

REPLACING THE MILL HEAD COLUMN BEARINGS ON THE GN1300 SERIES



DESCRIPTION: This document is for the removal and installation of the mill head column bearings on the Granite 1300 series machines. This document for use when the column has already been removed from the machine

NOTE: All numbers in this document are from the parts breakdown from the back of your machine manual. This document uses the page for the “Diagram and Parts List Mill/Drill Head”.

<u>STEP</u>	<u>DESCRIPTION</u>	<u>PICTURES</u>
1	Make sure all the #20 steel balls have been removed so they will not fall out as you work on the column.	
2	Remove the bevel gear #3 from the base of the column.	
3	Bend the locking tab #16 away from the spanner nut #17 and remove the spanner nut. It may be necessary to use a small punch and a hammer to loosen the spanner nut.	
4	Press or drive the shaft #22 out of the column and remove the bearing from the shaft.	
5	Remove the screws #13 holding the upper bearing seat in place.	
6	Drive the upper bearing out of the bearing cap.	
7	Clean and inspect the bearings.	
8	Replace bearing if there is signs of damage.	
9	Use a good quality grease. We recommend Lucas RED “N TACKEY. It is very sticky and will stay in place. It also will not separate like some lesser quality greases.	
10	Install the lower bearing onto the end of the mill drive shaft. See the diagram to the right.	
11	Install the upper bearing into the upper bearing seat.	

12	Install the shaft into the column and put the upper bearing assembly on the top of the column.	
13	Install the locking ring and the nut to the top of the shaft and tighten. Bend the lock tab into the nut to lock it in place.	
14	Install the bevel gear.	
15	Temporarily install the column on top of the lathe head. Adjust the bevel position according to the appropriate document once the column is installed on the mill head.	