

**Assembly Manual  
-Handlebar Carbon-  
05/20/35**

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# Foreword

Dear Customer,

be sure to read this assembly manual carefully, keep it safely and follow all of the steps it describes.

If you have any further questions or have not quite understood certain points, you should contact a specialist bicycle mechanic for your own safety.

Carefully read this guide in its entirety before your first ride and keep it close to your bicycle so that it is always available. If you lend your bicycle to a third party, please give them this manual along with the bicycle.

## Safety Instructions

This operating manual contains four different types of pointers

One providing important information about your new bicycle component and how to use it, a second referring to possible damage to property and the environment, and a third type warning against potential falls and serious damage, including physical injury. The fourth pointer helps you to apply the proper torque so the parts don't loosen or break.

When you see these symbols, there is always a risk that the described danger may occur.

The text which the warning covers always has a grey background.

The warnings break down as follows:



### **Note**

This symbol provides information about how to use the product or highlights specific parts of the operating instructions that are particularly important.



### **Attention**

This symbol warns of misuse which could result in damaging the product or the environment.



### **Danger**

This symbol indicates possible dangers to your health and life that could arise if specifications or appropriate care is not taken.



### **Important bolted connection**

Precise torque must be applied here when tightening. To find out the correct tightening torque, you can either look on the bike part itself or in the tension values which are found in this manual. In order to apply a precise torque, you must use a torque wrench. If you don't have a torque wrench, contact an expert. Parts which do not have the correct torque could fall off or break! This may result in severe falls and injuries.

# Intended Use



## Dangers of improper use

Only use your bicycle component for its intended use. This also includes adherence to the operating, servicing and maintenance conditions that are described in this manual. Inform other users of the intended use and the dangers of not adhering to it. Improper use, overloading and lack of maintenance may lead to accidents and falls involving severe injuries to you and other people!



The Handlebar Carbon 05/20/35 is designed to be used with 77designz 1 Piece Stems only.



Permitted total weight:  
**120 kg** (Rider's weight + Bicycle weight + Baggage weight)

The Handlebar Carbon 05/20/35 is categorised as a category 5 component.

If your bicycle is equipped in line with national law, the following is permitted:

- Bicycle parts of **category 5** -inspired by ASTM F2043-13 / category 5- can be used on public roads and off-road.
- **Category 5** is a set of conditions for operation of a bicycle that includes extreme jumping or downhill grades on rough trails at speeds in excess of 40 km/h (25 mph); or a combination thereof.
- Appropriate protective equipment (full-face helmet, full-finger gloves, protectors) should be worn.
- Manufacturers and dealers are not liable for damage resulting from use outside of intended use. This applies particularly to damage resulting from non-adherence to the safety instructions, e.g., in terms of carrying excess weight and / or making improper repairs to defects.

# How to use carbon components



If you have carbon parts, these should not be applied with grease or oil.



Please use special assembly paste for carbon parts.

Carbon is a material which requires special handling and care during construction, servicing, riding, transport and storage.

## Properties of carbon fibre



Carbon parts cannot be bent, dented or misshapen after an accident/fall. If this is the case, it is most likely that the fibres have been destroyed or have broken off, e.g. within the part, which is not visible from the outside!

Therefore, it is vital to regularly check carbon frames and other carbon components very carefully, especially after a fall or an accident.

- Look for splinters, tears, deep scratches, holes or other changes in the carbon surface.
- Check if the parts have got softer or less stiff than usual.
- Check if individual layers (paint, finish or fibres) come off.
- Listen for any cracking or other unusual sounds.

If you are not completely sure that your bicycle component is in perfect condition, do not use it. First allow a specialist retailer to check the affected carbon parts!



Some carbon components require lower torques than metal parts. Excessive torques can lead to hidden damage, which is possibly not visible from the outside. Frames or components can break or warp to such an extent that you could fall. Therefore always adhere to the instructions supplied by the manufacturer or ask for advice from a specialist. Use a torque spanner to ensure that you get the required torque. Carbon parts may not be applied with grease or oil. Special assembly paste is available for assembling and safely securing carbon components with a low mounting torque. Never expose carbon parts to high temperatures! Even in the cars, the sun's rays can generate such a heat that it can put the safety of carbon parts at risk.

## Legal regulations



Before riding your bicycle on public roads or private property, you should inform yourself about the applicable national regulations in your specific country. This section provides information on how the bicycle has to be equipped to be permitted to participate in public road traffic or on private property.

# Assembly

Remove the protective packaging material and the warning sticker.



Dispose of the packaging material properly and according to regulations at an appropriate disposal site.



1. Wear suitable protective clothing, protective gloves and protective goggles during all installation and maintenance work.



