



Rebuild Kit Replacement Instructions 94-6831-1

Unist 1-Drop Output Positive Displacement Pumps

For a video walking you through this procedure please visit unist.com/rebuild.
Item numbers in these instructions refer to the drawings found on the back of this sheet.



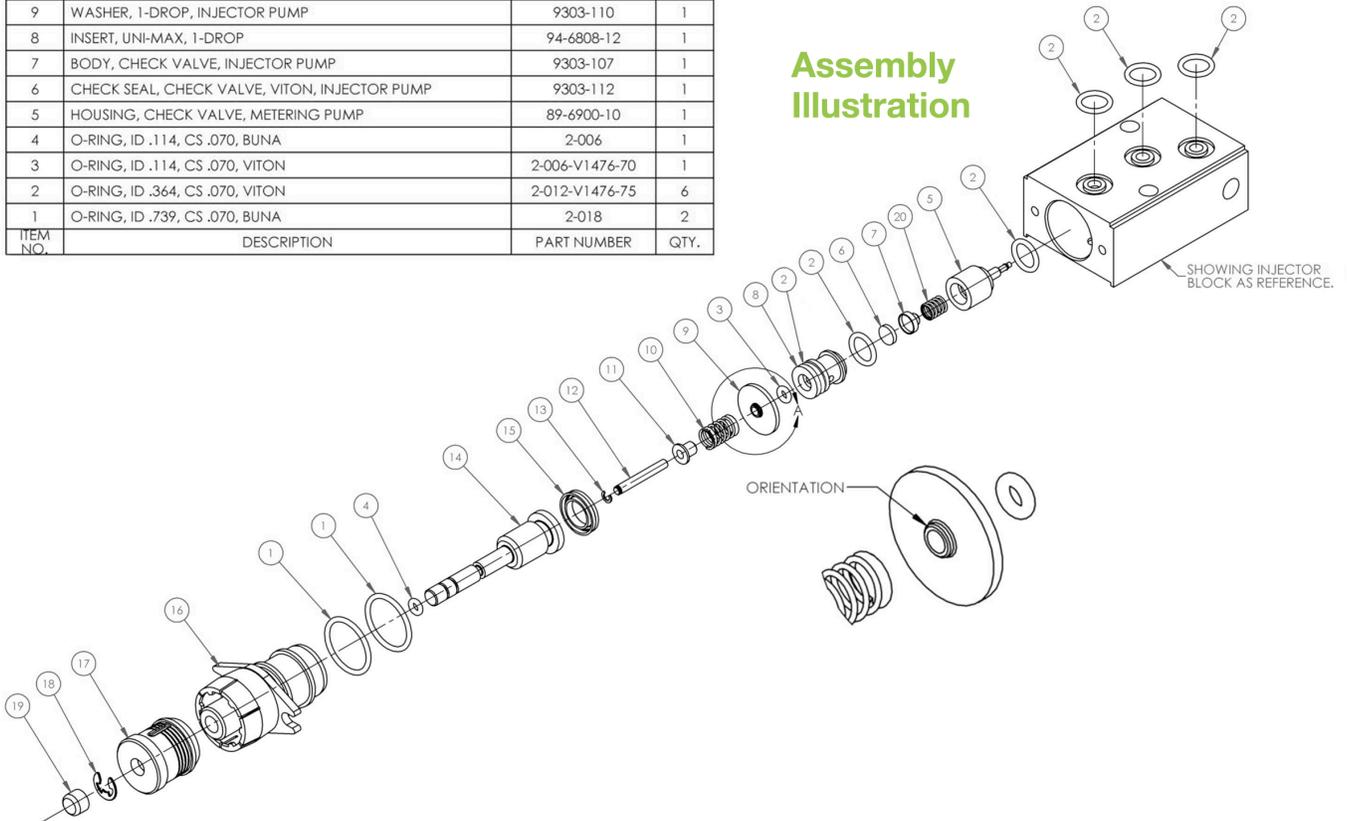
- 1) Remove the two Phillips head screws that secure the adjustment knob assembly to the metering pump body.
- 2) Remove adjustment knob assembly from pump body. Hint: pull and twist knob assembly and/or pry under plastic wing with flat screwdriver.
- 3) Once the adjustment assembly has been removed, then remove all the remaining parts inside the pump.
 - a. Note for metering pumps with coaxial hoses attached to pump, you will need to disconnect the coaxial hose from the metering pump in order to remove some of the components inside of the metering pump. The coaxial hose has an inner 1/8" OD fluid line that is connected to a barbed part (item 5). The 1/8" OD fluid line must be pulled off or cut to remove it from the barbed part. Note: underneath the barbed fitting is an O-ring that will also need to be removed.
 - b. Note for metering pumps with single-line tubing attached to the pump, you should remove whatever fitting secures the tubing to the threaded output port on the metering pump. This could be a brass check valve assembly or just a simple push to connect fitting. Removing whatever fitting is there will make the rebuild process easier.
- 4) Install new parts from kit in following order:
 - a. One 2-012 O-ring (item 2)
 - b. One 89-6900-10 housing, check valve (item 5)
 - c. One 2-012 O-ring (item 2)
 - d. One 9303-108 check spring (item 20)
 - e. One 9303-107 body (item 7) and one 9303-112 seal. Note: these two parts fit together, the flat sealing disk is installed into the brass body and then the assembly is set on top of the spring already installed in the metering pump. The brass body has a post that goes down inside of the coil spring and the flat sealing surface will face outward.
 - f. One 94-6808-12 metering insert (item 8) 2-006 O-ring will face outward when install correctly.
 - If not already installed, install one 2-012 O-ring (item 2) into outer groove on 94-6808-12 insert
 - If not already installed, insert one 2-006 O-ring (item 3) into cupped end of 94-6808-12 insert.
 - g. One 9303-110 washer (item 9)
 - Install so that the raised edge on one side of the washer is facing outward. The return spring will fit over this raised edge, which prevents the spring from rubbing against the metering pin.
 - h. One 2-018 O-ring. Position the O-ring so that it is seated around the brass washer.
 - i. One 94-6806-12 metering pin
 - This pin should already have a clip installed on to it (item 13)
 - Install brass sleeve (item 11) onto the metering pin (item 12). Note: the larger diameter flange should be installed so that it contacts the retaining clip (item 13). The smaller diameter of the retaining sleeve will go inside the return spring.
 - Install return spring (item 10) onto the metering pin.
 - Insert the metering pin and spring assembly through small hole in the brass washer.
 - j. Install the adjustment knob assembly into the pump bore. Note: there should be a 2-018 O-ring (item 1) already installed into the O-ring groove on the plastic assembly.
 - Since the fit is tight and there is a lot of friction when inserting the adjustment knob assembly, a small amount of grease or lubricant inside the pump bore will aid assembly. A light film of grease is all that is needed; globs of grease will interfere with the performance of the metering pump.
 - k. Secure the adjustment knob assembly with the two Phillips head screws.
- 5) Reinstall the coaxial or single-line tubing to metering pump output port.

