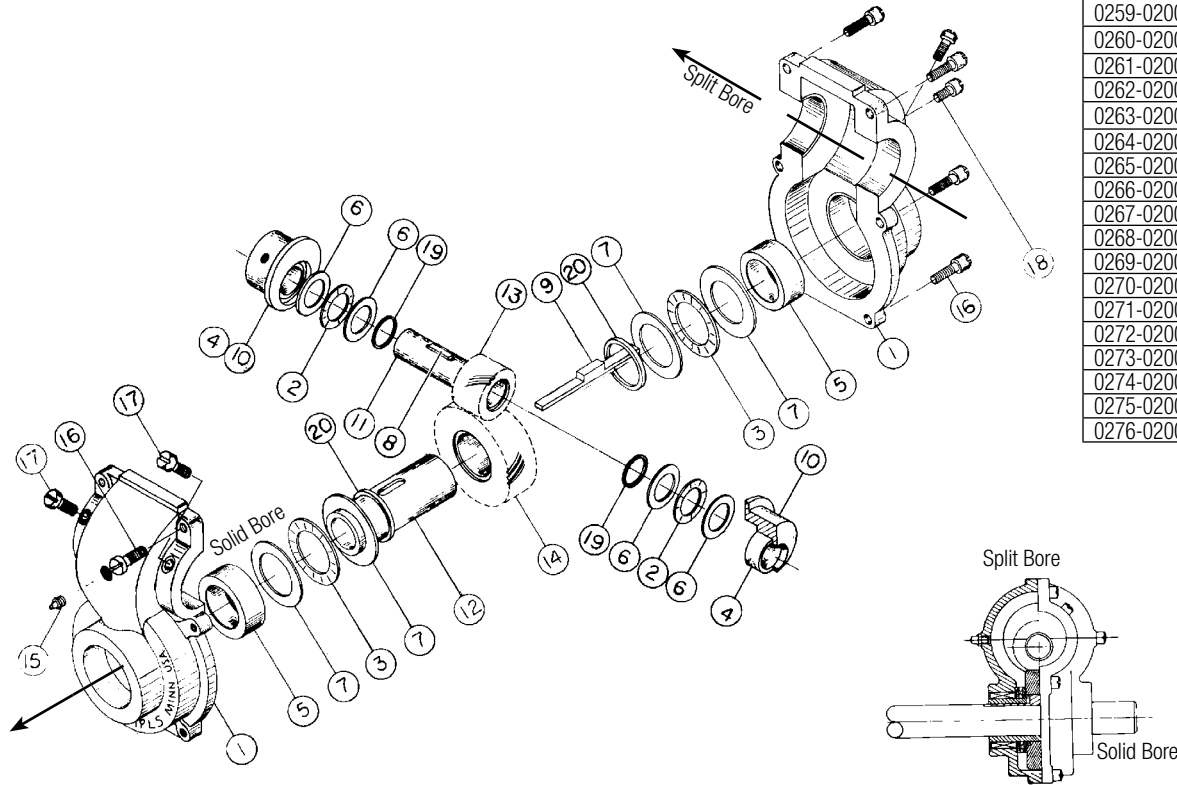


FLOAT-A-SHAFT® Standard Series – 2:1 Ratio

Standard – High Torque, Roller Bearing

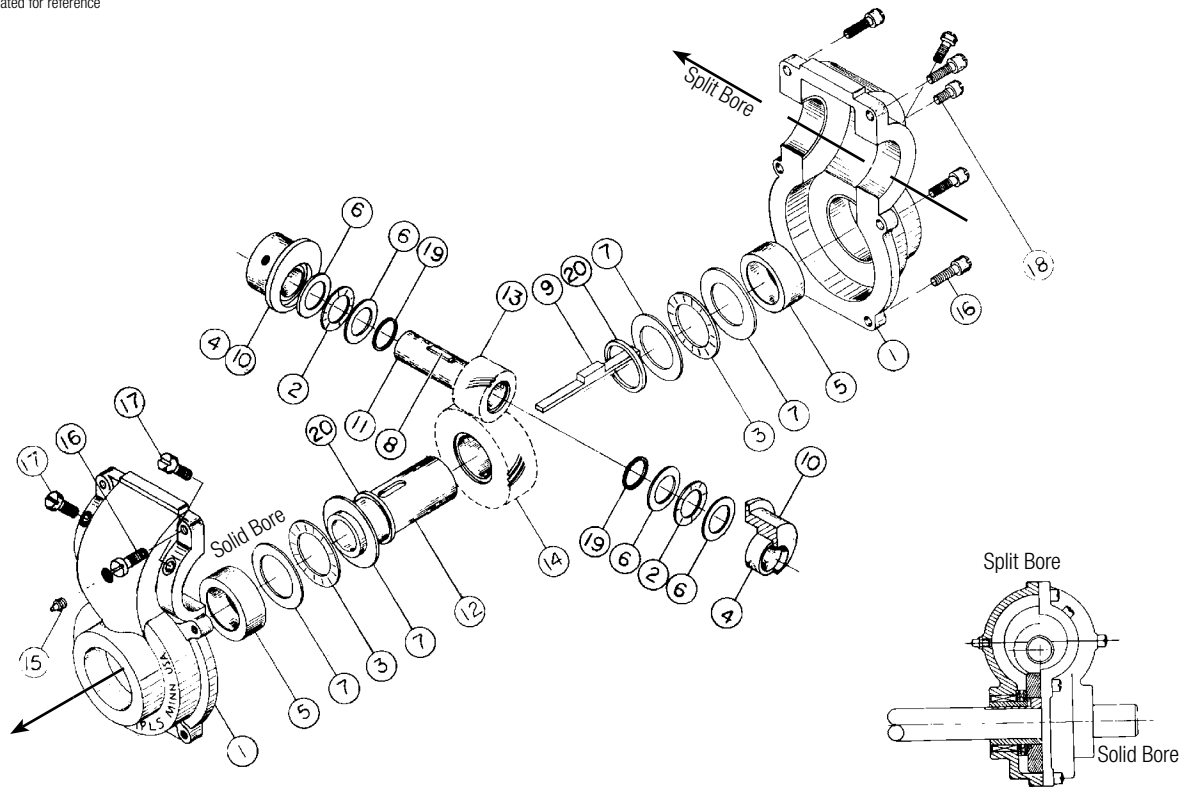


MODEL	R/LH	BORES
0259-0200	RH	1/2" X 3/4"
0260-0200	LH	1/2" X 3/4"
0261-0200	RH	1/2" X 1"
0262-0200	LH	1/2" X 1"
0263-0200	RH	1/2" X 1-1/4"
0264-0200	LH	1/2" X 1-1/4"
0265-0200	RH	5/8" X 3/4"
0266-0200	LH	5/8" X 3/4"
0267-0200	RH	5/8" X 1"
0268-0200	LH	5/8" X 1"
0269-0200	RH	5/8" X 1-1/4"
0270-0200	LH	5/8" X 1-1/4"
0271-0200	RH	3/4" X 3/4"
0272-0200	LH	3/4" X 3/4"
0273-0200	RH	3/4" X 1"
0274-0200	LH	3/4" X 1"
0275-0200	RH	3/4" X 1-1/4"
0276-0200	LH	3/4" X 1-1/4"

