

**USER MANUAL
HANDLEBAR**

BERG

Copyright RideBerg

Disclaimer; The information found in this document is only intended for user purpose only, rideberg is not responsible for mis-interpretation of this information nor is it responsible for distribution of any text fragments or pictures used by others then rideberg.

Document name: User Manual

info@rideberg.com

Revision date: 20/02/2023

<https://www.rideberg.com>

INTRODUCTION	4
SYMBOLS USED	4
INTENDED USE	4
PROHIBITED USE	4
ISO TESTED	5
HANDLEBAR	6
INSTALLATION AND CUTTING	6
How to install the handlebar	6
How to cut the handlebar	7
HANDLEBAR TECHNICAL	10
Drawing	10
Specifications	10
WARRANTY	11

INTRODUCTION

SYMBOLS USED

The user manual uses the following symbols



CAUTION

Indicates a hazardous situation which, if the safety instructions are not followed, may lead to minor or moderate injury and/or damage to the product or the environment.



WARNING

Indicates a hazardous situation which, if the safety instructions are not followed, may lead to minor or serious injury or death and/or serious damage to the product or the environment.



DANGER

Indicates a hazardous situation which, if the safety instructions are not followed, will lead to serious injury or death.

INTENDED USE

The products are only to be used for mountain bike cross-country ASTM level 1, 2 and 3.

PROHIBITED USE

It is prohibited to use the product for any other purpose than those indicated in the manual, the safety indicates, or other safety documents related to this document.

ISO TESTED

Products are tested for a maximum total weight of 100kg for ASTM XC-MTB categories Level 1, 2 and 3.

LEVEL 1

This is a set of conditions for the operation of a bicycle on a regular paved surface where the tires are intended to maintain ground contact.

LEVEL 2

This is a set of conditions for the operation of a bicycle that includes Condition 1 as well as unpaved and gravel roads and trails with moderate grades. In this set of conditions, contact with irregular terrain and loss of tire contact with the ground may occur. Drops are intended to be limited to 15cm (6") or less.

LEVEL 3

This is a set of conditions for operation of a bicycle that includes Condition 1 and Condition 2 as well as rough trails, rough unpaved roads, and rough terrain and unimproved trails that require technical skills. Jumps and drops are intended to be less than 61cm (24").

LEVEL 4

This is a set of conditions for operation of a bicycle that includes Conditions 1, 2, and 3, or downhill grades on rough trails at speeds less than 40 km/h (25 mph), or both. Jumps are intended to be less than 122cm (48").

Test Programs at EFBE

Pedaling forces (ISO 4210-5:2014, 4.3/EN 15194:2017, 4.3.7.4/TTF1)

Vertical forces (ISO 4210-5:2014/ 4.5/ EN 15194:2017, 4.3.7.4/TTF2)

Horizontal forces (ISO 4210-5:2014/ 4.5/ EN 15194:2017, 4.3.7.4/TTF3)

Impact test falling mass (ISO 4210-5:2014/ 4.1/ EN 15194:2017, 4.3.7.2/TTF3)

Impact test falling frame (ISO 4210-5:2014/ 4.2/ EN 15194:2017, 4.3.7.3/TTF3)

Handlebar and stem assembly – Fatigue test – out-of-phase (ISO 4210-5:2014)

Handlebar and stem assembly – Fatigue test – in-phase (ISO 4210-5:2014)

Handlebar and stem assembly – Fatigue test – lateral bending test (ISO 4210-5:2014)

Wheel – rotational accuracy (ISO 4210-7:2014)

Wheel – wheel/tire assembly – static strength test (ISO 4210-7:2014)

The requirements for category MTB were met, **the test was passed.**

Facility

EFBE PRUFTECHNIK GmbH

Landasatz 25

45731 waltrop – Germany

Info@efbe.de

<http://www.efbe.de>

HANDLEBAR

INSTALLATION AND CUTTING

How to install the handlebar

Cutting a carbon fiber handlebar, requires many of the same steps as trimming an aluminum component, although there are a few important points that can make this job stress free and smooth. You should approach cutting carbon fiber with the utmost care - the more time you take to do it, the higher the chance of making a nice, clean cut that doesn't require much (*or any*) attention afterwards. It's for this reason that we recommend using a saw guide, regardless of if you are trimming a bar or steerer tube, because it ensures that the cut will be straight. A saw guide isn't a tool that most riders will use that often, but the price of having to replace a carbon fiber steerer/crown assembly outweighs the initial buy-in of the tool. If you can't justify buying the guide or make your own (*an old stem can be used*), you're much better off having your local shop do the job for you.



STEP 1

Gently rub carbon paste around the mid-section of the handlebar.



STEP 2

Mount the handlebar in the middle of stem and tighten the screws (hand-tight).



STEP 3

Tighten cross-section of the bolts. Do not exceed this parameter of 5Nm. Please be advised 3.5Nm should be sufficient to secure the handlebar. Smaller bolts can require less torque 1.5 to 2Nm





STEP 4

Remove any excessive carbon paste.

STEP 5

Place the grips/brakes/shifters in position, if there is too much friction, please use a non-aggressive lubricant (water-based).

