure to harmful substances including liquids and salt. Do not touch the terminal contacts. If the terminals become damaged, please discontinue use and contact Rad Power Bikes Product Support immediately.

NOTICE: Always follow any safety information attached to the battery or charger. A sample label for the battery that shipped with your ebike is shown at right, manufacturing location and other details may differ. Do not remove this label from the battery.

Model: RAD-WS-S1304R 13INR19/66-4
 RATING: 48V == 672WH
 Manufacturer: PYTES, MADE IN CHINA
 Patent Pending, Designed in Seattle
 by RAD POWER BIKES™



ATTENTION ⚠️

The battery pack **MUST** be locked into the frame battery mount before use. Ensure the battery and charger are not damaged before charging. Don't connect the positive and negative terminals of the battery pack. Don't expose the battery to high temperatures. Ensure the battery charger is unplugged from the battery pack and put away before you ride.

Always charge your battery in temperatures between 10 and 25 degrees Celsius (50 and 77 degrees Fahrenheit). Do not subject the battery to salt water or leave the bike for extended periods in the rain. Only use original equipment for charging.

Operation

WARNING: Incorrect assembly, maintenance, or use of your ebike can cause component or performance failure, loss of control, serious injury, or death. Even if you're an experienced bike rider, **you must read and understand the entire manual and any documentation provided for subcomponents or accessories before riding.** If you are not sure you have the experience, skills, and/or tools to correctly perform all assembly steps in the manual and the assembly video at radpowerbikes.eu/manual, have a local, professional, reputable bike mechanic assemble your ebike.

How the electrical system works

Your RadCity is equipped with two ways for a rider to use power assistance from the motor forwards: a pedal assist system (PAS) and a twist power assist.

WARNING: Practise using the pedal assist (PAS) and twist power assist in a flat, clear, open area until you understand how these power sources work together. Failure to understand how to safely operate the PAS and twist power assist together can result in loss of control, crash, injury, and/or death.

HOW PEDAL ASSIST WORKS

You can use the pedal assist system (PAS) to call up assistance from the motor *while you are pedalling*.

Pedal assist uses a torque sensor built into the drivetrain of the ebike. The torque sensor detects how hard the rider pedals and signals the electric motor to provide a corresponding level of pedal assist (so the harder you pedal, the more pedal assistance you get).

HOW THE TWIST POWER ASSIST WORKS

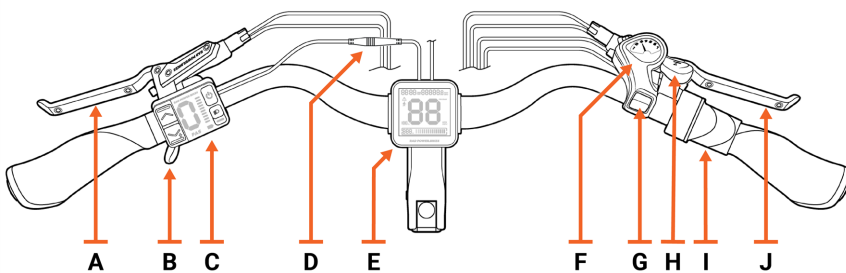
To engage the twist power assist while pedalling, slowly and carefully rotate the twist power assist grip backwards towards yourself. When the bike is on and you are pedalling at an adequate cadence, the twist power assist function acts as an adjustable, on-demand pedal-assistance boost. It is not designed to be used when the rider is not pedalling.

NOTICE: Twist power assist and motor use may not be allowed in all areas. It is your responsibility to know and follow ebike regulations, rules, and traffic laws where you ride.

MOTOR SOUND LEVELS

The motor on your new ebike is designed to meet EU noise requirements. The A-weighted emission sound pressure level at the driver ears is less than 70 dB(A).

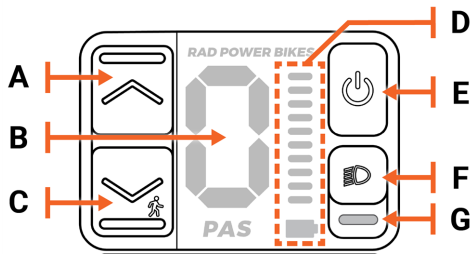
Handlebar features



A	Left brake lever (for front brake)
B	Lever for bell
C	Rad UI Remote
D	Display Connector
E	Rad UI Display
F	Shifter
G	Up-shift button
H	Down-shift lever
I	Twist power assist
J	Right brake lever (for rear brake)

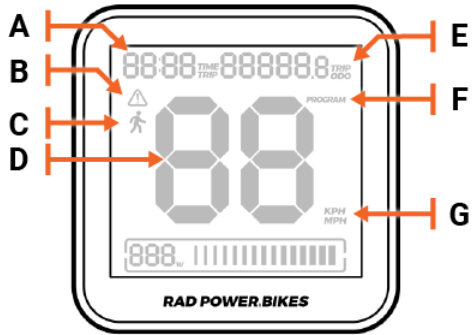
Rad UI functions and electrical controls

RAD UI REMOTE



A	Up Arrow
B	PAS (pedal assist system) Level
C	Down Arrow (and Walk Mode)
D	Battery Level (can also display error codes)
E	Power Button
F	Headlight button
G	Headlight-on indicator



Using the Rad UI Remote (above), the Rad UI Display ([page 25](#)) and other ebike features, you can power your ebike on or off, view certain information, and control other electrical functions.




RAD UI DISPLAY

A	Clock or trip timer
B	Error icon
C	Walk-mode icon
D	Speedometer
E	Odometer or trip odometer
F	Program-mode indicator
G	Speedometer units (KPH or MPH)

Power	Power on/power off	Press and release the power button.
	Skip “rAd” sequence at startup	Press and release the Up Arrow or Down Arrow.
	Power save timer	When powered on, the UI will power off automatically after 5 minutes of inactivity.
Lights	Lights at startup	Headlight, taillight, and display backlight will turn on automatically when the ebike is powered on.
	Turn on headlight/taillight	When the ebike is powered on and the headlight is off, press and release the headlight button.
	Turn off headlight/taillight	While powered on, to turn off the headlight for daytime riding (which is optional), press and release the headlight button.
	Headlight indicator light	This light is located below the headlight button on the Rad UI Remote and will be illuminated when the headlight is on.
	Turn on taillight flash mode	When the ebike is powered on, press and release rubber button on bottom of taillight housing. See “Brake light” on page 27 for more information.
	Adjust UI Display brightness	See “UI Display program settings” on page 27 .
Pedal assist system (PAS)	Brake light	See “Brake light” on page 27
	Increase pedal assist one level	Press and release the Up Arrow on the Rad UI Remote.
	Decrease pedal assist one level	Press and release the Down Arrow on the Rad UI Remote.

Walk mode	Walk mode definition	Walk mode is an option that allows a user to get a small amount of motor assistance to propel the ebike forwards at 3 mph (6 km/h), while walking beside the ebike with both hands on the handlebar. This is helpful for walking up a hill with heavy cargo, for example.
	Turn on walk mode	Press and hold the Down Arrow. After approximately three seconds walk mode will power on and propel the ebike forwards at 3 mph (6 km/h); walk mode will stay on while the Down Arrow is being held.
	Turn off walk mode	Release the Down Arrow to exit walk mode and end motor assistance, or, as always, squeeze a brake lever to cut off motor assistance.
	How walk mode is displayed on the UI Display	The walk icon () will flash on the left side of the UI Display.
	How walk mode is displayed on the UI Remote	Where the PAS level is normally displayed, two segments will alternate, simulating the motion of foot steps.
		

