

Topic : Tool to extract or insert main platter bearing's bronze bushings.

Content : Tutorial to realize a simple, cheap and efficient tool to change the bronze bushings of the TD 124 main platter bearing.

I've restored my THORENS TD 124, thanks to a lot of advices I've found on different forums, and it's now my turn to contribute.

It is a small tool which enables you to change easily the bronze bushing from the spindle bearing without any risk for your precious turntable.

You need a few parts available on the Internet for cheap :

- 1 CHC bolt, hex socket head cap screw, DIN 912 M10 x 100, total thread length, 16 mm for the head diameter (Allen key number 8)
- 1 hexagonal nut DIN 934 M10
- 8 flat washers, narrow type Z, NFE 25513, M20 (DIN125 A)
- 1 flat washer, large type L, NFE25513, M10 (DIN125 A)
- 1 nylon flat washer M8 (DIN125 A), 16 mm extern diameter, central hole enlarge from 8 to 10 mm
- 1 bandwidth of adhesive tape for electrician
- 1 tube of super glue (Loctite or cyanolit)

How to proceed :

A - Insert the nylon washer against the head of the CHC bolt. It is used for protecting the top of the bronze bushing during its extraction or its insertion in the bearing's shaft.



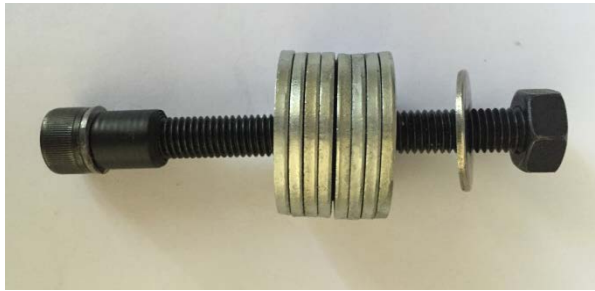
B - Wind a bandwidth of adhesive tape around the bolt, just below the nylon washer until you get close to the internal diameter of the bronze bushing (approximatively 14 mm). This tape protects the inside of the first bushing and enables you to center the CHC bolt.



C - Stick with some superglue the 8 flat washers M20 so as to form a kind of « cage », which will be used to take the former bronze bushings out and get it back. This « cage » is useless during the insertion of the new bushings.



Here we are, your tool is ready to be used !



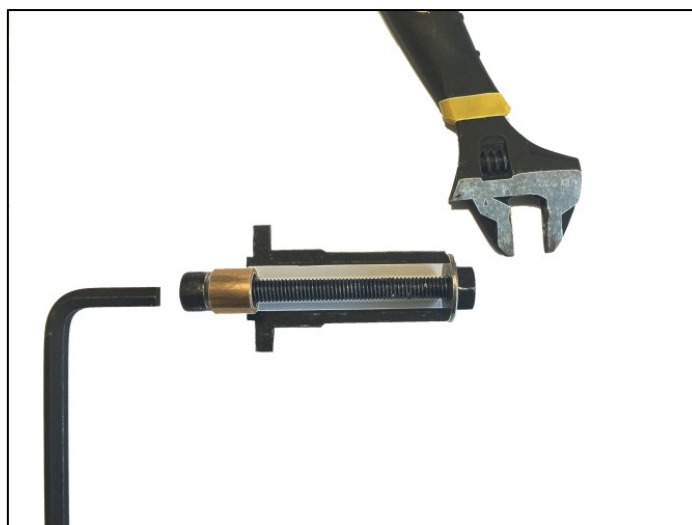
You just have to take off the main platter bearing's shaft from the turntable after having checked the position and the tightening level of the three fixing screws.

The hexagonal nut, the M10 washer and the cage in case of extraction all together must be positioned at the base of the bearing's shaft.

Use an allen wrench to block the CHC bolt inside the shaft, and use an open-end wrench or an adjustable wrench to turn the nut further, but remember to act gently and gradually.



Extraction position



Insertion position
(Reverse the tool to insert the other bushing)