

RENNBÜGEL KOMPAKTBÜGEL



Owner's manual



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Preface

Congratulations and thank you – you have selected the best handlebar in the world.

Handarbeit für Beinarbeit. Designed in Germany

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

The safety of our customers is very important to us. Please read this manual carefully before installing your handlebar 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 (brake levers, stem etc.).

Read and observe all user instructions.

Keep this manual safe for other users of your handlebar. Make sure that all users read, understand and observe this manual.

If you ever sell or give away your handlebar, this manual should be transferred to the new owner.

We hope you get a lot of enjoyment from your Lightweight handlebar.

Your Lightweight Team

Lightweight online

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

Accessories, spare parts and clothing in the **FANLAGER**, 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.

RENNBÜGEL: This reference refers only to the corresponding series or its derivatives.

▲ 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.



Your handlebar

Registration

Every Lightweight handlebar is provided with an integrated chip with a 10-digit code – the chip number. This allows every single handlebar to be individually registered.

- ① Only Lightweight products registered by the original owner or reregistered by subsequent owners enjoy our warranty and service provisions!
- ① If you wish to register or transfer the registration of your Lightweight handlebar, you will find the chip number either on the handlebar itself or on the last page of this manual. (fig. 1)
- ☞ Register or transfer the registration of your Lightweight handlebar at www.lightweight.info >>> SERVICE.
- ➔ Our warranty and service provisions are available to you.

Technical data

SERIES	Width (centre-centre) (mm)	Depth (drop) (mm)	Reach (mm)	Stem-handlebar clamp width/Ø min.-max. (mm)	Approved use *	Approved total weight max. (kg/lb)**
RENNBÜGEL	400/420/440	136	79	35-50/31,8	street	120/265
KOMPAKTBÜGEL		123	75			

* street = paved or asphalted surface · allround = street and cross-country · track = velodrome

** Max. permissible total weight = rider + bicycle + luggage

- ① Technical specifications, dimensions and weights are to be understood with the corresponding allowances and can insignificantly differ from your Lightweight product.
- ① All Lightweight products are the result of manual labour. Deviations in colour and surface finish are characteristic features resulting from this high quality manufacturing procedure.

Intended use

⚠ WARNING

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

Your Lightweight handlebar is designed exclusively:

- for installation on standard race bikes.
- for use on a paved or asphalted surface (street/road).
- for installation on a standard stem.
- for installation of standard race brake levers.
- **KOMPAKTBÜGEL:** for installation of commercially available handlebar clip-ons (arm rests, triathlon handlebars, 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 warranty!

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

... assembly & maintenance

⚠ WARNING

Risk of accident due to damaged handlebar.

- 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.
- 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 (tyres, quick release skewers, brakes etc.). Read and observe all user instructions.
- Never make unauthorised modifications to your handlebar (e.g. drilling holes, grinding, filing, painting etc.).
- **RENNBÜGEL:** Never install clamp-on attachments (arm rests, clip-ons, triathlon handlebars etc.) on your handlebar.
- Never install attachments with internal clamps (handlebar-end gear levers etc.) on your handlebar.
- Always maintain all specified min./max. values – see **Technical data**, page 5.
- Use a high-quality stem exclusively.
- **KOMPAKTBÜGEL:** Use a high-quality handlebar attachment exclusively (arm rests, clip-ons, triathlon handlebars, etc.).
- When conducting assembly steps that require a specific tightening torque, always use an appropriate torque wrench that is designed for the tightening torque specified.

NOTICE

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

- It is best to use water and standard paintwork cleaning products.
- 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.

... on the road

⚠ WARNING

Risk of accident due to damaged handlebar.

- Check your handlebar for damage before every ride (dents, scratches, cracks, large areas of abrasion etc.). Send us your handlebar for inspection if there is visible damage or if you have any doubts about its condition.
- Never ride with a damaged handlebar.
- Never continue using your bicycle after a serious crash. If such a case occurs, send your handlebar 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.
- **KOMPAKTBUGEL:** Never support yourself on your handlebar attachment while you are cycling out of the saddle (sway pedal stroke).
- Do not use your handlebar at ambient temperatures below -10 °C (14 °F) or above 45 °C (113 °F).

