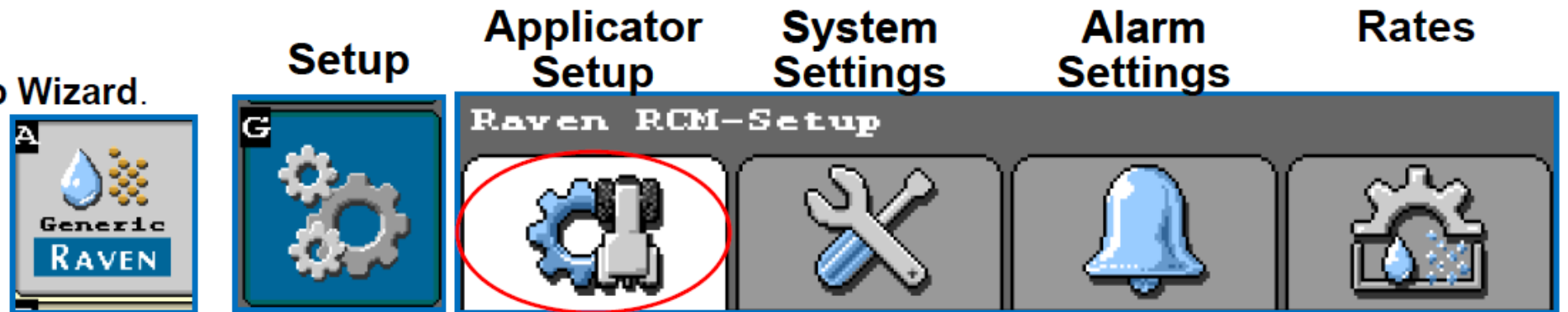




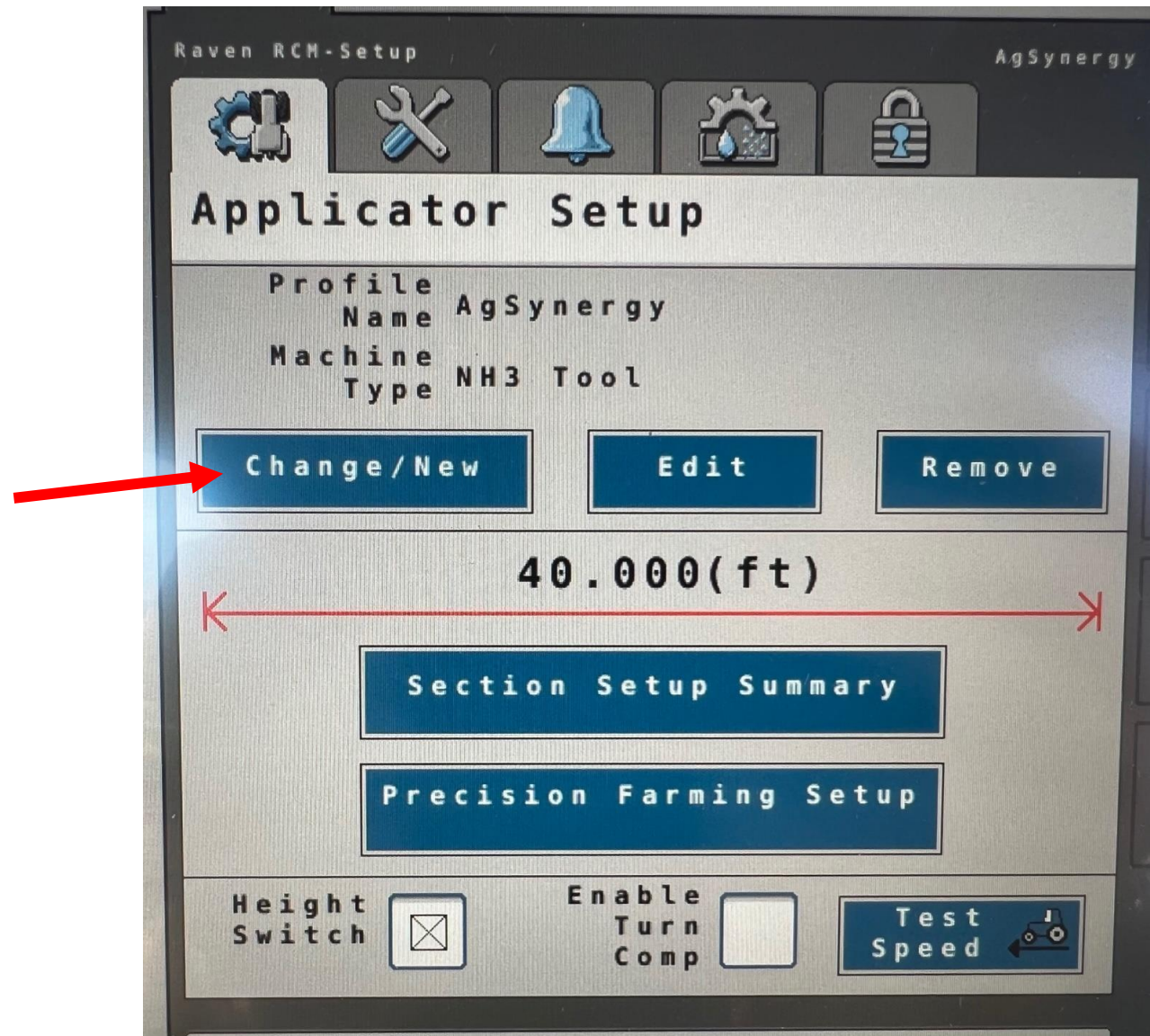
TR 430 440
Dual Product Setup
Raven RCM
Lynx Q2 Dry Box



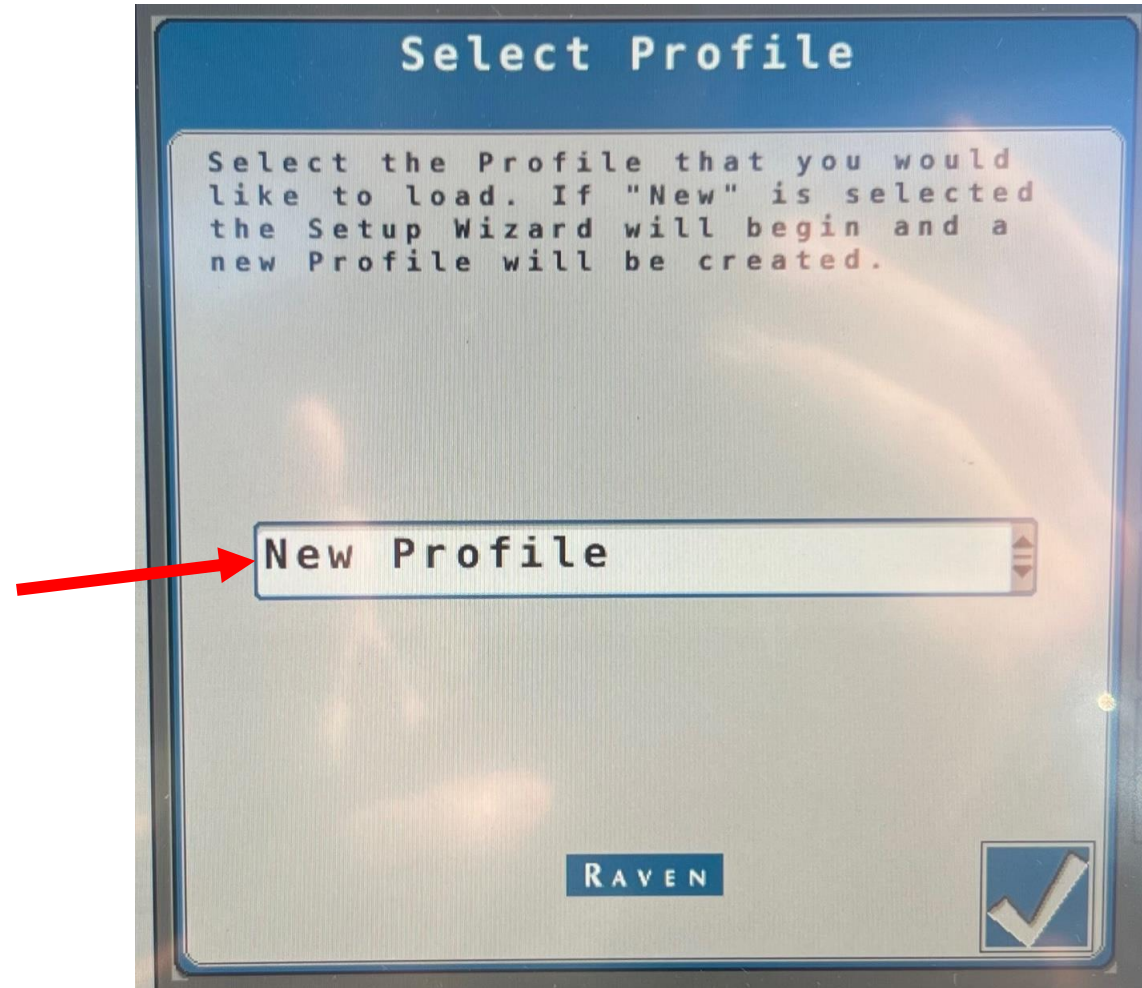
1. Navigate to the **Setup Wizard**.



- *Under Applicator Setup, select Change/New (B)*



- *Select New Profile from the drop down menu, Then Press Accept*



- *Create a Profile Name , Select NH3 Machine as Machine Type, enter Application Width , and press the next Icon.*

Name Profile

Profile Name

* AgSynergy TR440 Lynx

Machine Type

* NH3 Tool

Application*
Width 40.000 (ft)

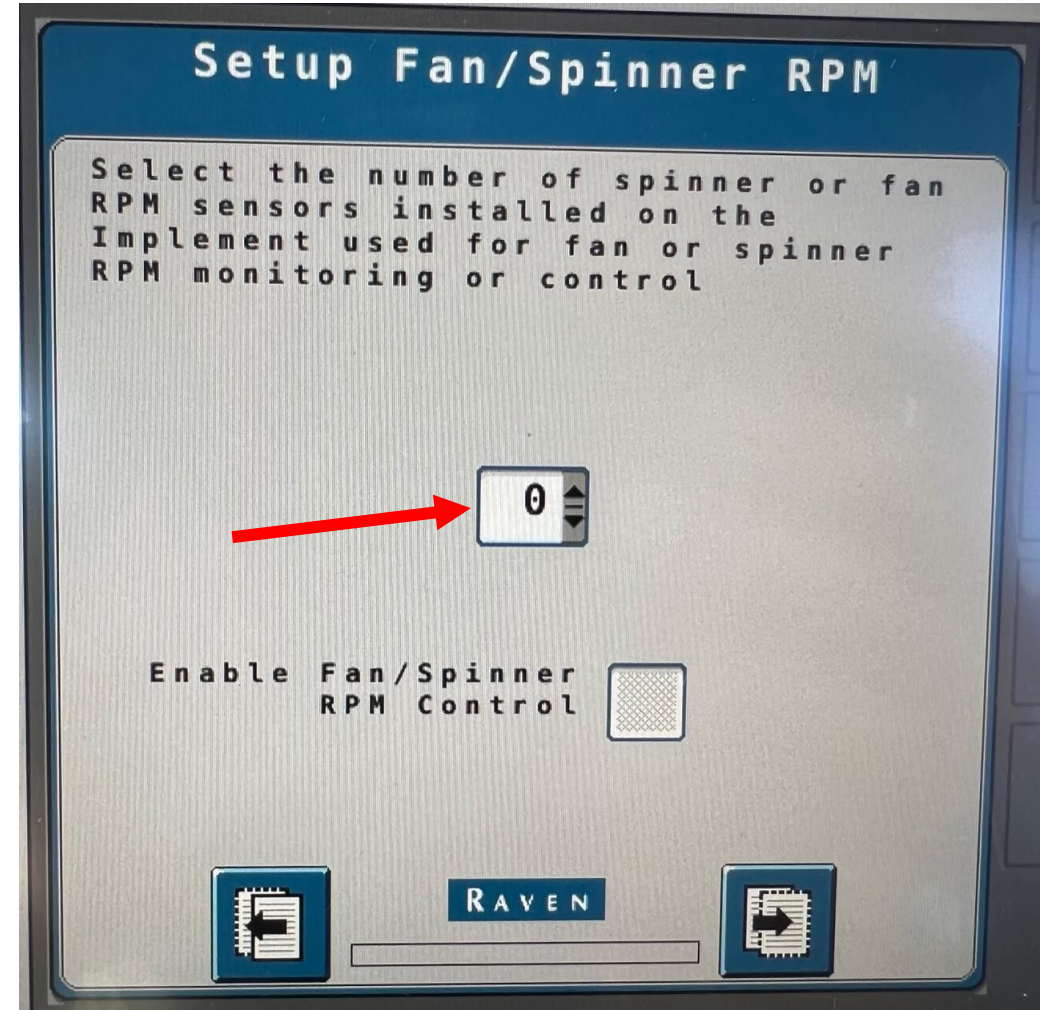
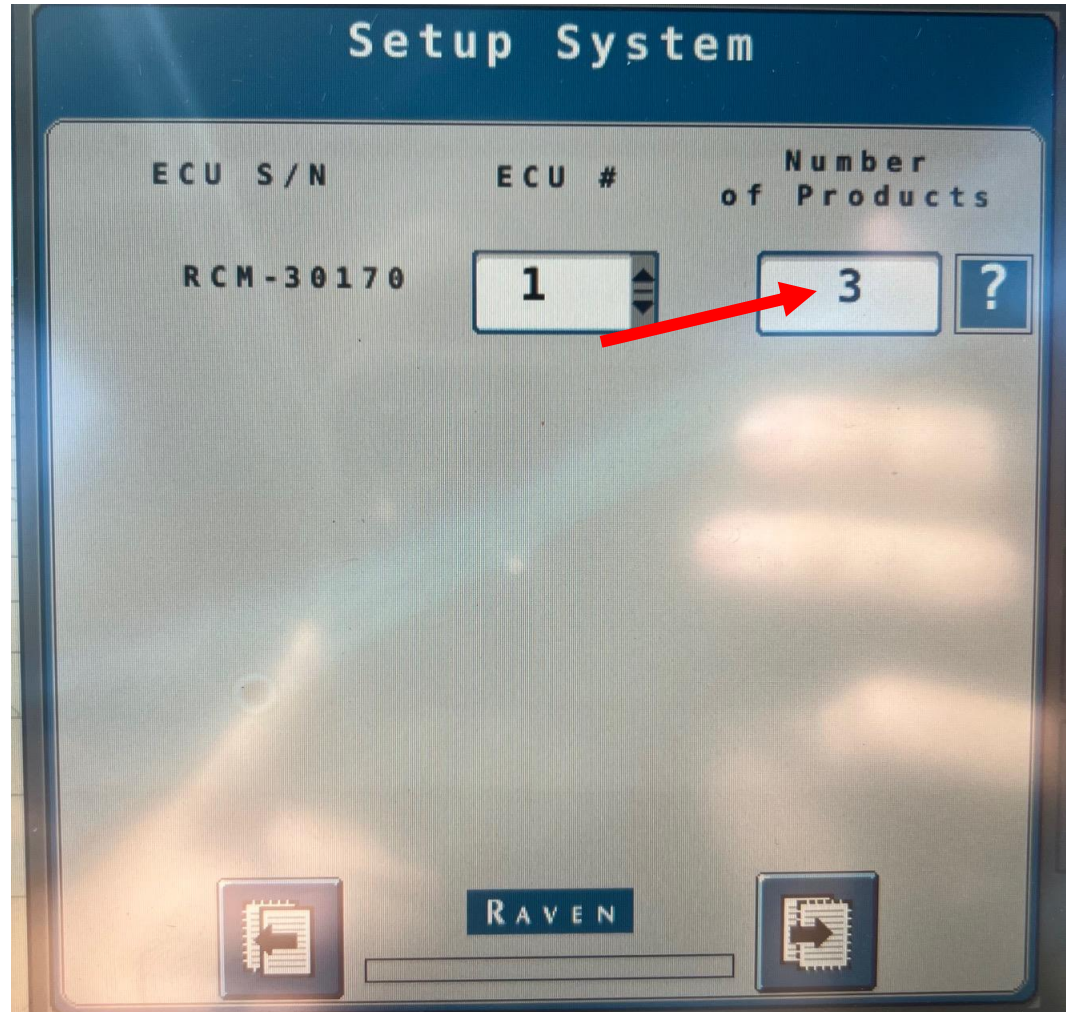
Software Version
Number 1.5.2.6

