

## WEAR PARTS MAINTENANCE FOR A15, A20, A30 and A40-2.5% and A30-5% Model - KITS A - G

Thank you for purchasing Dosmatic products! To properly maintain your Dosmatic injector, we strongly recommend that you perform the following maintenance throughout the life of the unit.

### Every 6 months

1. Clean the seal areas
2. Check the #17 o-ring and #7 cylinder. If the #7 cylinder is scored, use **Kit C** and replace the o-rings, cylinder and dosage piston. If the cylinder is in good condition, replace only the #17 o-ring and #44 dosage piston, **Kit A**.

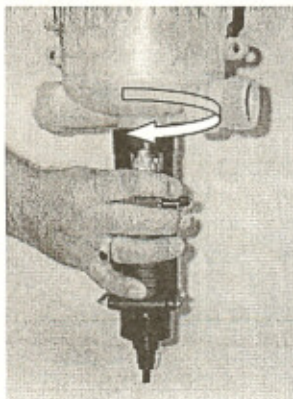
### Every 12 months

1. Replace the #17 o-ring.
2. Check #10-13, 71 and 80 (**Kit D**) for wear. Replace if required.
3. Check #51 shaft for wear. Replace with **Kit B** if required.
4. Perform 6-month maintenance as above.

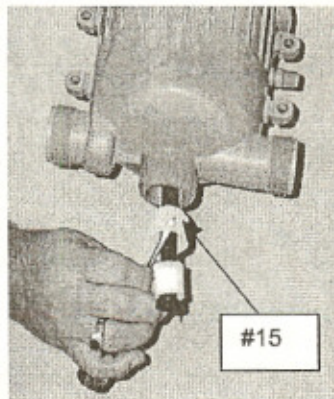
**As necessary** – Check #7 cylinder, #11 and #25 suction hose assembly, #17 o-ring and #44 dosage piston and replace if necessary.

- Be sure to first **rinse the injector with clean water**. The lower end may contain full strength solution that could be dangerous. Read the warning labels on the containers of chemicals being injected and observe any precautionary statements.
- To rinse out additive, put suction tube into a 1 gallon (4 liter) or more of fresh filtered water and run water through the injector to suck water through the lower end.
- Turn off inlet water valve and relieve the water pressure in the injector water line.
- Turn on the bypass valve, if necessary.

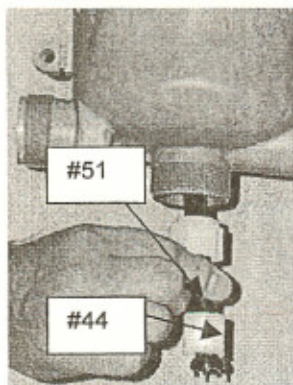
### Advantage A15, A20, A30 and A40-2.5% Models



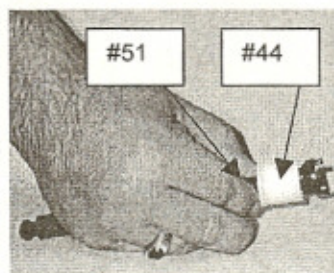
**Step 1** – Unscrew (cw) the lower end assembly and separate it from the body of the injector.



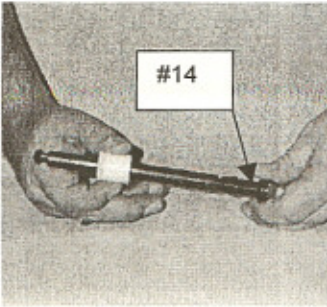
**Step 2** - Using a pocket screwdriver or other tool, remove the o-ring retainer (#15) that is still in the opening from which the shaft assembly was pulled.



**Step 3** - Remove the shaft assy. (#'s 44, 51) from the body of the injector by turning a ¼ turn (cw). Set the o-ring retainer aside.

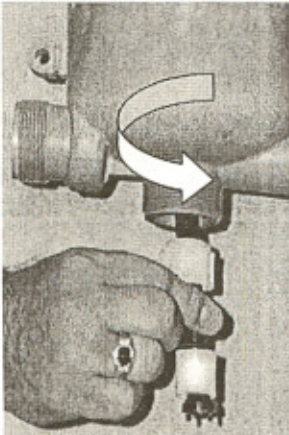


**Step 4** - Remove the dosage piston (#44) by depressing the two "ears" of the shaft (#51) at one time, removing the piston upwards. Inspect the shaft for scoring. If scored, replace with a new one.

