

## SUMPVAK TROUBLE SHOOTING GUIDE

If SUMPVAK will not start when the trigger is in the up position or shut off in the down position:

- 1 Check to see if the water supply is connected and the water is turned on.
- 2 Make sure the water pressure is below 80 PSI. If the pressure is greater than 80 PSI, install a water pressure reducing valve according to installation instructions.
- 3 If the above criterion has been met, debris of some kind (flux, solder, Teflon tape, etc...) has been trapped in one of the following places and is causing the pump to malfunction. Under the valve cap, in the seat and/or in the switch assembly. Follow the steps below to clear the debris.

### Clearing Debris

- 1 Turn off the water supply to the pump.
- 2 Take note of the alignment of the switch assembly and trigger in relation to the trigger guide. When you complete step 14, it should look just like it does now.
- 3 Without removing the trigger from the float rod, remove the cotter pin from the switch assembly.
- 4 Remove the trigger from the switch assembly.
- 5 Unscrew the seat from the valve cap.
- 6 Notice the three holes in the valve cap located in the socket that the seat screws into.
- 7 Put your palm over those holes in the valve cap and **SLOWLY** turn the water on until you feel and see at least one strong jet of water squirting out of the valve cap onto your palm and then shut the water off. If you saw and felt at least one strong jet of water, continue onto step 8. If not, carefully remove the valve cap nut. Being careful not to lose the spring, remove the valve cap, spring and rubber diaphragm from the valve body. Again hold your hand over the open valve body and **SLOWLY** turn the water on for a few seconds to flush out the valve body then turn the water off. Make sure the diaphragm and valve cap are clean. Reinstall the diaphragm, spring, valve cap, and valve cap nut. Do not tighten the nut at this time.
- 8 Being careful not to lose the plunger or o-ring, unscrew the switch assembly from the seat. Look at the seat to make sure it is free of debris. Now carefully look into the bottom of the switch assembly to make sure it is free of debris. Rinse or blow off the parts if necessary.
- 9 Screw the seat into the valve cap **FINGER TIGHT ONLY**.
- 10 Put the o-ring back into the seat.
- 11 Put the plunger back into the switch assembly so that the light colored neoprene insert is facing out. Make sure the plunger spins smoothly and slides in and out of the switch assembly freely. Carefully insert the switch assembly and plunger into the seat and with two fingers only **GENTLY** start screwing the switch assembly into the seat. As soon as the switch assembly makes contact with the o-ring stop screwing! Now turn the switch assembly clockwise an additional  $\frac{1}{2}$  to  $\frac{3}{4}$  of a turn only and stop.
- 12 Turn the valve cap so the trigger hole in the switch assembly lines up with the trigger guard.
- 13 Reinstall the trigger and the cotter pin.
- 14 Once aligned properly the trigger should be centered inside the trigger guard without rubbing on the sides when it is raised or lowered.
- 15 Tighten the valve cap nut **HAND TIGHT ONLY** while making sure the valve cap does not rotate.
- 16 Leave the trigger in the down position and slowly turn the water on.
- 17 The pump should now activate when you lift the trigger, and it should shut off when you lower the trigger. If the SUMPVAK still does not start and/or shut off properly, do not remove the pump. The problem is more than likely something simple to solve. Please call tech support M-F between 9:00am and 5:00pm EST. @ 248 352 9350.