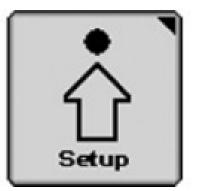


Dual Product Setup
John Deere
Rate Controller 2000
Lynx Q2 Dry Box

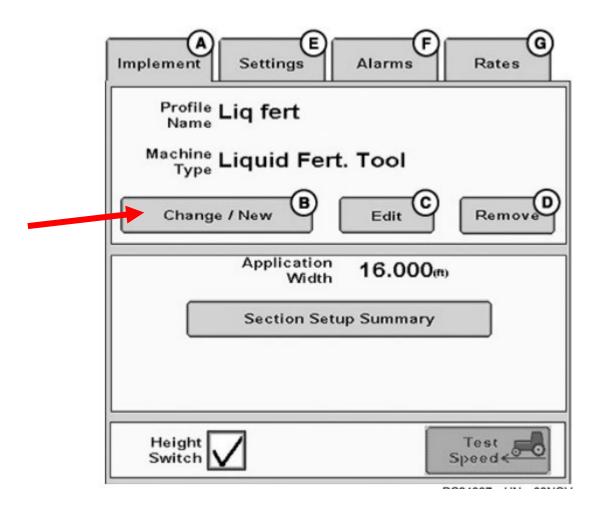
• Open the Rate Controller 2000 Main page by selecting the Rate Controller 2000 Icon



• To begin setup select the Setup Softkey



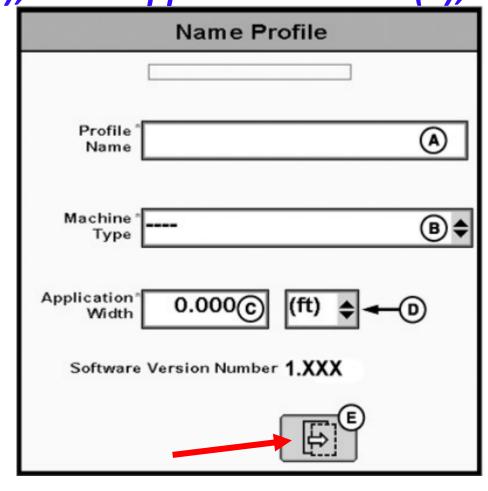
• Under the Implement Tab (A), select Change/New (B)



• Select New Profile from the drop down menu (H), Then Press Accept (I)

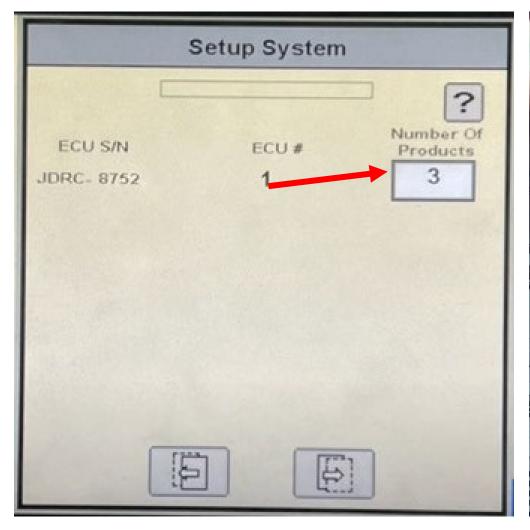


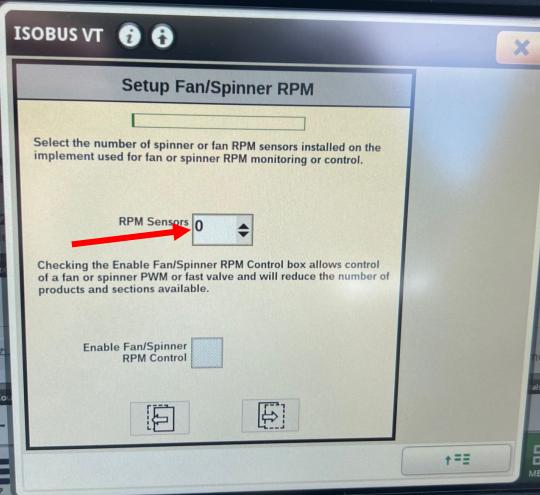
• Create a Profile Name (A), Select NH3 Machine as Machine Type (B), enter Application Width (C), and press the next Icon (E)



