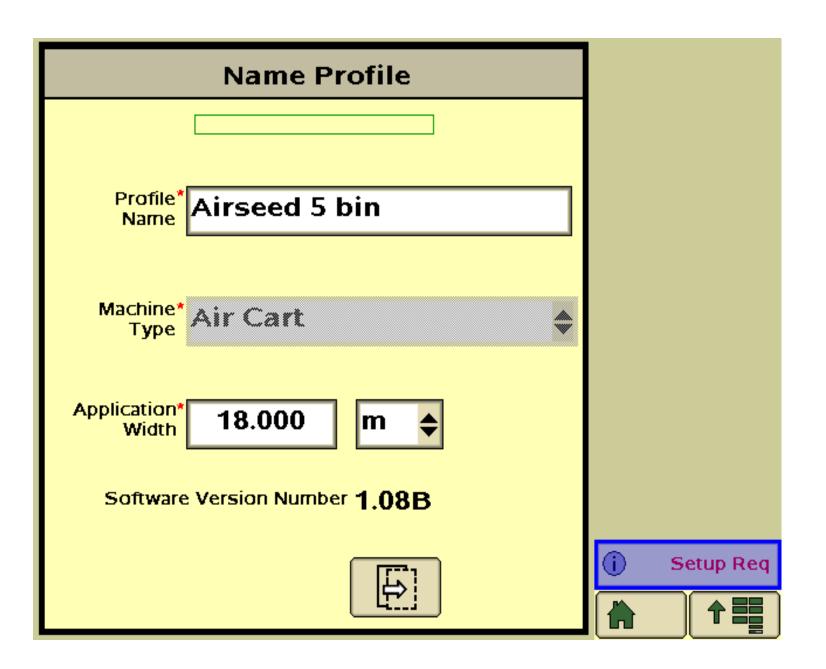
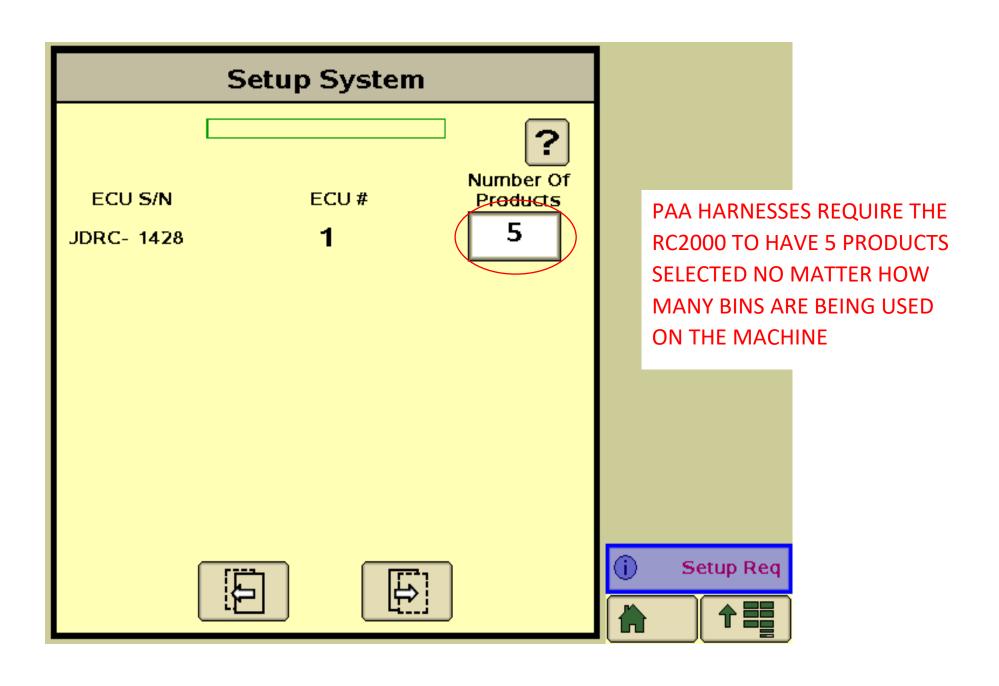


RC 2000 WIZARD SETUP GUIDE FOR PAA HARNESSING





Setup Fan/Spinner RPM

Select the number of spinner or fan RPM sensors installed on the implement used for fan or spinner RPM monitoring or control.

RPM Sensors



Checking the Enable Fan/Spinner RPM Control box allows control of a fan or spinner PWM or fast valve and will reduce the number of products and sections available.