Rebuild Kit Replacement Instructions 94-6831-1

Unist 1-drop Output Positive Displacement Pumps

ITEM NO.	DESCRIPTION	PART NUMBER	QTY.
20	SPRING, CHECK VALVE, INJECTOR PUMP	9303-108	1
19	CAP, PLASTIC, RED, 1-DROP	701-1R	1
18	RETAINER CLIP, PISTON, END CAP, INJECTOR PUMP	E-21	1
17	KNOB ADJUSTMENT, END CAP, INJECTOR PUMP	94-6807	1
16	END CAP, INJECTOR PUMP	94-6801	1
15	U-CUP, BUNA	9303-111	1
14	ROD, END CAP, INJECTOR PUMP, STAINLESS STEEL	301333	1
13	RETAINING CLIP, 1-DROP, METERING PIN, INJECTOR PUMP	5103-0012SPPR	1
12	METERING PIN, 1-DROP, METERING PUMP	94-6806-12	1
11	SLEEVE, SPRING RETAINING	94-6812	1
10	SPRING, RETURN, INJECTOR	94-6100-8	1
9	WASHER, 1-DROP, INJECTOR PUMP	9303-110	1
8	INSERT, UNI-MAX, 1-DROP	94-6808-12	1
7	BODY, CHECK VALVE, INJECTOR PUMP	9303-107	1
6	CHECK SEAL, CHECK VALVE, VITON, INJECTOR PUMP	9303-112	1
5	HOUSING, CHECK VALVE, METERING PUMP	89-6900-10	1
4	O-RING, ID .114, CS .070, BUNA	2-006	1
3	O-RING, ID .114, CS .070, VITON	2-006-V1476-70	1
2	O-RING, ID .364, CS .070, VITON	2-012-V1476-75	6
1	O-RING, ID .739, CS .070, BUNA	2-018	2

Assembly Illustration



Contents Of Kit

