

**PORTE<sup>®</sup>**



# **USER MANUAL**

## **HANDLEBAR**

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Classification: Confidential

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# TABLE OF CONTENTS

<b>INTRODUCTION.....</b>	<b>- 4 -</b>
SYMBOLS USED.....	- 4 -
INTENDED USE .....	- 4 -
PROHIBITED USE .....	- 4 -
ISO TESTED .....	- 5 -
<b>HANDLEBAR .....</b>	<b>- 6 -</b>
HOW TO INSTALL THE HANDLEBAR .....	- 6 -
HOW TO CUT THE HANDLEBAR .....	- 7 -
HANDLEBAR TECHNICAL.....	- 10 -
DRAWING.....	- 10 -
SPECIFICATIONS.....	- 10 -
<b>WARRANTY .....</b>	<b>- 11 -</b>

# 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

RIDEPORTE products are tested and approved by EFBE PRÜFTECHNIK GmbH for a maximum total weight of 100kg (unless stated otherwise) for ASTM XC-MTB categories Level 1, 2 and 3.

### ASTM 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.

### ASTM LEVEL 2

This is a set of conditions for the operation of a bicycle that includes Level 1 conditions 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.

### ASTM LEVEL 3

This is a set of conditions for operation of a bicycle that includes Level 1 and 2 conditions 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").

### ASTM LEVEL 4

This is a set of conditions for operation of a bicycle that includes Level 1, 2, and 3 conditions and 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"). RIDEPORTE products are NOT tested and approved for this level.

## TEST PROGRAMS AT EFBE

- Frame – Pedaling forces (ISO 4210-5:2014/4.3/EN 15194:2017, 4.3.7.4/TTF1)
- Frame – Vertical forces (ISO 4210-5:2014/4.5/ EN 15194:2017, 4.3.7.4/TTF2)
- Frame – Horizontal forces (ISO 4210-5:2014/4.5/ EN 15194:2017, 4.3.7.4/TTF3)
- Frame – Impact test falling mass (ISO 4210-5:2014/4.1/ EN 15194:2017, 4.3.7.2/TTF3)
- **Handlebar/stem – Static test forward (ISO 4210-5:2023/4.4)**
- **Handlebar/stem – Static test lateral (ISO 4210-5:2023/4.3)**
- **Handlebar/stem – Fatigue test (ISO 4210-5:2023/4.9)**
- **Handlebar/stem – Steerer torsional security (ISO 4210-5:2023/4.6)-5:2014)**
- Wheel – Rotational accuracy (ISO 4210-7:2014)
- Wheel – Static strength test wheel/tire assembly (ISO 4210-7:2014)
- Seat post – Fatigue test (ISO 4210-09:2014/4.5.2)
- Seat post – Static test (ISO 4210-09:2014/4.5.3)

# HANDLEBAR

## HOW TO INSTALL THE HANDLEBAR

### STEP 1

Gently rub carbon paste around the midsection of the handlebar.



### STEP 2

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



### STEP 3



Tighten the cross-section of the bolts. Do not exceed 5 Nm. Please be advised 3,5 Nm should be sufficient to secure the handlebar. Smaller bolts can require less torque e.g. 1,5 to 2 Nm.



### 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 2,5 Nm. Normally 1,5 Nm should be sufficient to secure the grips

## HOW TO CUT 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.

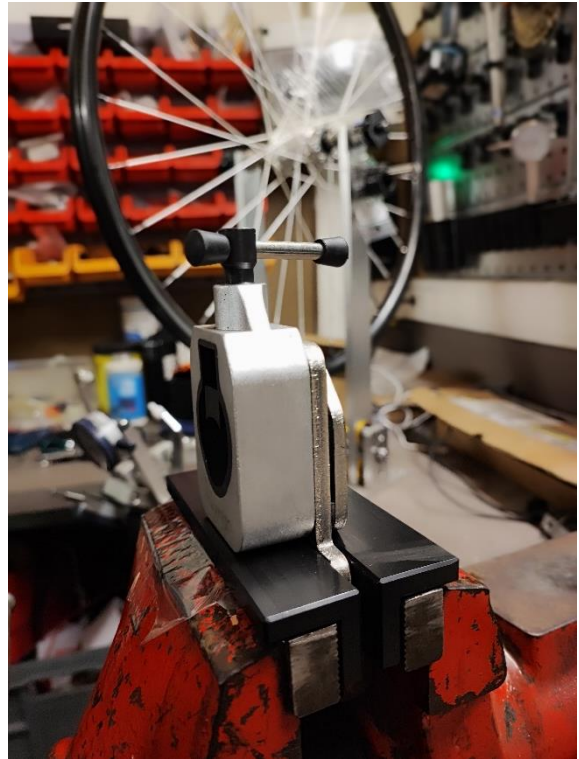
It's for this reason that **we recommend using a saw guide**, regardless of if you are trimming a bar or steerer tube, because it ensures that the cut will be straight. A saw guide isn't a tool that most riders will use that often, but the price of having to replace a carbon fiber steerer/crown assembly 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.

