

Waterloo Implement Commercial Application Center

4730-4830-4930 Set Up Guide



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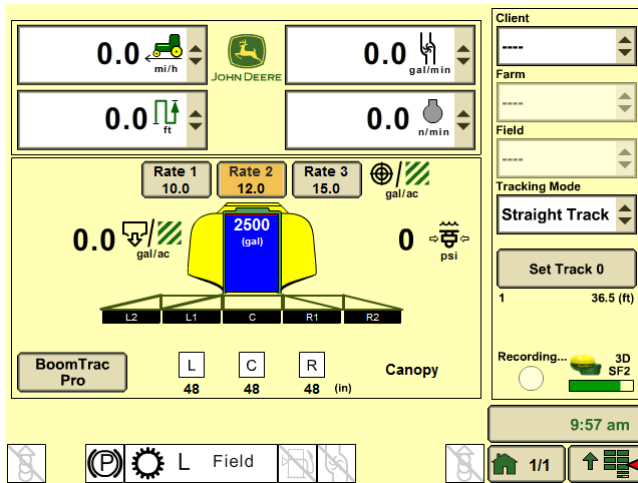
Jared Turner 319-239-6020 Matt Lampe 319-239-6010

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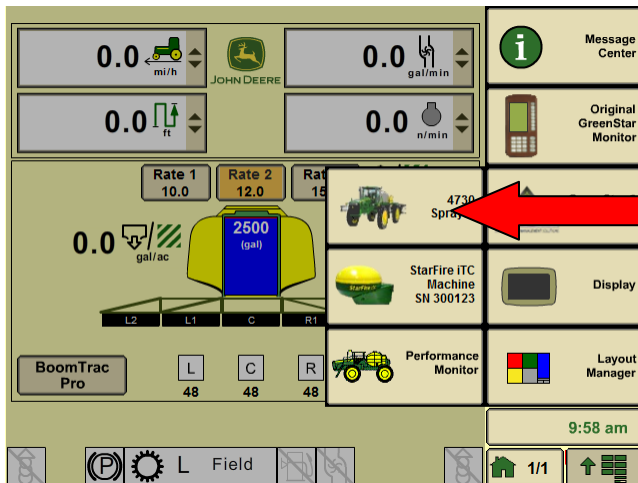
Table of Contents

-Initial Set Up	Page 1
-Nozzle Flow Check	Page 4
-Changing Spray Rates	Page 5
-BoomTrac Settings	Page 6
-Setting Up Documentation	Page 7
-Documenting Tank Mixes	Page 11
-Setting Up Coverage Map	Page 13
-Clearing Field Coverage	Page 14
-Changing Products in Documentation	Page 16
-Swath Control Pro Settings	Page 18
-Setting Up Boundaries	Page 20
-Setting Up AutoTrac	Page 22
-Setting Up StarFire Receiver	Page 25

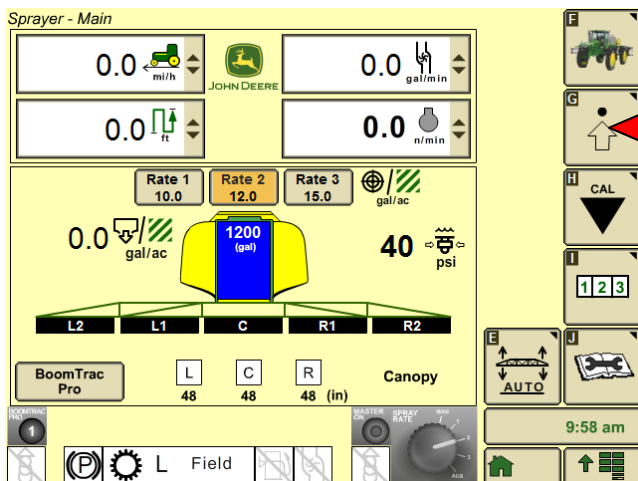
Setting up 4730-4830-4930 Sprayers



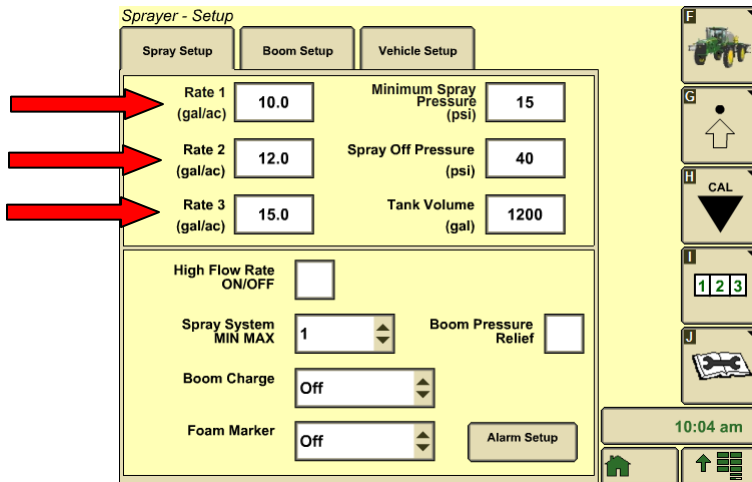
Touch the **MENU** button in the bottom right corner of the screen.



Touch the **SPRAYER** button. 4730-4830-4930 depending on your machine.



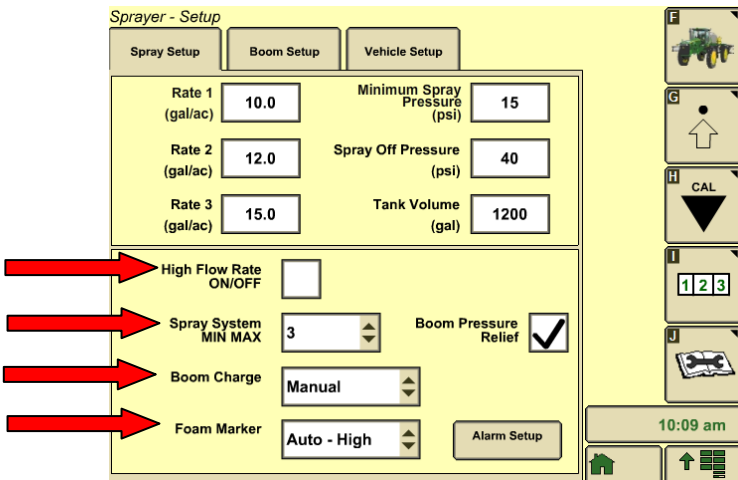
Touch the **G BUTTON (SET UP)**.



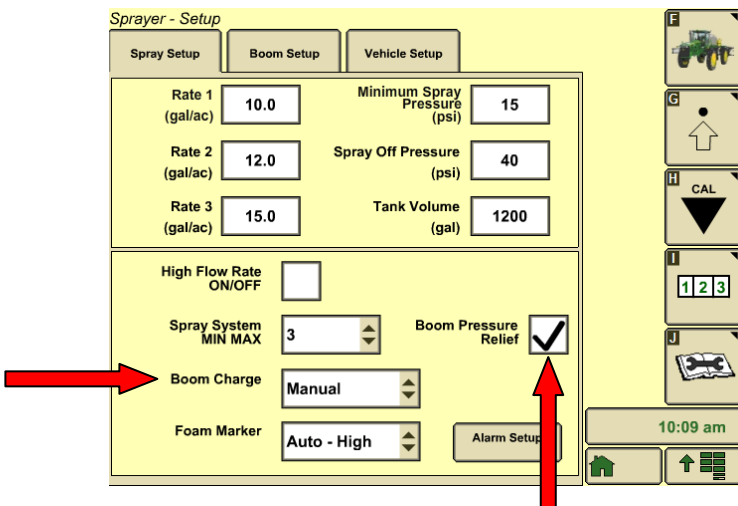
Set up your 3 predefined rates by filling out the Rate 1, Rate 2, and Rate 3 boxes.



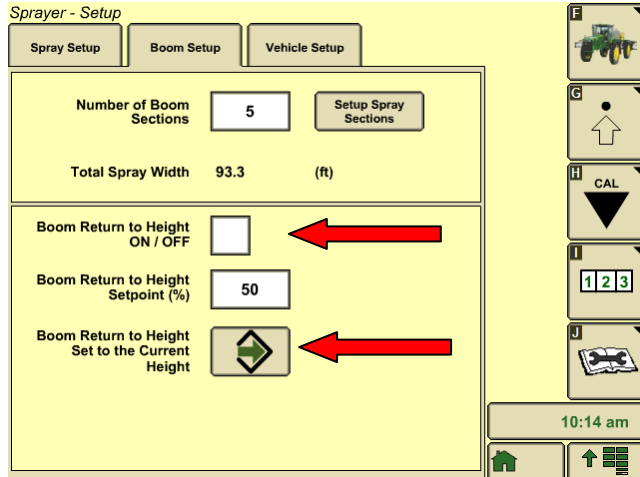
Turn **SPRAY RATE** knob (on right hand console) to what rate you would like to apply. Rate 1, Rate 2, Rate 3 or AUX to run a prescription.



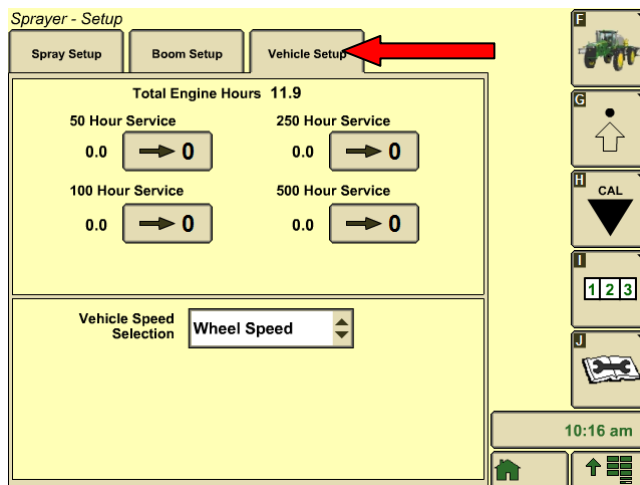
Check **HIGH FLOW RATE** on or off. If running a high rate with both flow meters in use then check the box to turn on high flow rate. Make sure to uncheck when you go back to using only one flow meter. Spray System **MIN/MAX** start at 3, this will adjust product pump response (if the number is too high the pump will begin to act erratic).



