Stainless Steel Mounted Bearings (SSUP/SSHC/SSUFL/SSUC Series)

Service & Installation Instructions

P-3056-BG

Boston® Gear

An **Altra Industrial Motion** Company

⚠WARNING Avoid the drive from unexpected starts by turning off and locking out/tagging out the power source before proceeding. Failure to observe these precautions could result in bodily injury.

⚠CAUTION The shaft must be clean, straight and free from rough spots and burrs, for best results use turned and ground shafting. If old shafting is used, mount the bearing unit on a smooth unworn section if possible. For maximum bearing life, the bearing should have a snug fit to the shaft. Running a new bearing on a shaft that is more than .002" under the nominal size could cause the bearing to slip on the shaft and fail prematurely.

Installation

1. Clean shaft and bearing bore thoroughly. Measure shaft size and confirm it is within tolerance. File flats on shaft at setscrew locations to allow for easy removal of bearing. Anti-seize products should be used sparingly if at all.
2. Slip bearing into position and make sure that the bearing is not located on a worn section of the shaft. For tighter shaft fits, tap inner ring face only with a soft driver. Do not hammer on the housing.
3. The bearing outer ring OD is spherical and swivels in the housing to accommodate misalignment. Snug mounting bolts and use shaft to swivel each bearing until its final position is in the center of free movement top to bottom, as well as side to side. Pass shaft through both bearings without forcing. This will prevent preloading of the bearings. Housing slippage depends on the mounting bolt tightening torque, number of bolts and friction characteristics between mounting surfaces. Auxiliary load carrying devices are advisable for side or end loading of pillow blocks and radial loads for flange units where normal to heavy loading or shock loading is encountered.
4. Use large flat washers as necessary and tighten mounting bolts to proper torque. Turn shaft by hand. Shaft rotation resistance should be the same as before full tightening of mounting bolts.
5. For setscrew mounted bearings: After final alignment of the shaft, tighten both setscrews hand tight, then the setscrews should be tightened alternately and in small increments to the torque specified in Table 1. After 24 hours operation, the setscrews should be retightened to the torque in Table 1 to assure full locking of the inner race to the shaft. Care should be taken that the hex key or driver is in good condition with no rounded corners and the hex key is fully engaged in the setscrew and held square with the setscrew to prevent rounding out of the setscrew socket when applying maximum torque.
6. For eccentric collar mounted bearings: Slide collar against cam end of inner race. Use a punch in the hole provided in the collar, tap collar lightly in the direction of shaft rotation. Once the collar stops rotating relative to the shaft, tighten setscrews to proper torque (Table 1).

Table 1. Setscrew Tightening Torque

Setscrew Size	Torque (in-lb)	Applicable Parts
1/4-28	54	SSUP4-xx … SSUP6-xx
		SSHP4-xx … SSHP6-xx
		SSUFL4-xx … SSUFL6-xx
		SSUF4-xx … SSUF6-xx
5/16-24	110	SSUP7-xx
		SSHP7-xx
		SSUFL7-xx
		SSUF7-xx

Lubrication

These bearings are pre-filled with NSF H1 food grade grease. When re-lubricating, the grease with thickener must be compatible with the initial NSF grease fill. Using grease types that are not compatible may cause the oil to separate from the grease and cause premature bearing failure. For maximum bearing life, regular re-lubrication with small amounts of grease at low pressure is recommended (Table 2). Environmental conditions such as high pressure wash down or dirty environments may require the bearing grease to be purged on a regular basis.

Table 2. Lubrication Guide

Suggested Lubrication Period in Weeks								
Usage (hours per day)	Up to 250 RPM	250 to 500 RPM	500 to 750 RPM	750 to 1000 RPM	1000 to 1500 RPM	1500 to 2000 RPM	2000 to 2500 RPM	2500 to 3000 RPM
8	12	12	10	7	5	4	3	2
16	12	7	5	4	2	2	2	1
24	10	5	3	2	1	1	1	1

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