

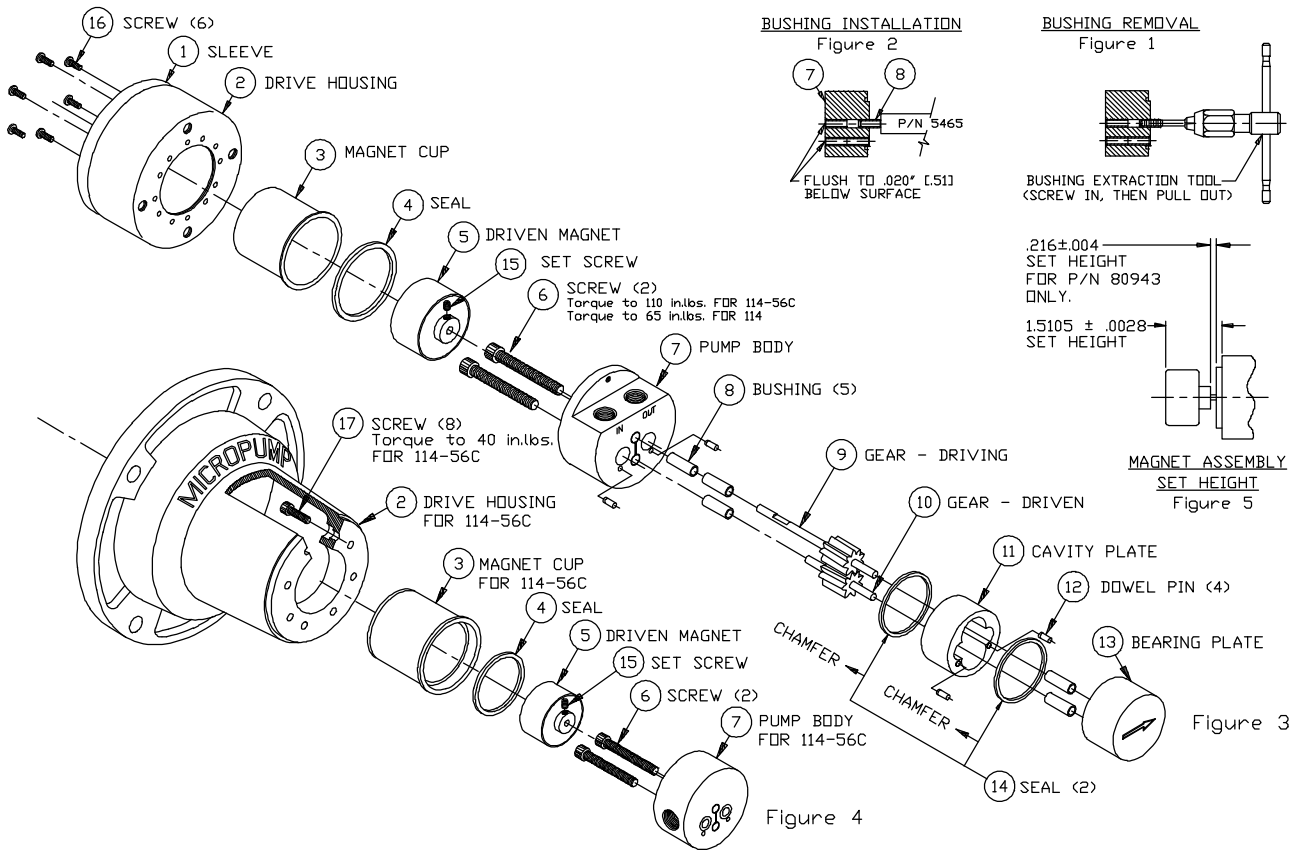


PART NUMBER: 5479

REVISION			
LTR.	DESCRIPTION	DATE	BY
C	REVISED PER ECN-3951	10/31/96	D.M.S.

SERVICE INSTRUCTIONS: `

MOD: 114/114-56-C



**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 silicon compound (Dow Corning or equivalent) should be applied to all seals or O'Rings.
4. O'Rings with chamfers should always be installed with 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 (8) with Extraction Tool. The use of a #8 or M4 tap with T-Handle is recommended (See Figure 1.)
2. New Bushing installation is a press fit. Install using P/N 5465 Tool. (See Figure 2.)