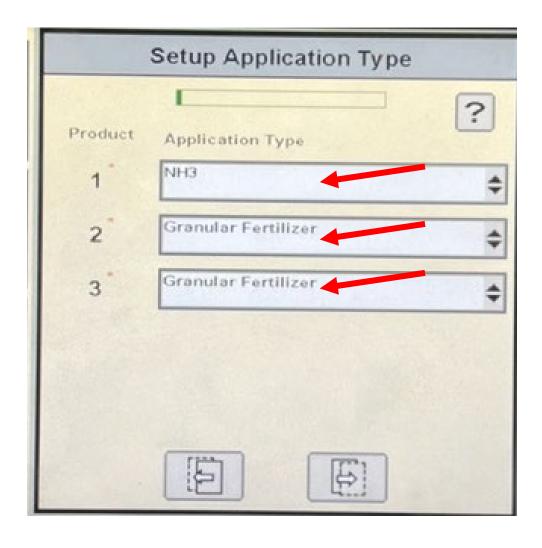


- Under Setup System enter 3 for the number of products
- Under Setup Fan Select "0" from the RPM Sensors dropdown

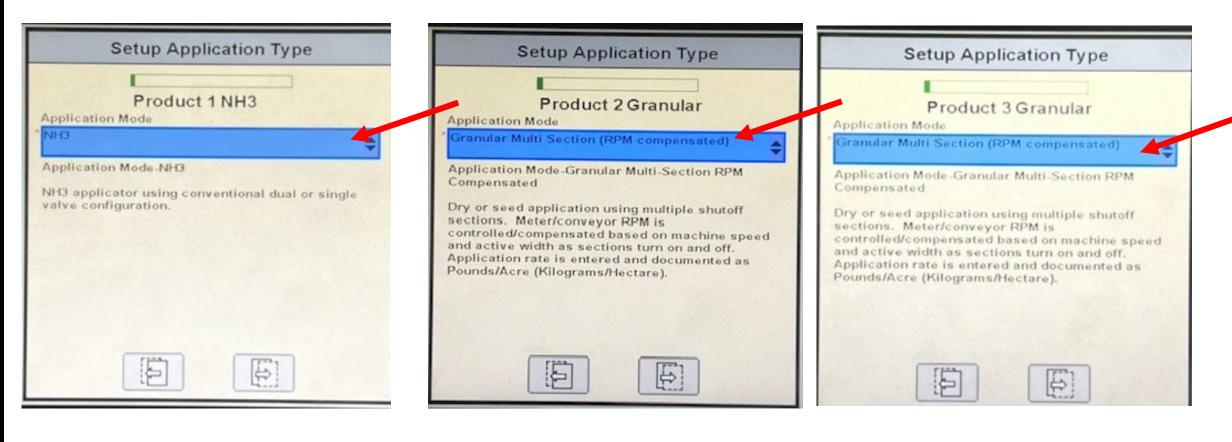




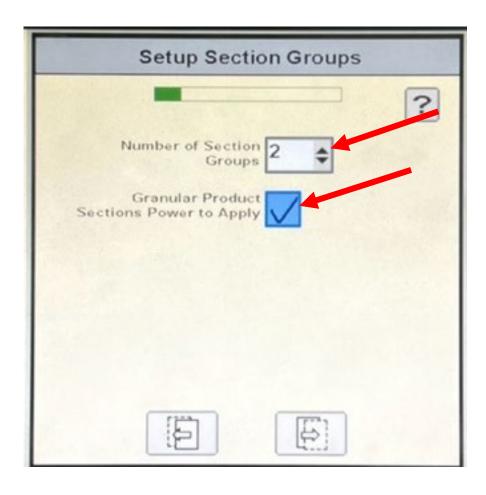
- Under Setup Application Type select "NH3" for Product 1
- Select "Granular Fertilizer" for Products 2 and 3



