

# Daiwa DF100A GIANT Disassembly and Modification

SOURCE : [http://www.forumsumowe.pl/t-daiwa\\_df100a\\_giant\\_naga\\_sesja\\_modyfikacja.html](http://www.forumsumowe.pl/t-daiwa_df100a_giant_naga_sesja_modyfikacja.html)

TRANSLATED from Polish to English, using Google Translate

\*\*\*\*\*

naked session + modification

As I mentioned earlier in other topics about this spinning wheel, you can try to improve this basic version. The modification consists in equipping the reel with missing ball bearings and mounting an additional roll in the roll. I divided the whole into three variants and each will choose, depending on the possibilities and skills. On the occasion of taking a photo session with the dimensions of important components.

Variant 1 basic.

General view of cement mixer.



Parts and tools needed for processing: grease, bearing 6900 - here in the version with 2RS rings and stainless steel SS, inner inner ring 22mm, flat wrench 14mm, cross screwdriver, pliers for Seger inner rings.



This small bearing next to it will be needed in the second variant



The diameter of the reel spool.



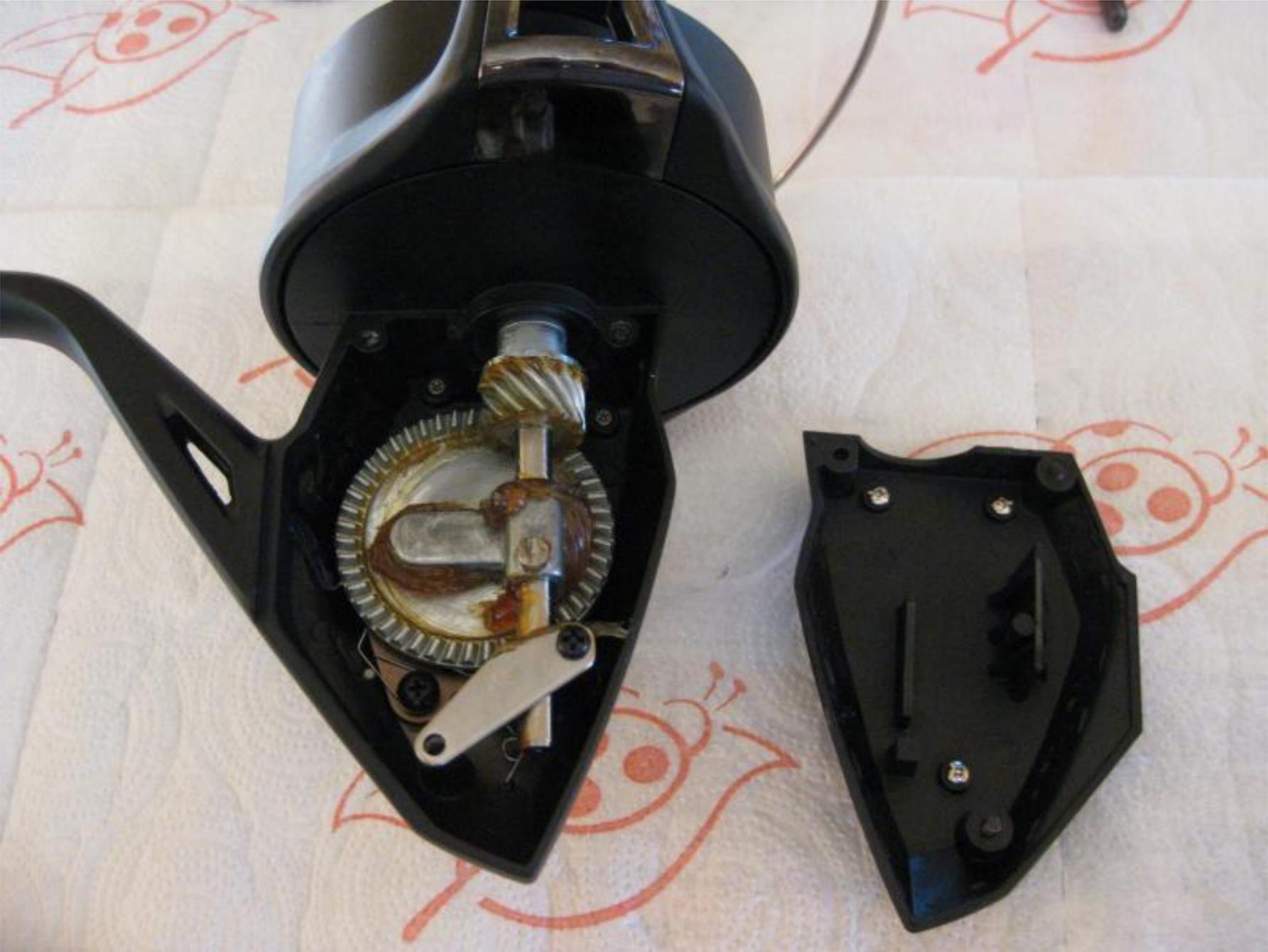
Diameter of brake discs.



