6000 with X30 operational check

The following procedure will help with ensuring that a New 6000 series air-seeder with X30 functions properly.

This operational check should be completed on or before the first day of seeding.

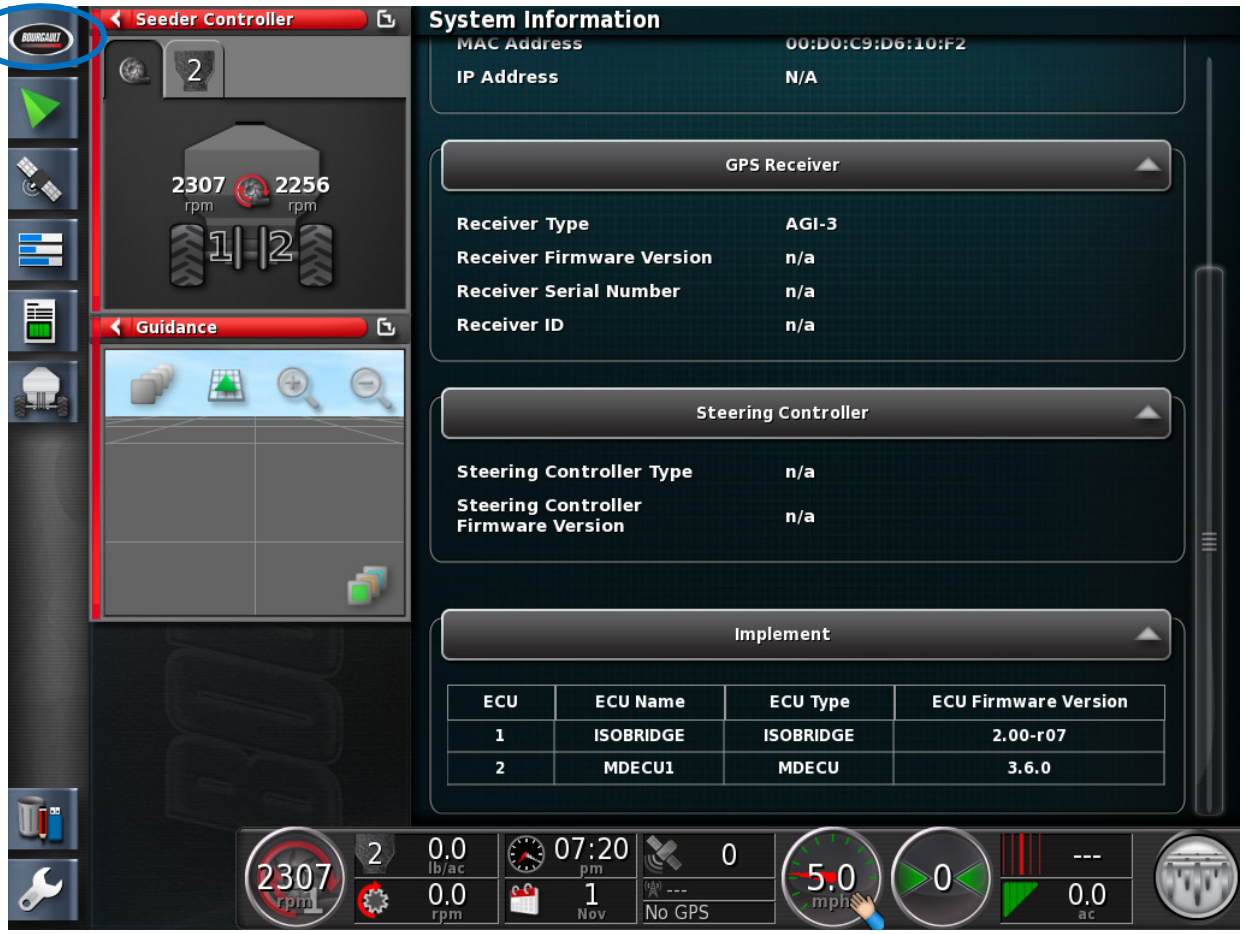
Important note: the following settings are to test the majority of the functions, some of the settings and selections may not be how the customer chooses to operate their 6000 series seeder. You might have to put some of the settings back to the original state.

Ensure all connections are correct as outlined in the operators manual

When you power up the X30 you should get a green warning, this is a good indication that it has found the tank ECU.

If something is not hooked up properly or if an incorrect option is selected you will get orange warnings as to what is incorrect.

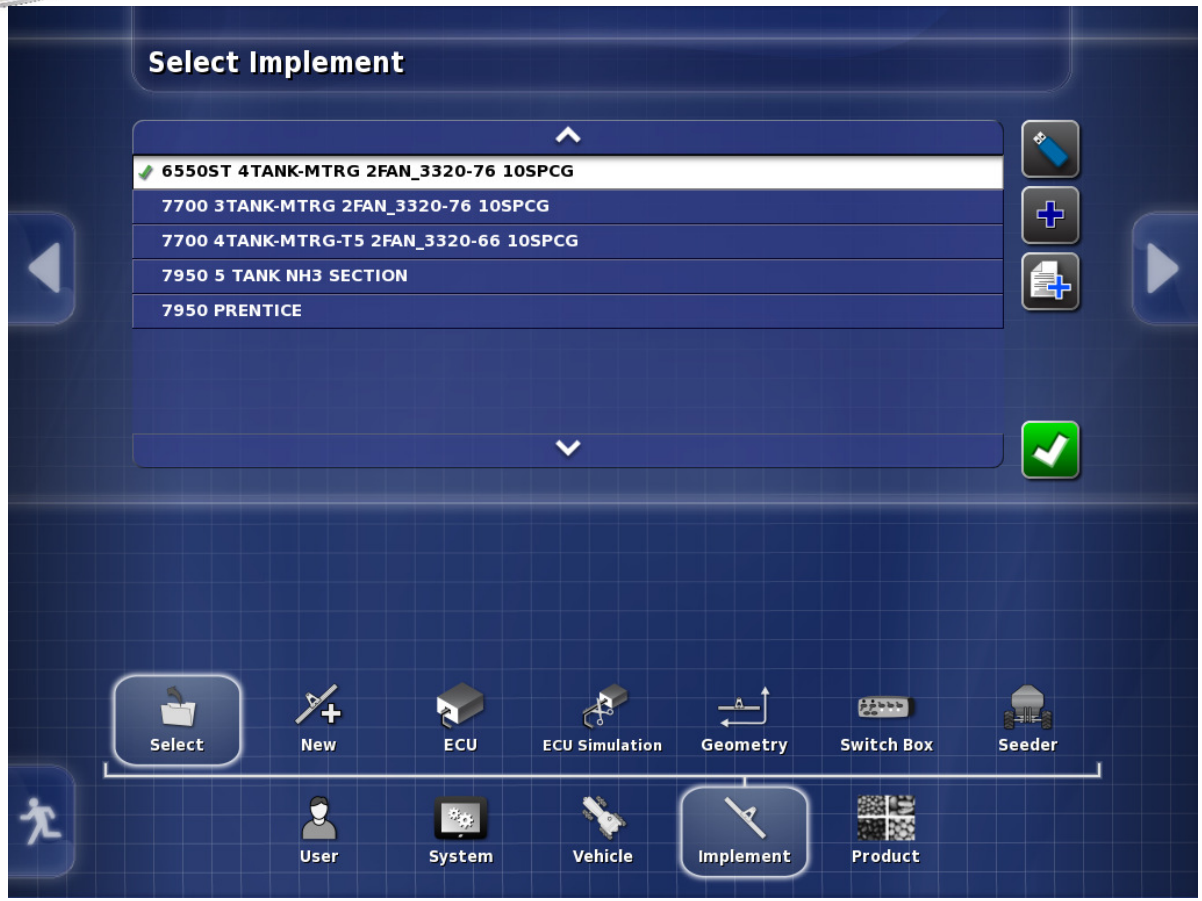
Bourgault icon



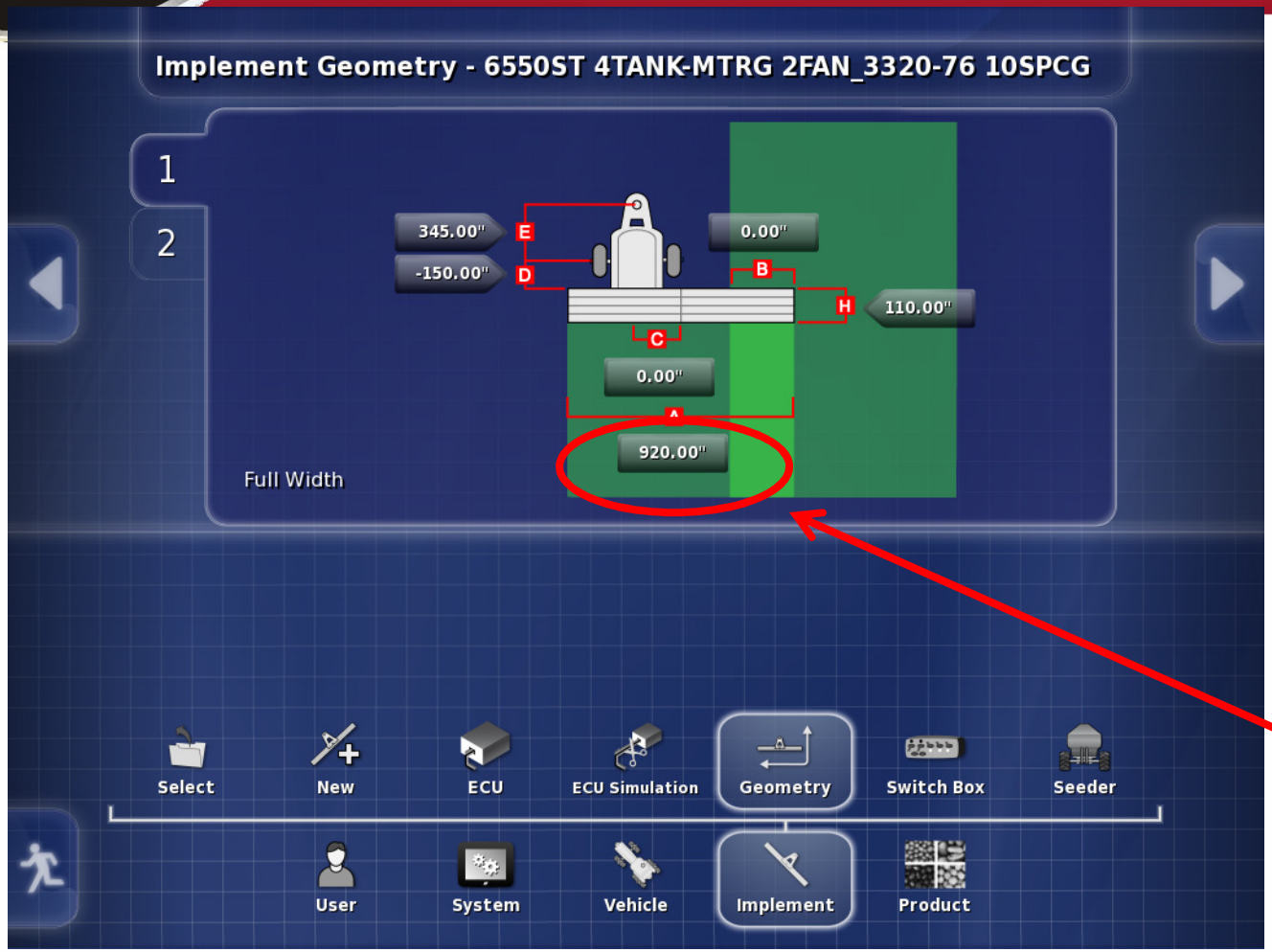
Touch the Bourgault icon (top left corner) then drag it to the right. When everything is connected properly you will be able to view software and firmware versions.