Hardware Serial
Number 30170

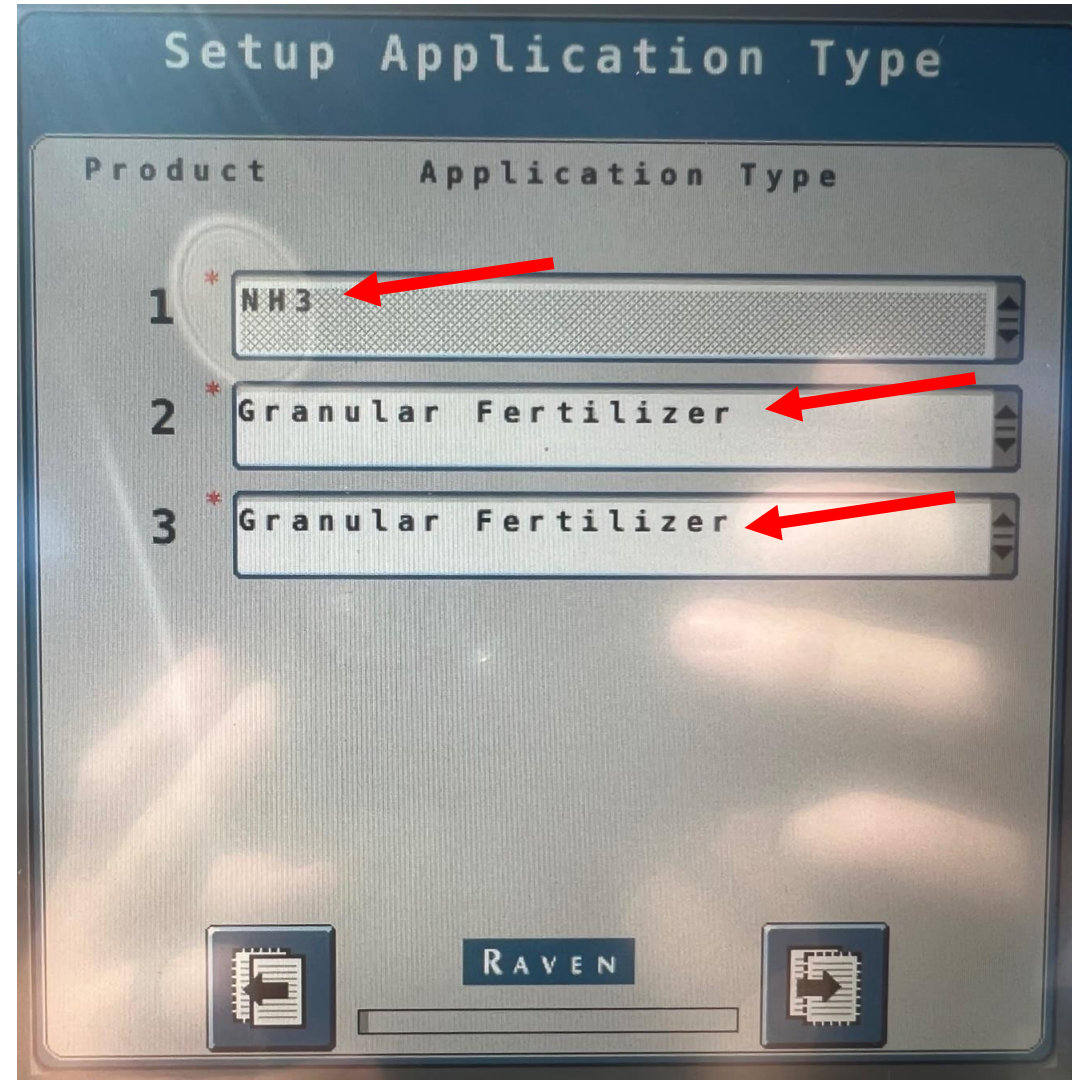
RAVEN

→

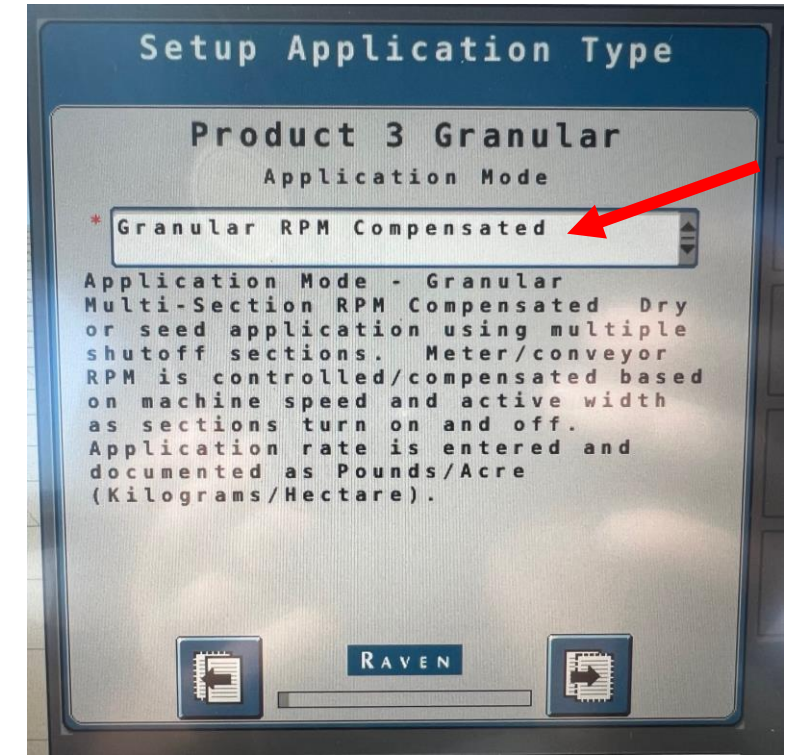
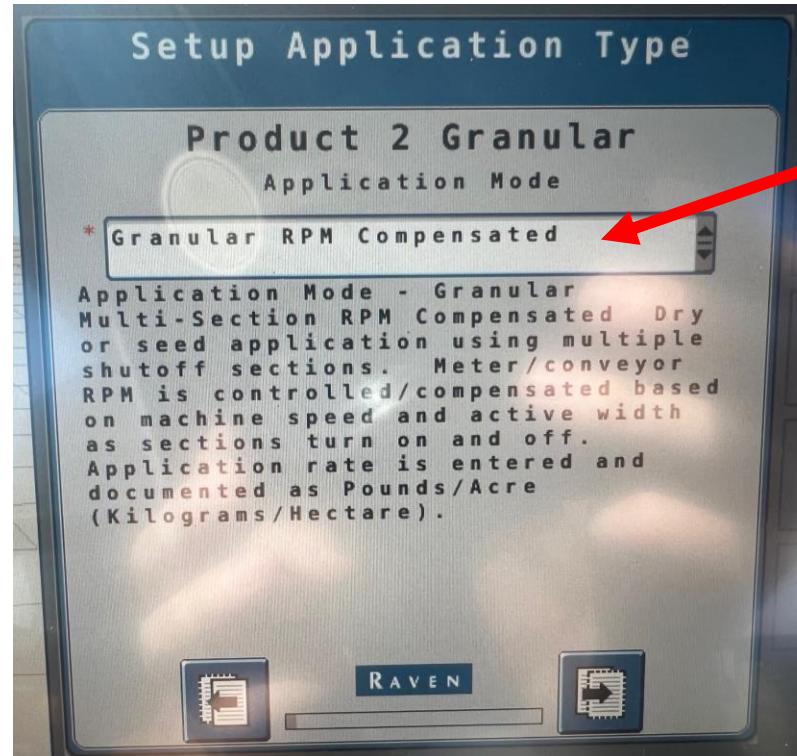
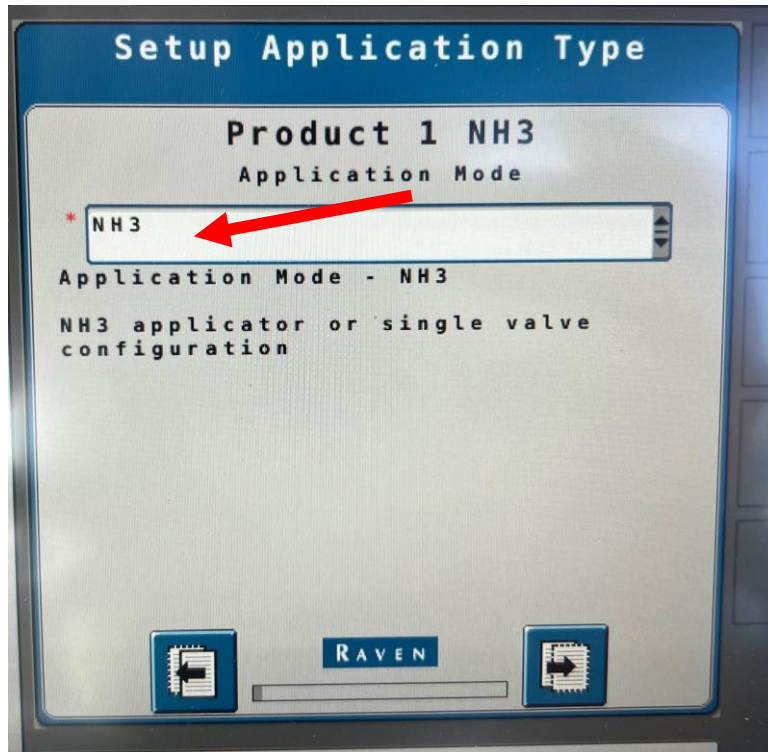
- Under Setup System enter 3 for the number of products
- Under Setup Fan Select "0" from the RPM Sensors dropdown



