



# Calibration of the *Aquasol* Chemical Control System



***Aquasol WTC* with *Stenner* liquid chlorine and muriatic acid pumps.**

## Calibration

- 1) Balance the pool or spa to the chemical levels you want to maintain. Make sure your alkalinity, pH, and cl levels are correct.
- 2) Unplug the chemical pumps from the controller.
- 3) Remove the faceplate by removing the four screws in the corners. Do not disconnect the wiring harnesses that attach the faceplate to the circuit board. Hang the faceplate in the notches on the clear cover. You should be able to see the front of the faceplate, and power should be on.
- 5) Turn the "Cl ORP" and "pH" dials on the faceplate to the 12:00 position.
- 6) Locate the "clzero" and "pH zero" screws in the lower right hand quadrant of the main circuit board. They are labeled "VR16" (cl) and "VR17" (pH) on the circuit board, and look like tiny brass screws on top of small gray plastic boxes.
- 7) Make sure the "pH alert" or "Feed Limit" lights are not activated. If they are, unplug the controller and then plug it back in to clear the alerts.
- 8) Look at the "pH Feed" light on the faceplate. If the light is *not on*, turn the corresponding "pH zero" - VR17 screw on the circuit board counter-clockwise with a very small screwdriver until the light just comes on, and then turn the screw back just a bit until it goes out. If the light *is on*, turn the screw clockwise until it just goes out. The point where the "pH Feed" light is just coming on or going off when you turn either the screw or the dial on the faceplate is the spot you are trying to find. You may have to turn the screw several times before the light comes on. It can go up to about 30 turns in each direction.
- 9) Repeat the above process, except on the chlorine side, look at the "Cl ORP Feed" light on the faceplate, and turn the "clzero" screw labeled VR16 on the circuit board.
- 10) If the pH reading on the digital meter does not match the reading from your test kit, you may turn the small white screw just beneath the pH meter labeled "pH Cal." to adjust it. This only adjusts the reading on the meter and does not effect the feed point. The ORP meter can't be adjusted.
- 11) Plug the chemical pumps back into the controller.

**NOTE:** *DIP switch number 3 on the main circuit board should be the only DIP switch in the "on" position, and the "Acid/Caustic" switch should always point down to "Acid."*

The Main Circuit Board