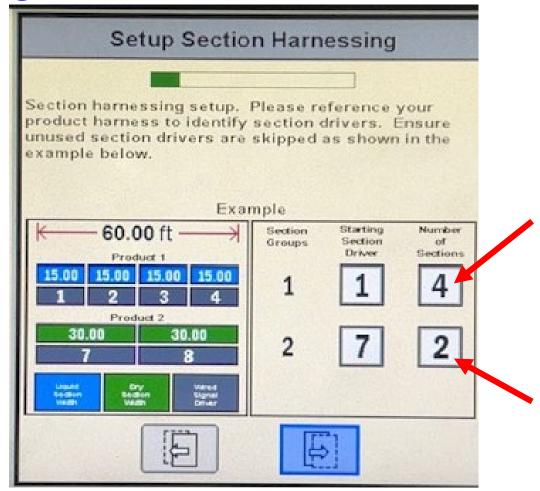
- Under Setup Application Type select "NH3" for Product 1 Application Mode
- Select "Granular Multi Section (RPM compensated)" for Products 2 and 3 Application Mode



- Under Setup Section Groups select "2"
- Check Granular Product Sections Power to Apply



- Under Setup Section Harnessing Enter "1" for Starting Section Driver and the correct number of sections for Section Group 1.
- Enter "7" for Starting Section Driver 2 and 2 Sections.

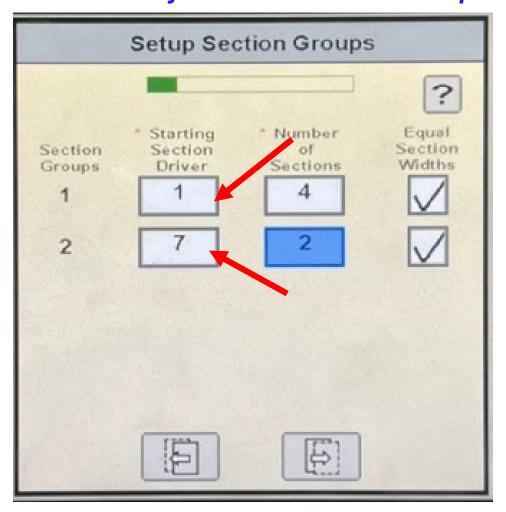


• Under Setup Section Groups Enter "1" for Starting Section Driver and the correct number of sections for Section Group 1 and select "Equal Section Widths".

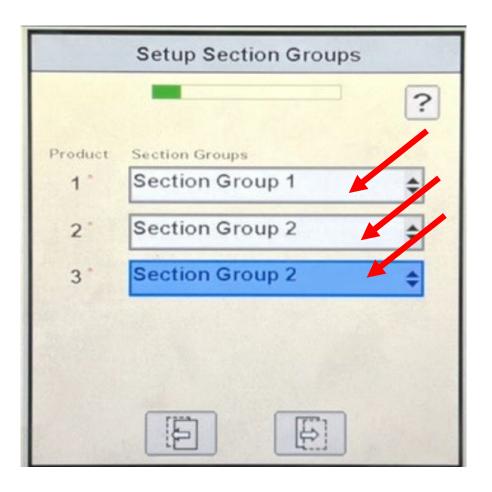
• For Section Group 2 Enter "7" as the Starting Section Driver and the correct number of Sections and select "Equal Section Widths"

• The first 6 section groups are reserved for NH3 so Section Group 2 needs to start at 7