 **CAUTION:** Using walk mode inappropriately can cause you to lose control of the ebike, causing ebike damage or injury. Use walk mode only while dismounted from the ebike, with both hands on the handlebar, and with at least one hand on a brake lever so that you can quickly cut off power to the motor if necessary.

Battery charge level	Battery level indicators on the UI Remote	On the UI Remote, 10 light bars.
	Battery level indicators on the battery	On the battery, 10 light bars (see page “Battery information” on page 17).
Clock, odometer settings	Odometer/trip odometer definition	The odometer is the total distance the bike has travelled. The trip odometer is the total distance travelled during a ride or rides.
	Clock/trip time definition	The clock shows what time it is. The trip time is the total time elapsed over a ride or rides.
	Toggle between odometer/clock time or trip odometer/trip time	Press and hold the Up Arrow and the Down Arrow at the same time for approximately three seconds to toggle from odometer/clock to trip odometer/trip time. At first power on, the clock and odometer are the default display settings. The last-selected display setting (either clock/odometer or trip time/trip odometer) will display at power on.
	Reset the trip timer/odometer	When in trip odometer/trip time mode, press and hold the headlight button for approximately five seconds. The trip timer will reset back to 00:00 and the trip odometer will reset to 00000.0. The trip timer will immediately begin counting once reset and continue counting until the bike is powered off. When the bike is powered on the trip timer will resume counting from the same time when it was powered off.
Other UI Display settings	Speedometer	Current bike speed displayed in either miles per hour (MPH) or kilometres per hour (KPH).

UI DISPLAY PROGRAMMING

You can use the buttons on the UI Remote to change system settings. Here’s how:

1. **Enter programming settings.** Press and hold the Down Arrow and headlight button on the UI Remote at the same time for approximately five seconds, until “P” appears on the UI Remote and “PROGRAM” appears on the UI Display. This will allow you to step through program settings.

2. **Advance through the settings.** Press and release the headlight button to advance through four settings:

- Select 12 or 24 hour clock,
- Set clock time,
- Set units of measurement, and
- Set screen brightness.

Advancing to the next setting saves the previous program setting.

3. **Exit programming mode.** When you're done changing settings, exit the programming mode by simultaneously pressing and holding the Down Arrow and the headlight button on the UI Remote for approximately three seconds.

See the chart below for more information on each setting.

UI Display program settings	Select 12 or 24 hour clock	Use Up Arrow or Down Arrow to toggle between 12 hour (12 hr) or 24 hour (24 hr) clock modes.
	Set clock time	Press and release the Up Arrow or Down Arrow to adjust by one minute up or down. Press and hold the Up Arrow or Down Arrow for approximately 2 seconds to adjust by 10 minutes up or down.
	Set units: (miles and mph) or (kilometres and km/h)	Press and release the Up Arrow or Down Arrow to toggle between imperial units (miles & mph) or metric units (kilometres & km/h).
	Set screen brightness	Press and release the Up Arrow or Down Arrow to select a display backlight brightness level between 1 (dim) and 5 (bright).

Brake light

The RadCity is equipped with a taillight/brake light that is integrated into the electrical system. When you turn on your ebike, both the headlight and taillight will illuminate to make you more visible to other vehicles. Any time the ebike is powered on, squeezing one or both brake levers on the handlebar will activate the brake light, causing the taillight to illuminate additional areas.

The taillight also has a “flash mode” you can activate. To do so, power on the ebike, and then, while dismounted from the ebike, press the rubber flash-mode button on the bottom left side of the taillight housing. When in flash mode, the taillight will flash continuously, and squeezing the brake lever(s) will illuminate a brighter, solid brake light. Flash mode will continue if the headlight is turned off. But if you turn the ebike off and back on, you'll need to re-activate flash mode.

NOTICE: Flashing lights may not be legal in some areas. It is your responsibility to know and obey all applicable laws where you ride your ebike.

Start-up procedure

Before you can take your first ride you need to have properly assembled your ebike, tightened all components correctly, read this entire manual, and had a professional, reputable bike mechanic check the assembly. You also need to be at least 16 years old, and don't forget to put on a helmet.

Follow these steps to ride Rad!

1. **Check that the battery is locked securely.** Try tugging on the battery with the key removed; it should not move at all. If it does, push it down gently but firmly and try again until it latches.



CAUTION: Getting onto the ebike or riding it with the key in the battery can cause injury to your leg and damage to the key or lock mechanism. Always remove the key before riding the ebike.

2. **Turn on the ebike.** Locate the Rad UI Remote (near the left handlebar grip). Press the power button for about two seconds until the Rad UI Display and the Rad UI Remote turns on (the UI Remote will spell out “rAd”).





CAUTION: Do not confuse your keyport and the charging port. Do not insert your key into the charging port. Inserting anything into the charging port other than the charging plug can damage the battery.

3. **Try out your bell** if you haven't already! It's an important safety tool for alerting others to your presence, especially when passing. The bell is integrated into the left brake lever on your handlebar. To ring it, flick the bell lever; see the illustration "[Handlebar features](#)" on page 24.
4. **Begin riding carefully.** With the proper safety gear and rider knowledge, you may now operate your ebike. Start pedalling on flat ground, clear of obstacles and people, with the ebike in an easy (low) gear and at pedal assist level 0 or 1. You may also use the twist power assist to accelerate and maintain your desired speed.

NOTICE: While you're getting to know your ebike, don't ride with passengers or cargo (see "[Carrying cargo or a child](#)" on page 30 for more information). Review, understand, and follow the safety information in "[Ride as safely as possible](#)" on page 44.

5. **Use the twist power assist** (next to the right handlebar grip) by slowly and carefully rotating it towards the rider. Do not use the twist power assist unless you're on the bike, and note that the twist power assist can be activated with a twist any time the bike is powered on.



WARNING: Be careful not to accidentally twist the twist power assist, which can cause sudden acceleration. If you're not prepared for this acceleration, you can lose control of the ebike, which can lead to serious injury or death. To minimize this risk, always keep at least one hand ready to squeeze the brake lever to cut off power to the motor. When you dismount, power off the bike before moving it.



WARNING: Engaging the pedal assist feature, especially at a high setting, will cause acceleration that may be greater than expected, especially for relatively new riders, and that can cause loss of control, serious injury, or death. To minimize risk, start at PAS level 0 or 1.

Parking, storage, and transport

Please follow these tips to ensure your ebike is well cared for when you're not using it.

PARKING AND STORAGE

- Park in accordance with local rules and regulations, especially if you're in a public place.
- Park indoors whenever possible. If you must park outdoors in rain or wet conditions, do not do so for an extended period of time, and afterwards park in a dry location to allow the ebike systems to dry out. When any bike or ebike is exposed to wet conditions, it will need more frequent maintenance to prevent rust and corrosion and to ensure all systems work safely. See "[Guard against rust, corrosion, and water damage](#)" on page 40 .
- Avoid parking or storing your ebike in direct sunlight, which can cause damage to electrical components.
- Do not park or store your ebike in excessive heat, such as inside of a parked car on a hot day. Always store your ebike within this temperature range: -10°C to 25°C (14°F to 77°F).



DANGER: Storing your battery above 55°C (131°F), such as in a hot car in direct sunlight, can cause permanent range decline or critical failure, and could lead to electrical fire, serious injury, or death.

- Switch the power and any lights off to conserve battery power. Remove the key from the ebike and ensure the battery is locked to the frame or use the key to remove the battery and bring it with you for security.
- Register your ebike with a regional bike registry (ask your local bike shop for recommendations) to increase the chance you'll get your ebike back in the unfortunate event it's stolen.
- Lock up your ebike to reduce risk of theft. You can purchase a lock from our website at radpowerbikes.eu or consult a local bike shop.