Enable Fan/Spinner RPM Control



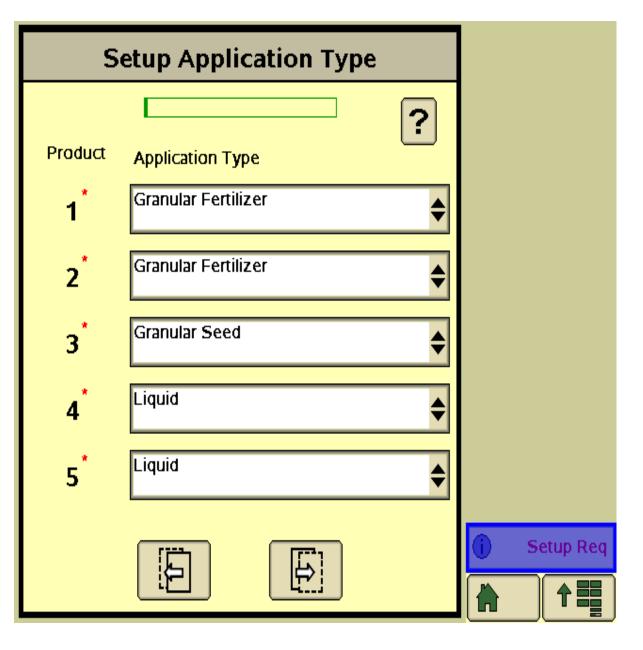


SELECT THE NUMBER OF FAN SENSORS









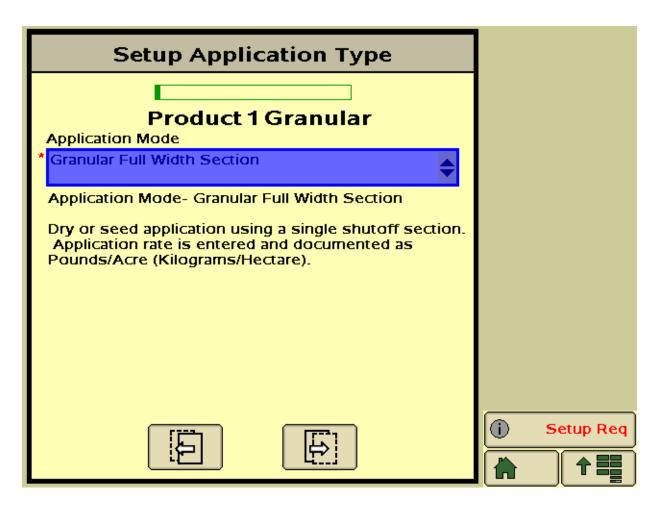
SELECT THE PRODUCTS TO GO IN EACH BIN

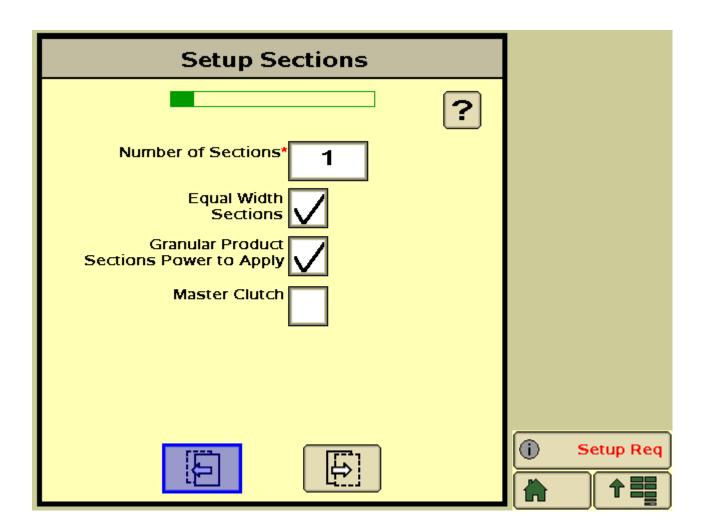
BIN 5 DOES NOT HAVE THE ABILITY TO RUN A VR MAP OR DOCUMENTATION

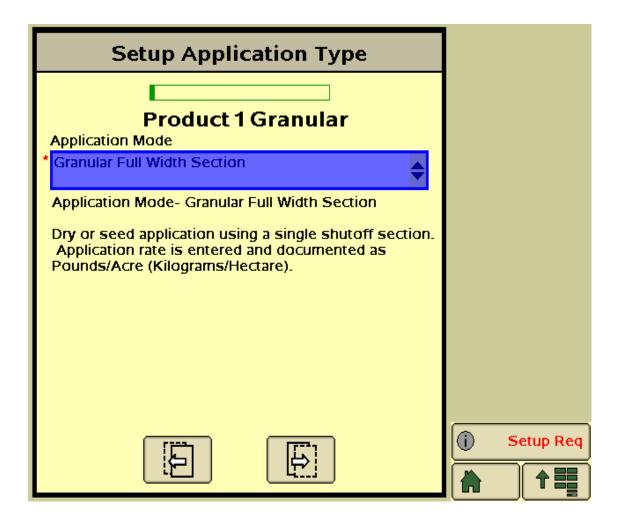
IF NOT USING A BIN THE APPLICATION TYPE DOES NOT MATTER

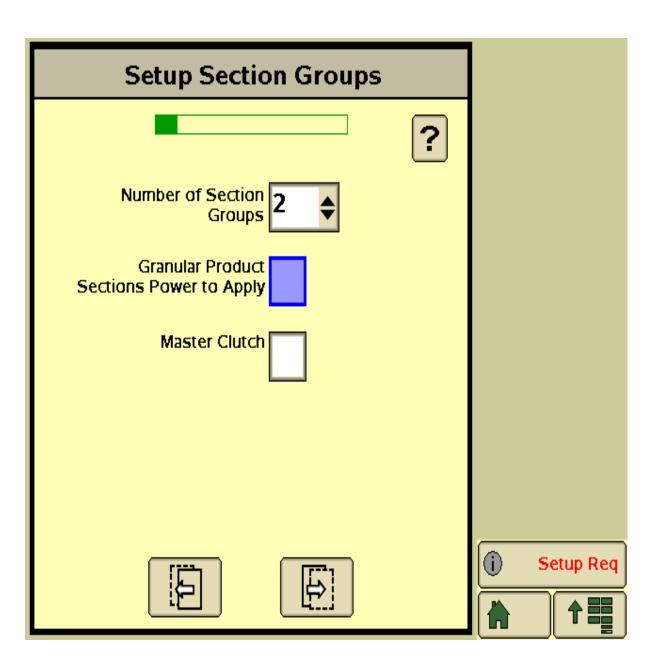
SECTION CONTROL SETUPS

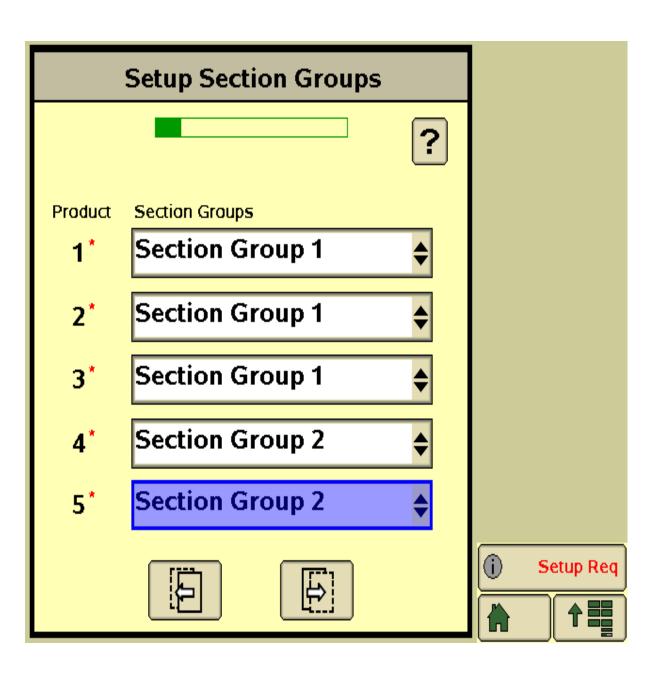
No section Control

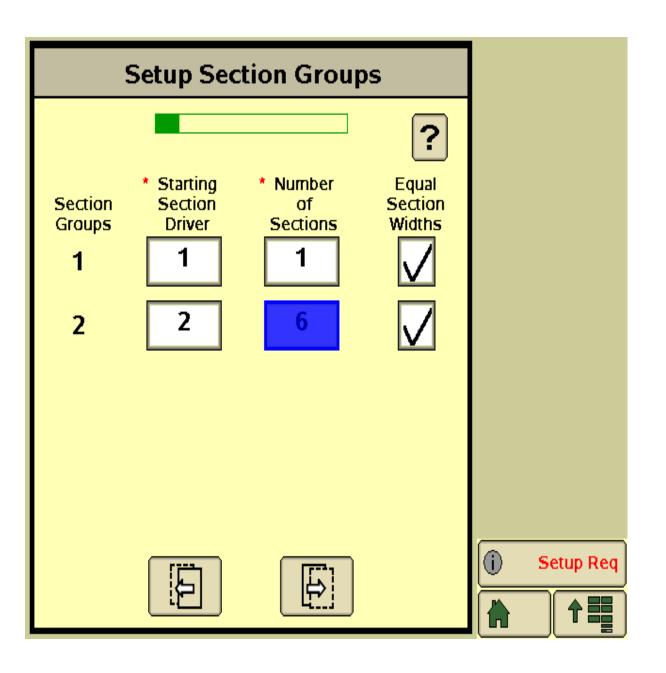


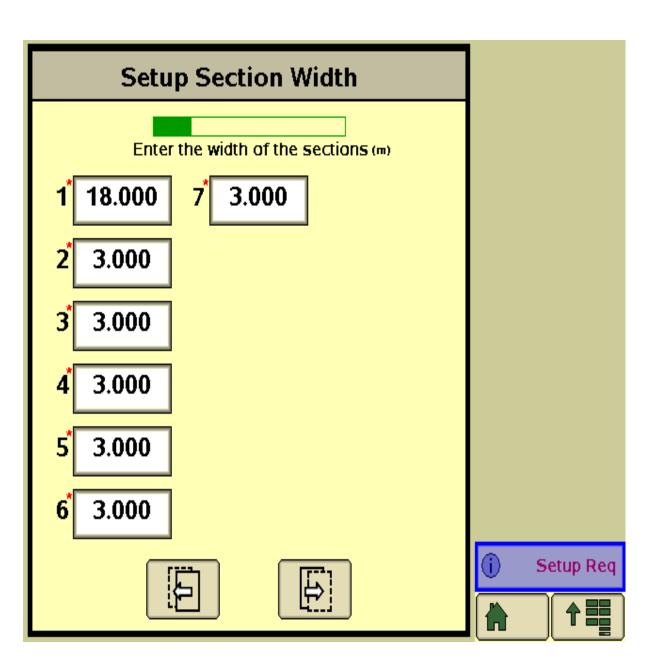


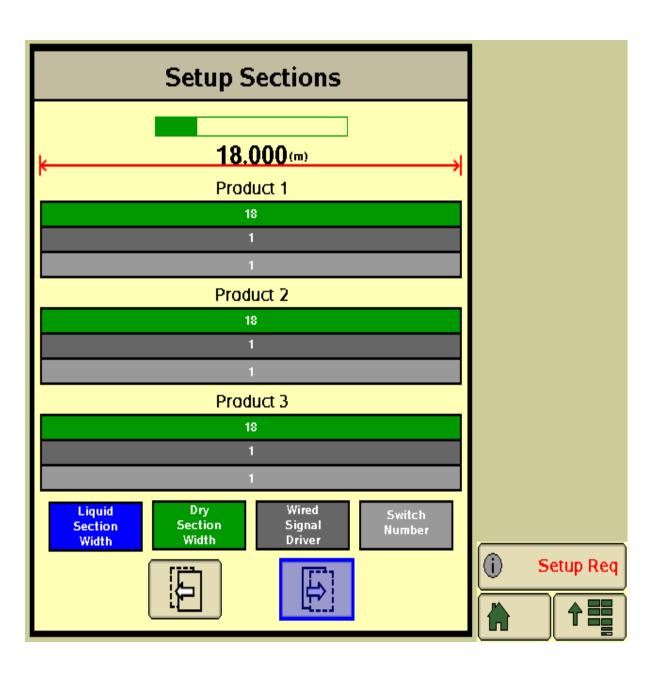


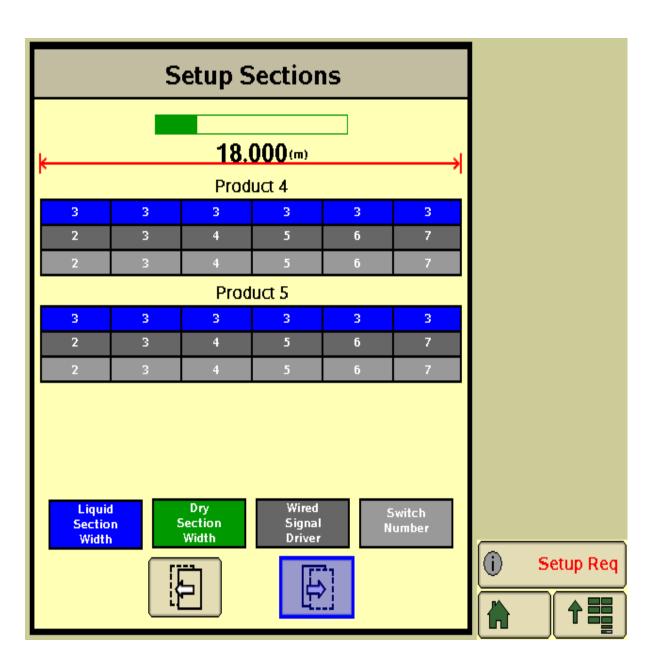


