

# USER MANUAL

Disc Wheels



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## CONGRATULATIONS ON THE PURCHASE OF YOUR NEW LIGHT BICYCLE CARBON AERO WHEEL(S)!

This user guide includes everything you need to know about setting up your new wheels ready for ride. We've also included other helpful information regarding warranty coverage, but for further details, please visit the support pages on [www.lightbicycle.com](http://www.lightbicycle.com). We offer a discount for all returning customers, please contact us ([sales@lightbicycle.com](mailto:sales@lightbicycle.com)) for more details.



## 1. SAFETY INSTRUCTIONS

Improper installation, usage, and service can cause severe damage to the wheels and pose a hazardous condition for the rider. To ensure a reliable riding experience with Light Bicycle products, please read and follow these instructions.

Even if you have been riding for years, the instructions and suggestions are specific to Light Bicycle carbon products and you should be mindful of them before your first ride. If in any doubt, feel free to contact us at [sales@lightbicycle.com](mailto:sales@lightbicycle.com) or leave a comment on any page of our website.

- A. Special tools and basic knowledge of handling the bicycle and wheels are required for installation and maintenance. If in doubt, please consult a reliable bike mechanic or get in touch with us via email, web chat, and online comment.
- B. The wheels must be compatible with other parts of the bicycle including the tires, fork, axles, and cassette. Incompatibility can cause poor performance and potentially damage the wheels or frame/fork.
- C. We design and test the wheels for specific riding purposes. Unfit usage can shorten the product's life and even cause a wheel to crack, potentially causing injuries to the rider. Be sure that you've purchased the correct product for your riding style.
- D. If possible, use your hands to install the tires. Re-insert the tire into the deepest part of the rim over and over again to create enough slack. If you must use a tire lever, use plastic. DO NOT use a metal tire lever as it will permanently damage the rim.
- E. Be careful of hazards while riding (potholes, debris, railway tracks, etc). These could cause a crash potentially resulting in severe injury.
- F. After an excessive impact or crash, there may not be an immediate sign of failure. Please wipe down the rim, and even remove the tire for inspection. Report any potentially severe damage back to us.
- G. Rim-brake customers - Check your rim brake pads regularly for pollutants like metal flakes and stones that can ruin the brake track. DO NOT use pads with significant wear.

- H. DO NOT overheat the wheels. High temperatures can occur in bike transport when a wheel is placed next to the exhaust fumes from an automobile. Overheating of the rims will void the warranty as it damages the composite structure.
- I. Regularly inspect the wheels and watch out for any signs of cracks, scratches, dents, delaminations, or discoloration which could indicate that the wheels may need to be replaced or serviced. If in doubt, please contact us.

## 2. UNPACKAGING

### 2.1 Inspect the Package

Carefully inspect the package when unboxing and document any issues with photos. If the product appears to have been damaged during transit, report a claim to us by email ([sales@lightbicycle.com](mailto:sales@lightbicycle.com)) within 7 days after delivery. We are unable to process delivery claims after seven days. Your email must include a description of the damage, photos of the damage (packing box and the product), and your original waybill.

### 2.2 Inspect Your Wheel(s)

Examine your new wheel before mounting the tire(s).

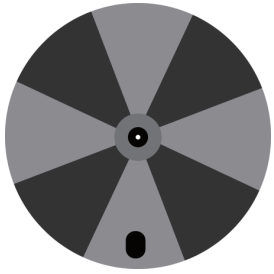
We recommend you:

- 1) Thoroughly inspect the carbon construction and hub for any signs of damage during transit,
- 2) Make sure the wheel matches with your specifications,
- 3) Check the serial number label sticker (essential in the event of warranty).

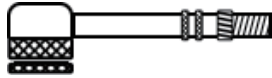
### 2.3 What's In The Box

#### PRECISION C21 Disc

If you choose "Apply Valve Stem" when configuring the disc, by default, our wheel builder installs the valve for you in advance.



Carbon disc



Presta valve  
adapter (if ordered)



Valve & spacer



Valve (Pre-installed  
if ordered)



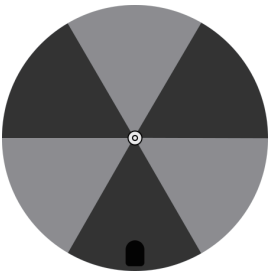
Valve cover stickers  
if ordered



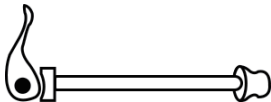
Valve cutout  
stickers(2)

### UFO-C21 Disc

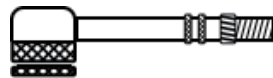
Please note that we only equip the quick-release setup with a QR skewer. If your wheel is the thru-axle type, no axles are included in the package. If you choose “Apply Valve Stem” when configuring the disc, by default, our wheel builder installs the valve for you in advance.