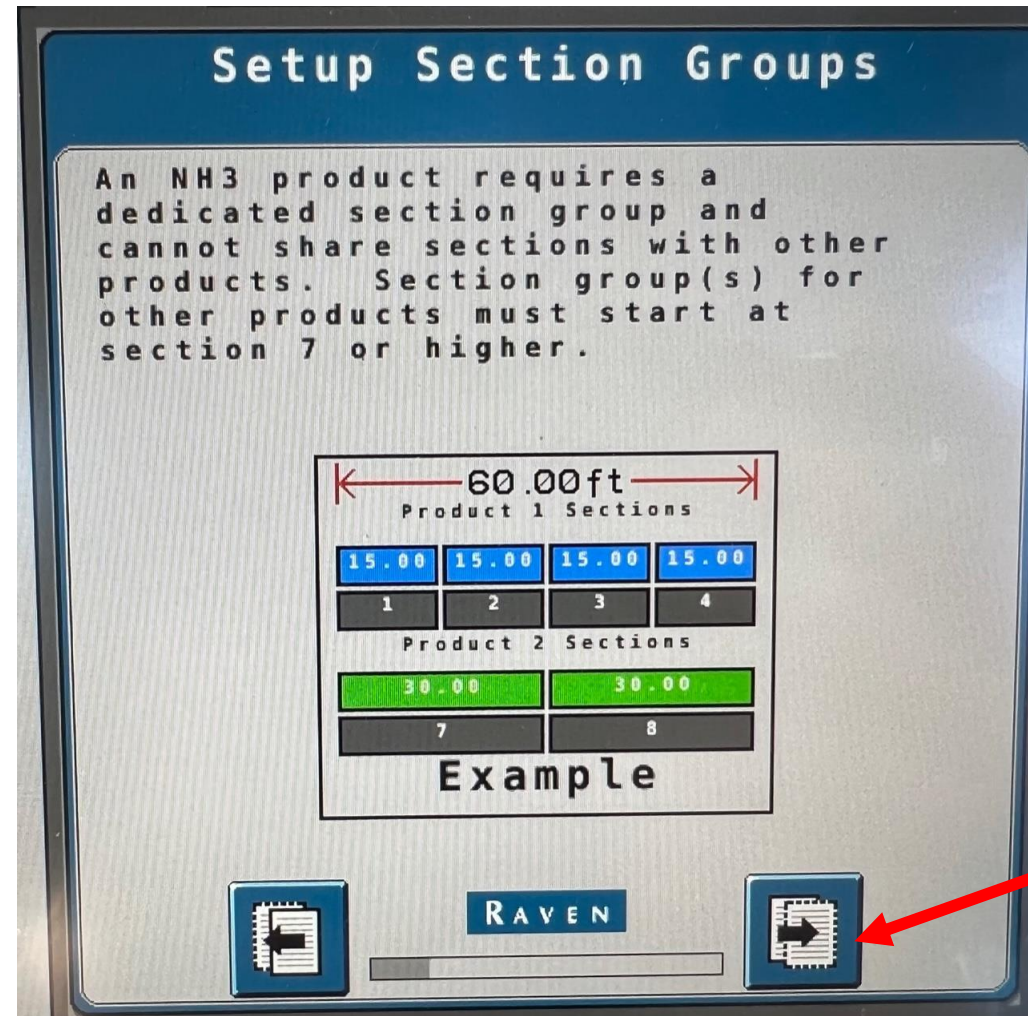
- Under Setup Application Type select “NH3” for Product 1
- Select “Granular Fertilizer” for Product 2 and 3



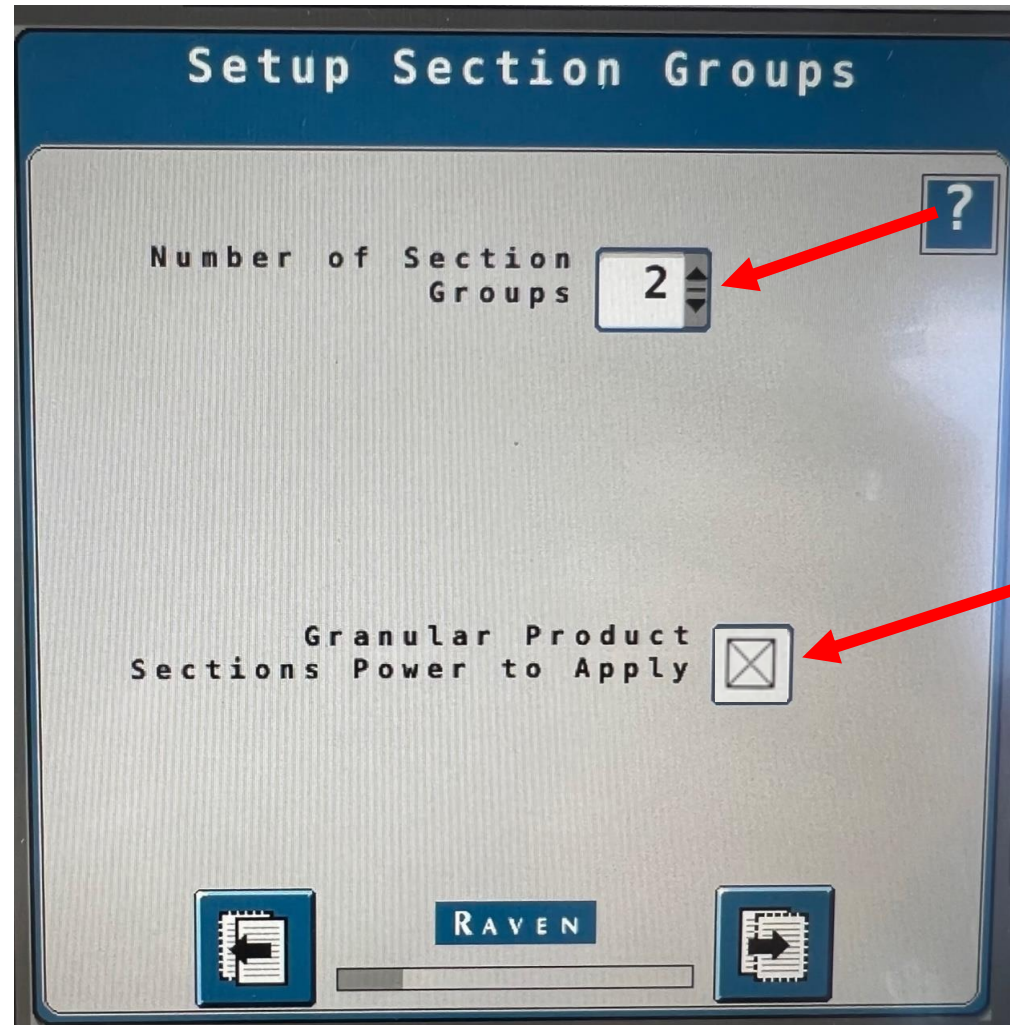
- Under Setup Application Type select “NH3” for Product 1 Application Mode
- Select “Granular Multi Section (RPM compensated)” for Products 2 and 3 Application Mode



- *Under Setup Section Groups select Next*



- *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.*

Setup Section Harnessing

You will now be guided through section harnessing setup. Please reference your product harness to identify appropriate section drivers. Ensure unused section drivers are skipped as shown below.

60.00ft


15.00	15.00	15.00	15.00
1	2	3	4

30.00	30.00
7	8


Liquid Section Width	Dry Section Width	Wired Signal Driver
----------------------	-------------------	---------------------

Section Group	Starting Section Number	Number Of Sections
1	<input type="text" value="1"/>	<input type="text" value="4"/>
2	<input type="text" value="7"/>	<input type="text" value="2"/>

Example



RAVEN



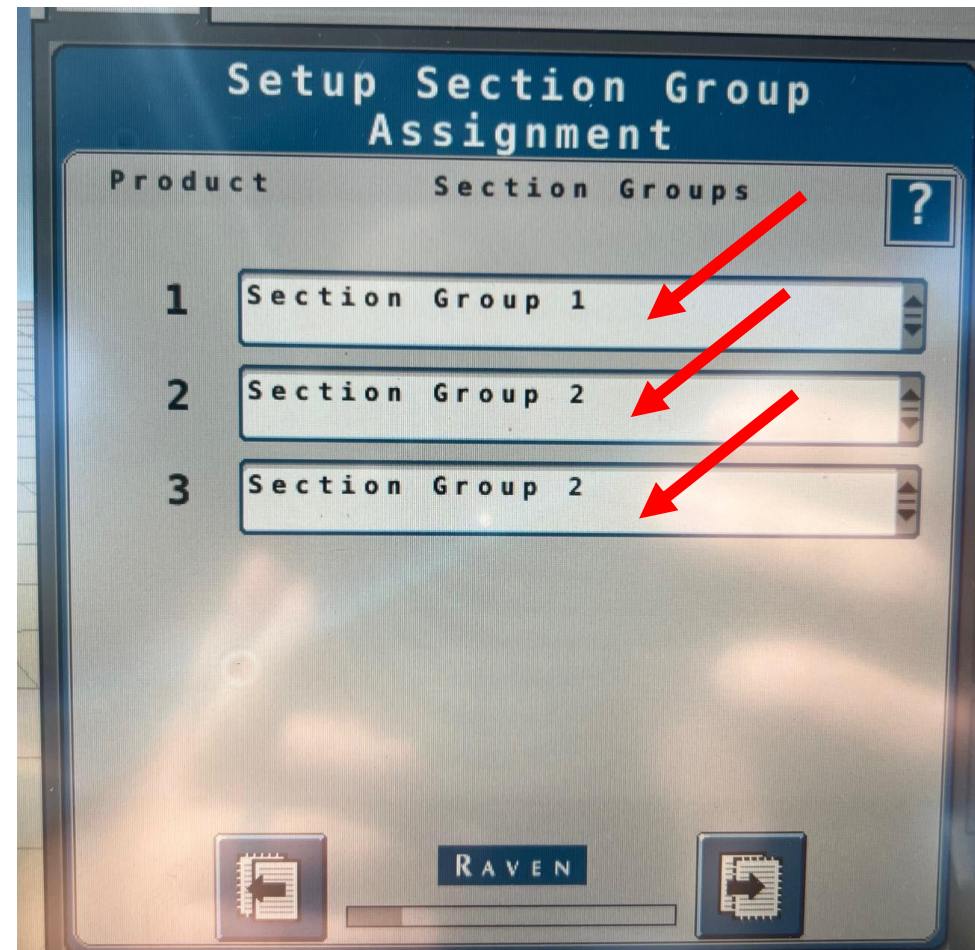
- Under Setup Section Groups Enter “1” for Starting Section Driver and the correct number of sections for Section Group 1 and select “Equal Section Widths”.
- For Section Group 2 Enter “7” as the Starting Section Driver and the correct number of Sections and select “Equal Section Widths”
- The first 6 section groups are reserved for NH3 so Section Group 2 needs to start at 7 or higher

Setup Section Harnessing

Section Group *	Starting Section Number *	Number Of Sections	Equal Section Widths
1	1	4	<input checked="" type="checkbox"/> ?
2	7	2	<input checked="" type="checkbox"/>

RAVEN

- *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*



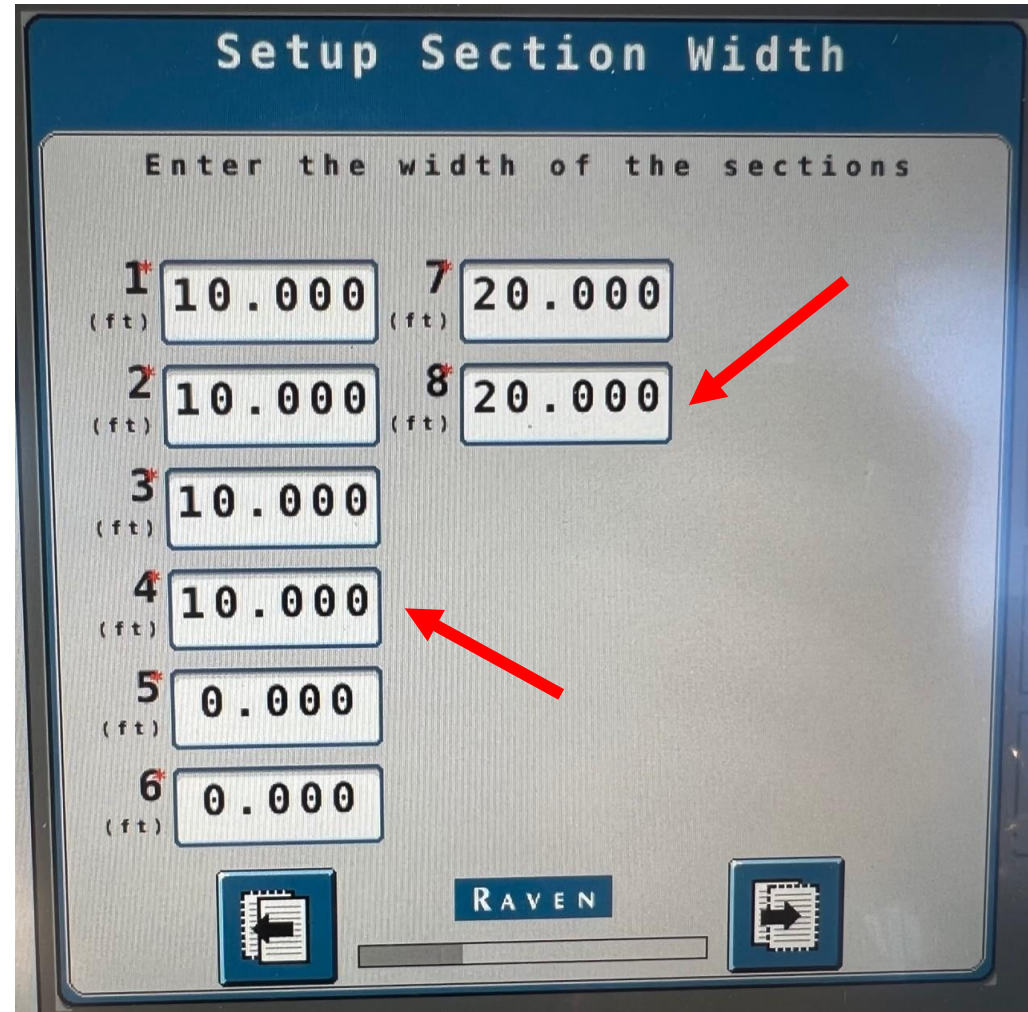
- *Under Setup Section Width enter the correct width for each section.*