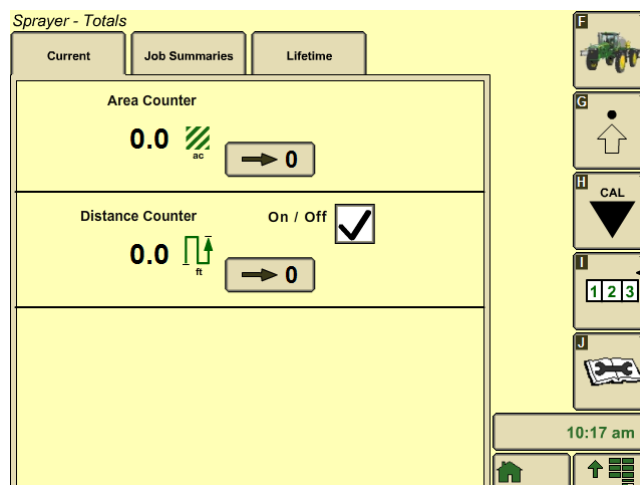
Set **BOOM CHARGE** to **MANUAL**. Turn your spray rate knob to **MANUAL**, then insert a manual pressure of 30 psi. Once you have set the manual pressure to 30 psi the system will then charge the boom to this pressure when the master spray switch is turned on or off. You only need to insert the manual pressure once and the system will save the pressure that was input. **BOOM PRESSURE RELIEF** allows the boom pressure to be relieved into the tank. With pump off and boom fully raised, press the master spray switch to relieve boom pressure (This does not work on machines with direct injection because of check valves that are in line).



Check the box if you would like to turn Boom Return to Height on. Once you get the boom in the position you would like it to return to touch the **SET TO THE CURRENT HEIGHT** button. This will allow the boom to return to that height every time it is lowered. Hold down the boom lower button until the boom stops, then lift your finger off button and then press down the button again to override boom return to height.

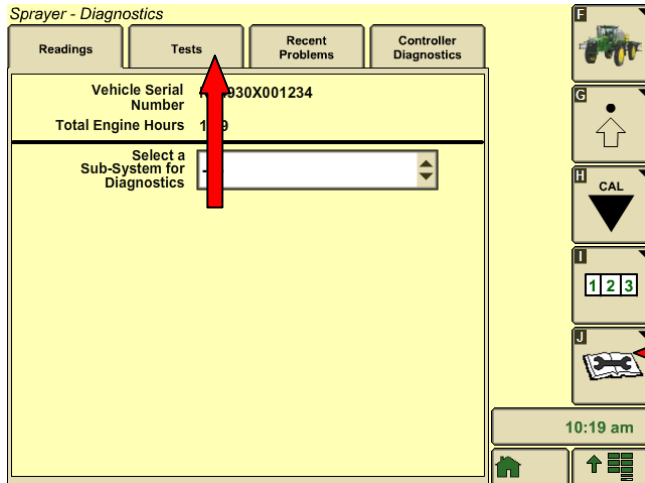


Touch the **VEHICLE SETUP** button across the top of the screen.

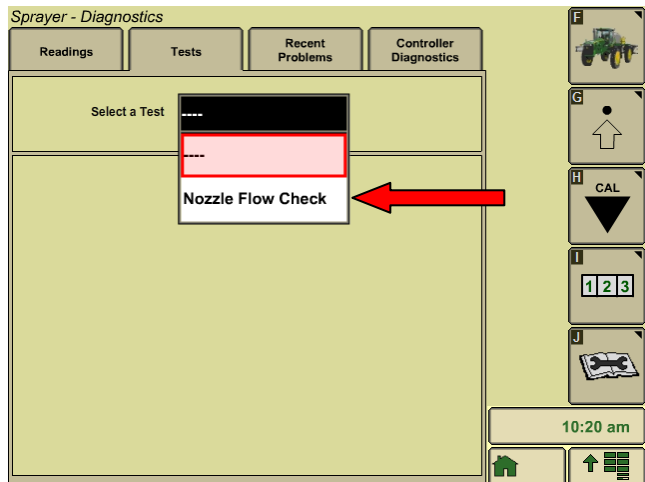


Touch the **I TAB (123)** to enter the totals page. This page can keep track of area and totals of certain jobs. You can use this if you are not utilizing documentation however, this information is not being saved to the data card. The best way to keep track of totals is by using the documentation on the display (See page 7 for documentation setup).

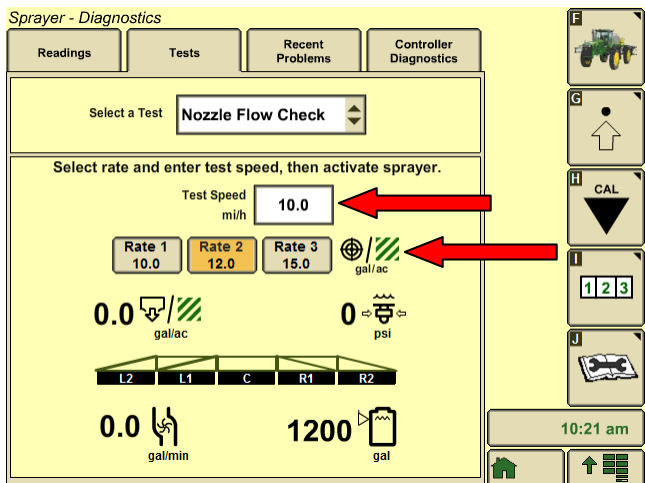
Nozzle Flow Check



Touch the **J TAB (BOOK AND WRENCH)** to enter the diagnostics page. Then touch the **TESTS** tab across the top of the page.

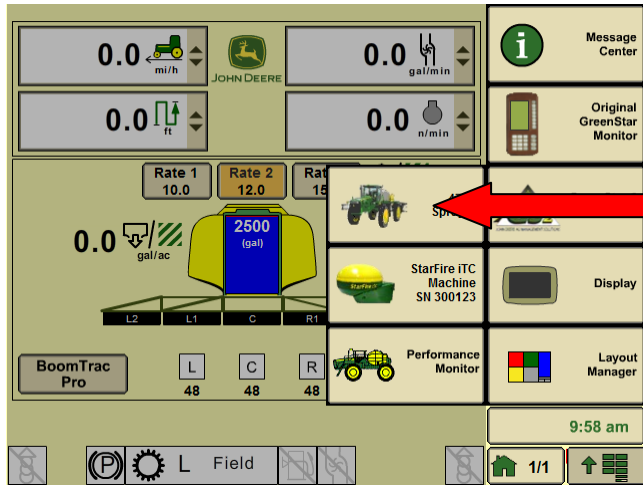


Under the drop down menu select **NOZZLE FLOW CHECK**.

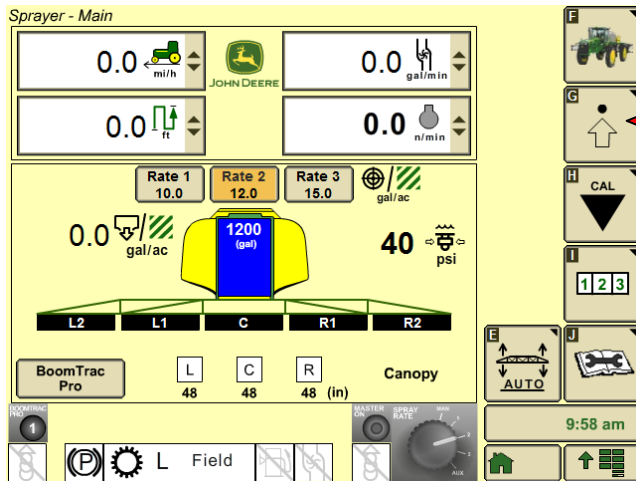


Insert a test speed and select one of the predefined rates that you would like to perform the test at.

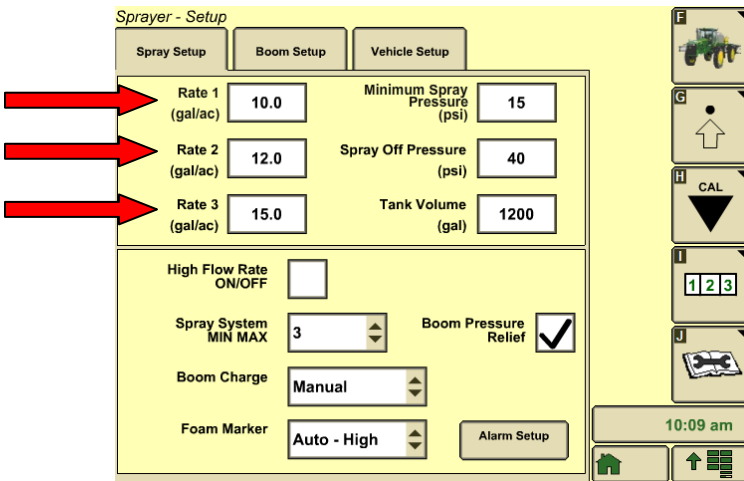
Changing Spray Rates



Touch the **SPRAYER** button. 4730-4830-4930 depending on your machine.



Touch the **G BUTTON (SET UP)**.

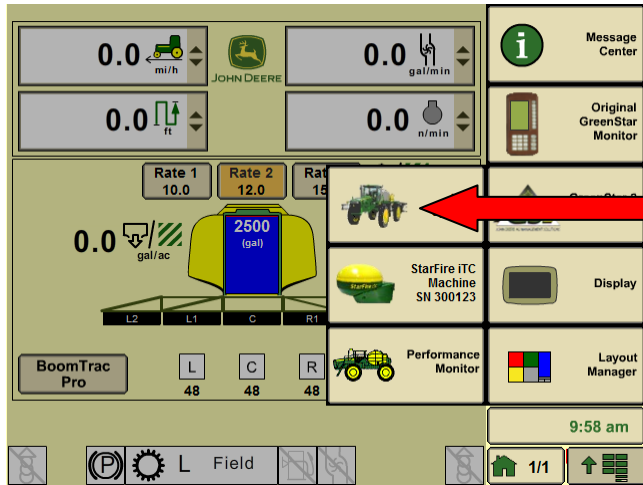


Set up your 3 predefined rates by filling out the Rate 1, Rate 2, and Rate 3 boxes.