The diameter of the thickened axis under the spool.



After unscrewing three screws and removing the cover, we get access to the main reel gear.



To remove the reel axis, remove the locking pin



Diameter of the spool axis



View with the removed axle and its drive



Now, we can proceed to dismantling the rotor. To do this, unscrew the nut using a flat wrench 14 and remove the rotor. Note in some of the very hard to go down and you need to sweat a good deal.



All disassembled parts are put aside so that nothing disappears in action.



After removing the rotor, use the cross screwdriver to unscrew the screws of the main bearing cover and disassemble the pinion together with the bearing and spacers.



Everything after dismantling looks like this:



The diameter of the pinion gear.



We remove everything from the pinion and assemble in order: original bearing with 10x20x6 reel, longer spacing sleeve, Seger ring 22, purchased bearing 6900 with dimensions of 10x22x6. After this operation are a short distance sleeve and bearing washer, at the bottom of the picture, and these elements will not be we already need it.



In this order, we assemble everything back in the spinning wheel remembering the assembly of the segher ring under the upper bearing 6900.



After mounting, the ring should be placed in the lower part of the seat for the upper bearing.



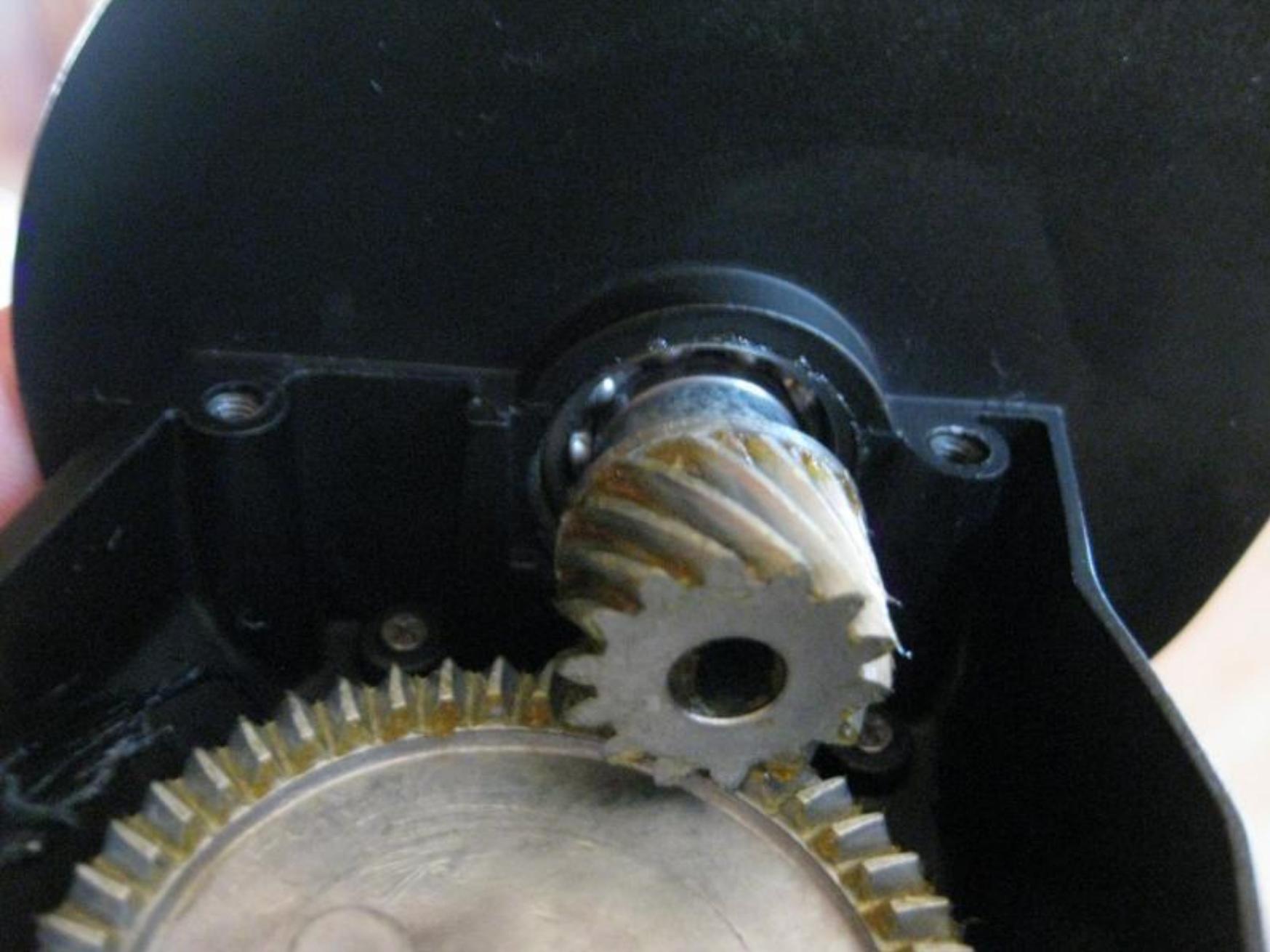
We mount the upper bearing 6900



Screw the bearing cover onto the screws



After this action, the pinion, and thus also the rotor, is mounted in two points. At the contact of the gears, we gain support, and thus the drive system is stiffer and less susceptible to damage.



In the first variant on this we will finish. We lubricate the transmission and drive of the reel.



We mount the axle and its drive.



We do not forget about the bolt securing the axle



After mounting the cover, the reel is ready to be towed over two meter long mustache. The bearing and segea ring cost several zlotys including the parcel and can be purchased in the SS version, even on the well-known auction site. I think that there should be no problems, if you ask me.



**Other variants of the reel's modification, a little more difficult but feasible.**

**The second variant.**

**It consists in making the first variant in its entirety, and additionally replacing the plastic bushing on the crank axle with a ball bearing. To this end, one should obtain a bearing MR 148 ZZ - 8x14x4 mm or even better S-MR 148 EZO with dimensions 8x14x3,5- Simple single-row ball bearing, stainless.**

**When making the first variant, take out the main sprocket with the crank axis and the plastic sleeve with spacers in the amount of 2 pcs. The whole after dismounting looks like this:**