Setup Section Width

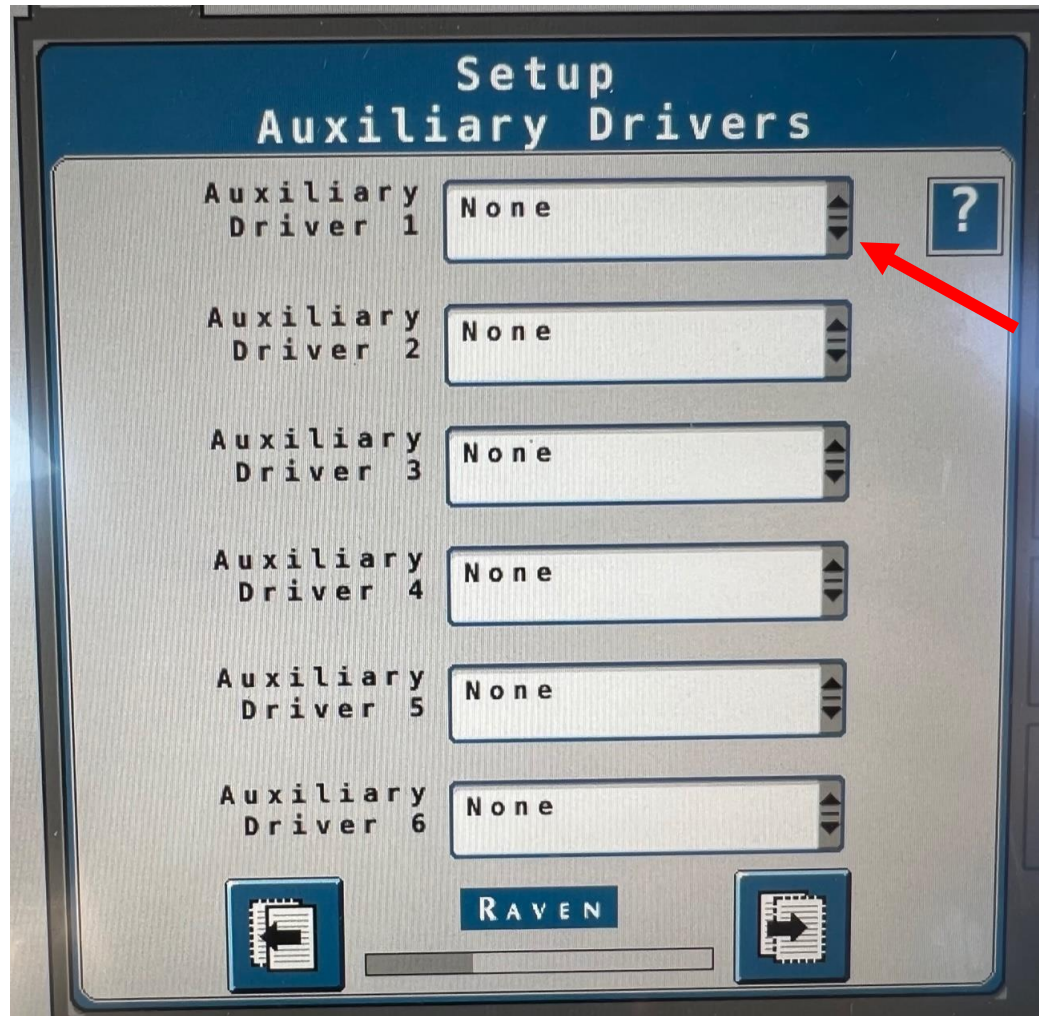
Enter the width of the sections

1* (ft)	10.000	7* (ft)	20.000
2* (ft)	10.000	8* (ft)	20.000
3* (ft)	10.000		
4* (ft)	10.000		
5* (ft)	0.000		
6* (ft)	0.000		

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The image shows a control panel with a blue header and a grey background. The title 'Setup Section Width' is at the top. Below it, the instruction 'Enter the width of the sections' is displayed. There are eight input fields arranged in two columns. The left column has fields for sections 1 through 6, and the right column has fields for sections 7 and 8. Each field contains a numerical value followed by '(ft)'. Red arrows point to the '20.000' values in the right column. At the bottom, there is a 'RAVEN' label, a progress bar, and two square buttons with circular arrows.

- *Under Setup Auxiliary Drivers select "None"*



- *Verify sections are correct and select next.*

Section Summary

40.000(ft)

