



# INSTRUCTIONS FOR CHANGING THE STROKE

This mill has been assembled on the long stroke at the factory. The advantage of using it on the long stroke is that it pumps more water per stroke.

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## To Change This Mill to the Short Stroke

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1. Turn the large gears until the pitmen are near the bottom of the stroke. (If the pump rod is under load, support the pump rod yoke with a wood block as shown in Fig. 1. A piece the size of the pump pole will do.)
2. Remove cotter pin at one end of No. 522 shaft and push the shaft out from the pitmen, yoke and guide wheel.
3. Turn large gears until lower ends of pitmen are above rim of gear case. Remove cotter pins and No. 622 bolts, and take both pitmen off the gears.
4. Turn the large gears about one-half revolution, or until short stroke bosses are above rim of gear case, so that pitmen can be placed on them. These bosses on the large gears are the ones that are closest to the center of the gears.
5. Place both pitmen on the short stroke bosses, making sure to replace the No. 622 bolts and the cotter pins that hold the lower ends of the pitmen on the large gears.
6. Turn gears until pitmen are near bottom of stroke, as in Fig. No. 2.
7. Replace No. 522 shaft thru lower holes in upper ends of both pitmen, thru pump rod yoke and guide wheel. Be sure to replace cotter pin in No. 522 shaft.
8. After changing the stroke, be sure that the oil ring rolls on the large gear at the bottom of the stroke. Turn the wheel to be sure everything works freely before putting the mill in operation.

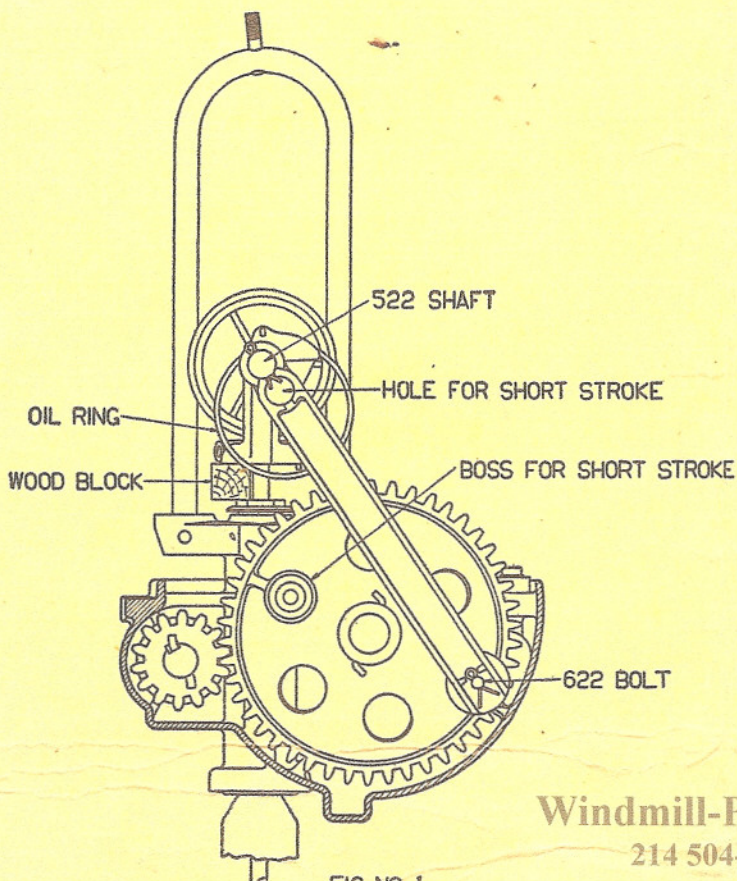


FIG. NO. 1  
MILL SET ON LONG STROKE

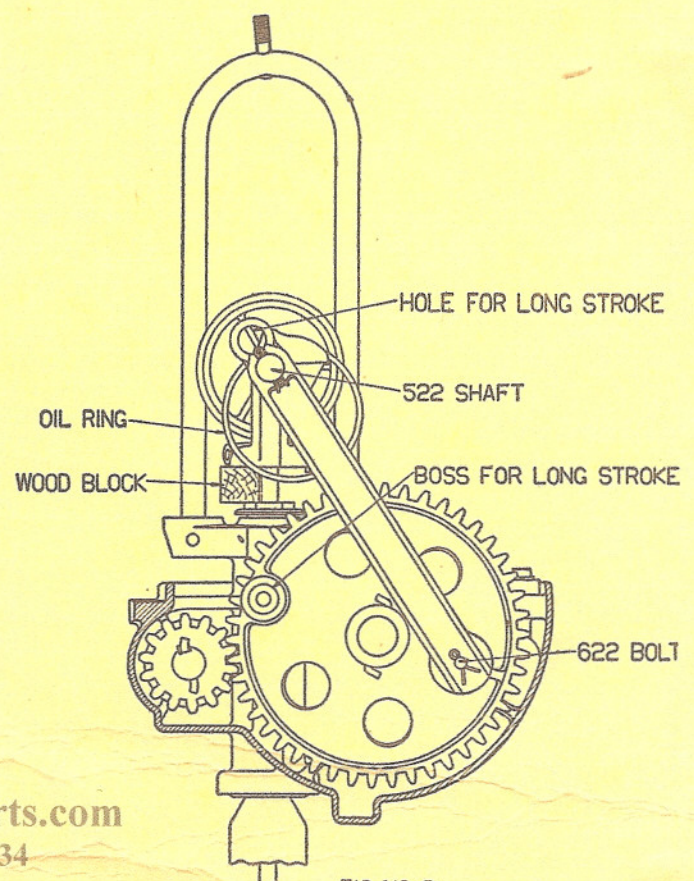


FIG. NO. 2  
MILL SET ON SHORT STROKE

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