Access the SETUP screen (wrench in bottom left corner)

Once you have entered SETUP go to User/Units and the units should be Imperial(US), the Pressure Units in psi, the Area Units in ac, Dry Product Volume Units in Bushels and the Dry Density Units in Pounds Per Cubic Foot.



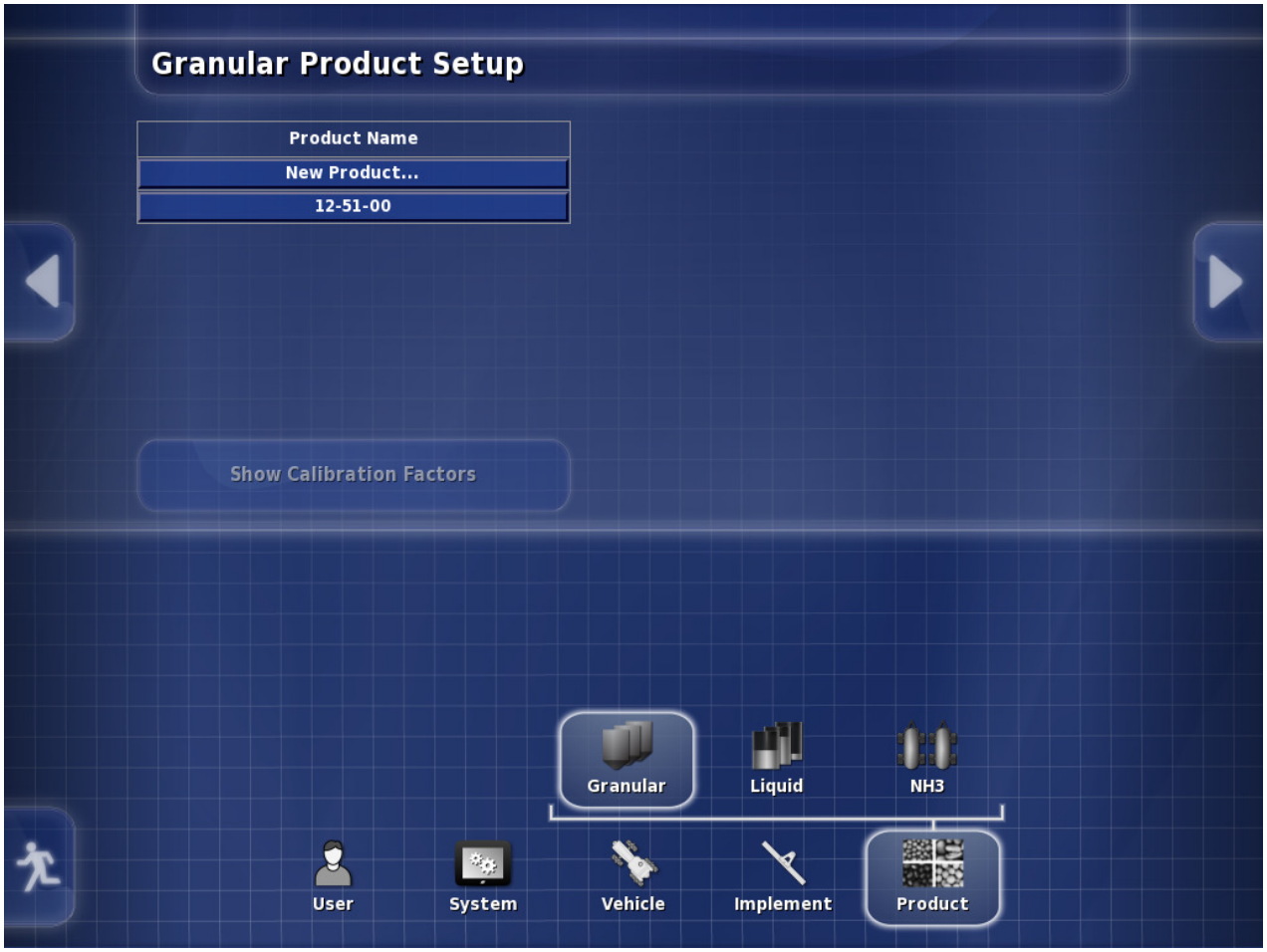
Next go to Implement/Select. Verify that the correct profile has been selected, if not follow the implement procedure outlined in the X30 manual.



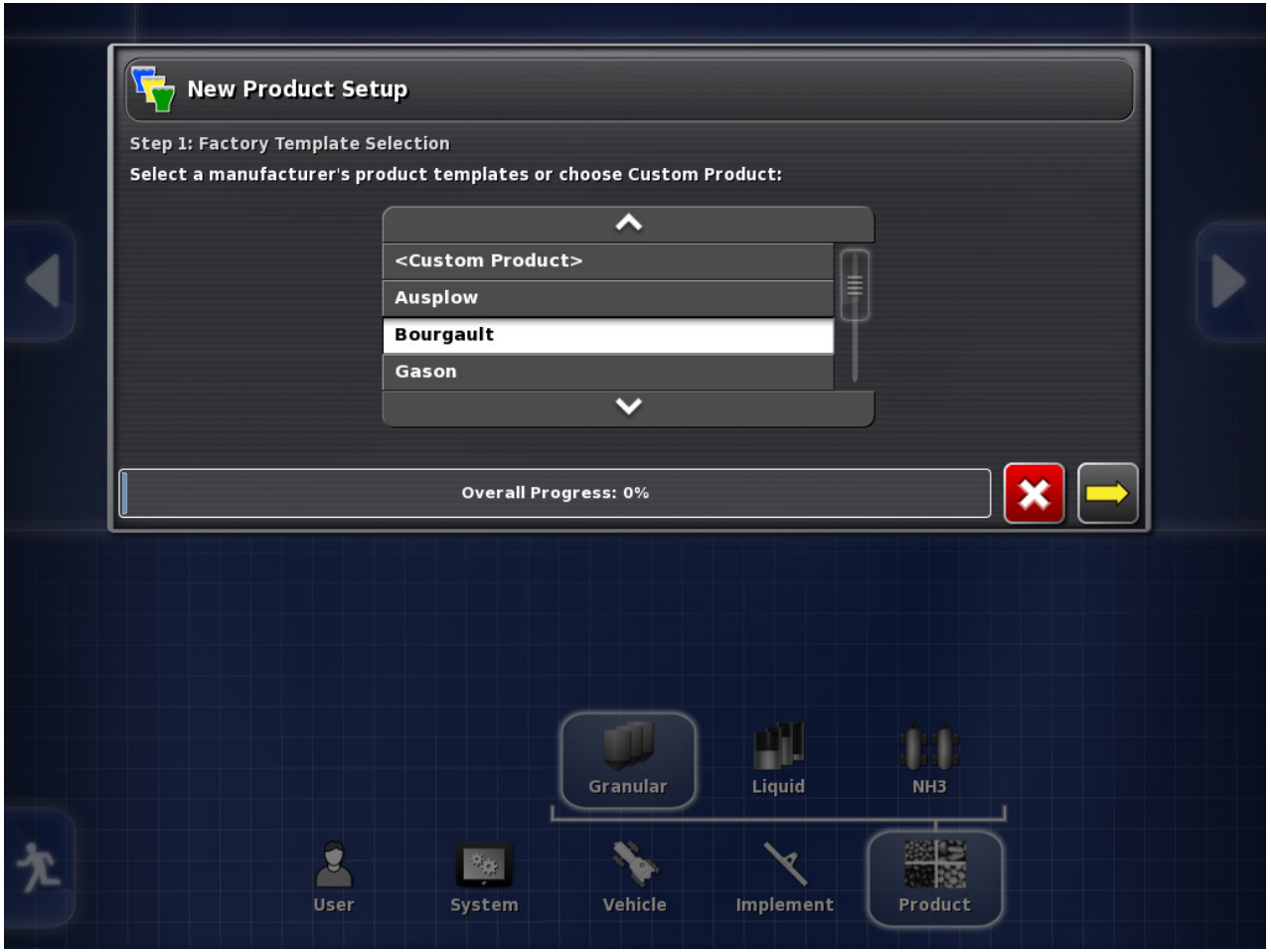
Next go to Geometry and if section control is not used enter Implement width in inches.

Next go to Switch Box: Master switch: (Cabin Switchbox), Switch on Position: (Up), Cabin Switchbox: (6 Channel) and Calibration Switchbox: (Disabled)