Disc wheel



QR skewer  
(QR setup only)



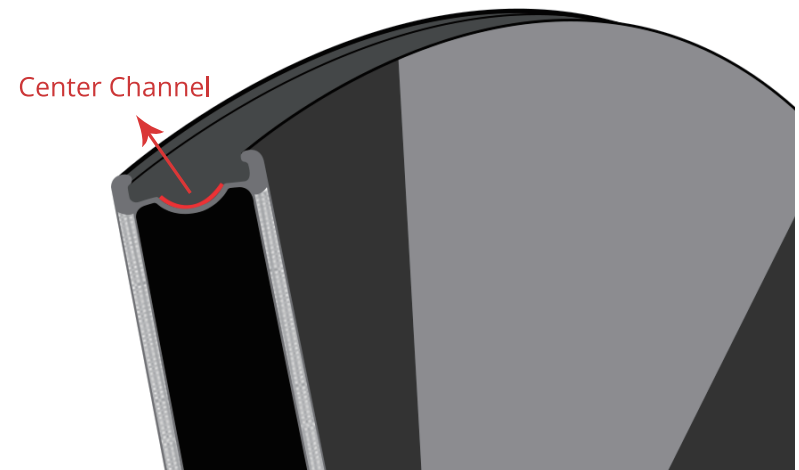
Presta valve  
adapter (if ordered)

## 3. ASSEMBLY

### 3.1 Tire Installation

All our clincher-type wheels are tubeless compatible. We specially design the slope and depth of the center channel (the deepest part of the rim bed) to make the wheel more tire mounting-friendly. The key to easier tire installation is to put both tire beads into the center channel, rather than on the bead seat.

Please refer to the maximum pressures set by the rim and tire manufacturers and adhere to the lower limit, and refer to our website for detailed information on tubeless pressure recommendations and tire size charts. Tutorial videos on tire mounting can be found on our Youtube channel.



### 3.1.1 Installing Valve

To fit the valve stem securely, you may need a set of pliers as the valve opening is not big. If using tools, we suggest bent nose pliers instead of straight nose for easier installation.

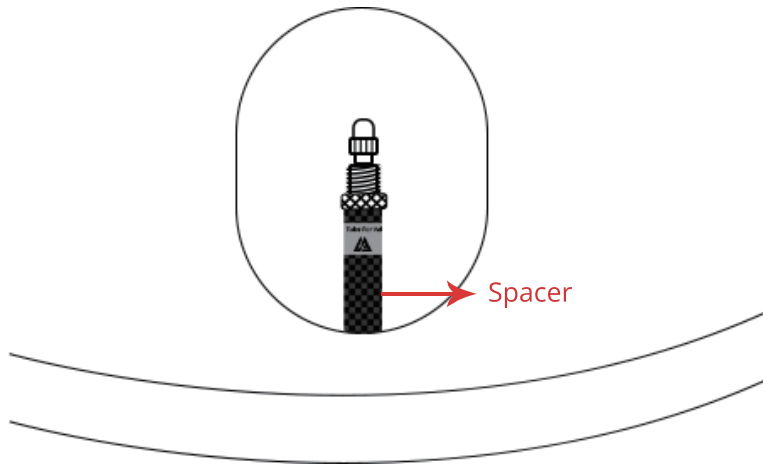
#### PRECISION Disc

Step 1 - Locate the valve hole.

Step 2 - Prep the valve by removing the plastic cap, remove the collar and o-ring, then push the valve stem into the valve hole.

Step 3 - Once the valve is seated in the valve hole on the rim bed, apply pressure on the valve with your thumb or a firm tool.

Step 4 - Install the carbon spacer with the logo sticker facing outwards. Mount the o-ring then screw the collar onto the stem. Tighten the collar and **ENSURE THE COLLAR IS SECURE.**



#### UFO Disc

Step 1 - Locate the valve hole.

Step 2 - Prep the valve by removing the plastic cap, remove the collar and o-ring, then push the valve stem into the valve hole.

