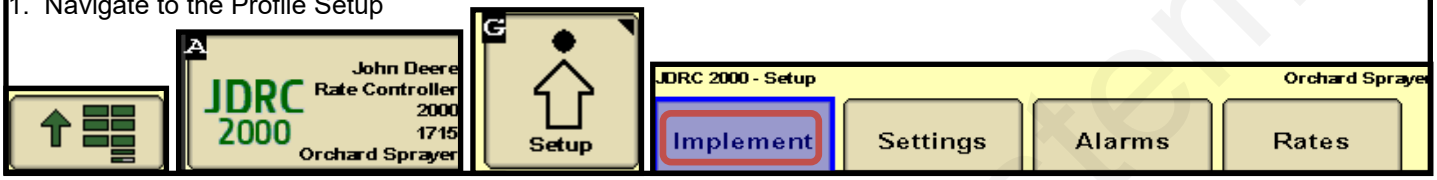
396-4138Y1 QuickStart Card

SureFire *Orchard Sprayer* System

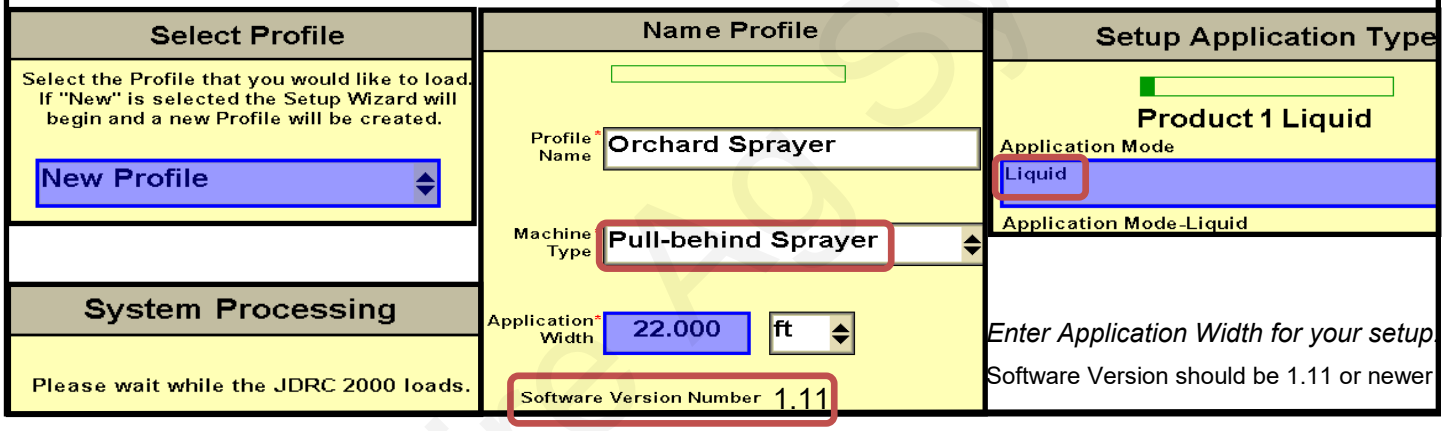
with Servo control for JDRC 2000

The following screenshots show the setup settings that are typically good initial settings. Actual settings on your system may vary from those shown here. Adjust settings as necessary in the field to get the best operation from your system.

