The Process Floor Bearing Solution Experts

Installing Eccentric Ball Bearings



1. If the bearing part number ends in 4U…**Gx**, bearing is **lubricated with food grade grease**.

Needs grease fitting in order to regularly re-grease.



If the bearing part number ends in any of these letters: 4U…**F,E,B,C,K,P,M,W,Tx,** bearing is **solid lubricated** and **needs NO re-greasing**.

Remove grease fitting and install a setscrew to plug the hole.



2. Inspect the shaft.
- Verify shaft is within tolerance (see chart)
- Repair any burrs with emery cloth, then polish
- Wipe clean



RECOMMENDED SHAFT TOLERANCES
RUNNING BALL BEARINGS

Shaft :	½" to 1.13" 12 to 29 mm	1.18" to 1.94" 30 to 50 mm	2" to 3.13" 51 to 80 mm
Max	+0 inch	+0 inch	+0 inch
Min	-.0006 in/ -.015mm	-.0006 in/ -.015mm	-.0007 in/ -.017mm

3. Inspect the mounting surface that it is flat. Wipe clean.

4. Separate the collar from the bearing.



7. Use drift pin or punch in blind hole of the collar.
- With hammer, strike punch in direction of shaft rotation to lock the inner ring around the shaft.



5. Mount the bearing on the equipment.
- Slip shaft through the bearing.
- Assure it is square in the installation before tightening bolts.
- Use a flat washer.



Tighten bolts not to exceed 300 inch-pounds (25-30 foot-pounds) torque

8. Tighten the collar setscrew to recommended torque rating based on bearing ring size.
This is a secondary lock.

SS SET SCREWS TORQUE LIMIT

½" to 1" shaft	35 inch pounds
1-1/8" to 2"	74 inch pounds
2-1/8" to 3"	155 inch pounds



6. Place the collar on the shaft with cam side facing cam on the bearing. With your hand, turn the collar in the direction of shaft rotation until it catches.



9. If possible, rotate shaft by hand. If shaft does not freewheel, adjust alignment
a) insert inside housing
b) bearing on equipment



Maintenance:

Greased bearings at moderate speeds and load and temperature: re-greasing not required. Higher speed, load, temperature or severe contamination: relubrication is recommended, at least every 2 weeks or more often

Solid lubricated bearings do not require any additional lubrication

Inspect bearings regularly: check condition of seals and other signs of damage.

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1006-J NE 146th Street, Vancouver, Washington 98685-1411 ■ 360-574-7294 ■ edtcorp.com ■ edtsales@edtcorp.com