Step 3 - Once the valve is seated in the valve hole on the rim bed, apply pressure on the valve with your thumb or a firm tool. Mount the o-ring then screw the collar onto the stem. Tighten the collar and **ENSURE THE COLLAR IS SECURE.**

Tech Notes: Push down on the rubber end with your thumb as you tighten the collar. The rubber base should mushroom out and seal the rim. Do not over-tighten the collar.

### 3.1.2 Tubed Tire Installation

Step 1 - Stand the wheel up and ensure the valve hole is at the top. Align the label of the tire with the valve hole.

Step 2 - Use your hands to mount one side of the tire bead onto the center channel.

Step 3 - Inflate the inner tube a bit to make it easier to mount. Feed the valve stem of the tube through the valve hole. Seat the tube entirely underneath the tire and onto the rim.



[Video: how to install a tight tire](#)

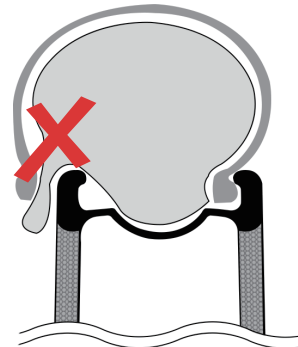
Step 4 - Install the other half of the tire bead onto the center channel of the rim.

Step 5 - Inspect the tire bead area to avoid pinching the tube between the tire and the rim.

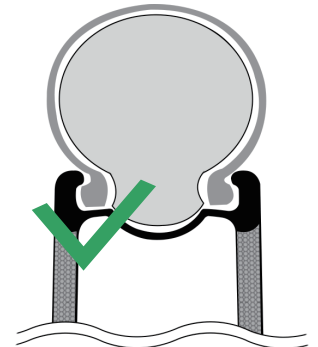
Step 6 - [Mount the valve adapter if needed.](#) Pump up the tire, being careful not to over-inflate. Be sure to check the pressure again before riding.

Step 7 - [Install the valve cover if needed.](#)

Tech Notes: Give the tire a bit of pull upwards to stretch it if the tire is too tight to install fully on the second side of the tire bead. We do not suggest using tire levers, but if you have to, use plastic levers and never use metal ones!



Do not leave the tube to hang outside.



The tube is completely between the tire and rim.

### 3.1.3 Tubeless Tire Installation

You will need: a tubeless valve stem, a valve adapter, a set of pliers (optional), an injection tool for bleeding hydraulic brakes or inserting sealant, and a bottle of tubeless sealant.

Step 1 - [Install the tubeless valve stem](#) and tighten the collar for a good seal (use pliers if needed).

Step 2 - Mount one side of the tire bead onto the center channel of the rim.

Step 3 - Install the other side of the tire bead into the center channel

\*Install the sealant when you have  $\frac{3}{4}$  of this side installed if you do not have an injection tool. Rotate the sealant into an area where both sides of the bead are installed before trying to finish popping the tire fully into the rim.

Step 4 - Inject the sealant through the valve stem (core removed).

Step 5 - [Mount the valve adapter onto the valve](#) (after the core has been reinstalled) if needed.

Step 6 - Inflate the tire to push the beads outwards and upwards to the bead seat on either side of the center channel.

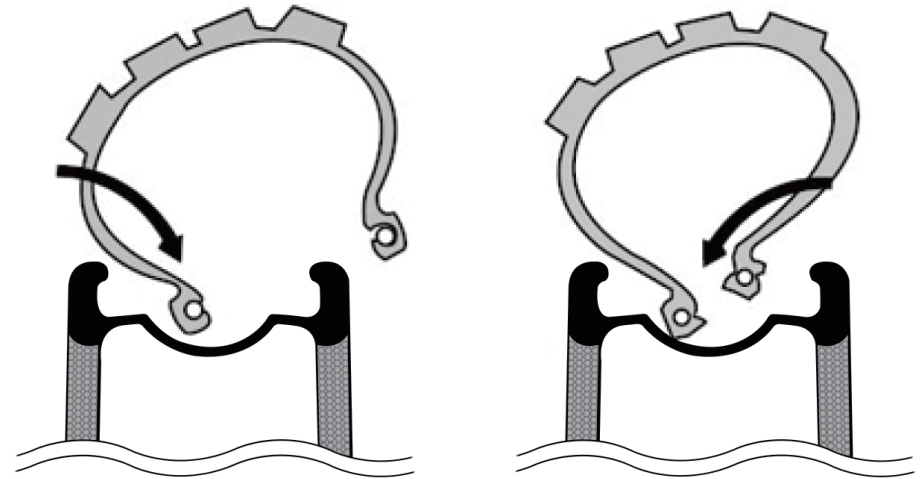
Step 7 - Spin the wheel to cover the inner tire wall with the sealant.