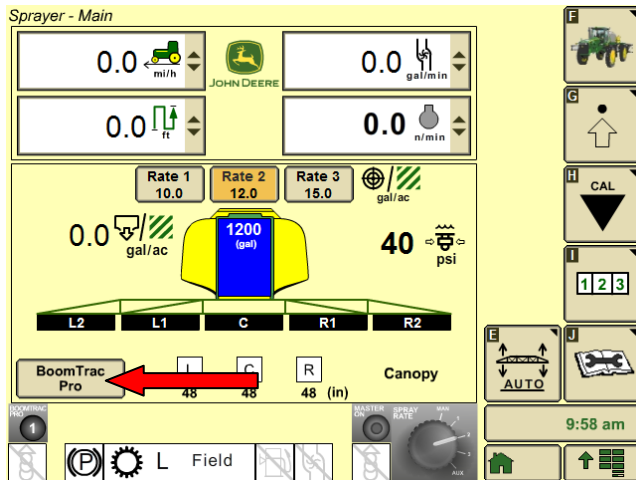


Turn **SPRAY RATE** knob (on right hand console) to what rate you would like to apply. Rate 1, Rate 2, Rate 3 or AUX to run a prescription.

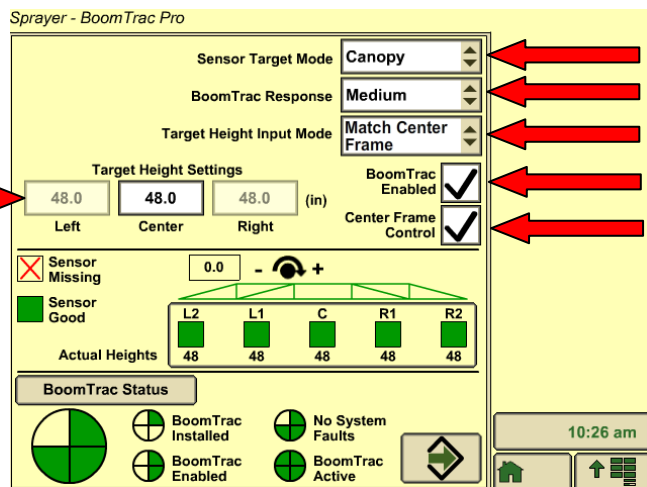
BoomTrac Settings



Touch the **SPRAYER** button. 4730-4830-4930 depending on your machine.

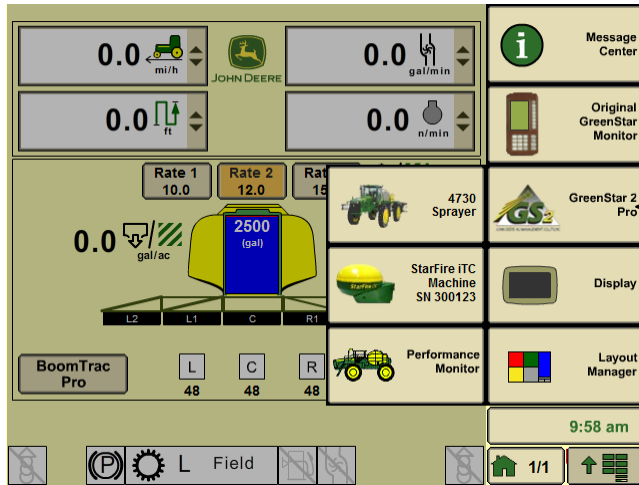


Touch the **BOOMTRAC PRO** button.

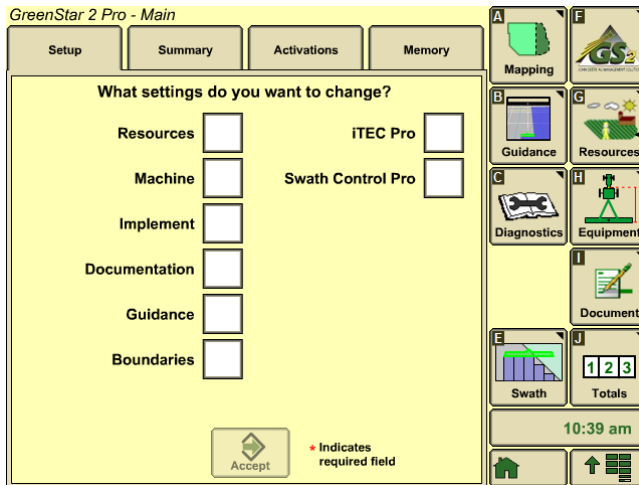


There are 2 sensor target modes: canopy uses the second object that it senses and ground uses the first object it senses. **BOOMTRAC RESPONSE**- Start with **MEDIUM** and adjust accordingly. Target Height Input Mode can either be set on **MATCH TO CENTER FRAME** or **INDIVIDUAL**. **BOOMTRAC ENABLED** has to be checked to allow BoomTrac to function. Check **CENTER FRAME CONTROL** to allow BoomTrac to control the center frame.

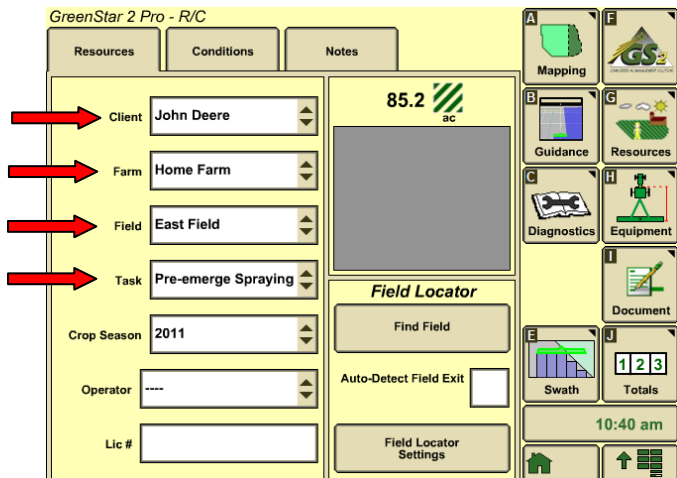
Setting Up Documentation



Touch the **GREENSTAR 2 PRO** BUTTON.

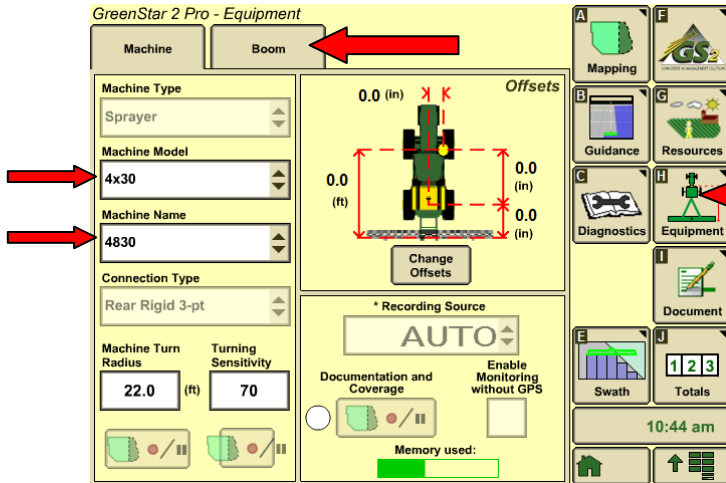


Touch the **G TAB (RESOURCES)**.

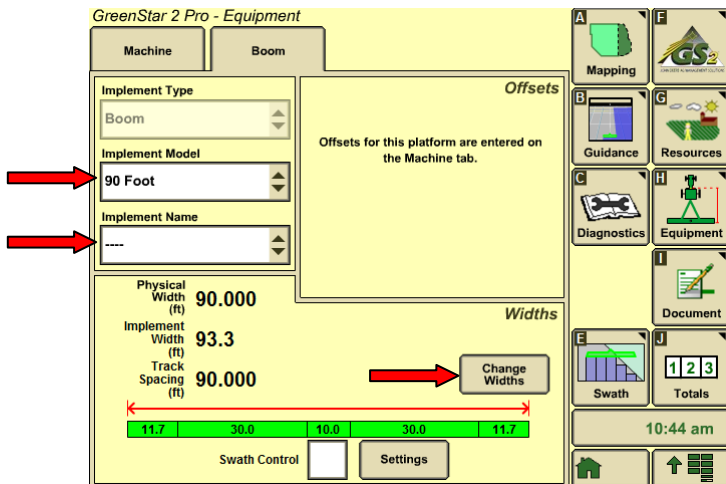


Fill out the **CLIENT, FARM AND FIELD** with the appropriate information to reflect the job you are doing. Under the drop down for **TASK** select either **PRE-EMERGE SPRAYING** or **POST-EMERGE SPRAYING**.

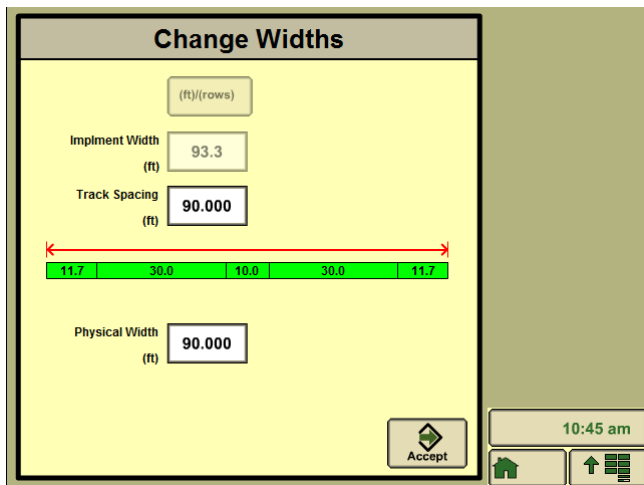
Waterloo Implement Commercial Application Center



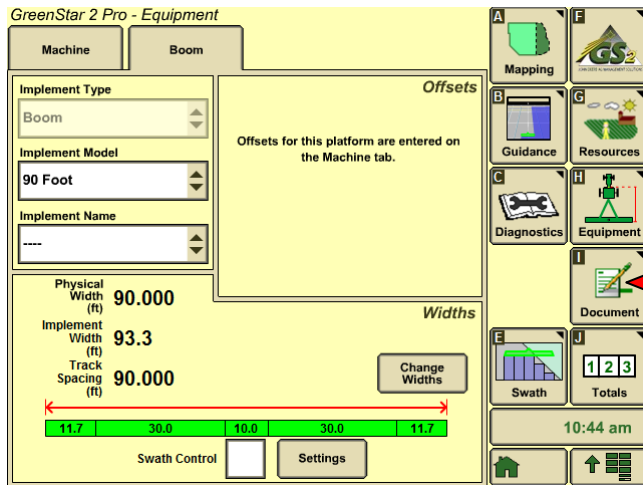
Touch the **H TAB (EQUIPMENT)**. Fill out the **MACHINE MODEL** and **MACHINE NAME** with the appropriate information for the machine. Touch the **BOOM TAB** across the top of the screen.



