

TREK BB90/95 *RADIAL* BEARING KIT FOR SHIMANO CRANK SETS

IMPORTANT NOTES:

This bottom bracket is designed for use with Trek BB90 and BB95 proprietary BB shells with "net molded sockets" running "Hollowtech 2" crank sets. These cranks have a spindle diameter of 24mm.

Whether your kit included a new spindle sleeve or you are reusing the existing sleeve, one half of the sleeve has a slightly larger Inside Diameter. The larger sleeve half needs to be on the NON-drive side of the BB shell.

THE RADIAL BEARINGS INCLUDED IN THIS KIT ARE NON-DIRECTIONAL. RADIAL BEARINGS DO NOT LIKE SIDE-LOADING. Technically speaking, radial bearings cannot be "adjusted." The bearing grooves in the respective inner and outer races should remain perfectly aligned with each other.

PLEASE FAMILIARIZE YOURSELF WITH THE INSTALLATION DIAGRAM BELOW BEFORE PROCEEDING

- 1) Be sure the spindle sleeve is properly seated and oriented with the larger half toward the non-drive side bearing, as illustrated.
- 2) Use Super Coat Grease (or similar) to coat the outer races of the bearings and inside surfaces of the BB shell bearing sockets.
- 3) The radial bearings included in this kit are NOT directional and can go in either side of the bottom bracket shell with either seal facing in either direction. In most cases, the bearings can be fully seated into the BB shell sockets by hand. Other applications will be a tighter fit. In some cases, a careful tap with a rubber mallet will seat the bearings. If your application is particularly tight, you may need to use a special press tool. (<http://www.enduroforkseals.com/id414.html>)
- 5) Place one of the auxiliary seals onto the crank spindle and slide it down against the crank spider (numbers on seal facing away from the bearing). Look at the diagram if you have any uncertainty regarding proper seal orientation.
- 6) Lightly grease the crank spindle. and the back of the auxiliary seal.
- 7) Carefully guide the crank spindle through both bearings until the drive side seal is seated against the drive side bearing.
- 8) Grease the back of the remaining auxiliary seal, place it on the protruding spindle, and slide it up against the bearing.
- 9) Properly align the non-drive side crank arm and slide it onto the spindle. Install the crank arm end cap and tighten it until the crank arms on both sides of the bottom bracket are contacting the auxiliary seals and holding them in place against the bearings. If you are using a torque wrench in conjunction with a crank arm end cap tool (<http://enduroforkseals.com/id475.html>), the proper torque value will be approximately 0.7-1.5 Nm (6-13 Inch Pounds). IF YOU EXCEED THIS VALUE, YOU WILL SIDE LOAD THE RADIAL BEARINGS, CAUSING FRICTION AND PREMATURE WEAR.
- 10) Spin the crankset to check for smooth rotation.
- 11) Tighten the opposing pinch bolts of the crank arm to 12-15 Nm (88-132 Inch Lbs). Tighten each bolt alternately until this torque value is achieved.

