Replacing Roller Box Vertical Rollers on the Skybrid Winch

This illustration shows the top half of a roller assembly. To service a roller, undo the nut at the bottom of the bolt and drift it out with the damaged bolt kept with the spare rollers. The roller can now be removed and the bearings knocked out.

Reassembly is as follows:

1. Place a new bearing into one end of the roller
2. Insert the spacer sleeve into the roller
3. Place a second new bearing at the other end of the roller trapping the spacer sleeve loose inside.
4. (It may not be necessary to replace the compression bushes in the roller box flanges, but new ones can be found in the spares box.)
5. Slide the roller assembly between the roller box flanges.
6. Insert a long screwdriver up into the spacer tube and 'jiggle' it until the bolt can be inserted from above
7. Tighten the securing nut onto the bottom of the bolt just sufficiently to push the compression bushes against the inner race of the bearing. The object is to hold the bearing in place without axial load.
   NB: Failing to insert a spacer tube will cause the bearings to seize.

   The procedure for the large rollers is similar.

