



## CARBON FIBER WHEELSET OWNER'S MANUAL

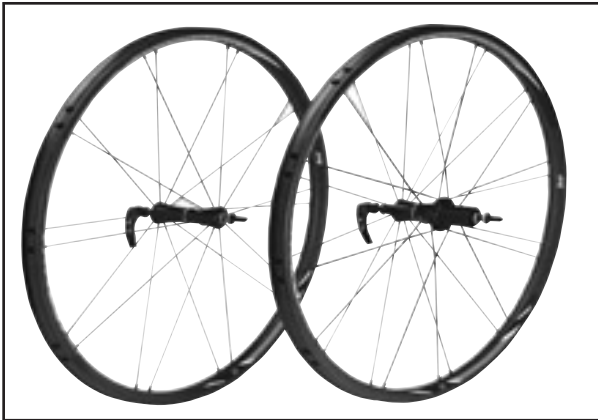


Figure 1- Bontrager Race XXX Lite Carbon wheelset

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## READ THIS MANUAL BEFORE YOU RIDE

This supplement is in addition to the Bontrager Wheelset Owner's Manual. Please read all of the supplied instruction manuals thoroughly before using your new carbon clincher wheelset; the manuals contain important safety and maintenance information.

If you do not understand the information in this manual, or you have a question about your wheelset that this manual does not cover, consult your Bontrager dealer. If you have a question or problem that your Bontrager dealer can't handle, contact us at:

Bontrager Components  
Attn: Customer Service  
801 W. Madison Street  
Waterloo, Wisconsin 53594

920.478.4678  
<http://www.bontrager.com>

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## Introduction

This manual covers the Bontrager Race XXX Lite Carbon tubular and clincher wheelsets and the Bontrager Race X Lite Aero Carbon tubular wheelset. These wheels are constructed with carbon composite rims. The carbon composite material is very light weight and strong, but requires some special care and maintenance. Before riding your new Bontrager carbon wheelset, read and follow your Bontrager Wheelset Owner's Manual, and also the following special Bontrager carbon wheelset instructions.

### Properly install your tires

The **Bontrager carbon clincher** wheelset uses clincher, or wired-on tires (only). When installing or removing your clincher tires, do not use metal tire levers. The maximum inflation on this wheelset is 120psi (8.3atm). Overinflation may damage the rim.

The **Bontrager carbon tubular** wheelsets use tubular type tires (only). Do not ride these wheels without properly attaching the tubular tires. Tubular tires require regular maintenance and inspection for attachment to the rim. Failure to properly fasten, inspect and maintain the tires may cause the tire to separate from the rim causing a loss of control resulting in injury. For instructions on fastening tubular tires to these rims, or maintaining tubular tires, consult the tire manufacturer, or your dealer.

Prior to the first application of rim cement on a new carbon fiber rim the tire well or bed, where the tire contacts the rim, should be roughened. It is recommended that this procedure be done by your dealer. To roughen the tire well of the rim, lightly sand with a 400 grit sandpaper.

## WARNING

**A tubular tire that is not properly attached (glued) to the rim may allow the tire to be loose or come off unexpectedly, causing you to lose control and fall. Follow the tire manufacturer's instructions for proper installation.**

### Use only carbon-specific brake pads

Carbon rims require special brake pads to prevent heat fade and to work properly in wet conditions. Heat fade is a loss of braking performance after long, hard brake application. Carbon fiber rims also can be extremely abrasive in wet conditions, causing standard brake pads to wear prematurely. Only use Bontrager Carbon Brake Pads or a similar product with carbon fiber rims. If your bicycle has carbon fiber rims, also follow the carbon fiber composite inspection procedures.

### With carbon rims, avoid certain chemicals, abrasives, or extreme heat

When cleaning composite parts, do not use solvents, abrasives, or harsh chemicals. Remove road film with a soft rag and a mild detergent and water solution. Use of industrial solvents for cleaning or glue removal may damage not only the rim finish but also the adhesive which joins the rim parts. To clean rims, wipe them with acetone and a clean soft cloth.

Excessive heat, such as that used in powder coating, or any open flame, may damage the adhesive which joins the rim parts. Do not exceed 180° F. (82° C.) exposure to your composite rims.

Removing paint from an OCLV rim requires special techniques and so should

only be done at the factory. See your dealer for more information.

Modifying the wheelset (including hubs, spokes, nipples or rims) in any way will void the manufacturers warranty and may be unsafe.

### **Inspect carbon fiber parts frequently**

Unlike metal parts, carbon composite parts that have been damaged may not bend, bulge or deform; a damaged part may appear to be normal to a cursory glance. After any high force load, like a crash, or other impact to your bicycle, thoroughly inspect all the parts of your bike, and use the following procedures to inspect carbon composite parts.

#### **To check a part for surface problems (visual test)**

1. Clean the part thoroughly with a damp cloth.
2. Look closely for problems: scratches, gouges, cracks, loose fibers (which will appear like thin hairs), or other surface flaws
3. If the part has any problems, do not ride the bike. Take the bike to your dealer for replacement or further inspection.

#### **To check a part for loss of rigidity (flex test)**

1. Use the part in a normal manner (without actually riding) while someone watches carefully for unexpected movement. As an example, if you suspect a composite seatpost has been damaged, sit gently on the saddle while someone watches to see if the seatpost flexes.
2. If the helper sees the part flex unexpectedly, or if the part feels less rigid than it should be, do not ride the bike. Take the bike to your dealer for replacement or further inspection.

#### **To check a part for delamination (tap test)**

1. Clean the part thoroughly with a damp cloth.
2. With a nickel or other coin, tap the part near any possible damage, and places where the part is known to be in good condition (or use a similar part).
3. Listen carefully for variations in sound, especially a hollow sound, "dead" tone, or any sound indicating that the part is not solid.
4. If the part makes any noise other than a hard, solid tap sound, do not ride the bike. Take the bike to your dealer for replacement or further inspection.

## **WARNING**

**A damaged carbon fiber part can fail suddenly, causing serious injury or death. Inspect for damage frequently. If you suspect a carbon fiber part is damaged, replace the part before riding, or take the bike to your dealer for service.**

## Bontrager Limited Warranty

Trek Bicycle Corporation warrants each new Bontrager wheelset against defects in workmanship and materials.

### **This warranty covers-**

The wheelset for the a period of one year from the date of sale.

### **This warranty does not cover-**

- Normal wear and tear
- Improper assembly
- Improper follow-up maintenance
- Installation of parts or accessories not originally intended for, or compatible with, the wheels as sold
- Damage or failure due to accident, misuse, abuse, or neglect
- Labor charges for part replacement or changeover

This warranty is void in its entirety by any modification of the wheelset or its components.

This warranty is expressly limited to the repair or replacement of a defective item and is the sole remedy of the warranty. This warranty extends from the date of purchase, applies only to the original owner, and is not transferable. Trek is not responsible for incidental or consequential damages. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

Claims under this warranty must be made through an authorized dealer. Proof of purchase is required.

This warranty gives the consumer specific legal rights, and those rights may vary from place to place. This warranty does not affect the statutory rights of the consumer.

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