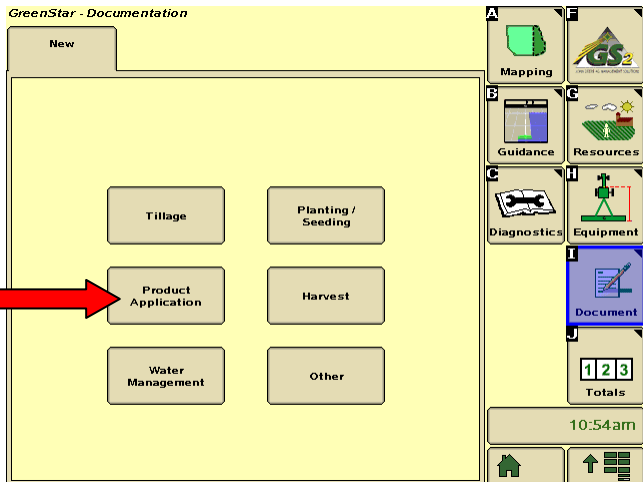
Fill out the **IMPLEMENT MODEL** and **IMPLEMENT NAME** with the appropriate information. Touch the **CHANGE WIDTHS** button.



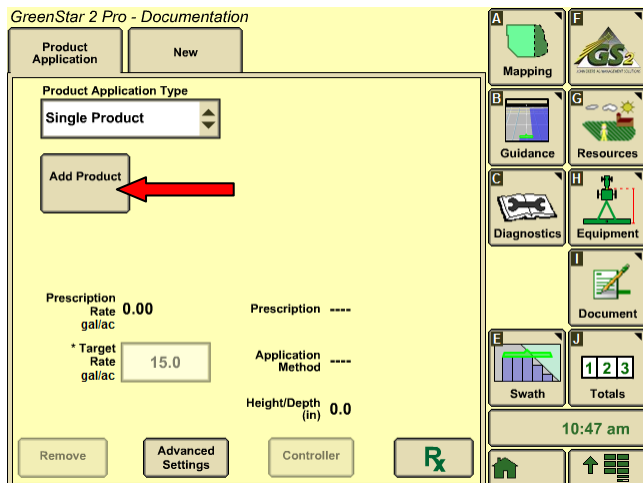
Fill out the **TRACK SPACING** and **PHYSICAL WIDTH** boxes with the appropriate measurements.



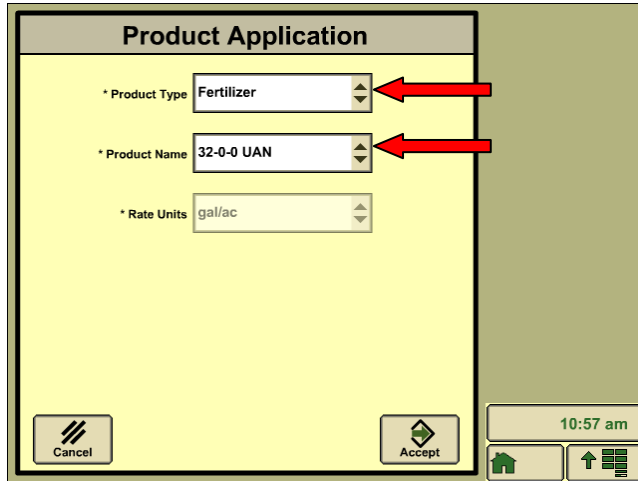
Touch the I TAB (DOCUMENT)



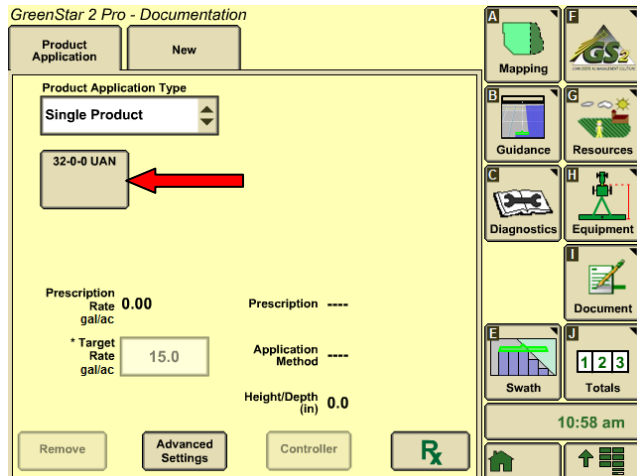
Select **PRODUCT APPLICATION** as the task to be documented.



To add a single product, touch the **ADD PRODUCT** button. (For information on documenting tank mixes see page 11)

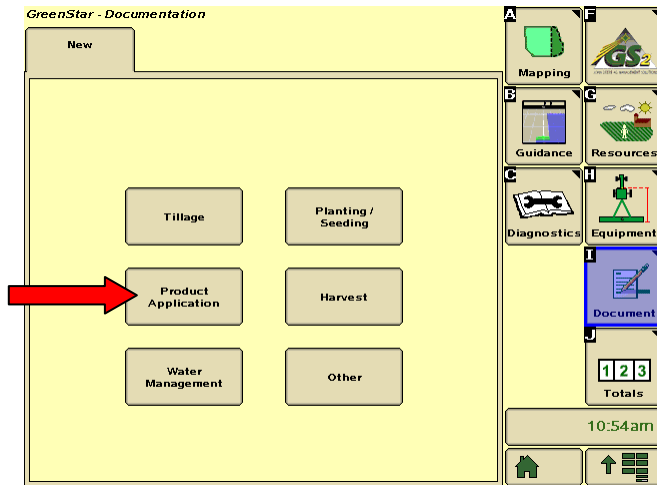


Select the **PRODUCT TYPE** and **PRODUCT NAME** from the list given. If the product name is not in the drop down then select new and type in the name of the product you are applying.

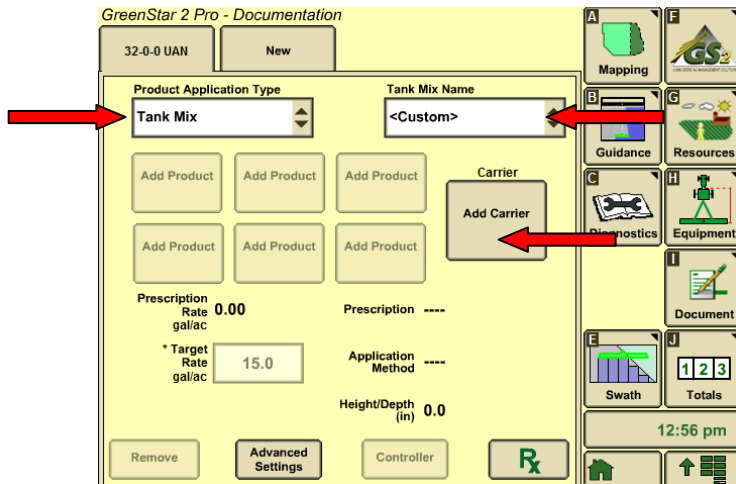


Once you have added the product you can see it is labeled with the product you selected. To change products just simply touch the box that is label with the product name and make the necessary changes.

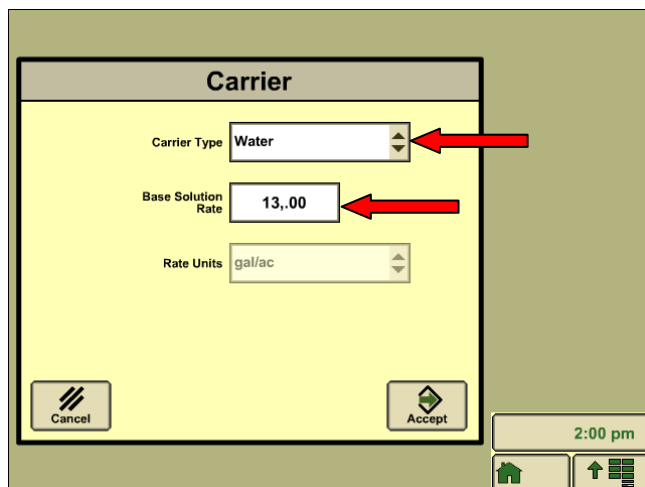
Documenting Tank Mixes



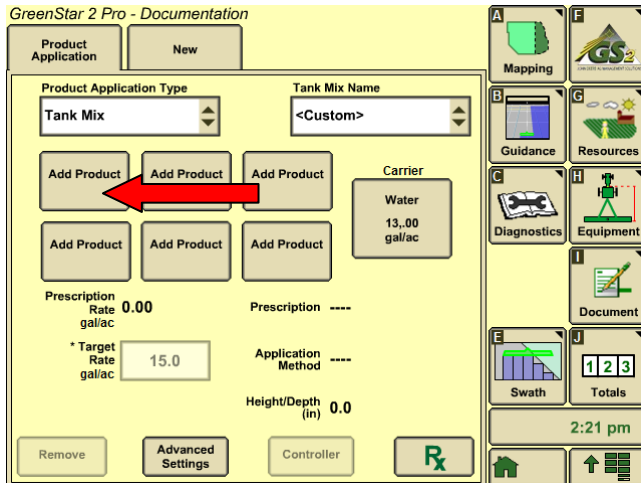
Select **PRODUCT APPLICATION** as the task to be documented.