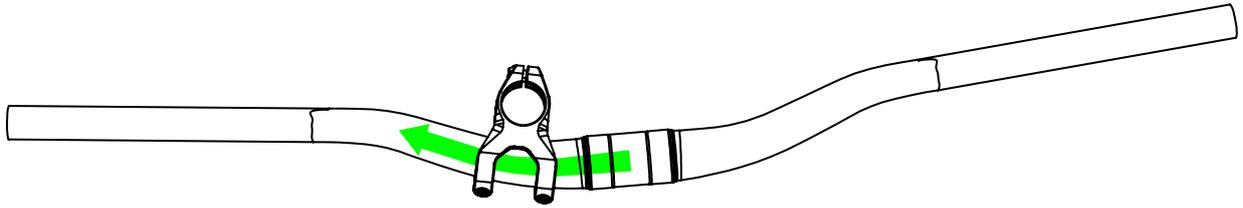
2. Be sure to check that all bolted connections and fasteners are securely fixed after assembly and adjustment.

**NEVER RIDE WITH A LOOSE STEM OR HANDLEBAR!**

In case of a crash inspect your stem and handlebar. Please contact us if you have any doubt that the stem or handlebar is in good condition. Do not ride your bike with broken or defective components!

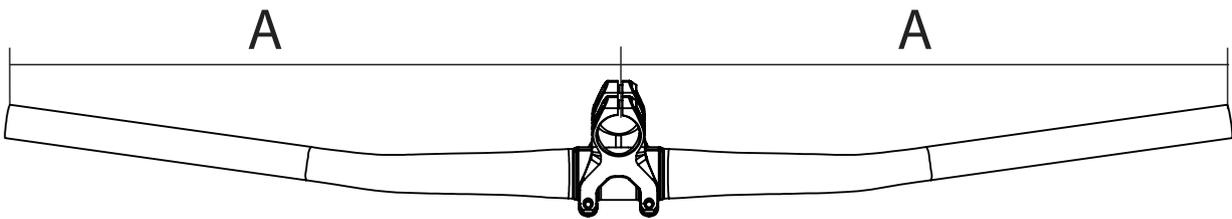
3. Clamping areas must be clean and free of grease.

1. Carefully install the handlebar into the 1 Piece Stem as shown in the Assembly Instruction of the 1 Piece Stem. Make sure not to scratch the carbon fiber surface.

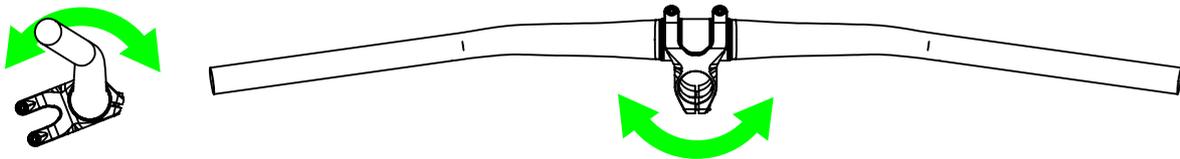


2. Center the handlebar in the stem (A) A=A, angle and align it with your front wheel (B).

A:

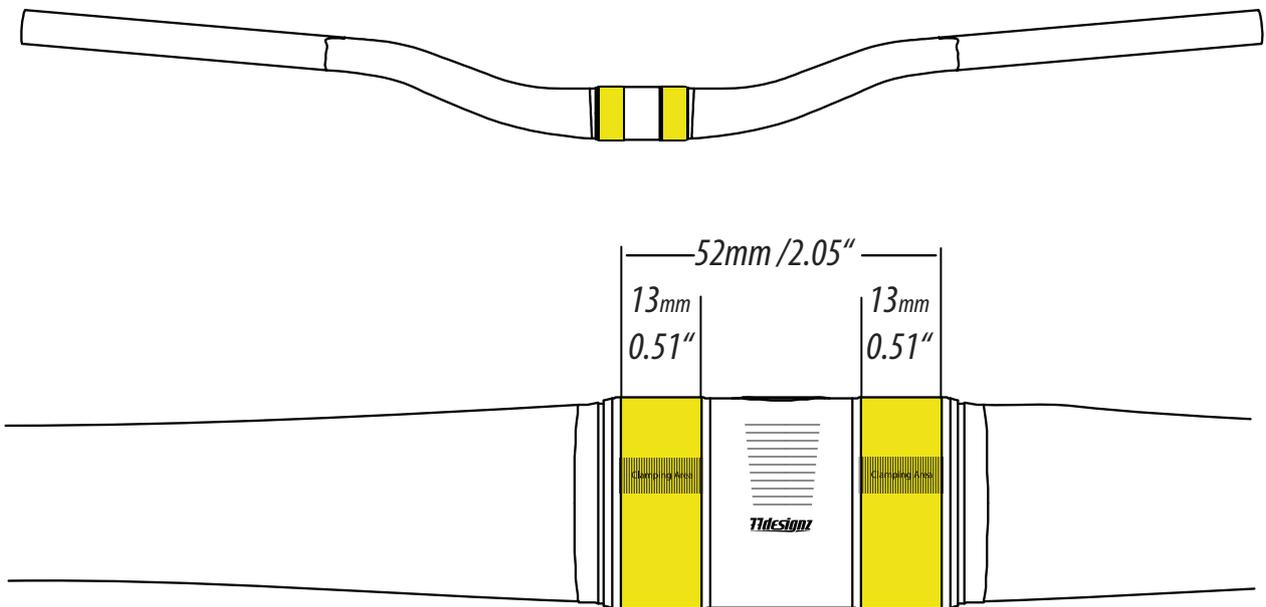


B:



