Deda Zero100 Handlebars And Stems User Manual

Contents

Deda Zero100 Handlebars And Stems

Handlebars and stem

- **Congratulations**
  - Congratulations for your new Deda Elementi product. Please read these instructions carefully and follow them for correct use. An improper installation or wrong application of the instructions could damage the product, that will be no more covered under warranty, damage the bicycle or cause an accident resulting in injury or death. Since specific tools and experience are necessary for proper installation, it is recommended that the product be installed by an official Deda Elementi dealer or a qualified bicycle technician.

General safety informations

- Deda Elementi recommend components be only installed and adjusted by qualified mechanics at your local Deda Elementi dealer.
- Our staff is trained, constantly updated, and familiar with the peculiarities of the Deda Elementi products, their recommended fittings and performance limitations.
- Use only a torque wrench to tighten the bolts and carefully follow the recommended tightening torques in this manual! Remember that the torque value printed on the components indicate the maximum recommended torque! Please never exceed the indicated torque value!
- Deda Elementi components are designed to operate properly within a tightening range of 4 to 5 Nm. If these values must be exceeded in order to avoid relative rotation of the fork steerer, stem, and handlebar, carefully check that surfaces are absolutely free of grease or other lubricants.
- Grease will drastically reduce the friction between the surfaces, forcing dangerous overtightening of the bolts. If the problem persists please contact your Deda Elementi reseller or headquarters.
- When tightening the bolts without using a torque wrench, you will systematically tend to underestimate the tightening torque. You will therefore overtighten the bolts. It is important to remember that overtightened bolts will not lead to a greater security of the assembly, but on the contrary will put excessive stress on the components, drastically reducing their fatigue life, causing breaking or cracking conditions that can have serious consequences on your life.
- If you are in an emergency and cannot use a torque wrench, make sure the bolts are tight enough just to prevent relative rotation of the components, and please contact your Deda Elementi reseller immediately for a torque measurement.

Before any ride, follow this simple checklist, which allows you to prevent most possible problems:

1. Make sure that the fork steerer rotates properly, it is adjusted to the proper and usual headset play, and the stem does not rotate on the fork steerer.
2. Make sure the handlebar does not rotate in the stem's handlebar clamp.
3. Check the faceplate clamping bolts. Make sure they are all in place and undamaged, and the faceplate has no cracks or abrasions.
4. Check the fork steerer clamping bolts. Make sure they are all in place and undamaged, and the seats show no signs of cracking or abrasions.

Do not use the bicycle if handlebar, stem, or seatpost exhibit creaking noises or if you notice damage such as cuts, cracks, bulges, dents, discolorations, etc. Please have your authrized

- Deda Elementi dealer carefully inspect these damages and if necessary, replace the components.
- Please refer regularly to **www.dedaelementi.com** to receive information about any additional recommendations, updating campaigns, or recalls of defective products.

Limits of use and compatibility test

The Deda Elementi components are designed and tested according to the specific conditions of use to the various genres of cycling, as classified on the Deda Elementi catalogue available at **www.dedaelementi.com**. Please follow strictly the following indications:

- Please choose and use the Deda Elementi components according to the intended use.
- Do not use any road components (ROAD series) for all-terrain use.
- Do not use the Deda Elementi components for Freeride, Dual slalom, Downhill, or generally for all applications that are outside the scope of testing provided by UNI EN ISO 4210 standards.
- Before purchase and installation, please make sure the components are compatible: A) Stem steerer clamp diameter/steerer diameter (Max allowed tolerance 0.20 mm.) B) Faceplate diameter/handlebar diameter (Max allowed tolerance 0.20 mm.)
- The Deda Elementi handlebar stems are designed to be fitted solely with Deda Elementi handlebars.
- The Deda Elementi handlebars are designed to be fitted solely with Deda Elementi stems.
- Deda Elementi handlebars and handlebar stems are designed to carry at maximum a fully equipped rider's weight of 242 lbs. (110 kg)

Information on periodic checks

- After the components' first fitting and break-in (generally after the first 100-250 km), use a torque wrench to check the correct tightening of all the bolts. If needed, loose the bolts and re-tighten to the correct torque.
- Bolts that are too tight or too loose can cause serious accidents that can lead to serious injuries or death.
- Deda Elementi components are designed to operate properly within a tightening range of 4 to 5 Nm. If you must exceed these values in order to avoid relative rotation of fork steerer, stem and handlebar, please contact your Deda Elementi reseller or headquarter. Please repeat this check at least every 1500 km.
- All bicycle components are subject to wear and properties and performance deterioration, based on your bicycle care and maintenance and on the environmental conditions to which the bike is exposed, e.g. rain, mud,

dust and sand.

