

Santa Barbara City Fire Department - Standard Operating Procedures Apparatus and Equipment Operations	Code: A-VI-1
Maintenance	
Chpt: VI Nozzles	Revised: 2/15/12 Pages: 3

I. PROCEDURE

A. FIELD LUBRICATION PROCEDURE — USE THIS PROCEDURE ONLY IF THE NOZZLE CONTROLS BEGIN TO TIGHTEN

B. All Task Force Tips nozzles are factory lubricated with silicone grease. This lubricant has excellent washout resistance and long term performance in fire fighting nozzles. Foam agents and water additives contain soaps and chemicals that may break down the factory lubrication.

C. The moving parts of the nozzle should be checked on a regular basis for smooth and free operation, and for signs of damage. IF THE NOZZLE IS OPERATING CORRECTLY, THEN NO ADDITIONAL LUBRICATION IS NEEDED. Any nozzle that is not operating correctly should be immediately removed from service.

D. Field use of Break Free CLP (spray or liquid) lubricant will help to restore the smooth and free operation of the nozzle. However, these lubricants do not have the washout resistance and long term performance of the silicone grease. Therefore, continued re-application of Break Free CLP will be needed on a regular basis.

E. CAUTION: Aerosol lubricants contain solvents that can swell O-rings if applied in excess. The swelling can inhibit smooth operation of the moving parts. When used in moderation as directed, the solvents quickly evaporate without adversely swelling the O-rings.

II. PROCEDURE

A. PART ONE. COUPLING DOWN

1. Position the nozzle at a 45 degree angle with the COUPLING end down. CLOSE the valve handle and set the pattern to STRAIGHT STREAM. Then spray a 5 second burst in these areas: Spray between the pattern control and the barrel cone.
2. Spray down the center of the end screw.
3. Rotate shaper into FLUSH position.
4. Spray down the front end of the nozzle to dribble lubricant into the clearances between the slider and the valve body.

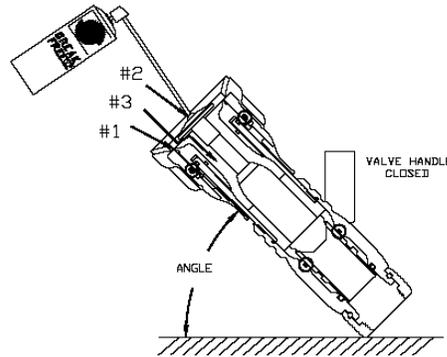
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5. While holding nozzle at the angle, wait 30 seconds for the lubricant to penetrate into the clearances. Cycle the valve handle and rotate the shaper from straight stream to full flush several times, and then proceed to the next section.

- a) #1 FRONT PATTERN CONTROL SEAL
- b) #2 PRESSURE CONTROL UNIT
- c) #3 FRONT SLIDER SEAL

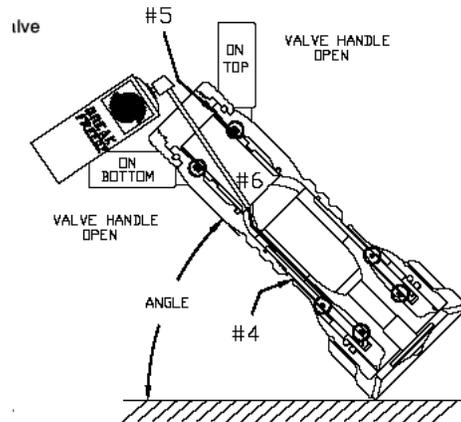
III. PART TWO. COUPLING UP

A. Position the nozzle at a 45 degree angle with the BUMPER end down. OPEN the valve handle and set the pattern to FLUSH. Then spray a 5 second burst in these areas:



- 1. Spray down the clearance between the label and the shaper guide.
- 2. Spray into the clearance between the slider and the valve body.
- 3. With the handle on the top, spray down into the nozzle. The aerosol extension tip will help direct the spray into the clearance leading to the O-ring.
- 4. Rotate nozzle so the valve handle is on the bottom and spray another 5 second burst. Spray a small amount on the detent followers located in the handle.

5. While holding nozzle at the angle, wait 30 seconds, then cycle the valve handle several times. Rotate the pattern control from straight stream to full flush several times. The pattern control should move freely and easily. The barrel cone should move forward to within 1/16" of the baffle before the shaper reaches straight stream position. Wipe off excess lubricant.



- a) #4 REAR SHAPER SEAL
- b) #5 REAR SLIDER SEAL
- c) #6 FLUSH MECHANISM SEAL

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d) #7 DETENTS IN THE HANDLE