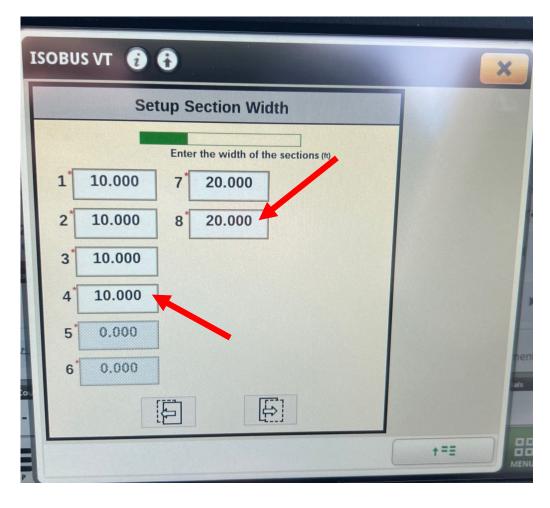
or higher

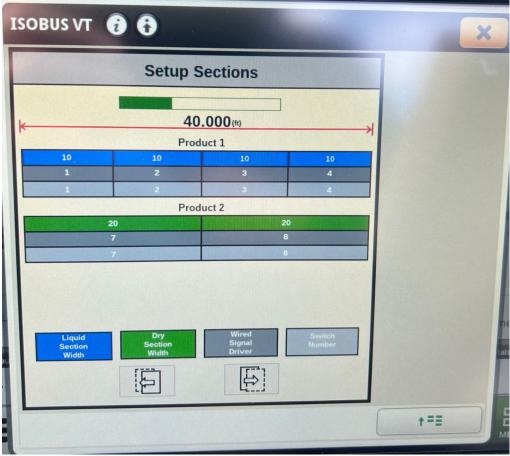


- Under Setup Section Groups select "Section Group 1" for Product 1
- Select "Section Group 2" for Product 2
- Select "Section Group 2" for Product 3



• Under Setup Section Width enter the correct width for each section.





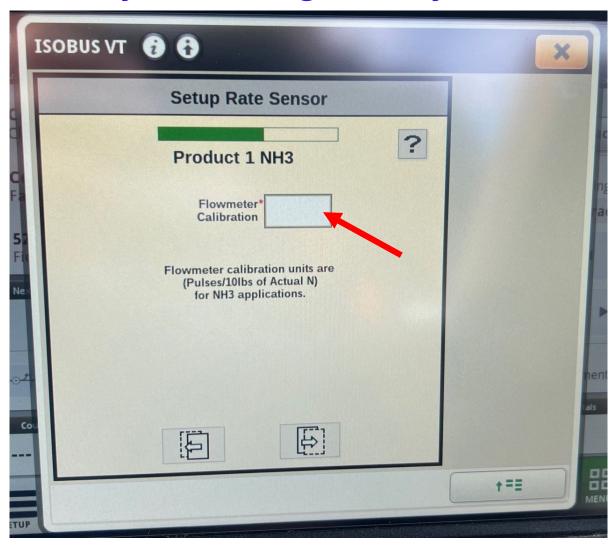
## • Under Setup Pressure Sensors select "None"



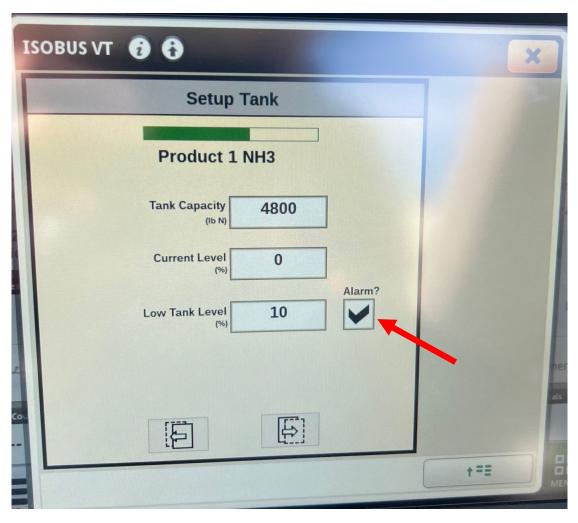
- Under Setup Control Valve-Product 1 NH3 select "Dual Valve/STD" under Control Valve Type
- Enter "50" for Valve Response Rate
- Enter "3" for Control Deadband
- Enter "0" for Valve Delay
- Enter "35" for Control Effort