TRANSPORTING

- When pushing or carrying the ebike, turn off the power to avoid accidental acceleration from the motor, e.g. by mistakenly twisting the twist power assist. Another option is to keep the ebike powered on and use "walk mode"—see "[Rad UI functions and electrical controls](#)" on page 25 for more information.
- Only use racks (i.e., a bike rack for your car or other vehicle) designed for the size and weight of your ebike. Pay particular attention to whether the rack can accommodate the width of your ebike tyres.

- When carrying your ebike on a rack for transport, remove the battery, and place/wrap it securely inside your vehicle, making sure it can't roll around and that its plugs and contacts are protected. This will reduce the weight of the bike, make lifting and loading it easier, and keeps your battery safer.
- Do not leave a battery in direct sunlight or any location that is or may become excessively hot or cold, like a parked car, for extended periods.
- Before using public transportation (buses, trains, etc.) to transport your ebike, check with the relevant transportation authority for rules that might apply to ebikes, including weight and size limits, tyre widths, lithium-ion batteries, etc.
- Avoid transporting any electrical bike on a vehicle rack or truck bed during rain, which may cause water damage to the electrical components. See [“Guard against rust, corrosion, and water damage” on page 40](#) for more information. In any weather, it's safest to remove your battery before transporting your ebike. Carry the battery inside the vehicle, carefully placed to protect it from impacts, dirt, liquids, or other hazards.

Carrying cargo or a child

Carrying cargo or a child can help you have more fun on your ebike and replace trips you'd otherwise make with a car, which we think is rad. It also involves additional risks. You must read and understand this entire chapter and the rest of the manual plus any documentation that comes with any accessories you purchase before you ride your ebike with cargo or a child.

Your RadCity is designed to carry a single small child in the optional Thule Yepp Maxi child seat attached to the rear rack (the rear rack is optional on some ebikes). See [“Carrying passengers” on the next page](#) for more information.

For more information on optional accessories for your ebike, please go to radpowerbikes.eu.

NOTICE: Carrying a passenger, child, or cargo may not be allowed in all areas. It is your responsibility to know and follow all applicable laws where you ride your ebike.

Weight limits

The total maximum weight limit (payload capacity) of your RadCity, listed below, includes the weight of the operator as well as clothing, riding gear, cargo, accessories, etc. See [“Carrying passengers” on the next page](#) for more safety information about passengers.

Total maximum payload of the RadCity: 125 kg (275 lb)

Rear rack maximum payload: 27 kg (60 lb)

The maximum payload capacity and other important safety information for specific Rad Power Bikes accessories will come with those products and/or be available online at radpowerbikes.eu/help.



WARNING: Never exceed the payload limit of any accessory or component of your ebike even if you attach to it an accessory that carries a higher weight limit. Overloading any component can cause component failure, loss of control, serious injury, or death.



WARNING: Failure to ensure that cargo can't interfere with the operator's control of the ebike can lead to serious injury or death. The operator is always responsible for securing loads, loose straps, and gear.

Carrying loads (cargo or passengers) safely

Follow these instructions to maximize safety when using your RadCity to carry cargo or a passenger.

LOAD AND SECURE CARGO CAREFULLY

- Hold onto the ebike when loading and carrying cargo and/or passengers. The kickstand is not designed to be used for loading cargo or passengers. Do not assume the bike is stable and balanced when using the kickstand.
- Load cargo as low as possible to keep the ebike's centre of gravity low and improve stability.
- Ensure cargo loads are properly secured and periodically check that nothing loosens, risks interfering with any moving parts, or risks touching or dragging on the ground.



WARNING: Failure to ensure that cargo or a passenger can't interfere with the rider's control of the ebike can lead to serious injury or death. The rider is always responsible for securing loads, loose straps, and assessing a passenger's ability to ride safely. Please see [“Carrying passengers” on the next page](#) for more information.



WARNING: Loading cargo or a passenger without holding onto the RadCity can cause it to tip, leading to damage or serious injury. The kickstand is designed to hold up an unoccupied, unloaded ebike on a hard, flat, level surface, not to support the weight of the rider, passengers, or cargo. Always hold onto your RadCity when loading or unloading cargo or passengers.

PRACTISE WITH LIGHT LOADS IN A SAFE AREA

Carrying extra weight significantly affects braking, acceleration, turning, balancing, etc. These effects can be increased by challenging riding conditions, such as when roads are wet or slick. Hills that are normally easy to climb or descend without cargo can become challenging or even dangerous once extra weight is loaded onto the ebike.

Extra weight will also increase the time it takes to slow the ebike when braking.



WARNING: Carrying cargo or passengers significantly affects braking, acceleration, turning, and balancing, which can increase the risk of falls and other accidents, potentially leading to property damage, serious injury, or death. To minimize such risk, practise riding with light cargo in a flat, open area before attempting to carry heavier cargo or passengers, especially on roads or hills and in wet conditions.

USE BOTH BRAKES

With extra weight on your ebike, it's more important than ever to use both front and rear brakes, and always engage the rear brake first to prevent excessive strain on the front wheel and fork and to prevent loss of control. Ensure both front and rear brakes are properly adjusted, maintained, and applied.



WARNING: Using the front brake by itself can cause excessive stress on components, damage to the ebike and parts, loss of control, injury, or death. Always apply the rear brake before applying the front brake, using both brakes for all operations.

ADJUST YOUR ROUTES AND SPEED

When carrying heavy loads or passengers, plan your routes to avoid challenging hills and other hazards. Ride more slowly, and leave more time and distance for braking.

Carrying passengers

Your RadCity is designed to carry one small child in a Thule Yepp Maxi child seat. The Thule Yepp seat must be attached to the built-in rear rack.



DANGER: Using your RadCity to transport a passenger who is not the appropriate size or age for your child seat, or who does not have the health, motor control, or impulse control to ride safely as a passenger, can lead to serious injury or death of the operator and/or passenger. Read and understand the specifications of any child seat you purchase and all safety-, cargo-, and passenger-related information in this manual. It is your responsibility to assess the ability of a potential passenger to ride safely. If you're not certain, consult a physician.



DANGER: Leaving a child unattended on a bicycle creates a VERY HIGH RISK of the bike tipping over, causing serious injury or death. Always remove your child from the bike before you look away or walk away from the bike.



WARNING: To reduce the risk of injury, always closely supervise children if and when you use your RadCity near them.



WARNING: Serious injury or death can occur if clothing or body parts contact either wheel or other moving parts while the bike is in motion.

USING A CHILD SEAT FOR SMALL CHILDREN

Your RadCity is designed to work with the Thule Yepp Maxi child seat, which can attach to the "Yepp window" on your RadCity's built-in rear rack.

For installation instructions, safety notices, age/weight requirements, general information, and tips on safe operation of the Thule Yepp Maxi child seat accessory, visit the manufacturer's website online at www.thule.com or visit the Rad Power Bikes Help Centre at radpowerbikes.eu/help.

Carrying pets

Rad Power Bikes understands that you may want to bring your pet along on your ebike adventures, and we think that's rad. We cannot recommend any pet carrier or restraint system that we have not tested for compatibility and safety with your ebike from Rad Power Bikes.



WARNING: Transporting a pet using any bike or ebike puts you and your pet at risk of injury or death, especially if the pet distracts you, affects your balance, interferes with moving ebike parts, or causes you to exceed your ebike's or a component's maximum weight capacity, etc. It's impossible to anticipate every situation that can occur while riding with a pet. If you carry a pet on any bike, ebike, or similar vehicle, you assume any and all inherent risks.



