

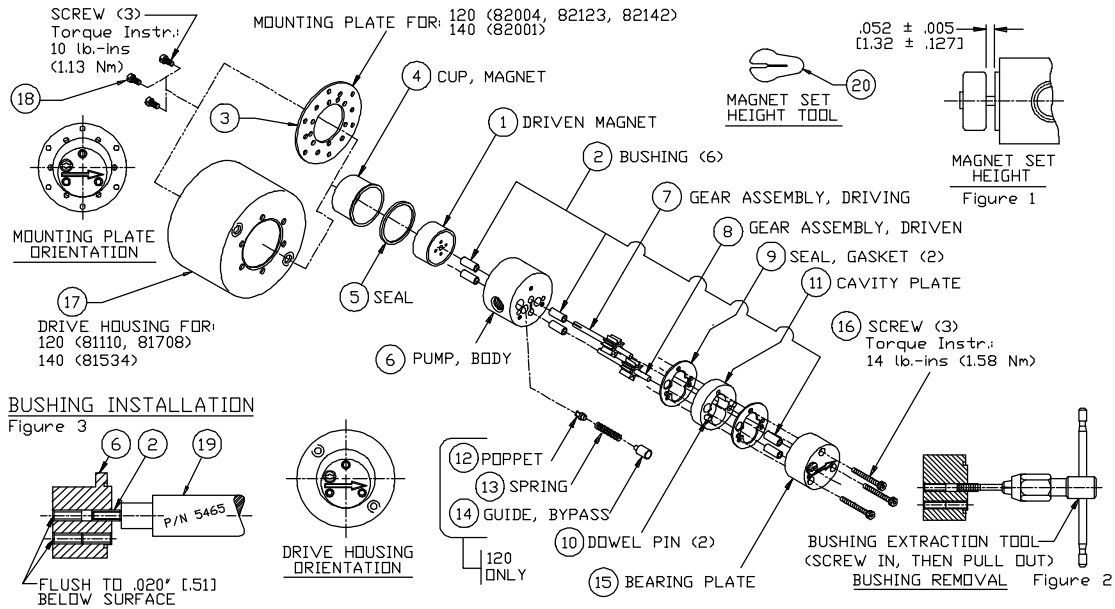


PART NUMBER: 5470

REVISION			
LTR.	DESCRIPTION	DATE	BY
D	REVISED PER ECN-3951	1/22/96	DPM

SERVICE INSTRUCTIONS:

MOD: 120,140



GENERAL:

1. All service work should be performed in a clean area.
2. Care should be taken to avoid scratching any sealing surfaces or allowing metal chips to come in contact with the Driven Magnet Assembly.
3. An even, light coat of high vacuum silicone grease (Dow Corning or equiv.) should be applied to all seals or O-Rings.
4. O-Rings with chamfers should always be installed with the chamfer up, away from the groove.
5. All assembly screws should be tightened evenly and in an alternating pattern.
6. Only Micropump factory authorized replacement parts should be used when servicing any Micropump products.

SPECIFIC:

1. Remove old Bushings (2) with an Extraction Tool. The use of a #8 or M4 tap with T-handle is recommended. (See Figure 2)
2. New Bushing installation is a press fit. Install using Bushing Insertion tool (19). (See Fig. 3)
3. The first Bushings should be installed into the Pump Body (6) from the gear side. These Bushing should be inserted to .020 inch (.51mm) below seal surface. Then two bushings should be inserted into the Pump Body from the Driven Magnet (1) side. The remaining two bushings insert into the Bearing Plate (15).
4. Next install Gears (7) & (8) and Driven Magnet (1). Set Driven Magnet height from Pump Body (6) pilot as shown in Figure 1 using Magnet Set Height Tool (20) between Pump Body (6) and Driven Magnet (1), press Driven Magnet (1) down until it touches the Magnet Set Height Tool.
5. Driven Magnet and Gears must rotate freely - tight Bushings may be reamed with a #30 reamer.
6. Install Parts (9) - (16) in order, then complete rest of assembly, items (3) - (5).

MICROPUMP, INC.

A Unit of IDEX Corporation

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MICROPUMP LIMITED

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SPARE PARTS LIST

FOR GEAR PUMP MODEL 120, 140

PART NO. 120 (81110, 82004, 81708, 82123, 82142) 140 (81534, 82001)

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSEMBLY
1	80071	DRIVEN MAGNET	3
2	4913	* BUSHING	6
3	2301	PLATE, MOUNTING (82001, 82004, AND 82142 ONLY)	1
4	3279	CUP, MAGNET	1
5	2619	SEAL, O-RING	1
6	5437	PUMP BODY (81110, 82004, 82123, 82142 ONLY)	1
6	5444	PUMP BODY (81534, 82001 ONLY)	1
6	4207	PUMP BODY (81708 ONLY)	1
7	80385	* GEAR ASSEMBLY, DRIVING	1
8	80386	* GEAR ASSEMBLY, DRIVEN	1
9	3613	* SEAL GASKET (82142 ONLY)	2
9	4188	* SEAL GASKET (82123 ONLY)	2
9	5369	* SEAL GASKET (81110, 82004, 81708, 81534, 82001 ONLY)	2
10	4218	DOWEL PIN	2
11	6059	CAVITY PLATE	1
12	4513	POPPET, BYPASS (81110, 82004, 81708, 82123, 82142 ONLY)	1
13	1098	SPRING, BYPASS (81110, 82004, 81708, 82123, 82142 ONLY)	1
14	4959	GUIDE, BYPASS (81110, 82004, 81708, 82123, 82142 ONLY)	1
15	80491	BEARING PLATE (81110, 82004, 81708 82123, 82142 ONLY)	1
15	4971	BEARING PLATE (81534, 82001 ONLY)	1
16	4225	SCREW (BEARING PLATE)	3
17	5508	HOUSING (81534, 81110, 81708, 82123 ONLY)	1
18	795	SCREW (DRIVE HOUSING, MTG. PLATE)	3
19	5465	BUSHING INSERTION TOOL	
20	6009	MAGNET SET HEIGHT HEIGHT TOOL (INCLUDED IN SERVICE KIT)	
	81051	GEAR SERVICE KIT	
	81436	GEAR SERVICE KIT (82123 ONLY)	
	80907	GEAR SERVICE KIT (82142 ONLY)	
	4973	BYPASS ADJUSTING WRENCH	
		(INCLUDED WITH ALL BYPASS STYLE PUMPS)	
		* PARTS AVAILABLE IN GEAR SERVICE KIT ONLY	

Prices subject to change without notice.

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