



Precision Liquid Fertilizer Solutions

AgXcel Quick Start Guide for Auto X Controllers



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AgXcel Auto X Compact/Auto X GPA Twin PUMP Quick Configuration Guide

Once the AgXcel Fertilizer Application system has been installed and all the plumbing, electrical harness and the AgXcel Auto X Compact have been installed, these next steps will guide to configuring the controller. (Installation tip – do not insert orifices into check valves until system has ran a few minutes. This will allow all trash and particles to drain out of the system and not become lodged in the orifice.)

1. Power on the controller
2. Once the controller has been powered on:
 - a. Place the controller into the HOLD position “hold” will be shown on the screen.
 - b. Make sure ALL 3 boom switches are in the OFF position
3. Press and hold the “Cal” button until the RED led comes on and stays on
4. You are now in Calibration mode –
 - a. Turn the dial to the FLOW CAL position
 - b. Inter the flow meter calibration number that is on the flow meter tag
5. While STILL in calibration mode turn the knob to the WIDTH CAL position

Enter the width of the implement across the 3 boom sections. If you are not using sectional booms then on boom 1 enter the entire width of your implement in inches. For example: If you have a 16 row 30 planter → $16 \times 30 = 480$ inches – This is the number “480” that you would enter into boom 1. If you are using 3 section booms then enter the width of EACH individual section into its corresponding boom #.

- a. With the RUN/HOLD switch in the HOLD position (HOLD must be exhibited on the display) turn BOOM #1 ON
 - b. The LED will flash and you will enter “480” into the display by pushing the “+” button on the console
6. If you are using all 3 booms follow the same steps above with the following additions
 - a. Once boom one is configured
 - i. Turn boom 1 OFF
 - ii. Turn boom 2 ON and enter the width of the second section, once configured turn boom 2 OFF
 - iii. Turn boom 3 ON enter the width of the second section, once configured turn boom 3 OFF
7. At this time PRESS and HOLD the “Cal” button until the RED led turns off. This will allow all your settings to be saved in memory!



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**You are now ready to test the system for rate and any liquid leaks
(This test will allow you to simulate speed so as to test the system for accuracy)**

8. Go back into calibration mode by pressing the “cal” button and holding it until the RED led light is on.
9. Turn the black knob to the “RATE” position
 - a. Set the GPA target rate by pressing the “+” or “-“ button
10. Turn the black knob to the SPEED position
 - a. Set the target SPEED to the desired SIMULATED planting speed
11. Now switch the RUN/HOLD switch to the RUN position

The system should now be operational. Allow the system to purge out any air and then stabilize before making any adjustments to the flow rate and speed (at this point you may install all orifices). This would be a good time to check for system leaks and stabilizing pressure. Use the following calculation to determine the ounces per minute per row requirement in order to perform a catch test.

Width x Speed x Application Rate x 0.259 = Ounces per Minute

Example – 24 row 30” spacing planter at 5 mph and 5.3 GPA requirements

= 60 ft bar x 5 mph x 5 GPA x 0.259 = 388.5 ounces divided by 24 rows = 16.18 oz/min/row

You will need to perform a catch test on at least 3 rows across the unit and ensure you are catching close to 16.18 ounces in 1 minute.

Trouble Shooting Tips:

- Make sure all filters are cleaned throughout the process
- Ensure there are no kinked lines, hoses, or plugged orifices
- Fold and unfold the implement to ensure that no lines are pulled or pinched