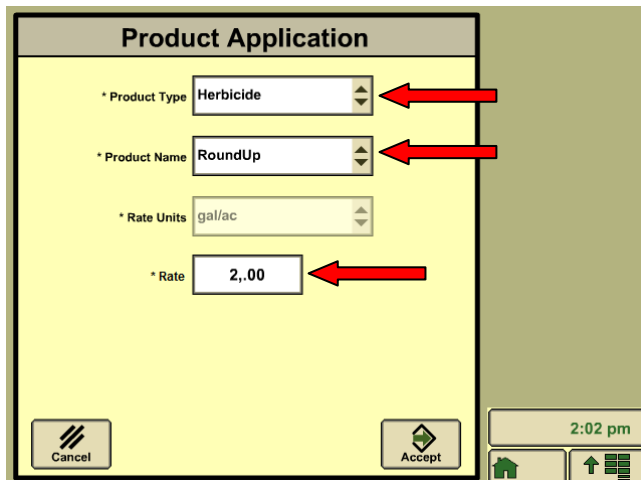
Under **PRODUCT APPLICATION TYPE** select **TANK MIX** and under **TANK MIX NAME** select **<Custom>**. Touch the **ADD CARRIER** button. NOTE: YOU MUST ADD A CARRIER BEFORE YOU CAN ADD A PRODUCT.



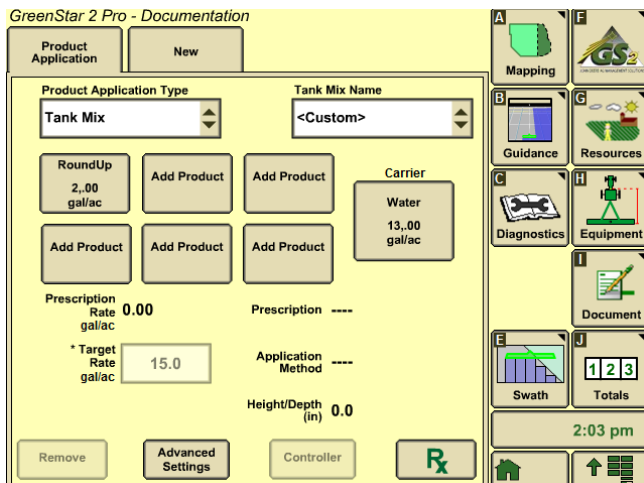
Select your **CARRIER TYPE** and fill in your **BASE SOLUTION RATE**. Base solution rate is the rate per acre minus the units per acre. Example- If your target rate is 15 gal/ac and your tank is mixed with 2 gal/ac of chemical then your base solution rate is 13 gal/ac. $15(\text{Target Rate}) - 2(\text{Chemical}) = 13$



Select **ADD PRODUCT** to add a product to your tank mix.

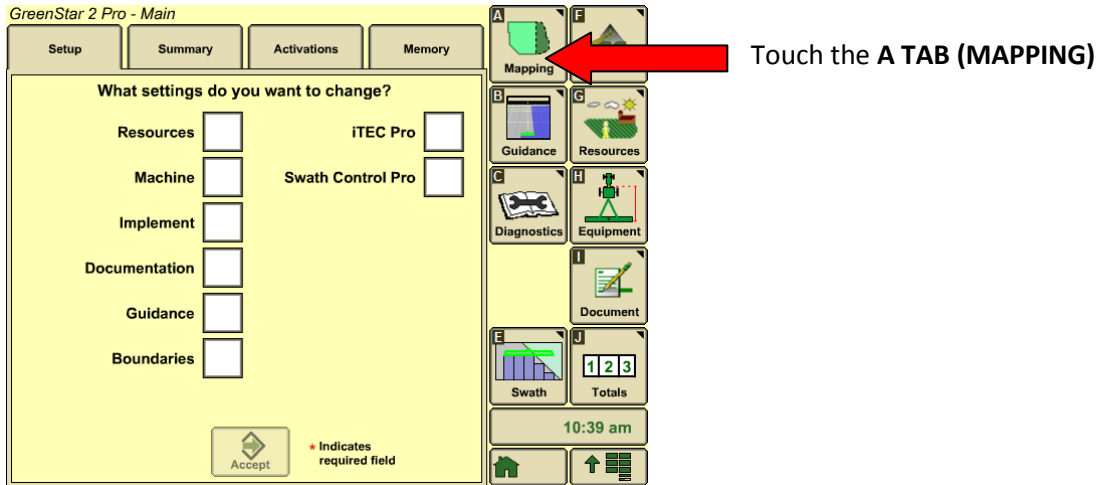


Select a **PRODUCT TYPE**, **PRODUCT NAME**, **AND RATE** from the drop down menus.

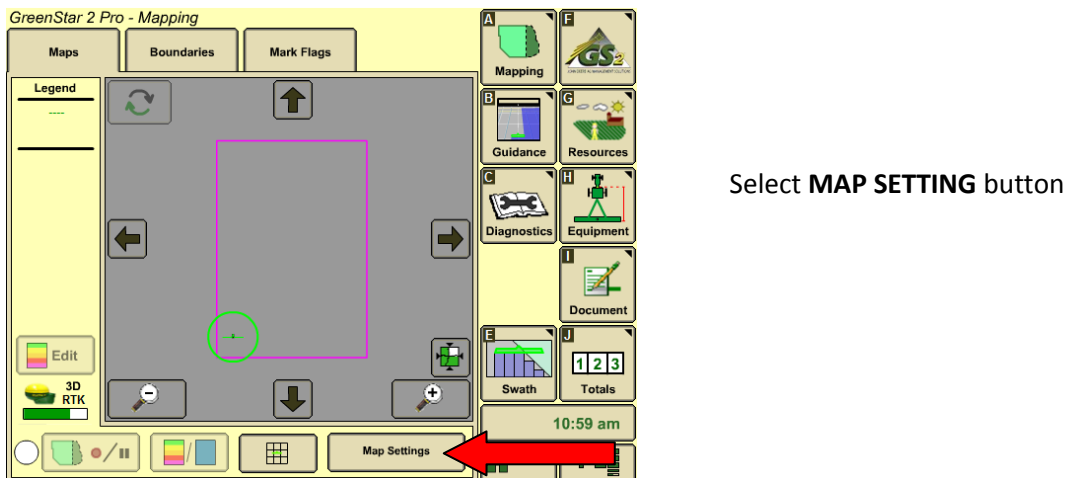


Select **ADD PRODUCT** and repeat previous step to add more products to the tank mix.

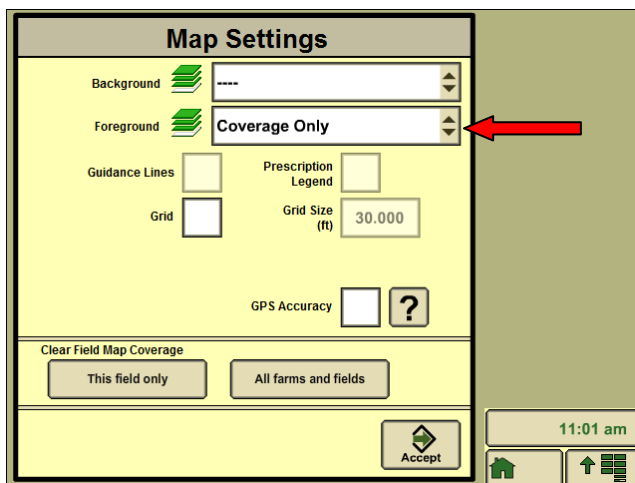
Setting Up Coverage Map



Touch the A TAB (MAPPING)

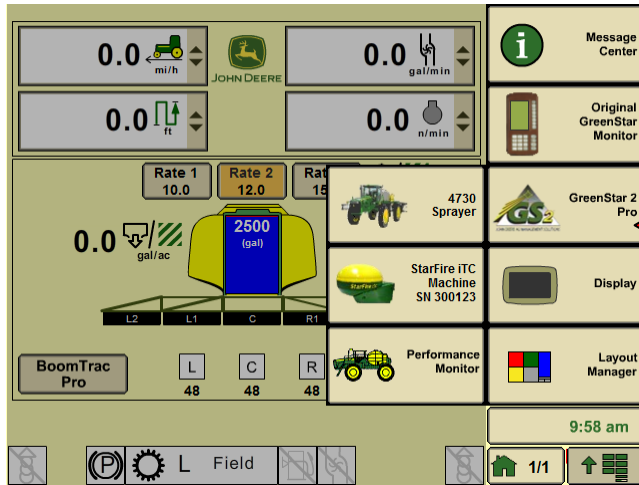


Select MAP SETTING button

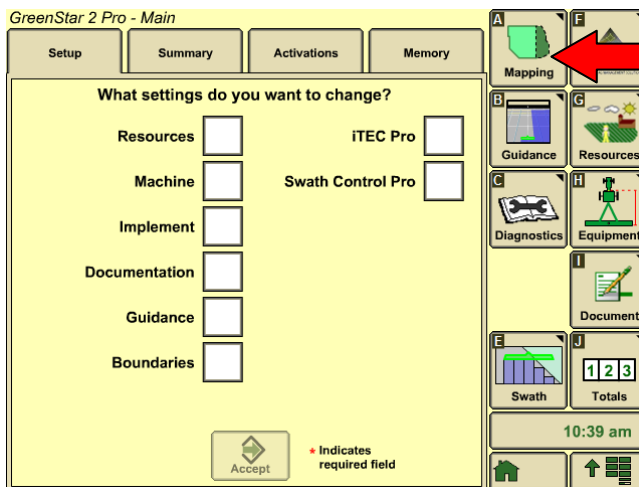


Select **COVERAGE ONLY** from the **FOREGROUND** drop down menu.