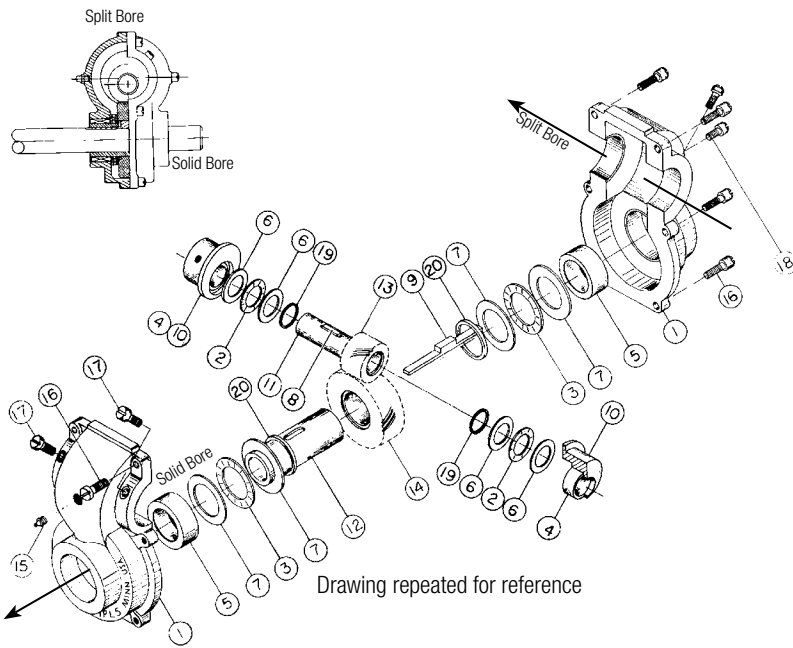
QUANTITY

ITEM	PART NO.	DESCRIPTION	0259-0200	0260-0200	0261-0200	0262-0200	0263-0200	0264-0200	0265-0200	0266-0200	0267-0200	0268-0200	0269-0200	0270-0200	0271-0200	0272-0200	0273-0200	0274-0200	0275-0200	0276-0200
1.	0240-9003	GEAR CASE HOUSING	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.	0200-1214	BEARING, THRUST, 7/8" BORE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3.	0200-1222	BEARING, THRUST, 1-3/8" BORE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4.	0200-1527	BEARING, NEEDLE, ROLLER, 7/8" BORE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5.	0200-1526	BEARING, NEEDLE, ROLLER, 1-3/8" BORE	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6.	0200-1317	WASHER, THRUST, 7/8" BORE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
7.	0200-1326	WASHER, THRUST, 1-3/8" BORE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
8.	0200-1500	KEY, STEP, 1/4" X 5/16"					1	1				1	1						1	1
8.	0200-1501	KEY, STEP, 1/4" X 7/16"			1	1					1	1					1	1		
	0200-1502	KEY, STEP, 3/16" X 1/2"	1	1					1	1					1	1				
9.	0200-1513	KEY, STEP, 3/16" X 1/4"													1	1	1	1	1	1
	0200-1515	KEY, STEP, 1/4" X 1/4"							1	1	1	1	1	1						
	0200-1517	KEY, STEP, 1/8" X 5/16"	1	1	1	1	1	1												
10.	0275-7709	BUSHING, STEEL, ECCENTRIC	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0200-3539	BUSHING, STEEL, 1/2" BORE	1	1	1	1	1	1												
11.	0200-3540	BUSHING, STEEL, 5/8" BORE							1	1	1	1	1	1						
	0200-3541	BUSHING, STEEL, 3/4" BORE													1	1	1	1	1	1
	0200-3525	BUSHING, SLEEVE, STEEL, 3/4" BORE	1	1					1	1					1	1				
12.	0200-3526	BUSHING, SLEEVE, STEEL, 1" BORE			1	1					1	1					1	1		
	0200-3519	BUSHING, SLEEVE, STEEL, 1-1/4" BORE					1	1					1	1					1	1
	0200-1106	GEAR, 15 T, LH, 7/8" BORE		1		1		1		1		1		1						
	0200-2106	GEAR, 15 T, RH, 7/8" BORE	1		1		1		1		1		1							
13.	0200-1104	GEAR, 15 T, LH, 7/8" BORE														1		1		1
	0200-2104	GEAR, 15 T, RH, 7/8" BORE													1		1		1	

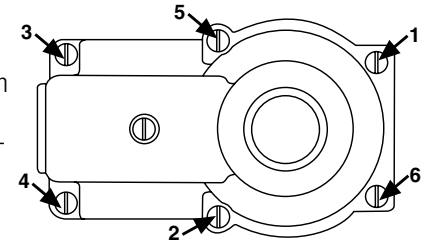
Drawing repeated for reference



ITEM	PART NO.	DESCRIPTION	QUANTITY																
			0259-0200	0260-0200	0261-0200	0262-0200	0263-0200	0264-0200	0265-0200	0266-0200	0267-0200	0268-0200	0269-0200	0270-0200	0271-0200	0272-0200	0273-0200	0274-0200	0275-0200
14.	0200-1121	GEAR, 30 T, LH, 1-3/8" BORE		1					1						1				
	0200-2121	GEAR, 30 T, RH, 1-3/8" BORE	1					1						1					
	0200-1137	GEAR, 30 T, LH, 1-3/8" BORE			1		1				1	1	1				1	1	1
	0200-2137	GEAR, 30 T, RH, 1-3/8" BORE			1	1				1	1	1				1	1	1	1
15.	0100-1601	ZERK GREASE FITTING, 1/4-28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16.	0200-1812	SCREW, FILL HD, 1/4-20	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
17.	0200-1557	SCREW, FILL HD, 1/4-20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
18.	0100-2604	SCREW, FILL HD, 1/4-28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19.	0200-1331	SPACER, PL, NYLON RING, .09" THICK	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
20.	0200-1332	SPACER, PL, CELON RING, .09" THICK	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2