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 clothing.
- Only ride your bicycle if you are in good physical condition and your bicycle and all its components are working perfectly.

... transport & storage

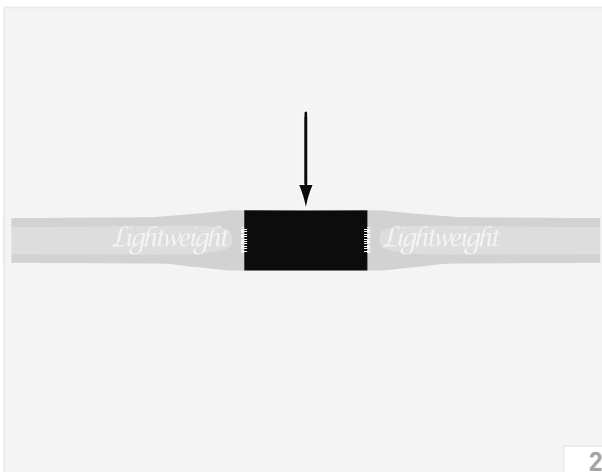
⚠ WARNING

Risk of accident due to damaged handlebar.

- Protect your handlebar from lateral pressure. This applies in particular during transport and when using a handlebar attachment.
- Never fasten your bicycle to a car-roof carrier or elsewhere by the handlebar or handlebar attachment.
- Do not store your bicycle at ambient temperatures below -15 °C (5 °F) or above 55 °C (131 °F).

Disposal

You can dispose of a Carbon product that is defective or no longer in use with your non-recyclable waste or domestic refuse or ask a local waste disposal company for other ways of disposal (e.g. recycling). You can also send a product to us. It will then be disposed of in a way that is harmless to the environment – see **Crashreplacement**, page 11.



Installing handlebar

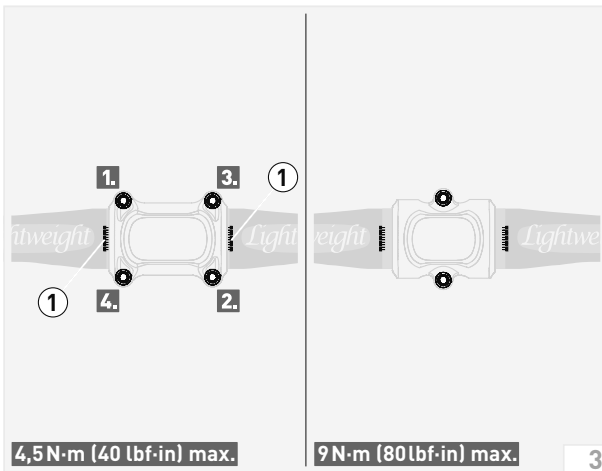
⚠ WARNING Risk of accident due to sudden breakage of handlebar due to unsuitable stem-handlebar clamp.

- Use a high-quality stem exclusively – preferably with a 4-screw stem-handlebar clamp.
- Make sure that the dimensions of the stem-handlebar clamp conform to the required dimensions – see **Technical data**, page 5.
- Make sure that the edges of the stem-handlebar clamp are not sharp.
- Make sure that the edges of the stem-handlebar clamp are clean without burrs or are preferably slightly bevelled or rounded.
- Never exceed the maximum permissible tightening torque.

⚠ WARNING Risk of accident due to failure of stem-handlebar clamp.

- Thoroughly degrease the clamp area of the handlebar and stem.
- Never apply grease or Carbon assembly paste to the clamp area. (fig. 2)

☞ Attach your handlebar to the stem – the mark (1) will help you to align it exactly.