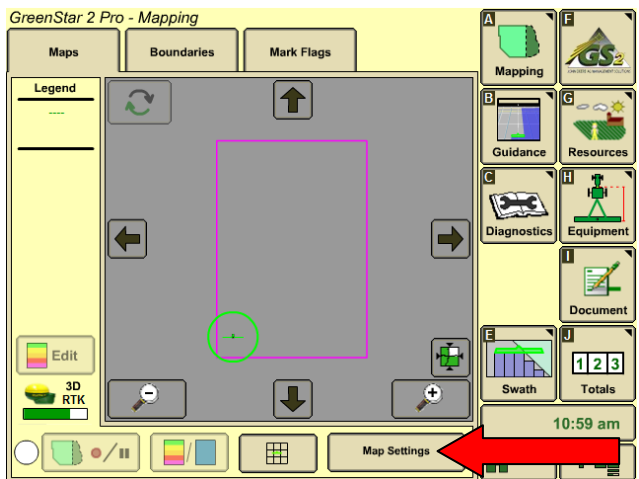
Clearing Field Coverage



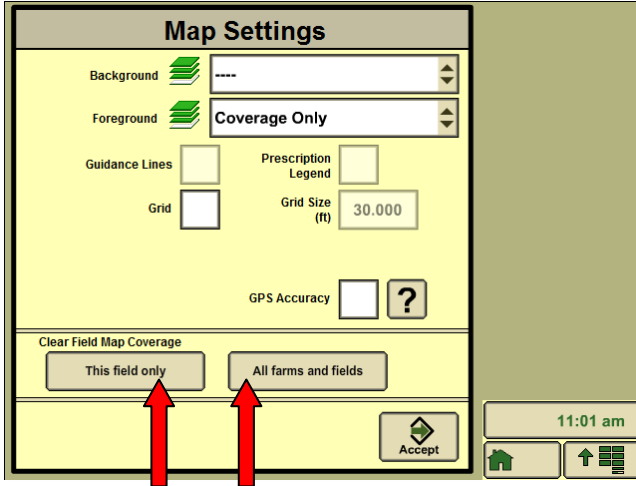
Touch the **GREENSTAR 2 PRO** BUTTON.



Touch the **A TAB (MAPPING)**

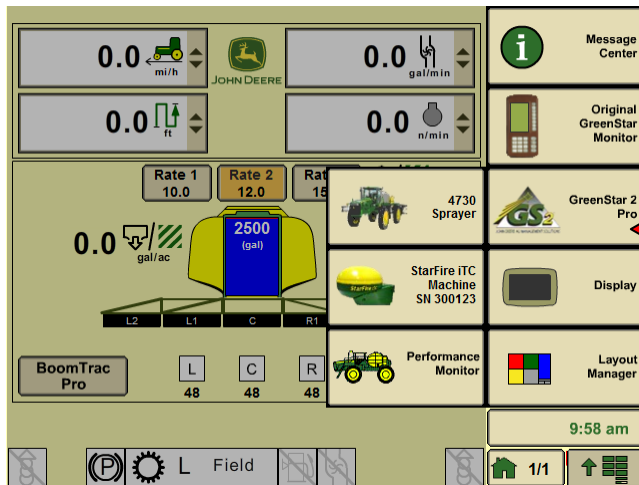


Select **MAP SETTING** button

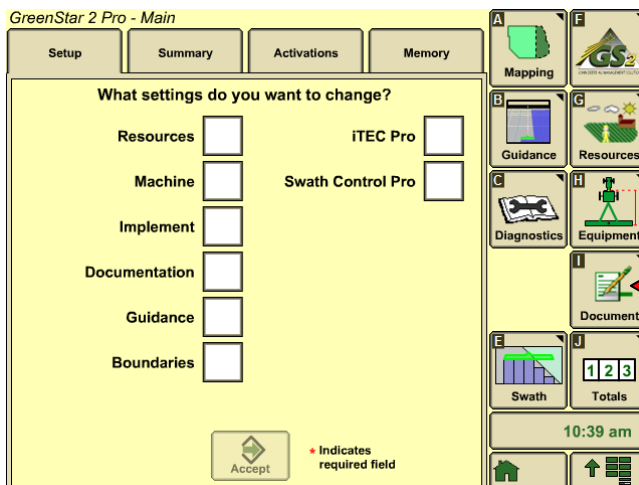


There are two ways you can clear a coverage map, either for this field only or for all farms and fields. If you have already sprayed a field once and you are going to do the second pass, you must clear the coverage map otherwise Swath Control Pro will not function properly.

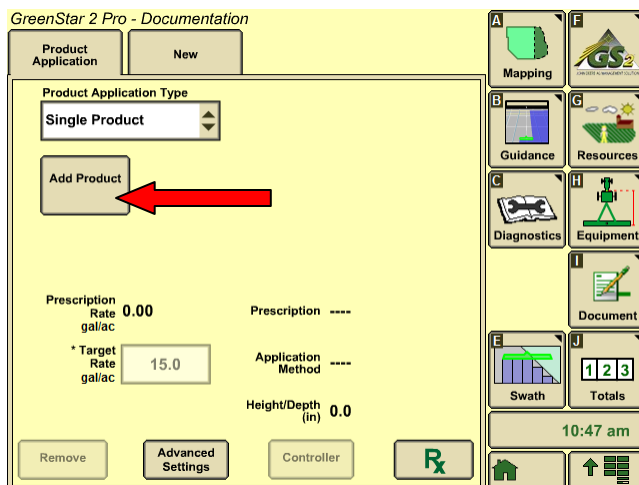
Changing Products in Documentation



Touch the **GREENSTAR 2 PRO** BUTTON.



Touch the **I TAB (DOCUMENT)**



To add a single product, touch the **ADD PRODUCT** button.

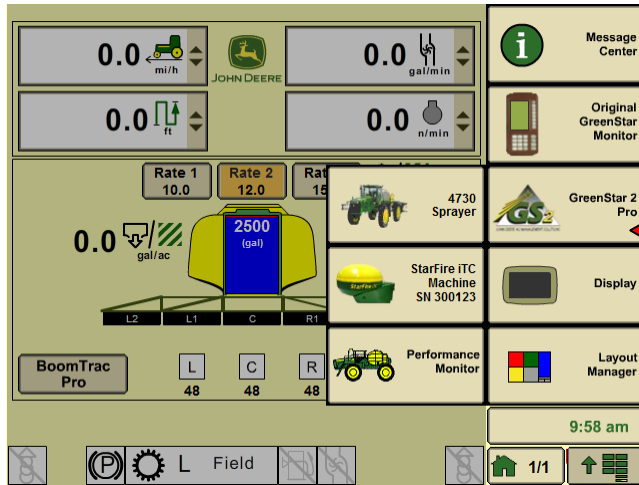
The screenshot shows a 'Product Application' form with the following fields:

- * Product Type: Fertilizer
- * Product Name: 32-0-0 UAN
- * Rate Units: gal/ac

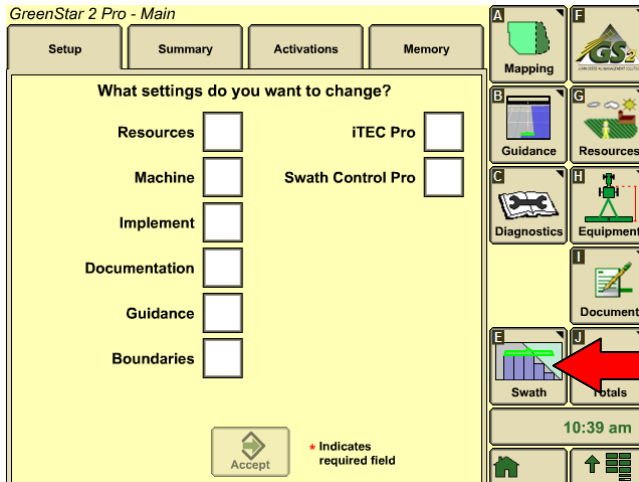
Navigation and status elements at the bottom include: Cancel, Accept, 10:57 am, Home, and List View icons.

Select the **PRODUCT TYPE** and **PRODUCT NAME** from the list given. If the product name is not in the drop down then select new and type in the name of the product you are applying.

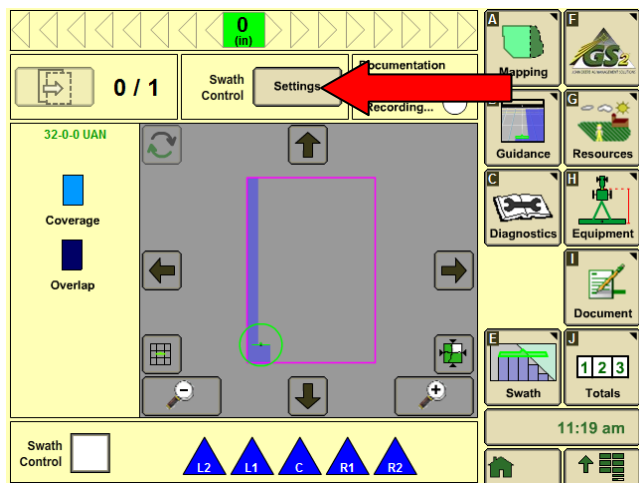
Swath Control Pro Settings



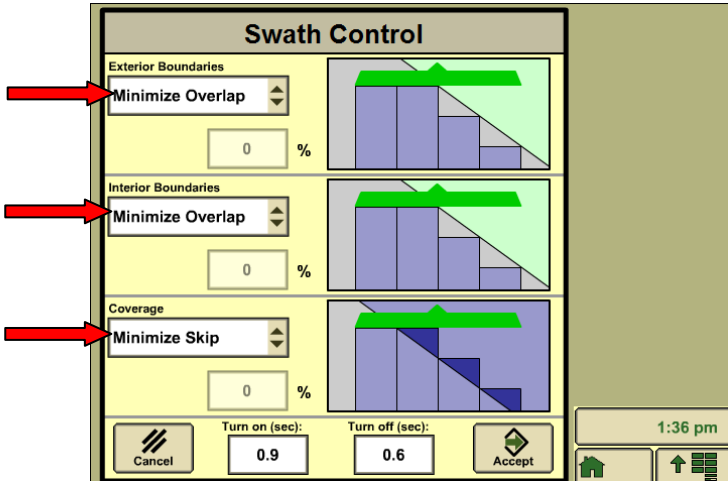
Touch the **GREENSTAR 2 PRO** BUTTON.