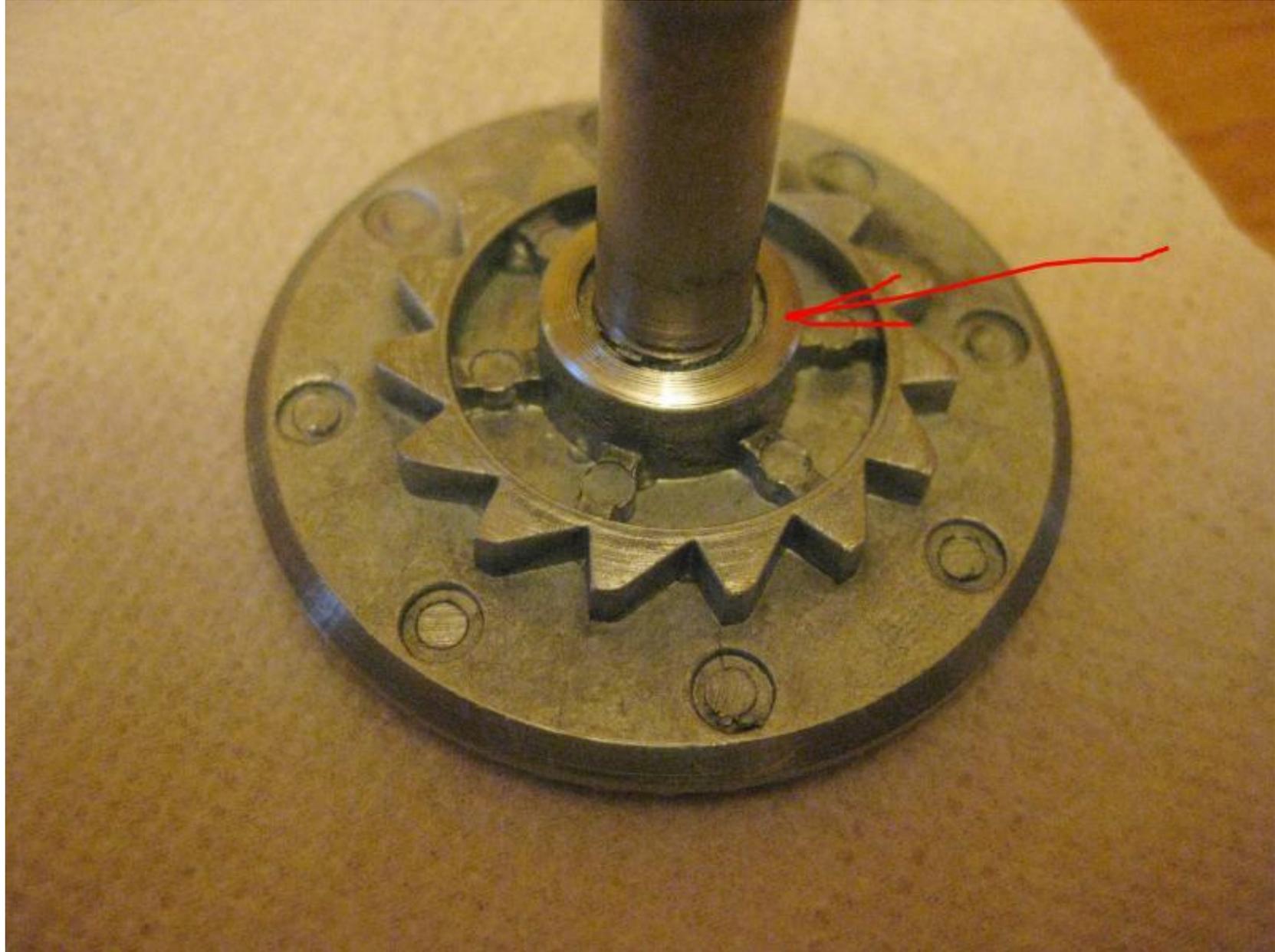
We remove the bushing and washers and mount the MR148 ZZ bearing without washers and lubricate the whole.



We mount the rack with the axle in the reel body and assemble the whole to the end as in the first variant.



Unfortunately, during the modification of two copies there was a problem with distance gears and spinning reels turned too hard. There was an interference on the lathe consisting of rolling the bearing support 0.3mm and using one distance washer from the reel (0.2mm) between the bearing and the rack. Rolling place marked with an arrow



Therefore, it will be a much safer solution to buy an S-MR 148 EZO bearing with dimensions of 8x14x3,5 and then leave both washers in the same place as it was originally with the bushing.

