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TECHNOLOGY GROUP

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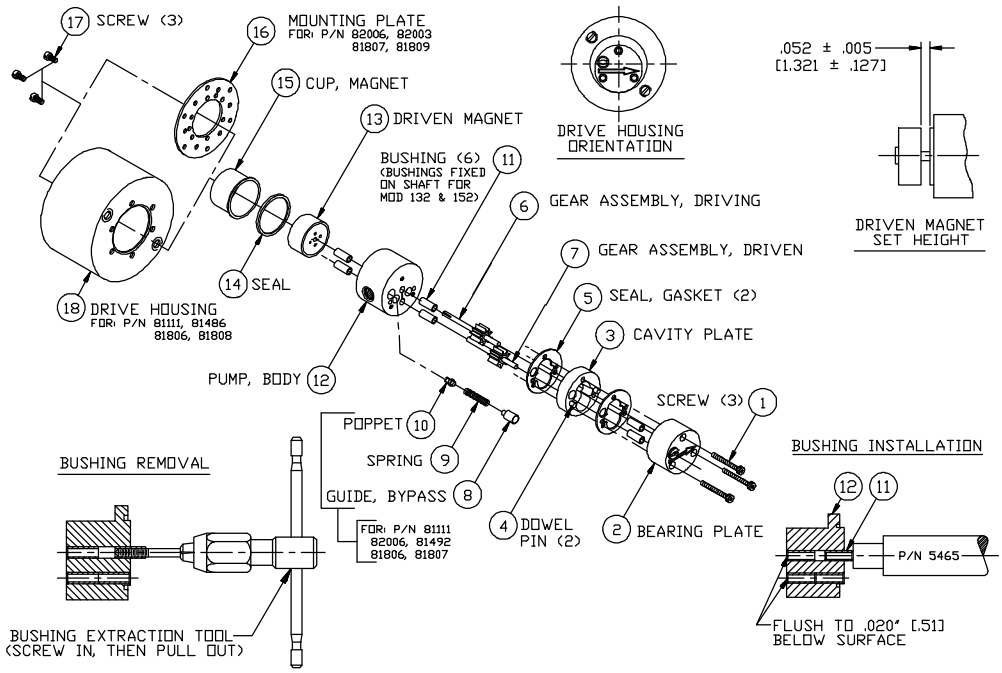
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PART NUMBER:	5838

REVISION			
LTR.	DESCRIPTION	DATE	BY
C	REVISED PER ECN-3951	1/26/96	DPM

SERVICE INSTRUCTIONS:

MOD: 122, 132, 142, 152



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(11) with Extraction Tool. The use of a #8 or M4 tap with T-Handle is recommended (See Figure 3.).
2. New Bushing installation is a press fit. Install using P/N 5465 tool. (See Figure 4.)
3. The first two Bushings should be installed into the Pump Body (12) from the gear side. These Bushings should be inserted to .020 inch (.51mm) below seal surface. Then two bushings should be inserted into the Pump Body from the Driven Magnet (13) side. Also, install two Bushings in the Bearing Plate (2).
4. Next install Gears (6) & (7) and Driven Magnet (13). Set Driven Magnet height from Pump Body (12) pilot, as shown in Figure 2, using P/N 6009 Magnet Set Height Tool between Pump Body (12) and Driven Magnet (13), press Driven Magnet (13) 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 (1) - (5) in order, then complete rest of assembly.

MICROPUMP, INC.
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MICROPUMP LIMITED
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SPARE PARTS LIST

FOR GEAR PUMP MODEL 122, 132, 142, 152

PART NO. 152 (81808, 81809), 132 (81806, 81807), 142 (81486, 82003), 122 (81111, 82006, 81492)

ITEM NO.	PART NO.	DESCRIPTION	UNITS PER ASSEMBLY
1	4226	SCREW	3
2	80491	BEARING PLATE (81111, 82006, 81492, 81806, 81807 ONLY)	1
2	4971	BEARING PLATE (81486, 82003, 81808, 81809 ONLY)	1
3	4355	CAVITY PLATE	1
4	4360	DOWEL PIN	2
5	5369	* SEAL - GASKET	2
5	4188	* SEAL - GASKET (P/N 81492 ONLY)	2
6	80950	* GEAR ASSY, DRIVING (81111, 82006, 81492, 81486, 82003)	1
7	80951	* GEAR ASSY, DRIVEN (81111, 82006, 81492, 81486, 82003)	1
8	4959	GUIDE, BYPASS (81111, 82006, 81492, 81806, 81807 ONLY)	1
9	5058	SPRING, BYPASS (81111, 82006, 81492, 81806, 81807 ONLY)	1
10	4513	POPPET	1
11	4913	* BUSHING (81111, 82006, 81492, 81486, 82003 ONLY)	6
12	5437	PUMP BODY (81111, 82006, 81492, 81806, 81807 ONLY)	1
13	80071	MAGNET ASSEMBLY, DRIVING	1
14	2619	SEAL, O-RING	1
15	3279	CUP, MAGNET	1
16	2301	PLATE, PUMP MOUNTING (82003, 82006, 81807, 81809)	1
17	795	SCREW	3
18	5508	HOUSING (81111, 81492, 81486, 81806, 81808 ONLY)	1
	82131	GEAR SERVICE KIT (81111, 82006, 81486, 82003 ONLY)	
	82141	GEAR SERVICE KIT (81492 ONLY)	
	81810	GEAR SERVICE KIT (81806, 81807, 81808, 81809)	
	5465	BUSHING INSERTION TOOL (81111, 82006, 81492, 81486, 82003,	
	6009	MAGNET SET HEIGHT TOOL	

Prices subject to change without notice.

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