- Metal parts are particularly sensitive to atmospheric corrosion, while parts made of composite material are especially sensitive to the direct exposure to sunlight, extreme temperatures, and impact.
- Every two years, or every year in the case of intensive use, please have a qualified Deda Elementi mechanic remove the handlebar, stem and fork steerer to inspect them for integrity.
- No component should exhibit cracks, cuts, or abrasions. If in doubt, do not hesitate to contact Deda Elementi.
- Accidents, impacts or drops can produce cracking or delamination in composite components which may not be readily visible, and give rise to sudden failures over time. These can cause serious accidents that can lead to serious injuries or death. Composite components can not be repaired. Therefore, in the event of accident, impact or drop, discard and replace the affected composite component.
- Accidents, impacts, or drops can produce microcracks in metal components which may grow into fatigue cracks not readily visible, and give rise to sudden failures over time.
- These can cause serious accidents that can lead to serious injuries or death. Deda Elementi metal handlebars, stems, and faceplates are made of hard aluminum alloy. If bent as a result of impact or drop, they cannot be straightened. They MUST be replace

General notes on installation

- The installation of the Deda Elementi components should be performed only by a qualified Deda Elementi mechanic. He has the expertise and the equipment required to safely assemble the Deda Elementi products for you and the environment. Each of th following indications must be carefully observed. Failure to comply with instructions may cause component failure and result in serious accidents that can lead to serious personal injuries or death and will void the warranty.
- We recommend you always use Deda Elementi handlebar and stem together because they are designed and manufactured for the best performance and reliability.
- If you intend to use a third party component together with a Deda Elementi product, please carefully read the manufacturer’s instructions for use and make sure it fits well and can be used safely with Deda Elementi components.
- In the event of discrepancy between the manuals, always use the lower recommended torque.
- Deda Elementi components are designed to operate properly within a tightening range of 4 to 5 Nm. If you must exceed these values in order to avoid relative rotation of fork steerer, stem and handlebar, this means the assembled components are not compatible, or that grease and dirt have deteriorated the friction properties of surfaces.
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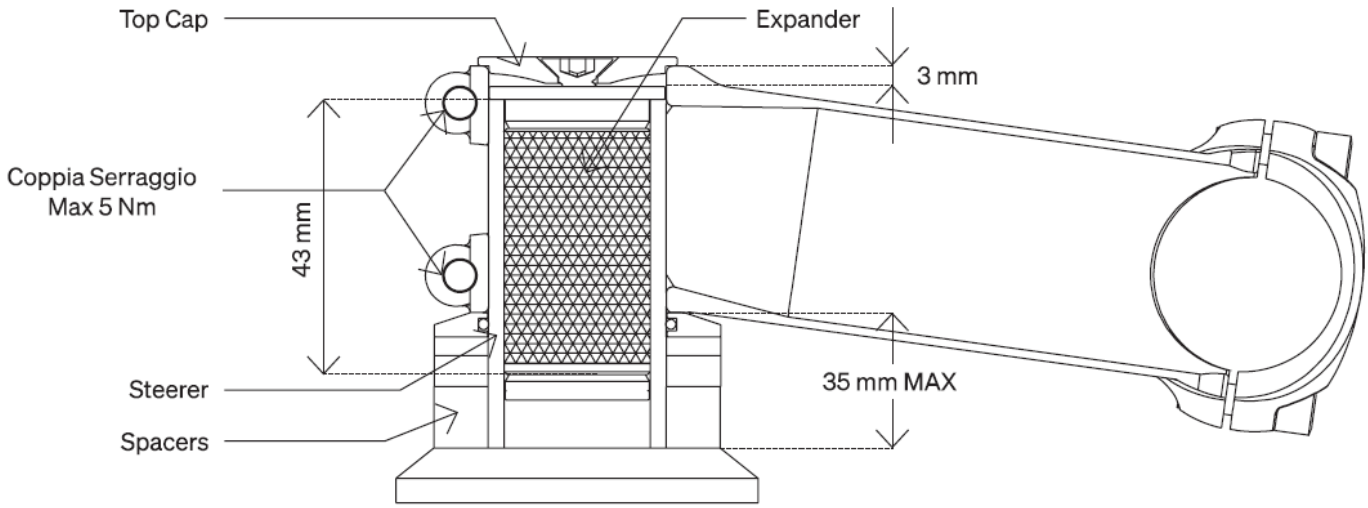
- Deda Elementi assumes no responsibility for problems from using a Deda Elementi component with a component from another manufacturer, and cannot guarantee that fatigue life and regulatory compliance properties of the complete Deda Elementi assemblies will be retained.