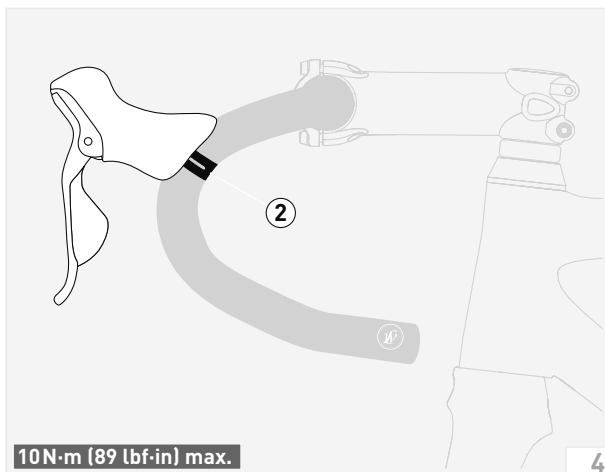
☞ Tighten the clamping screws on the stem in stages and crosswise until the handlebar can no longer be twisted.

Never exceed the approved tightening torque of **max. 4.5 N·m (40 lbf·in)** for a 4-screw stem-handlebar clamp or **max. 9 N·m (80 lbf·in)** for a 2-screw stem-handlebar clamp. (fig. 3)

Installing brake levers

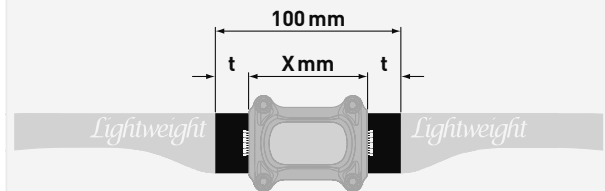
⚠ WARNING Risk of accident due to sudden breakage of handlebar because of unsuitable brake lever-handlebar clamp.

- Use high-quality brake levers exclusively.
- Make sure that the edges of the brake lever-handlebar clamp are not sharp.
- Never exceed the maximum permissible tightening torque. (fig. 4)



- ☞ Follow the instructions of the manufacturer when installing your brake levers.
- ➔ The clamp (2) should be within the marking range (0 ... 40) in the inner range of the handlebar. (fig. 4)
- ⓘ The markings on the inner and outer ranges of the handlebar help you to align the brake levers at exactly the same height.
- ☞ Shorten and position your derailleur and brake cables as specified by the manufacturer.
Fix the outer sleeves to your handlebar with adhesive tape at three or four points.
- ☞ Apply new handlebar tape evenly with moderate tension starting at the bottom of the handlebar.

KOMPAKTBÜGEL:
 $[100 \text{ mm} - X \text{ mm}] : 2 = t \text{ mm max.}$
 $\varnothing = 31,8 \text{ mm}$

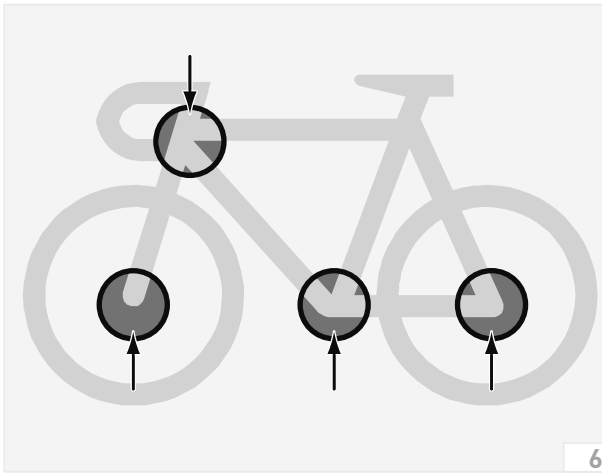


5N·m (44 lbf·in) max.

5

KOMPAKTBÜGEL: Installing handlebar attachment

- ⚠ **WARNING** Risk of accident due to sudden breakage of handlebar due to unsuitable handlebar attachment-handlebar clamp.
 - Use a high-quality handlebar attachment exclusively.
 - Make sure that the dimensions of the handlebar attachment-handlebar clamp conform to the required dimensions. (fig. 5)
 - Make sure that the edges of the handlebar attachment-handlebar clamp are not sharp.
 - Make sure that the edges of the handlebar attachment-handlebar clamp are clean without burrs or are preferably slightly bevelled or rounded.
 - Never exceed the maximum permissible tightening torque.
- ⚠ **WARNING** Risk of accident due to failure of handlebar attachment-handlebar clamp.
 - Thoroughly degrease the clamp area of the handlebar and the attachment.
 - Never apply grease to the clamp area.
 Carbon assembly paste is allowed to be used so as to reduce the required tightening torque.



