

INSTRUCTIONS

M3000 Even-Lok™ Spherical Roller Bearings

At Moline, our goal is to provide you with the most reliable products, helpful service, and expert support. We work to make our instruction sheets clear and easy to understand. But if you have further questions, please feel free to call 800.242.4633 or email support@molinebearing.com. We are here to help.

MOUNTING INSTRUCTIONS

Please Note: Before mounting, make sure there is sufficient clearance to access dismantling set screws on back of unit (yellow plastic protection plugs).

- Do not remove plastic end cap or plastic protection plugs inserted in the set screw holes until you are ready to install bearing onto shaft.
- Do not disassemble bearing prior to installation.
- Do not tighten any mounting screws prior to installation.
- Use only the supplied Even-lok™ wrench for tightening set screws on bearing. After storage or idle period, add a little fresh grease before running.

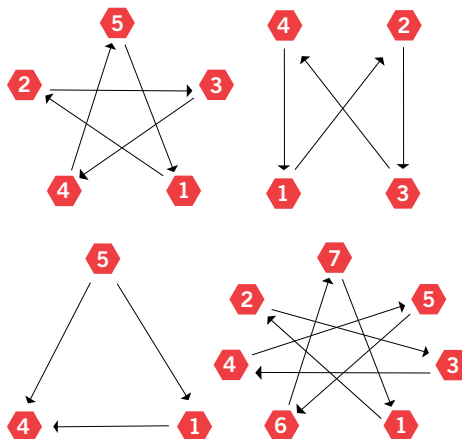
For optimum bearing performance, it is important to start the mounting process with a shaft that is free of burrs and dirt. Please review your shaft and file down burrs and wipe clean the lubricate shaft with light oil. Check shaft diameter and review recommended shaft tolerances below:

SHAFT DIAMETER	TOLERANCE
1-7/16"–1-15/16"	+ .000" to -.003"
2"– 4"	+ .000" to -.004"

- 1 Clean the base of the bearing and support surface on which it rests. Be sure the supporting surface is flat. If the bearing elevation must be adjusted by shims, the shims MUST extend the full length and width of the support surface.

- 2 Slide the bearing, with the mounting side facing outward, on the shaft where the unit is to be secured. Leave 1½" minimum housing spacing to allow for insertion of an Allen wrench in the dismantling side set screws. Bolt the housing securely to the support. Note: The mounting side of the bearing is the side which does not have the yellow plastic protection plugs inserted in the set screw holes.
- 3 The non-expansion bearing must be centered in the housing to allow for axial shaft expansion. Move the bearing axially in the housing in both directions as far as it will go and determine the centered position. It will be necessary to relieve the bearing load while moving the assembly.
- 4 Snug the mounting screws located in the mounting side collar to finger tightness holding the short leg of the supplied Even-lok™ wrench. Tighten the mounting screws a total of ½ turn by alternately tightening in two increments (¼ turn and ¼ turn). Please refer to the following diagram for proper tightening pattern for each bearing size:

M3000 TIGHTENING PATTERNS



- 5 Tighten each set screw until the long end of the Even-lok™ wrench bows ½" under finger pressure. **Caution:** Do not use auxiliary equipment such as a hammer or pipe in tightening the screws.

DISMOUNTING INSTRUCTIONS

- 1 Retighten the mounting side set screws until the long end of the Even-Lok™ wrench bows ½" under finger pressure only.
- 2 Loosen the mounting side set screws 1-2 full turns.
- 3 Using a screw driver or other suitable tool, remove and discard the 2 plastic protection plugs.
- 4 Alternately tighten the dismantling screws in ¼ turn increments until the bearing is released from the shaft. You should hear a distinctive "pop" indicating release.
- 5 Loosen the dismantling set screws, unbolt the housing from the support structure and remove the complete assembled unit from the shaft.

Note: If the bearing unit will not slip off the shaft during removal, do not continue to further tighten the dismount set screws. This may tend to reverse tighten the bearing to the shaft. In the unlikely event that reverse tightening occurs, loosen the dismantling screws and retighten the screws on the mounting collar side following instructions. Repeat the dismantling procedure Steps 2 through 5.

TECHNICAL SUPPORT

Call 800.242.4633, or email at support@molinebearing.com

IMPORTANT NOTICE: Because of the possible dangers to person(s) or property from accidents that may result from the use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation and maintenance operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to ensure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Moline nor are the responsibility of Moline.



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