Product 1

10	10	10	10
1	2	3	4
1	2	3	4

Product 2


20	20
7	8
7	8

Product 3

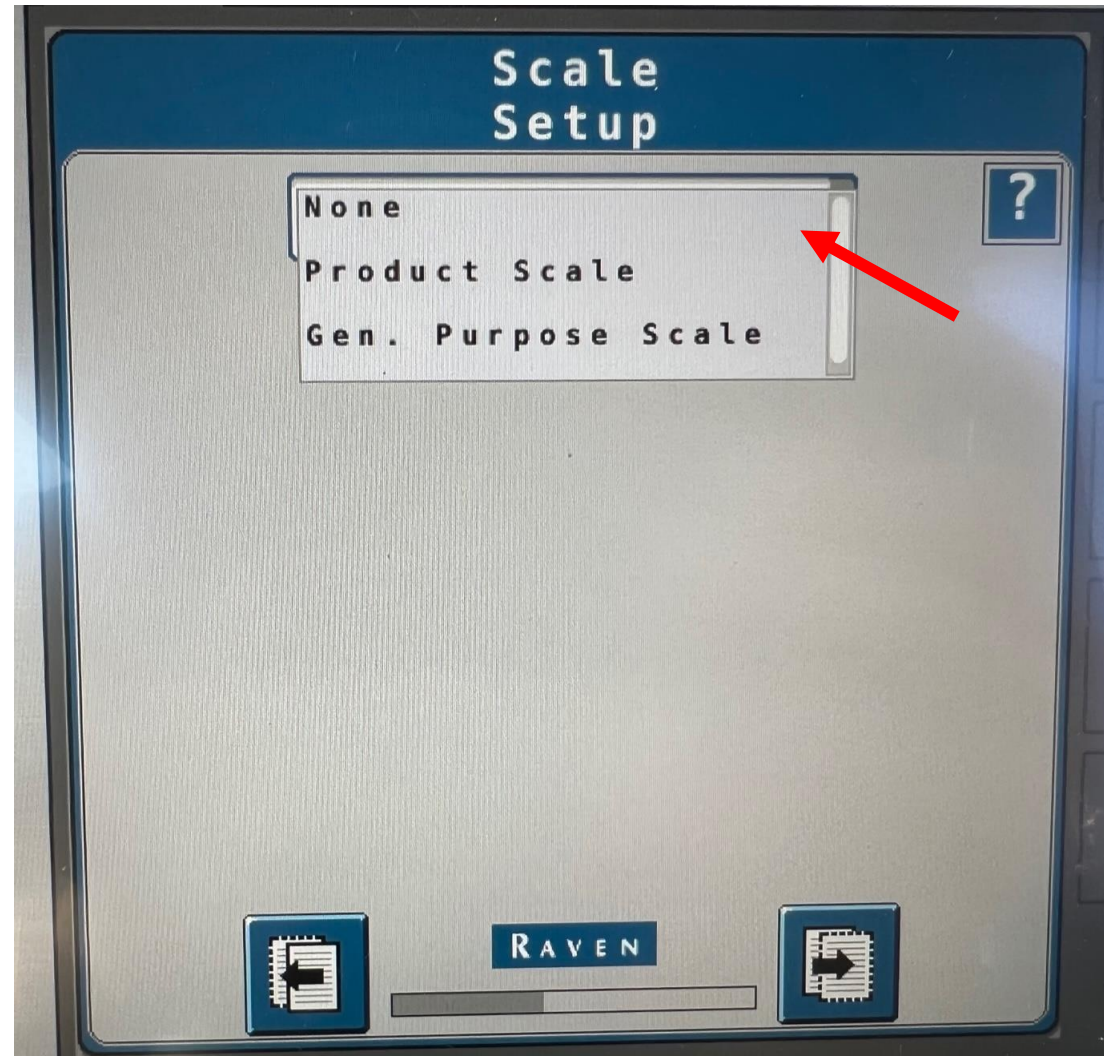
20	20
7	8
7	8

Liquid Section Width Granular Section Width Wired Signal Driver Switch Number

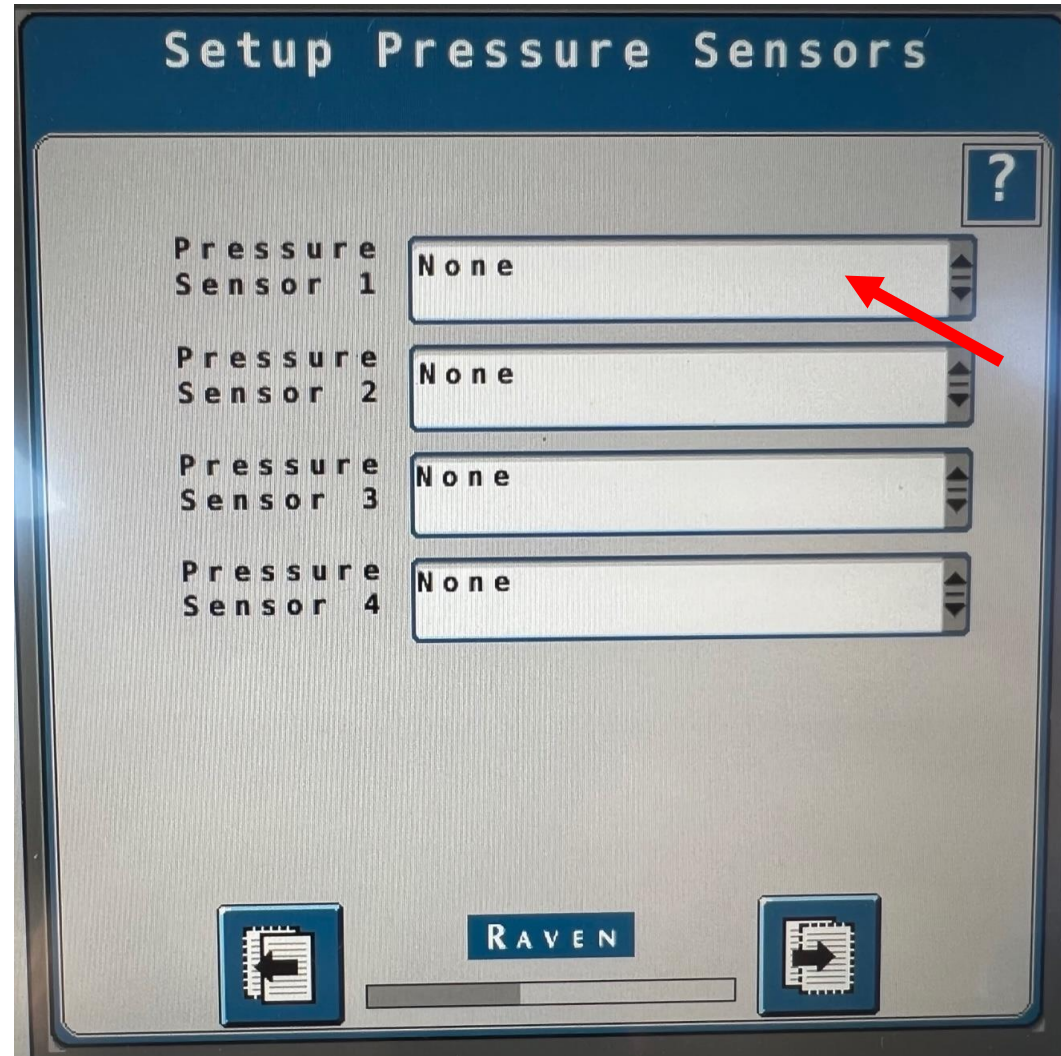
RAVEN



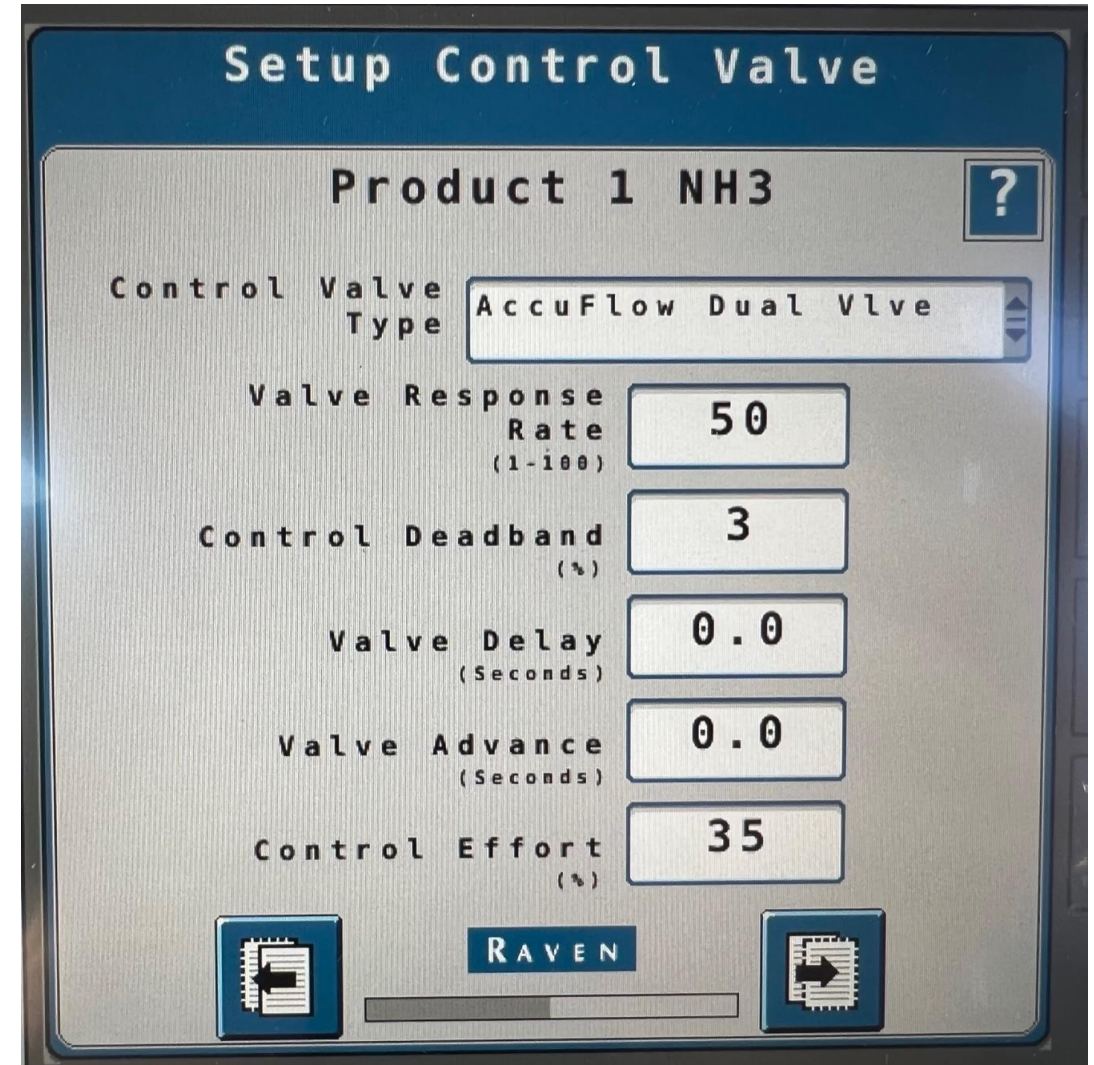
- *If no scales are present, select “None”*



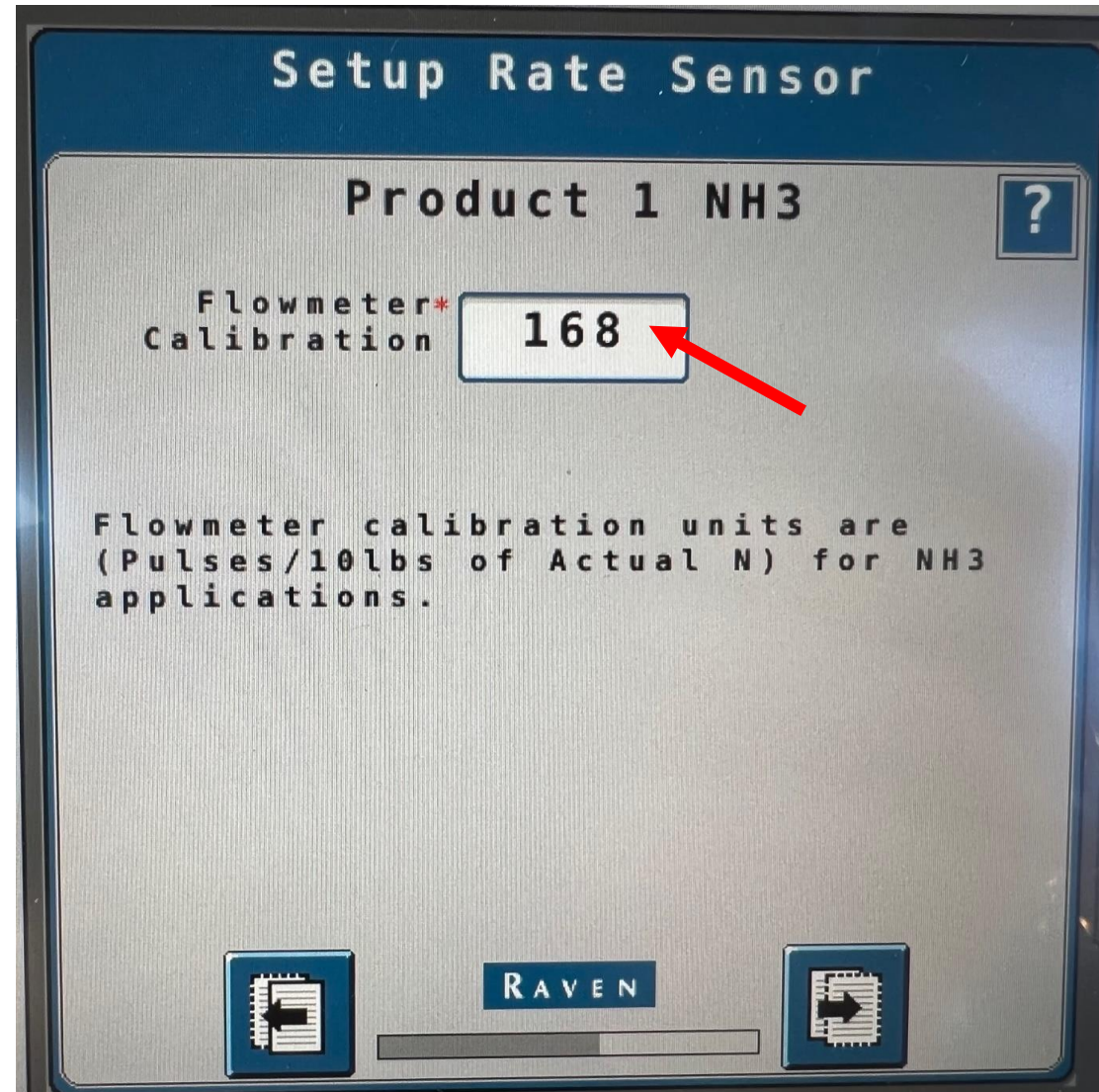
- *Under Setup Pressure Sensors select “None”*



- Under Setup Control Valve-Product 1 NH3 select “AccuFlow Dual Valve” under Control Valve Type
- Enter “50” for Valve Response Rate
- Enter “3” for Control Deadband
- Enter “0” for Valve Delay
- Enter “0” for Valve Advance
- 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*

Setup Tank/Bin

Product 1 NH3

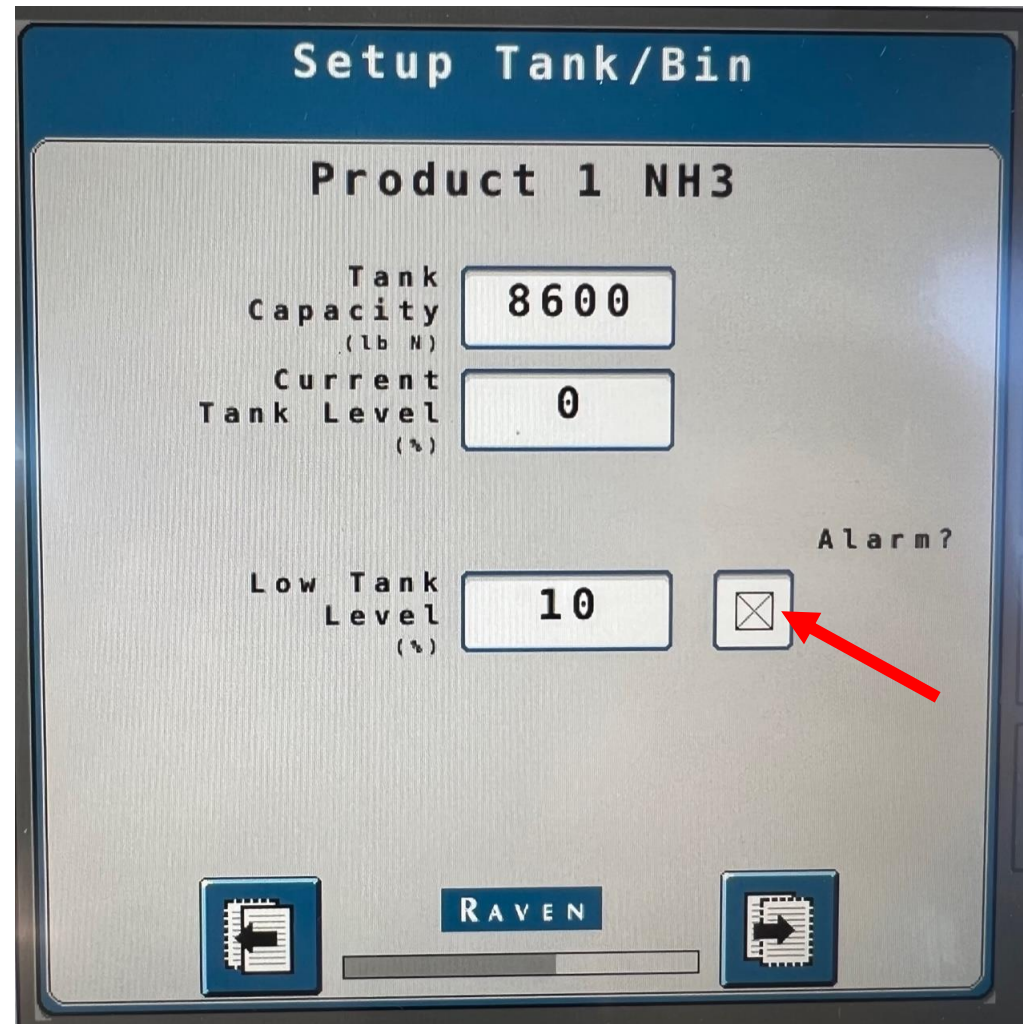
Tank Capacity (lb N) 8600

Current Tank Level (%) 0

Low Tank Level (%) 10

Alarm?

RAVEN



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

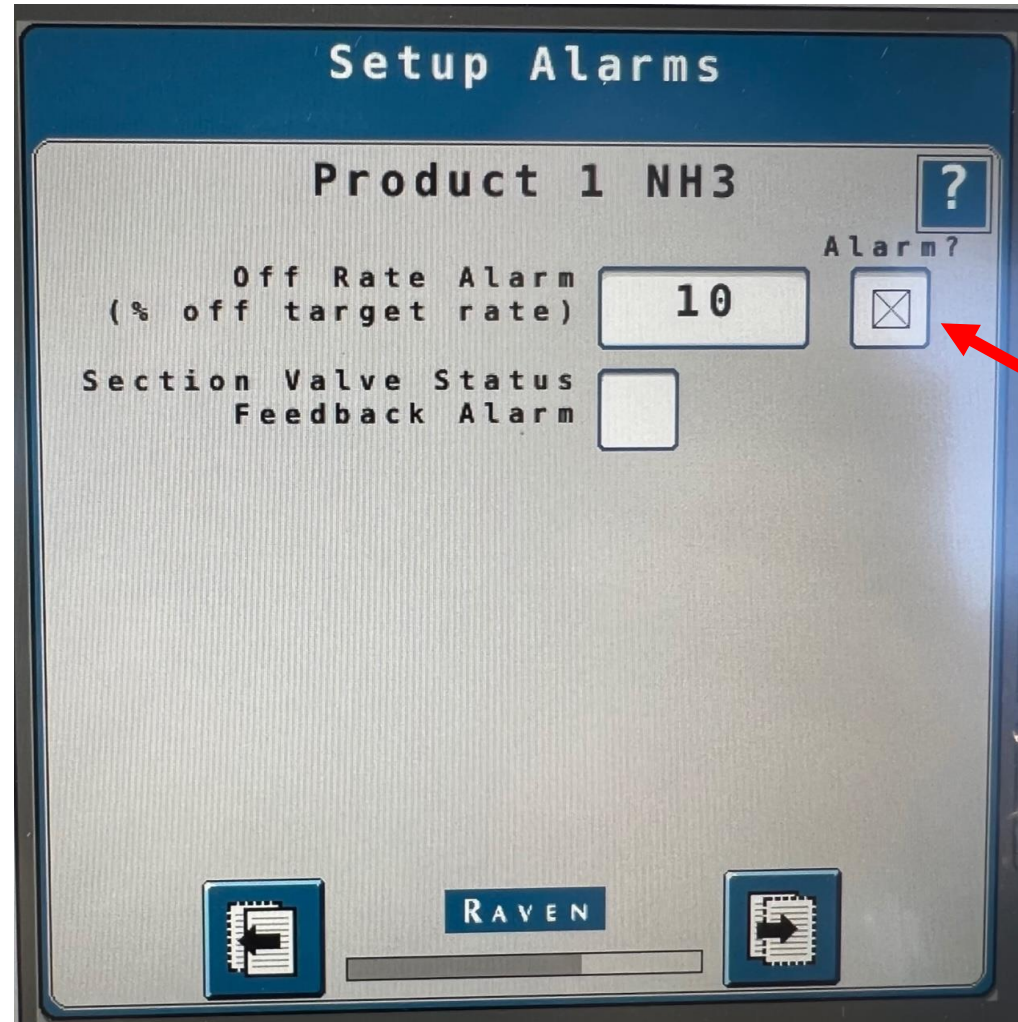
Setup Rates

Product 1 NH3 ?

