

Soft Touch Trouble Shooting Guide

To identify a problem, count the Service light flashes in sequence

ONE FLASH

SOLUTION

Flow Problem.
Green Flow - OK Light OFF

Clean: Manifold screen, circulation filter, pump basket, skimmer basket and cell
Check: Valve positions and tri-sensor cord

TWO FLASHES

SOLUTION

Cell voltage is high and amperage is low. This is usually caused by salt level below 2800 PPM and water temperature below 65° F, a dirty/scaled cell, or a cell near the end of its life. Salt display may be out of calibration.

Increase salt to 3500 ppm, or clean cell (turn pump off before removing cell). To clean cell, remove from manifold and spray cell with a jet stream hose nozzle. If the cell is still scaled, soak in a bucket with a 4:1 water/muriatic acid mixture, in 20-minute intervals. Flush the cell terminals with fresh water, dry, replace in manifold.

CAUTION: To avoid damaging splashes, always add muriatic acid TO water and never the opposite!

THREE FLASHES

SOLUTION

Cell voltage is low.
Power supply may be defective.

Installer: Verify unit is configured for proper input AC voltage.
Replace power supply.

FOUR FLASHES

SOLUTION

Temperature sensor or wiring to sensor has failed.
Tri-Sensor Pins / Cord damaged

Remove the Tri-sensor, check pins, sensors and cord connection at each end.
Replace Tri-sensor or cord.

If Service light is still flashing, call AutoPilot Systems at (800) 922-6246

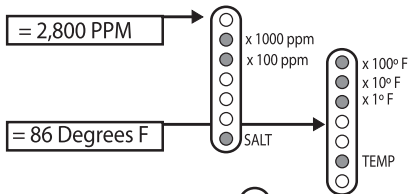
SELF DIAGNOSTICS

To activate Self Diagnostic mode, press and hold the UP and DOWN arrows simultaneously until output lights go off.

Count the number of flashes as described below. (The top light usually flashes only with 100° + temperatures)

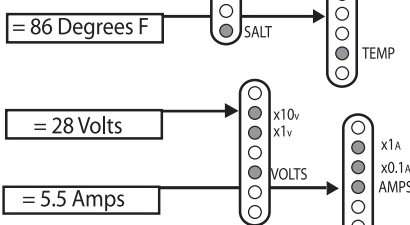
The **first** test is the **SALT LEVEL** in Parts Per Million (PPM).

Example: 2 flashes / pause / 8 flashes / pause



The **second** test is the **WATER TEMPERATURE** in Farenheit.

Example: 8 flashes / pause / 6 flashes / pause



The **third** test is the **CELL VOLTAGE** in DC volts.

Example: 2 flashes / pause / 8 flashes / pause

The **fourth** test is the **CELL CURRENT** in DC amperes.

Example: 5 flashes / pause / 5 flashes / pause

Soft Touch Quick Reference Guide

DANGER

Risk of electrical shock. Disconnect all power to pool equipment prior to installing or removing AutoPilot cell. Always use care when working with high voltage wires.

Prior to initial start up of your Soft Touch System, test and adjust the water chemistry and salt level. Contact AutoPilot Systems if an Owner's Manual is needed.

Water Chemistry Recommendations:

Chlorine: 1-3 ppm

Total Alkalinity: 80-120 ppm

Cyanuric Acid: 60-80 ppm

pH: 7.2-7.8

Salt: 2500-3500 ppm

Calcium Hardness: 200-400 ppm

Salt Level Recommendations:

With any AutoPilot System, the optimum salt level for your pool water is 3000 ppm.

Test your salt level using a salt test strip (or see Self Diagnostics) then determine the amount of salt needed to achieve 3000 ppm using the following chart.

Initial Salt Level	Basic Formula	Pool Size		
	per 1000 gallons	15,000 gallons	28,000 gallons	40,000 gallons
0 ppm	25 lbs. of salt	375 lbs. of salt	700 lbs. of salt	1000 lbs. of salt
1000 ppm	17 lbs. of salt	250 lbs. of salt	467 lbs. of salt	667 lbs. of salt
1500 ppm	12 lbs. of salt	187 lbs. of salt	352 lbs. of salt	500 lbs. of salt
2000 ppm	8 lbs. of salt	125 lbs. of salt	233 lbs. of salt	333 lbs. of salt
2500 ppm	4 lbs. of salt	62 lbs. of salt	116 lbs. of salt	166 lbs. of salt

Salt indicator lights:

Green (OK) = 2500 ppm or higher

Yellow (LOW) = 2000-2400 ppm, Test salt level then add salt according to the chart above.

Red (ADD) = Below 2000 ppm, Sanitizer production ceases until salt level reaches 2100 ppm. Test salt level then add salt according to chart above

Output Setting:

The OUTPUT level is adjustable from 0% (off) to 100% (maximum) by pressing the Up or Down arrow.

Test chlorine level and adjust output. Little adjustment is needed once the setting is established for your pool.

Pulsing Lights = Sanitizer production mode

Solid Lights = Resting mode

Boost Mode:

The BOOST button temporarily increases output to 100%.

24 Hour Boost = Press Boost once (Boost light green)

72 Hour Boost = Press and hold Boost for 8 seconds (Boost light flashing)

Deactivate Boost = Press Boost a second time.

Normal Display:

Output Light: = Solid (resting) or Pulsing (producing sanitizer)

Boost Light: = OFF

Flow-OK Light: = Green

Salt Light: = Green

Service Light: = OFF

Cell Power: = Factory set on 2

Reversing: = Factory set on Normal