

Controller Troubleshooting Guide

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Timers & Tank Shut-off

All of the Xitech controllers have the same basic functions. Discovering what function is malfunctioning is the purpose of this guide. If you think you have a skimmer or pump problem please refer to the Skimmer & Pump Trouble Guide.

Trouble Condition: The controller product tank full light does not come on when the controller power switch is turned on.

Possible reasons:

1. Power to the controller is not on or wired correctly.
2. Battery is low.
3. DC or AC fuse has been blown.

Trouble Shooting Procedure:

1. Check out the power source and all wiring.
2. Check the battery water level and recharge the battery
3. If the DC or AC fuses are blown, check out the wiring to the battery or to your AC source very carefully. A blown fuse means you have an electrical short to ground. The fuse For the Model 2500ES the AC & DC fuses are inside on the back for the timer PC Board. The AC fuse is 1-1/4" Long 1amp and the DC fuse is 1-1/4" long 2 amp.

If you can not find the cause call the factory for help (505)867-0008 while you are in front of the controller.

Trouble Condition: The controller product tank full RED light stays on with an empty product tank.

Possible reasons:

1. The wiring connections to your tank shutoff switch has come loose.
2. DC power to the controller is below 12 volts. (older sensors Only)
3. Tank sensor is malfunctioning.

Trouble Shooting Procedure:

1. Disconnect controller from power source. Check wire nuts in the power junction box and try again. If the red light is still on go to step 2.
2. If your controller power source is DC (i.e. Battery), Try hooking up jumper cables from a car to the battery. If the red light goes off check the battery water level and recharge the battery. If the red light is still on go to step 3.
3. Connect the tank shutoff cable wires blue and black or red and black wires together in the power junction box. Apply power to timer. If the Red light on the front panel goes off it means that the problem is with the tank shutoff level switch or cable. Call the factory while you are in the field for assistance.

If you can not find the cause call the factory for help (505)867-0008 while you are in front of the controller.

Trouble Condition: The controller's digital clock is not accumulating time when the skimmer is running(2500ES & REM2500ES Only).

Possible reasons:

1. The operating pressure to the controller is below 35 psi.
2. The wiring from the pressure switch to the digital timer is faulty.
3. The pressure switch inside the controller is faulty.

Trouble Shooting Procedure:

1. The digital timer receives a signal from a pressure switch inside the timer when the timer solenoid is activated and the operating pressure is above 35psi. Check out the operating pressure being delivered to the timer. Watch out for bad pressure gauges at the air source. If the operating pressure is OK, go to step 2.
2. Check the wire connector plunged into the back of the digital timer for being loose or lose wires coming out of the connector. If everything looks OK, go to step 3.
3. The pressure switch inside the timer closes an electrical contact inside the switch when the switch is exposed to 35psi. To check out the pressure switch, remove the front control panel, turn on the power switch on the front control panel, and turn the pumping time in minutes knob to the Cont. position. First check to see if the pressure switch is leaking air or has come disconnected from the solenoid valve fitting. Next check the electrical contacts at the pressure switch. The contacts should be shorted.

If you can not find the cause call the factory for help (505)867-0008 while you are in front of the controller.

Trouble Condition: The 2500ES digital elapsed timer has a lot more time than was expected.

Possible reasons:

1. The length of air supply tubing from the 2500ES controller to the skimmer is over 50 feet. The longer the supply tubing the longer the skimmer will keep running after the 2500ES timer turns off the air supply to the skimmer.
2. Timer solenoid valve inside timer is not shutting off properly.

Trouble Shooting Procedure:

1. The solenoid is a spring loaded normally closed valve. It is possible that some debris has found its way into the valve which could cause the valve not to close completely. To resolve this problem you can return the timer to the factory or disassemble and clean the valve yourselves.
2. If your controller power source is DC (i.e. Battery), Try hooking up jumper cables from a car to the battery. Check the battery water level and recharge the battery.

If you can not find the cause call the factory for help (505)867-0008 while you are in front of the controller.

Trouble Condition: The 5000ES or 5500ES controllers are not controlling the pumps according to the program settings.

Possible reasons:

1. The program start date and time settings were programmed behind the current real time clock.
2. The programmer did not return to the status window after programming.
3. The PLC is not operating properly.

Trouble Shooting Procedure:

1. Write down the program values. Push the DEL key one time. Now go to the Status window in the Direct Mode and reset the elapsed time on all stations. Next go to the program window and reprogram all of your active stations. After programming you **MUST** go to the Status window **BEFORE** the real time PLC clock time catches up to your earliest start time. When you reach the Status window the status for all stations should be "Active". If any say "Running" repeat step 1.
2. Same as #1.
3. Call the factory for help (505)867-0008 while you are in front of the controller.