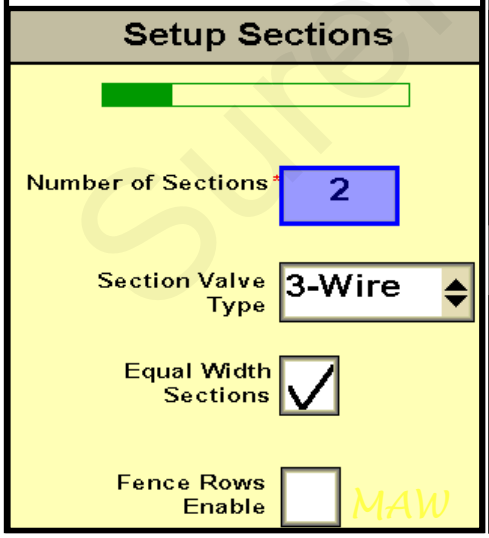
1. Navigate to the Profile Setup



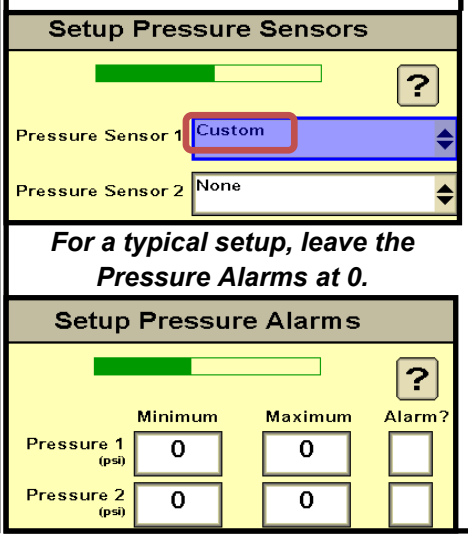
2. Enter a **Profile Name.** 3. **Machine Type > Pull-Behind Sprayer** 4. **Application Mode > Liquid**



5. Set up Sections as appropriate. Verify widths.



6. The SureFire pressure sensor will be set up as a **Custom** sensor. Calibration will be done later.

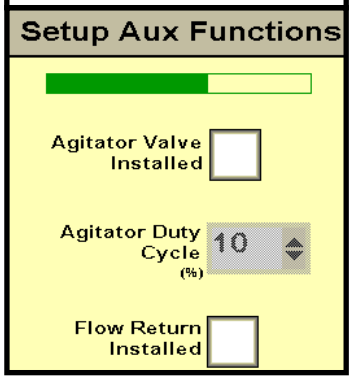


For a typical setup, leave the Pressure Alarms at 0.

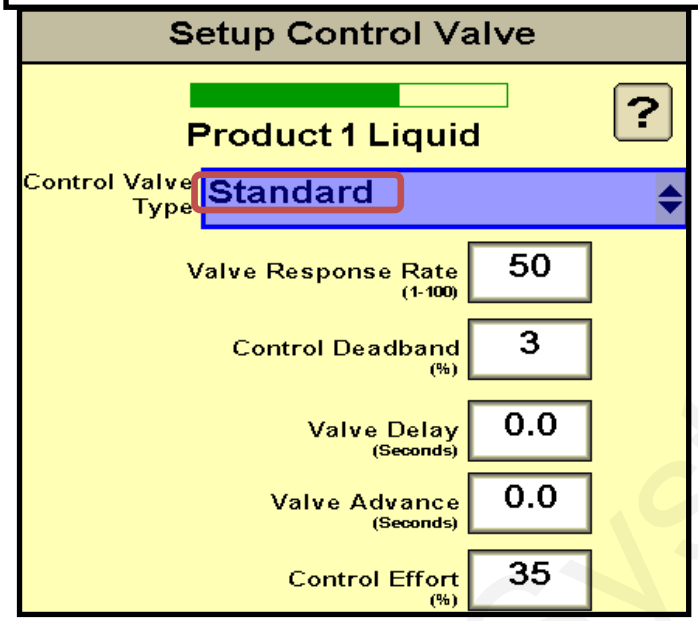
If Minimum and Maximum numbers are entered and the Alarm box is checked, those pressures will become control limits, and the system will not go above or below those limits. You may or may not want to do that. Set as desired for your setup.

*Your system will adjust the **flow** as your speed changes to maintain a **constant application rate**. The **pressure** will change as your speed changes.*

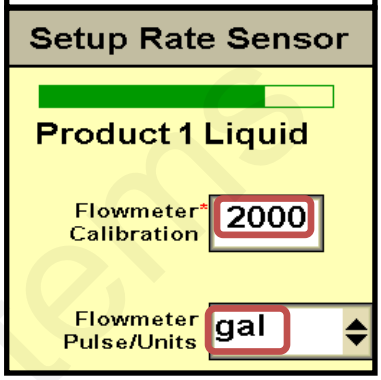
7. Set up **Aux Functions** as shown.



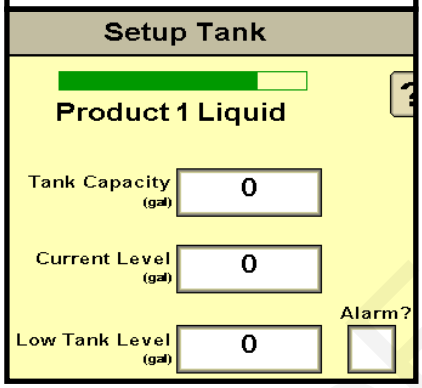
8. Control Valve Type > Standard
Start with the **Default Values (shown).**
Adjust as needed for stable rate and Quick response.
Use the "?" for Help Screens that explain each item.