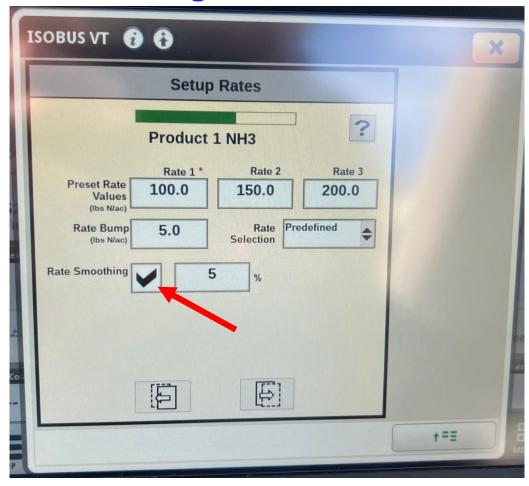
• Under Setup Rate Sensors-Product 1 NH3 enter the Flowmeter Calibration number from the tag on the flow meter



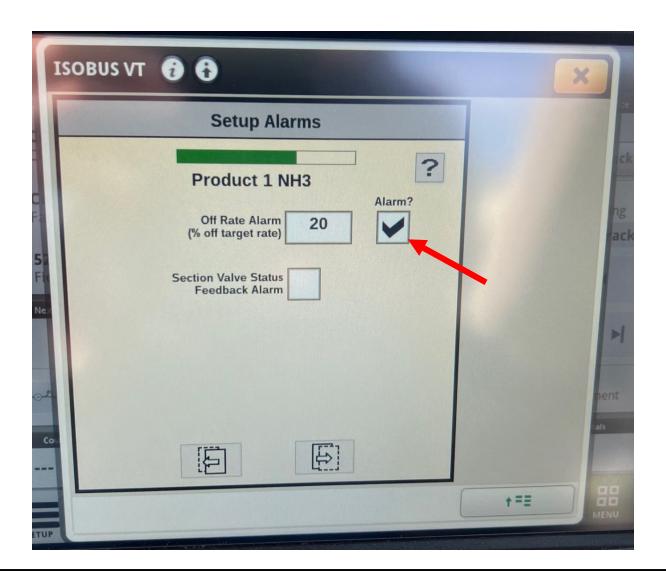
- Under Setup Tank-Product 1 NH3 enter the desired Tank Capacity and
- Enter "10" for Low Tank Level and check "Alarm?" box



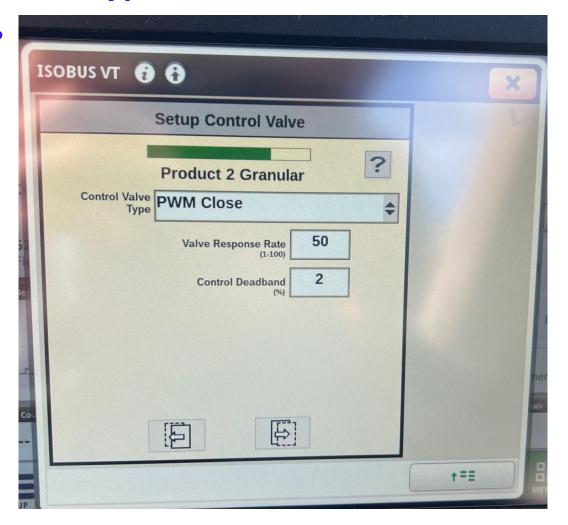
- Under Setup Rates-Product 1 NH3 enter the desired Preset Rate Values
- Enter "5" for Rate Bump
- Enter "5" for Rate Smoothing and check Rate Smoothing Box



