

SUPERBOX



Superbox

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.

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It is under user's responsibility to examine the product on a regular basis to determine the need for service or replacement. Any component is subjected to wear during normal use of the bicycle, for that reason we recommend cyclists to regularly inspect their bicycle and parts in order to detect any damage. If any doubts or problems occur, discontinue riding and have them inspected by an official Deda Elementi dealer or a qualified bicycle technician.

- This product has been designed and intended to be used on normal paved surfaces or gravel roads. In case of improper use on not paved surfaces or off-road, the product can be subjected to damages, loose its functioning and cause serious accidents and injury for the user.
- Have you Deda Elementi component installed and adjusted by qualified professional mechanics from the Deda Elementi sales network.
- Always and only, use a torque wrench to tighten the screws, strictly respecting the tightening torques recommended in this manual. The value indicated on the components indicates the maximum recommended torque. If an emergency situation arises and you do not have access to a torque wrench, tighten the screws enough to prevent the relative rotation of the components with each other, and immediately go to a Deda Elementi dealer to check the correct tightening torques.
- Do not use the bicycle if the stem creaks or if you notice external damage such as cuts, cracks, swelling, corrosion dents, discolouration, etc. Have your Deda Elementi dealer carefully check for damage and replace the components if necessary.
- If any bicycle fall or accident occurs, discontinue riding the bicycle and have it inspected carefully by an official Deda Elementi dealer or a qualified bicycle technician. The use of any damaged bicycle part can cause serious accidents and injury for the user.
- Read the whole User's Manual carefully and keep it in a safe place for later reference.

Deda Elementi warrants that all products are free from defects in materials or workmanship for a period of two years after original purchase unless otherwise stated on the Warranty policy. The Warranty is valid with the purchase of an original Deda Elementi products only.

2.1 LIMITS OF WARRANTY

- In case of sale or product cession, the Warranty will be considered valid for two years period only from the original purchase.

- The Warranty does not cover damages caused by modifications, even small; any kind of adaptations or alterations; maintenance performed by an unauthorized people; use of the product outside the normal riding conditions. The Warranty does not cover even damages caused by impacts, collisions, falls that may occur for accidental reasons.

- The Warranty does not cover aesthetic defects like matting, chap, fading or other phenomenon that may occur during the use and after the bicycle cleaning using water in pressure, solvents or similar products, petrol.

- In case of imperfections, defects or damages found on the product, the user is asked to contact the dealer within 10 (ten) days; after this period ends the Warranty and it will be no more considered eligible.

Dedaindustrie S.r.l. reserves the right to modify partially or completely the products, instructions and warranty without any notice to the customer.

The following parts are included with the Superbox stem:

- 1) Headset compression screw M6x30 mm
- 2) Aero top cap
- 3) Stem body
- 4) Faceplate, 1 set
- 5) Stem screw M5x16mm, 6 pcs
- 6) D-clip
- 7) S-DCR cover
- 8) Cover screw M3x20mm
- 9) 10mm openable aero spacer
- 10) 20mm openable aero spacer
- 11) 46mm headtube topcover (for 1"-1/8 upper bearing)
- 12) 56mm headtube topcover (for 1.5" upper bearing)
- 13) Compression ring (grey color, only for 1.5" 36°x45° bearing type)