WARNING: The ebike operator is always responsible for assessing a pet's ability to ride safely. Using this product to transport a pet that does not have the health and temperament to ride safely can lead to serious injury or death of the operator and/or pet(s). Consult a veterinarian or pet behavior specialist if you have any questions or concerns.



WARNING: Never leave a pet unattended in a pet basket carrier or other appropriate pet accessory on the ebike. Leaving pets unattended on the ebike creates a VERY HIGH RISK of the pet trying to escape or the ebike tipping over, leading to damage, serious injury, or death.

Safety checklists



WARNING: Any bike, ebike, or similar vehicle is subject to wear and tear, and certain components and fasteners can stretch or loosen with the vibrations and stress of normal operation. **You must check your ebike before each ride** and according to the other checklists in this manual. Failure to do so could result in property damage, serious injury, or death.



PRE-RIDE CHECK
rad-go.com/safety

BEFORE YOUR FIRST RIDE

- Make sure handlebar cables were routed correctly when the handlebar was installed. Turn the handlebar fully to the left and right and make sure this doesn't pull any of the cables or wires taut.
- Make sure your pedals are secure using a pedal wrench or a torque wrench fitted with a crowfoot bit. Torque according to the values listed in [“Tools and torque specifications” on page 11](#).
- Check that the cable connectors on the ebike are all plugged in securely and that nothing loosened in shipping.
- Check the brake functions per [“Checking brakes & motor cutoff switches” on page 37](#), but note that brakes can rub a little the first few times you ride. This is okay and normal; any squeak or noise should go away with use.
- Check everything on the “Before every ride” list below.

BEFORE EVERY RIDE

Before every, follow the safety checklist in the table below. On very long rides, check every ride or every 40–72 km (25–45 miles). If you find anything amiss with your ebike, don't ride it until you're sure it's fixed. Consult a local, professional, reputable bike mechanic or explore our Help Centre at radpowerbikes.eu/help if you have any questions.

Fasteners

- Ensure all fasteners are correctly tightened according to [“Tools and torque specifications” on page 11](#).
- Check that all quick-release levers, including the quick release on the front wheel and the seatpost, are tight and properly secured. Ensure the front wheel quick-release lever is positioned so that the front fork lower doesn't prevent it from closing fully.
- Check that the fasteners on any accessories you've added are properly tightened according to the manufacturer's instructions.

Brake system

- Check brake pads and ensure the brake pad material isn't thinner than the backing plate it attaches to.
- Ensure brake pads are correctly positioned in relation to the brake rotors.
- Ensure brake housing shows no obvious wear.
- Ensure brake levers are properly positioned and tightly secured to the handlebar.
- Ensure the brake lever tension is appropriate.
- Check that the taillight brightens when you squeeze each brake lever.
- Use the techniques in [“Checking brakes & motor cutoff switches” on page 37](#) to test the brake levers, brakes, and motor cutoff switches.

Drivetrain: cranks, pedals, chain, derailleur, shifter

- Ensure pedals are securely tightened to the cranks, that cranks are not bent, and that cranks are securely tightened to the bottom bracket. See [“Tools and torque specifications” on page 11](#).
- Ensure the chain is clean, lubricated, and runs smoothly. Take extra care with chain maintenance if the ebike is used in wet, salty, dusty, or otherwise damaging conditions.
- Check that the derailleur is adjusted and functioning properly.
- Ensure the shifter is attached to the handlebar securely and is shifting properly.

Motor drive assembly & twist power assist

- Ensure the hub motor is spinning smoothly and is in good working order.
- Ensure the power cable running to the hub motor is secured and undamaged.
- Check the axle nuts to ensure they are correctly tightened (see [“Tools and torque specifications” on page 11](#)).

- Ensure the torque washers, torque arm, and torque arm bolt are in place and secured.
- Ensure the twist power assist and pedal assistance are operating normally.

Steering

- Ensure the handlebar and stem are correctly aligned, adjusted, and tightened for proper steering.
- Perform the tests in [“Handlebar twist and push tests” on page 39](#).
- Ensure the handlebar grips are secure and undamaged.

Bearings

- Check that headset, wheel, pedal, and bottom-bracket bearings are lubricated, run freely, and display no excess movement, grinding, or rattling.

Wheels and tyres

- Ensure tyres are holding air and inflated to within the PSI limits displayed on the tyre sidewalls.
- Ensure tyres have good tread, have no bulges or excessive wear, no cracks, and are free from any other damage or foreign objects.
- Ensure rims run true and have no obvious wobbles, dents, or kinks. See [“Tyre and wheel care” on page 38](#).
- Check each wheel spoke. If any are loose or broken, seek help from a professional, reputable mechanic.
- Check the security of all wheel mounting hardware (wheel axle nuts, quick-release levers). Check wheel security and hardware torque on a regular basis (see [“Tools and torque specifications” on page 11](#)). Wheels can become loose or unsecured with normal use.



WARNING: An improperly secured front or rear wheel can cause loss of control, accidents, serious injury, or death. Check that the wheels are properly secured during assembly and before each ride.

Frame, fork, and seat

- Check that the frame and fork are not bent or broken.
- Check that the seat is adjusted properly, that the seatpost quick-release lever is securely tightened, and that the seat does not move when the lever is closed. Ensure that the seatpost minimum insertion marking is fully inserted into the frame.

Battery

- Ensure the battery is charged.
- Ensure there is no damage to the battery.
- Ensure the battery is locked to the frame and is secured. Remove the key before riding.
- Ensure the battery gauge on the Rad UI Display and the charge status indicator on the battery read similarly.

Cables

- Look over electrical cable connectors to make sure they are fully seated and free from debris or moisture.
- Check cables and cable housing for obvious signs of damage.
- Ensure cables are secured away from moving parts.
- Ensure headlight, taillight, and brake light are functioning, adjusted properly, and unobstructed.

Accessories & safety gear

- Ensure all reflectors are properly fitted and not obscured.
- Ensure all accessories and components installed on the ebike are properly secured and functioning according to their manufacturer’s specifications.
- Check all safety gear, clothing, cargo, and accessories for loose or potentially loose elements and secure them.
- Ensure rider and any passengers are wearing a helmet and other required riding safety gear, and inspect these items for signs of damage.
- If your ebike has fender/mudguards: Ensure they are centred over the wheels, adjusted properly, properly secured (see [“Tools and torque specifications” on page 11](#)), and have no cracks or holes.



WARNING: Riding your ebike when any component's useful life is surpassed can cause that component to fail, resulting in loss of control, serious injury, or death. Pay attention to signs of wear such as cracks, scratches, component colour change, and operational changes that could indicate a component needs replacing. Before each ride, check your ebike using the [“Safety checklists” on page 33](#). Perform regular maintenance according to [“Recommended service intervals” on the next page](#). If you're not sure you have the experience, skills, and tools to perform safety checks and regular maintenance, consult a professional, reputable bike mechanic for help.

AFTER EVERY RIDE

- Store your ebike and battery in a dry location and follow the advice in [“Parking, storage, and transport” on page 28](#).
- Guard against damage from the elements. See [“Guard against rust, corrosion, and water damage” on page 40](#).
- Charge your battery in a dry, indoor location according to the directions in [“Battery information” on page 17](#).

Maintenance


Follow these maintenance guidelines to ensure your RadCity stays safe and fun to ride.

Check and service your ebike regularly

On any bike or ebike, certain parts need to be replaced periodically due to wear, and sometimes parts become damaged for various reasons. Check your ebike before each ride by following the directions in [“Safety checklists” on page 33](#). Have your ebike regularly serviced by a professional, reputable bike mechanic. See [“Recommended service intervals” below](#) for more information.


