



Wheel Systems

Owner's Manual





Congratulations!

You have chosen wisely and we thank you for purchasing the world's finest high performance wheel system. We build all wheels by hand and we are proud to have built them for you.

Because there are a variety of Rolf Prima and Astral Cycling wheels, this manual may contain information that does not apply to your. Some illustrations may show details which vary from your wheelset. If you have any questions after reading this manual, please consult www.rolfprima.com, www.astralcycling. com, your dealer or contact us at info@rolfprima.com or info@astralcycling.com. There is much more compatibility and installation information on our website.

The structural condition of your wheels and correct installation are crucial to your safety. It is important that you read this manual thoroughly before riding to ensure that your wheel system functions properly and safely.

Please register your wheelset at www.rolfprima.com or www.astralcycling.com with the serial numbers of your wheels. These are located on the card that came with your wheels and on each rim by the valve hole.

Rolf Prima info@rolfprima.com 541-868-1715 www.rolfprima.com

Astral Cycling info@astralcvcling.com 541-868-1715 www.astralcycling.com



Inspection – Before Every Ride

Before every ride be sure to inspect every item on this list to ensure your Rolf Prima or Astral Cycling wheels are in top condition and are properly installed on your bicycle. If you find that your wheel system requires service or further inspection, see www.rolfprima.com or www.astralcycling.com for our Factory Service Program or contact your dealer.

- Check that the wheels run true
- Check that the rims are clean

Dirty or greasy rims greatly reduce braking effectiveness and can present a significant safety risk.

- Check that the brake pads are clean and properly adjusted
- Check that the tires are properly inflated

For clincher tires, inflate tires to the inflation pressure indicated on the tire or as indicated in the TIRE SIZE AND PRESSURE GUIDE at rolfprima.com or astralcycling.com · whichever is lower. Inspect the tires for damage or excessive wear. If you have any questions about the conditions of your tires, have them inspected by your local bike shop.

PLEASE NOTE: Rims can be damaged if ridden with insufficient tire pressure. Appropriate pressure dependent on road conditions, rider weight and tire size. Impact damage to rims is not covered under your warranty.

Check that the quick release mechanisms are properly closed

Your wheels are equipped with quick release wheel retention mechanisms. The quick release allows the wheel to be removed and installed without tools. For proper and safe operation, read these instructions carefully.

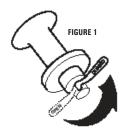
WARNING!

Failure to have wheel quick release retention mechanisms properly adjusted and closed may cause loss of control resulting in personal injury or death. If you have any questions about the operation of this system, consult your dealer.

Operation of Quick Release Mechanisms

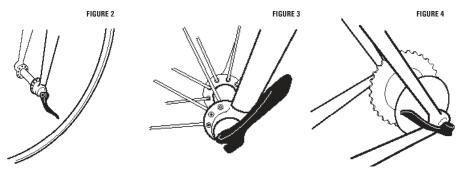
IMPORTANT: IF YOU DO NOT UNDERSTAND ANY PORTION OF THESE INSTRUCTIONS. HAVE YOUR DEALER SHOW YOU PROPER INSTALLATION OR CONTACT ROLF PRIMA OR ASTRAL CYCLING DIRECTLY.

- 1. Check both wheels before every ride.
- 2. Move the quick release lever to the OPEN position and set the wheel so it seats firmly in the frame or fork tips [figure 1].





- 3. With the lever about halfway between the OPEN and CLOSED position [fig. 2], tighten the quick release adjusting nut on the opposite end of the quick release axle until finger tight, ensuring that the nut is threaded on a minimum
- 4. Place the quick release lever in the palm of your hand and move the lever fully into the CLOSED position. [figure 3 for front wheels, figure 4 for rear wheels]. At the halfway closed position you should feel resistance to this motion.



5. If the guick release lever can be moved to the CLOSED position with little or no resistance, clamping strength is insufficient. Return the lever to the OPEN position and tighten the nut further. Close the lever, testing again for resistance. When the quick release mechanism is properly tightened and clamped in the closed position, the clamping force will be adequate to cause metal into metal engagement [embossing] of the fork or frame tips. It should require effort to close the Quick Release, yet it should not be difficult.

DO NOT TIGHTEN THE QUICK RELEASE MECHANISM BY USING THE QUICK RELEASE LEVER LIKE A WING NUT IFIG 51. OVER-TIGHTENING THE QUICK RELEASE MECHANISM MAY CAUSE DAMAGE TO THE QUICK RELEASE ASSEMBLY.

- 6. Perform these two tests to ensure that the quick release mechanisms are properly closed:
 - A. Lift the front of the bicycle and give the top of the tire a sharp downward blow with a closed fist. The wheel should not come out of the fork, be loose, or move from side to side. Repeat this test to the rear wheel, If uncertain, repeat the tightening process, as shown in steps 2-6, above.
 - B. With the quick release lever properly adjusted and closed, it will not be possible to rotate the quick release lever in a circular motion parallel to the wheel as pictured in figure 5.



- Check that there are no loose, damaged, or broken spokes
- Check that there are no cracks in front or rear rims





Inspection - Monthly

- Check that there is no excessive looseness in hub bearings in both wheels
- Check both rims for wear

Bicycle rims will wear from the friction of rim braking and may eventually require replacement. Inspect the rim sidewalls and braking surfaces for heavy grooving or cracks. Excessive wear from braking can result in an accident causing serious injury or death.

WARNING

Inspect your wheels regularly. Make sure your Quick Release mechanisms are closed properly before each ride. Worn or damaged components, or improperly closed Quick Release mechanisms can cause an accident which may result in serious injury or death.