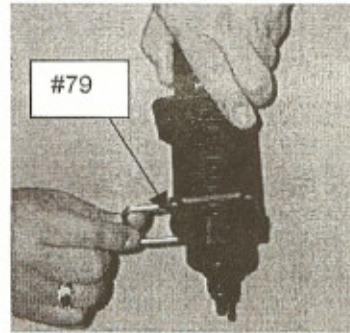


**Step 5** – If the o-ring (#14) on the shaft is worn, remove and replace it. Place a new dosage piston on the shaft **being sure to place the flared, thin edge up**. Place the o-ring retainer onto the shaft assembly.

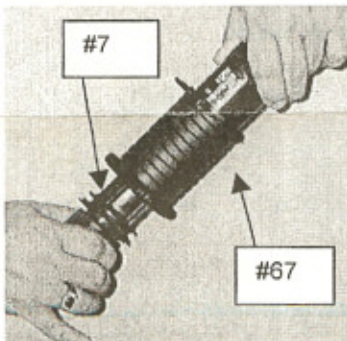
**Step 6** - Remove the o-ring (#17) that was held in place by the o-ring retainer from the upper body. Place a new o-ring on top of the o-ring retainer on the shaft assembly.



**Step 7** - Reinsert the shaft assembly into the body and twist  $\frac{1}{4}$  turn (ccw) until you feel it lock into place. Adjust the o-ring retainer with o-ring until it locks into place. Push it firmly up into the body.



**Step 8** - Remove the bottom pin (#79) from the lower end assembly.

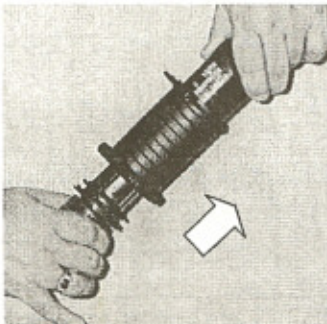


**Step 9** – Pull the inner cylinder assembly (#7) from the outer cylinder (#67).

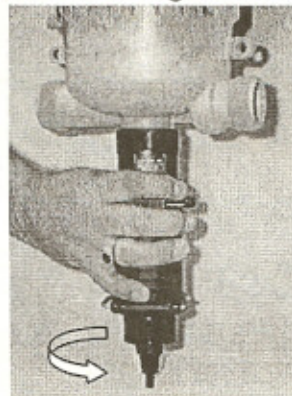


**Step 10** – Unscrew (cw) the suction tube fitting (Kit D-#s 10-13, 71, 80) from the inner cylinder, and rinse the fitting under running water to remove debris. Set aside

**Step 11** – Clean, dry and inspect the inner cylinder for scratches and cracks (do not dry out the o-ring). If damaged, replace it. Screw (ccw) the suction tube fitting back onto the inner cylinder assembly.



**Step 12** - Reinsert the inner cylinder into the lower end. Reinsert the bottom pin.



**Step 13** – Screw (ccw) the lower end back onto the unit opening. Be careful that the shaft, o-ring and o-ring retainer are securely in place.

- If the injector will be used immediately, ensure that the outlet valve is closed and the bypass is open. Slowly open the inlet valve to the injector, then slowly open the outlet valve to the injector and close the bypass.
- If the injector will not be used for two weeks or more, close the outlet valve, slowly open the inlet valve to fill the unit with water, then close the inlet valve and open the bypass valve.

## PARTS KITS LIST – Effective 5/15/03

Advantage A15 - 2.5% (npt = PN 113104, bsp = PN 113604P)

Advantage A20 - 2.5% (npt = PN 113001, bsp = PN 113501P)