Fitting the handlebar stem on the fork steerer



- The drawing above shows the correct fitting of the handlebar stem on the fork steerer. Cutting the fork steerer to size is a delicate operation and can release harmful particles, irreparably damaging the fork itself if done without the proper equipment.
- For the first fitting of a Deda Elementi handlebar stem, which involves the cutting to size of the fork steerer, please contact your authorized dealer Deda Elementi. If you are instead replacing a stem, make sure that the diameter of the handlebar stem fits the fork steerer. Make sure that the replacement stem’s stack height is not greater than the original stem stack height.
- Carefully inspect the existing fork steerer for strictures, notches, and, if made of composite . fiber teaser. other damages. If there is visible damage please immediately contact a specialized mechanic.
- Transverse cuts on the fork steerer at the edge of the handlebar stem, expander or bearing are very dangerous fracture initiators. Please replace fork immediately!
- Make sure that the expander (not included) has enough length to ensure the handlebar stem rear bolts seat on the expander portion of the fork steerer. This will reduce the risk of fork steerer notching while tightening the rear bolts Thoroughly clean the surfaces in order to remove any dirt and grease. Depending on the length of the fork steerer and on the desired handlebar stem position, you may need to install spacers above the headset. Maximum spacer height is 35 mm. The spacers are available in different heights. The stack height must position the top of the fork steerer 2 mm below the top of the handlebar stem. Make sure that the distance from the top of the handlebar stem to the top of the fork steerer in no greater than 3 mm.
- Some Deda Elementi handlebar stems (flip-flop reversible graphics) can be mounted regardless of the angle formed by the fork steerer. This allows you to fit the handlebar at two different heights using the same handlebar stem

- Install the expander in the fork steerer until it stops, and tighten the expansion bolt at maximum torque of 3 Nm. Tighten the top cap, which adjusts the bearing play.

Stem assembly instructions on carbon fork steerer
Always use an adequate expander for the fork and make sure that is positioned so that it can support the stem clamp force necessary to secure it to the fork. Follow the following instructions:

1. The expander must have a length enough to completely cover the stem clamp area and to exceed for atleast 10mm the stem clamp height (Fig. 5.2.1);
2. To allow the headset adjustment, the gap between the upper edge of the stem and the upper edge of the fork steerer must not exceed the value of 3mm (Fig. 5.2.1);
3. It is allowed to use a 5 mm spacer above the stem, in this case make sure that the expander comply the point 1 (Fig. 5.2.2).

IMPORTANT: If the stem clamp closes on an area where the expander is not present, it will tend to ovalize and cutthe carbon fork steerer, causing seriousaccidents for the user.
In fact, the steerer could suddenly break understress!(Fig. 5.2.3)
IMPORTANT: Do not exceed 5 mm with the spacer above the stem(Fig. 5.2.4). The incorrect position of the stem can damage the carbon steerer and the stem structure up to causing serious accidents for the user.

