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## POINTERS FOR REPAIRING THE CLEANING GUN

Unless the motor completely fails, there are very few items that can go wrong with the cleaning gun. Some of the more common problems are:

1. The Main Spring (item 5) breaks
2. The delivery valve (items 17,18,19) breaks or plugs up
3. The adjusting roller (item 11) is misadjusted
4. The control knob (item 8) is misadjusted
5. The adjustable nozzle (item 32 thru 32-8) is plugged up



### [How to repair these problems - see parts list PDF](#)

#### **Problem 1:**

When or if this happens, or the spring becomes very weak it needs to be replaced. Start by removing the threaded stud (#23) on the top of the liquid container. Then remove the pump cylinder (#13). Then remove and replace the spring. When putting the assembly back together be certain that the piston (#15) is put in so that the indentation is facing up so the threaded stud can be tightened into it. Allowing for the piston assembly to be held in place.

#### **Problem 2:**

To replace or clean, remove the nozzle assembly by unscrewing the nut (item 32-1) with an 11/16 wrench. Also remove #17, 18, 19 see if it can be cleaned or needs to be replaced. Be certain when reassembling to make sure piece 17, 18, 19 is put in sometimes it is left out

#### **Problem 3:**

Part (#11) is set from the factory at the optimal setting. The only time it needs to be changed is when disassembled. If you must adjust this item start by loosening the set screw (#24) and making a mark on the barrel just behind the air intake hole. This mark is so you can readjust the gun to the proper setting. After this you can move the adjusting roller. When you have

reassembled the gun and operate it, if you find that there is a lack of pressure try adjusting the roller until you feel there is enough pressure.

**Problem 4:**

The control knob (#8) is set from the factory for the most optimal pressure. If possible, try not to readjust from the factory setting. If for some reason this gets out of adjustment take all the way to the right (max setting) than take back the other direction a ¼ turn or until desired pressure is acquired.

**Problem 5:**

The adjustable nozzle plugs up. Unscrew item (#32-8) from (#32-4) and check both to see where the obstruction is located. Do not try to clean the nozzle by pushing a wire or such item through the hole, this will damage the opening and either causes plugs or makes the opening too large causing a loss of pressure. If the obstacle is visible remove it, if it is not visible try to rinse it out with water or alcohol. Check to be certain items #32-5 and #32-6 are in the assembly, replace items #32-4 and #32-5 be certain they are screwed together tightly, this will ensure no loss of pressure.

**HELPFUL HINTS :**

- \*Always use American Niagara Products, so no containments will get into the system.
- \*Check the filter at the bottom of the strainer to see if it needs to be cleaned.
- \*Due to the fact the piston spring (#15) is Teflon carbon coated, it will rust once the Teflon begins to crack.
- \*Leaving water in the gun will cause rusting.
- \*If you use water in the gun you can run transmission fluid through it in order to get all the water out. Transmission fluid is used because it is thin, and the red color lets you know when it has gone thru the gun.
- \*If you plan on using water through the gun please refer to our addendum about water usage and the gun.

# ***Troubleshooting & Adjusting Spray Gun***

**DESCRIPTION:** This tough, dependable and durable cleaning gun is designed to handle the strongest of solvents. Metal handle reduces risk of breaking if dropped. Factory authorized replacement parts and repair service readily available, usually within 48 hours, 110 Volt/6C Cycle A.C.

**CAUTION:** The gun builds up considerable pressure. Never point the gun at yourself or other persons, as this may cause injury. The Mystic Cleaning Gun is preset at the factory and adjustments are generally not required. Remove the container, fill with fluid (about 2/3 full) and replace. Plug gun into a 110V 60Hz outlet. Depress switch for 15- 20 seconds to prime pump. Spray fluid onto scrap fabric to remove oil film from internal pump parts. MYSTIC Spray gun is now ready for use.

## **OPERATING INSTRUCTIONS:**

1. **THE ADJUSTING ROLLER ON TOP OF THE GUN** controls the degree of atomization of fluid when not equipped with an adjustable nozzle. Approximate setting for maximum pressure for textile or screen cleaning is at a point where 1/ 8" clearance is visible between rear of air intake and forward extremity of housing (#1 ). The set screw (#24) on the left- hand side of the barrel must be removed BEFORE attempting to move the ADJUSTING ROLLER.
2. **VOLUME CONTROL KNOB AT REAR OF GUN** controls the volume of fluid dispensed. For textile cleaning, turn button as far left as possible; then, back to right 1/ 2 to 1 revolution. Once adjustments are made to satisfactory pressure and volume setting; it is not generally necessary to change them.

**TROUBLE SHOOTING MINOR MECHANICAL PROBLEMS** Some of the cleaning guns returned for repairs are found to be out of adjustment at the adjustable roller or volume control; or, have simply had minor mechanical difficulties which could have been easily taken care of by plant electricians. Some troubleshooting problems and causes are listed below:

1. **FLUID LEAKAGE** It is necessary that all parts, particularly the nozzle head, be tight to prevent fluid working its way through the screws threads. Cleaning should also be done at an angle no greater than 45o to prevent leakage from the air hole at the top of the gun. Leakage will also occur at the screw threads of the container cup if it is tilted forward for an extended period.
2. **LACK OF PRESSURE** The primary cause of lack of pressure occurs when the suction tube set screw, and nozzle head are not tight and the unit is sucking air. Blockage in the pump unit or nozzle and weak/damaged springs in the pump assembly are also a cause of low pressure. A lack of pressure will also occur when the primer is lost due to excessive tilting of the gun.
3. **OPERATION WITHOUT FLUID** It is highly recommended that this unit not be operated empty since undue wear and strain is caused on all working parts. Continued use of an empty gun will surely cause breakage of parts and needless repairs.
4. **LUBRICATION** The gun should not be over -lubricated. One or two drops of light machine oil used daily is sufficient to keep the pump unit in working condition. For storage or discontinued use, it is recommended that a light machine oil be pumped through the gun in the same manner as cleaning fluids for a period of 2 to 3 seconds. For start- up, cleaning fluid should be run through the unit prior to putting it into operation so that any oily films might be pumped through the unit and flushed out.

**REPAIR PARTS AND MAJOR GUN REPAIRS** Normally, any repairs which are needed to the guns are minor in nature and we suggest that they be examined by the company electrician for apparent minor malfunctions. This inspection will probably involve disassembly of the pump unit and perhaps removal of the housing cover for examination. In practically all cases, these minor repairs can be made quickly without significant loss of time from operation. Should there be obviously damaged parts which must be replaced, said parts should be ordered from AMERICAN NIAGARA directly by number taken from the parts list supplied in the instruction sheet. Use only parts manufactured for and distributed by

If you have tried any or all of the hints on repairing the gun and still have issues repairing it, please call 770-441-5900 or toll free 1-800-241-7708