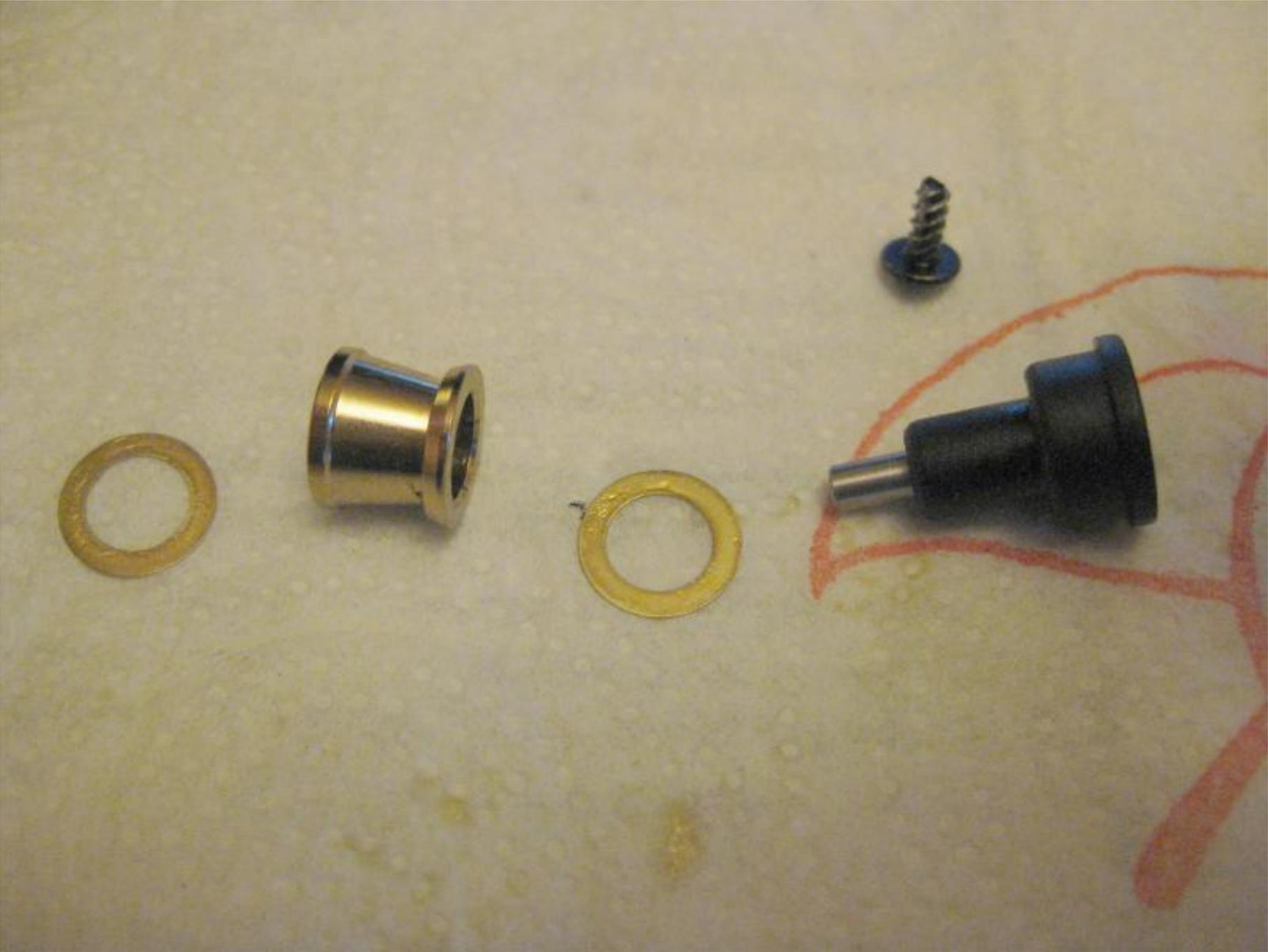
Unfortunately, this bearing is more expensive and can be purchased, for example, in the online store ALBECO. After this operation, we have a reel equipped as in the GS100 version.

Third variant.

The third variant is a slight extravagance. It supports the installation of ball bearings in a bail roll. To do this, unscrew the screw in the roller assembly.



We take out the roll with washers and axis. The whole after dismantling looks like this:



The MR 63 ZZ 3x6x2,5 mm bearings in the amount of 2 or 3 pieces will be needed for modification. Since the inner diameter of the original roll is 6.5 mm, a spacer sleeve will be necessary. I commissioned such a familiar turner to give advice despite a small wall thickness of 0.25 mm. The sleeve can be made of an aluminum tin from a beverage can, or even rolled up from some plastic. I used two bearings plus the distance between them.



Remove the metal shaft and cut the ball with the original plastic sleeve as shown in the picture.



Align with sandpaper or a file and mount a metal axis and washer:



On the axle we assume a set of bushes with bearings and a distance between them (you can use three bearings and the distance will not be needed)



**We put a roll and a second washer on the sleeve and assemble the whole in the bail. After this operation, we can enjoy the ball bearing. It is recommended to sprinkle some bearings with a rare olive before assembly.**



**As you can see, variants 2 and 3 are a little harder to do, unless you purchase the S-MR 148 EZO bearing dimensions 8x14x3,5 for the second variant - then it is simpler.**

**The most important modification and giving the most is the first and second variant, the third is not necessary. The roller sleeve is really made of hard plastic and will certainly withstand a lot if it is treated with olive again and again. The interference will be needed if it is worn out, but the decision belongs to Mustache.  
PLEASANT LEAVING AND GREETING.**

**I missed one photo with the roller installed at the end of the description of the third variant.**

