



acros

headset manual
and product information

zs/ec

www.acros-components.com

Non-observance of the advice given in this manual can cause accidents resulting in death or serious injury.

Read this manual carefully before performing any necessary assembly and maintenance work. It is essential to read and observe all assembly and maintenance instructions, including those given in the manuals of other manufacturers whose products are used on your bicycle (frame, fork, stem etc.). Ensure that all other users of your bicycle carefully read this manual and observe the instructions.

intended use

Any use differing from the intended one can cause accidents resulting in death or serious injury.

important safety information

If not properly performed, assembly and maintenance work can cause accidents resulting in death or serious injury.

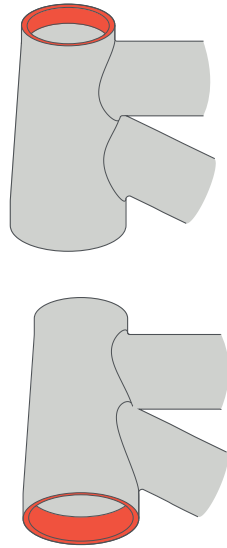
- Do not overestimate your technical ability. All assembly and maintenance work shall be performed by a specialist workshop for bicycles. This is the only guarantee of having this work done in a professional way.
- Use only acros genuine parts.
- Always keep your bicycle in a faultless technical state.

Danger of accident through a wrong riding mode.

- Use only the range of application for which your acros product is designed for.
- When riding your bicycle you should always wear a new cycling helmet of good quality (e.g. ANSI certified). Your clothing should be close fitting, but not uncomfortable. For special types of use (e.g. downhill) appropriate protective clothing is indispensable.
- Only ride your bicycle when you are in good physical condition.
- Don't jump with your bicycle – the forces created by such manoeuvres are enormous and frequently cause serious accidents, which can result in death.

You should also rely on your common sense and avoid any unreasonable behaviour!

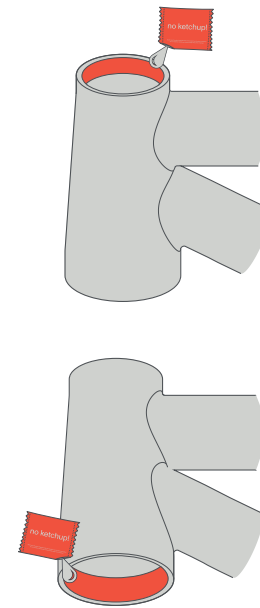
1



preparation

Remove all paint residues from the upper and lower edges of the head tube and clean the inside.

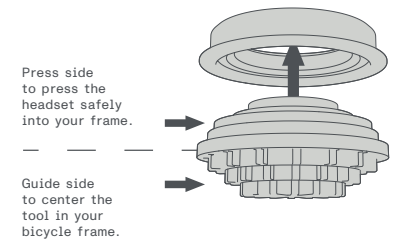
2



greasing

Apply a thin layer of grease to the inside of your head tube.

3



Press side
to press the
headset safely
into your frame.

Guide side
to center the
tool in your
bicycle frame.

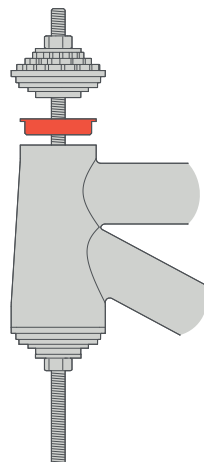
diy headset tool *

Place the bearing shell with the pressed-in bevel ball bearing to a suitable press-fit adapter of your headset press-in tool.

Attention! Ensure that the inner ring of the bearing is not subjected to any load during press-fitting. That would damage the ball bearing.

*In this manual we show how to mount the headset with our diy headset tool [01.52.500R2]. Please be aware, that there is a separate for our headsets with steering stop (blocklock-zs44 and -zs56).

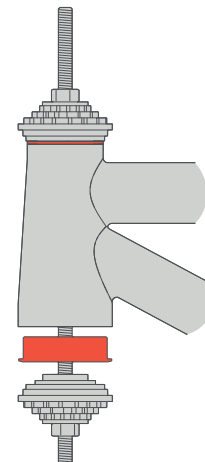
4



press in upper part

Mount the press-in tool in the frame as shown. If you have already mounted a lower headset part, you have to turn the lower adapter upside down to avoid damaging the ball bearing. Then press in the upper headset part by tightening the nut clockwise. It is completely pressed in when the bearing shell is flush with the frame.

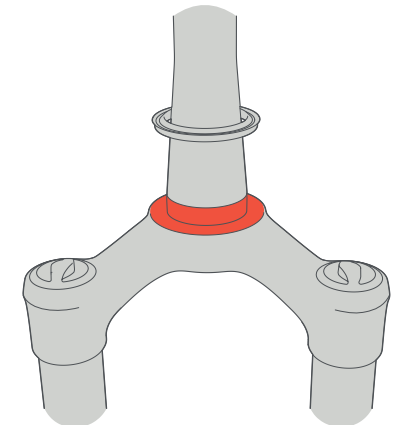
5



press in lower part

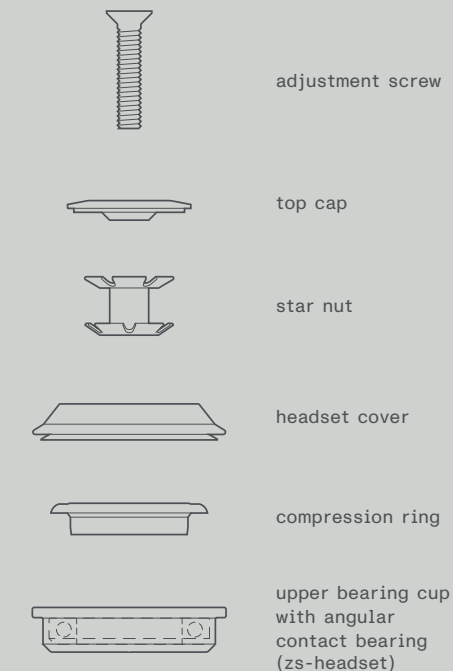
Repeat step 3 and then mount the press-in tool in the frame as shown. If you have not yet mounted the upper headset, you will need to turn the lower adapter upside down. Then press in the lower headset part by tightening the nut clockwise. It is completely pressed in when the bearing shell is flush with the frame.