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.). Regular care and maintenance ensures that your bicycle is always clean and well protected by lubricants and preservatives. Ask your specialist shop about appropriate lubricants and cleaning agents as well as information relating to their correct application.

NOTICE Never use a pressure washer or steam cleaner to clean your bicycle, as the seals of your bicycle components are unable to withstand the pressure. This results in corrosion and material damage. Even if you use a hose, be careful – never aim the hose directly at the bearing components. (fig. 6)

- ☞ Check your handlebar for damage whenever you clean it (dents, scratches, cracks, abrasion extending over a large area etc.).
- ☞ Periodically check all bolts to ensure that they are firmly seated; when doing so observe the respective tightening torques.
- ☞ Replace the handlebar tape regularly.
- ☞ Periodically check derailleur and brake cables for smoothness of operation.
- ☞ Periodically clean all drive elements of your bicycle (sprockets, chain rings, chains, rear and front derailleurs).
- ☞ Lightly lubricate the chain on your bicycle at regular intervals.

- ① Please contact our repair department before returning a defective Lightweight product to us!
If products are returned without our previous agreement, the shipping costs incurred will be charged to your account!
- ① When returning a defective Lightweight product please prepay the cost of postage. Any shipment that is not prepaid will be rejected and returned to the sender!
Please send us the defective handlebar without any accessories (such as stem, brake handles etc.), as we will not assume any liability for possible damage and loss of the aforementioned parts.
We expressly reserve the right to return handlebars in an unpaired state if this requirement is not complied with.
- ① Before returning parts from countries outside Germany, please contact the importer. The importer will handle communications with our repair department on your behalf.
To locate your importer, please go to:
www.lightweight.info >>> CONTACT >>> IMPORTERS

Liability

We provide a legal liability for all Lightweight products which covers material and processing defects. During this period all products accepted as being defective are replaced at no cost to the user.

The liability period starts at the time the Lightweight product was originally purchased.

Liability does not extend to any kind of damage caused by normal wear and tear, accidents, unauthorised modifications, negligence or improper handling and use.

Repair work or any other work conducted on the Lightweight product by unauthorised persons will also void your warranty.

This also applies to any indirect or direct damage resulting from an action as described in the preceding sentence.

- ① Only registered Lightweight products or products whose registration has been transferred to a new owner are entitled to our warranty and service rules! – see **Registration**, page 5!

Warranty

We guarantee the assured properties of the Lightweight handlebar for 5 years from the date of the invoice.

We will replace any Lightweight handlebar that does not conform to these properties during this period.

- ① After 5 years or 30,000 km (18,600 miles), send us your handlebar for inspection and we will advise whether you can continue to use it or whether you should replace it.

Service

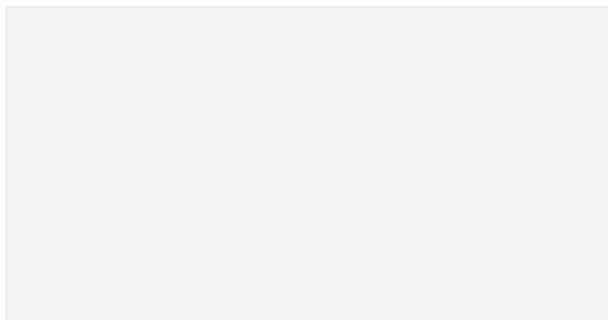
Crashreplacement

In the event of irreparable damage (e.g caused by an accident) we offer a 30% discount off the corresponding list price if you purchase a new Lightweight product as a replacement.

Claims must be forwarded directly to carbovation gmbh.

Upon claiming under this service, your irreparable Lightweight product automatically becomes our sole property without compensation.

Dealer

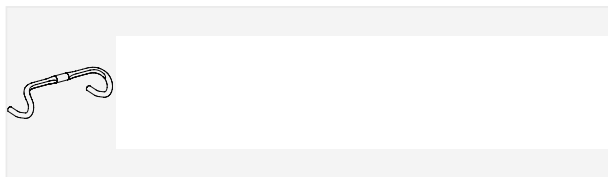


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Chip number



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