



## Rebuild Kit Replacement Instructions 94-6833-1

### Unist 3-Drop Output Positive Displacement Pumps

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



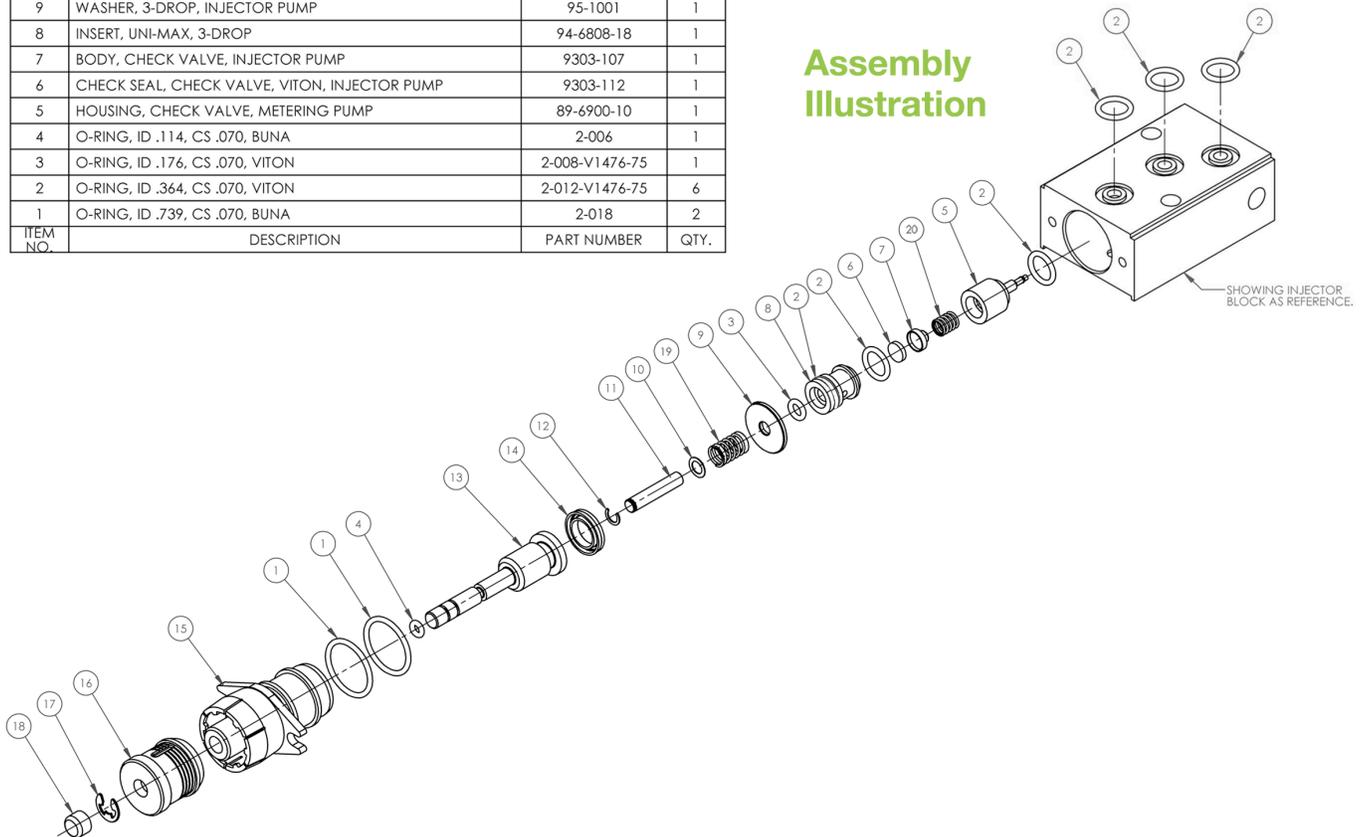
- 1) Remove the two Phillips head screws that secure the adjustment knob assembly to the metering pump body.
- 2) Remove adjustment knob assembly from pump body. Hint: pull and twist knob assembly and/or pry under plastic wing with flat screwdriver.
- 3) Once the adjustment assembly has been removed, 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 94-6808-18 metering insert (item 8) 2-008 O-ring will face outward when install correctly.
    - If not already installed, install one 2-012 O-ring (item 2) into outer groove on 94-6808-18 insert
    - If not already installed, insert one 2-008 O-ring (item 3) into cupped end of 94-6808-18 insert.
  - g. One 95-1001 brass washer (item 9)
  - h. One 2-018 O-ring. Position the O-ring so that it is seated around the brass washer.
  - i. One 94-6806-18 metering pin (item 11)
    - This pin should already have a clip installed on to it (item 12)
    - Install brass washer (item 10) onto the metering pin (item 11).
    - Install return spring (item 19) 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.

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## Unist 3-drop Output Positive Displacement Pumps

| ITEM NO. | DESCRIPTION   | PART NUMBER    | QTY. |
|----------|---|----------------|------|
| 20       | SPRING, CHECK VALVE, INJECTOR PUMP                  | 9303-108       | 1    |
| 19       | SPRING, RETURN, INJECTOR                            | 94-6100-8      | 1    |
| 18       | CAP, PLASTIC, BLACK, 3-DROP                         | 701-89         | 1    |
| 17       | RETAINER CLIP, PISTON, END CAP, INJECTOR PUMP       | E-21           | 1    |
| 16       | KNOB ADJUSTMENT, END CAP, INJECTOR PUMP             | 94-6807        | 1    |
| 15       | END CAP, INJECTOR PUMP                              | 94-6801        | 1    |
| 14       | U-CUP, BUNA   | 9303-111       | 1    |
| 13       | ROD, END CAP, INJECTOR PUMP, STAINLESS STEEL        | 301333         | 1    |
| 12       | RETAINING CLIP, 3-DROP, METERING PIN, INJECTOR PUMP | 5103-0018SPPR  | 1    |
| 11       | METERING PIN, 3-DROP, INJECTOR PUMP                 | 94-6806-18     | 1    |
| 10       | WASHER, BRASS, METERING PIN, 3-DROP PUMP            | 94-6803-2      | 1    |
| 9        | WASHER, 3-DROP, INJECTOR PUMP                       | 95-1001        | 1    |
| 8        | INSERT, UNI-MAX, 3-DROP                             | 94-6808-18     | 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 .176, CS .070, VITON                     | 2-008-V1476-75 | 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

