



Installation instructions

Speedometer mount on stem



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1. General information

The assembly instructions must be read and understood by the user and installer before assembly and use.

If you have any further questions after reading through or during assembly, please contact us by e-mail (info@Lambda-Tuning.de).

Caution

- Loosened, incorrect or overtightened screws can damage the handlebars or brackets.
- Incorrect installation can lead to a broken handlebar and/or a fall.
- The maximum permissible bolt torque on the handlebar depends on the stem.
- Follow the instructions for use and instructions for using your torque wrench. Mistakes can quickly be made here. The adjustment range of the torque wrench must not be greater than 25 Nm, otherwise it will be too coarse and inaccurate.
- The speedometer mounts are only for use on standard road or gravel road bikes.
- ASTM Classification: Category 2
 - Riding on smooth, paved surfaces; permanent contact with the ground. (racing bikes, time trial bikes). In addition, unpaved, gravel paths; short-term loss of contact with the ground is permitted. Jumps up to approx. 15 cm. (gravel bikes, cyclocross).

- Always tighten the screws on the stem alternately in 1 Nm increments.
- Note the same distance (gap) when clamping the screws. There are also stems that do not have a gap in the upper screws (see the picture).
- The maximum permissible weight of the bike computer is 180g.
- The maximum permissible weight of the accessory on the GoPro adapter made of aluminum is 200g and for the plastic one the carbon mount is 150g.



2. Introduction

Mounting a bike computer mount on the lower bolts of the stem cover plate is one of the most elegant solutions for a clean cockpit. Your bike computer sits centrally and aerodynamically perfectly in the field of vision.

However, since these screws hold your handlebar stem together, precision is required here.

What you'll need

- **Bracket** (incl. the longer screws and spacers)
- **Allen key** (usually 4 mm)
- **Spirit level** or mobile phone with spirit level app
- **Tape measure** or folding rule
- **Torque wrench** (range 2–15 Nm). Strongly recommended, as the stem screws are safety-relevant.
- **Mounting paste** (for carbon handlebars)
- **Threadlocker** for the screws of the plastic adapter
- **Cleaning spirit for** cleaning and degreasing the clamping surfaces.

Before you start:

Check that the included M5 screws of the bracket have the same thread as your original stem screws and that the width of the threaded holes fits.

Measure the angle of the handlebars with the spirit level or a spirit level app on your mobile phone. When loosening

the front screws on the stem, the handlebars will usually twist (tilt downwards forward).

3. Step-by-step instructions

3.1. Preparation

Set up your road bike securely (ideally in a work stand). Align the handlebars straight.

3.2. Loosen the lower screws

Carefully loosen the **two lower screws** of the stem clamp alternately.

Important: If you loosen all four screws, the handlebars will slip away. If you only remove the bottom two, the clamp often keeps the handlebars stable enough due to the upper screws.

3.3. Clean the handlebar clamp

I recommend that you take the opportunity to clean the handlebar clamp and mount it with fresh carbon paste on carbon handlebars. Carbon paste contains tiny particles (grit) that artificially increase friction. To do this, unscrew the complete clamping plate with the four screws.

In the case of metal joints (aluminum/aluminum or aluminum/steel), the main problem is not slipping, but seizure (cold welding) due to corrosion. Use normal mounting grease or anti-seize here. This protects against moisture, prevents creaking noises and ensures that you can easily loosen the screws and handlebars even after years.

3.4. Dry Runs & Spacers

Attach the bracket to the stem with the black **spacer sleeves** . These go between the stem clamp plate and the bracket so that the bracket has enough space.

For the GARMIN 1050 and Wahoo Elemnt ACE, the long spacers and screws are required. These are only included with the carbon bike computer mount.

3.5. Mounting the bracket

1. Run the new, longer screws through the bracket and spacer sleeves.
2. Important: With the carbon mount, the washers must be used for contact with the carbon on both sides. Take a close look at the pictures on page 8.
3. Insert the screws into the threads on the stem by hand.
4. First, tighten it only enough so that the holder is still slightly movable.

3.6. Alignment and tightening

Align the mount in the center.

Now comes the important part: **the torque.**

- Look at your stem (there is usually a value like **5 Nm** or **6 Nm**).
- Tighten the screws alternately and evenly until the target torque is reached.
- Also check the top two screws of the stem.

3.7. Fitting the right adapter

The plastic mounts have a **G** or **GM** for Garmin, a **W** or **Wh** for Wahoo and **B** for Bryton printed.

The cutouts on the adapter are **up and down** on Garmin **and** Bryton and left and right **on** Wahoo. Make sure you have the right adapter, and it's mounted in the right direction.



The carbon mount has the adapters for the three bike computers. You have to mount the right one.

The small screws absolutely need the safety varnish.

3.8. Using a bike computer

Attach your bike computer to the holder by turning it 90°.

Important

Make sure that the bike computer sits flat on the adapter before you start turning it. Otherwise, the retaining lugs or the plastic adapter can be damaged.

If you have owned your bike computer for a long time or use it frequently, the retaining lugs may already be worn

out. This results in a loose and even wobbly fit. An incorrect use (Wahoo instead of Garmin) can also contribute to the wobble of the speedometer.