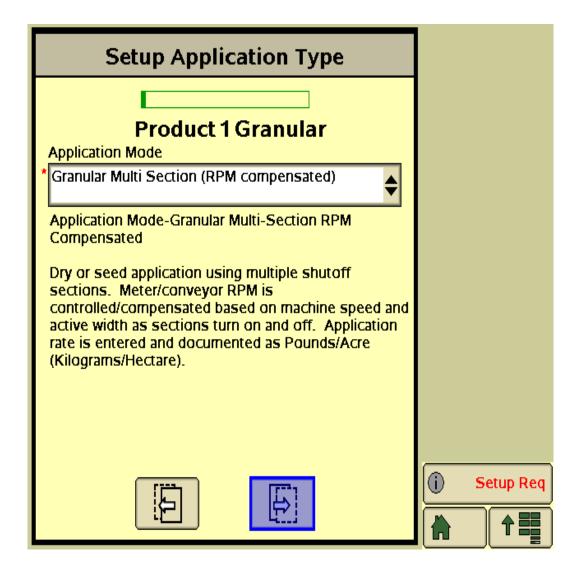




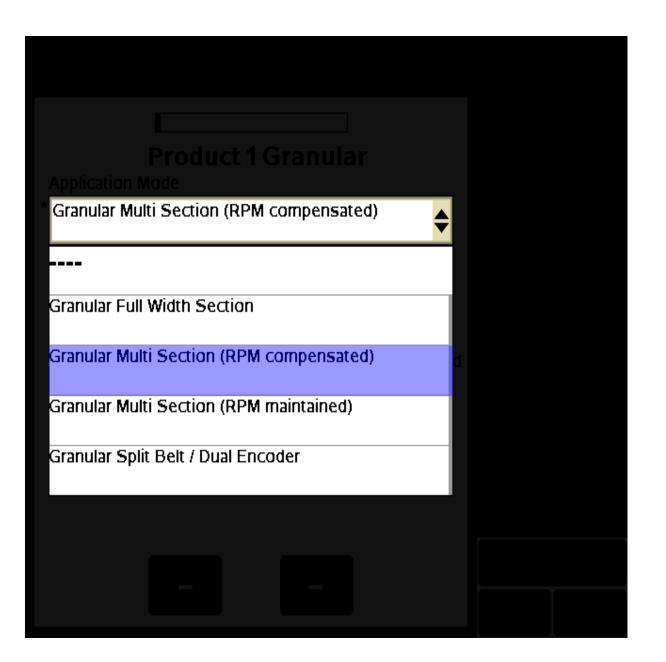


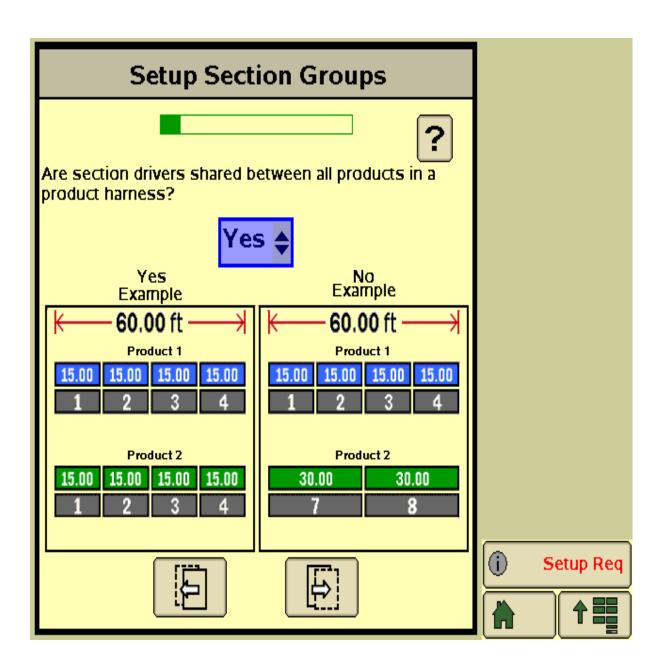




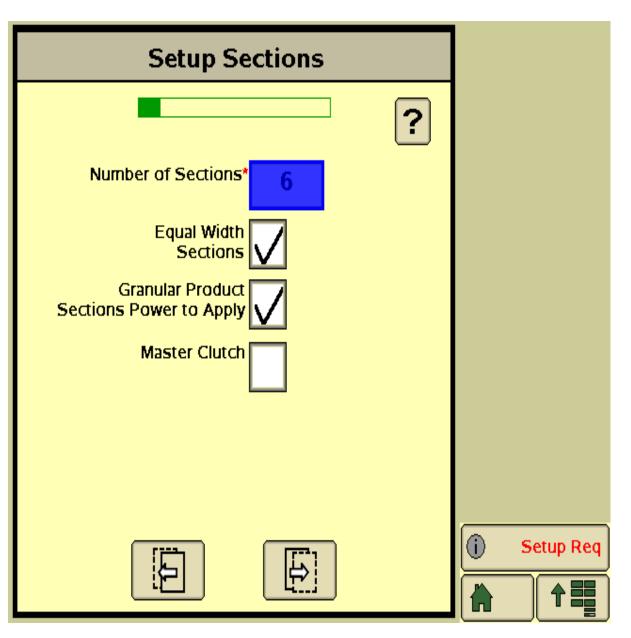


SELECT THE TYPE OF SECTION CONTROL YOUR USING



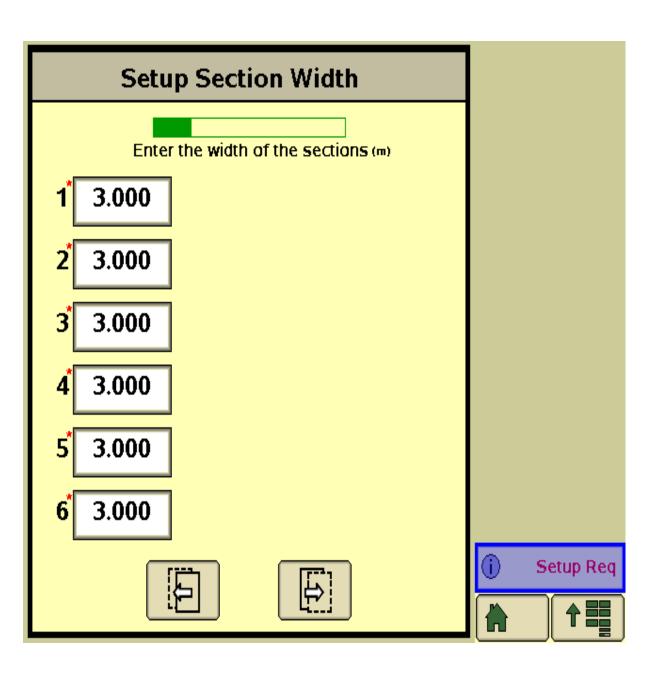


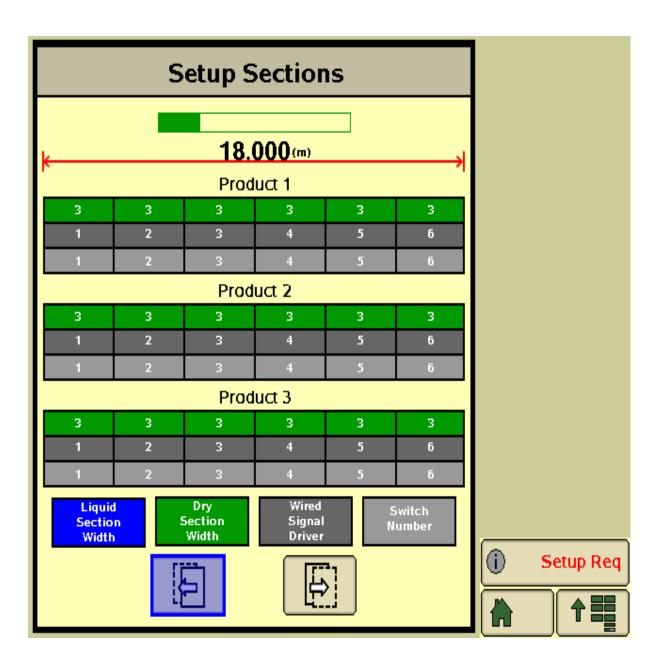
SELECT YES IF YOU ARE SHARING THE
SECTION WIRES BETWEEN THE DRY AND
LIQUID. (TO DO THIS THE DRY BINS WILL NEED
POWER ON WHEN SECTION DRIVERS ARE ON)

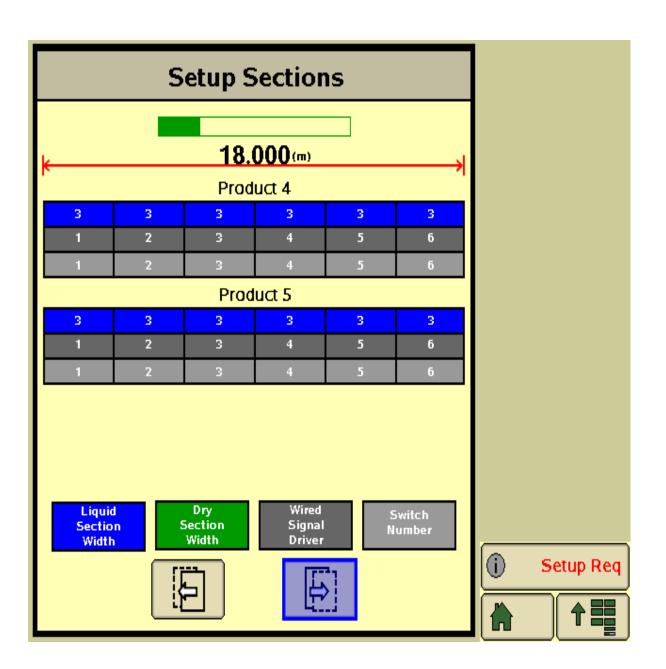


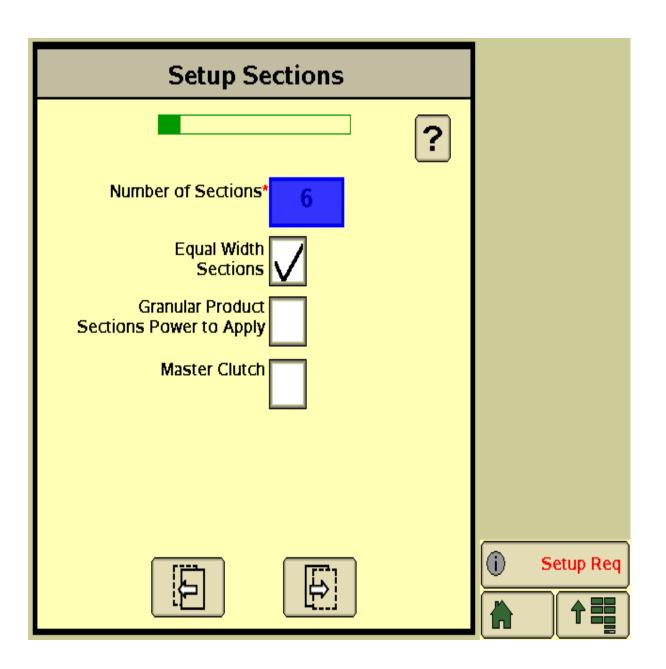
TO SHARE DRIVERS YOU WILL NEED TO TICK GRANULAR PRODUCT SECTIONS POWER TO APPLY

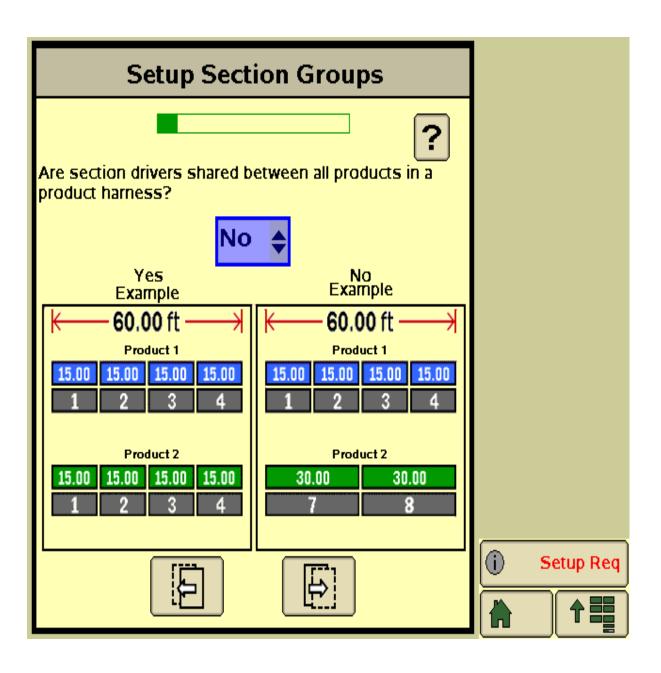
ONLY SELECT CLUTCH IF THE MACHINE IS RUNNING ONE