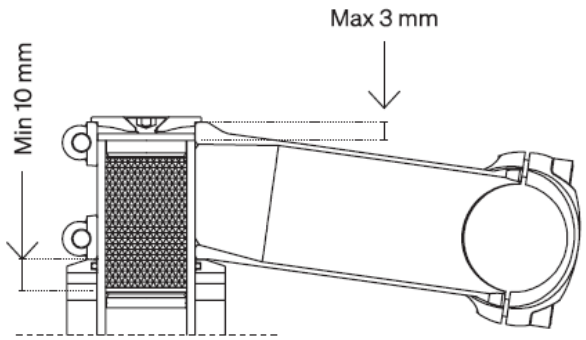


Fig. 5.2.1

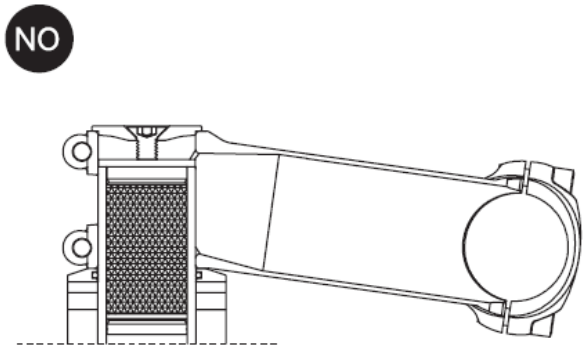


Fig. 5.2.3

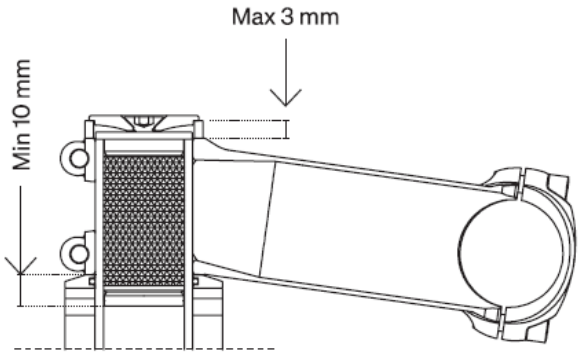


Fig. 5.2.2

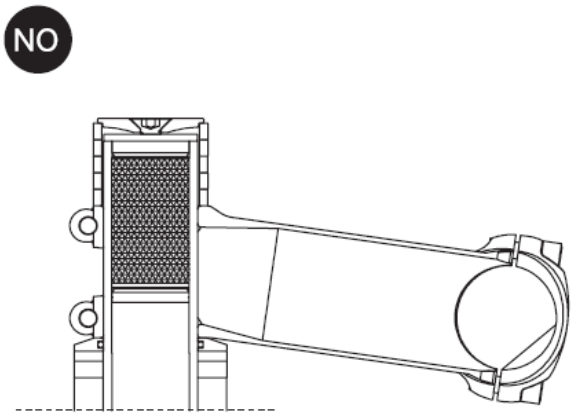


Fig. 5.2.4

Headset adjustment

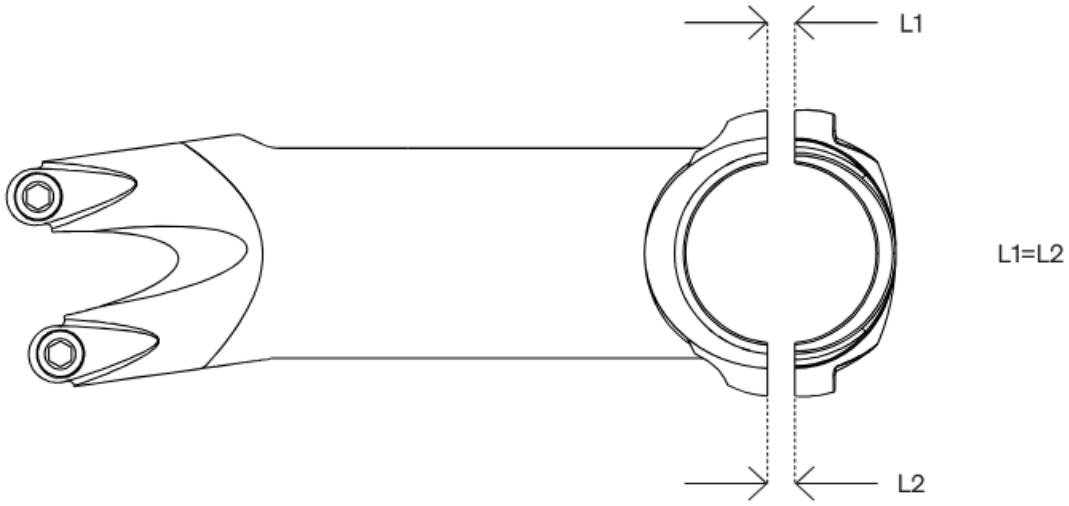
Adjusting the headset is a delicate procedure for which we recommend you contact your Deda Elementi reseller. If you decide to adjust the headset play yourself, please read carefully the instructions described in the operation

and maintenance manual of the headset you use and in the operation and maintenance manual of the fork your bike is equipped with.

