

# PH OUTDOORS™



**G-SERIES**  
No-Till Drill

# CALIBRATION MANUAL



The calibration process for the PH Outdoors G-Series No Till Drills has been designed to be quick and easy without the need for any tools. Although a comprehensive Seed Setting Chart is available, the calibration process is a vital step to insure the most accurate seeding rate for your application. Seed sizes and weights can change from year to year due to environmental conditions. Also, this process would be necessary for any seeds not currently on our Seed Settings Chart, or for the use of custom seed blends.





## **ITEMS NEEDED FOR CALIBRATION**




1. **Scale (preferably a kitchen or postage scale)**
2. **Container to Weigh Seed (box, plastic container, small catering pan)**
3. **Calculator or access to the [PH Outdoors Calibration Calculator](#)**



\*\*\*We recommend using a kitchen or postage scale. This will ensure the most accurate calibration possible.\*\*\*

\*\*\*We do not recommend used the calibration tray as the container to weigh your seed in, due to the weight of the tray making most scales less accurate.\*\*\*

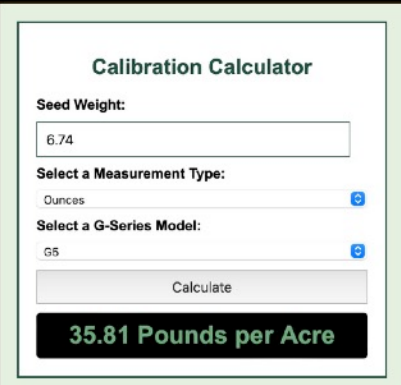
<p><b>1</b></p>	<p>Put your desired seed in the seed hopper, making sure that all of the seeding elements have plenty of seed in them. If one of the seeding elements runs out of seed during the calibration process, the calibration will not be accurate. Continue to make sure there is a proper amount of seed in the seed hopper at all times.</p>	
<p><b>2</b></p>	<p>Take off the 2 black knobs that hold the calibration tray in place, slide the calibration tray out, flip the tray over, and reinsert it. The tray is now in the calibration position. At the end of the calibration process, don't forget to return the tray back to the planting position.</p>	
<p><b>3</b></p>	<p>After consulting with the Seed Settings Chart to get a starting point for your settings, we will first adjust the Gate Setting. On the right side of the machine, you will see the Gate Lever. Loosen the black knob and move the lever to the corresponding number in the Seed Setting Chart. This adjustment is only made for the seed size. Make sure to tighten the black knob once the Gate Lever has been adjusted.</p>	
<p><b>4</b></p>	<p>Move to the left side of the machine where you will find the Variable Gear Box. First, loosen the 2 black knobs on the top of the Gear Box, but do not take them off. Rotate the large black knob on the front of the Gear Box until the line in the sight glass lines up with the number for your chosen seed from the Seed Settings Chart. Retighten the 2 black knobs on the top to lock the gearbox at that setting.</p>	

<p><b>5</b></p>	<p>Just behind the Gear Box, you will find the drive wheel. Spin the drive wheel counter-clockwise until you can clearly see seed dumping into the calibration tray from all of the seeding elements. Now that the seed elements are primed, dump this seed back into the hopper and replace the tray back into the calibration position.</p>											
<p><b>6</b></p>	<p>Using the hole in the drive wheel as a reference, you are now going to spin the drive wheel <b>26</b> times in the counter-clockwise direction.</p>											
<p><b>7</b></p>	<p>Once this is complete, carefully remove the calibration tray and dump the seed into the container you chose to weigh the seed in. Don't forget to Tar the scale to whatever container you are using to weigh the seed.</p>											
<p><b>8</b></p>	<p>Weigh your seed in pounds. Take this number and multiply that by your G-Series Model Multiplier. This sum is your Pounds Per Acre.</p> <p><b>(Seed Weight in lbs.) X (Multiplier) = Pounds Per Acre</b></p> <p>***For seeds with low seeding rates, you can weigh the seed in OUNCES and then divide the sum by 16. This will give you a more accurate calibration for lower seeding rates.***</p>	<table border="1"> <thead> <tr> <th>G-SERIES MODEL</th> <th>MULTIPLIER</th> </tr> </thead> <tbody> <tr> <td><b>G3</b></td> <td>129</td> </tr> <tr> <td><b>G5</b></td> <td>81</td> </tr> <tr> <td><b>G8</b></td> <td>50</td> </tr> <tr> <td><b>G10</b></td> <td>41</td> </tr> </tbody> </table>	G-SERIES MODEL	MULTIPLIER	<b>G3</b>	129	<b>G5</b>	81	<b>G8</b>	50	<b>G10</b>	41
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For an easier way to calculate your seed rate. There is Calibration Calculator available at [PH-Outdoors.com/Calculator](https://PH-Outdoors.com/Calculator)

Just enter in your seed weight, select whether you are weighing in Ounces or Pounds, choose your G-Series Model, and press Calculate.



The screenshot shows a web-based 'Calibration Calculator'. It has three input fields: 'Seed Weight' with the value '6.74', 'Select a Measurement Type' with a dropdown menu set to 'Ounces', and 'Select a G-Series Model' with a dropdown menu set to 'G5'. Below these fields is a 'Calculate' button. At the bottom of the calculator, a black box displays the result: '35.81 Pounds per Acre'.

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Depending on your results, you can now increase or decrease the number on the Gear Box, then going back and repeating the previous steps. Once you have achieved the desired seeding rate, remove, flip and reinstall the calibration tray back into the planting position. Secure the tray with the 2 black knobs on either side.



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Now, depending on your soil type, soil condition, and variety of seed, you will need to set the Depth Pins that are in front of each packing wheel. These numbers are only meant as reference, as everyone's planting conditions will vary. To change, just pull the R-clip, slide the Depth Pin out and replace it to the desired position. Reinsert the R-clip to lock it in place.



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For finer adjustment of depth, the top link can be lengthened or shortened to help achieve the desired planting depth.



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Additionally, the G5, G8 and G10 models have an integrated weight bar that is located at the front of the drill attached to the frame. Standard suitcase weights can be added if more weight is needed to achieve your desired planting depth.



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Now, you will want to put the drill on the ground and drive forward a small distance. Get off and check the depth that the seed is being planting at. Adjust the Depth Pins, top link, and/or addition of weights to achieve your desired planting depth.



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Once you are done with all of your calibration settings, now is a good time to make sure all of the adjustment knobs are tightened, the Calibration Tray is in the planting position, and you have plenty of seed in your hopper.