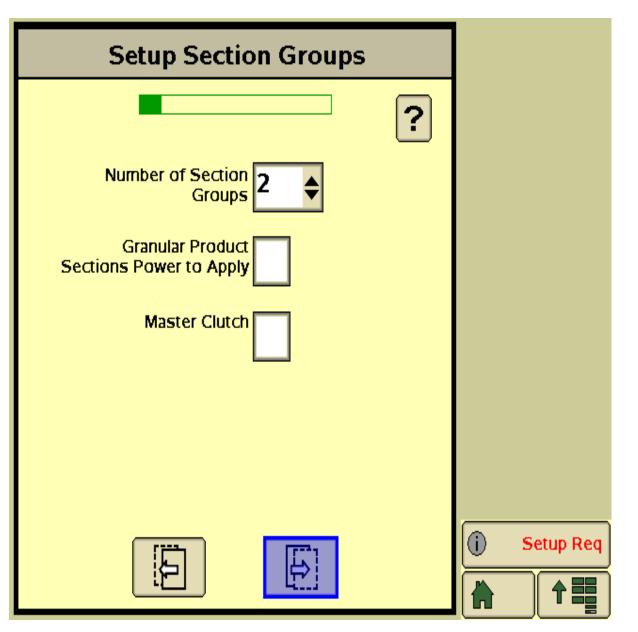




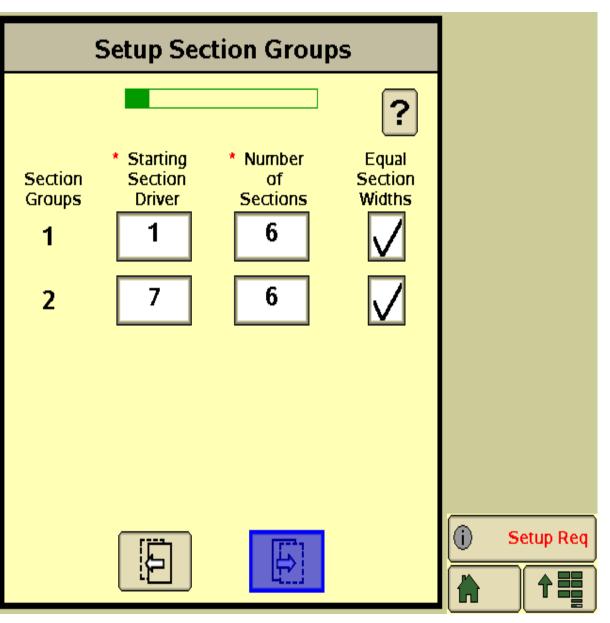




SELECT NO IF YOU ARE NOT SHARING THE SECTION WIRES BETWEEN THE DRY AND LIQUID. (TO DO THIS THE DRY BINS WILL NEED POWER OFF WHEN SECTION DRIVERS ARE ON)



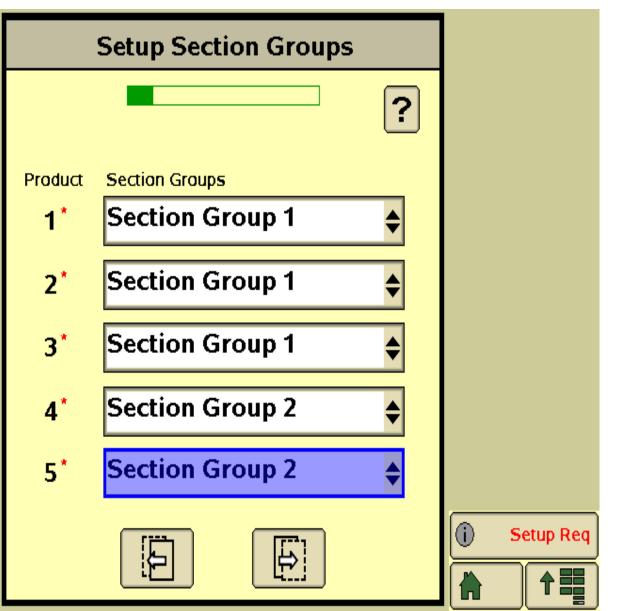
IF YOU ARE WANTING TO SEPARATE THE SECTION DRIVERS BETWEEN BINS SELECT THE NUMBER OF SECTIONS GROUPS



YOU NEED TO ALLOCATE THE TWO GROUPS WITH THE NUMBER OF SECTIONS. THE STARTING SECTION DRIVER IS WHERE THE SECTIONS START.

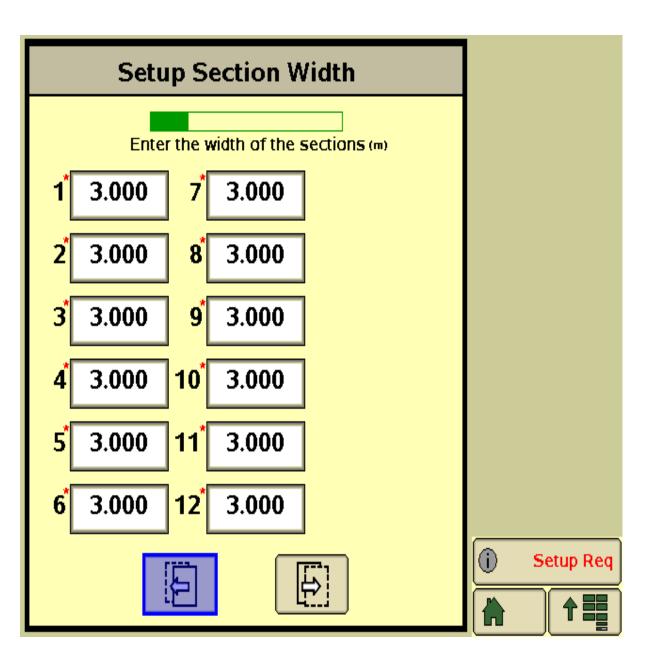
IN THIS EXAMPLE GROUP 1 SSD IS 1 PLUS 6 SECTIONS IS 1-6, GROUP 2 SSD IS 7 PLUS 6 SECTIONS IS SECTIONS 7-12.

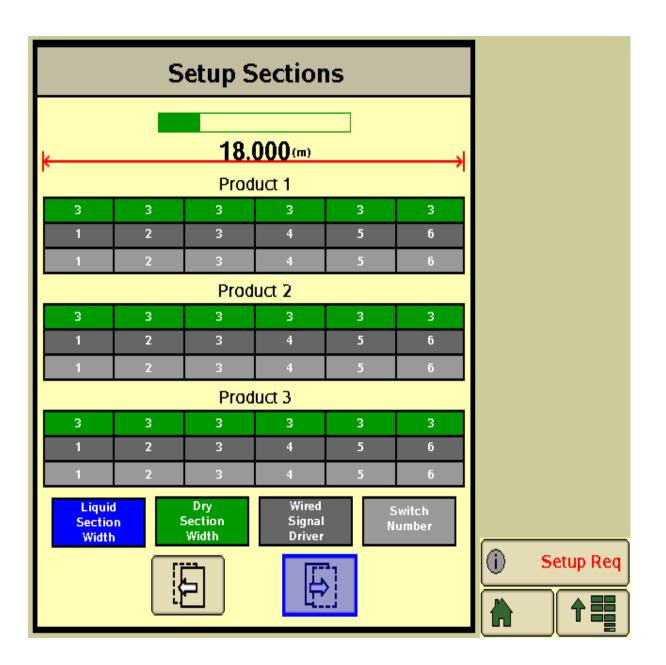
THIS IS DETERMINED BY THE WIRING HARNESS PROVIDED. PLEASE CONSULT THE MANUFACTURER IF COMBINATION IS UNKNOWN

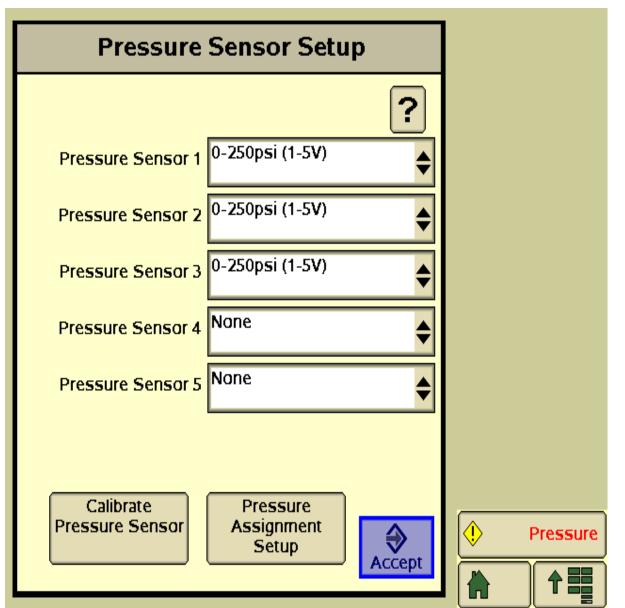


YOU NEED TO ALLOCATE THE TWO GROUPS. IF DOING A WET/DRY SPLIT ALLOCATE THE DRY GROUPS TO ONE SECTION AND THE LIQUID GROUPS TO THE OTHER SECTION

