

BÜGELHALTER

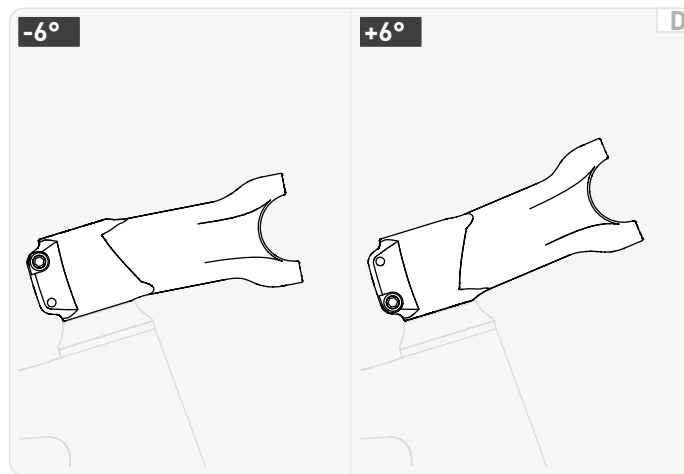
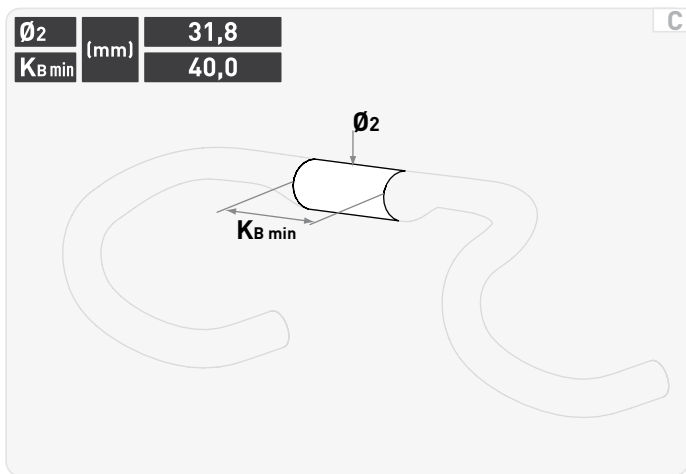
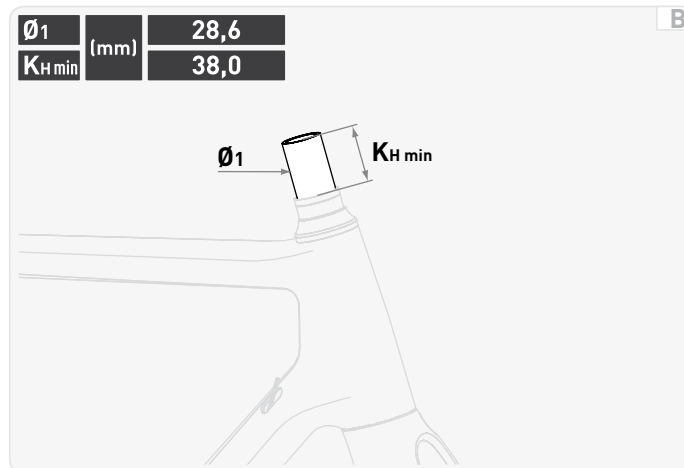
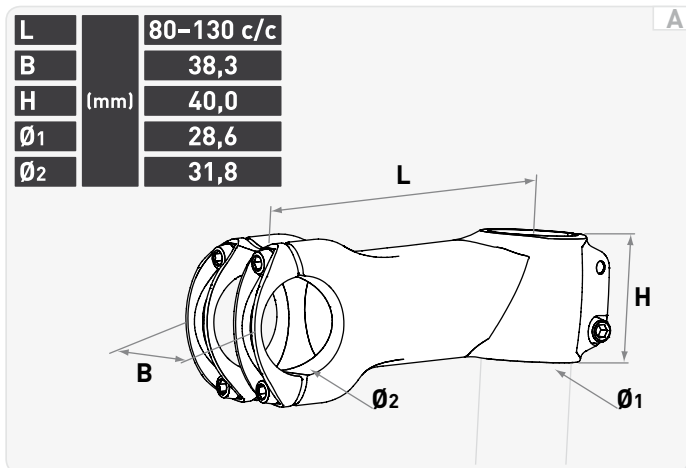