3. Tighten handlebar clamping bolts with **5-6 Nm / 3.7-4.5 ft-lbf.**

*Clamping ZONE Yellow: **5-6 Nm / 3.7 – 4.5 ft-lbf***

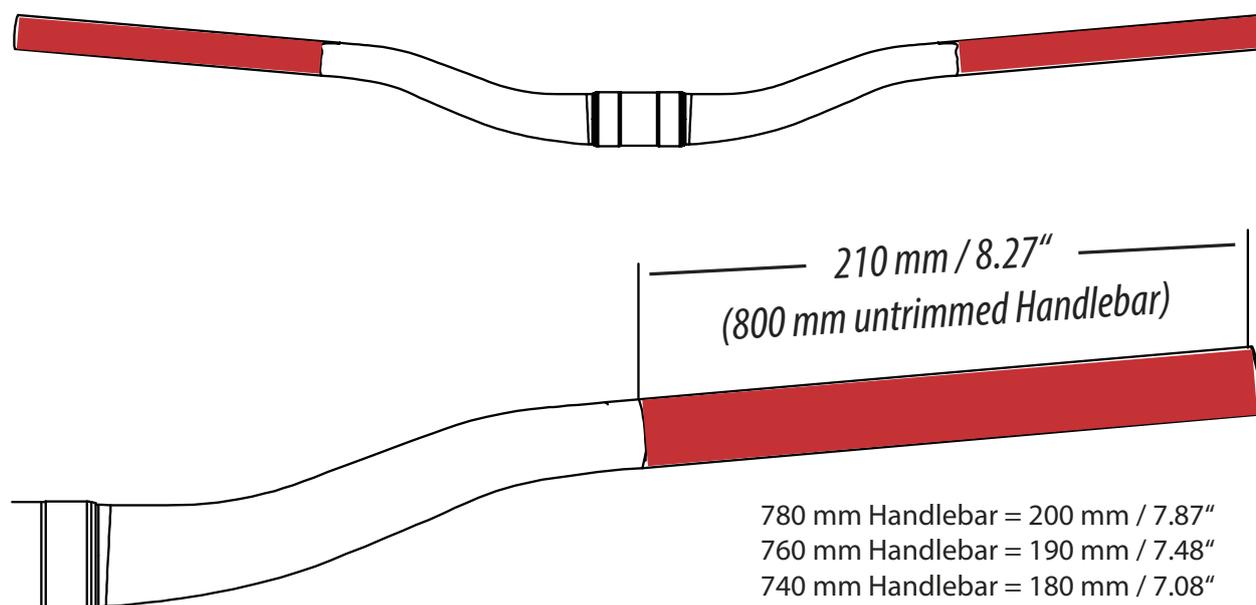


Tighten handlebar clamping bolts with **5-6 Nm / 3.7-4.5 ft-lbf.**

## Assembly of levers and grips

Clean the clamping areas with isopropyl alcohol. Add brake lever, triggers and grips and tighten with a max torque of **2 Nm/ 1,5 ft-rbf**. If there are other torques displayed on the components, the lower one is valid. Always use carbon friction paste when assembling components to the handlebar.

*Clamping ZONE Red: 2Nm / 1,5 ft-lbf*



Brake lever, triggers and grips and tighten with a max torque of **2 Nm/ 1,5 ft-lbf**.



Do not use bar ends.  
Use carbon friction paste and fix the components with reduced tightening torque.



### **Trimming the Handlebar**

If you need to shorten the bars use only a fine metal saw and a proper clamping device that can not hurt the structure of the carbon. You can trim the bar down to a width of 740 mm/29.14" without effecting guarantee and warranty. Be aware that you shorten the clamping zone by trimming the handlebar.

### **Asymmetric clamping and segment-clamping devices**

Some bike components can be destructive when used on carbon fiber handlebars. Be very careful when assembling parts with asymmetric clamping devices.

Bike components that use segment-clamping are also unsuitable as they do not spread the pressure evenly.

## **Maintenance**



Do not use chemical cleaner.

Regularly inspect the stem for all kind of damages. If you find any damage or change in the appearance of the stem, do not ride with it anymore. First ask a specialist bicycle mechanic or 77designz for assistance.

# Legal disclosure

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Legal inspection by a lawyer office specialised in product liability and technical law.

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