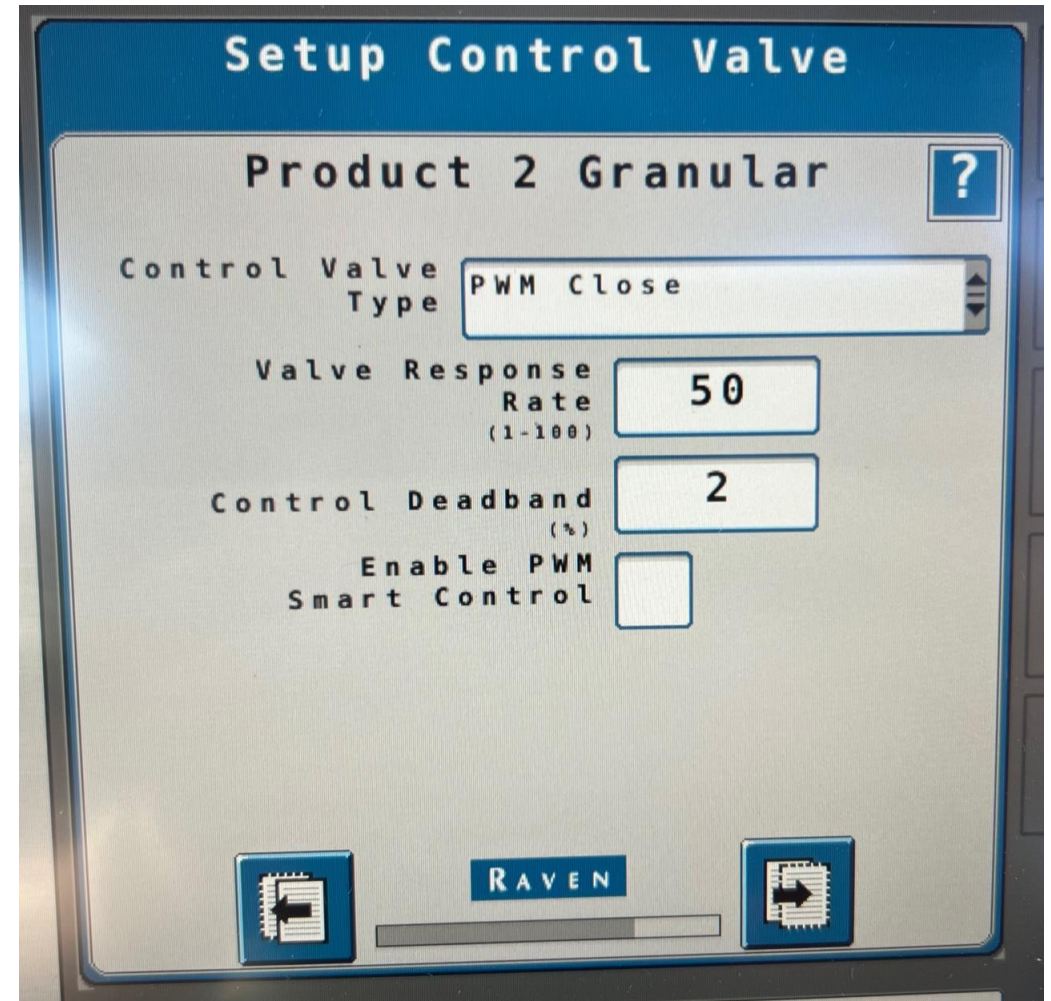
	Rate 1	Rate 2	Rate 3
Preset* Rate Values (Lbs N/Ac)	150	175	200
Rate Bump (Lbs N/Ac)	10		
Rate Selection	Predefined or Rx		
Display Smoothing	<input checked="" type="checkbox"/>		

RAVEN

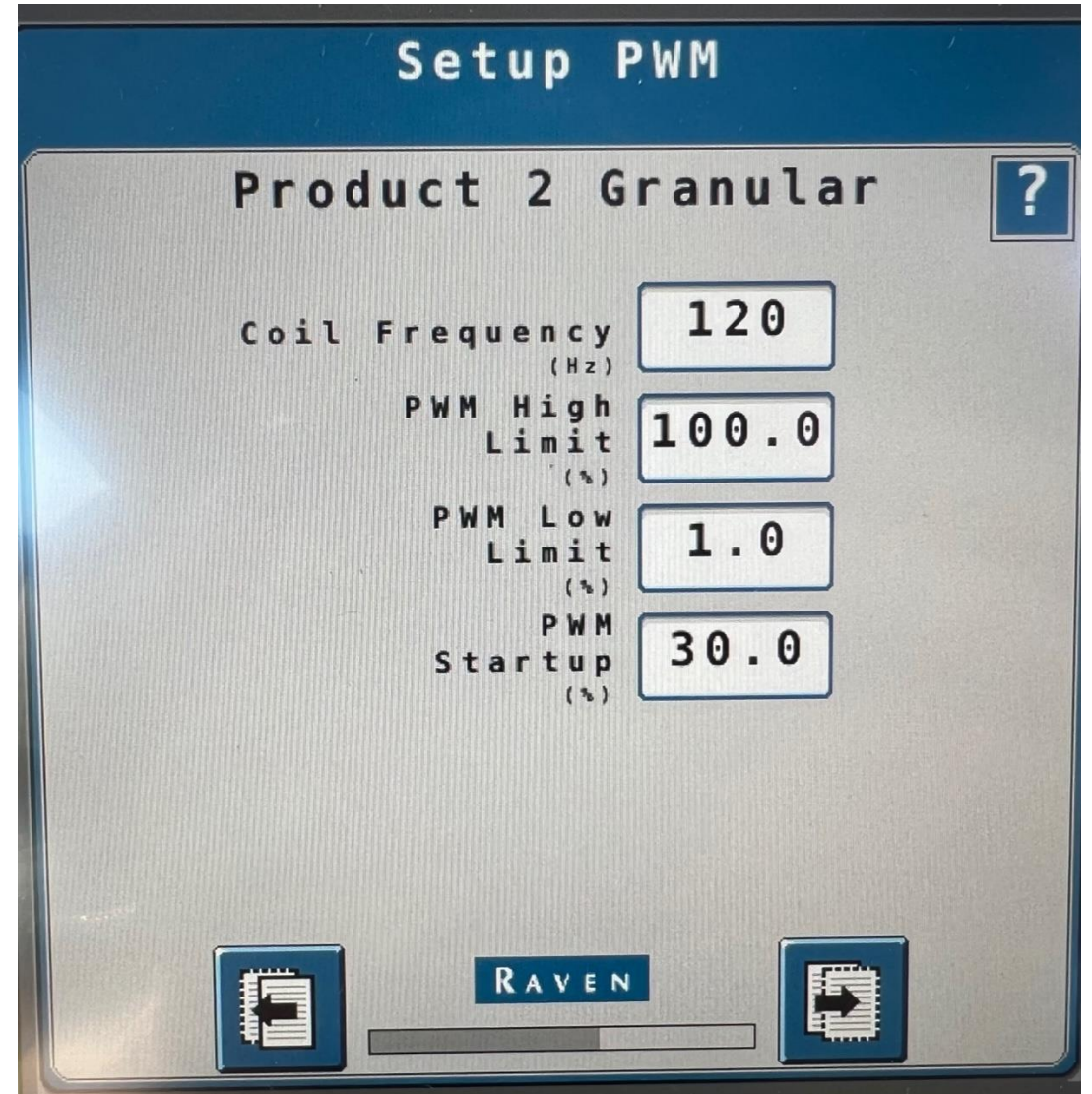
- *Under Setup Alarms-Product 1 NH3 enter the desired Off Rate Alarm and select the “Alarm?” Checkbox*



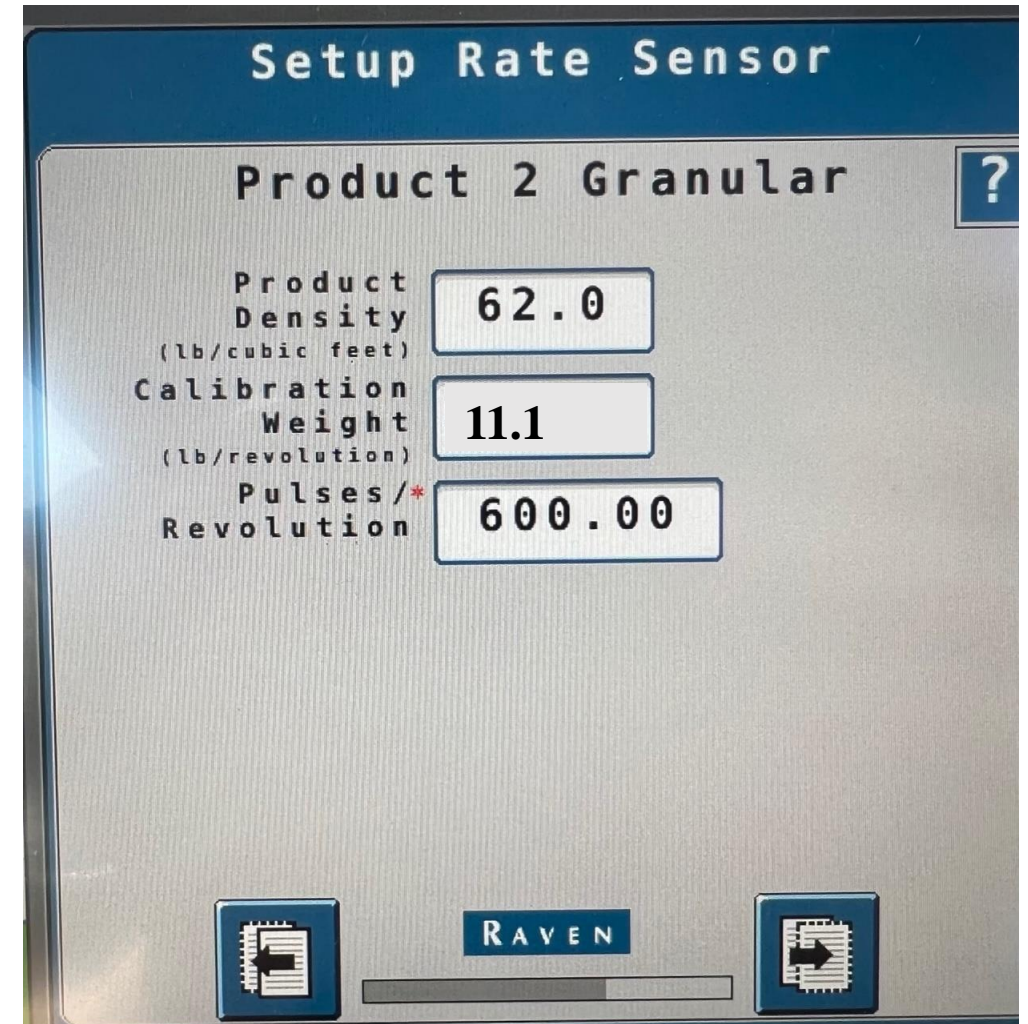
- *Under PWM Setup Valve-Product 2 Granular select “PWM Close” under Control Valve Type*
- *Enter “50” for Valve Response Rate*
- *Enter “2” for Control Deadband*



- *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*

Setup Tank/Bin

Product 2 Granular

Tank Capacity (Lb) 9000

Current Tank Level (Lb) 0

Low Tank Level (Lb) 0

Low Bin Level Sensor

Alarm?