Stick one or two small strips of electrical tape or a thin piece of tape or handlebar tape right in the middle of the adapter. This increases the downforce when screwing in and eliminates play immediately.

If the noses on the bike computer are too worn, there are small metal repair plates from companies like "Dog Ears" that you screw/glue over the broken noses. This is usually cheaper than a new case or a new device.

Caution Always use the **safety cord** that protects your bike computer from falling off on the handlebars.



4. Aluminium bracket

Here you can see the complete set of the aluminum mount.



With the aluminum bracket, the two washers are placed under the screw head.



The aluminum mount can be used with and without the Go-Pro adapter.

With the Garmin Inlay, the two small nuts have to be mounted instead of the GoPro mount (see the following picture on the right).



Important

In any case, use **threadlocker paint** for these small screws. You don't want your bike computer to loosen or loosen with the adapter.

On the Garmin Inlay, the screws are in the direction of travel and on the Wahoo Inlay transversely to the direction of travel. Here the small screws are screwed into the thread of the aluminum bracket.

You can mount a lamp on the GoPro adapter, for example. Here is the Cat Eye GVolt70.1 front light.

5. Carbon mount

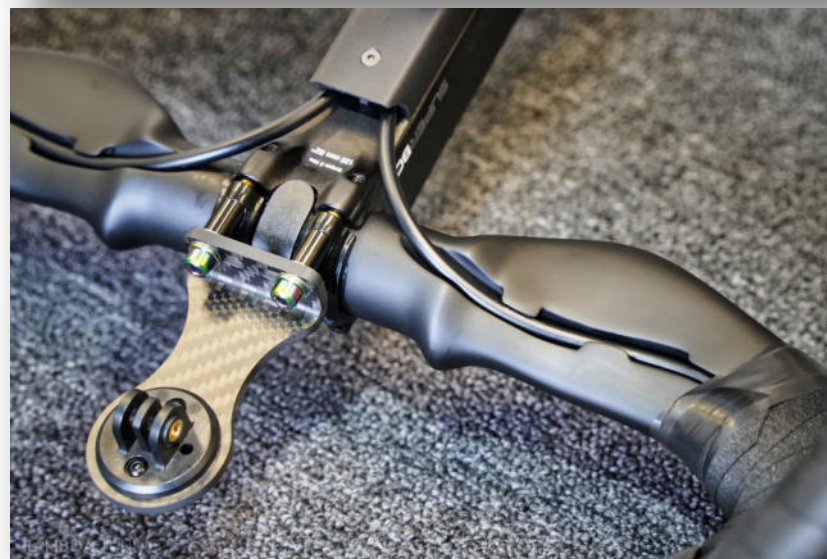
There are more options for mounting the carbon mount. Here is the Garmin, Wahoo and Bryton inlay and also the long screws and sleeves for the new GARMIN 1050 and Wahoo Elemnt ACE bike computers. In addition, the GoPro adapter and a matching holder for a round flashlight or the upside-down Garmin mount.

Here you can see the complete set



Important

With the carbon mount, the washers must be used on both sides when in contact with the carbon.





Here, too, the mount can be used with or without the Go-Pro adapter.

Without the GoPro adapter, the wide and shorter screws with the washers have to be used.

With the GoPro adapter, the slightly longer screws without washers.



Here is the variant with a flashlight.

Note that the setup is not StVO compliant and is not approved for road use. Our recommendation is the Cat Eye GVolt70.1 front light.



6. Safety instructions

Caution

Loose handlebars while driving is life-threatening. If you don't have a torque wrench, have the assembly checked briefly at your trusted bike shop – this takes two minutes and usually only costs a contribution to the coffee fund.

Important

After **50 km** or better after the first ride at the latest, the tightening torque of the screws must be checked. Check the tightening torque and assembly condition every additional 30 driving hours or 1000 km and at least once a year.

The sleeves, bracket and washers are still settling, and the holding force is reduced. This allows the handlebars to twist downwards when driving over an edge.

7. Warranty

We grant the statutory material defect liability (warranty) on material and workmanship on all products.

The liability period of two years begins with the first purchase of the corresponding product. Warranty claims can only be asserted with proof of purchase and only by the consumer.

There is no entitlement to warranty in the following cases:

- Normal wear and tear or wear from use
- Improper assembly, too high or too low clamping forces and modification
- Use of unsuitable attachments or screws
- Improper use, overload (mounting a camera or mobile phone) or e.g. jumps

- Rental, commercial use or commercial use
- Damage caused by accidents or external influences (e.g. falling, falling over, etc.)
- Commercially permissible or technically unavoidable fluctuations in texture and appearance

Cycling races are not an exclusion of warranty.

We are not liable for indirect or consequential damages.

The place of jurisdiction and performance is Siegburg (Germany). German law applies.

We reserve the right to make changes in technical details, text and images.

8. Crash Replacement

In the event of irreparable damage to functionality (e.g. due to an accident or fall), we grant the first buyer a discount of **50% on the current sales price within two years of purchase.**

Shipping is at your own expense.

We hope you enjoy the computer mount.

If you want to have a recommendation for a bike computer, then look at the Karoo from the company Hammerhead. For us, this is the only bike computer made by cyclists for cyclists.

On our website you can find a [blog](#) with information about the device.

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