Components of any electrical bike are subject to higher wear compared to the components of bikes without power assistance. This is because ebikes can travel at higher average speeds than regular bicycles and generally weigh more. Higher wear is not a defect in the product and is not subject to warranty. Typical components affected are the tyres, brake pads and rotors, forks, spokes, wheels, and the battery.

If you need to replace a part on your ebike, visit radpowerbikes.eu. If you want something that isn't listed there, contact Rad Power Bikes Product Support. Be extremely careful about using parts or accessories that Rad Power Bikes has not tested for safety and compatibility with your specific product.

 **WARNING:** Using aftermarket accessories or components (trailers, stands, vehicle racks, etc.) that have not been tested by Rad Power Bikes for safety and compatibility with your specific ebike may void your warranty, create an unsafe riding condition, result in ebike/property damage, or cause serious injury or death. If you use replacement parts or accessories not tested and recommended by Rad Power Bikes, you do so at your own risk.


Recommended service intervals

Regular maintenance of any bike or ebike is key to ensuring the best possible performance and reducing wear and tear on systems. Ideal service intervals vary depending on use conditions. We generally recommend inspections, service, and necessary replacements be performed at the time and distance intervals described below, but you should have your ebike serviced more frequently if you ride aggressively, with heavy payloads, or in harsh conditions. Have your ebike inspected immediately if you notice problems or your ebike has been involved in a fall or other accident.

 **WARNING:** Have your ebike inspected by a professional, reputable bike mechanic after any fall, crash, or accident, as these can cause damage (visible or internal/not readily apparent), make your ebike unsafe, and lead to serious injury or death. Be particularly cautious about using a battery that has experienced a significant impact from a fall or crash; a damaged battery may not show external signs of damage. Using a damaged battery or charger can create additional ebike damage or a fire hazard. For more information, see [“Battery information” on page 17](#).

AFTER BREAK-IN PERIOD OF 80–160 KM (50–100 MILES)

- Inspect**
- Check all cables and the chain for stretch.
 - Check spoke tension and the trueness of the wheels.
 - Check all bolted connections for loosening and ensure they are tightened to recommended torque values (see [“Tools and torque specifications” on page 11](#)).
- Service**
- Have a professional, reputable bike mechanic perform a thorough tune-up.

 **WARNING:** Certain components can stretch or loosen during any bike or ebike's break-in period, which can lead to component failure and potential injury or death. Be sure to have a professional, reputable bike mechanic perform a thorough tune-up after this break-in period or sooner if you notice any problems or if you ride aggressively, with heavy payloads, or in harsh conditions.

WEEKLY, 160–320 KM (100–200 MILES)

- Inspect**
 - Check hardware for proper torque—see [“Tools and torque specifications” on page 11](#).
 - Check drivetrain for proper alignment and function (including chain, freewheel, chainring, and derailleur).
 - Check wheel trueness and spoke tension, and check for quiet wheel operation (without spoke noise).
 - Check frame for any damage.
- Service**
 - Clean frame by wiping frame down with damp cloth.
 - Clean and grease the chain. More information is available online at radpowerbikes.eu/help.
- Replace**
 - Replace any components confirmed to be broken or damaged beyond repair by Rad Power Bikes Product Support or a professional, reputable bike mechanic.

MONTHLY, 400–1200 KM (250–750 MILES)

- Inspect**
 - Check brake pad wear, alignment, and the brake lever tension.
 - Check for proper shifting and proper derailleur cable tension.
 - Check chain stretch.
 - Check shifter cables for corrosion and fraying.
 - Check wheel trueness and spoke tension, and check for quiet wheel operation (without spoke noise).
- Service**
 - Clean and lubricate drivetrain.
 - Check crankset and pedal torque.
 - Clean shifter cables.
 - Tension spokes and true wheels if any loose spokes are found.
- Replace**
 - Replace shifter cables if necessary.
 - Replace brake pads if necessary (typically when the pad material is thinner than the backing plate).

EVERY 6 MONTHS, 1200–2000 KM (750–1250 MILES)

- Inspect**
 - Inspect drivetrain (chain, chainring, freewheel, and derailleur).
 - Inspect all cables and housings.
- Service**
 - Standard tune-up by professional, reputable bike mechanic.
 - Grease bottom bracket.
- Replace**
 - Replace brake pads.
 - Replace tyres if necessary.
 - Replace cables and housings if necessary.

Checking brakes & motor cutoff switches

All vehicles, including your RadCity, need reliable brakes. Test your brake levers, brakes, and motor cutoff switches for proper functioning before every ride. If anything seems wrong, take your ebike to a local, professional, reputable bike mechanic, refer to our Help Centre (radpowerbikes.eu/help), or contact Rad Power Bikes Product Support.



WARNING: Touching the brake rotor, which has sharp edges and can get very hot while you're riding, can cause serious injury, slicing damage, or burns. The brake rotor heats up from normal friction when the brake pads press against the brake rotor to slow or stop the ebike. Touching the brake rotor with bare skin can also transfer natural oils to the rotor, and oils or other lubricants can decrease braking performance. **Do not touch the brake rotor, especially when it's in motion or after you've been riding your ebike.** Touch the brake rotor only for necessary maintenance when it is cool, not moving, and while you are wearing gloves or using other appropriate protective equipment.



1. **Test the brake levers.**
 - a. Fully squeeze each lever, and ensure neither the front nor rear brake lever touches the handlebar grips.
 - b. Ensure both brake levers are properly lubricated. If they are, they'll be reasonably easy to squeeze without feeling as though there's grit in the mechanism. When you release them, they will immediately go back to their original position.
 - c. Make sure each lever is properly oriented and firmly secured to the handlebar.
2. **Test each brake.**
 - a. Squeeze the left brake lever to lock the front brake, and then try to push the bike forwards using the handlebar. The front wheel should not spin.
 - b. Squeeze the right brake lever to lock the rear brake. Again, push against the handlebar to try moving the bike forwards. The rear wheel should not spin.
3. **Test the motor cutoff switches.** The front and rear brake levers contain motor cutoff switches, which cut off power from the motor whenever the brakes are applied.
 - a. In a clear, open area, turn on the bike. With appropriate safety gear and clothing, sit on the bike.
 - b. Squeeze the left brake lever to engage the front brake.
 - c. Lightly apply the twist power assist. The bike should not move since the brake is applied.
 - d. Release the twist power assist.
 - e. Release the brake.
 - f. Test that the twist power assist now operates with the brake not engaged.
 - g. Release the twist power assist.
 - h. Perform steps "a" – "g" again, this time with the rear brake lever (on the right side of the handlebar).

Tyre and wheel care

The tyres and inner tubes that came with your ebike are designed for durability and safety for regular cycling activities. Wheels and tyres need to be checked before each use to make sure they're in good condition. Always replace tyres and inner tubes that have punctures, cuts, bulges, damage, or excessive wear before you ride.

TYRE INFLATION

Inflate tubes and tyres to within the PSI (pounds per square inch) range stamped onto the tyre sidewall. For additional information about tyre pressure, please consult our Help Centre at radpowerbikes.eu/help.

NOTICE: Be sure not to confuse the PSI value on your tyre sidewall with the "TPI" (threads per inch) value, which may also be listed there.



WARNING: Underinflating your tyres can result in loss of control. Overinflating can make tyres burst. Either scenario can lead to serious injury or death. Always maintain the correct air pressure of your tyres, which is listed on the tyre's sidewall, and use a regulated air source with pressure gauge so that you can measure pressure accurately.