- To adjust the bolts always use a torque wrench and follow carefully the recommended tightening torques in this manual!
- Remember that In the event of discrepancies, you should always use the lower recommended torque. Loosen the handlebar stem steerer clamp bolts without unscrewing them completely, so that the handlebar stem can slide along the fork steerer. By turning the bolt located on the top cap you can adjust the bearing play.
- **CAUTION!** Overtightening can damage the ball bearings, which could bind under stress!
- Once the headset play has been adjusted, check the handlebar stem orientation, which must be perfectly set in relation to the direction of travel. The handlebar will then exactly be at a right angle to the direction of travel. Tighten the two rear stem bolts in an alternating pattern using a torque wrench starting with a minimum torque of 4 Nm. If the handlebar stem is not tight enough, increase the torque up to a maximum of 5 Nm. Please check the handlebar stem, which should not rotate on the fork steerer.
- Deda Elementi components are designed to operate properly within a tightening range of 4 to 5 Nm. If, in order to avoid relative rotation of fork steerer, stem and handlebar you must exceed these values, this means that the assembled components are not compatible, or that grease and dirt have deteriorated the friction properties of the surfaces.
- **WARNING:** Always use a calibrated torque wrench to tighten the bolts. Use the minimum stem bolts tightening torque required to ensure that the handlebar stem does not rotate on the fork steerer. An unnecessarily high torque generates a dangerous state of radial compression on the fork steerer which can cracks and/or break without notice. Max suggested torque for Deda expander: 5 Nm (Expander 70 and D-Shape expander), 3 Nm (Expander 45). We recommend to check any further recommendation from your expander manufacturer.

Handlebar installation

- Before starting the installation of a Deda Elementi handlebar please check the handlebar compatibility with the stem you want to use (see “General Notes on Installation” section}. Mount your new Deda Elementi handlebar so that it is centered on the stem faceplate. On road bikes, as a rule of thumb please remember that the lower flat part of the handlebars should run parallel to the ground or slant slightly downwards toward the ground.
- Grease the faceplate bolts if needed (our bolts are pre-greased with seacock and thread them by hand Gust a few turns}, being careful that surfaces between stem, faceplate and handlebar are not contaminated with grease. Tighten the bolts so that the upper and lower clamping slots represent the same width.



- Then, using a torque wrench, tighten the bolts alternately in a cross pattern, turning½ turn at a time. With the 4-bolt faceplates, tighten the bolts alternately in a 1-2-3-4 cross pattern, until a torque of 4 Nm is reached. If your bike is equipped with a 2-collar faceplate tighten the bolts alternately in a 1-2 left/1-2 right pattern, until a torque of 4 Nm is reached.

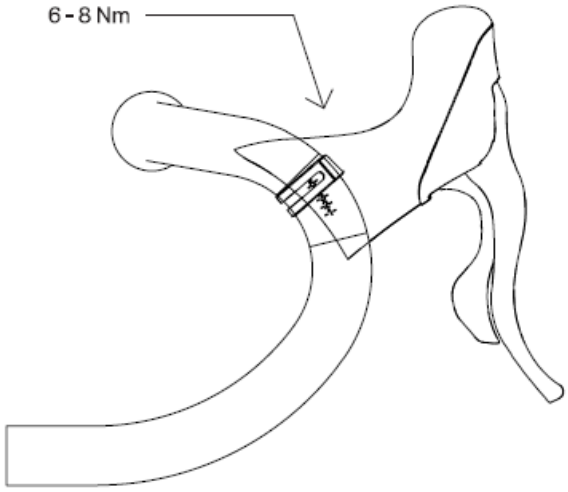
- Check the symmetry and equality of all the distances between faceplate, body, handlebar stem, if necessary, further tighten up to 5 Nm. Check if the handlebar is secure on the handlebar stem. Please make sure that the handlebar is tight enough so that you can’t twist it.
- Deda Elementi components are designed to operate properly within a tightening range of 4 to 5 Nm. If, in order to avoid relative rotation of fork steerer, stem and handlebar you must exceed these values, this means that the assembled are not compatible, or that grease and dirt have deteriorated the friction properties of the mating surfaces.
- The value of 6 Nm indicated on some DEDA ELEMENTS stems should never be exceeded under any conditions of use.
- Do not use shifter and brake lever that have burrs or sharp edges, as they can cut or make indentations in handlebars; loosen clamping bolts completely to ensure clamps are open all the way before sliding shifter and brake lever onto the handlebar. Tighten clamp bolts to the prescribed maximum torque manufacturer’s specifications. Never rotate levers on a handlebar after you have significantly tightened the clamp bolts, or you will scratch its surface marring the finish and potentially risk damaging the handlebar.