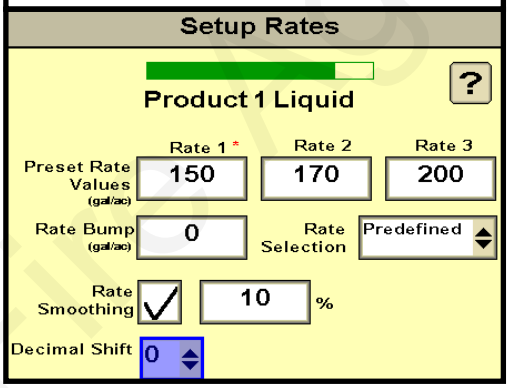
9. Set up **Rate Sensor (flowmeter)** as shown. (For SureFire Electromagnetic 0.6—13 gpm and larger flowmeters**).** *Flow cal number is printed on Serial Number label on side of flowmeter.*



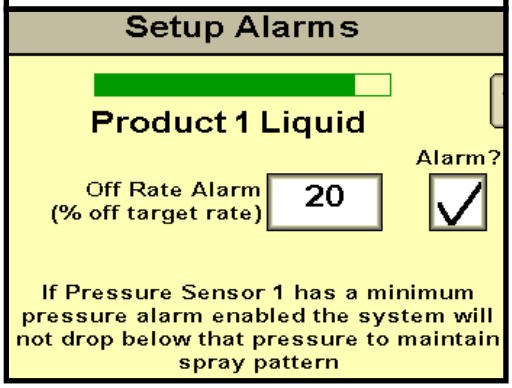
10. Tank Setup *(optional)*
Use as desired to keep track of Tank level. Tank level will show up on Run Screen.



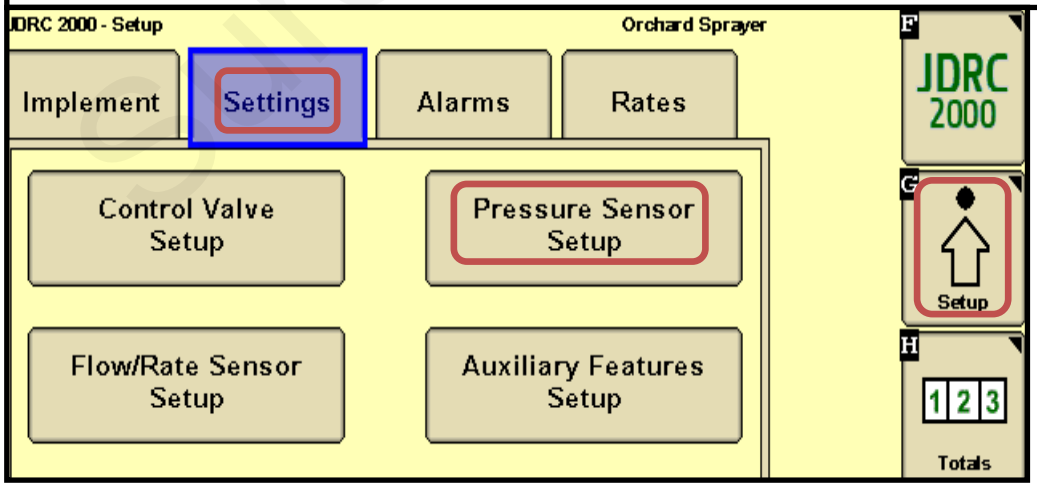
11. Rates-*Enter 1,2,or 3 Rates*
Set up other boxes as shown

