

TROUBLESHOOTING

Below is a table describing the most frequent problems and solutions with the USC Tri - Flo ® bin site system. For further assistance, contact USC at (785) 431-7900.

Problem	Possible cause	Solution
Tri - Flo ® : Minimum flow rate alarm.	Running too low capacity.	Adjust your air gates or manual gates.
Tri - Flo ® : Indicator weight shows two pounds in bin after run.	Tri - Flo ® did not empty completely.	Open gates on the Tri - Flo ® and zero scales.
Tri - Flo ® : Scale will not zero out.	 Scale is in filing mode. Scale is to far out of range. 	Exit filling mode then end run. Needs to be in shipping mode. Recalibrate scale
Tri - Flo ®: Even when all three scales are zeroed on Batch, the next batch gives a negative number on one of the hoppers with an overweight Alarm.	 Tri - Flo ® was not emptied before zeroed. Wind drafts. Hoppers are touching. 	 Open gates and zero scale. Close doors. Loosen the four mounting bolts enough to be able to move the hopper. Make the gap on both sides of the hopper as even as possible.
Tri - Flo ® : If there are five pounds or less in the hopper, the system will not empty hopper.	Scale heel weight has not been reached.	Open and close the gate hopper.
System is not consistently calibrating correctly.	 Bin slides gates or manual gates have been moved. Underbin conveyor belt is slipping. Bin slide gate is not consistently opening to the same point. The operator is pressing the "Cancel Scale Fill" button before the run ends. System is being paused during the run. 	 Ensure that the slide gate collar and manual gate is locked into place. Then recalibrate. Tighten the underbin conveyor belt. Check for any obstruction that may be restricting the movement of the slide gate. Allow the system to shutdown on its own. Make another run without pausing system.

Problem	Possible Cause	Solution
System calibration for currently selected bin is incorrect.	System is too far out of calibration to recalibrate automatically.	Recalibrate the system.
Weight display not reading steady (Bouncing)	Wind drafts. Bad load cell.	 Close doors. Replace load cell.
Scale is reading incorrect weight.	 Something is touching the scale. Scale needs recalibrated. 	Ensure that the area around the scale is clean and that nothing is leaning on or resting on the hopper.
		Zero scale. If still incorrect, have a professional scale technician recalibrate the scale.
No Tri - Flo ® slide gates will open or close when their corresponding button is pressed on the touch screen.	 No air or not enough air is being supplied to the air regulator / filter on the frame cross member. The Tri - Flo ® PLC may be off. 	 Ensure that at least 100 psi of air is being supplied to the regulator and it is adjusted for a minimum output of 45 PSI. Also, check to see that the filter is clean and no water has built up above the maximum allowed line. Ensure that the Tri - Flo ® control panel has power to it, is ON and that all of the breakers inside the panel are ON as well.
No bin slide gates will open or close when their corresponding button is pressed on the touch screen.	 No air or not enough air is being supplied to the solenoid bank on the side of the bin site control panel. The bin site PLC may be off. 	 Ensure that at least 100 psi of air is being supplied to the solenoid bank. Ensure that the bin site control panel has power to it, is ON and that all of the breakers inside the panel are ON as well.
Air gate will not close fully.	 Something is obstructing the air gate from closing. Air pressure to the gate is not strong enough. 	 Remove obstruction. Ensure that the bin slide gate has at least 100 psi of air being supplied to it. If it is a Tri - Flo ® slide gate it needs at least 45 PSI.
Air gate is opening when it should be closing and vice versa.	Air lines to the air gate are reversed.	Exchange air line for the proper solenoid on the back of the solenoid bank.



Problem	Possible Cause	Solution
Diverter is leaking seed through bypass side while in TREAT mode of operation.	 Too low of air pressure to actuate the diverter. An obstruction in the diverter is stopping correct placement of the diverter plate. 	 Ensure that at least 100 psi of air pressure is present at the diverter. Remove obstruction.
Solenoids are making a buzzing sound when air gates are actuated.	 Moisture in the air system. Electric actuator on solenoid bank may be faulty. 	 Remove moisture from the air lines. Replace the electronic actuator on the solenoid.
The touch screen has warning triangles on each button.	The bin site PLC may be off. The Tri - Flo ® panel may be off. off.	 Ensure that the bin site control panel has power to it, is ON and that all of the breakers inside the panel are ON as well. Ensure that the Tri - Flo ® control panel has power to it, is ON and that all of the breakers inside the panel are ON as well.
Conveyor will not start in HAND or AUTO mode.	 Conveyor motor starter is tripped. Conveyor is clogged. 	Reset motor starter. Remove obstruction or debris.