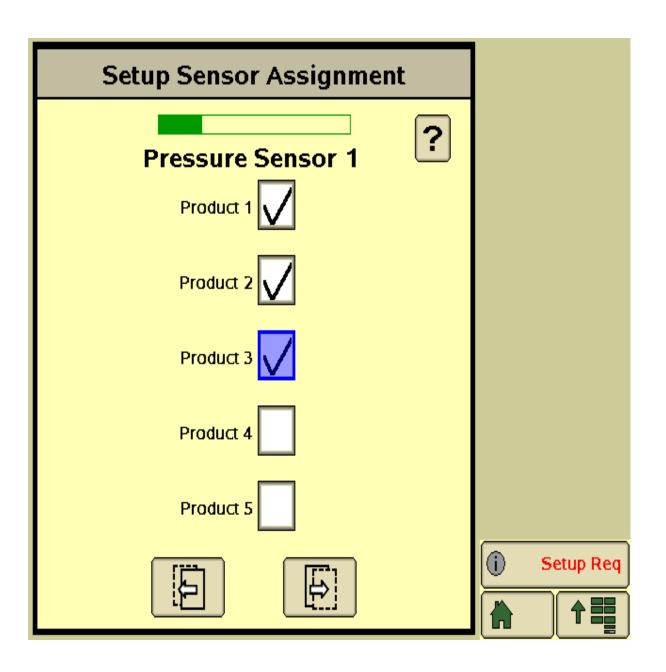
THIS IS DETERMINED BY THE WIRING HARNESS
PROVIDED. PLEASE CONSULT THE
MANUFACTURER IF COMBINATION IS UNKNOWN

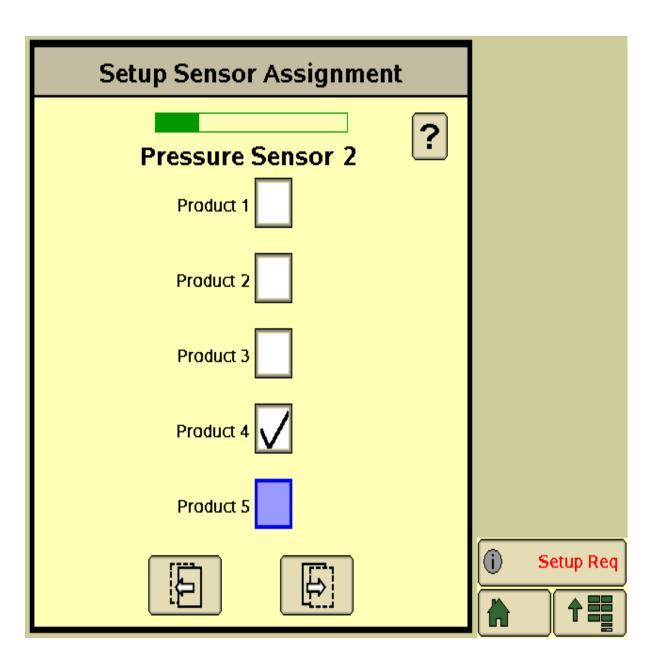


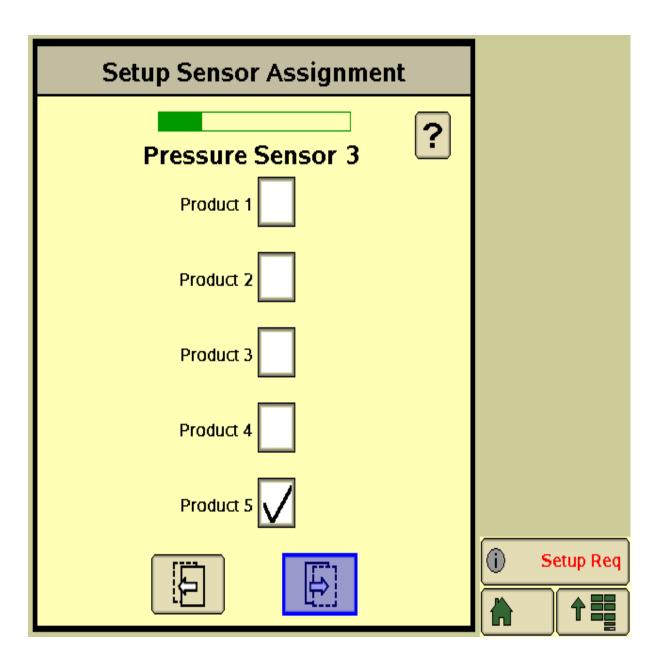


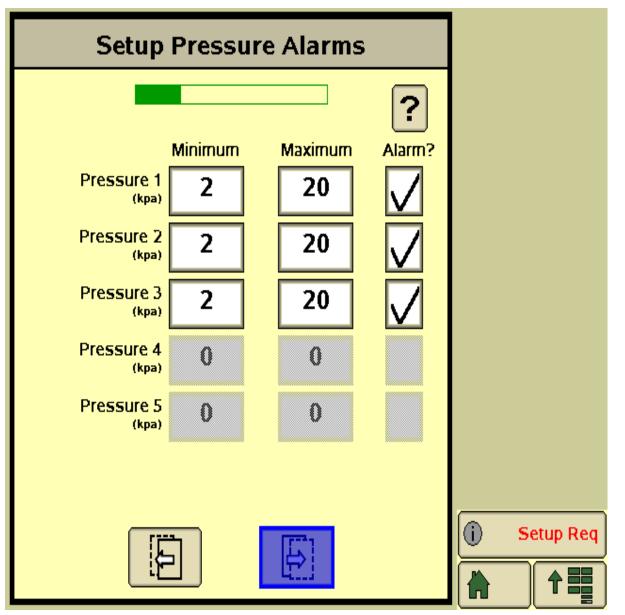


THERE ARE 3 PRESSURE SENSORS PROVIDED THE HARNESS. PRESSURE SENSOR IS FOR BIN AIR PRESSURE. PRESSURE 2 AND 3 ARE LOCATED ON THE 4TH & 5TH BINS RESPECTIVLY AND ARE FOR LIQUID PRESSURE. IF YOU ARENT USING THE PRESSURE SENSOR THEN MAKE SURE IT IS SELCTED TO NONE.

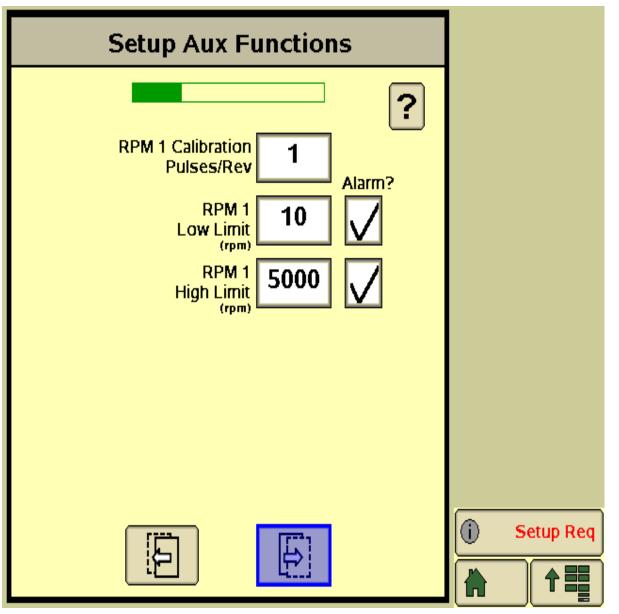




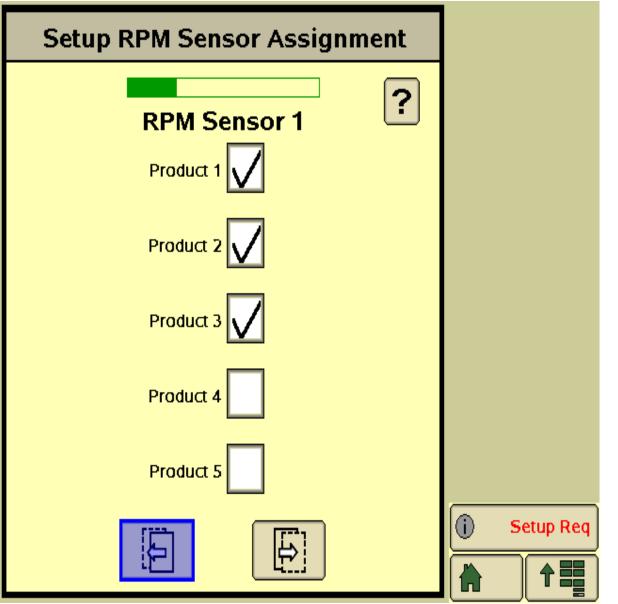




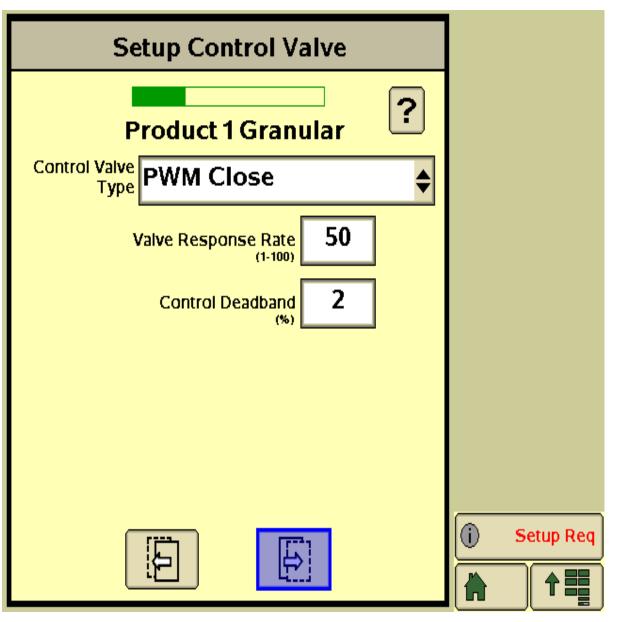
PRESSURE ALARMS SHOULD BE SET ONCE THE PRESSURE SENSOR IS CALIBRATED. THE ALARM MIN AND MAX PRESSURES FOR THE SENSORS ASSIGNED TO LIQUID TANKS WILL HOLD PRESSURE IN LOW SPEED SITUATIONS WHICH MAY ALTER THE TARGET RATE. IF YOU DON'T WANT THIS TURN THE ALARMS OFF OR SET MINIMUM TO 0