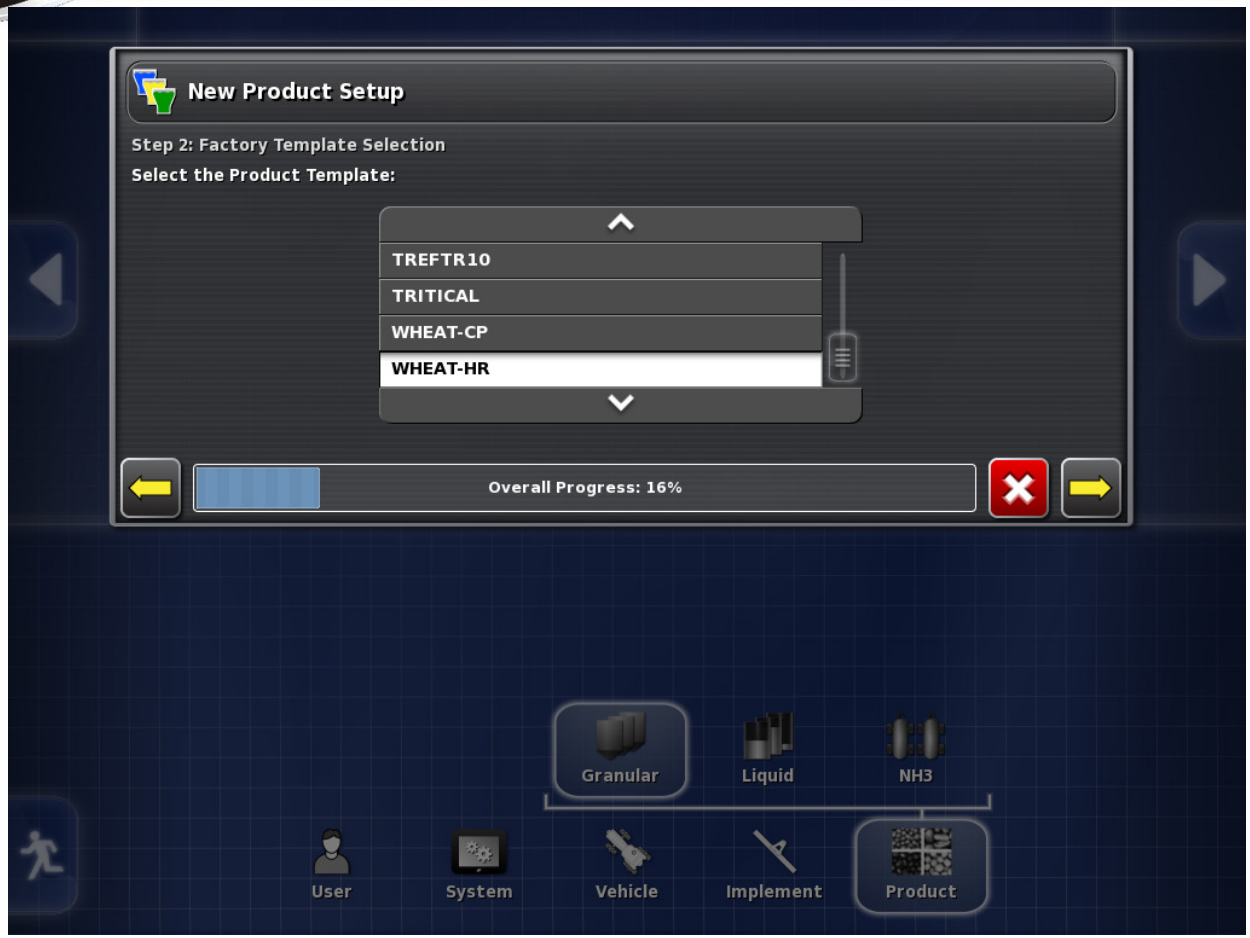
Next go to Seeder/Drive Setup then set up all tanks the same. (these settings are for a 6000 series tank. Drive Type: (Linear Actuator), Encoder Pulses/Revolution: (16), Tank Clutch Enabled



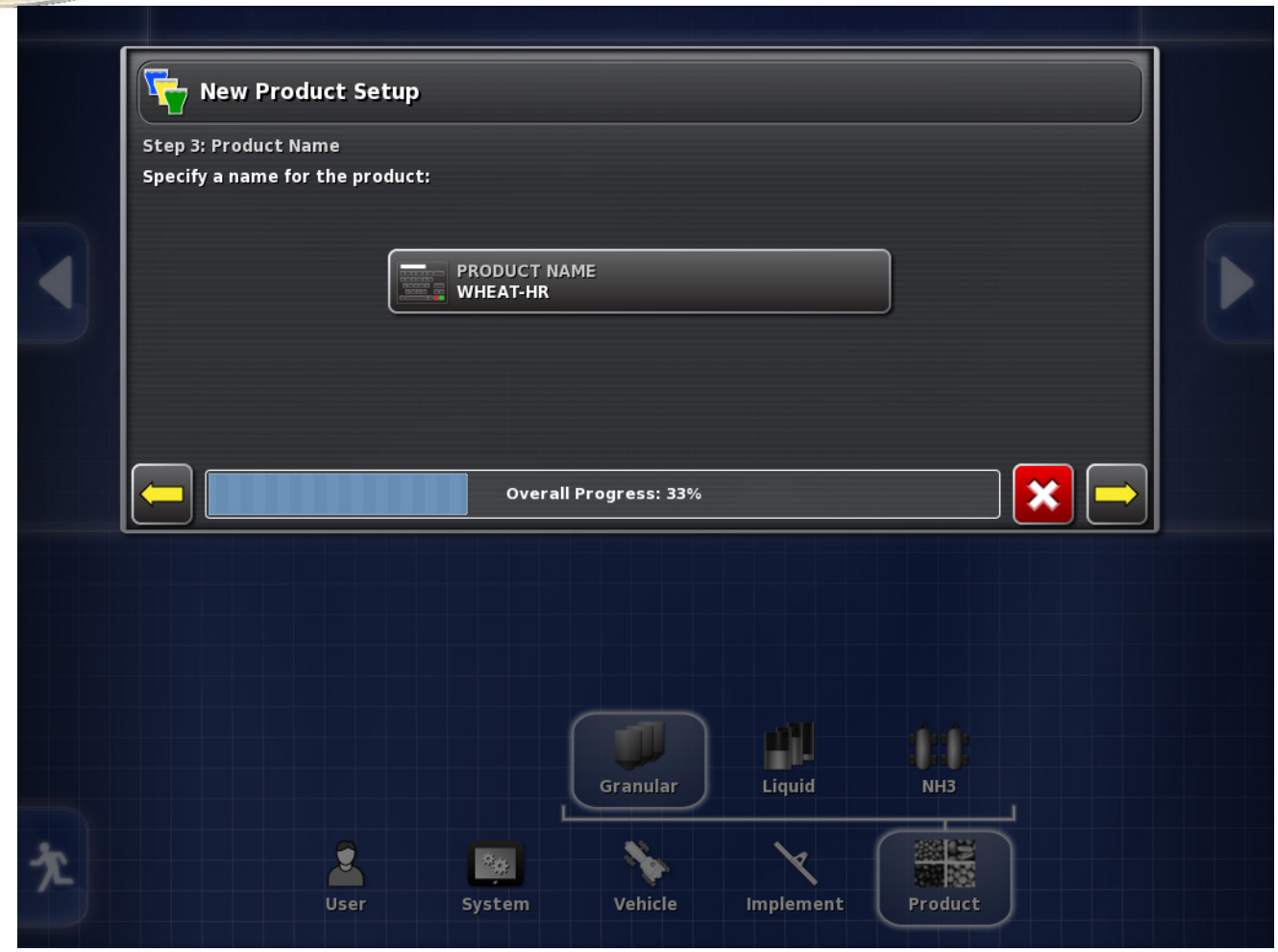
Next go to Products/Granular/New Product



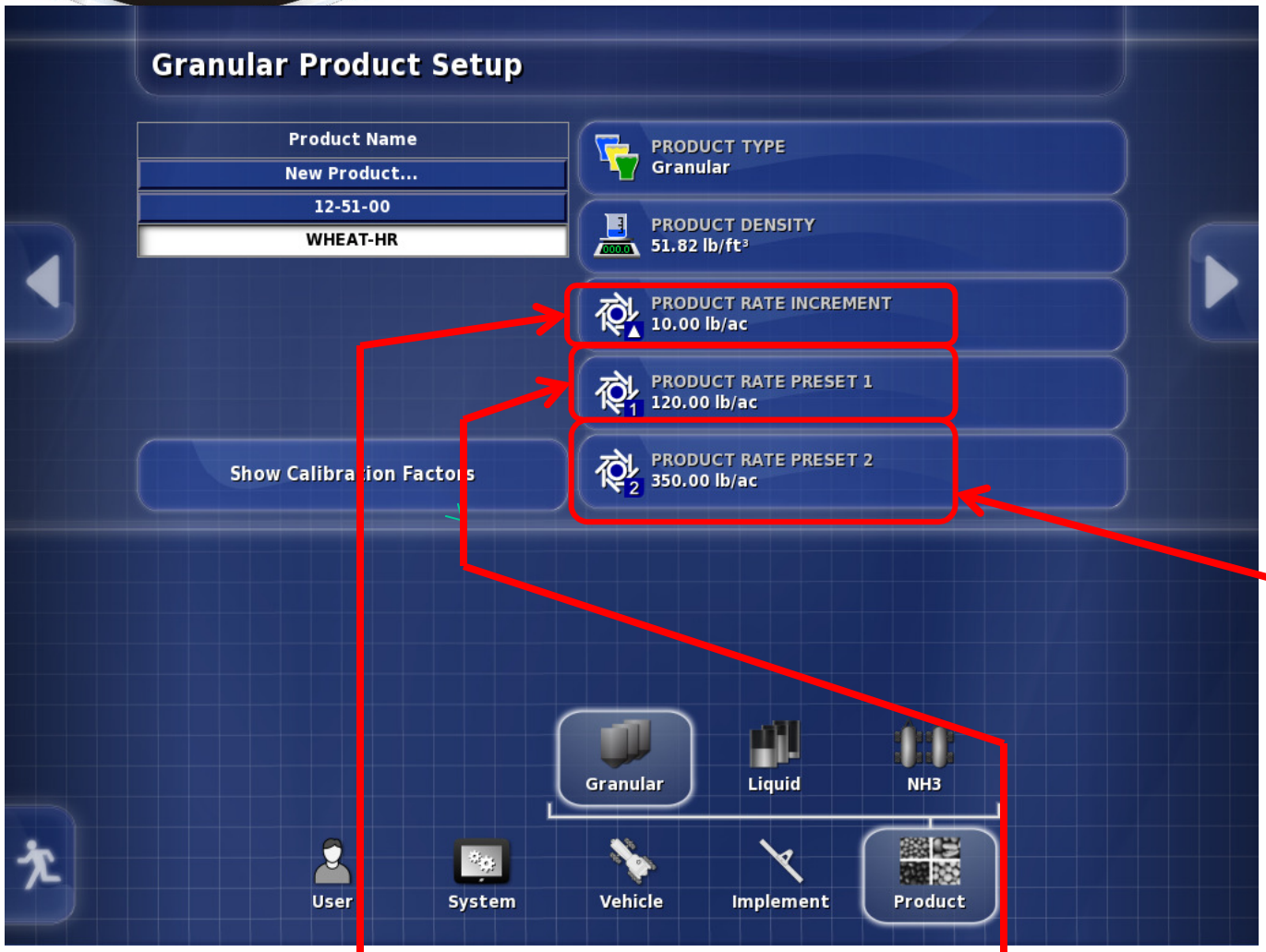
Next Select Bourgault and touch the yellow arrow .