6

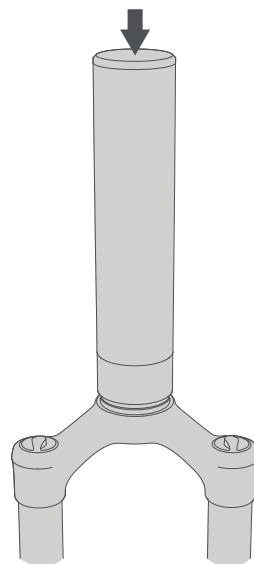


assemble crown race

Clean the fork steerer at the lower end and apply a thin layer of grease. Then guide the crown race with the bevel pointing upwards on the steerer tube.



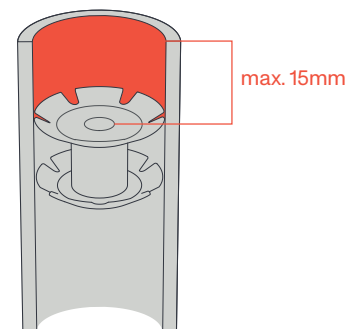
7



mount crown race

Tap the crown race in place with a suitable tool. You are finished as soon as the crown race sits flat on the fork crown.

8

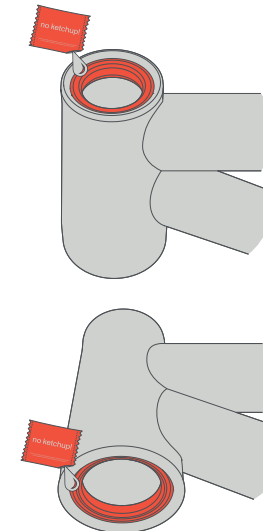


assemble star nut

If you mount a new fork, shorten the steerer tube to the correct length. Then drive the star nut into the steerer tube with a suitable tool for a maximum of 15 millimetres.

Warning:
Never drive the star nut into a carbon steerer tube! There are suitable expanders for this.

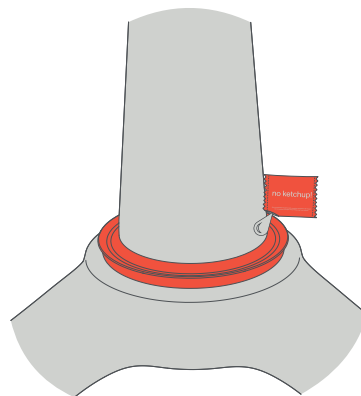
9



grease ball bearings

Coat the upper and lower headset bearings generously with fat.

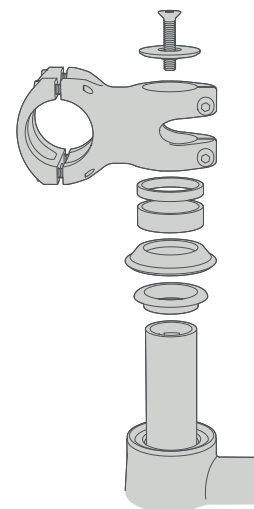
10



grease crown race

Then generously coat the crown race with grease before you install the fork.

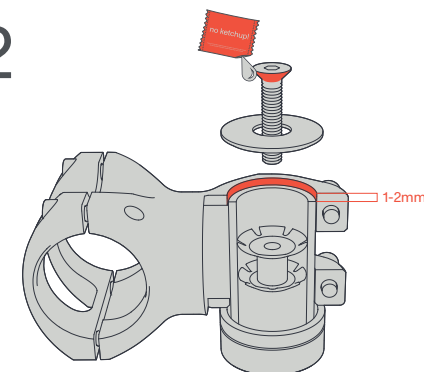
11



mount the fork

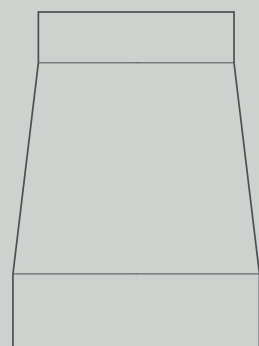
Guide the fork through the head tube until the crown race touches the headset. Hold the fork in position and guide all other components onto the fork cone: compression ring, headset cover, spacer and stem. There have to be 1-2 millimeters space between the upper edge of the steerer tube and of the stem to preload the headset in the next step.

12



adjust headset play

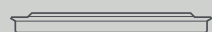
Now place the top cap on the stem, grease the head of the adjustment screw and turn it clockwise into the star nut. Tighten the screw only with 1.0 Newton meter. The stem screws must not be tightened at this point. Now pull the front brake with one hand. Grab the head tube and headset cover with your other hand and move your bike back and forth. If you can feel play, tighten the adjusting screw slightly more. Repeat this process until you can't feel any play. Then align the stem correctly and tighten it according to the manufacturer's instructions.



bike frame head tube



lower bearing cup with angular contact bearing (zs-headset)



crown race