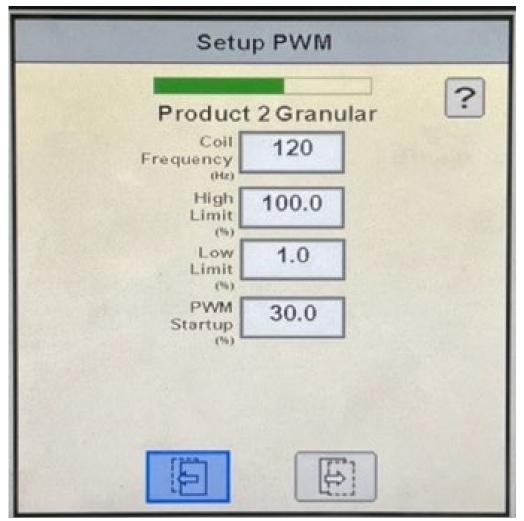
• Under Setup Alarms-Product 1 NH3 enter the desired Off Rate Alarm and select the "Alarm?" Checkbox



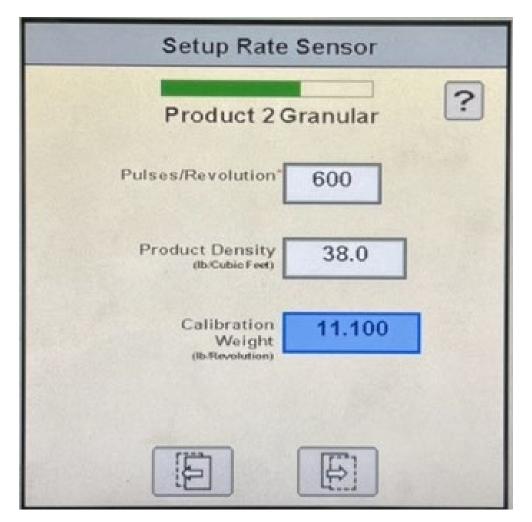
- Under PWM Setup Valve-Product 2 Granular select "PWM Close" under Control Valve Type
- Enter "50" for Valve Response Rate
- Enter "2" for Control Deadband



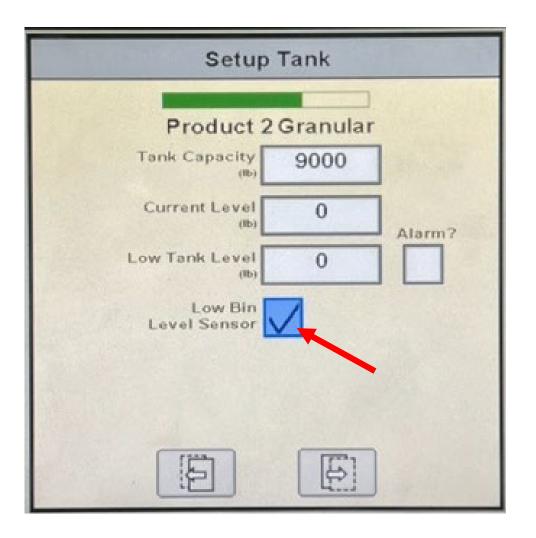
- Under Setup PWM-Product 2 Granular enter "120" for Coil Frequency
- Enter "100" for High Limit
- Enter "1" for Low Limit
- Enter "30" for PWM Startup



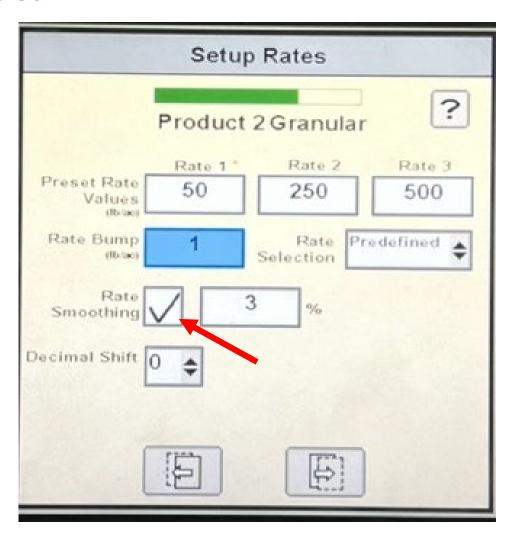
- Under Setup Rate Sensor-Product 2 Granular
- Enter "600" for Pulses/Revolution
- Enter "38" for Product Density
- Enter Calibration Weight
  - Calibration Weight=1.2 x # of rows