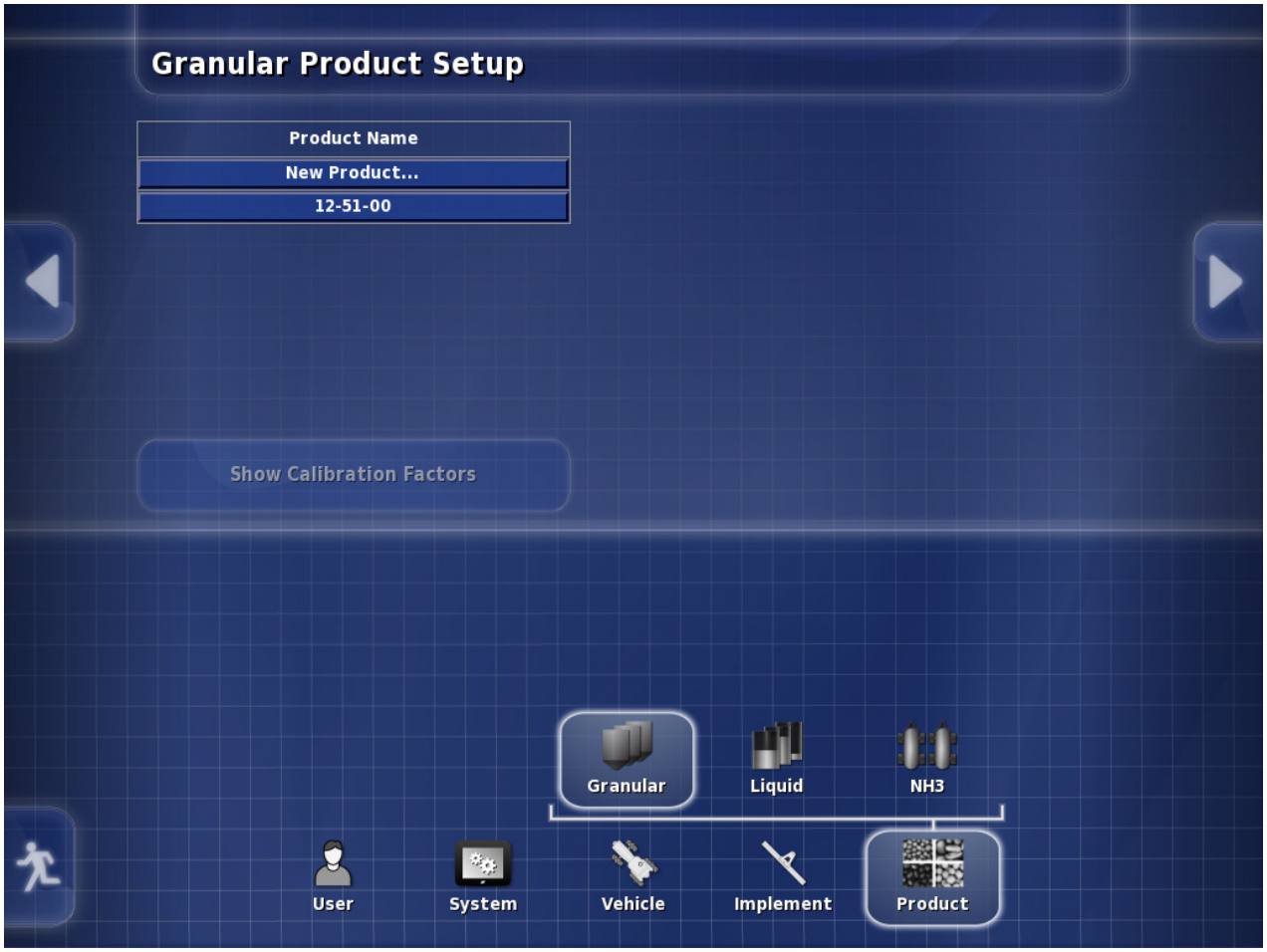
Next Select Wheat-HR and touch the yellow arrow.



Next Verify Wheat-HR and touch the yellow arrow.

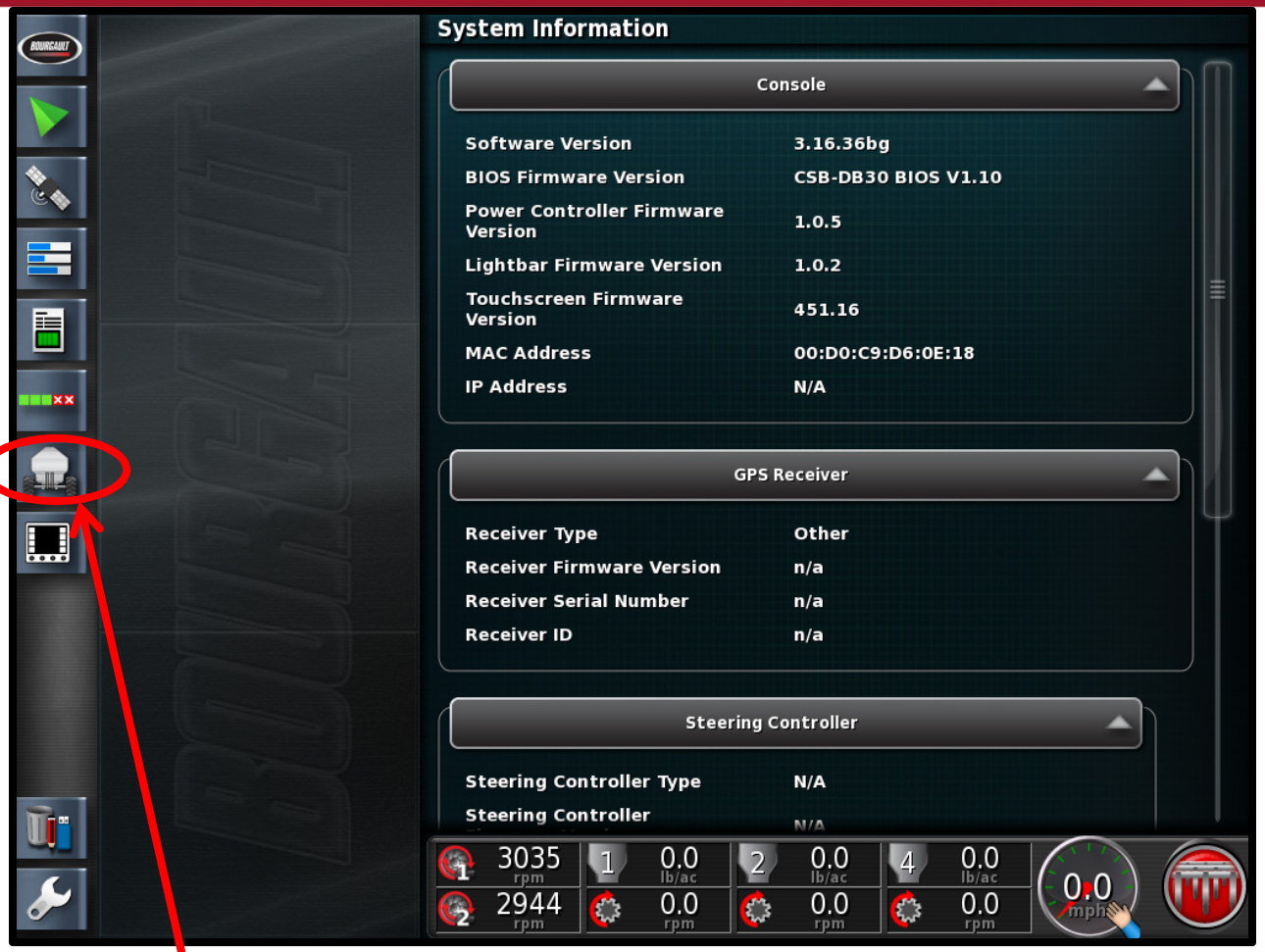


Enter Product Rate **Increment: (10), Product Rate Preset 1 : (normal seeding rate), Product Rate Preset 2 : (secondary seeding rate)** the high rate is to check max shaft rpm later

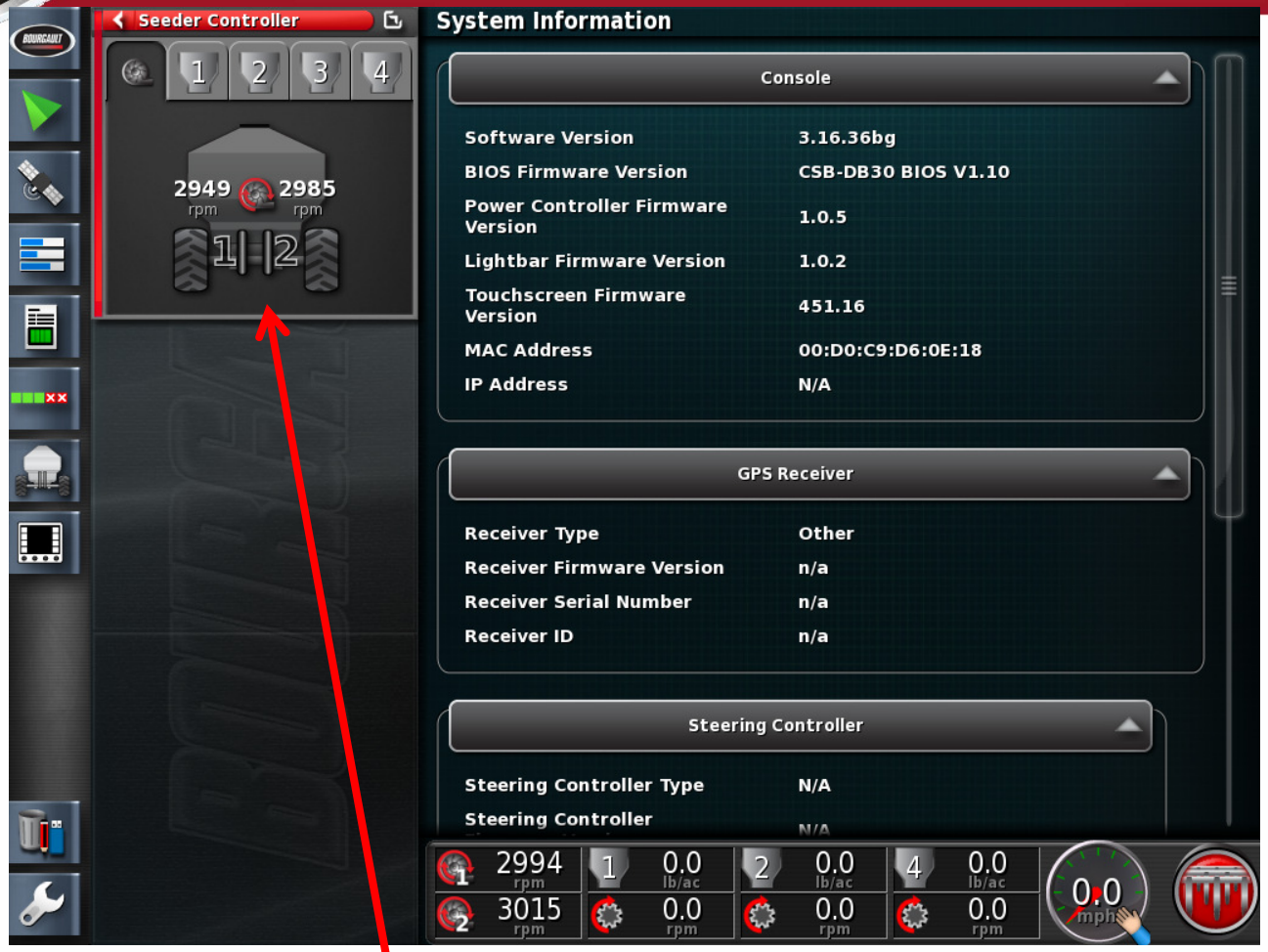


Next select all of the products that will be seeded to create a list for the seeding year.