SELECT HOW MANY PULSES THE FAN SEE PER REVOLUTION

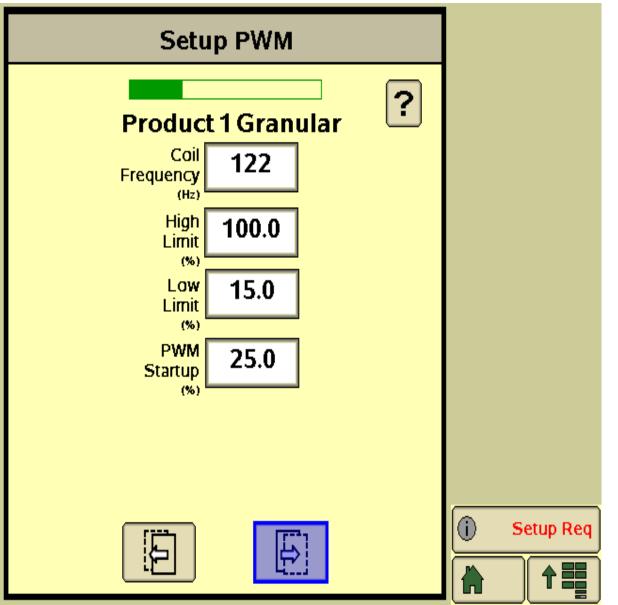


FANS CAN BE ASSIGNED TO BINS. EVERY BIN DOES NOT NEED A FAN ASSIGNED TO IT

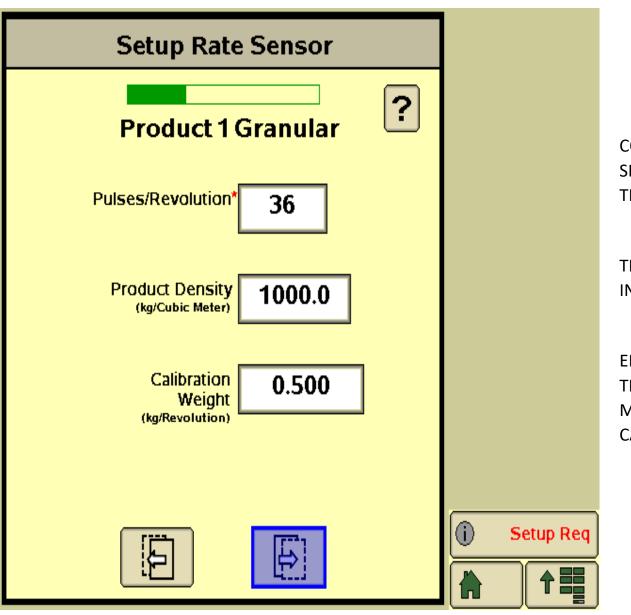


THERE ARE 2 CHOICES FOR CONTROL VALVE
TYPES. HYDRAULIC MACHINES TYPICALLY RUN A
PWM CLOSE SYSTEM, WHILST A GROUND DRIVE
LINEAR ACTUATOR MACHINE WILL USE THE FAST
CLOSE OPTION.

THE RESPONSE RATE AND DEADBAND CAN BE FINE TUNED ONCE THE MACHINE IS OPERATIONAL. THE SETTINGS PROVIDED HERE ARE A GOOD BASE



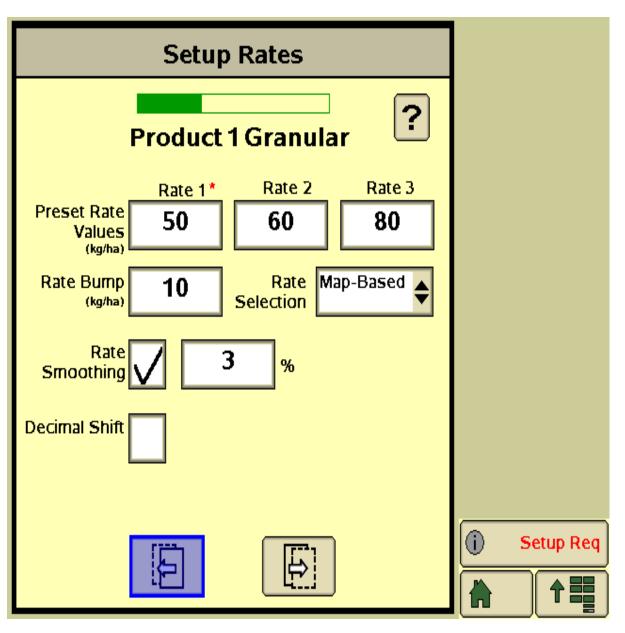
MAKE SURE THE PWM SETTINGS ARE SET TO THIS COIL FREQUENCY. THE HIGH LIMIT CAN BE SET TO 100, UNLESS YOU ARE LOOKING AT LIMITING DRIVE SPEED. START THE LOW AND STARTUP ON THESE NUMBERS. A PWM CALIBRATION FOR EACH BIN IS IMPORTANT ONCE MACHINE IS RUNNING. THIS WILL FINE TUNE THE RESPONSE OF EACH BIN.



COUNT HOW MANY PULSES THE METERING SENSOR WILL SEE PER ROLLER REVOLUTION FOR THE PULSES/REVOLUTION NUMBER

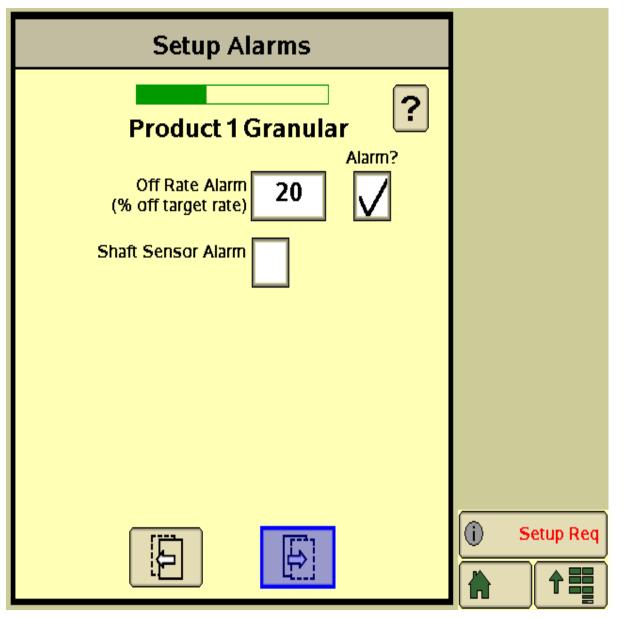
THE DENSITY OF THE PRODUCT CAN BE FOUND IN THE MANUFACTURE SPECS OF THE FERTILISER

ENTER A GENERIC CALIBRATION WEIGHT FOR
THE PRODUCT (THIS NUMBER WILL CHANGE PER
MACHINE AND PER PRODUCT) THIS WILL BE
CALIBRATED PROPERLY AFTER THE WIZARD

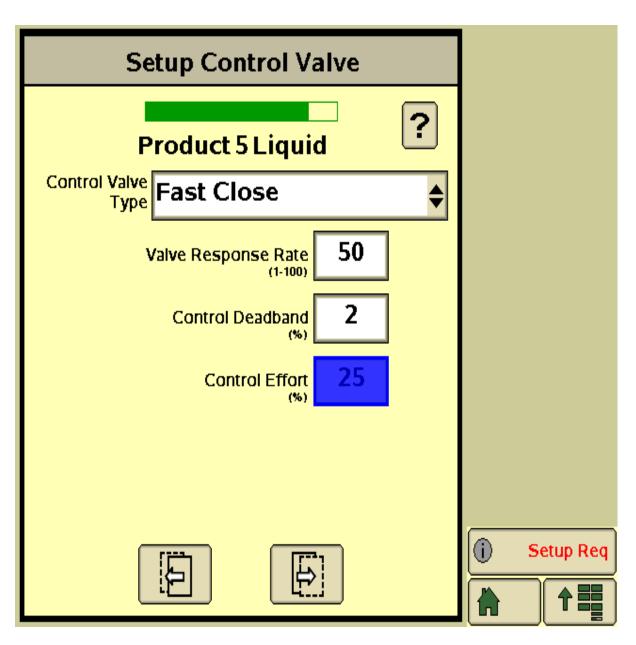


SELECT A PREDEFINE RATE, HOW THE RATE SELECTION WILL BE MADE AND THE AMOUNT OF SMOOTHING YOU WOULD LIKE (3-5% SHOULD BE ENOUGH)

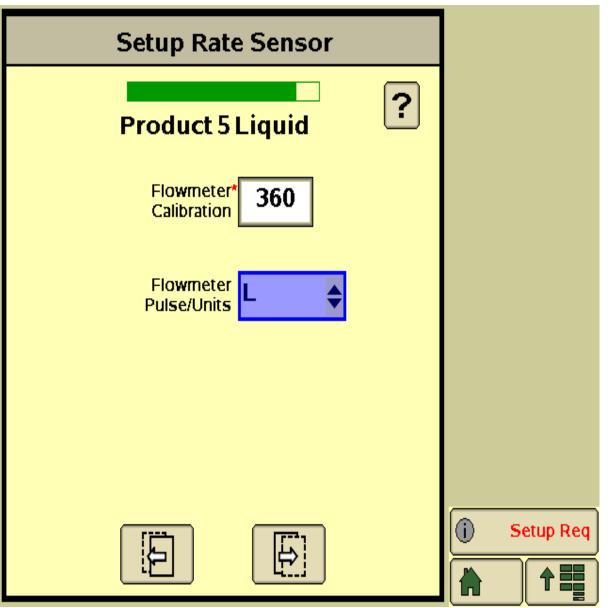
ALL THESE SETTINGS CAN BE CHANGE IN THE CONTROLLER AFTER THE WIZARD



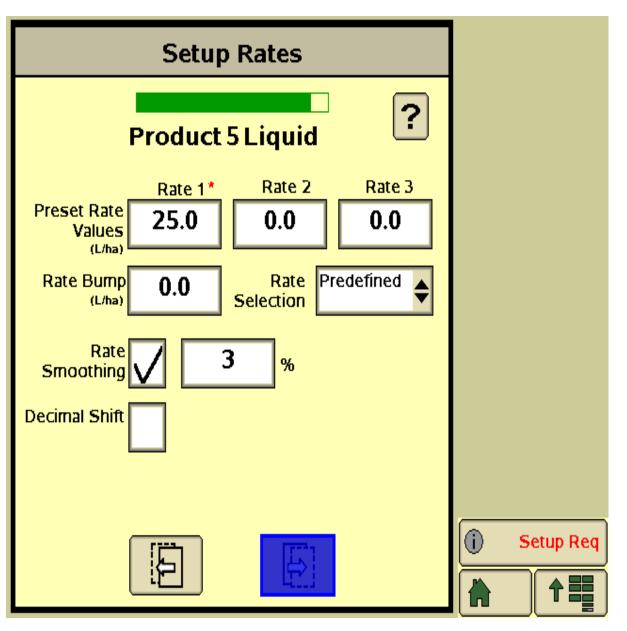
THE OFF-RATE ALARM WILL ALERT IF APPLIED RATE DROPS BELOW TARGET RATE. THIS CONTROLLER CAN MONITOR 2 SHAFT SPEEDS. THE SECONDARY CAN BE USED ON THE METERING WHEEL WHILE THE PRIMARY CAN BE PUT OF A HIGH-SPEED SHAFT FOR SMOOTHER RATES. IF USING THIS OPTION, TICK THE SHAFT SENSOR ALARM



