

REPAIR AND MAINTENANCE

MODEL: BERG 2021

	<p>Unscrew counterclockwise the counterbolt on the non-drive side with Torque 8 about 2 turns.</p>
	<p>Unscrew the bearing dust cap counterclockwise.</p>
	<p>Hold the non-drive side with closed spanner 17</p>



Unscrew with hands the driven side dust protection cap.



Pull the freehub out the shell.



Remove the ratchet and inspect springs and condition, cleaned if needed and apply new grease.



Remove spacer.



With palm of the hand, push the axle out the shell.



Continue pushing, normal strenght is required.



Pull the axle out of the shell.



Inspect the general condition of the parts.



New bearings are optional, if not experienced, please do not clean the bearings, if experienced, please continue with the following steps.



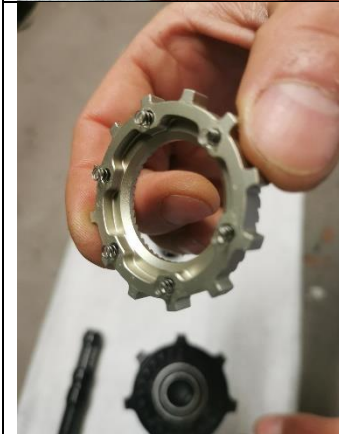
Remove the bearing seal.



Remove old grease, dust and mud, inspect condition bearings, apply SKF bearing grease.



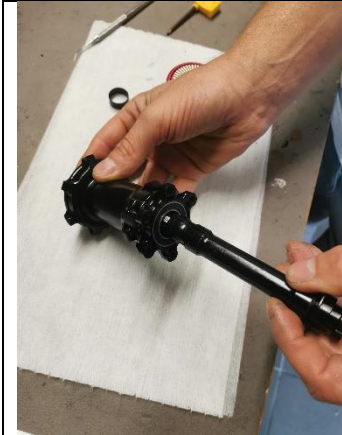
Place Shell back in position.



Mount clean ratchet back.



Mount ratchet in position as shown in picture.



Insert axle with ease.



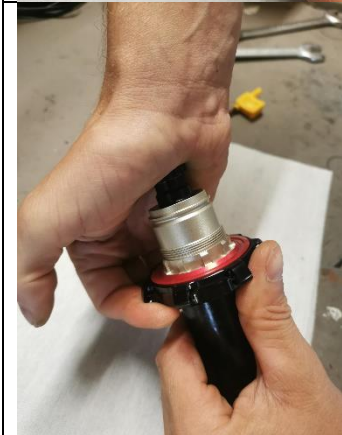
Install spacer back.



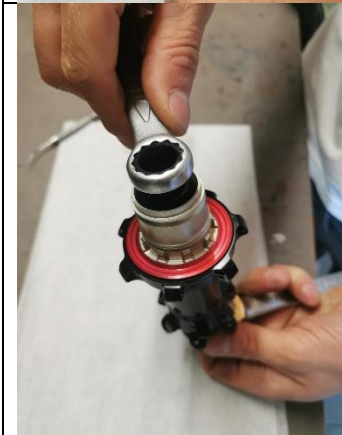
Mount freehub back.



Install dust bearing cap.



Firmly push the cap in position.



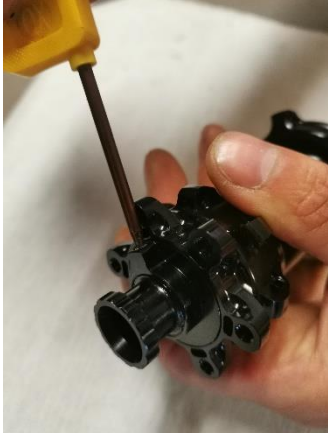
Tighten both ends with spanner 17. Do not overtighten!



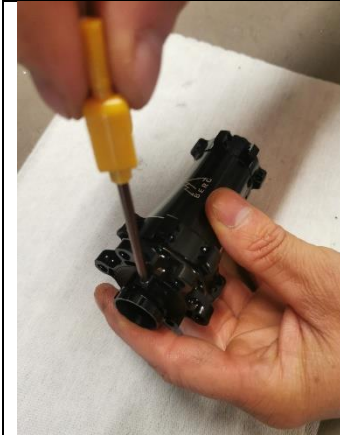
Push again the dust cap in position.



Check if there is no loose spacing on the axle and parts.



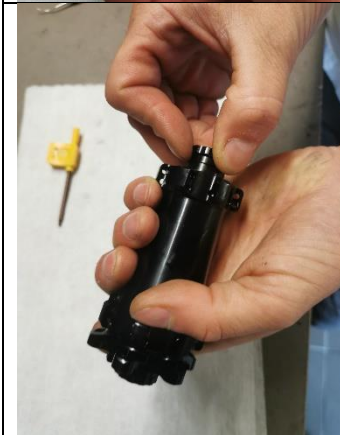
Tighten the non-driven side dust cap in position.



Open the dust cap with torque 8.



Unscrew the dust cap.



Unscrew both axle ends, should be possible with hands.



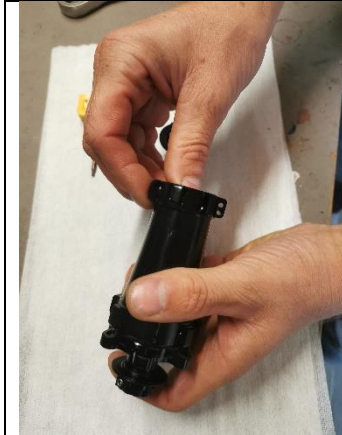
Use spanner if needed, but do not use excessive force to open both ends.



Unsrew axle end.



Inspect the general condition.



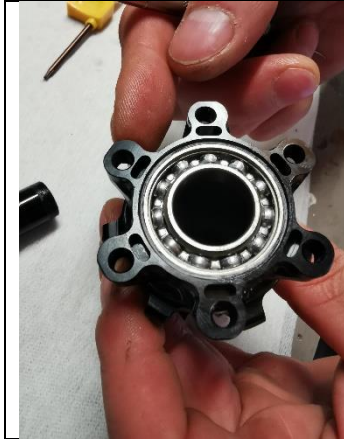
Push the axle out of the shell.



Remove the axle by hand and clean if needed.



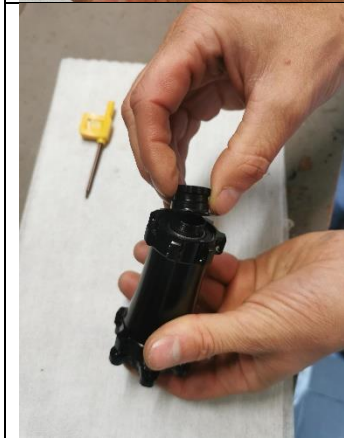
Remove seal and clean bearing and apply SKF bearing grease. If no experience, change bearing.



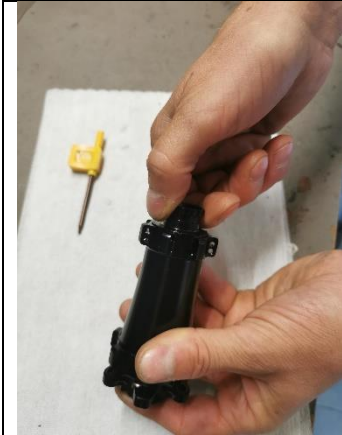
Picture of a cleaned bearing (without grease) bearing needs grease until the seal is reached.



Mount axle back in position,



Screw the endcap back.



Feel if there is no spacing anymore.



Tighten with spanner 17 and 19 both ends (handtight)



Pop the end cap in position.