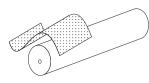
2000 Series Installation Guide



Spherical Roller Bearings Collar Mounted Units JA, JE, JYR, JYRP, JN, JT

Step 1.

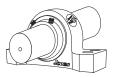


Check shaft diameter.* Remove any burs on shaft with an emery cloth or fine file.

Step 2.

Make sure housing and support surface are clean and flat. Adjust elevations and shim if required.

Step 3.



Position shaft into block and align to correct location . Bolt housing securely to mounting surface.

Step 4.

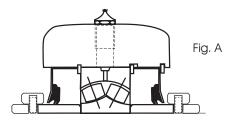


Tighten each of the set screws alternately with an Allen wrench until they stop turning and the wrench starts to spring. The spring in the wrench is more easily seen when using an extension.

	Shaft Sizes	Set Screw	Torque	Permissible
		number size	-	Axial Load
	ln		In-Ibs	lbs
	1 7/16 to 2 3/16	(2) 3/8" -24	250	515
	2 7/16 to 3 1/2	(2) 3/8" -20	620	900
;	3 11/16 to 4	(2) 5/8" -18	1325	1200
	4 7/16 to 4 15/16	(4) 5/8" - 18	1325	2400

**CAUTION: Proper tightening of set screws is required to achieve adequate bearing service live and axial location avidity.

NON EXPANSION UNIT



Fixed Unit

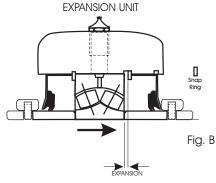
All bearings are shipped from factory as fixed units unless otherwise specified.

* Recommended Shaft Tolerances

SHAFT SIZE	Tolerances	
(inches)	(inches)	
1/2 to 1 15/16	+.0000/0005	
2 to 3 1/8	+.0000/0010	
3 3/16 to 5	+.0000/0015	

Step 5.

Jones Bearings are shipped from the factory as <u>non expansion</u> units. Most power transmission applications for mounted roller bearings do not require expansion units. However, in the event that expansion capability is required, all Jones 2000 Series mounted bearings can be easily converted to expansion units after installation by removing the backside snap ring. (see Fig. B)



Expansion Unit

Remove Snap Ring "S" to make unit expansion type (when required).

Bearing Bore Tolerances

SHAFT SIZE	Tolerances	
(inches)	(inches)	
11/8 to 1 7/16	+.0010/0000	
1 ½ to 3	+.0010/0000	
3 3/16 to 3 15/16	+.0020/0000	
4 to 5	+.0020/0000	

Lubrication Guide



Spherical Roller Bearings Collar Mounted Units JA, JE, JYR, JYRP, JN, JT



Method

All Jones Mounted Units are shipped pre-lubircated with enough grease for initial operation. Units are also supplied with a grease fitting for relubrication. It is recommended that bearings be lubricated while running. Caution should be used with high pressure grease guns or automatic lubrication equipment where high pressure could blow out or damage seals.

Type of Grease

All mounted units come with a lithium soap based grease, NLGI 2 consistency. In general, this type of grease is good for temperatures up to 200° F. This type of grease is very common and readily available from local suppliers. Consult Jones for high temperature or special application lubrication. Both frequency and quantity of lubrication are very important and can vary depending on speed or environment. Consult charts below for specific application information.



Speed	Temperature	Environment	Frequency
100 Rpm 500 Rpm 1000 Rpm 1500 Rpm All Speeds All Speeds All Speeds All Speeds	- 125 F - 150 F - 200 F + 150 F - 150 F + 150 F All All	Clean Clean Clean Dusty Dusty Very Dirty Hostile	4 Months 2 Months 2 Weeks Weekly 1 to 4 Weeks Daily to Weekly Daily to Weekly Daily to Weekly

Lubrication Frequency Guidelines

The frequency of lubrication depends on the application and envisionment. This chart provides general guidelines for the lubrication rate of Jones bearings. Although it is generally an adequate guide for grease lubrication, these rates can vary depending on other circumstances like moisture or chemicals present, or with the type of grease selected for various applications.

Recommended Relubrication

The table at right gives the rate of relubrication for Jones mounted bearings as supplied with NLGI grade 2 grease and operating within the temperature range of -30° F to $+200^{\circ}$ F. Bearings should be relubricated while running for even distribution. Seals are designed to be grease purge able under low pressure application. Excess grease should be allowed to collect at the seasl for extra protection against contaminants. Consult Jones for special seals or applications where excess moisture, corrosion, or extreme conditions exist .

Shaft Size	Grease Rate
(inches)	(ounces)
1 3/8 to 1 7/16	.22
1 ½ to 1 11/16	.32
1 ¾ to 2	.50
2 to 2 3/16	.55
2 ¼ to 2 ½	.65
2 11/16 to 3	.85
3 3/16 to 3 ½	1,25
3 15/16 to 4	2.50
4 7/16 to 4 ½	3.10
4 ½ to 4 15/16	4.00