



## TROUBLESHOOTING UNIVERSAL SEMI-AUTOMATED 4 PUMP CONTROLLER

Below is a table describing the most frequent problems and solutions with the USC Universal Semi-Automated 4 Pump Controller. For further assistance, contact the USC Service department at (785) 431-7900.

| Problem   | Possible Cause  | Solution  |
|---|---|---|
| Pump is fluctuating.  | <ol style="list-style-type: none"> <li>1. Restriction in tubing</li> <li>2. Filter is plugged or missing gasket.</li> <li>3. Hoses are worn out.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Flush tubing and check filter for any restrictions.</li> <li>2. Clean filter and check for gasket.</li> <li>3. Replace hoses.</li> </ol>  |
| Pump will not turn off in AUTO when seed runs out.<br>(USC Seed Treaters)     | <ol style="list-style-type: none"> <li>1. Proximity switch in the hopper cone is dirty.</li> <li>2. Proximity switch is set too sensitive.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Clean proximity switch.</li> <li>2. Adjust the pump proximity switch sensitivity by turning adjustment screw counter-clockwise.</li> </ol>  |
| Pump will not turn off in AUTO when seed runs out.<br>(Non-USC Seed Treaters) | <ol style="list-style-type: none"> <li>1. Signal to shut the pump off is not being sent from the treater.</li> </ol>  | <ol style="list-style-type: none"> <li>1. Check treater control panel to see if signal is being sent to pump controller.</li> </ol>   |
| Pump will not turn on in AUTO.<br>(USC Seed Treaters)                         | <ol style="list-style-type: none"> <li>1. Proximity switch in the hopper cone is not staying covered.</li> <li>2. Proximity switch is not sensitive enough.</li> <li>3. HMI screen not set to AUTO.</li> <li>4. Auxiliary cable not hooked up.</li> </ol> | <ol style="list-style-type: none"> <li>1. Make sure proximity switch is staying covered with seed.</li> <li>2. Adjust pump proximity switch sensitivity by turning the adjustment screw clockwise.</li> <li>3. Set HMI screen to AUTO.</li> <li>4. Attach Auxiliary cable from control box to treater control box.</li> </ol> |
| Pump will not turn on in AUTO.<br>(Non-USC Seed Treaters)                     | <ol style="list-style-type: none"> <li>1. Two pin cable is not connected to the pump control panel or the seed treater.</li> <li>2. Signal to shut the pump off is not being sent from the treater.</li> <li>3. HMI screen not set to AUTO.</li> </ol>    | <ol style="list-style-type: none"> <li>1. Check to see that both ends of the cable are properly connected to their respective control panels.</li> <li>2. Check treater control panel to see if signal is being sent to pump controller.</li> <li>3. HMI screen not set to AUTO.</li> </ol>                                   |
| Mix Motor will not start  | <ol style="list-style-type: none"> <li>1. Power cord not plugged in.</li> </ol>   | <ol style="list-style-type: none"> <li>1. Plug in power cord.</li> </ol>  |