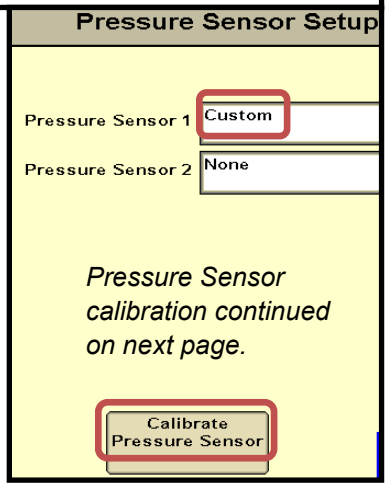


12. Off Rate Alarm *(optional)*
Start with 20%. Adjust as desired

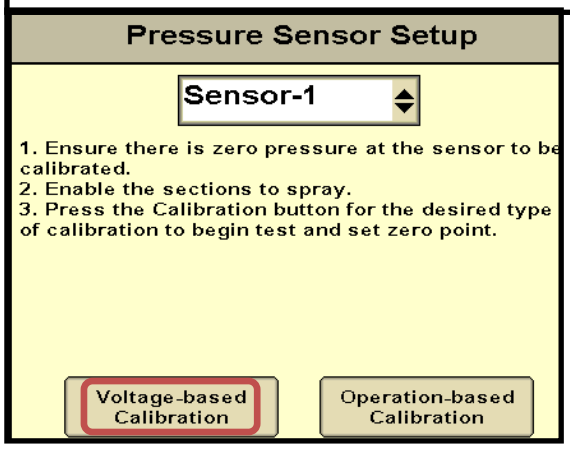


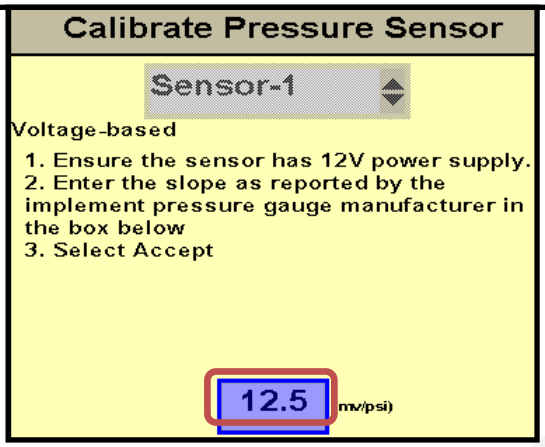
13. Pressure Sensor must be calibrated. Unplug sensor to calibrate. **Setup > Settings > Pressure Sensor Setup > Calibrate Pressure Sensor. Sensor 1 > Voltage Based Calibration.** Enter **12.5** mv/psi.

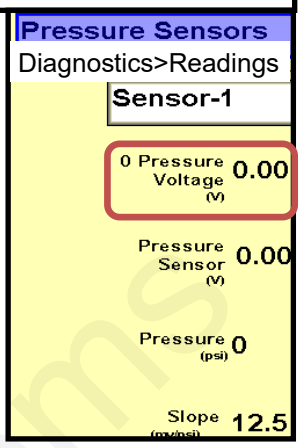




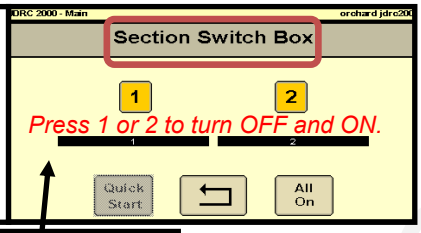
13. (cont) Pressure Sensor must be calibrated. Unplug sensor to calibrate. **Setup > Settings > Pressure Sensor Set-up > Calibrate Pressure Sensor. Sensor 1 > Voltage Based Calibration.** Enter **12.5** mv/psi.