WHEEL "TRUENESS"

Your wheels should always spin straight ("true") and must be repaired or replaced if they wobble side to side or up and down when spinning. To test them, do this:

1. Spin the wheel.
2. Brace a dull pencil against the frame or fork, with the tip just touching the rim.

If the gap between the spinning rim and pencil changes more than 5 mm, your wheels may need truing. If your wheels become untrue or if spokes loosen, which can happen with normal use, we recommend that you have a professional, reputable bike mechanic perform wheel tuning and truing operations. Do not attempt to true wheels or tighten spokes unless you have the highly specialized skills and tools to do so.

TYRE REPLACEMENT

Even tyres equipped with built-in flat-preventative tyre liners, like those that come with your RadCity, can and do get flats from punctures, pinches, impacts, and other causes. If you get a flat tyre or see evidence of tyre wear, you must replace your tyre and/or tubes before operating the ebike again. Otherwise, you risk ebike damage, serious injury, or death.



CAUTION: Removing a tube from your wheel rim before the air has been released from it can cause the tube to burst, potentially causing serious injury. Always release air pressure before removing your tube.



WARNING: Aftermarket tyres or inner tubes not provided by Rad Power Bikes may not be compatible with your wheels or the performance requirements of your ebike. Such tyres can fail or create unsafe riding conditions, causing serious injury or death. Always use replacement tyres and tubes that are sized to be compatible with your ebike frame. For safety, and if required by law, ensure replacement tyres have sufficient reflective sidewall striping.

After replacing a tyre or removing the wheel for any other reason, be sure to tighten your axles according to the values listed in [“Tools and torque specifications” on page 11](#). For more information on tyre or tube replacement, visit radpowerbikes.eu/help or contact Rad Power Bikes Product Support.

Handlebar twist and push tests

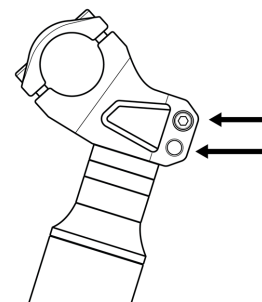


WARNING: An improperly secured wheel and/or handlebar stem can cause loss of control, accidents, serious injury, or death. Check that the front wheel and handlebar stem are properly secured during assembly and before each ride.

HANDLEBAR TWIST TEST

The following twist test will help you verify that your stem clamp bolts are tight enough.

1. **Get the ebike ready for testing.** Turn off the ebike, remove the battery, and press and hold the power button to discharge remaining power.
2. **Brace the front wheel.** Stand at the front of the ebike, facing the handlebar, and brace the front wheel between your feet and lower legs.
3. **Try to twist the handlebar.** Hold both handlebar grips and push forwards with one hand while pulling back with the other. Push and pull at the same time with about 9 kg of force with each hand.
4. **Ensure the handlebar and wheel stay properly aligned.** The handlebar and handlebar stem should be tightly secured, and the handlebar should be perpendicular to the front wheel.
5. **Repeat the twist test pulling/pushing with the opposite hands,** using about 9 kg of force pushing with one hand and 9 kg of force pulling with the other hand.
6. **Check for any movement or changes in alignment of the stem and handlebar relative to the front wheel.** If there was no alignment change, skip the next step, reinstall your battery, and test your ebike fully before riding. If you did *not* notice change in alignment, proceed to the next step. If you *did* detect movement, you'll need to loosen and retighten the stem clamp bolts according to the directions in the assembly instructions. Be sure to tighten your bolts according to the values listed in [“Tools and torque specifications” on page 11](#).



Stem clamp bolts

HANDLEBAR PUSH TEST

This test will involve applying force directly to your handlebar to see whether it could pivot unexpectedly during operation. The illustration at right shows the type of motion this procedure tests for.

1. **Get the ebike ready for testing.** Turn off the ebike, remove the battery, and press and hold the power button to discharge remaining power.
2. **Make sure your handlebar is centered on the stem.** Your handlebar has the widest diameter at its centre. If it isn't centred, it could come loose. Centre your handlebar, loosening and retightening the stem faceplate bolts as necessary.
3. **Brace your front wheel.** Roll your ebike up to a wall so that your front wheel is touching the wall and is perpendicular to the wall. Stand over your frame as though you're about to ride it, and then sit down. If necessary, lower the seat so that you can sit on it while your feet are on the ground. Place both hands on the handlebar and squeeze the brake levers.
4. **Push your handlebar.** Begin by pushing with medium force, watching for any pivot in the handlebar. Increase the force until you are pushing as hard as you can, ideally with 45 kg of total force.
5. **If your handlebar did not pivot, it's tight enough.** If your handlebar did pivot, you will need to loosen and retighten the stem faceplate bolts as described in the assembly instructions. Be sure to torque the bolts according to ["Tools and torque specifications" on page 11.](#)



WARNING: Improperly securing your handlebar, stem, or stem riser can result in loss of control of your ebike, serious injury, or death. If you are not sure you have the experience, skills, and tools to correctly perform all steps to secure and verify the security of the handlebar, front wheel, and handlebar stem you MUST consult a professional, reputable bike mechanic to check your work and/or secure those components to the ebike properly.

Guard against rust, corrosion, and water damage



WARNING: Damage to your ebike's electrical system caused in any manner, including water intrusion, can lead to battery failure, electrical system malfunction, or electrical fire and consequent property damage, injury, or death. Follow all instructions to minimize chance of water damage. If you have any questions, contact Rad Power Bikes Product Support.

Like any vehicle used outdoors, your RadCity needs care to ensure it isn't damaged by the elements. Follow these steps for a long, healthy life for your ebike:

- Store under shelter and in an upright position; avoid leaving the ebike in the rain or exposed to corrosive substances such as water, salt, or de-icing substances. If exposed to rain, dry your ebike afterwards, and apply an anti-rust treatment to the chain and other unpainted steel surfaces.
- To clean your ebike, turn it and the battery off and wipe the frame with a clean, 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. **Never use high-pressure water on your ebike.** Wipe down your ebike frequently and wipe or spray all unpainted mechanical parts with anti-rust treatment.
- If painted metal parts become scratched or chipped, use touch up paint or nail polish to prevent rust.
- **Never immerse or submerge the ebike or any components in water or liquid, which can damage the electrical system.**
- Avoid riding on the beach, in coastal areas with high-salinity fog, or on surfaces treated with salt or de-icing compounds. Doing so exposes your ebike to salt or other substances that are very corrosive. Corrosion of electrical components can lead to permanent damage that can cause battery failure, electrical system failure, or electrical fire. Damage from corrosion is not covered under warranty.

Troubleshooting

Problem	Most common solutions
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Ebike doesn't work:

Insufficient battery power	Charge the battery
Battery is in ship mode	End ship mode by pressing and holding the battery button for at least three seconds (feature available on models)
Battery not fully seated in tray	Install battery correctly
Faulty connections	Clean and reconnect connectors
Improper turn-on sequence	Turn on ebike with proper sequence
Brake is squeezed	Disengage brake
Walk mode stopped	Ensure nothing is keeping any button(s) other than the walk mode button pressed on the UI Remote (on some models)
UI button(s) held	Ensure nothing is keeping any button(s) pressed on the UI Remote (on some models)
Battery non-functional	Replace battery

Irregular acceleration and/or reduced top speed:

Insufficient battery power	Charge or replace battery
Unexpected PAS level setting	Check PAS level
Loose or damaged twist power assist	Replace twist power assist

When powered on, the motor does not respond:

Loose wiring	Reconnect or replace cable(s)
Loose or damaged twist power assist	Tighten or replace twist power assist
Loose or damaged motor cable	Reconnect or replace motor cable
Damaged motor	Replace motor

Reduced range:

Low tyre pressure	Check for tyre punctures or other damage. Inflate tyres to PSI stamped on sidewall.
Low battery	Charge battery
Driving with too many hills, headwind, braking, or excessive load	Assist with pedals or adjust route
Battery discharged for long period without regular charges	Recharge the battery. If range decline persists, consult our Help Centre at radpowerbikes.eu/help .
Brakes rubbing	Adjust the brakes
Faulty, damaged, or aged battery	Contact Rad Power Bikes Product Support to replace battery. Disconnect and store damaged battery in a safe location and recycle or dispose of as soon as possible according to local rules.