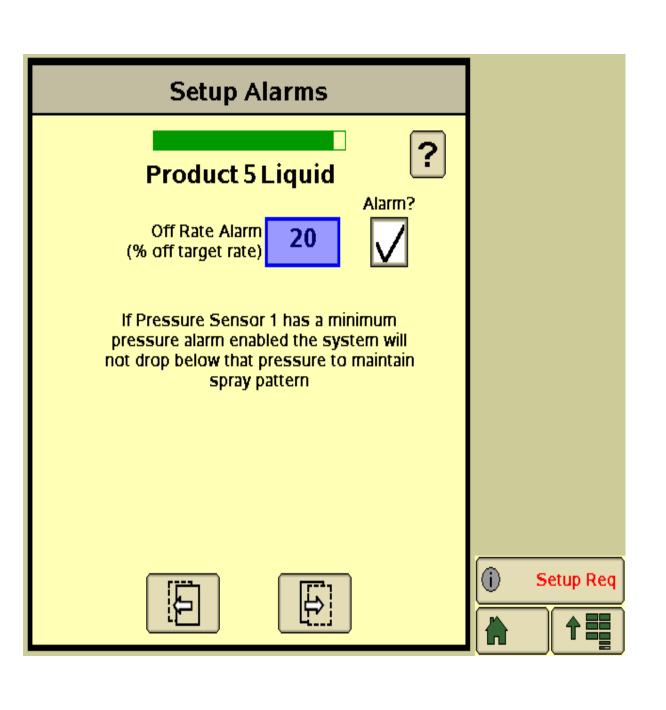
USE THE FAST CLOSE OPTION ON LIQUID REG VALVES AND LINEAR ACTUATORS. USE AROUND 25% FOR LIQUID VALVES AND AROUND 75% FOR LINEAR ACTUATORS. THESE NUMBERS CAN BE FINE TUNED IN THE CONTROLLER BASED ON IN FIELD OPERATIONS



USE THE CALIBRATION PROVIDED ON THE FLOWMETER. IF NOT USE CLOSE ESTIMATE AND CALIBRATE IN THE RATE CONTROLLER. MAKE SURE THE UNITS ARE SELECTED TO L



SETUP PRESET RATES THE SAME AS DRY BINS



Setup Summary

Profile Name Airseed 5 bin Machine Type Air Cart

Number Of Products 5
Number of Sections 12
Application Width (m) 18,000
Switchbox Present No
Master Clutch No
Granular Product
Sections Power to Apply

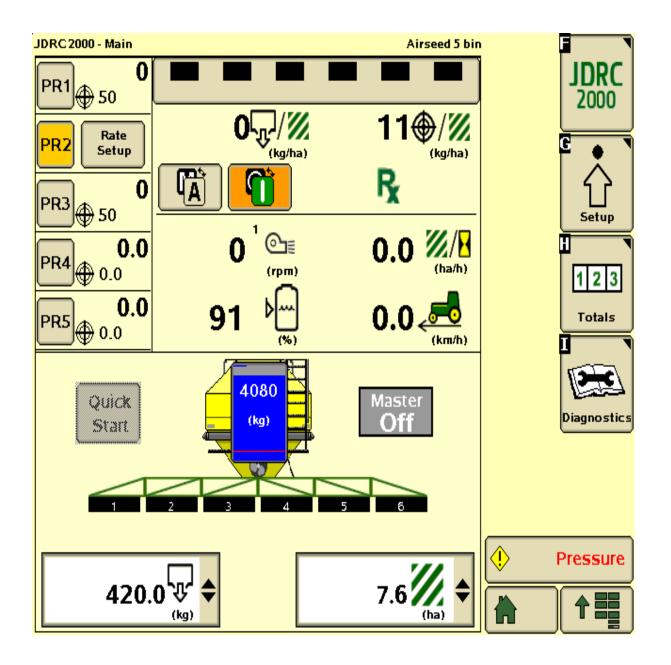






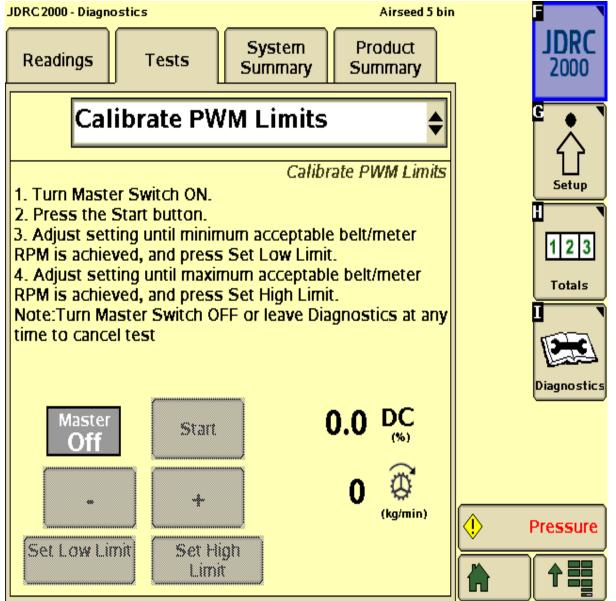




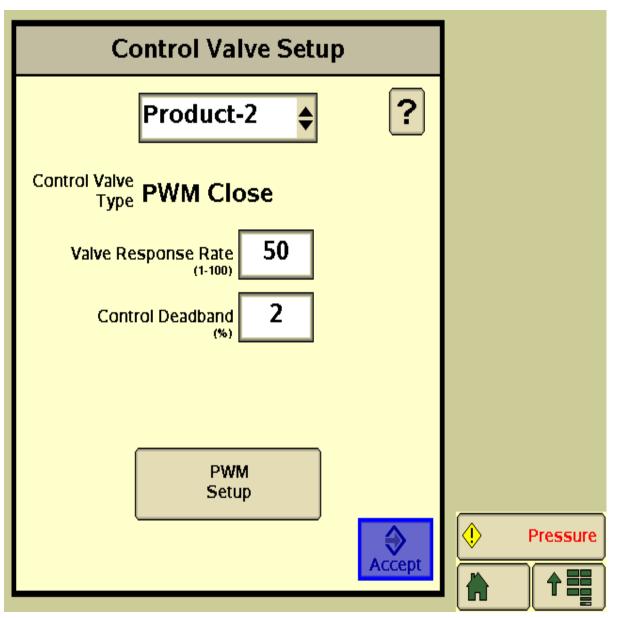


CLICK ON EACH BIN ON THE LEFT HAND SIDE.
CLICK THE RED CIRCLE TO TURN ON THE BIN, IT
SHOULD GO GREEN AS PICTURED. IF NOT USING
ALL 5 BINS ONLY TURN ON THE ONES YOU ARE
USING.

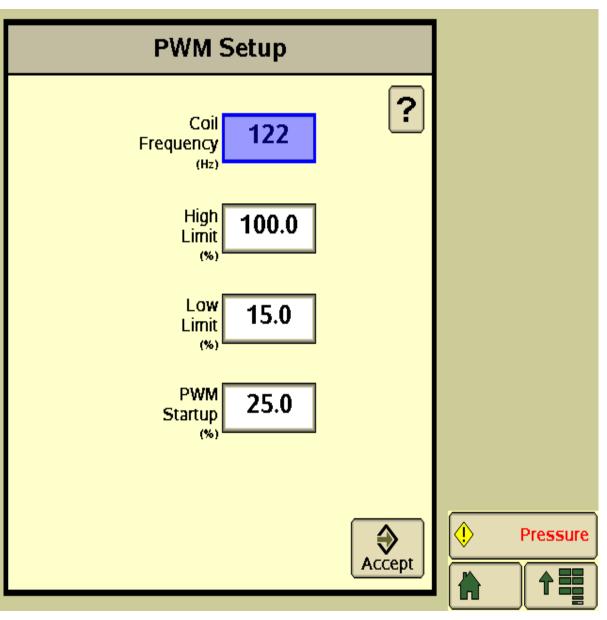
YOU NEED TO HAVE FAN SPEED AND METERING SPEEDS FOR ALL BINS TO RUN. IF THE CONTROLLER DOES NOT SEE A SPEED ON A BIN THE IT WILL SEND A WARNING AND THE MASTER SWITCH WILL TURN ORANGE



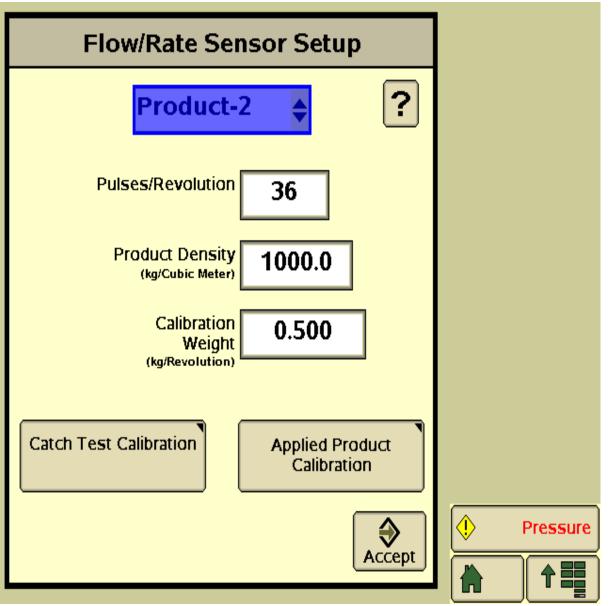
CALIBRATE EACH BINS PWM LIMITS. FOLLOW THE INSTRUCTIONS ON THE TEST.



