

Troubleshooting:

1. If the spray is weak or there is no spray.

The pump does not operate at full flow if there is air in the system. Air can enter the system from several sources:

- a. Out of water – fill the water reservoir and prime the system.
- b. Out of chemical – replace the chemical container and prime the system.
- c. Foot valve is clogged – clean or replace the foot valve in the reservoir. To access the foot valve, remove water fill cap and pull tube out of the tank.

2. Pump pulses.

There is a pressure switch in the pump. If the pump is pulsing, this switch is cycling and the life of the pump will be greatly reduced. If the pressure switch is cycling, you will hear the pump sounding irregular and the pump will be shutting on and off very quickly. Normally, this is caused by blocked spray tips.

Please follow this progression when addressing a pulsing pump:

- a. Make sure there are absolutely no air leaks in the system.
- b. Make sure chemical caps are screwed tightly.
- c. Make sure all connections are tight and there are no water leaks in the system.
- d. Make sure you are properly primed and have chemical running through the system.
- e. Soak tips in Hillyard Extra Strength CSP overnight and rinse, this will help remove scale and mineral deposits.
- f. You may have to remove debris by using a small paper clip into the tip and rinse (this is delicate process, using too aggressive of techniques can ultimately damage the spray pattern and performance of the spray tips).
- g. **The switch can be adjusted and may be necessary to help the pump run more smoothly. Adjust pressure switch as a last option, serious damage can occur by adjusting the pressure switch. It is best to have the switch adjusted by taking to a professional service department.** To adjust the switch, remove the blue cover. In the black end of the pump there is a hole. Using a 5/64 hex wrench, turn the screw in the hole CW until the pump operates smoothly. Then turn it an additional ½ turn. Over adjustment will overload the pump and cause the pump life to be shortened.