Fitting the brake-shifter levers on the handlebar

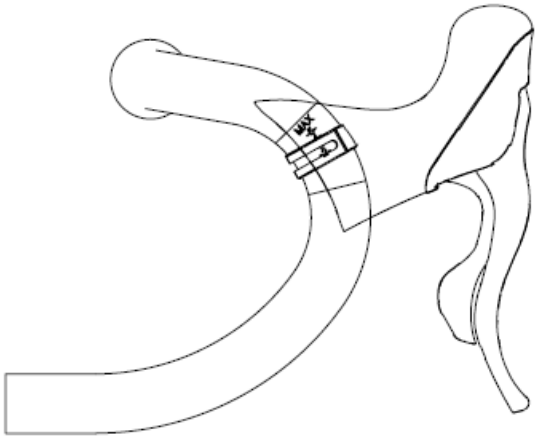
Before starting the installation of the shifter and brake levers on the Deda Elementi handlebars please check that

they do not have burrs or sharp edges, as they can cut or make indentations in handlebars. Install the brake levers following the instructions below:

- Loosen clamp fixing bolts completely before sliding shifter and brake levers along the handlebar
- Adjust the brake levers position with the clamp within the area identified by the graduated scale and tighten the clamp bolt using a torque wrench starting with a minimum torque of 6 Nm
- If the brake lever is not tight enough and rotates on the handlebar, increase the torque up to a maximum of 8 Nm
- **WARNING:** Never rotate levers on a handlebar after you have significantly tightened the clamp bolts, or you will scratch its surface marring the finish and potentially risk damaging the handlebar.
- **WARNING:** use the minimum tightening torque required to ensure that the brake levers do not rotate on the handlebar; in any case the tightening torque must never exceeds 8 Nm. An unnecessarily high torque generates a dangerous state of radial compression on the handlebar which can crack and/or break without notice.
- **WARNING:** If, in order to avoid relative rotation of brake levers on the handlebar, you must exceed these values, this means that the assembled components are not compatible, or that grease and dirt have deteriorated the friction properties of the surfaces.



A) Maximum brake lever height



A) Minimum brake lever height

Cleaning and care

- Regularly clean handlebar, stem, and seatpost with water and a soft cloth. Do not use harsh detergents such as acetone, trichloroethylene, solvents and other similar substances that may damage the finish and the substructure of the material. While cleaning, look for cracks, scratches, deformations or discoloration.
- If you have any doubts please contact your local authorized Deda Elementi dealer.
- Have damaged components replaced immediately. Do not expose handlebar and handlebar stem to direct sunlight and high temperatures. Replace handlebar tape at least once a year. Clean the handlebar with water and liquid soap. If necessary, remove the remains of adhesive with alcohol. Check the handlebar for damage or corrosion. For your safety, immediately replace any deteriorated or damaged components.

Warranty terms

Deda Elementi components are guaranteed two years from the date of purchase for defects and workmanship.

This guarantee is only valid for the first buyer upon presentation of proof of purchase indicating date of purchase, address of the dealer, and name of the Deda Elementi product purchased.

This warranty does not cover damage resulting from:

- Installation of the component by non-qualified personnel.
- Installation of non-compatible components.
- Negligence (lack of care and maintenance).
- Accidents.
- Incorrect installation and overstress caused by improper use.
- Modification made to the component (e.g., shortened seatpost).

Hand le bars and stems

Documents / Resources

	Deda Zero100 Handlebars And Stems [pdf] User Manual Zero100 Handlebars And Stems, Zero100, Handlebars And Stems, And Stems, Stems

References

- User Manual