Touch the **E TAB (SWATH)**

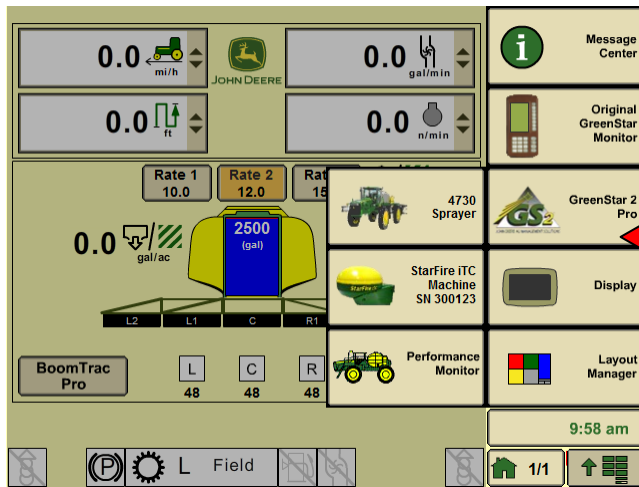


Touch the **SWATH CONTROL SETTINGS** button

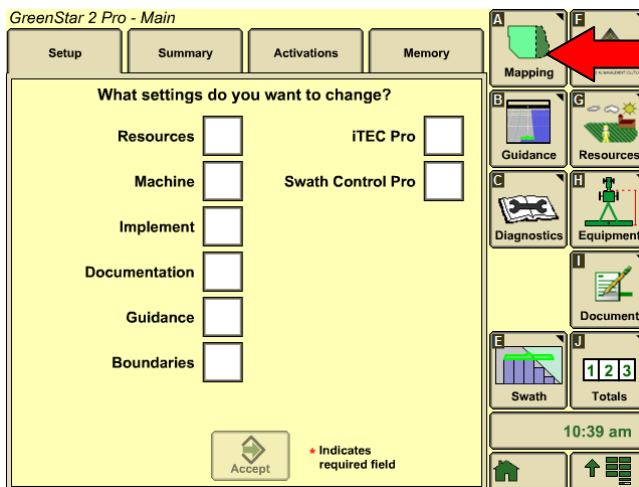


Set Exterior Boundaries to Minimize Overlap, Interior Boundaries to Minimize Overlap, and Coverage to Minimize Skip. Turn on (sec) is how early the section will turn on before it reaches an area it needs to spray (exiting headlands). Turn off (sec) is how early the section will turn off before it reaches an area it has already sprayed or a boundary (entering headlands). Reason for the turn on/turn off times is due to mechanical delay time it takes to turn the valve on and off. These times vary depending on the speed the sprayer is traveling.

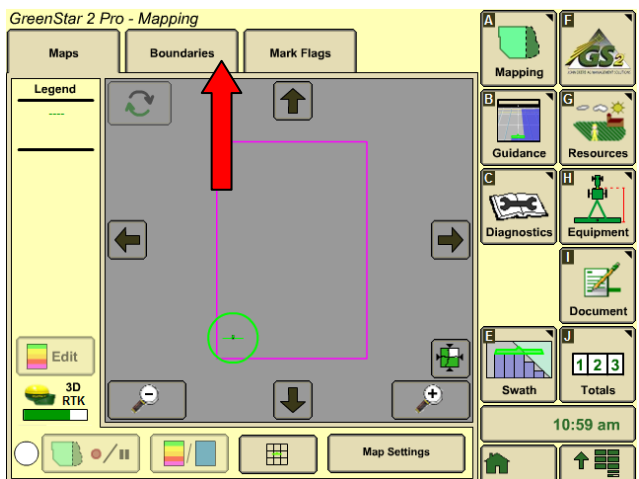
Setting Up Boundaries



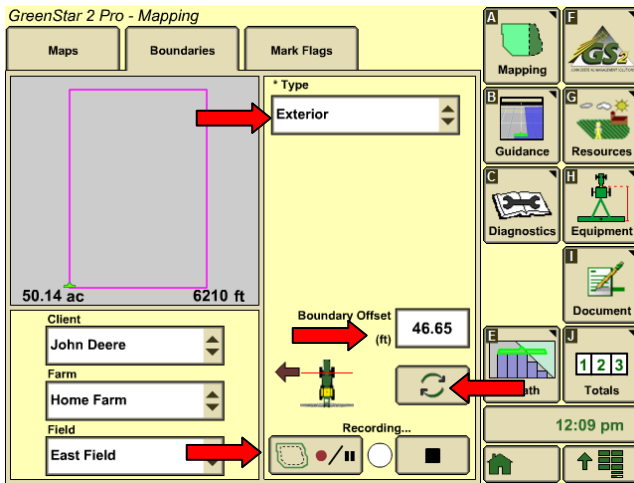
Touch the **GREENSTAR 2 PRO BUTTON**.



Touch the **A TAB (MAPPING)**

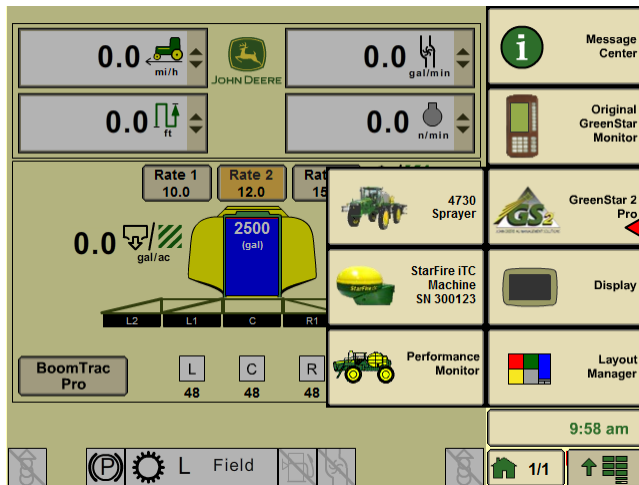


Touch the **BOUNDARIES TAB** across the top of the page.

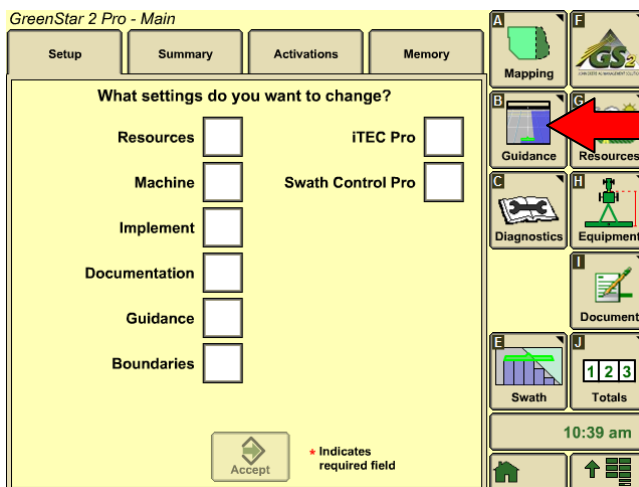


Select either Exterior or Interior boundary. You can only have one exterior boundary (outside of the field) in a field and you may have multiple interior boundaries (waterways, ect.) Enter the boundary offset from the center of the machine (Example: This machine has a spray width of 93.3 feet, the boundary offset would be half of 93.3 or 46.65) Make sure the arrow is facing on the side of the machine the boundary is located on.

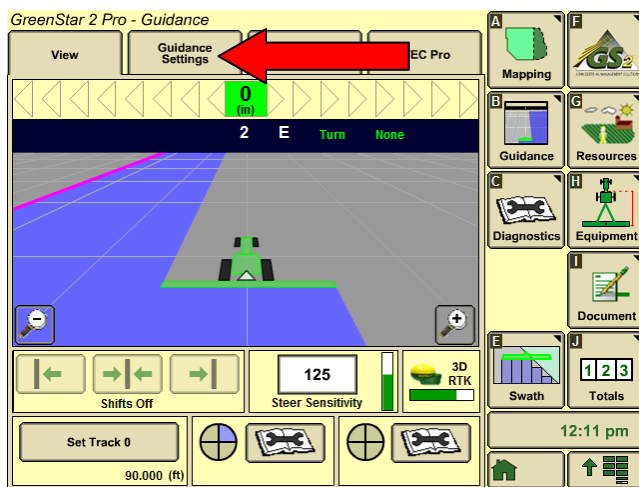
Setting Up AutoTrac



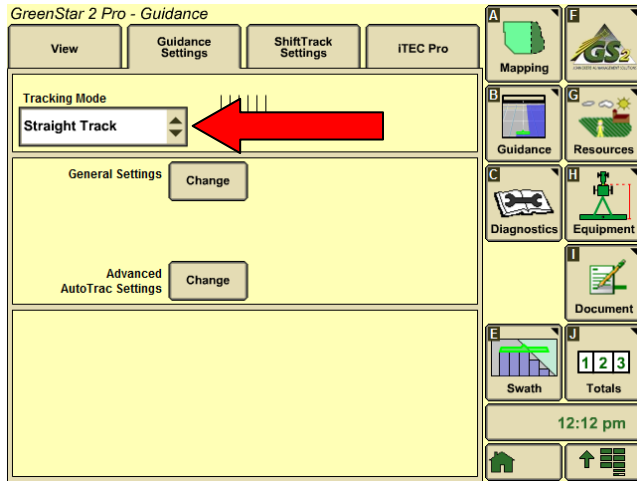
Touch the **GREENSTAR 2 PRO** BUTTON.



