



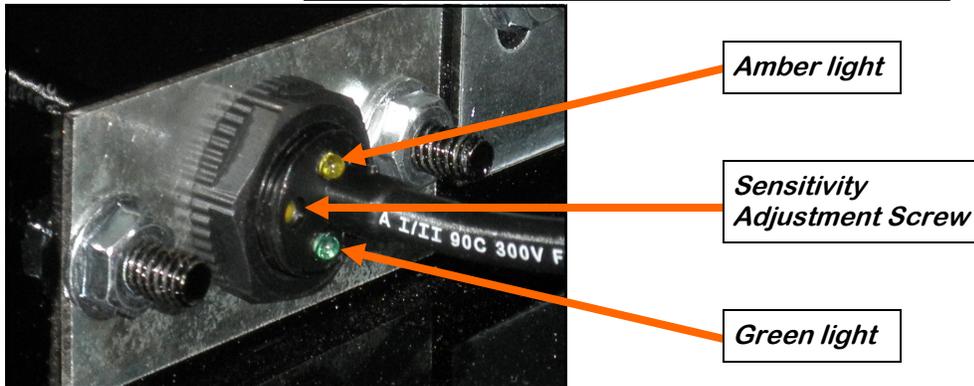
## TROUBLESHOOTING - SEED METERING

Below is a table describing the most frequent problems and solutions with the USC Seed Wheel. For further assistance, contact the USC Service department at (785) 431-7900.

Problem	Possible Cause	Solution
Pump will not turn off in AUTO when seed runs out.	<ol style="list-style-type: none"> <li>1. Proximity switch 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 (page 2).</li> </ol>
Pump will not turn on in AUTO”	<ol style="list-style-type: none"> <li>1. Proximity switch is not staying covered.</li> <li>2. Atomizer or Seed Wheel is not on.</li> <li>3. Proximity switch is not sensitive enough.</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure proximity switch is staying covered with seed.</li> <li>2. Turn on Atomizer and Seed Wheel. Atomizer and Seed Wheel must be on to run pump #1 <u>and</u> #2 in Auto.</li> <li>3. Adjust pump proximity switch sensitivity by turning the adjustment screw clockwise (page 2).</li> </ol>
Seed Wheel will not turn on.	<ol style="list-style-type: none"> <li>1. VFD inside of control panel has a fault.</li> <li>2. Loose wire connection.</li> <li>3. Incorrect incoming power.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check VFD for faults. Shut off power until the VFD turns off completely, then restore power to seed wheel.</li> <li>2. Check all wire connections.</li> <li>3. Check incoming power. Should be 120 volts.</li> </ol>
Seed Wheel keeps shutting off	<ol style="list-style-type: none"> <li>1. Seed Wheel drawing too many amps.</li> <li>2. Seed Wheel is binding.</li> <li>3. Seed Wheel is incorrectly mounted.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check motor amperage.</li> <li>2. Check to make sure nothing is pressing down on the seed wheel.</li> <li>3. Loosen up the seed wheel from the seed treater and check again.</li> </ol>
Chemical rates are off; I am applying to much or not enough chemical.	<ol style="list-style-type: none"> <li>1. Pockets in seed wheel are not staying full.</li> <li>2. Calculations are off.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure that the pockets are staying full while treating.</li> <li>2. Re-check calculations. If this is the first batch treated, you may have to adjust your numbers in the formula.</li> </ol>

Problem	Possible Cause	Solution
Seed is backing up into the seed wheel	<ol style="list-style-type: none"> <li>1. Seed gate on treater is closed down.</li> <li>2. Seed wheel is turning too fast.</li> <li>3. Restriction above seed gate.</li> </ol>	<ol style="list-style-type: none"> <li>1. Open seed gate wide open.</li> <li>2. Slow down the seed wheel to accommodate your seed treater.</li> <li>3. Remove restriction.</li> </ol>

### **PROXIMITY SWITCH ADJUSTMENT GUIDE**



The proximity switches mounted in the extension ring and the seed wheel detect when seed is present.

The proximity switch located in the extension ring is used to automatically shut off the inlet conveyor when the surge hopper is full. This proximity switch is not present on tower systems.

The proximity switches located in the seed wheel automatically shut off the pump when all seed has left the hopper.

If the proximity switch is not working properly, this can be caused by wear, dust, or even moisture. The first step is to clean the lens of the proximity switch. If this does not solve the problem, the next step would be to adjust the sensitivity of the proximity switch.

The green light indicates the power status. If it is active the device is powered.

The amber light indicates when seed is being detected. If it is active it detects seed, if inactive it does not detect seed.

Using the small screwdriver provided inside the control panel, you can adjust the proximity switch by turning the adjusting screw on the back of the proximity switch.

- Turn Clockwise to make the proximity switch more sensitive.
- Turn Counterclockwise to make the proximity switch less sensitive.