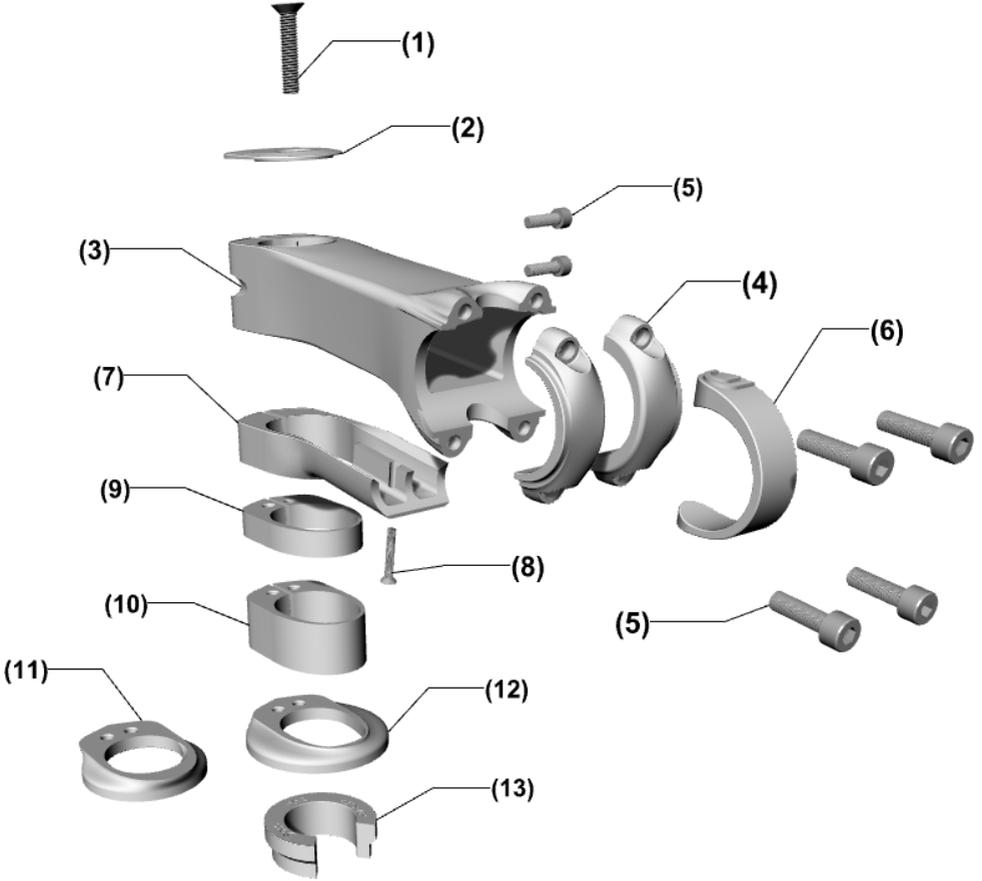


Fig. 3.1: Superbox exploded view

Superbox stem is compatible for both external and full internal cable routing.

4.1 TRADITIONAL BICYCLE FRAME

In case of assembling on traditional frameset (external cable routing), Superbox stem can be installed without the S-DCR cover (7).

4.2 BICYCLE FRAME DCR COMPATIBLE

DCR compatible frames require a 1"-1/8 fork steerer and 1.5" headset upper bearing. In this configuration, you must use the 56mm top cover (12) and the black compression ring of DCR original bearing 45°x45° or the grey version for 36°x45° bearing type (13).

In order to get the complete internal cables routing, the bicycle frame and the fork have to be compatible. Following features are the compulsory technical requirement. Discover more about the DCR compatibility with your frame on the website www.dedaelementi.com

4.2.1 FORK

Deda DCR system requires an entry hole for the front brake cable located at the fork steerer, this allow the cable routing up to disc brake caliper.

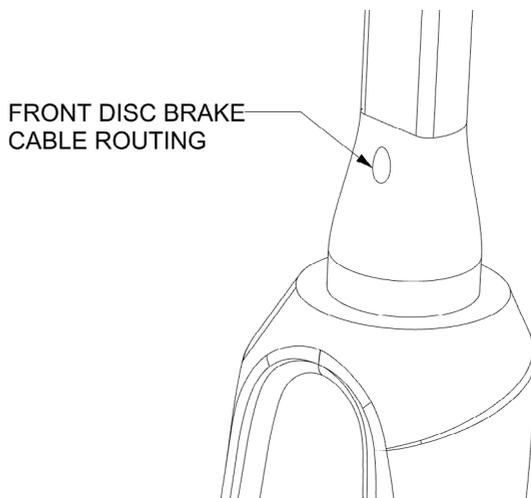


Fig. 4.1: front cable housing cable

4.2.2 UPPER BEARING SEAT FOR DCR SYSTEM

The upper bearing seat must respect the following specifications:

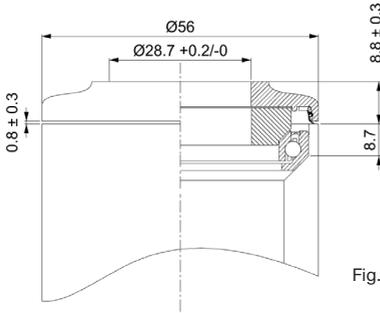


Fig. 4.2: upper bearing seat size

4.2.3 MOUNTING

In the case of mounting on the DCR frame, the cables will enter the nylon S-DCR cover (7) positioned under the stem, passing through the shims, the 56 mm cover (12) and black compression ring for DCR $45^\circ \times 45^\circ$ bearing $^\circ$ or the grey ring if using a $36^\circ \times 45^\circ$ bearing $^\circ$.