Touch the Running Man in the lower left corner to return to the seeder page.



Select the Seeder controller tab on the left side of the screen.

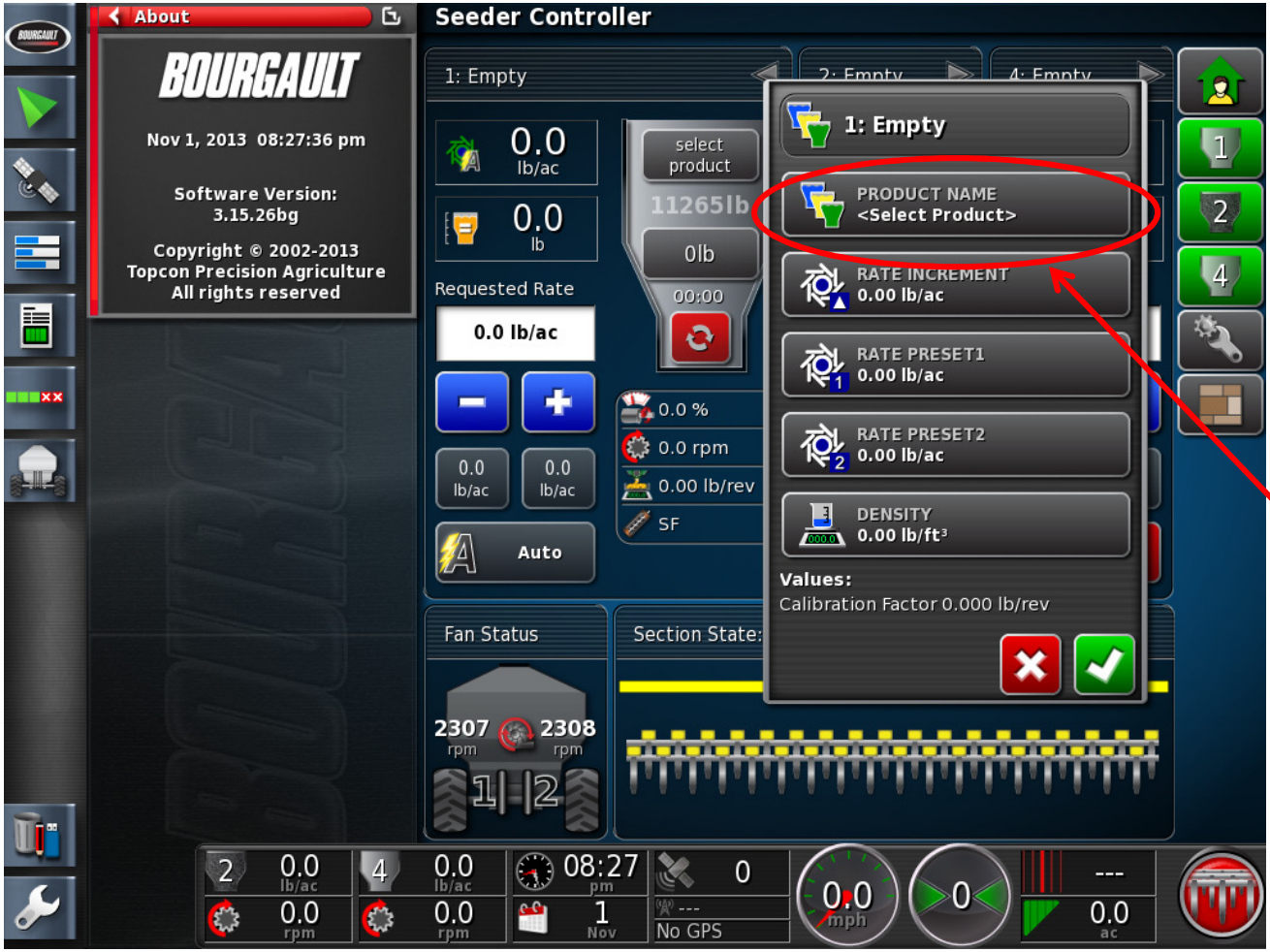


Drag the Seeder Controller tab to the main page.

Select the tanks to be tested on the right side then expand them one at a time to select the product to be seeded. We will use Wheat HR for our example.

Expand tanks by touching arrow

Touch Select Product



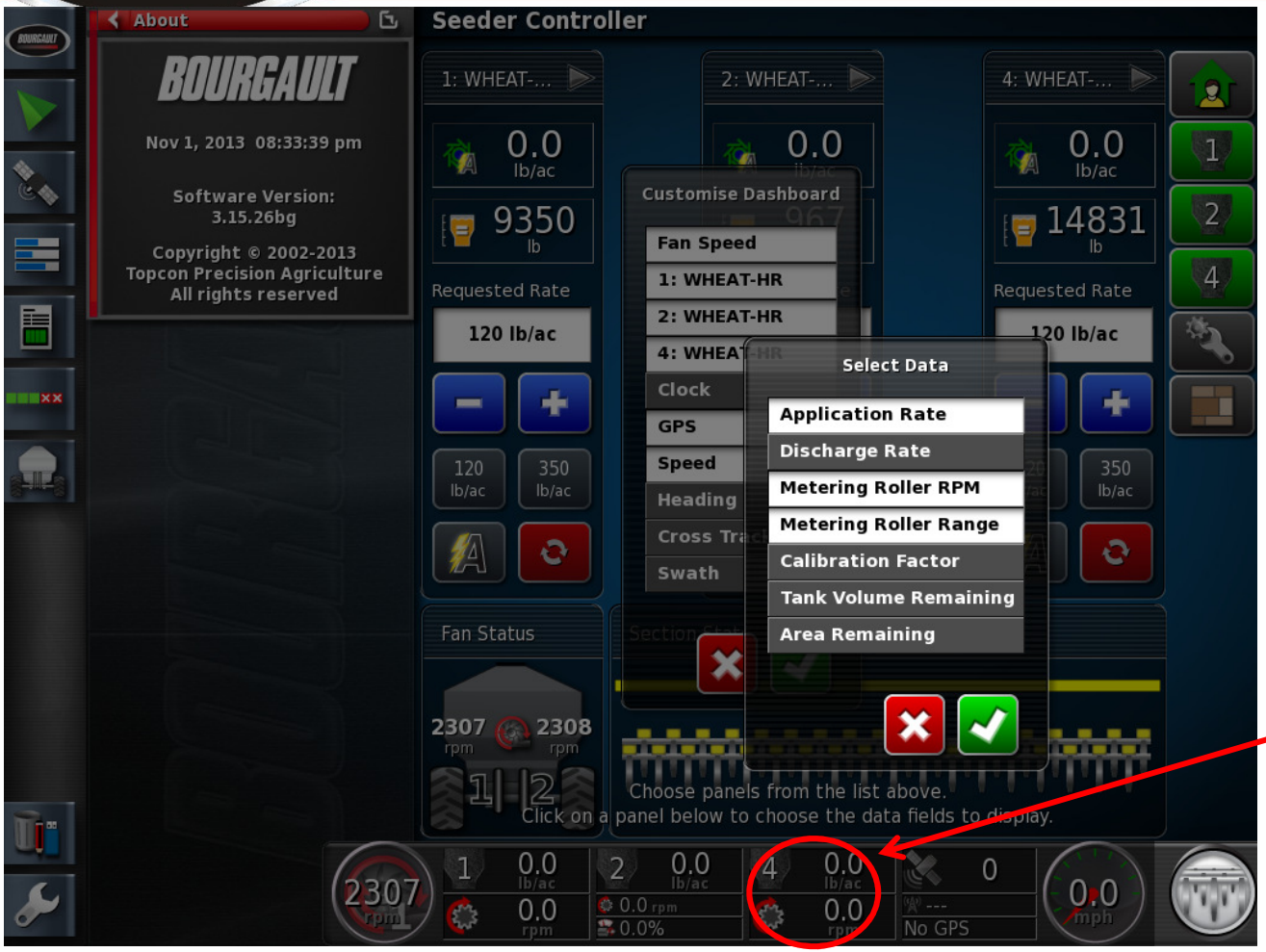
Touch PRODUCT NAME and select WHEAT-HR

Select Wheat-HR

Verify the Preset Rates and Increments.

The next pages outline the procedure to customize the dashboard. For testing the dashboard should be set up to display fan speeds and rpm for each metering auger.

Touch anywhere on the dashboard to customize the display



Example; touching Tank 4
Brings up another menu.

You can customize each part of the dashboard display by touching on each item when the main dashboard menu is displayed.

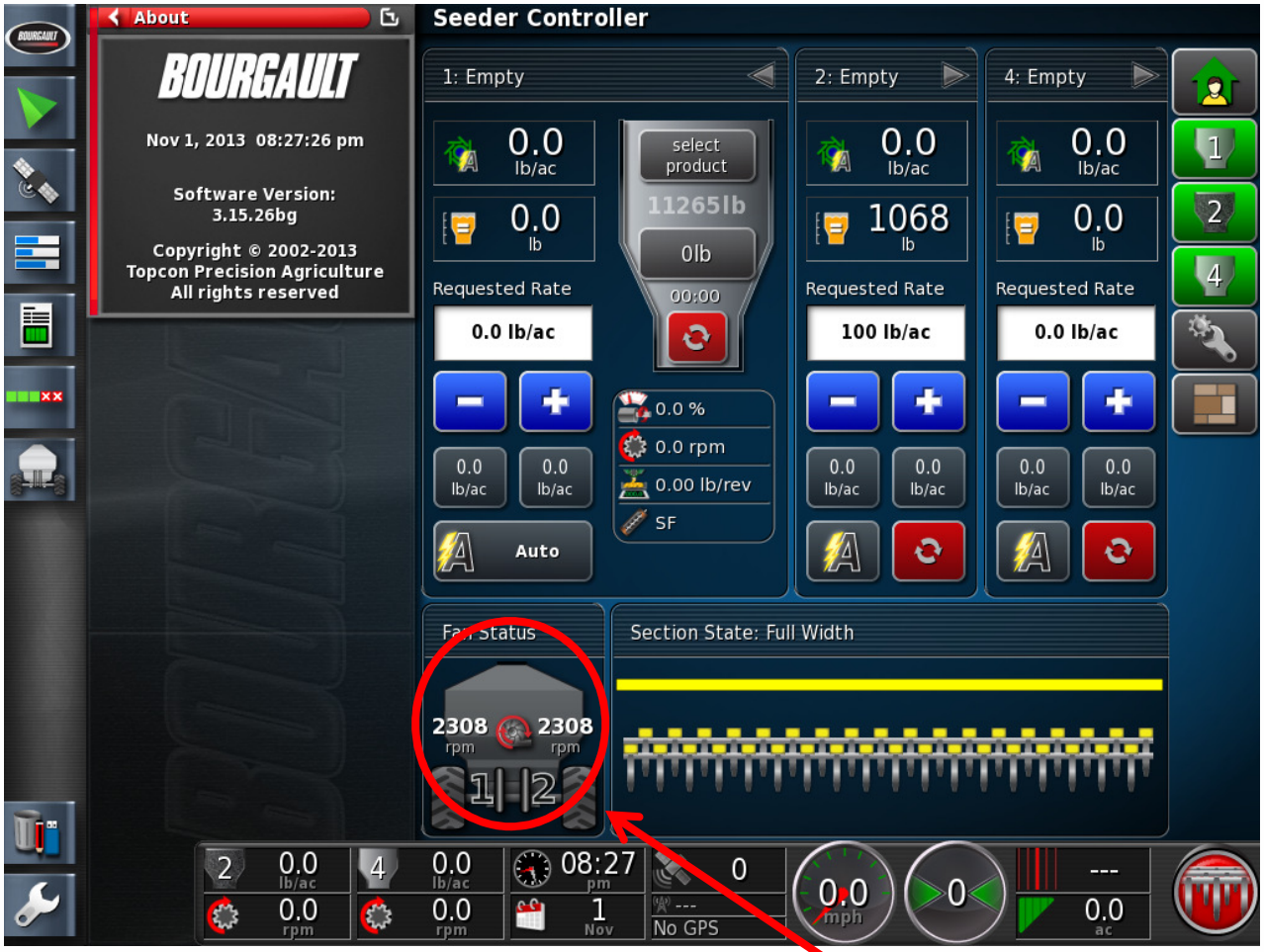
Touch on the wrench located on the right side of the screen to enter calibration.