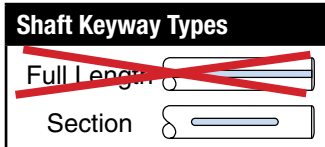
Gear (13) over the Sleeve Bushing (11) positioning it over Key (8). Install Plastic Spacer (19) on both sides of gear. Lubricate all bearings and the gear manually (See "Lubrication"). Install a Thrust Washer (6), Thrust Bearing (2), and Thrust Washer (6) on each side of gear. Insert a Roller Bearing (4) into the Eccentric Bushing (10) and install on each side of gear. Lay the completed assembly into the split bore of the Gear Case Housing (1), making sure the teeth of the gears mesh. **CAUTION:** When trying to get the gears to mesh, rotate the gears to prevent possible damage to the teeth. Next, cover gears and bearings with approximately 3 oz. of lubricant. To complete assembly, install the other half of the Gear Case Housing (1) and tighten the Screws (16) in the order shown here. In case of shaft binding, check for possible misalignment of the shafts or for oversized shaft diameters.



Installation

Keyway **MUST** extend to end of shaft. IT IS NOT POSSIBLE TO USE A SECTIONED SHAFT WITH A ROLLER BEARING FLOAT-A-SHAFT. Without removing the plastic tubes, align the Float-A-Shaft® with the shaft on which it is to be used and gently press it on. Be sure the key is properly aligned with the keyway. The plastic tubes will fall out as the shaft extends through the unit. Save the plastic tubes for removal of the Float-A-Shaft® for maintenance or repair. Be sure to reinsert the plastic tubes as the shaft is withdrawn, otherwise the internal parts will slip out of position and disassembly may be required to restore proper alignment.

Reassembly: Reference the numbering diagram on page 1 to complete the following instructions, matching the numbers with corresponding bores.



SOLID BORE REASSEMBLY: Lay Gear Case Housing (1) horizontal, with inside surface facing up. Install Roller Bearing (5) in solid bores of Gear Case Housing (1). Press from inside to outside. Inside face of roller bearing must be flush with inside machined surface of gear case housing. Next, Insert Key (9) into slot of Sleeve Bushing (12) and insert the plastic tube to hold it in place. Install Gear (14) over the Sleeve Bushing (12) positioning it over Key (9). Install Plastic Spacer (20) on both sides of gear. Lubricate Roller Bearing (5), Thrust Bearing (3), and Gear (14) manually (See "Lubrication"). Install a Thrust Washer (7), Thrust Bearing (3), and Thrust Washer (7) on each side of gear. Lay the Gear Case Housing (1) horizontal, with the solid bore vertical and inside surface facing up. Install gear, sleeve and bearing assembly into the solid bore.

SPLIT BORE REASSEMBLY: Insert Key (8) into slot of Sleeve Bushing (11) and insert the plastic tube to hold it in place. Install

Shaft Requirements: Shafts should be made of power transmission steel grade 4140 or better. A tolerance of $+.000/- .002$ is recommended for the shaft diameters. The shaft surfaces should be 32 RMS maximum for stationary applications, and 16 RMS maximum for traversing applications. Shaft straightness should be $.0015$ TIR per foot.

LUBRICATION AND MAINTENANCE SCHEDULE: All Float-A-Shaft® gear boxes have been lubricated at the factory with Mobilith® SHC 460. Standard Float-A-Shaft® gear boxes are initially filled with 2.8 oz. (82.8 ml) of grease to achieve 54% fill on the units. However, units require more lubrication prior to operation. Periodic re-lubrication is also necessary for optimum performance. When re-lubricating, inject Mobilith® SHC 460 (maximum operating temperature of 300°F or higher and EP rated) into gear case, as required, via the grease zerk provided. *Mobilith® SHC 460 - 14 oz grease cartridge • P/N 0100-1605*

Lubrication and maintenance schedules are dependent on the application. General guidance is provided below and a maintenance plan can be developed based on the use case.

MAINTENANCE	USE CASE		
	Continuous/ Heavy Duty	Intermittent/ Light Duty	Minimal
Inject 1/4 oz. of Mobilith SHC460 into gear housing	1 1/2 Months	3 Months	6 Months
Disassemble and purge unit. Hand lubricate all bearings and gears with 3 oz. of Mobilith SHC460	6 Months	1 Year	1 Year

Mobilith® SHC 460 is a registered trademark of Exxon Mobil Corporation, www.mobil.com
Float-A-Shaft® is a registered trademark of Tolomatic, Inc.



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