Here below a picture showing the full internal cables routing.



Fig. 4.3: internal cable routing view with S-DCR cover

4.3 BICYCLE FRAME WITH D-SHAPE FORK

This type of frames features a 1"-1/8 upper bearing and a fork steerer with a non-circular section (commonly called D-shape). In this configuration, you must use the 46mm topcover (11).

In the case of mounting on a frame with a D-shape fork, there are two mounting options:

- 4.3.1** Assembly with S-DCR cover (7) and a traditional handlebar, in this configuration the cables will enter under the stem in plastic cover (7) passing through the spacers and 46 mm topcover (11).



Fig. 4.3.1: cable routing view with S-DCR cover system

- 4.3.2** Assembly without S-DCR cover (7) with a DCR handlebar, in this configuration the cables will enter directly into the stem passing through the spacers and 46mm topcover (11)



Fig. 4.3.2: cable routing view with DCR system

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.

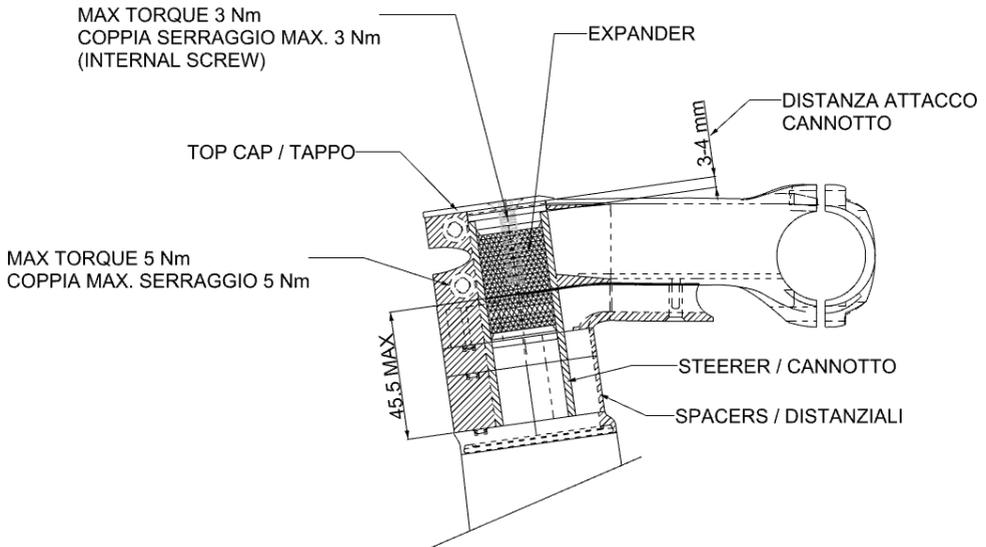


Fig. 5.1: Superbox assembly schema with S-DCR cover system

The assembly procedure is as follows:

- 1** Replace the original headset topcover mounted on the bicycle with the one included with the Superbox. Two covers are supplied, one compatible with 46mm head tubes (11) and one 56mm for DCR system (12). Use the black compression ring for DCR 45°x45° bearing or the grey version for 36°x45° bearing (13). The black compression ring is included with the DCR headset.

- 2** In case of internal cable routing, first insert the cables inside the cover and secure it with the M3x20mm screw included.

- 3 Insert the aero spacers in the fork steerer above the headset topcover respecting the following indications:
 - The 10 mm (9) and 20 mm (10) spacers are optional and allow you to adjust the stem at the desired height.
 - The S-DCR cover (7), if used (see paragraph 4. Cable routings), must be positioned directly under the stem and fixed with the screw (8).
 - The distance between the upper edge of the stem and the upper edge of the fork steerer must necessarily be $3 \approx 4$ mm.
 - It is allowed to use a standard 5 mm spacer above the stem; in this case a normal topcap should be used instead of the aero topcap included with the Superbox stem (2).