The battery won't charge:

Charger not well connected	Adjust the charger connection
Charger damaged	Replace the charger

Battery damaged	Immediately stop use. Disconnect and store battery in a safe location and recycle or dispose of as soon as possible according to local rules. Contact Rad Power Bikes Product Support to replace battery.
Wiring damaged	Replace wiring
Battery non-functional	Replace battery

Wheel or motor makes strange noises:

Loose motor cable connection	Reconnect cable
Damaged wheel spokes or rim	Repair or replace damaged component(s)
Damaged motor	Replace motor

Error detection

Your RadCity is equipped with an error detection system integrated into the display and motor controller. In the case of an electronic control system fault, an error code should appear on the Rad UI Remote and the Rad UI Display. If your bike has an error code displayed at any time, stop riding and look up the error code information at radpowerbikes.eu/help.



Rad UI Remote



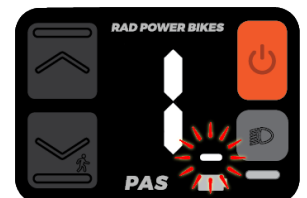
Rad UI Display

The Rad UI Display shows the error code as a number.

The Rad UI Remote displays an error code with a large “E” and lighted bars (circled in green in the “Rad UI Remote” illustration). In the same illustration, the lower two bars represent the first digit, “2,” and the top three bars represent the second digit, “3,” to form the error code “23.”

The following error codes are the most common.

Error	Definition
21	Abnormal current
22	Twist power assist fault
23	Motor phase fault
24	Motor hall fault
25	Brake switch fault or the brake applied while turning on
30	Communication fault
31	Power button hold fault
34	Walk mode disengage fault




If the Rad UI Remote shows a single flashing charge-level light, that can indicate either a low battery or a communication error.

In some cases, a communication error can display as a low battery signal on the Rad UI Remote. If you notice that your Rad UI Remote shows only one battery charge level light, and that light is flashing, check the battery level on the battery itself. If the battery does not also show a very low charge, you should assume you have a communication error (error 30) and follow the connector check guide for your ebike on our Help Centre (radpowerbikes.eu/help).

If an error code displays, make note of the number or take a picture. Try turning the ebike off and then back on. If the error persists, turn off the ebike and then stop touching it to ensure you aren't causing the error by accidentally pressing a button, etc. Go to our Help Centre (radpowerbikes.eu/help) to look up information on the error code.


Ride as safely as possible

Operating any bike or ebike is an exciting, delightful, and practical way to get around, but like any sport, it involves risk of injury and death. By choosing to ride any bike or ebike, you assume responsibility for those risks.


 **WARNING:** Incorrect assembly, maintenance, or use of your ebike can cause component or performance failure, loss of control, serious injury, or death. Even if you're an experienced bike rider, **you must read and understand the entire manual and any documentation provided for subcomponents or accessories before riding.** If you are not sure you have the experience, skills, and/or tools to correctly perform all assembly steps in the manual and the assembly video at radpowerbikes.eu/manual, have a local, professional, reputable bike mechanic assemble your ebike.

Age and ability requirements

You must be age 16 or older to operate the RadCity. You must also have the physical ability, reaction time, and mental capability to understand and obey all local laws governing ebike usage and to manage traffic, variable road conditions, and sudden situations. If you have an impairment or disability (e.g., visual impairment, hearing impairment, physical impairment, cognitive or language impairment, seizure disorder) or any other limitation that could affect your ability to safely operate a vehicle, consult your physician before operating any bike, ebike, or similar vehicle.

 **WARNING:** This ebike is not to be operated by anyone under the age of 16. Children under the age of 16 may lack the necessary judgment and skill to safely operate the ebike, potentially resulting in damage to the ebike, damage to other property, serious injury, and/or death. Please also check your local laws, which may require a higher age. It is your responsibility to know and obey local regulations regarding rider age and other qualifications.



 **DANGER:** Riding any vehicle under the influence of alcohol, drugs, or any substance or condition that could impair your motor function, judgment, reaction time, or ability to safely operate a vehicle puts you at VERY HIGH RISK of serious injury or death. Operate your ebike or other vehicles only when you're sober and otherwise physically and mentally prepared to ride safely.

Know and obey all relevant local laws


The RadCity 5 Plus is a 250 watt (W) pedelec. Please check relevant legislation in the locations you intend to ride for a full understanding of all necessary legal requirements for operating your RadCity 5 Plus. This manual will refer to your RadCity 5 Plus as the "RadCity 5 Plus," "RadCity," "bike," "ebike," or "electric bike." It is your responsibility to know the local laws that govern any type of vehicle you use.

Ride appropriately for conditions

Always travel at speeds appropriate for local terrain and conditions as well as your experience level. **When in doubt, slow down.**

Ride with your headlight on, which will make you more visible in any conditions. The headlight will turn on when the ebike is powered on. We recommend you keep it on whenever you ride.

Concentrate on the path ahead. Avoid potholes, gravel, ice, wet or oily roads, wet leaves, kerbs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards, and puncture-flat risks.

 **WARNING:** Crossing train tracks or similar grooved or raised surfaces at a diagonal can make the surface "grab" or deflect your wheel, causing your ebike to suddenly get stuck or crash, leading to serious injury or death. Always cross such hazards at a perpendicular angle or, when in doubt, dismount and walk your ebike across.

PATH RIDING

Be a good citizen of shared-use paths and facilities. Keep your speed reasonable and below path speed limits, pass carefully and kindly. Use your voice and/or bell to signal your presence to others, especially when passing. Keep in mind that your ebike is heavy, can go at high speeds, and can hurt others if not operated with care.

ROAD RIDING

When riding on streets, obey the same road laws as all other road vehicles as well as local rules governing bike or ebike usage. Sharing the road with other vehicles presents many hazards. Always take these precautions:

- Expect the unexpected such as opening car doors or cars backing out of driveways.
- Be extra careful at intersections and when preparing to pass other vehicles or other cyclists.
- Ride predictably, in a straight line, and with the flow of traffic. **Never ride against traffic.**
- Use correct hand signals to indicate turning, and do so well in advance of turning.
- Ride defensively. To other road users you may be hard to see.
- Increase your visibility by following the tips in [“Low-visibility conditions” below](#).

OFF-ROAD RIDING

Riding off road requires close attention and specific skills, and it presents variable conditions and hazards. Don't ride off road unless you have the appropriate skills. If you choose to ride off road, wear appropriate safety gear and do not ride alone in remote areas.

LOW-VISIBILITY CONDITIONS



WARNING: Riding at night or in other low-visibility conditions (dawn, dusk, fog, rain, mist, snow, etc.) makes it harder to see and avoid hazards and makes it harder for others to see and avoid you, which increases risk of accidents, serious injury, or death. Wet, slippery surfaces will compound your risk of injury or death. Avoid these conditions whenever possible. If you must ride in these conditions, following the guidelines below can reduce risk.