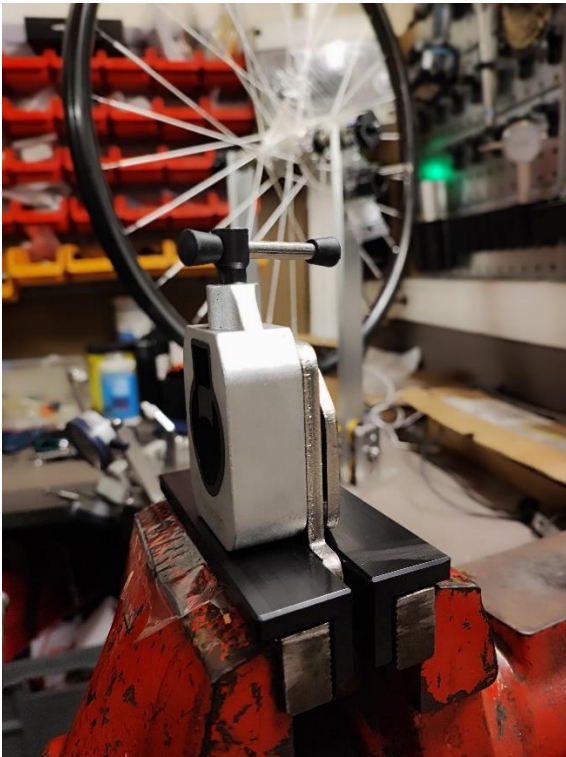
Tighten the grips to max 2.5Nm. 1.5Nm should be sufficient to secure the grips.



How to cut the handlebar

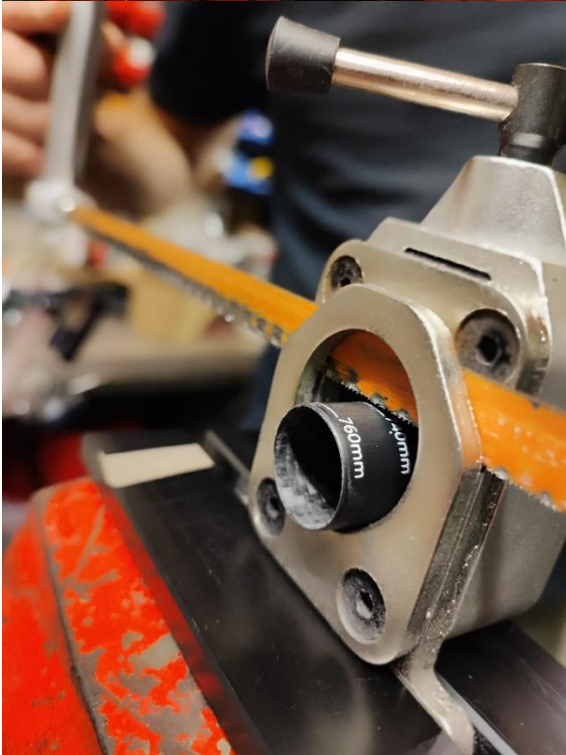
Some helpful pointers before you begin:

- A bit of water on the saw blade can help keep the dust down and the blade from clogging.
- Remember that a hacksaw will only cut in a forward direction. Applying hard pressure or trying to saw quickly will only make the job harder and your cut worse.
- Most hacksaws come equipped with a 24 TPI (*teeth per inch*) blade that will work for most jobs, including cutting a carbon fiber bar or steerer tube, but we highly recommend using a finer 32 TPI blade when sawing a carbon post or steerer. The finer blade will result in a cleaner cut that won't require as much attention after sawing.



STEP 1

Clamp your saw guide into the vice and slide the handlebar so that the cut line is aligned with the slot in the saw guide.



STEP 2

Test the positioning before sawing by sliding the saw into the guide, being careful not to actually touch the carbon tube, and look to be sure that the blade lines up right on the cut mark. Snug down the handlebar tube clamp once you're positive that the handlebar is position correctly.



STEP 3

Now it is time to start cutting. Begin by applying light pressure in a controlled manor, trying to cut through the tube quickly will only result in an ugly cut. Remember that a hacksaw blade will only cut when pushing in a forward direction, and to use the entire length of the blade – think “proper form before speed”. A few drops of water on the blade can keep the dust down and make the job easier.



STEP 4

There is a good chance that you won't be required to clean the edges up if you've done the job correctly, but you may need to smooth out the edges. If so, use some sanding paper or a fine file and use it in an upward motion to remove the burrs.

Source - Tech Tuesday – Cutting carbon pinkbike article

HANDLEBAR TECHNICAL

Drawing



Specifications

CLAMP DIA.: 31.8mm

MATERIAL: T800/T1000/MR45

BACK SWEEP: 9deg.

RISE: 0mm

LENGTH: 760mm/680mm

MAXIMUM RIDER WEIGHT: 100kg

HANDLEBAR WEIGHT: 105gram

SPECIFIC WEIGHT:

760mm - 105gram

* we advise to use 760mm because of the unique design

* cut lines go to 720mm but you can go lower to 680mm if required.

* Please state specific on order inquiry that we need to cut the handlebar or if you will do it.

WARRANTY

See warranty at

<https://www.rideberg.com/technical>