If necessary, cut the fork steerer according to the manufacturer's instructions and make sure there are no notches and / or irregularities on the cut surface. It is recommended that this operation be done by an official Deda Elementi dealer or a qualified bicycle technician.

- 4 Install the handlebar on the stem, starting secure it to the faceplate so that the handlebar can still rotate. At this point, insert the stem into the fork steerer.

- 5 Insert the expander (not included) into the fork steerer and secure it respecting the tightening torque indicated by the manufacturer.

WARNING: Make sure that the expander you use has a length greater than the height of the stem collar so that both rear screws of the stem tighten on a portion of the fork steerer completely occupied by the expander itself.

- 6 Install the dedicated aero cap (2) and tighten the compression screw to preload the bearings and reset the axial play in the headset.

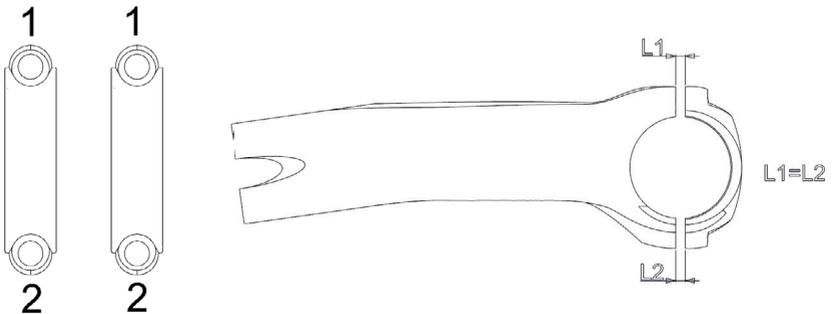
WARNING: Overtightening can damage the ball bearings that could get stuck under stress. Follow carefully the tightening torque recommended by the headset manufacturer.

- 7 Make sure the stem is aligned in the correct position. Tighten the two rear stem screws alternately, turning $\frac{1}{2}$ turn at a time, until a minimum torque of 4Nm is reached. If the stem is not tight enough, increase the torque up to a maximum of 5 Nm. Please check the stem, which should not rotate on the fork steerer.

WARNING: Always use a calibrated torque wrench to tighten the screws. Use the minimum tightening torque required to ensure that the stem does not rotate on the fork steerer (Max. 5 Nm). An unnecessarily high torque generates a dangerous state of stress on the fork steerer that can create cracks and/or break without notice and cause serious accidents to the user.

- 8 Rotate the handlebar to the desired position and tighten alternatively the faceplate upper and lower screw, $\frac{1}{2}$ rev. each time, up to the reaching of the tightening torque of 5 Nm.

2-PIECE FACEPLATE TIGHTENING PATTERN



Check the symmetry and equality of all the distances between faceplate and stem body, if necessary. The distance between the faceplate and the attachment body must be the same on the upper and lower part.

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.

WARNING: Bolts that are too tight or too loose can cause serious accidents that can lead to serious injuries or death.

WARNING: Deda Elementi stems 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 dealer or contact us at info@dedaelementi.com

Please repeat this check at least every 1500 km.

All bicycle components are subjected to wear, 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, saline environments, etc. Metal parts are particularly sensitive to atmospheric corrosion combined with the effect of athlete's sweating.

WARNING: Accidents, bumps or falls can produce micro cracks in metal components that are not apparently visible and give rise to sudden failures and breakages over time. These can cause serious accidents that can lead to serious injuries or death. Deda Elementi stems and faceplates are made of hard aluminium alloy. If are damaged as a result of impact or bicycle fall, they cannot be repaired. They **MUST** be replaced.

Every two years, or every year in the case of intensive use, please have a qualified Deda Elementi mechanic inspect the stem for integrity.

Regularly clean the stem 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 structure of the material.

While cleaning, look for cracks, scratches, deformations or discoloration. Have damaged components replaced immediately. Do not expose the stem to direct sunlight and high temperatures.

CONTACTS

For any question or technical information, please contact Deda Elementi by visiting the website at www.dedaelementi.com and through the email address info@dedaelementi.com.

Dedaindustrie S.r.l. reserves the right to modify without notice the content of this manual always guaranteeing the availability of the updated versions on the website download area.



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