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BONTRAGER™

Aero Brake Levers • Part Number 272789

Aero Brake Levers Owner's Manual

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Read This Manual Before You Ride

Please read this instruction manual thoroughly before using your new brake levers; it contains important safety and maintenance information. If you do not understand the information in this manual, or you have a question about your brake levers that this manual does not cover, consult your Bontrager dealer.

CAUTION

The expander wedge which attaches the brake lever to the handlebar applies force to the inside of the handlebar. Some handlebars may be damaged by this force. Check with the handlebar manufacturer for compatibility before installing Bontrager Race XXX Lite brake levers.

Bontrager Race XXX Lite aero brake levers are compatible with all Bontrager handlebars when installed according to the directions in this manual.

If you have a question or problem that your Bontrager dealer can't handle, contact us at:

Bontrager Components (800) 369-8735

Attn: Customer Service

<http://www.bontrager.com>

801 W. Madison Street

Waterloo, Wisconsin 53594



Figure 1- Bontrager Race XXX Lite aero brake lever



Figure 2- Expander bolt

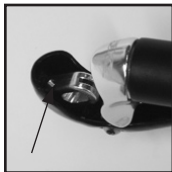


Figure 3- Cable holder set screw

Introduction

The brake system allows you to slow or stop your bike, a function critical to your safety. These instructions explain how to inspect, adjust, and lubricate a specific component of a bicycle braking system: Bontrager Race XXX Lite aero brake levers (Figure 1). The brake system is difficult to adjust properly without the proper tools and training. It is strongly recommended that installation and adjustment of brake system components be done by your dealer.

WARNING

Never ride a bike if you are not certain the brakes are working properly, or you if suspect a problem with the brake cables. Malfunctioning brakes can cause you to lose control and fall resulting in injury or death. If your brakes are not working properly, re-adjust them or take the bike to your dealer for service.

Inspect your brake levers regularly

Every 3 months tighten the bolts on the brake levers (Figures 2-3) until secure, or to these maximum torque specifications:

Expander bolt- 60 Lb•in (6.7 N•m)

Cable holder set screw- 9.0 Lb•in (1.0 N•m)

Adjusting aero bar brake levers

There is no adjustment offered on aero brake levers.

Lubricating aero bar brake levers

Every 3 months lubricate the brake lever pivots with Wrench Force[®] SynLube or a similar light oil.

Installation instructions

The correct installation of new Bontrager brake levers is critical to the rider's safety, so this work should be performed only by an experienced mechanic. If you are not sure of your ability to correctly install these brake levers, have them installed by your Bontrager dealer.

Use compatible parts

Brake levers interface with the handlebar, brake cables, and brakes. Only use parts which are compatible with the specifications of this lever:

- *Brake cable pull is for caliper-type brakes only*
- *Handlebar inner diameters (depending on size)
between 20.0-21.0mm
between 21.0-22.0mm*
- *Handlebar outer diameter less than 24.6mm*
- *Cable ends are ATB-type, 6 or 8mm (Figure 5)*

If you are not sure if these brake levers are compatible with your bicycle, consult your dealer.

To install a brake lever

1. *Slide the expander wedges (Figure 1) into the end of the handlebar.*

Use the largest wedge that easily fits into the end of the bar. Do not lubricate the wedges.

2. Tighten the expander bolt (Figure 2) until the lever is secure, or to a maximum of 60 Lb•in (6.7 N•m).

Make sure the lever is easy to reach when in a normal riding position.

To install a brake cable in the lever

1. Loosen the cable holder set screw (Figure 3) several turns.
2. Push the cable holder (Figure 4) forward through the front of the lever.
3. Slide the cable through the larger, tapered side of the cable holder and through the slot (Figure 5).
4. Push the cable end into the center of the cable holder.
5. Slide the cable through the lever and then through the cable exit hole (Figure 6).
6. Tighten the set screw until snug, or to a maximum of 9.0 Lb•in (1.0 N•m).

The set screw's sole function is to prevent rattling.

To attach the cable and adjust the brake

1. Follow normal procedures to cut the housing, attach the cable, and adjust the brake.

Refer to the brake manufacturer's instructions as needed.

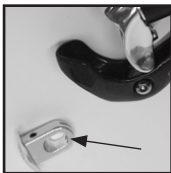


Figure 4- Cable holder

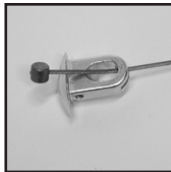


Figure 5- ATB cable in cable holder



Figure 6- Cable exit hole



Figure 7- Minimum lever opening

2. Make sure the brake system provides adequate stopping power:

- *Test ride the bike*
- *Make sure the lever can move at least 25mm (Figure 7), but cannot contact the handlebar under hard braking.*

If the brakes fail these tests, do not ride the bicycle. Readjust the brake system or choose different components.

Limited Warranty

Bontrager warrants each new Bontrager component or wheelset against defects in workmanship and materials:

For the lifetime of the original owner-

- *Bontrager forks*

For one year-

- *All Bontrager parts*

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 Bontrager components or wheelsets 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 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. Bontrager 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 Bontrager 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.