Enter a MANUAL SPEED (use customers average seeding speed) then select MULTI-TANK CALIBRATION

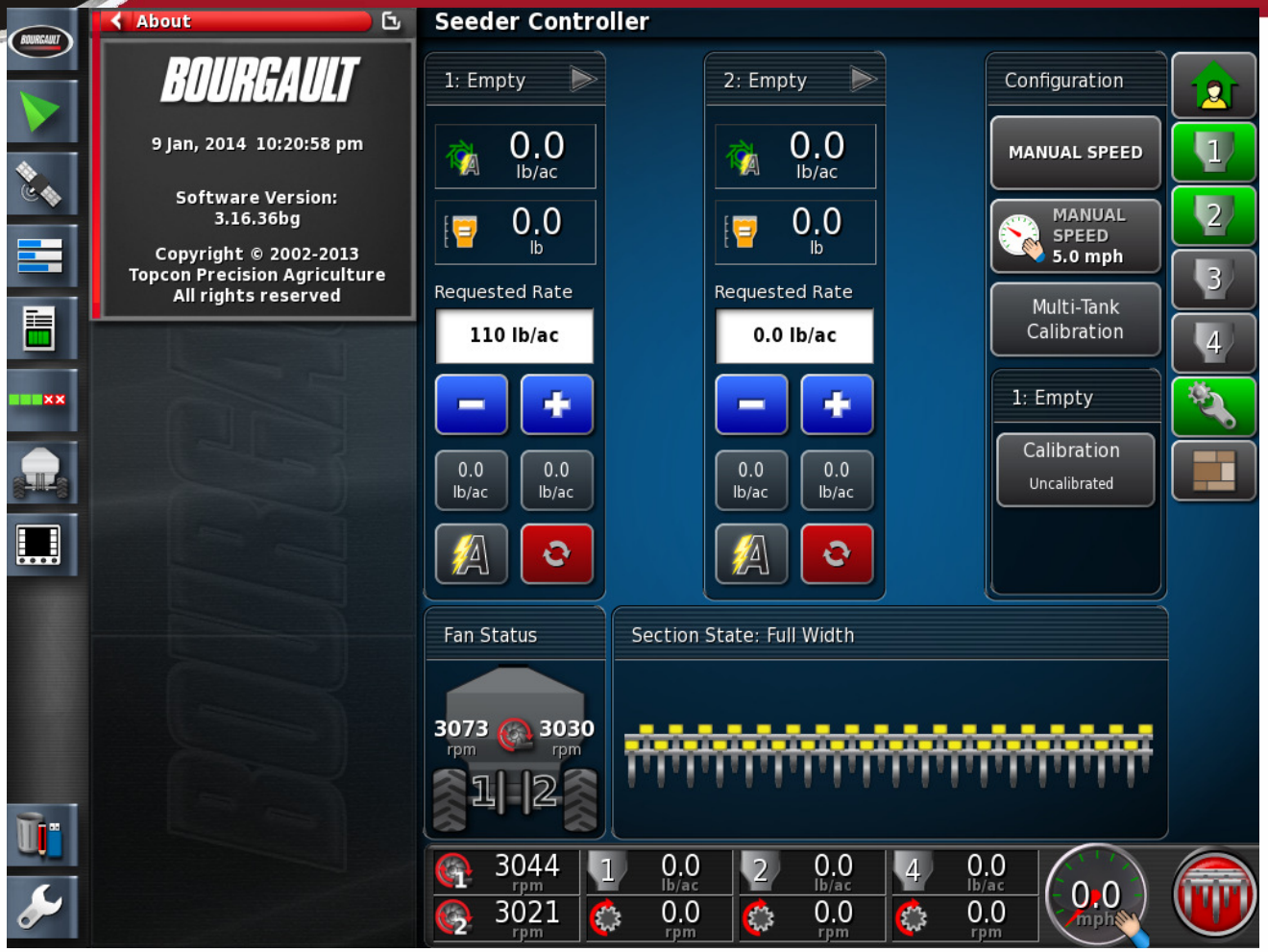
Select Automatic Calibration

Press the Yellow arrow

Turn on Tank clutches to be Calibrated



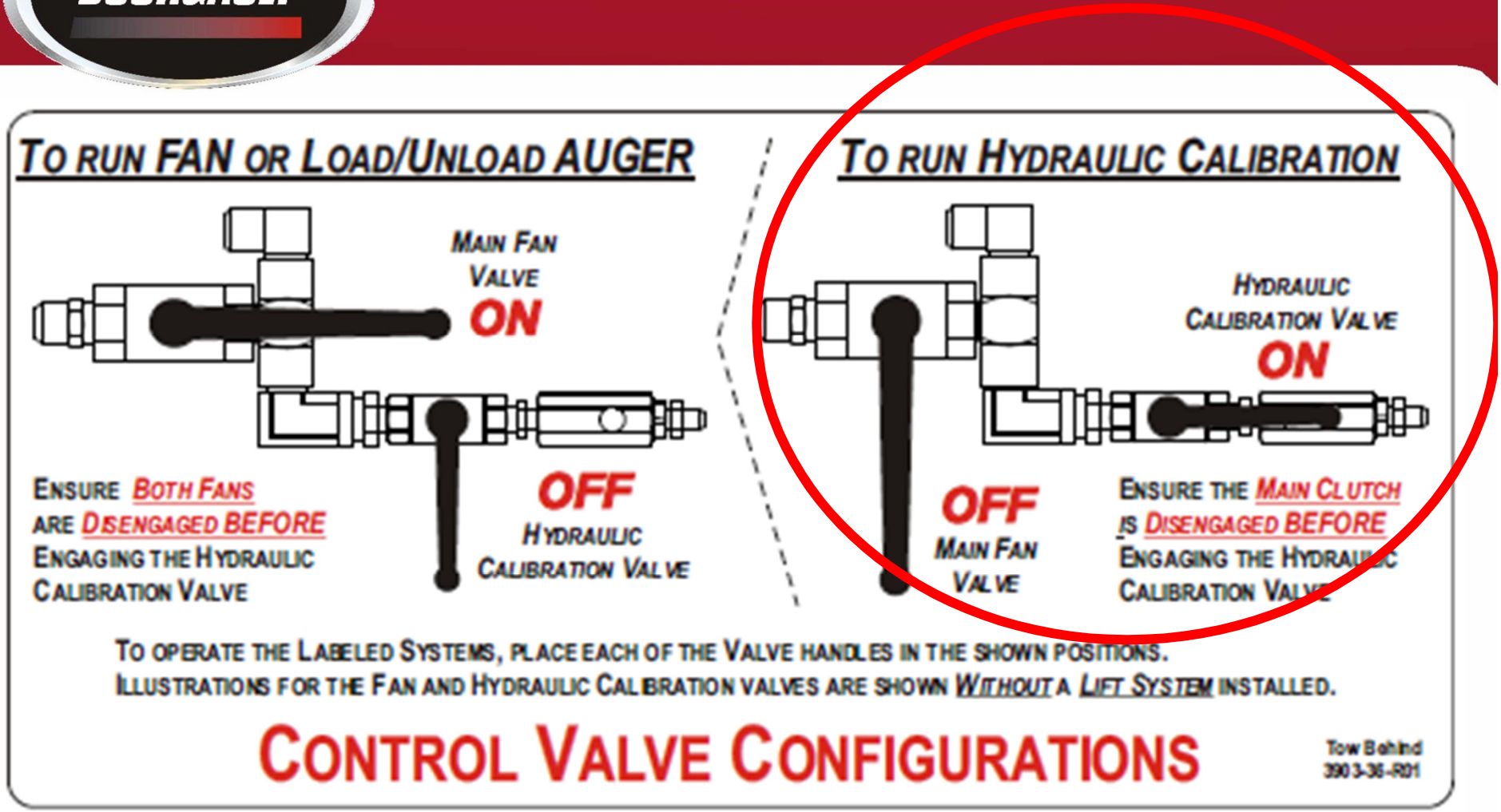
Engage fan hydraulics with tractor remotes and verify that fan speed is displaying.



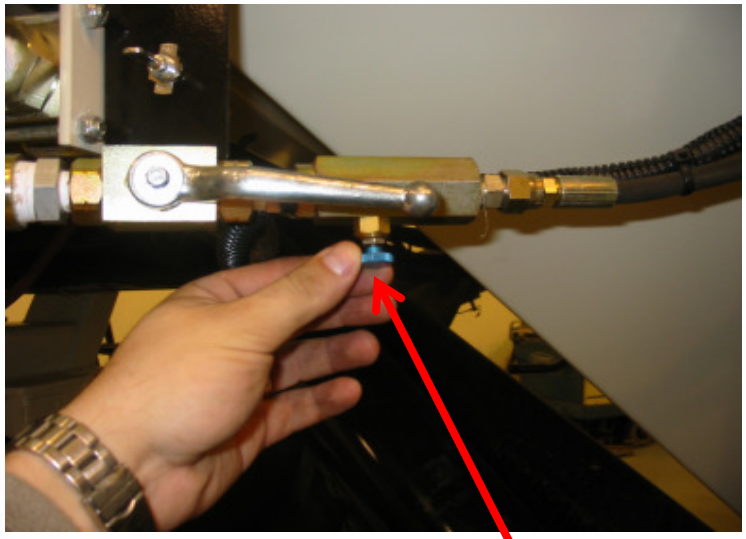
We would like the calibration drive to run the same speed as the Manual Speed that is set up for product calibration, you will need a second person in the cab to watch the ground speed display. For the example shown above the Manual Speed is 5mph

You will have to go into Setup to change your speed source from the seeder to adjust the calibration motor needle valve. Touch Implement / Seeder / Speed Source and select Wheel Sensor. Once completed change this back to Speed from GPS.