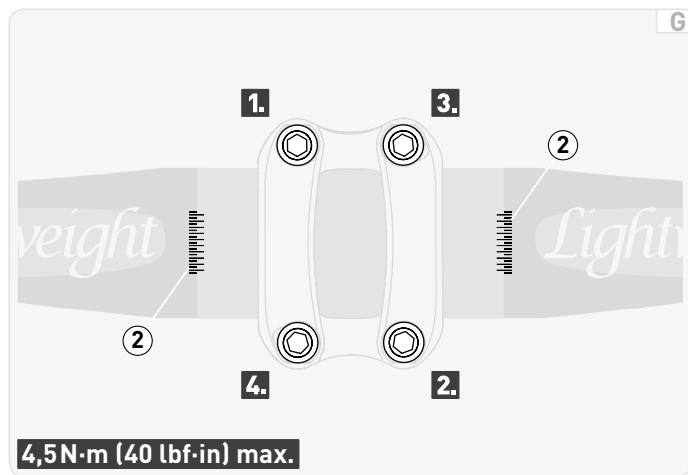
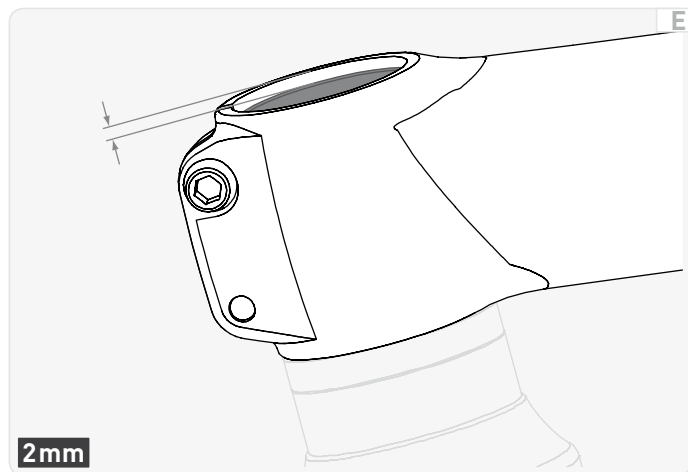
OWNER'S MANUAL



402949 2018-01

DIAGRAMS





Preface

Congratulations and thank you – you have selected a Lightweight stem. Designed in Germany.

This manual is an integral component of your Lightweight product and it provides you with important information regarding its safe operation.

The safety of our customers is very important to us. Please read this manual carefully before installing your Lightweight product or riding with it for the first time.

⚠ WARNING Non-observance of the information contained in this manual could result in a fatal or serious accident.

Our information is there for a reason – our interest in your personal safety!

Read and observe all assembly, maintenance and usage instructions and please remember that even the best product can fail if it is improperly treated.

This applies for components from other manufacturers whose products are used on your bicycle. Read and observe all user instructions.

Keep this manual safe for other users of your Lightweight product. Make sure that all users read, understand and observe this manual. If you ever sell or give away your Lightweight product, this manual should be transferred to the new owner.

We hope you get a lot of enjoyment.

Your Lightweight Team

Lightweight online

Visit www.lightweight.info for information that you will find interesting.

Accessories, spare parts and clothing in the **SHOP**, frequently asked questions in the **FAQS**, interesting facts in **NEWS & PRESS** and much more.

We look forward to meeting you there!

Explanation of symbols

You will encounter the following symbols and references in this manual:

- ☞ The index finger instructs you to perform a particular action.
- ➔ The arrow indicates the consequences of your action or important prerequisites.
- ① This shows additional information or tips.

⚠ WARNING The **WARNING** message indicates a hazardous situation which, if not avoided, could result in a fatal or serious injury.

⚠ CAUTION The **CAUTION** message indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE The **NOTICE** message warns of a risk of material damage.

- The dot indicates how to avoid a hazardous situation or a risk of material damage.

Intended use

▲ WARNING Any use other than that intended can lead to accidents resulting in fatal or serious injury.

Your Lightweight stem is designed exclusively:

- for installation on a standard race bike fork with a precisely fitted outer diameter of the steerer tube. [A]
- for installation of a standard handlebar that meets the specified dimensions. [B]
- for use on a paved or asphalted surface (street/road).
- for a maximum rider weight of 120 kg (265 lb) (rider + rucksack, etc.).

In your own interest

Always remember that riding a bicycle involves potential danger for the rider and other road users, as well as for the bicycle and its components.

Even if protective equipment and safety devices are used, accidents resulting in death or serious injury can still occur.

Furthermore, improperly performed assembly and maintenance work could also result in a loss of your rights with regard to product liability and service!

Always ensure your bicycle is maintained in a flawless condition. Care and maintenance will prolong the service life of your bicycle and its components and improve your personal safety!

If you suspect that your bicycle is defective or is not functioning properly, stop using it and contact a specialist workshop for bicycles!

You should also rely on your common sense and avoid any unreasonable behaviour!

Fundamental safety precautions

▲ WARNING Risk of accident due to damaged stem.

