Flowmeter

Symptom	Correction

Inaccurate Rates	- Check flow meter tag and make sure the number is programmed properly (X/10gal, X/10lbs N)
	- Clean the strainer before the flow meter
	- Verify that the speed input is correct.
	- Verify speed with a distance calibration.
	- Verify on coolers that the vapor dump tube hose barb is not plugged and verify vapor product is coming out of the drop tubes
	- Verify product flow corresponds to the direction of the arrow on the flow meter.
	- Check cables to make sure there are no breaks or bare wires.
	- Check voltages on the flow cables (see following page on procedures).
	- If cables check out replace flow meter sensor
	  For old style 1-063-0171-666 use part# 1-063-0171-669.
	  For new style 1-063-0173-867 use part# 1-063-0172-004.
	- If issue is not corrected replace flow meter Part# 1-063-0173-867

Rate reads "0000" Only SCS Consoles	- Verify that you have a speed input in the monitor - Check voltages on the flow cables (see below)
Rate does not change in either manual or automatic mode	- Refer to Control valve trouble shooting.

Flowmeter Troubleshooting

Keyway in 12 o'clock position

3 Pin Connector
2 o'clock Ground
6 o'clock Signal
10 o'clock Constant 5V(12V Topcon and ICON)

2 to 10 - 5V Constant
2 to 6 - 5V Signal

On 16 Pin Harness
Pin 11 Ground
Pin 12 Constant
Pin 13 Signal

11 to 12 - 5V Constant
11 to 13 - 5V Signal

On 37 Pin Harness
Pin 21 Ground
Pin 25 Constant
Pin 28 Signal

21 to 25 - 5V Constant
21 to 28 - 5V Signal

PROCEDURE TO CHECK SIGNAL CABLE:
1) Enter a METER CAL number of one
2) Depress key labelled
3) Place BOOM switches to ON.
4) With small jumper wire (or paper clip), short between the 2 o'clock and 6 o'clock
Sockets with a "short-no short" motion. Each time a contact is made, the TOTAL
VOLUME should increase by increments of 1 or more counts.
5) If TOTAL VOLUME does not increase, remove the section of cable and repeat test
at connector next closest to Console. Replace defective cable as required.
NOTE: After testing is complete, re-enter correct METER CAL numbers before application