Step 8 - [Install the valve cover if needed](#).



[Video: how to mount a tubeless tire](#)

Tech Notes: Double check that your tires are tubeless compatible. Only use plastic levers. For brand-new tires, use a tube and inflate the tire overnight to straighten it if the foldings are too stiff. If the tire is quite tight, work the tire bead repeatedly into the deepest part of the rim and avoid using tire levers aggressively. Also, try lubricating the tire beads with soapy water or sealant. To make tire bead installation easier, put either side of the tire bead completely into the deep center channel (ensure the gap space is smooth for mounting), then push the other side of the tire bead into the center channel. You will hear a loud pop as the beads snap into the bead seat. Refer to the instructions on the tubeless sealant packaging for amount suggestions.



If you can't manage to mount the tire, please double-check:

(1) The recommended tire width for your wheel/rim

(2) Your tire compatibility. If nothing helps, please contact us with the problem described and we will get back to you asap.

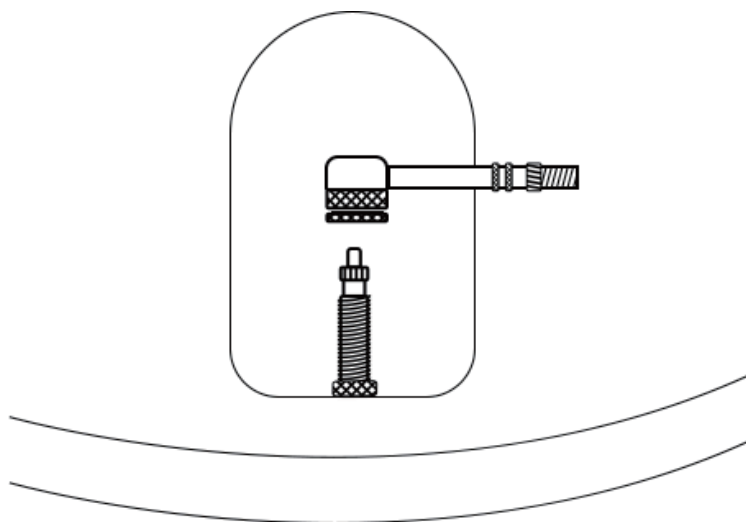
### 3.1.4 Using valve adapter

You will likely need a valve adapter (or the "crack pipe") to assist inflation, as the opening near the valve is usually too small for a traditional pump head to fit into properly. Please note that the valve adapter we offer for disc wheels can only be used on Presta valves.

Step 1 - Install the valve and unscrew the nut.

Step 2 - Insert the valve firmly into the adapter head.

Step 3 - Attach the adapter to a pump head and inflate.



### 3.1.5 Installing valve cover

Each disc wheel is equipped with two stickers to cover the valve cutout for a perfect smooth surface. The stickers are removable for easy replacement or tire reinflation.