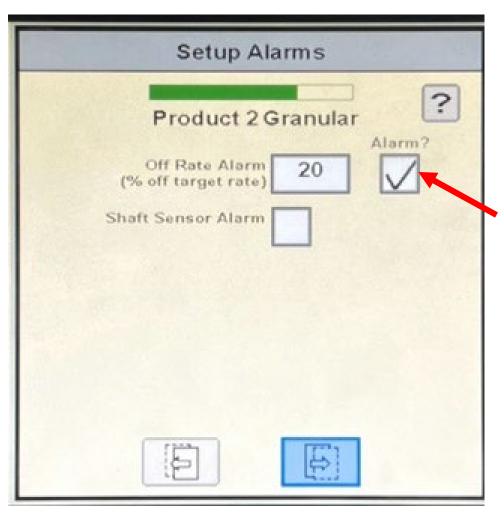
- Under Setup Tank-Product 2 Granular
- Enter "9000" for Tank Capacity
- Enter "0" for Low Tank Level
- Select "Low Bin Level Sensor" Checkbox



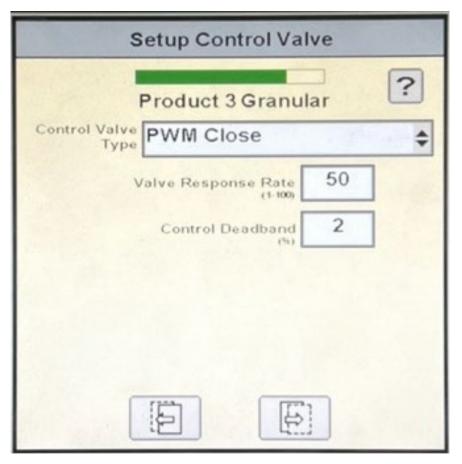
- Under Setup Rates-Product 2 Granular
- Enter Desired Preset Rate Values
- Enter "1" for Rate Bump
- Enter "3" for Rate Smoothing
- Select "Rate Smoothing" Checkbox



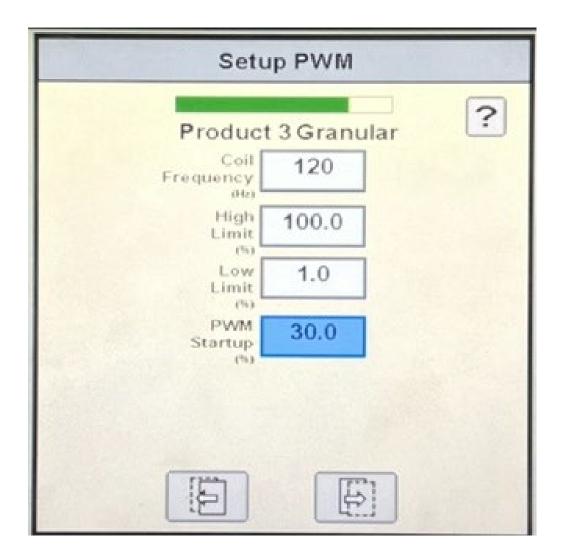
- Under Setup Alarms-Product 2 Granular enter the desired Off Rate Alarm and Dual Encoder Alarm
- Select the "Alarm?" Checkboxes