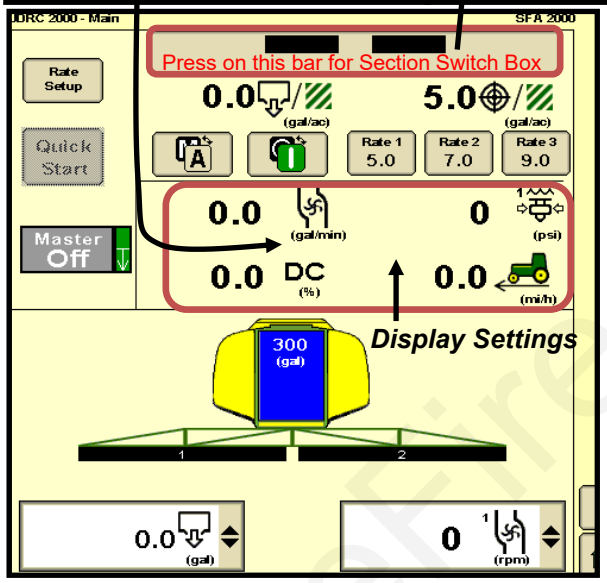


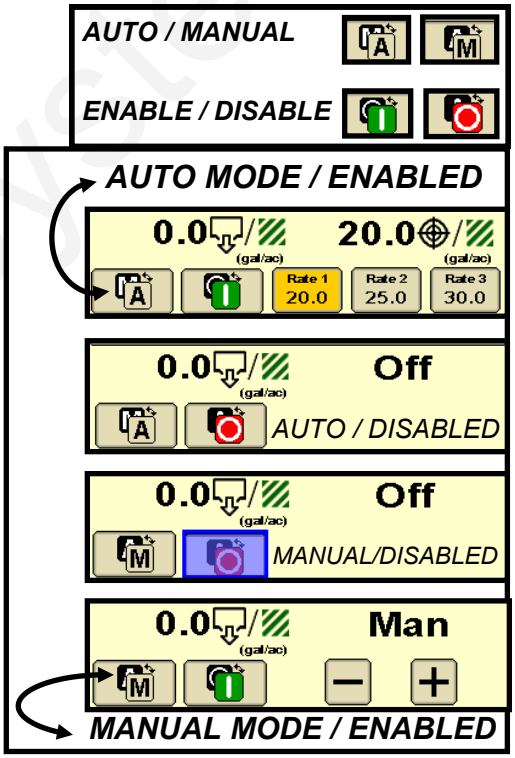




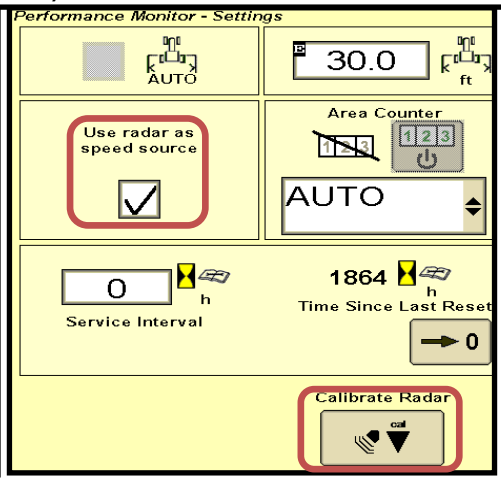
14. Set these 3 items in **Setup > Settings > Display Settings**
- ***Gal/min***
- ***Pressure (PSI)***
- ***Mi/hr***

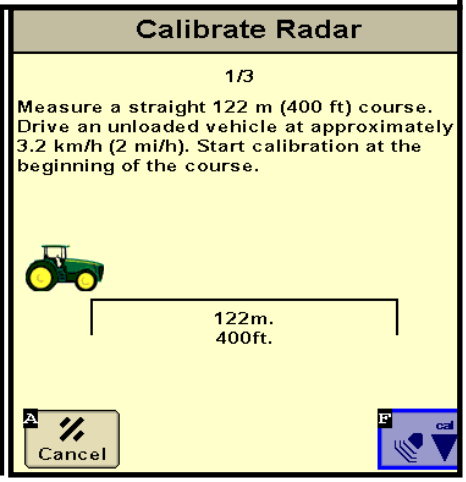




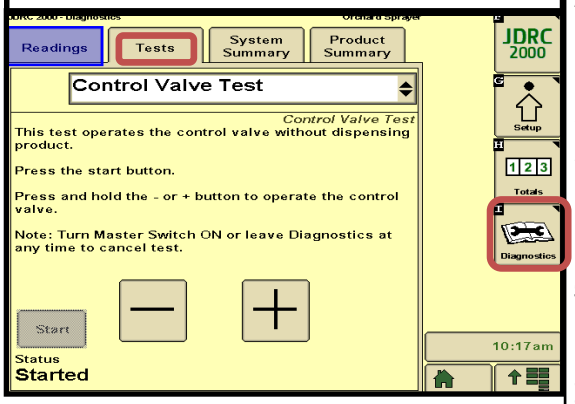


15. Radar Speed Sensor Setup (if needed)





16. Do the ***Control Valve Test*** first to verify that the control valve is operating correctly. Leave the valve closed when finished.