Bin Level Sensor Type Default

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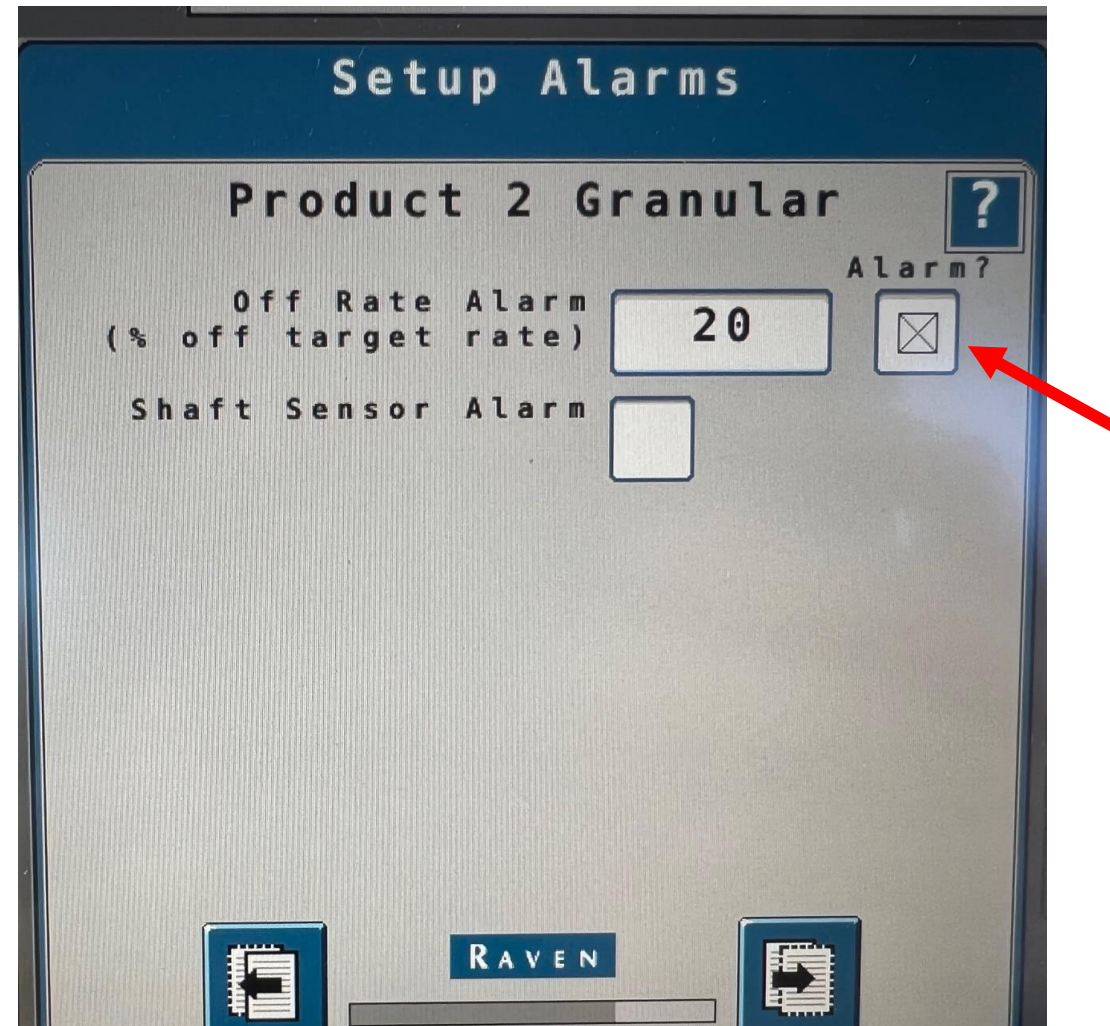
- *Under Setup Rates-Product 2 Granular*
- *Enter Desired Preset Rate Values*
- *Enter “10” for Rate Bump*
- *Select Desired Rate Selection*
- *Select “Display Smoothing”
Checkbox*

The screenshot shows a control panel titled "Setup Rates" for "Product 2 Granular". The panel includes the following fields and controls:

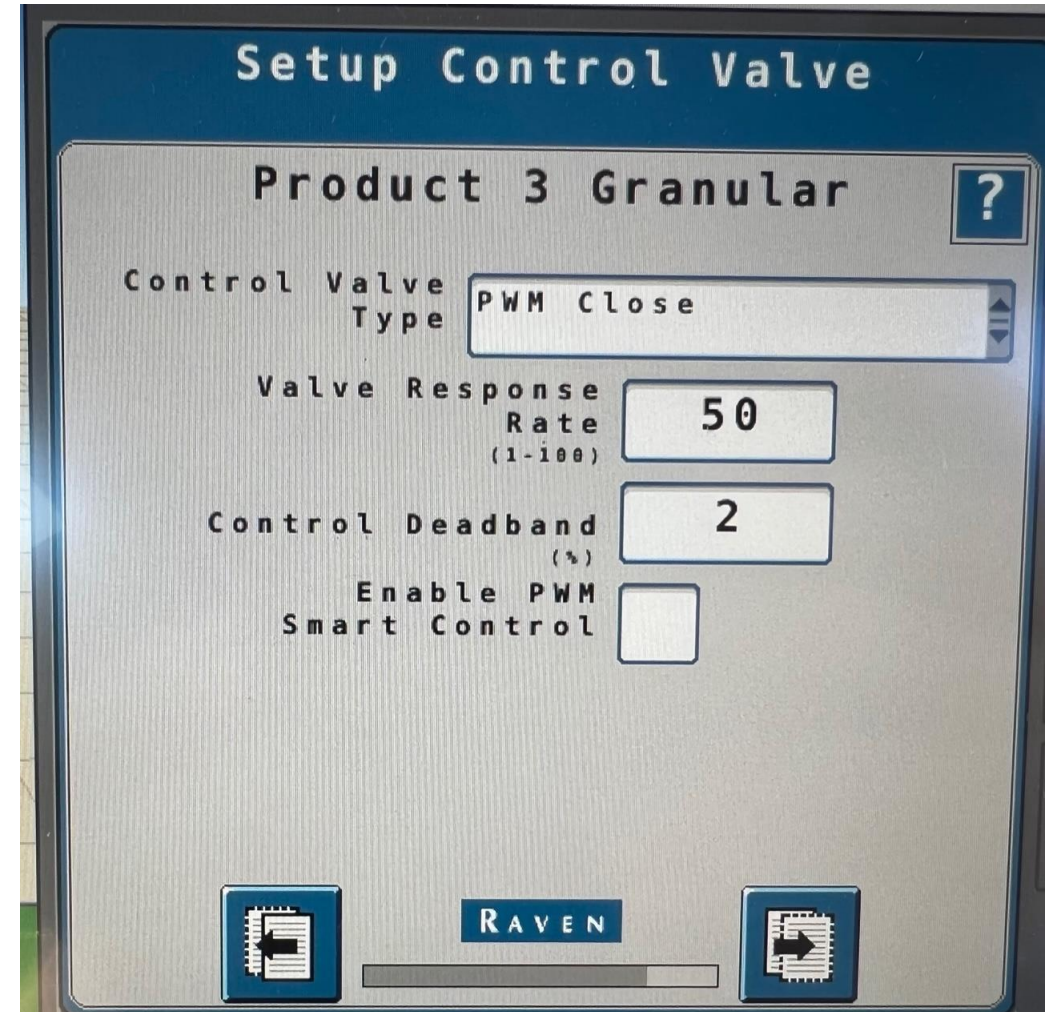
- Product 2 Granular** (with a help icon)
- Rate 1**: 100
- Rate 2**: 200
- Rate 3**: 300
- Preset* Rate Values (lb/ac)**: 100, 200, 300
- Rate Bump (lb/ac)**: 10
- Rate Selection**: Predefined or Rx
- Display Smoothing**: (indicated by a red arrow)
- Decimal Shift**: 0

At the bottom of the screen, there are navigation buttons (left and right arrows) and the brand name "RAVEN".

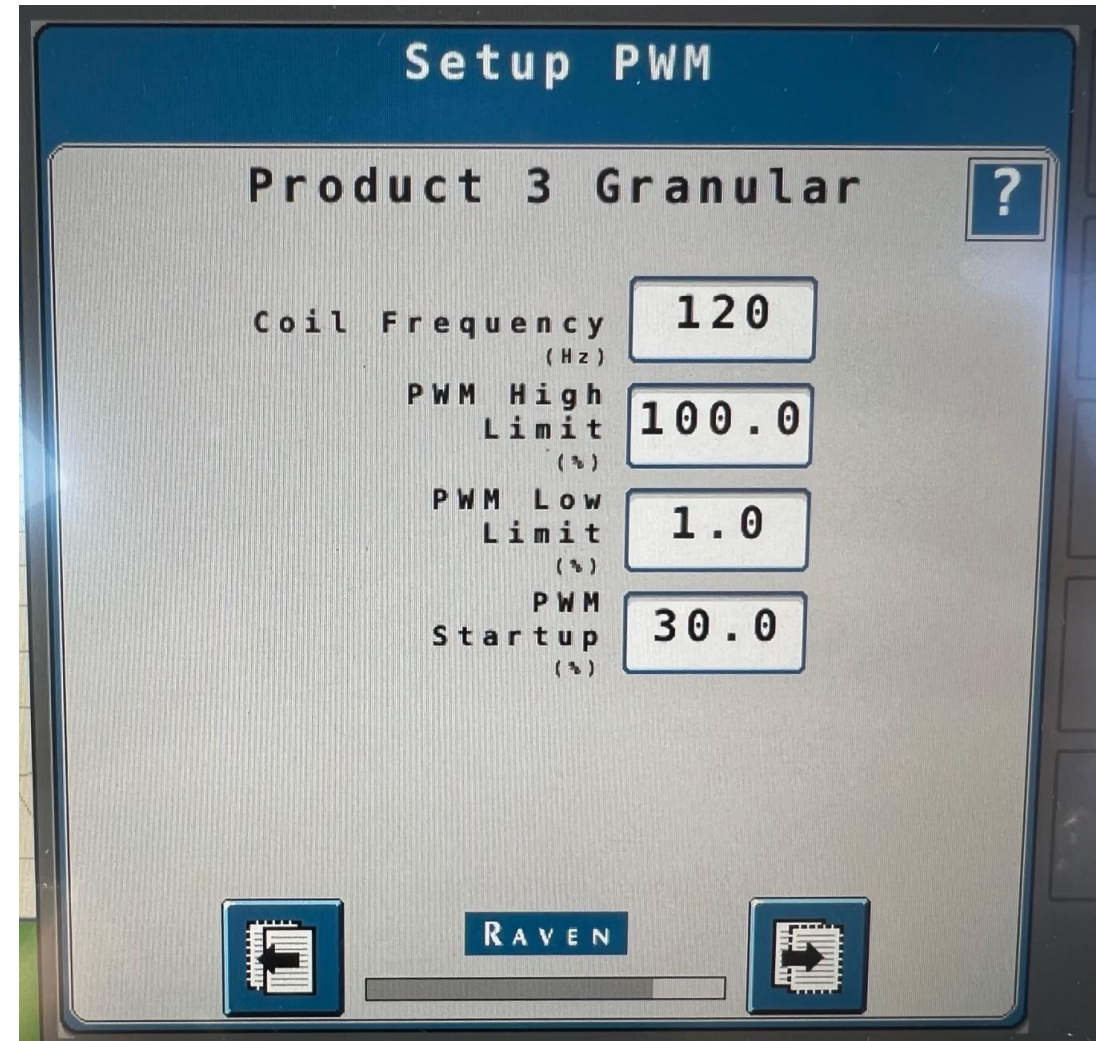
- *Under Setup Alarms-Product 2 Granular enter the desired Off Rate Alarm and Dual Encoder Alarm*
- *Select the “Alarm?” Checkboxes*



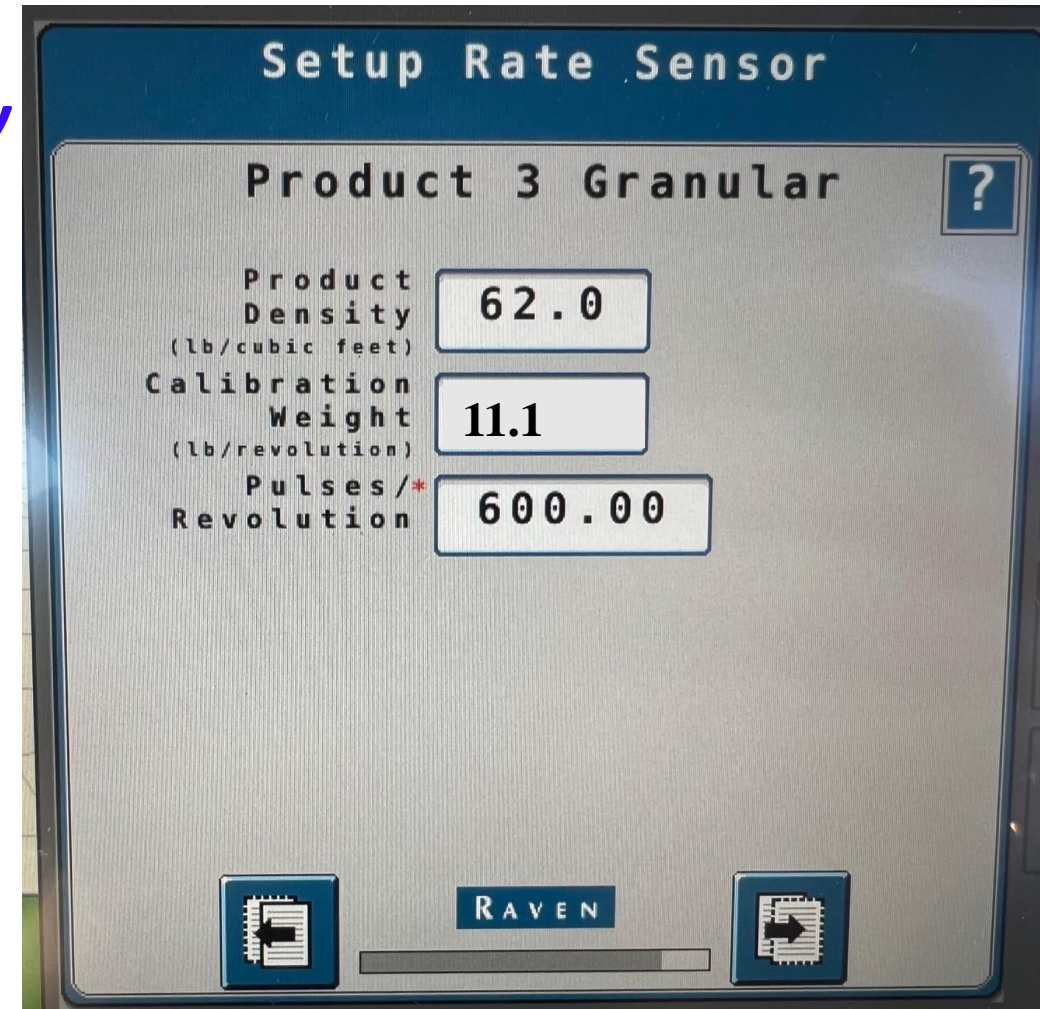
- *Under PWM Setup Valve-Product 3 Granular select “PWM Close” under Control Valve Type*
- *Enter “50” for Valve Response Rate*
- *Enter “2” for Control Deadband*