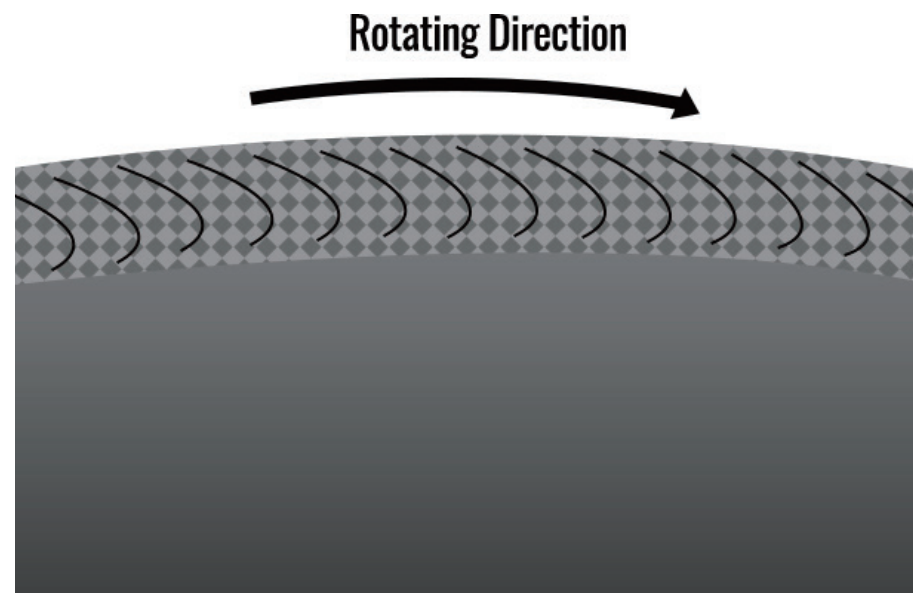
PRECISION VALVE COVER



UFO VALVE COVER

## 3.2 Wheel Installation

Riding a bicycle with unsecured wheels can cause severe injury. Ensure both wheels are centered within the frame. If installing rim brake wheels with grooved graphene brake surfaces, pay attention to our suggested wheel rotation direction.



## 4. SERVICE & CARE

### 4.1 Cleaning the Wheels

Clean your bicycle and wheels regularly to keep things moving smoothly. After a muddy ride, give your wheels a quick wash and then wipe them down with a clean, soft rag. Braking surfaces need special treatment. A bar of mild soap and water should work for the rim brake track. Isopropyl alcohol, which can be found in drug stores, can be used for rim brake and disc brake surfaces. Regularly check your brake pads for metal flakes or hard particles that can ruin the brake track. Wipe off dirt and grime around the hub's seals, and if you need extra protection for the hub, apply some waterproof grease. Do not use a pressure washer or hose to clean your bicycle and components.

## 4.2 Transport

Do not stack heavy things on top of the bike or wheels. We suggest using a carton to protect the wheels. Keep the wheels away from automobile exhaust or other heat sources. Use car racks carefully as the fixing device may impair the rims/wheels.

## 4.3 Maintenance

Bicycle maintenance requires special knowledge and tools. If in doubt, consult a reliable and experienced bicycle mechanic. You need to regularly check the bicycle and wheels, and make some replacements if necessary to maintain a high performance. Please consult the manufacturer for specific instructions on servicing other components.

### Recommended Maintenance Schedule:

Before each ride	Weekly	Every 4 Months	Yearly
Inspect the wheels for any signs of dents, scratches, damages, delamination, discoloration.	Check the brakes (no rubbing against the rim).		Clean and check your rim surface, braking surface, brake pads thoroughly. Repair or replace the rim or pads if needed.
Inspect the tires for air pressure and signs of significant wear, cracks, and slits.  Make sure the valve collar is tight.		Add more sealant.  Inspect the tires for signs of wear and cracks.	Service the tires (refer to the tire manufacturer's instructions).
Check that the wheels are secure and smooth-rolling.	Check that all threads and bolts are tight.  Clean the bicycle.	Check hubs for play and clear friction.	Clean and lubricate the hubs (refer to the specific instructions by the manufacturer or consult an experienced bike mechanic).

\* You can adjust the maintenance frequency based on your actual riding conditions.

## 5. WARRANTY

### 5.1 Limited or Lifetime Warranties

#### Non-Pro Series Products

Light Bicycle warranties all Falcon, Recon, and Drift series rims from manufacturer's defects in materials and workmanship for a period of **3 years** from the date of purchase. Within the warranty period, if your rims are damaged in a crash, we offer a 10% crash replacement discount.

#### Pro Series Products

Light Bicycle warranties all Falcon Pro, Recon Pro, and Drift Pro series rims from manufacturer's defects in materials and workmanship specifications for a limited period of **5 years** from the date of purchase. Or upgrade to a **Lifetime Guarantee** and ride with more confidence. Within the warranty period, if there is a crash accident or your rims wear out, you can replace them at a greatly reduced cost with a 25% crash replacement discount.

The warranty is not transferable and only applies to the original owner. Please refer to our website for detailed information about warranties.

### 5.2 Submitting a Warranty Claim

When submitting a warranty, contact us by email ([sales@lightbicycle.com](mailto:sales@lightbicycle.com)) and we will address your issues within 24 hours.

#### 3 steps to easily file a claim and get you back riding asap:

1. Dismount your tire, locate your product serial number on the rim bed and take a photo of the label.
2. Take a close shot of the affected product area or a video of abnormal noise or cracks.
3. Email us with the serial number of your item, description of the damage, proof of purchase, and the photos/videos.



[Scan the code to visit our website.](#)

## CONTACT US

### Global Shop

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### North American Shop

Email: [support@lightbicycle.com](mailto:support@lightbicycle.com)

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