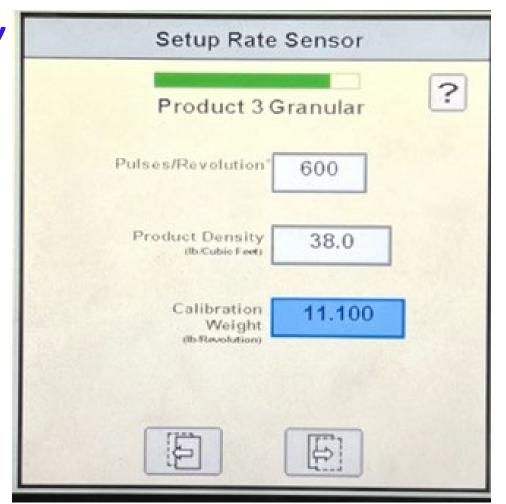
- Under PWM Setup Valve-Product 3 Granular select "PWM Close" under Control Valve Type
- Enter "50" for Valve Response Rate
- Enter "2" for Control Deadband



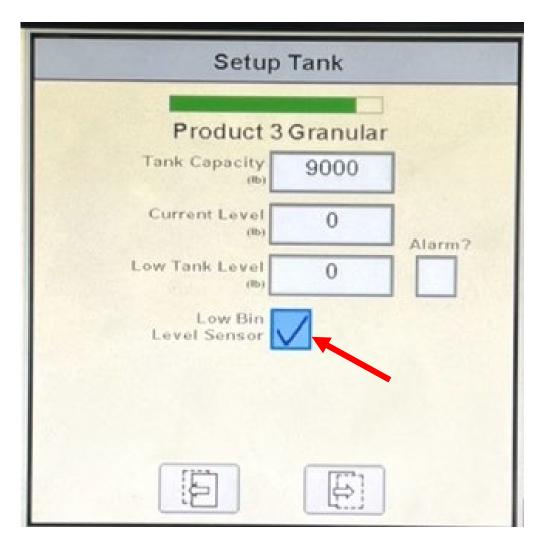
- Under Setup PWM-Product 3 Granular enter "120" for Coil Frequency
- Enter "100" for High Limit
- Enter "1" for Low Limit
- Enter "30" for PWM Startup



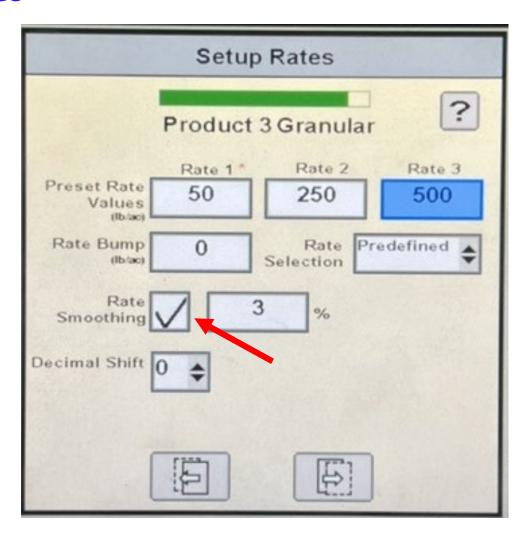
- Under Setup Rate Sensor-Product 3 Granular
- Enter "600" for Pulses/Revolution
- Enter Correct Value for Product Density
- Enter Calibration Weight
  - Calibration Weight=.69375 x # of rows



- Under Setup Tank-Product 3 Granular
- Enter "9000" for Tank Capacity
- Enter "0" for Low Tank Level
- Select "Low Bin Level Sensor" Checkbox



- Under Setup Rates-Product 3 Granular
- Enter Desired Preset Rate Values
- Enter "1" for Rate Bump
- Enter "3" for Rate Smoothing
- Select "Rate Smoothing" Checkbox



- Under Setup Alarms-Product 3 Granular enter the desired Off Rate Alarm and Dual Encoder Alarm
- Select the "Alarm?" Checkboxes



- Setup is now complete
- Select "Accept" to close the Setup Wizard