### 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 or a specific carbon cutting blade when sawing a carbon post or steerer. The finer blade will result in a cleaner cut.

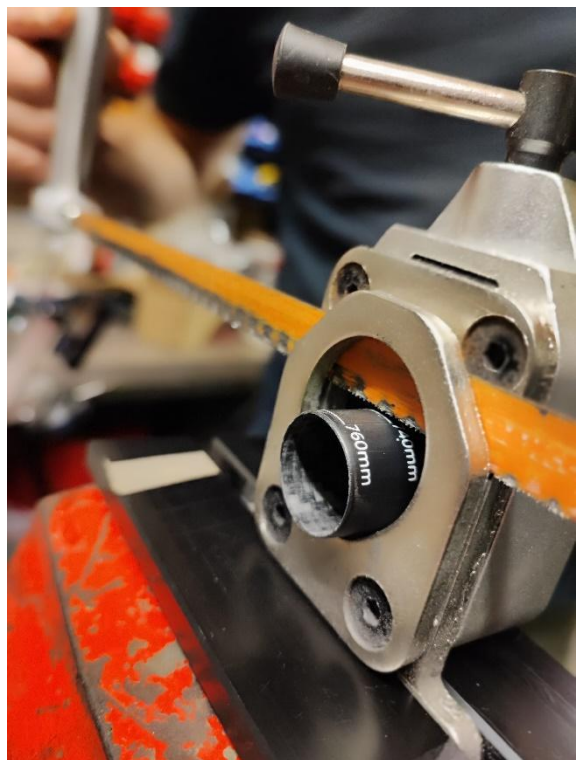
### **STEP 1**

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 positioned correctly.





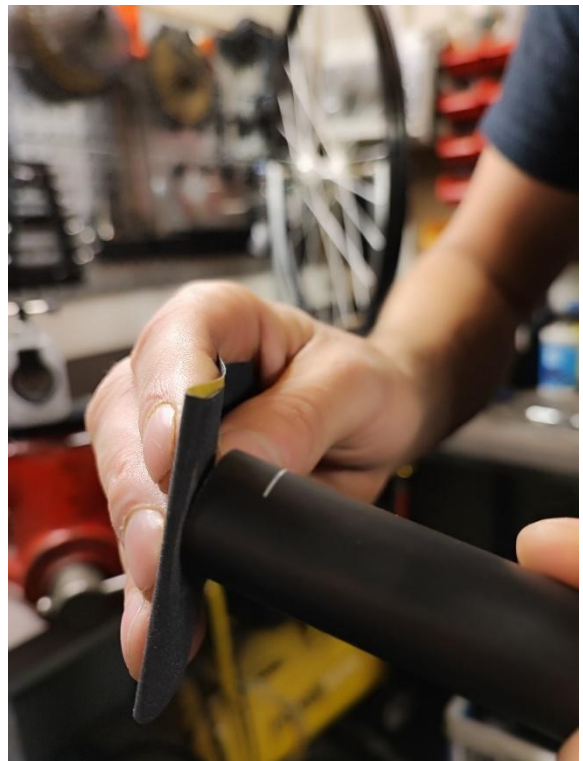
### **STEP 3**

Now it is time to start cutting. Begin by applying light pressure in a controlled manner. Remember, trying to cut through the tube quickly will only result in an ugly cut. Also don't forget 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.



# HANDLEBAR TECHNICAL

## DRAWING



## SPECIFICATIONS

- Clamp diameter: 31,8 mm
- Material: T800/T1000/MR45 carbon
- Back Sweep: 9°
- Rise: 0 mm
- Width: 760 mm (680 mm min.)
- Weight: 105 gram for 760mm
- Maximum rider weight: 100 kg

We advise to use the handlebar with a width within the range of 720-760 mm because of the unique design. The cut lines go to 720mm but you can safely go lower to 680 mm if required. Please state specific on order inquiry that we need to cut the handlebar or if you will do it.

# WARRANTY

See warranty document at:

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