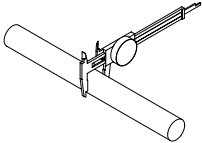
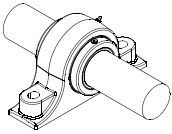


### MOUNTED BEARING INSTALLATION AND LUBRICATION INSTRUCTIONS



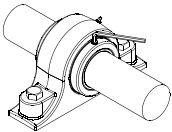
#### STEP 1 - SHAFT PREPARATION

Wipe the shaft clean and remove any burrs that could cause the bearing race to deform when the setscrews are tightened down. Proper shaft diameter is CRITICAL. Check the shaft diameter against the specifications shown in Table 2. Undersized shafting is one of the leading causes of bearing failure. If the shaft is not within the tolerance shown in Table 2, its use may lead to reduced bearing life. Additionally using shafts with hardness greater than HRC 45 will reduce the effectiveness of locking devices.



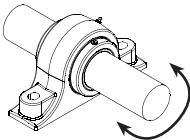
#### STEP 2 - BASE PREPERATION

Make sure that the base of the mounted bearing and support surface are clean and flat. Any unevenness in the surface can interfere with proper bearing alignment and lead to premature failure. Securely fasten the mounted bearing to the support surface using the machinery manufacturer's recommendations.



#### STEP 3 - MOUNTING OF HOUSING

Slide the bearing on the shaft to the desired position. DO NOT use anti-seize style lubricant on the shaft or bearing. Leave the setscrews loose. Secure housing in place with bolts. Use shims where necessary to properly align the bearings.



#### STEP 4 - ECCENTRIC COLLAR TIGHTENING

Place the eccentric collar on the bearing's inner ring and turn in the direction of rotation until the eccentric grooves engage, locking the collar to the bearing. Use a drift or punch in the hole of the collar and drive it with a hammer in the direction of the shaft's rotation. This will help to ensure the lock on the shaft. Tighten the collar's setscrew using the torque recommended in Table 1.

#### STEP 5 - CHECK ALIGNMENT

Turn bearings by hand. The effort required to turn the bearing should be the same before and after tightening to the housing support.

Table 1 - Set Screw Torque Table

Shaft Size	Set Screw Size	Tightening Torque (in-lbs)
1 7/16" - 2 1/4"	3/8"-24	325
2 7/16" - 3 7/16"	1/2"-20	680
3 15/16"	5/8"-18	1330

Table 2

Shaft Diameter	Shaft Tolerance
1 7/16" - 2 1/2"	+0.000" -0.001"
2 11/16" - 3"	+0.000" -0.0012"
3 7/16" - 4"	+0.000" -0.0014"

**If all the steps above have been followed, the bearing mounting is complete.**

## ECCENTRIC COLLAR REMOVAL INSTRUCTIONS

Loosen the setscrew in the collar. Use a drift or punch in the hole of the collar and drive it with a hammer in the opposite direction of the shaft's rotation. Once the collar is loose, slide it away from the bearing. Remove any burrs from the setscrew before unmounting. Unbolt the housing from the support surface. Often the bearing will adhere to the shaft. In this situation, use a bearing puller or hammer and drift to remove the bearing. Check for proper shaft fits (shown in Table 2) and damage prior to the next installation.

## RELUBRICATION INSTRUCTIONS

Turner Mounted Tapered Roller Bearings will come from the factory with pre-installed Shell Gadus S2 V220 2 at 1/3 fill (Lithium 12 Hydroxy-based grease). For relubrication intervals follow the guidelines below.

- 1) Determine the maximum allowable RPMs of your bearing in the MAX RPMs chart below.
- 2) Determine the percentage of maximum RPMs at which your bearing will operate.
- 3) Use the Lubrication Interval Chart to determine your relubrication intervals in weeks.

Table 3 - Max RPMs (Per shaft dia.)

Shaft Dia.	Max RPMs
1-7/16"	3,600
1-15/16" - 2"	3,050
2-3/16"	2,730
2-1/4" - 2-1/2"	2,420
2-11/16" - 3"	2,060
3-3/16" - 3-1/2"	1,640
3-15/16"	1,530

\* Limiting speeds shown are based on bearing size and internal geometry. Seal type may further limit maximum speed.

Table 4 - Lubrication Intervals by Bearing Speed Chart (in weeks)<sup>1</sup>

Environment	Speed (RPMs)		
	<25% of Max	25%-75% of Max	>75% of Max
Clean (ideal)	52 weeks	8 weeks	2 weeks
Moderate Exposure	4 weeks	2 weeks	Monitor <sup>2</sup>
Extreme Exposure	1 weeks	1 weeks	Monitor <sup>2</sup>

<sup>1</sup> Based on 8 hrs. per day operation

<sup>2</sup> Monitor bearing for signs of overheating

**Examples:**

- A 1 15/16" sized bearing running at 1750 RPMs is running at 57% of max RPM.  $(1750/3050 = .573)$ ; or 57%
- A 3" sized bearing running at 1750 RPMs is running at 85% of max RPM.  $(1750/2060 = .849)$ ; or 85%

For additional Engineering and Lubrication information, consult the Turner Mounted Roller Bearing Catalog

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