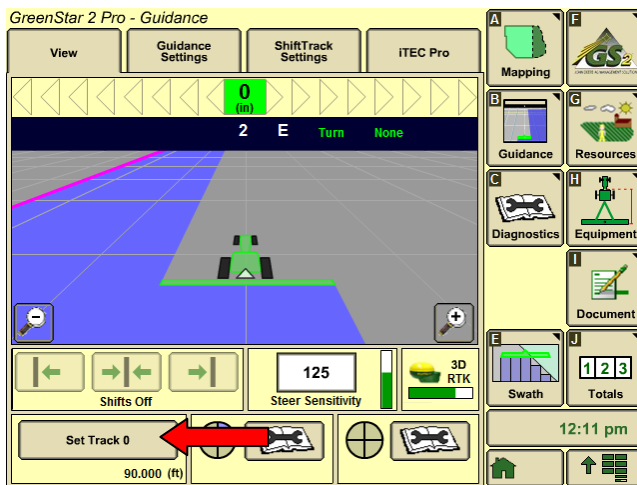
Touch the **B TAB (GUIDANCE)**



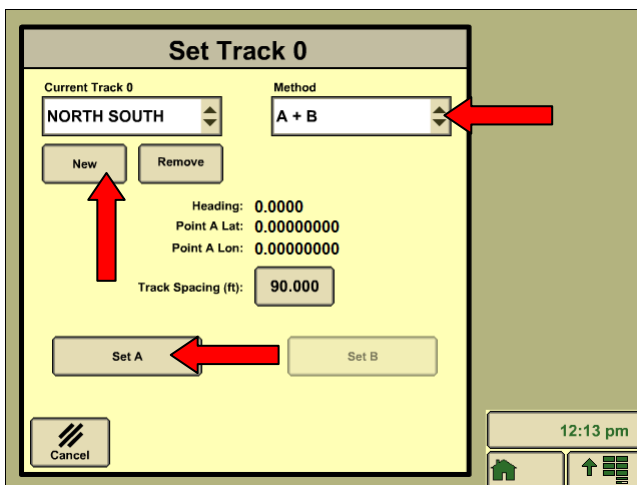
Touch the **GUIDANCE SETTINGS** tab going across the top of the screen.



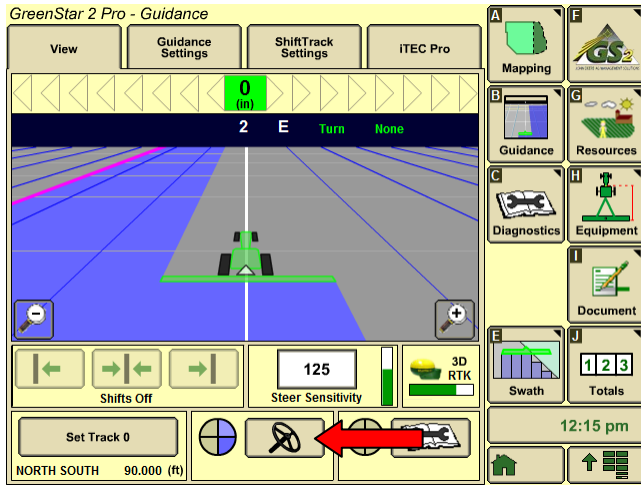
Select the **STRAIGHT TRACK** or the tracking mode you would like to operate in. Then touch the **VIEW** tab across the top of the screen.



Touch **SET TRACK 0**




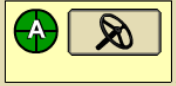
Touch the **NEW** button and name the track when the keyboard comes up. Then you may select your method you would like to use to create the straight track (most commonly you will use A+B Method). Touch **SET A** to set you're **A** point, once you have manually drove the machine to the other end of the field you may then touch **SET B**.



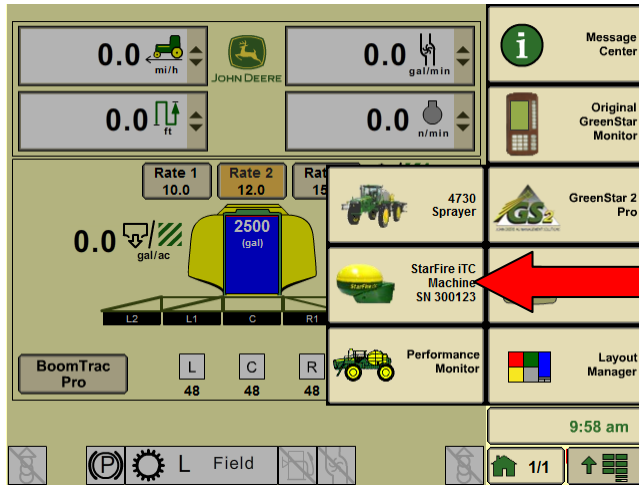
Touch the steering wheel button to turn the steering on.

The icon will look like this when the steering is

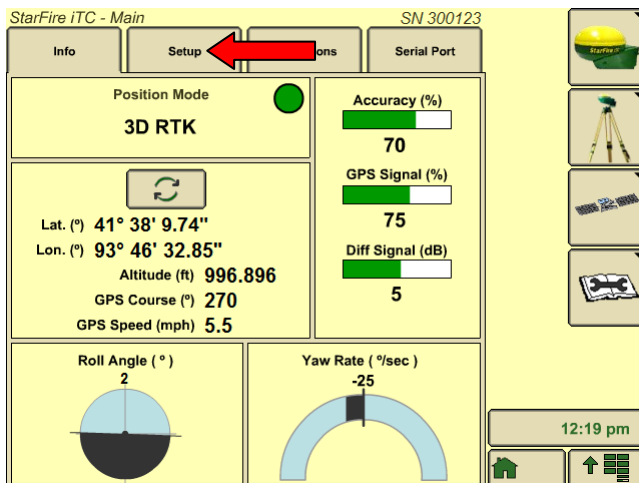
on  **Steer On** Once the steering is turned on then press the **NUMBER 2** button on the hydro handle to engage AutoTrac. The steering icon

will then appear like this 

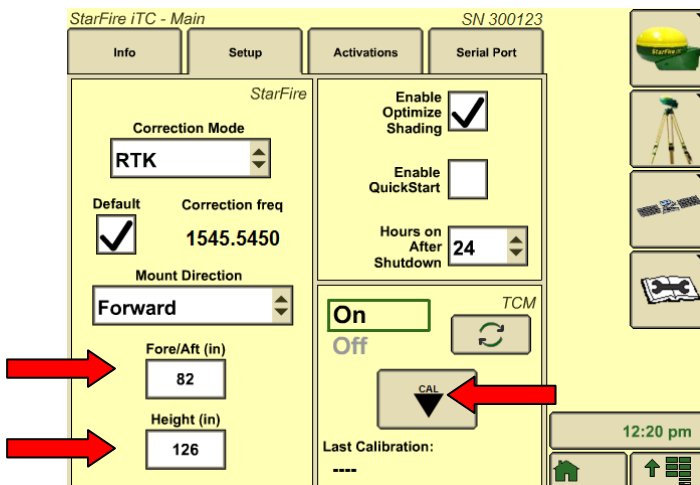
Setting Up StarFire Receiver



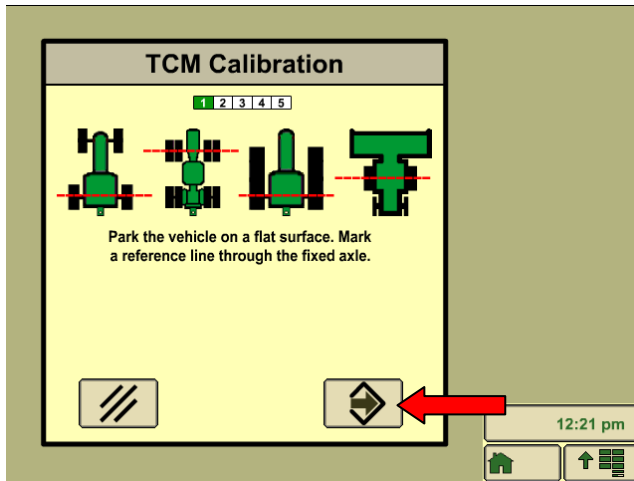
Touch the **StarFire Tab**



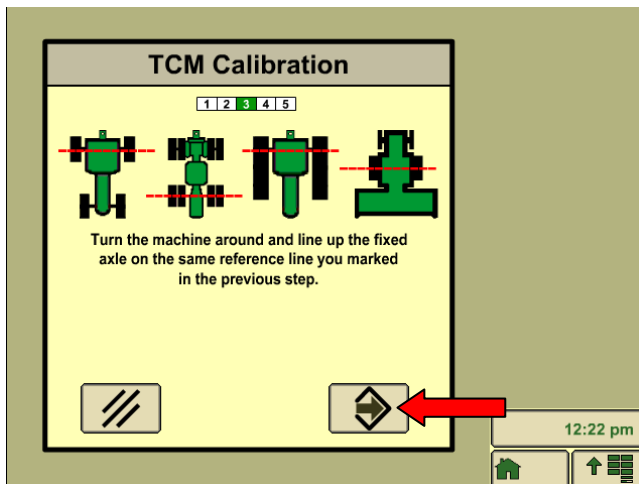
Touch the **SETUP** tab going across the top of the screen



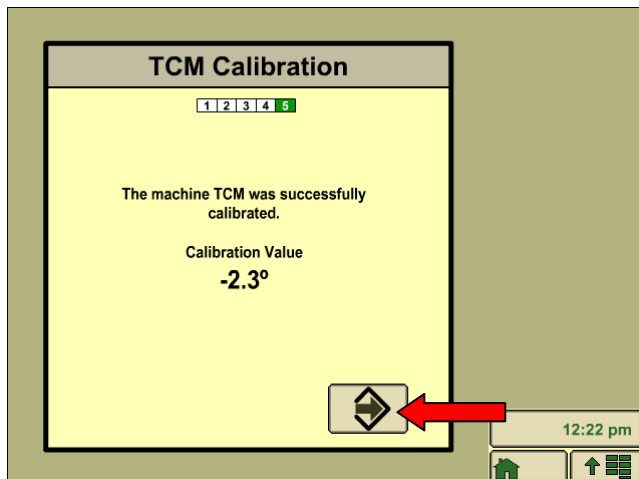
Measure the fore/aft and height of the receiver then put those measurements into the appropriate boxes on the bottom left of the page. Touch the **CAL** button to calibrate the Terrain Compensation Module. It is important to recalibrate the TCM anytime the receiver is moved from machine to machine.



Follow the on screen instructions for calibrating the TCM. Then hit the **ENTER** button in the bottom right corner.



Follow the on screen instructions for calibrating the TCM. Then hit the **ENTER** button in the bottom right corner.



If you do not get a calibration factor in the ranges of -3 and +3 then make sure to recalibrate the TCM. Make sure that you are parked on a flat surface with the fixed axle in the same location in both directions.