**MICROPUMP, INC.**

A Unit of IDEX Corporation

PO Box 8975, Vancouver, WA 98668-8975 • Phone: 360/253-2008 • Fax: 360/253-8294

**MICROPUMP LIMITED**

A Subsidiary of Micropump, Inc.

Forge Close, Eaton Socon, St. Neots, Cambridgeshire, PE 19 3TP England, • Phone: (44) (0) 1480-219844 • Fax: (44) (0) 1480-476959

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3. The first two Bushings should be installed into the Pump Body (7) from the gear side. These Bushings should be inserted to .020 inch (.51 mm) below seal surface. The remaining two Bushings should be inserted into the Pump Body from the Driven Magnet (5) side.
4. Next install Seal (14) and Dowel Pin (12) each in the Cavity Plate (11) and Bearing Plate (13). Face Seal (14) chamfer away from O-Ring groove.
5. Assemble Gear Driving (9) and Gear Driven (10) into Pump Body (7) as shown. Then carefully assemble Cavity Plate (11) and Bearing Plate (13) to Body (7) and Gear Assembly. Take care not to punch Seals (14) during assembly.
6. Secure the assembly with 2 Bolts (6). Torque Bolts (6) to 65 in.lbs. on Model 114. (See Fig. 3). Torque Bolts (6) to 110 in.lbs. on Model 114-56C. (See Fig. 4). Bolts (6) must be retorqued after one-half hour before proceeding with assembly.
7. Place Magnet (5) on gear shaft and set height as shown. (See Fig. 5). Magnet must be free of metal chips and must rotate without sticking.
8. Locate Seal (4) into body with chamfer facing magnet (5), place Magnet Cup (3) into Body (7). Assemble Drive Housing Sleeve (1) and outer Drive Housing (2) over magnet cup lining up screw holes in Housing (1) (2) and Body (7).
9. Secure assembly by evenly tightening 6 Screws (16) as shown. Torque 8 Screws (17) to 40 in.lbs.

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**SPARE PARTS LIST**

FOR GEAR PUMP MODEL 114/114-56C

PART NO.: 80943, 81427, 81744

<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>UNITS PER ASSEMBLY</b>
1.	5698	SLEEVE (P/N 80943 ONLY)	1
2	5629	DRIVE HOUSING (P/N 80943 ONLY)	1
3	5705	HOUSING (P/N 81427, 81744 ONLY)	1
3	4799	CUP, MAGNET (P/N 80943 ONLY)	1
3	5947	CUP, MAGNET (P/N 81427, 81744 ONLY)	1
4	4709	* O-RING, VITON (P/N 81727 ONLY)	1
4	4820	* SEAL, TEFLON (P/N 81744, 80943 ONLY)	1
5	80405	MAGNET ASSEMBLY, DRIVEN	1
6	5010	SCREW (P/N 80943 ONLY)	2
6	4795	SCREW (P/N 81427, 81744 ONLY)	2
7	5021	PUMP BODY (P/N 80943 ONLY)	1
7	5880	PUMP BODY (P/N 81427, 81744 ONLY)	1
8	4833	* BUSHING	5
9	80562	* GEAR ASSEMBLY, DRIVING	1
10	80563	* GEAR ASSEMBLY, DRIVEN	1
11	5395	CAVITY PLATE	1
12	1508	DOWEL PIN	4
13	5007	BEARING PLATE (P/N 81427, 81744 ONLY)	1
13	5023	BEARING PLATE (P/N 80943 ONLY)	1
14	4989	* SEAL, TEFLON (P/N 81744, 80943 ONLY)	2
14	1634	* O-RING, VITON (P/N 81427 ONLY)	2
15	4720	SET SCREW	1
16	1437	SCREW (P/N 80943 ONLY)	6
17	5878	SCREW (P/N 81427, 81744 ONLY)	8
	5794	BOLT (P/N 81427, 81744 ONLY)	4
	81356	HUB ASSEMBLY (P/N 81427, 81744 ONLY)	1
	5465	BUSHING INSERTION TOOL	
	80968	GEAR SERVICE KIT (P/N 80943, 81744 ONLY)	
	80567	GEAR SERVICE KIT (P/N 81427 ONLY)	
		* Parts available in Gear Service Kit only	

Prices subject to change without notice.

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