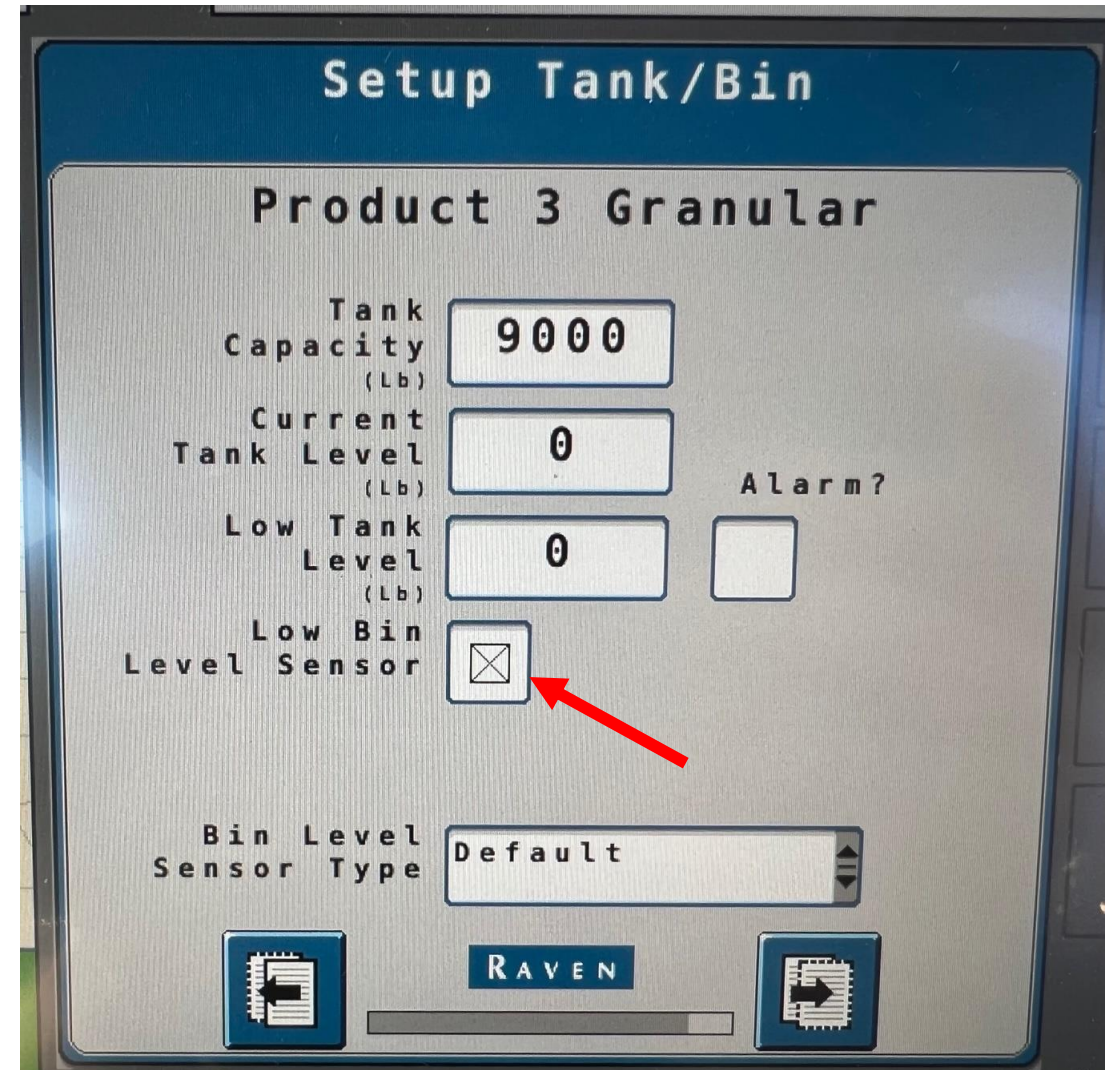
- *Under Setup PWM-Product 3 Granular enter “120” for Coil Frequency*
- *Enter “100” for High Limit*
- *Enter “1” for Low Limit*
- *Enter “30” for PWM Startup*



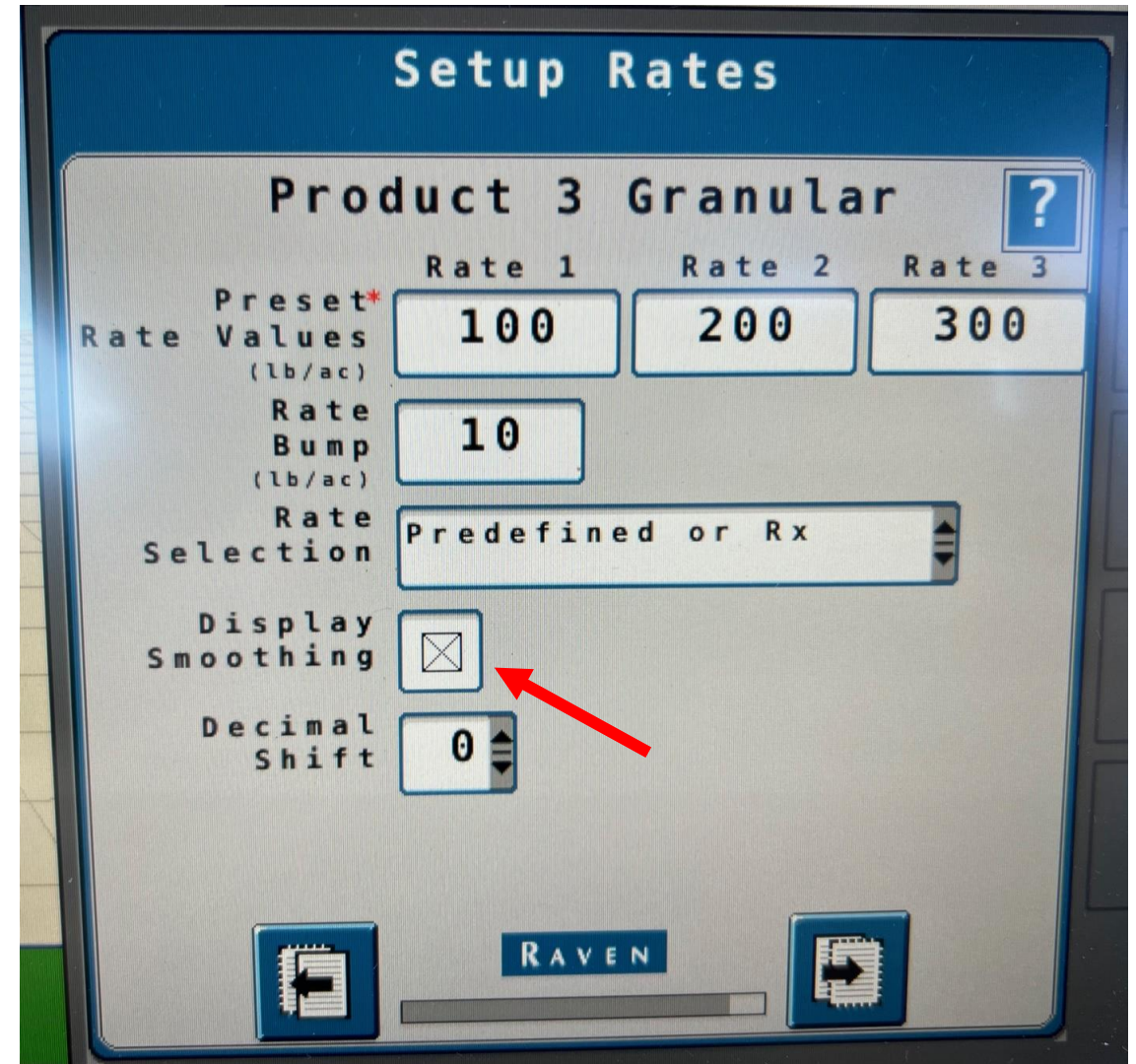
- *Under Setup Rate Sensor-Product 3 Granular*
- *Enter “600” for Pulses/Revolution*
- *Enter Correct Value for Product Density*
- *Enter Calibration Weight*
 - *Calibration Weight=.69375 x # of rows*



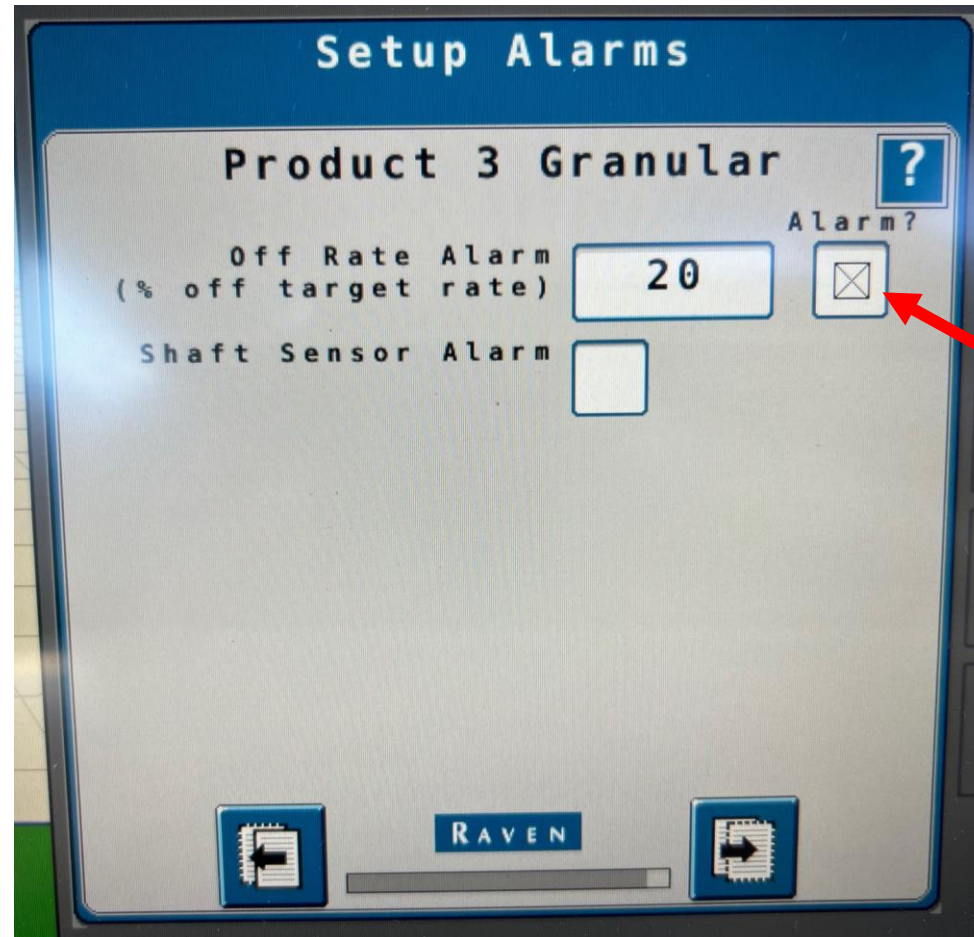
- *Under Setup Tank-Product 3 Granular*
- *Enter “9000” for Tank Capacity*
- *Enter “0” for Low Tank Level*
- *Select “Low Bin Level Sensor”*
Checkbox



- *Under Setup Rates-Product 3 Granular*
- *Enter Desired Preset Rate Values*
- *Enter “10” for Rate Bump*
- *Select Desired Rate Selection*
- *Select “Display Smoothing”
Checkbox*



- *Under Setup Alarms-Product 3 Granular enter the desired Off Rate Alarm and Dual Encoder Alarm*
- *Select the “Alarm?” Checkbox*



- *Setup is now complete*
- *Select “Accept” to close the Setup Wizard*