- Do not overestimate your technical ability. All assembly and maintenance work should be performed by a specialist workshop for bicycles. This is the only way to ensure that work is conducted in a professional manner.
- Never make unauthorised modifications to your stem (e.g. drilling holes, grinding, filing, painting etc.).
- Always maintain all specified min./max. values.
- Use a high-quality handlebar exclusively.
- Always use a torque wrench designed for a specified tightening torque.
- Before every ride, make sure that your stem and handlebar are correctly and tightly installed.
- Check your stem for damage before every ride (dents, scratches, cracks, large areas of abrasion etc.). Send us your stem for inspection before using it any further if there is visible damage or if you have any doubts about its condition.
- Never continue using your bicycle after a serious crash. If such a case occurs, send your stem to us for inspection even if no external damage is visible.
In your own interest you should deal in the same way with all components on your bicycle that are produced by other manufacturers.
- Do not use your stem at ambient temperatures below -10°C (14°F) or above 45°C (113°F).
- Protect your stem from lateral pressure. This is particularly important during transport.
- Never fasten your bicycle to a car-roof carrier or elsewhere by the stem.
- Do not store your stem at an ambient temperature below -15°C (5°F) or above 55°C (131°F).

▲ WARNING Risk of accident caused by erratic riding or improper equipment.

- Always observe the traffic regulations of the country where you are riding your bicycle.
- When riding your bicycle always wear a high quality cycling helmet (e.g. ANSI certified), that is in excellent condition and close-fitting but not restrictive.
- Only ride your bicycle if you are in good physical condition and your bicycle and all its components are working perfectly.

NOTICE Never use aggressive solvents (e.g. paint thinner, nitro etc.) as they could damage the surface of your Lightweight product.

- It is best to use water and standard paintwork cleaning products for cleaning.
- Isopropanol, spirits or petrol may be used carefully; however, you should avoid excessive wiping and long exposure times and also any contact with the ornamentation.

▲ WARNING Risk of accident if parts slip or suddenly break due to incorrect installation.

- Make sure that the clamping sections of the steerer tube of your race bike fork and your handlebar have exactly the right outer diameter and sufficient clamping dimensions. **[B][C]**
- Observe all the instructions and information provided in the user instructions from the manufacturer of your race bike fork, your headset and your handlebar.
- Do not exceed a approved tightening torque for clamping the stem.
- Make sure that the clamping sections of the steerer tube of your race bike fork, your handlebar and your stem are free from grease, clean and dry.
- Exclusively use carbon fibre assembly compound.

Installing the stem

- ① You can install your stem in 2 positions – -6° or $+6^\circ$ – depending on your preferred seat position. **[D]**
- ☞ Assemble all components (fork, headset, desired spacer, stem) tightly.
- ☞ Make sure there is a gap of about 2 mm between the top edges of the steerer tube and stem. **[E]**
- ☞ Shorten the steerer tube of your race bike fork if necessary or change the total height of the spacer.
- ☞ Apply a little carbon fibre assembly compound to the clamping sections of the steerer tube of your race bike fork and your stem.
- ☞ Assemble all components (fork, headset, desired spacer, stem) tightly.
- ☞ Adjust your headset to eliminate play.
- ☞ Line up your stem straight and tighten its clamping screws **(1)** alternately and step-by-step until a tightening torque of **max. 4.5 N·m (40 lbf·in)** is reached. **[F]**
- ☞ Make sure that your stem cannot be twisted. Repeat this test after the handlebar and front wheel have been installed.

Installing the handlebar

- ☞ Install your handlebar to the stem – the mark **(2)** will help you to align it exactly. **[6]**
- ☞ Tighten the clamping screws on the stem in stages and cross-wise until the handlebar can no longer be twisted.
Never exceed the approved tightening torque of **max. 4.5 N·m (40 lbf·in)**.

Regular maintenance

Frequency of maintenance work on your bicycle depends on how often and in which weather conditions you are using it. The following maintenance measures should be conducted more frequently if the bicycle is used in extreme conditions (rain, dirt, long distances etc.).

- ☞ Check your stem for damage whenever you clean it (dents, scratches, cracks, abrasion extending over a large area, wear etc.).
- ☞ Periodically check all bolts to ensure that they are firmly seated; when doing so observe the respective tightening torques.
- ① The clamping screws of your stem are made of titanium. However, because this very strong and extremely light metal is subject to fatigue, we recommend replacing them regularly. Use screws of exactly the same size with a minimum strength class of 8.8 and use medium-strength screwlock.
- ☞ Replace all clamping screws of your stem with new screws regularly – every 15,000 km (9320 mi) or every 3 years.

Lightweight

CARBONSPORTS GMBH

Otto-Lilienthal-Straße 15
88046 Friedrichshafen
Deutschland Germany

www.lightweight.info
mail@lightweight.info

Tel: +49 7541 3889 12
Fax: +49 7541 3889 55