- Wear reflective and brightly coloured clothing.
- Slow down.
- Use familiar routes with street lighting if possible.
- Ensure tyre wall, pedal, and other reflectors are installed and unobstructed.
- Ensure headlight and taillight/brake light are functioning correctly and unobstructed. Use them.

WET CONDITIONS

Your RadCity 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.



WARNING: Riding in wet conditions means slippery hands, feet, and riding surfaces, which greatly increases your risk of accidents, serious injury, or death. Low-visibility conditions (night, dusk, dawn, fog, mist, rain, snow, etc.) will compound your risk of injury or death. Avoid riding in such conditions. If you choose to ride in wet conditions, you do so at your own risk. Follow the recommendations below to reduce that risk.

- Decrease riding speed to help you control the ebike in slippery conditions.
- Brake earlier since it will take longer to slow down than in dry conditions.
- Take care to be more visible to others on the road, following the tips in [“Low-visibility conditions” above](#).
- Remember that road hazards are more difficult to see when wet, so proceed with extra caution.

EXTREME RIDING

There are no appropriate conditions for extreme riding. Although many articles, advertisements, and catalogues depict extreme riding, Rad Power Bikes strongly advises against such inappropriate and dangerous use of its products.



DANGER: Extreme riding puts you at **VERY HIGH RISK** of serious injury or death. Extreme riding includes but is not limited to jumps, stunts, or any riding that exceeds your capabilities or the strength and integrity limitations of certain ebike components and/or otherwise leads to dangerous situations. Never engage in extreme riding or any type of riding that exceeds your capabilities.

Wear a helmet and appropriate safety gear

We strongly advise that you and any passenger you carry wear a properly fitting, certified bicycle safety helmet while riding your ebike, which may be required by law in your area.

Wear appropriate safety gear including closed-toe shoes. If you are wearing loose pants, secure the bottom using appropriate leg clips or bands to prevent the fabric from flapping and getting caught in the chain or other moving parts. Never use items such as headphones or hoods that can compromise your hearing or field of vision. A local, professional, reputable bike shop can help advise you on what gear is best for the weather and other riding conditions in your area.

Maximize your visibility with bright colours and reflective outerwear or vests. Never compromise your ability to be seen or heard by removing your ebike's reflectors, blocking or removing the headlight or taillight, or removing the bell.



DANGER: Riding any bike, ebike, or similar vehicle without a helmet puts you at **VERY HIGH RISK** of serious head injury or death. Always wear a properly fitted helmet that covers the forehead. Many locations require specific safety devices. It is your responsibility to familiarize yourself and comply with the laws, rules, and regulations where you ride.



WEAR A HELMET

Limited warranty and other terms

Your ebike's warranty and other binding legal terms (e.g., terms of purchase, etc.) are subject to change at any time. To view your terms of purchase, go to radpowerbikes.eu/terms. To view the current warranty, please go to radpowerbikes.eu/warranty.

RAD POWER BIKES LIMITED WARRANTY TERMS

This Limited Warranty is in addition to your statutory rights.

All Rad Power Bikes ("RPB") E-Bikes (the "E-Bike") purchased in Europe, and their individual Covered Components (as defined herein), are protected against all manufacturing defects in material or workmanship with regard to the Covered Components for two years after the date of receipt of this ebike by the customer (the "Warranty Period"). This Limited Warranty is only applicable to E-Bike purchases in the UK and EU (purchases in the United States or Canada shall be subject to the applicable warranty terms offered by RPB in those jurisdictions) and in accordance with the following terms:

- Only the original owner of the E-Bike is covered by this Limited Warranty. The Warranty Period begins upon your receipt of the E-Bike and shall end immediately upon the earlier of the end of the Warranty Period or any sale or transfer of the E-Bike to another person, and under no circumstances shall the Warranty apply to any subsequent owner or other transferee of the E-Bike.
- The Limited Warranty is expressly limited to the replacement of any of the following components that come standard on your ebike model (not all parts listed come standard with all models), if those components are found to be defective: lithium ion battery (the "Battery"), frame, forks, stem, handlebar, headset, seat post, saddle, brakes, lights, bottom bracket, crank set, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, chain tensioner, motor, throttle, twist power assist, controller, wiring harness, LCD display, LED display, UI display, remotes, kickstand, reflectors and hardware (each a "Covered Component").

THIS LIMITED WARRANTY DOES NOT COVER

- Normal wear and tear of any Covered Component.
- Consumables or normal wear and tear parts (such as tyres, tubes, brake pads, cables and housing, grips, chain, spokes), unless defective when received.
- Any damage or defects to Covered Components resulting from failure to follow instructions in the E-Bike owner's manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, installation of parts or accessories not originally intended or compatible with the E-Bike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance.
- For the avoidance of doubt, RPB will not be liable and/or responsible for any damage, failure or loss caused by any unauthorized service or use of unauthorized parts.
- The Battery is not warranted from damage resulting from power surges, use of an improper charger, improper maintenance or other such misuse, normal wear or water damage.
- Damage that occurs during shipping if the owner sets up their own shipping option or if the bike is shipped using a freight forwarder or similar service.
- Any products sold by RPB that is not an E-Bike.
- Shipping damage if such damage is not reported to RPB within 30 days from receipt of product.

DETERMINING WHETHER DAMAGE OR DEFECT TO AN E-BIKE OR COVERED COMPONENT IS PROTECTED BY THIS LIMITED WARRANTY SHALL BE IN SOLE DISCRETION OF RPB.

CLAIMS PROCESS

RPB WILL NOT REPLACE ANY COVERED COMPONENT UNDER THIS LIMITED WARRANTY WITHOUT FIRST SEEING PHOTOS OR VIDEO OF THE DAMAGED COVERED COMPONENT.

Before making a warranty claim, we suggest that you contact our Product Support team at eu-support@radpowerbikes.com as there may be a simple fix for your problem.

Subject to your rights to cancel set out in the Consumer Purchase Terms and Conditions, in order to exercise your right to receive a replacement for a Covered Component under this Limited Warranty, you must:

- Contact the RPB Product Support team by email at eu-support@radpowerbikes.com or by phone at +31-85 7470430 or UK: +44 800 069 8513. The Product Support team will initially work with you on the problem with your E-Bike to identify potential simple fixes.
- In the event that the Product Support team determines that a Covered Component must be replaced, they will provide you with a set of instructions for returning the defective Covered Component and receiving the replacement.
- After you receive the replacement Covered Component, the Product Support team will also provide assistance in determining how to replace or install the new Covered Component into your E-Bike.
- You will be responsible for shipping costs associated with returning a Covered Component, unless RPB agrees in writing to pay for such shipping costs. Replacement Covered Components under this Limited Warranty shall only be shipped to the address of the original purchaser.

All claims to this warranty must be made through Rad Power Bikes within 2 years of initial purchase. Warranty claims may be submitted to eu-support@radpowerbikes.com

Warranty parts will only be shipped within the 26 countries we are currently shipping to. If you had your E-bike delivered to one country and then shipped to another country, parts will only be sent to the country in which the bike was originally delivered.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER STATUTORY RIGHTS IN RELATION TO THE PRODUCTS AND THOSE RIGHTS ARE NOT AFFECTED BY THIS LIMITED WARRANTY.

Watch the assembly video!

Get your latest manual!

We do our best to make this manual as clear, comprehensive, and accurate as possible, but sometimes we learn new things, catch errors, improve explanations, or add important new safety information. The manual you're reading right may not be the latest version unless you just downloaded it.

Please go to our Help Centre at radpowerbikes.eu/help to download the latest manual and to watch your assembly video so you can have the safest, most enjoyable experience with your new ebike!

Thanks for riding Rad!