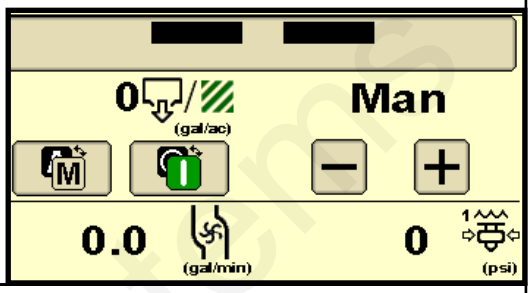


17. Initial Operation in *MANUAL* mode: (Or do *Control/Section Test*)

1. Fill the system with water.
2. Enter a *Test Speed* at *Setup > Implement*

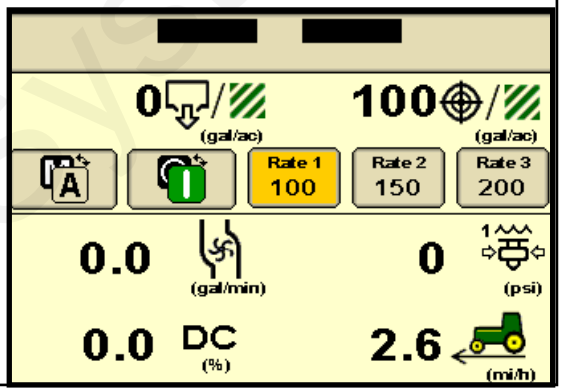
3. On the Run Screen go to *MANUAL MODE / ENABLED.*

4. Start pump. Turn on Master Switch. Press + to increase flow.
5. Read *Flow (gal/min), PSI, gal/ac* on Run Screen.
6. Go to *Section Switch box (above). Reduce Flow.* Turn Sections OFF and ON.
7. Turn Master Switch OFF.

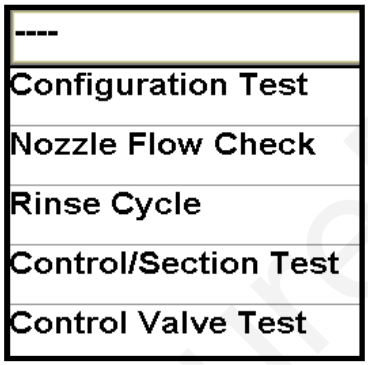


18. Initial Operation in *AUTO* mode: (Or do *Diagnostics > Tests > Nozzle Flow Check).*

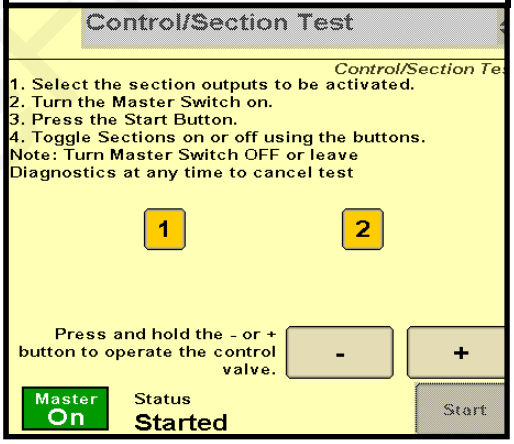
1. Enter a *Test Speed* at *Setup > Implement*
2. Navigate to *AUTO MODE / ENABLED.* Select a *Rate.* Start with a lower rate on the first startup.
3. Turn on *Master Switch.*
4. Monitor *Actual Rate (gal/ac), Flow (gal/min), PSI.* You can switch rates while the system is running.
5. Go to *Section Switch box* (above). Turn *Sections OFF and ON.*
6. Turn *Master Switch OFF.*



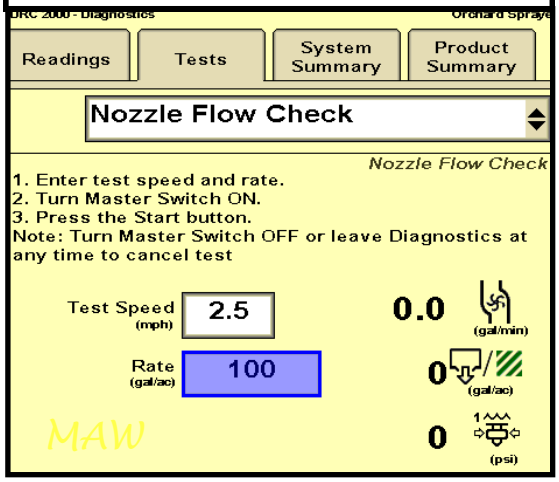
Diagnostics > Tests > Pulldown Menu



Do the ***Control/Section Test*** to see if the section valves work and to operate the Control Valve.



Do the ***Nozzle Flow Check*** to test operation at a Test Speed and Rate.



Go to *Diagnostics > System Summary* for a quick look at the System Settings.

Go to *Diagnostics > Product Summary* for a quick look at the settings for each product setup.

Go to *Diagnostics > Readings* for important information and feedback: *Hardware/Software, Delivery System, Section Status, System Voltage, Pressure Sensors, and more.*