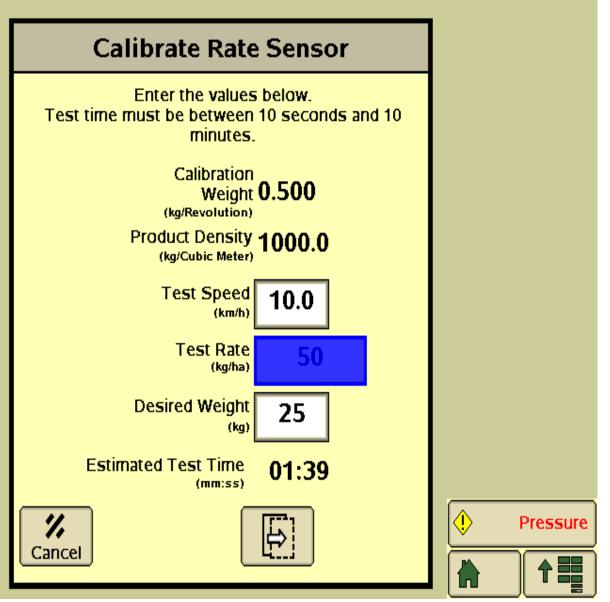
THESE SETTINGS FOR THE VALVE SHOULD WORK WELL. IF THE VALVE IS SLOW TO MOVE BETWEEN RATES YOU MAY WANT TO PLAY WITH THE RESPONSE RATE. FURTHER UNDERSTANDING OF WHAT THIS DOES CAN BE FOUND BY CLICKING ON THE



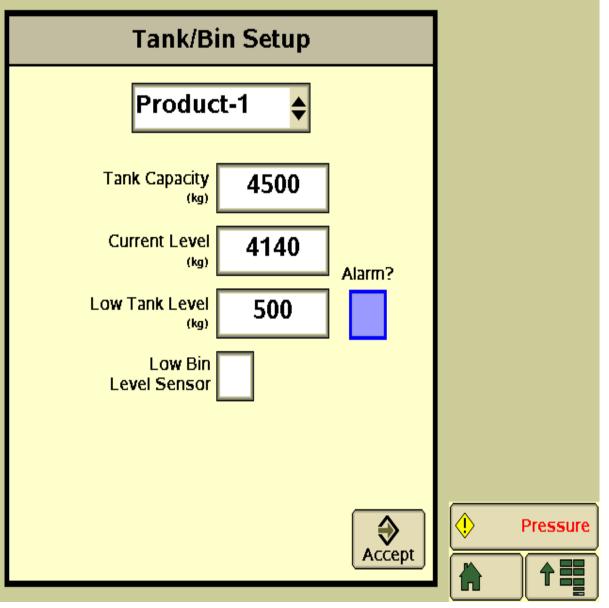
ONCE CALIBRATED YOU CAN PLAY WITH THE START UP PWM. IT IS BEST TO SET IT 10-15% ABOVE THE LOW LIMIT TO KICKSTART THE VALVE



GO TO THE FLOW/RATE SENSOR SETUP TO CALIBRATE THE PRODUCT



CALIBRATE EACH PRODUCT UNTIL YOU MATCH
THE DESIRED WEIGHT. THESE NUMBERS WILL
WORK FOR MOST PRODUCTS. THE DESIRED
WEIGHT TO MESURE IS UP TO THE OPERATOR.
MOST SEED AND FERT PRODUCTS ARE LIMITED
BY THE AMOUNT YOU CAN MEASURE. THE MORE
THE BETTER IF POSSIBLE



THE BIN/TANK SETUP ALLOWS YOU TO MAKE CHANGES FROM THE WIZARD

Display Data

The data fields selected on this page will be displayed on the top half of the Main Run screen as well on the Soft Key region Home screen.

Only 1, 2, and 3 will be displayed on the Soft Key region Home screen

Space 1 Information



Space 2 Information



Space 3 Information



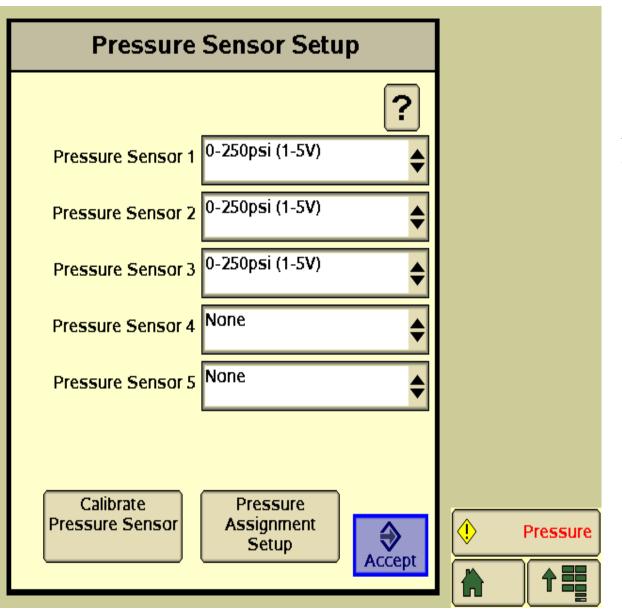
Space 4 Information







THE DISPLAY DATA IS IMPORTANT. EACH TANK CAN HAVE A DIFFERENT PIECE OF DATA. WE SUGGEST HAVING THE FAN SPEED ON AT LEAST ONE OF THE BINS FOR MONTORING.



YOU CAN MAKE CHANGES FROM THE WIZARD AS WELL AS CALIBRATING THE SENSORS IF NEED BE

Pressure Assignment Setup

Sensor-1



Pressure sensors can only be assigned to products in the Setup Wizard. To change products to pressure sensor assignments user must edit profile.

Product 1 Assigned

Product 2 Unassigned

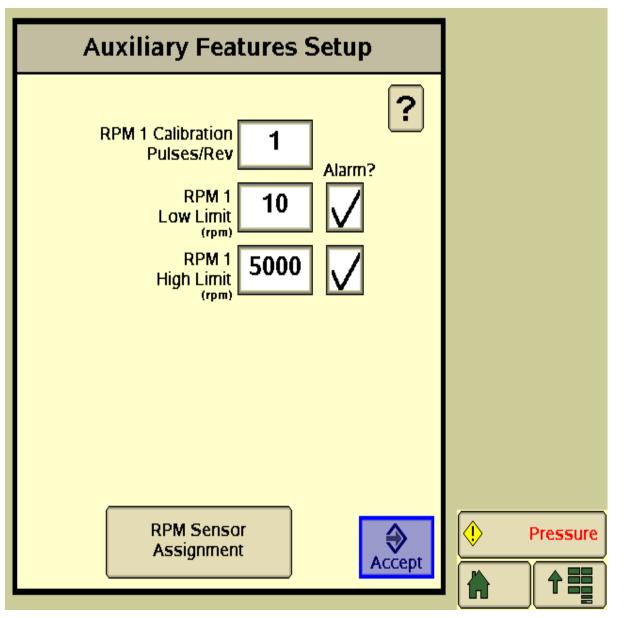
Product 3 Unassigned

Product 4 Unassigned

Product 5 Unassigned







THE AUX FEATURES IS WHERE YOU CAN CHANGE FAN ALARM SPEEDS AND THE CAIBRATION. YOU CAN ONLY CHANGE THE NUMBER OF FANS RUNNING IN THE SETUP WIZARD. BY EDITING THE PROFILE

RPM Assignment Setup

RPM Sensor 1



RPM sensors can only be assigned to products in the Setup Wizard. To change products to RPM sensor assignments user must edit profile.

Product 1 Assigned

Product 2 Unassigned

Product 3 Unassigned

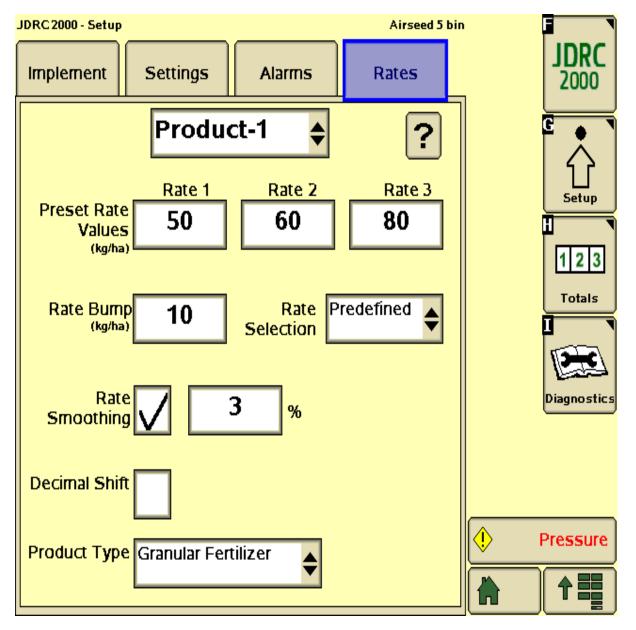
Product 4 Unassigned

Product 5 Unassigned





SENSOR ASSINGMENTS CAN BE CHANGED IN THE AUX FEATURES SETUP



RATES AND RATE SELECTION CAN BE CHANGED UNDER THE SETUP MENU. THE RATE SELECTION ALLOWS YOU TO RUN A MAP BASED RATE. THE PRODUCT TYPE WILL AFFECT THE DOCUMENTATION SETUP. IF YOU RUN A SEED TYPE YOU WILL NEED TO SETUP THE CROP IN THE DOCUMENTATION MENU.

ONLY THE FIRST 4 BINS CAN RUN PRESCRIPTION MAPS. DUE TO A DOCUMENTATION LIMIT ON THE GS3 SCREEN. IF YOU WANT A PRODUCT ASSOCIATED WITH EACH BIN IT WILL NEED TO BE SETUP IN DOCUMENT