



Kogel Bearings Service Manual

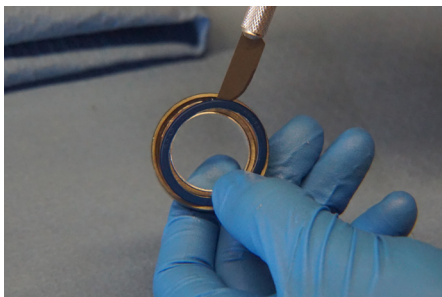
1. Some of our favorite tools for removing bearings from the cups are the Enduro BRT002 and BRT003. Whichever tool you use, make sure that it does not involve a hammer and a punch to remove the bearings from the cups, this will ruin the races and bearings permanently. All Kogel cups have a lip on the inside that will catch a punch and protect the bearings. If you do not have access to a threaded bearing removal tool like the one in the photo, consider to service the bearings without removing them from the cup.



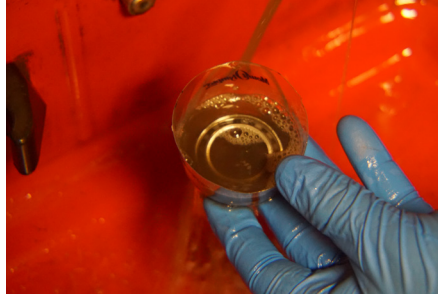
2. Once the bearings are removed from the cup, clean them with a rag.



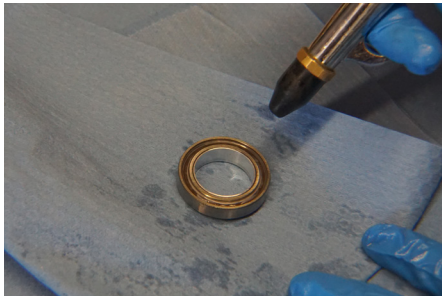
3. Remove the bearing seals with a scalpel or pick. No need to be too careful, we are going to replace the seals as part of the service. Just make sure not to scratch the races or damage the cage inside.



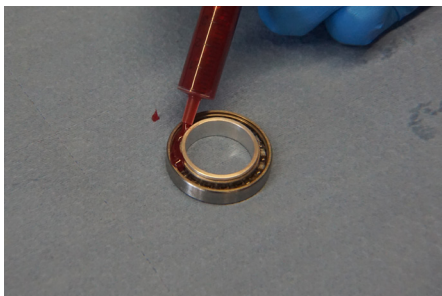
- Clean and degrease the bearings, no need to disassemble them any further than we have done so far. If you do not have access to a professional cleaning station, it is OK to soak the bearings in a cup and move them around. Move the races and balls to work the degreaser in. As a rule of thumb: any product developed for a bicycle chain, is probably good for bearings. We like White Lightning's Clean Streak, but feel free to pick your favorite.



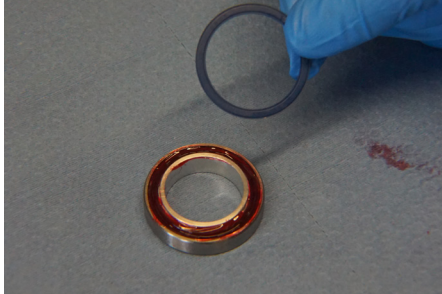
- Use compressed air to blow dry the clean bearings. If you do not have access to a compressor, it is OK to wipe the bearings with a clean rag and let them dry overnight.



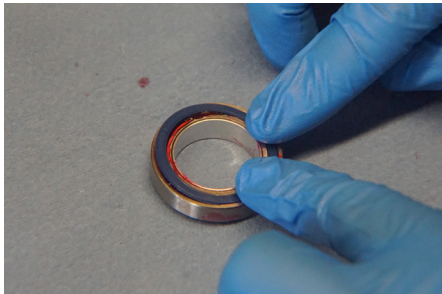
- Fill the bearings with your grease of choice. We recommend the Kogel Bearings Secret Grease Mix, but if another grease works better for you, we're all good with that. Remember that very light greases will run with less friction, but require more frequent service.



7. The filling degree is not a scientific process. At our manufacturing plants we can choose a certain level for individual bearings. For aftermarket service it is best to go by 'more is better'. Fill up those bearings nicely for protection. Any excess grease will be pushed out over time.



8. Take a fresh set of seals and install them with your fingers. You should be able to softly feel them pop into place. Seals are wear items, like tires and handlebar tape. The contact surface between the seals and the races will degrade over time. Do not recycle last year's seals. They're cheap. Treat yourself!



9. Reinstall the bearings in the cups, either with Morgan Blue Aqua Proof Paste or Loctite 638. Use the Enduro tool and the Kogel drift set for best results. Remember that installing bearings in a frame or cup is a matter of smoothly sliding them in. As soon as you feel the bearing bottom out: you're done! Do not give the tool an extra nudge for supersnug fit. There is no such thing. Back off as soon as you feel the pressure in the tool ramp up.