Advantage A30 - 2.5% (npt = PN 113102P, bsp = PN 113602P) with On/Off Switch

Advantage A40 - 2.5% (npt = PN 113103P, bsp = PN 113603P) with On/Off Switch

Description of Kit	Part #	Manual Reference
Kit A – Wear Parts Kit for all (dosage piston and o-ring)	011850V	17, 44
Kit B – Wear Parts Kit for all (Kit A & shaft)	011945AV	14, 17, 44, 51
Kit C – Wear Parts Kit for all (Kit A, inner cylinder and o-ring)	011850AV	7, 17, 44, 64
Kit D – Suction Tube Fitting Assy for A15 and A20 (poppet, nut, washer, o-ring, spring, fitting)	011463BV	10, 11, 12, 13, 71, 80
Kit D – Suction Tube Fitting Assy for A30 (poppet, nut, washer, o-ring, spring, fitting)	011461BV	10, 11, 12, 13, 71, 80
Kit D – Suction Tube Fitting Assy for A40 (poppet, nut, washer, o-ring, spring, fitting)	011462V	10, 11, 12, 13, 71, 80
Kit E – Wear Parts Kit for A15 and A20 (Kits C & D, shaft, pin and gasket)	011833PV	7, 10, 11, 12, 13, 16, 17, 44, 51, 64, 71, 80
Kit E – Wear Parts Kit for A30 (Kits C & D, shaft, pin and gasket)	011831PV	7, 10, 11, 12, 13, 16, 17, 44, 51, 64, 71, 80
Kit E – Wear Parts Kit for A40 (Kits C & D, shaft, pin and gasket)	011832PV	7, 10, 11, 12, 13, 16, 17, 44, 51, 64, 71, 80
Kit F – Lower End Cylinder Kit for all (inner & outer cylinder, ratio adjuster, o-rings, retainer clip, pin, gasket)	011961V	7, 16, 61, 64, 65, 66, 67, 79
Kit G – Lower End Kit, complete for A15 (Kit E, outer cylinder, ratio adjuster, o-rings, retainer clips, pins, retainer, filter, solution tube)	011843PV	7, 10, 11, 12, 13, 14, 15, 16, 17, 25, 27, 44, 51, 61, 64, 65, 66, 67, 71, 79, 80
Kit G – Lower End Kit, complete for A20 (Kit E, outer cylinder, ratio adjuster, o-rings, retainer clips, pins, retainer, filter, solution tube)	011840V	7, 10, 11, 12, 13, 14, 15, 16, 17, 25, 27, 44, 51, 61, 64, 65, 66, 67, 71, 79, 80
Kit G – Lower End Kit, complete for A30 (Kit E, outer cylinder, ratio adjuster, o-rings, retainer clips, pins, retainer, filter, solution tube)	011841PV	7, 10, 11, 12, 13, 14, 15, 16, 17, 25, 27, 44, 51, 61, 64, 65, 66, 67, 71, 79, 80
Kit G – Lower End Kit, complete for A40 (Kit E, outer cylinder, ratio adjuster, o-rings, retainer clips, pins, retainer, filter, solution tube)	011842PV	7, 10, 11, 12, 13, 14, 15, 16, 17, 25, 27, 44, 51, 61, 64, 65, 66, 67, 71, 79, 80
Kit H – Motor Piston Assy for A15 (upper end kit, excluding knob)	011864	9
Kit H – Motor Piston Assy for A20, A30 and A40 (upper end kit, excluding knob)	011863R	9
Kit I1 – Inlet/Outlet Adapter Kit npt for A15, A20 and A30 (2 adapters, nuts and gaskets)	011054	16, 23, 24 (x 2)
Kit I2 – Inlet/Outlet Adapter Kit bsp for A15, A20 and A30 (2 adapters, nuts & gaskets)	011054B	16, 23, 24 (x 2)
Kit I1 – Inlet/Outlet Adapter Kit npt for A40 (2 adapters, nuts and gaskets)	011099B	23, 24, 72, 73 (x 2)
SCT Kit – Reference part numbers 011067A - F	Contact Dosmatic for PN#	
Kit M – Mounting Bracket Kit for all (mounting bracket, 4 hex caps & nuts)	011432	56, 57, 58

## KITS AND PARTS LIST – Effective 5/15/03

**Advantage A30 – 5% (npt = PN 113107P, bsp = PN 113607P)**

Description of Kit	Part #	Manual Reference
Kit A – Wear Parts Kit (dosage piston and o-ring)	011852PV	17, 44
Kit B – Wear Parts Kit (Kit A & shaft)	011950AV	14, 17, 44, 51
Kit C – Wear Parts Kit (Kit A, inner cylinder and o-ring)	011856PV	7, 17, 44, 64
Kit D – Suction Tube Fitting Assy (poppet, nut, washer, o-ring, spring, fitting, hose barb)	011462V	10, 11, 12, 13, 71, 77, 80
Kit E – Wear Parts Kit (Kits C and D, shaft)	011836PV	7, 10, 11, 12, 13, 14, 16, 17, 44, 51, 64, 71, 77, 80
Kit F – Lower End Cylinder Kit (inner & outer cylinder, ratio adjuster, o-rings, retainer clip, pin, gasket)	011963PV	7, 16, 61, 64, 65, 66, 67, 79
Kit G – Lower End Kit, complete (Kit E, outer cylinder, ratio adjuster, o-rings, retainer clips, pins, retainer, filter, solution tube)	011846PV	7, 10, 11, 12, 13, 14, 15, 16, 17, 25, 27, 44, 51, 61, 64, 65, 66, 67, 71, 77, 79, 80
Kit H – Motor Piston Assy (upper end kit, excluding knob)	011863R	9
Kit I1 – Inlet/Outlet Adapter Kit npt (2 adapters, nuts & gaskets)	011054	16, 23, 24
Kit I2 – Inlet/Outlet Adapter Kit bsp (2 adapters, nuts & gaskets)	011054B	16, 23, 24
SCT Kit – Reference part numbers 011607A - F	Contact Dosmatic for PN#	
Kit K2 – Conversion Kit, from 5% to 2.5%	011841PV	(Kit G of A30-2.5%)
Kit M – Mounting Bracket Kit (mounting bracket, 4 hex caps & nuts)	011432	56, 57, 58