Installation and Recommendations

There are many different drivetrain and tire systems. Before attempting any installation of components onto this wheelset, make sure the parts are compatible. There is much more compatibility and installation information on our website or see your local bicycle dealer for more information.

Brakes and Brake Pads

- Inspect and clean your brake pads frequently. Road grit, small rocks and other items can become embedded in brake pads and cause accelerated wear of the braking surface. If you hear scratching noises when you brake that is a hint. Check and clean your pads.
- Carbon wheels with carbon brakewalls feature a specially prepared braking surface, but can still be susceptible to heat build-up issues and abrasion. These carbon wheels come with Gray brake pads. We strongly recommend the use of the supplied pads as the use of other pads will void the warranty and decrease the braking function. Do not use brake pads that have previously been used with aluminum rims.

Wheels with carbon fiber rims will exhibit different braking characteristics than wheel with aluminum rims. Please refer to our FAQ and carbon rim braking manual insert for more information. Carbon rims do not dissipate the heat generated by braking as fast as aluminum rims. Managing rim temperatures through proper brake application is important. If rims are allowed to overheat, damage to the rim and/or tire can result. During long descents, it is very important that brakes are applied with greater force, more frequently, and for the shortest possible time period. Just like in a car, DO NOT DRAG YOUR BRAKES. The technique of frequent, hard braking and releasing, even if only releasing for brief periods, significantly reduces rim temperatures.



Tires

- Important information about rim strips Each wheel comes with a rim strip or tape installed. Before installing tires, make sure this is in place and completely covers all spoke holes in the tire bed. If the spoke holes are not completely covered, a sudden loss of tire pressure or
- blowout could occur. Do not inflate tires above the pressure listed in the Tire Size & Pressure Guide (see website) or the maximum pressure
- listed on the sidewall of the tire, whichever is lower. Overinflating can cause sudden blowout or damage to your wheels. Do not use Latex inner tubes with carbon clincher wheels.

Valve Extenders

Some carbon road wheels come with a valve extender. Be sure to install the valve extender before mounting the tire. Installation procedure:

- > Remove valve core from tube or tire valve
- > Install valve extender into tube or tire valve. Overtightening can cause damage to the extender. If you are using sealant via the valve, install sealant before reinserting the valve core

WARNING!

Repair and service of your wheels requires special tools and knowledge, and should be undertaken only by a qualified service technician at a professional bicycle shop. Repairs, service, or adjustments performed by an inexperienced person could lead to wheel failure that may cause a crash resulting in injury.

WARNING!

Incompatible or improperly installed components can damage your wheelset and/or cause an accident which may result in injury or death. Make sure your brakes are adjusted and functioning properly. Make sure your tires are installed and inflated properly. Test the braking performance of your new wheels in a safe manner.

WARNING!

Carbon rim wheels can be damaged from excessive heat. Examples can include wheels left in a parked vehicle on a very hot day or placed next to a heat source such as car exhaust on a rear mount bicycle rack. Take care to avoid these situations with carbon wheels.



Hub Bearing Inspection and Adjustment

Inspection

Over time bearings in your hubs may become worn or may otherwise come out of adjustment. See www.rolfprima.com or www.astralcycling.com for hub adjustment instructions. If the bearing feels rough or makes noise, it is time to replace the bearing.

REGISTER YOUR WHEEL WARRANTY

www.rolfprima.com/warranty-registration www.astralcycling.com/pages/warranty-registration

WHEEL LIMITED WARRANTY

Rolf Prima IRP1 & Astral Cycling IAC1 warrants each Rolf Prima & Astral Cycling wheel to be free from defects in material and workmanship for a period of five years from the date of original retail purchase. Decals and bearings are warranted for a period of two years from the original date of retail purchase. The warranty is extended only to the original owner and is not transferable. Proof of purchase and wheel serial number(s) are required for any warranty claim so be sure to keep your receipt.

RP & AC will, at its sole discretion, repair or replace any wheel or wheel component that it determines to be defective with an equivalent part. There is no other remedy, expressed or implied, under this warranty. RP & AC cannot guarantee that all custom colors or decals will be available for replacement, but we will do our best provide a comparable option.

This warranty does not cover normal wear and tear, nor does it apply to damage that is the result of abuse, neglect, improper assembly, improper maintenance, alteration, damage resulting from or relating to use with unauthorized components, modifications or attachments, damage caused by use of the wheels for purposes other than those for which it was designed, including use on unsuitable surfaces or at unsafe speeds, misuse or riding like a complete and utter knucklehead. The costs of disassembly, reassembly or repair of any attached components are not covered by this warranty and are the responsibility of the original owner. Under no circumstance are the costs of shipping to or from Rolf Prima & Astral Cycling covered by this limited warranty. No employee, distributor, dealer or agent of RP & AC is authorized to make any warranty in addition to or different from the foregoing limited warranty.

Unless otherwise provided, the sole remedy under the above warranty, or any implied warranty, is limited to the replacement of defective parts with those of equal or greater value at the sole discretion of Rolf Prima & Astral Cycling. In no event shall Rolf Prima & Astral Cycling be liable for any other damages or liability including for direct, incidental, consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, strict tort, product liability, or any other theory.

THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. INCLUDING BUT NOT LIMITED TO THE IMPLIED. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF LIABILITY

The sole remedy for breach of the limited warranty set forth herein is RP's & AC's repair or replacement, as described herein. In no event shall RP & AC be liable for any other damages or liability, including special, incidental or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory, and including damages arising from or related to any physical injury to person or property. Some states do not allow the exclusion of incidental or consequential damages, so the above exception may not apply to you. This warranty, and statutory law, gives the consumer specific legal rights, and those rights may vary from place to place.

