

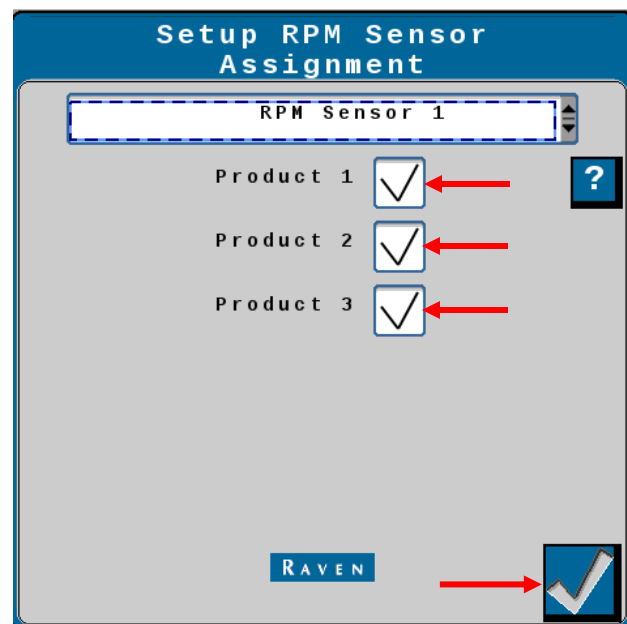
STATIONARY METER DRIVE CHECK

Metering accuracy is one of the most important things to giving the crops you sow their best chance in an oftentimes unforgiving environment. Periodic checks will help ensure that your metering drives maintain accuracy at your machine's full potential. Below is a tutorial to do a stationary check of those drives. The preliminary checks should be performed with empty tanks to ensure that all components are adjusted properly. A supplementary check should then be performed with product just before the machine is ready to begin operating for the year.

1. Start your tractor and power on your monitor.
2. Once everything is loaded, navigate to the VT in your ISO monitor, or the UT in the Viper 4+.
3. Touch the object pool that controls the metering you wish to test. If multiple products are available within that object pool, select the one with which you will be working.
4. Engage the product safety switch for the product or products that you want to check. Touch the red circle to turn it green. You must do this for all products. **NOTE: When multiple products are present, it is extremely important that you choose the correct one you have set up for. Failure to do so could result in serious injury.**



5. Ensure that an application rate is entered for each product being checked.
6. Activate the hydraulics on the appropriate fan(s) to ensure the meters will turn. You have the option to disable them to allow the meters to run without the fans:
 - a. Touch the settings button.
 - b. Touch the wrench/screwdriver icon.
 - c. Touch Auxiliary Function Setup.
 - d. Touch RPM assignment setup.
 - e. Take the checkmarks out of the boxes for each product.
 - f. Then touch the checkmark in the lower right-hand corner.
 - g. Touch the home key. **NOTE:**



SeedMaster recommends running the fans. If your conditions require the fans to be off, ensure steps "a" through "g" are completed again after the tests are finished to reactivate the fan control. Failure to do so could result in severely plugged meters and cause damage not covered under warranty.

STATIONARY METER DRIVE CHECK

7. Input a manual speed by touching on the icon that has the blue tractor with an arrow.
8. Activate your system pressure.
9. Engage the master switch by stepping on the foot pedal.
10. The meters should now be spinning. Note the meter drive pressure on the gauge on the pressure side of the drive motor. Ideally, the pressure should be in between 200-350 psi *when running without product*.
11. If meters are turning but the drive pressure is high, shut them down, disengage the product safety switches, and perform the following steps:
 - a. Inspect the meter common drive chains to confirm they are aligned properly.
 - b. Inspect the meter common drive bearings/bushings to make sure they are not worn.
 - c. Inspect the common drive shaft to ensure that it is true. Over-torquing of the shaft can occur when the meters are turning hard or jammed and cause damage.
 - d. Check all Zone Command idler gear alignments. Straighten if necessary.
 - e. With the meter arms disengaged, manually turn each meter roller to test its ease of operation. If high resistance or difficulty is encountered, it is a good idea to take down the meter, pull out the roller, and remove the o-ring from inside the roller bushing hub. Clean out the groove for it and reassemble. If the meter is still difficult to turn, or air leaks are present, a rebuild may be necessary.
 - f. If all meters check out ok and you are still experiencing a high drive pressure, you can lubricate the chains with to ensure they are running smoothly.



We thank you for maintaining your SeedMaster equipment. If you have any questions, please contact your [SeedMaster Certified Dealer](#) directly.