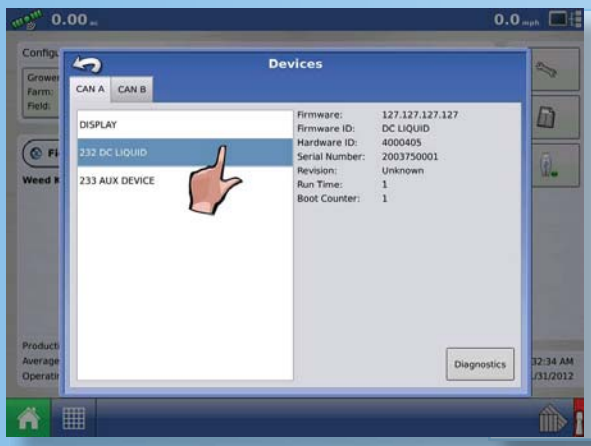
How to Test a Flow Meter

This document walks you through the process of testing your flow meter connection to see if we can read pulses by simulating them.

1. Go to Liquid Diagnostics.

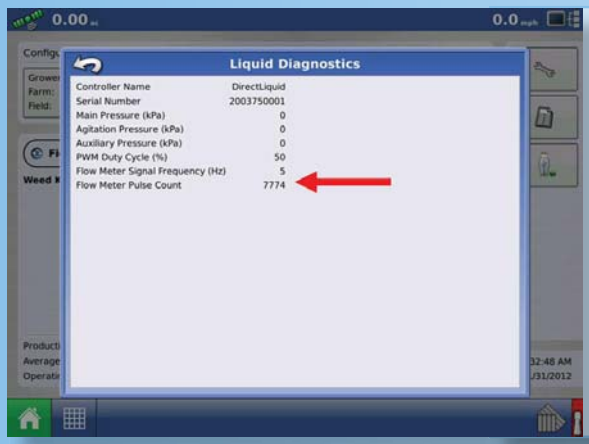
a. Press the System Button.



b. Select 232 DC Liquid.

c. Press Diagnostics.

1. Go to Liquid Diagnostics. continued



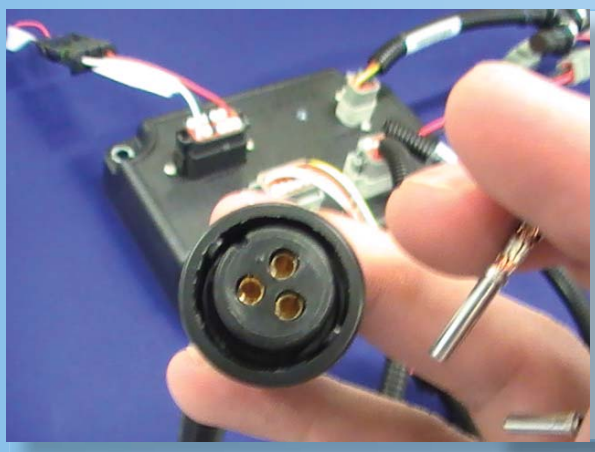
Watch the value for Flow Meter Pulse Count. With product flowing through the flow meter this value should count up. It should count up regardless of the Master Switch being On or Off.

If the value does not increase with product running through the flow meter, we need to simulate a pulse at the Connection to the flow meter.

2. Unplug the flow meter connection.

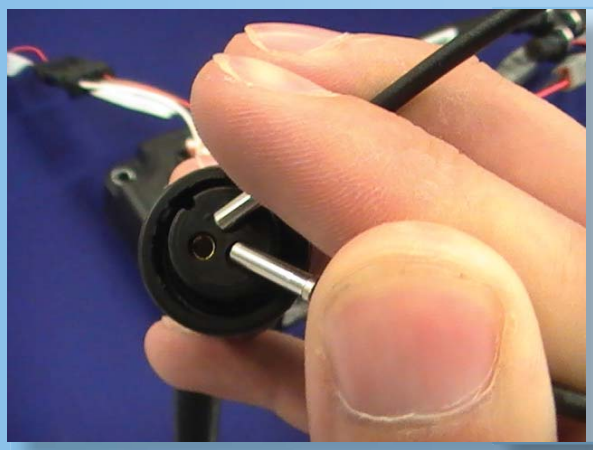
	Signal	Ground
Dickey John	C	B
Mid-Tech	C	A
Tee Jet	B	C
Hiniker	2	1

If using a Raven flow meter, jump the pins at 2 and 6 o'clock (ground and signal) with the notch at 12 o'clock. If using a supported flow meter other than Raven, use the pin outs shown on table.



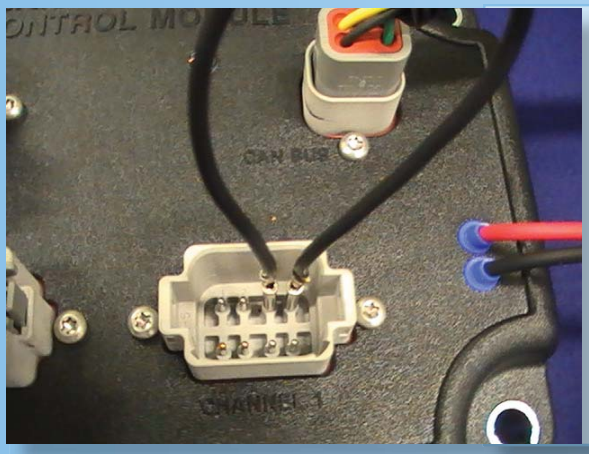
a. Jumping these two pins, you should see the Flow Meter Pulse Count value increase. The value won't necessarily increase by a specific amount. You merely want to see an increase. Make sure you are creating a pulse effect between the two pins by repeatedly removing and inserting one of the pins.

2. Unplug the flow meter connection. continued

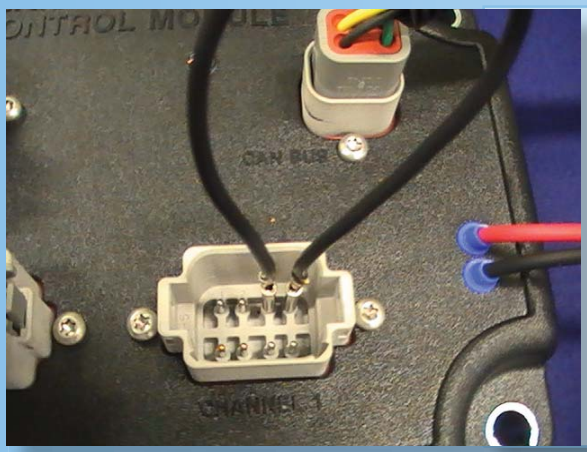


b. If the Flow Meter Pulse Count value increases then you most likely have an issue with your flow meter. If not, continue to step 3.

3. Unplugging Channel 1



a. If jumping the flow meter connection does not increase the Flow Meter Pulse Count value, trace back to the Liquid Product Control Module and jump pins 3 and 4 (signal and ground) on the Channel 1 port. Make sure you are creating a pulse effect between the two pins by repeatedly removing and inserting one of the pins.



b. If jumping these pins increases the Flow Meter Pulse Count value, then you most likely have an issue with the Control Valve/Flow Meter cable.

c. If jumping these pins doesn't increase the Flow Meter Pulse Count value, then you most likely have an issue with the liquid module.
The value should increase regardless of the High Current Power Connection being plugged in.