

Trickstuff „Exzentriker“

The „Exzentriker“ is an eccentric bottom bracket which gives the possibility to adjust the chain tension on single speed bikes or while using a gear hub.

It replaces the bearing caps of your Hollowtech II bottom bracket. Potential spacers have to be used just in the same way as on standard bottom brackets.

CAUTION! The „Exzentriker“ is for single speed or gear hub use ONLY! Only crank sets with 24mm axle and without the mounting bosses for the small chain ring (24 T and smaller) are suitable.

We advice everyone to refer to a shop for the installation. The use of the Exzentriker tool is strongly recommended.

If you have further questions please ask your local dealer or Trickstuff:
 Tel. +49 (0) 761 / 707 41 92.

Installation

Spacers between the bottom bracket cap and the bottom bracket body shall be used in the same way as on a standard bottom bracket.

- Road-Crank: 68mm BB housing: no spacer
(Note: Road Cranks can be mounted on 68mm housings only!)
- MTB-Crank: 68mm BB housing: 1 spacer on the left side, 2 spacers on the right
- MTB-Crank: 73mm BB housing: no spacer on the left side, 1 spacer on the right

Grease all threads and the inner surface of the steel cup with water repellent grease. The outer diameter of the steel cup must not be greased!



1) Screw the steel bottom bracket caps firmly into the frame by using the special EX-Tool. Make sure the tool fits firmly to the ground of the cap. Torque: 40 Nm.



NOTE: Watch the screwing direction!
 Left side: right-hand-thread (“R”);
 Right side: Left-hand thread (“L”)



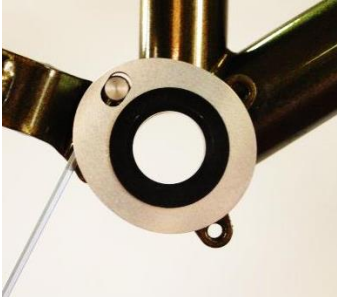

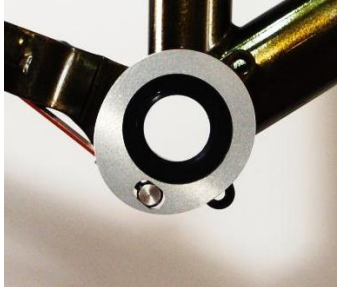
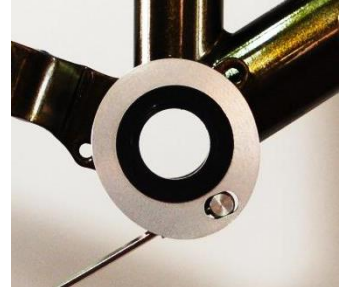
2) Plug the eccentric bearings cap without clamping bolt unit onto the steel caps. Mount the greased clamping bolt. Fix the clamping bolt with the M4 screw slightly.

- 3) Push the 24mm axle through the bearings and mount the second crank. Do not fasten the screws yet!
- 4) Measure the chain length and shorten the chain as much as possible. Place the chain onto the chain rings.

5)a) Adjust the chain tension by turning both eccenters parallelly.

Important: In order to avoid self turning of the eccenters under high chain load without locking the fixing bolt too much und thus causing marks on the surface of the steel caps, the eccenters have to be positioned as follows:

For a certain chain length or chain tension there are always two possible positions: In the upper quadrant or in the lower quadrant. Chose the position of the eccentric so that the fixing bolt of the drive side eccentric would be tensioned when the chain tries to turn the eccentric.

	Chain	
	short	long
	(Center of ball bearing is behind BB housing center)	(Center of ball bearing is in front of BB housing center)
Bolt of right egg to be inserted clockwise	Center of BB spindle is located in <u>upper rear quadrant</u> 	Center of BB spindle is located in <u>upper front quadrant</u> 
Bolt of right egg to be inserted counter-clockwise	Center of BB spindle is located in <u>lower rear quadrant</u> 	Center of BB spindle is located in <u>lower front quadrant</u> 

It is crucial for the bearings that they are perfectly aligned. Easiest way to achieve this is that the non drive side eccentric is being turned until the spindle can be slipped with very low resistance through both bearings and is really free moving.

If the chain tension is correctly adjusted and both sides parallel, fix the M4 Screws with max 3Nm.

5b) If the adjusting range of the “Exzentriker” is not enough to tension your chain, two chain links have to be replaced by a half-link. (The Halflink chain link fits 7-speed, 8-speed and 9-speed chains.) Changing the transmission ratio is another possibility.

6) Tighten the second crank according to the crank manufacturer’s instructions.

7) Check the chain tension regularly and adjust it if required.

That’s about it ☺. Have fun!

Yours, Trickstuff-Team!