BOURGAULT



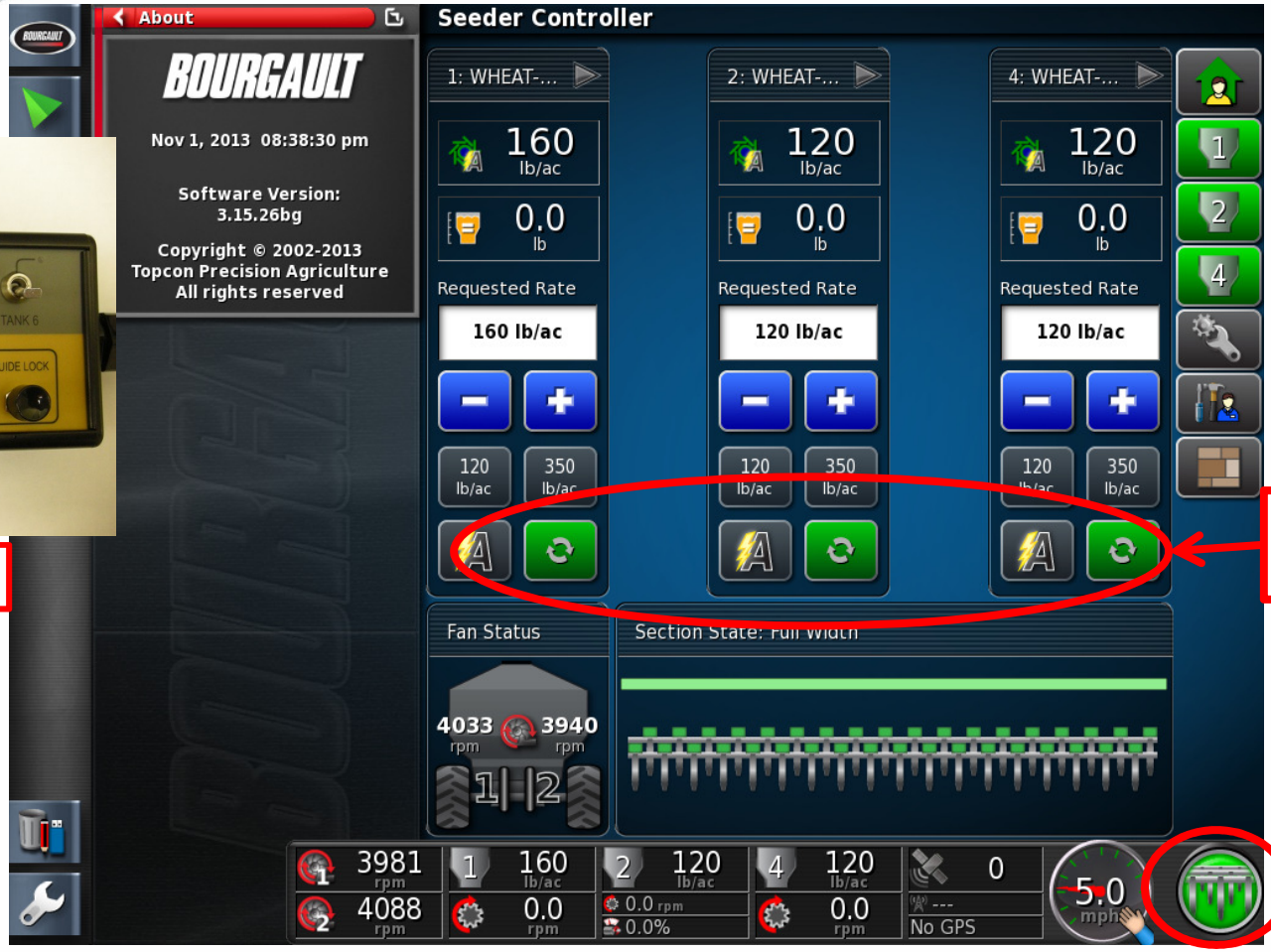
Close valves to fans and load/unload auger to divert oil to calibration circuit.



Open the calibration valve and adjust needle valve till the speed is close to the manual speed

Go to the X30 and enter Configuration screen by touching the RH wrench symbol and select MANUAL SPEED as the speed source.

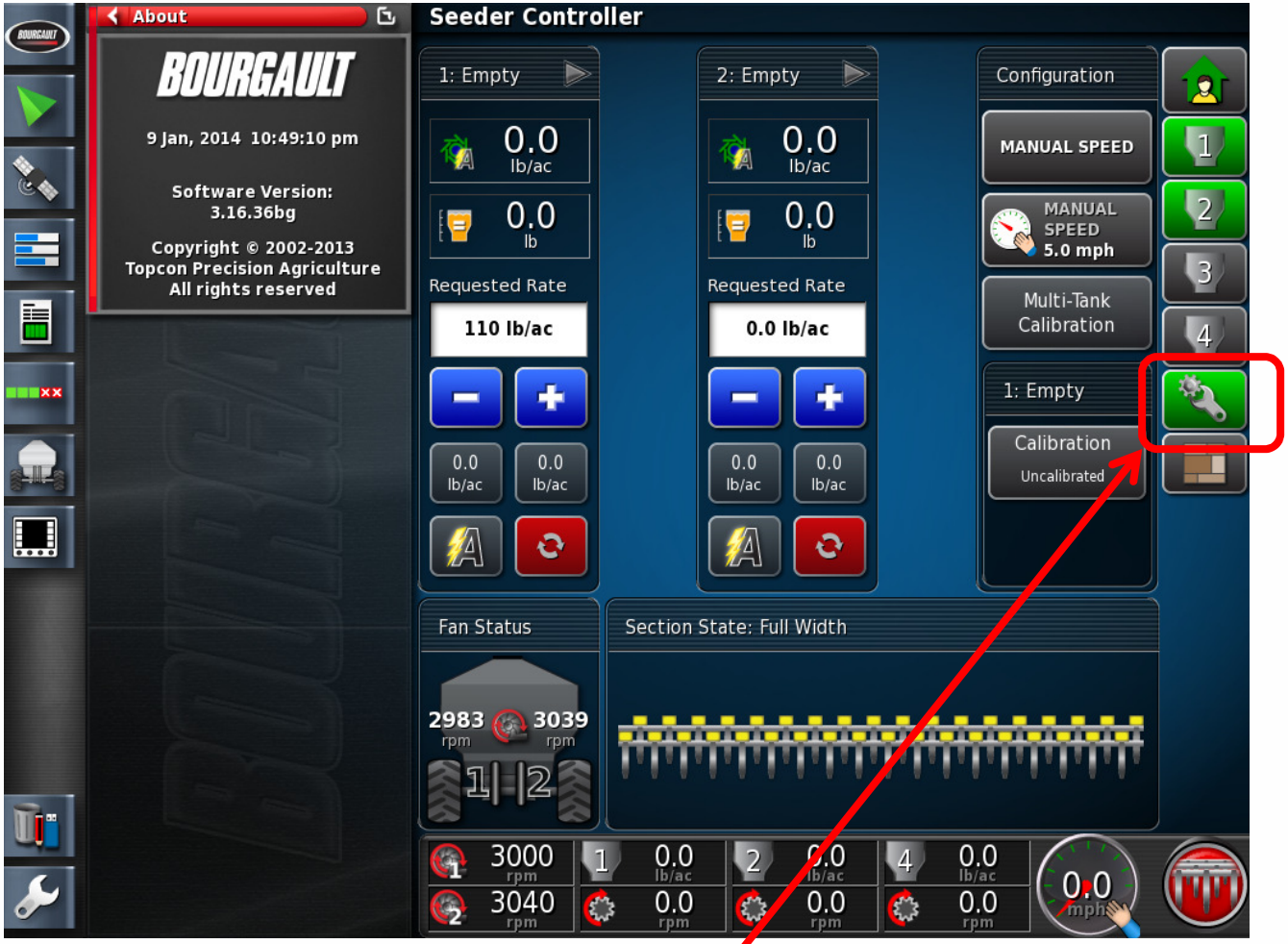
6 channel switchbox



TANK indicators

MASTER indicator

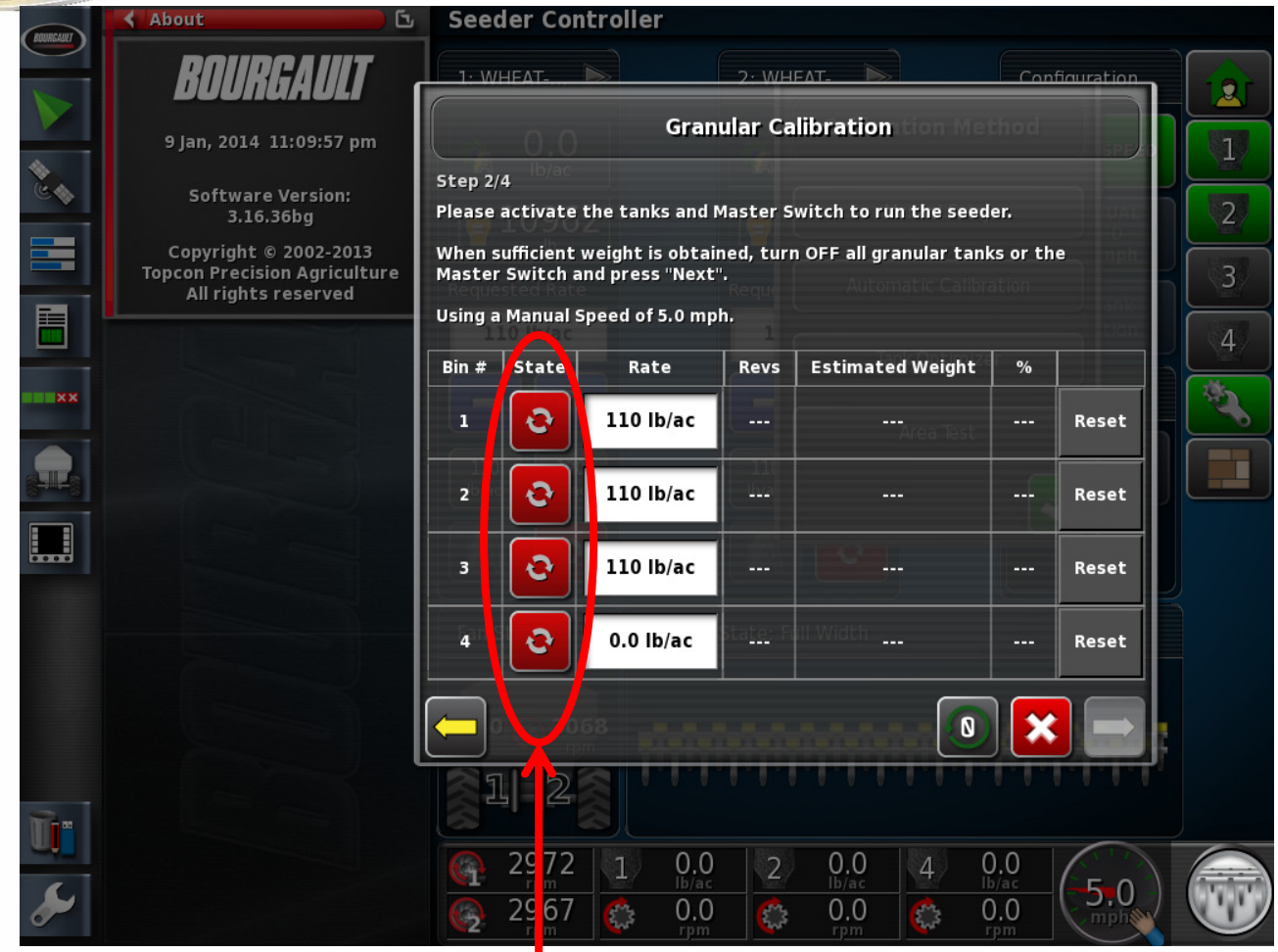
Cycle the Master and Tank switches using cabin 6 channel switchbox on and off one at a time to verify function.