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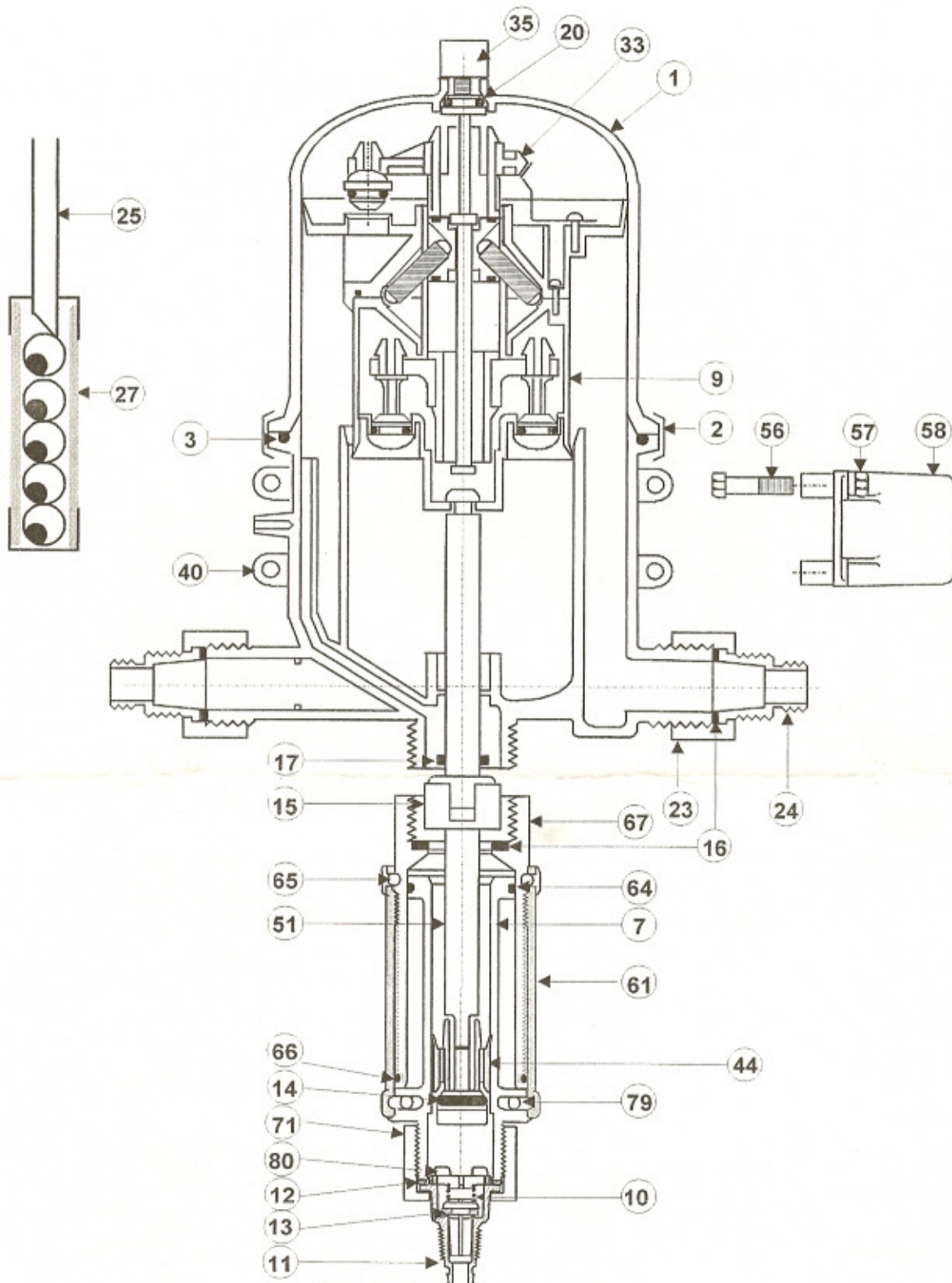
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**A20-2.5%**  
**A15-2.5%**

A30 and A40-2.5%,5% REPAIR PARTS