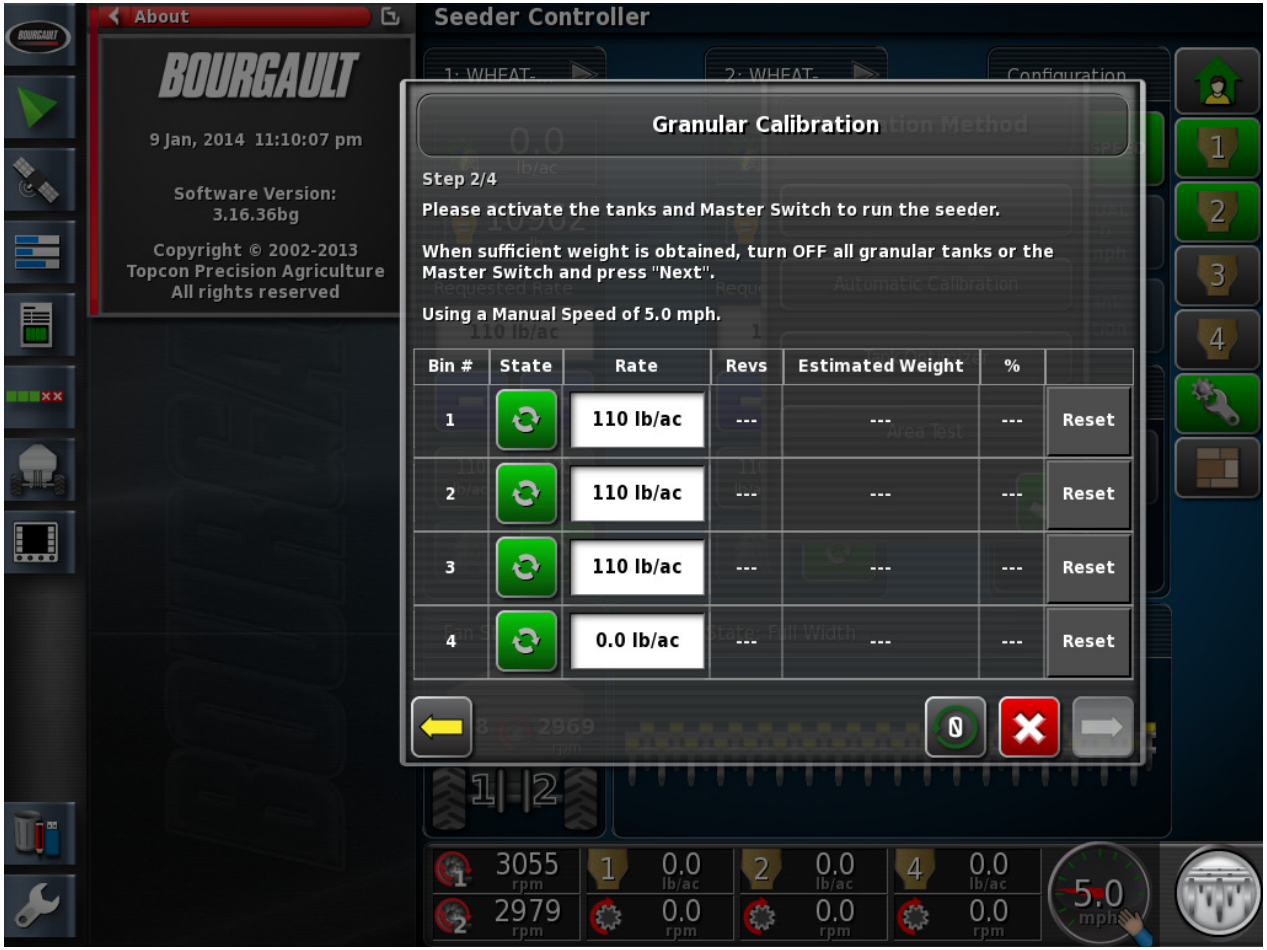
Enter Calibration by touching the wrench on the right side.

Select Automatic Calibration

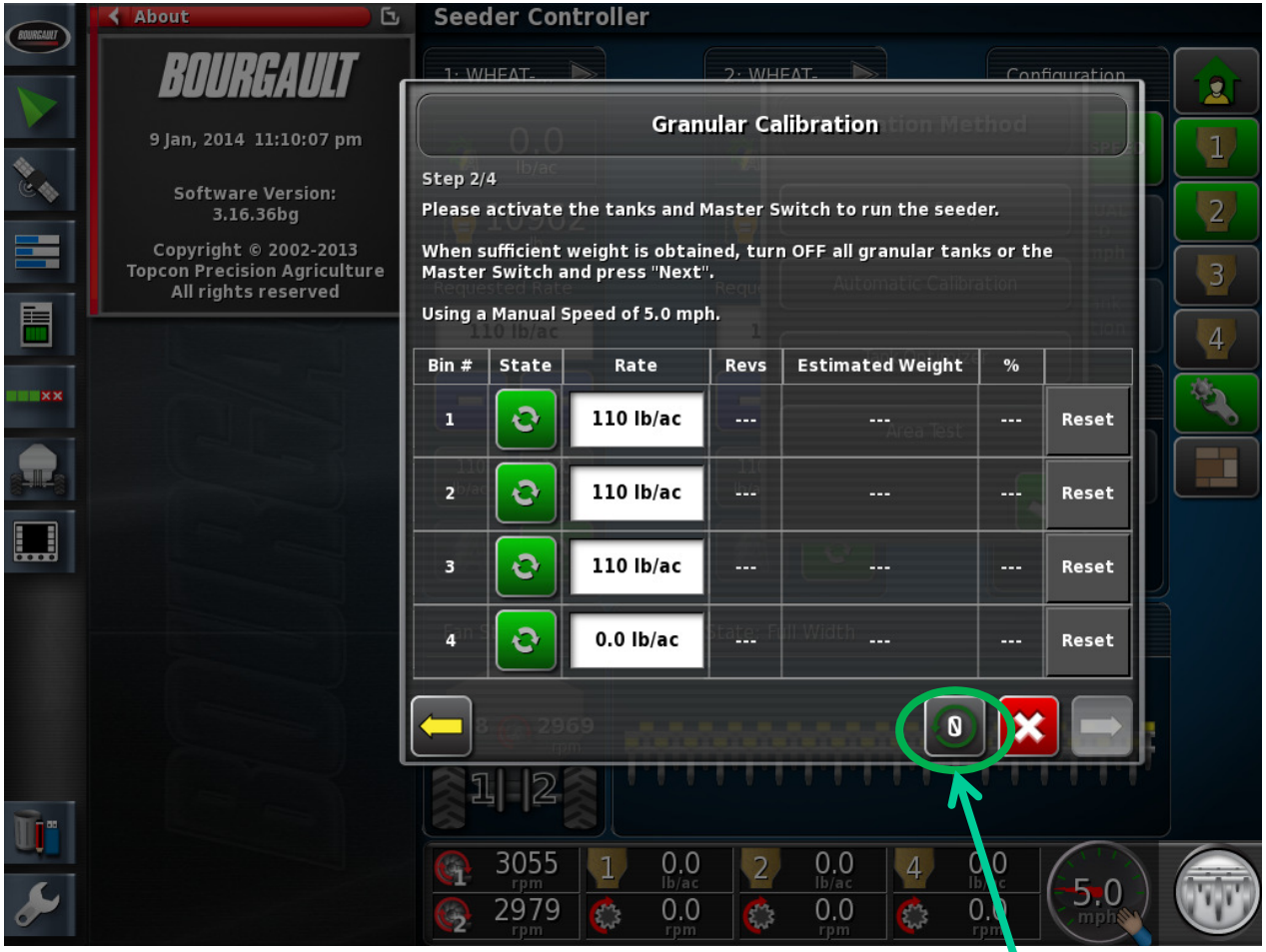
Press the yellow arrow to complete a Stationary Calibrations .



Select the tanks to be calibrated by touching the Red Icon under the State column. .



For this test select all of the tanks, the indicators will be green. You are ready to go back to the tank and run the calibration motor and all of the metering augers.



After the augers have run it will display Revs and an Estimated Weight. To reset the Revs and Estimated Weight touch the **green** icon.

See operators manual for step by step procedures to calibrate a 6000 series air-seeder.

You can also visit the Bourgault web site for a detailed calibration video.

- If the unit is equipped with NH3 or Liquid please see test procedure in the Service& Parts section of the Bourgault Web site under Frequently asked Questions.
- Run the load / unload auger to verify function of valves and motor.
- If equipped with cameras they should be hooked up and checked. (see ASA Camera Manual)
- If the unit is equipped with Blockage monitoring you will be required to be connected to the implement to complete a Detect and Assign Sensors.
- The final thing to verify is that GPS is coming into the X30 from the tractor receiver. (See Service and Parts section of the Bourgault Web Site under Frequently Asked Questions)
  http://www.bourgault.com/ServiceParts/FrequentlyAskedQuestions/FAQsX30SeederController/GPSSignal/tabid/597/language/en-US/Default.aspx