

SEEDMASTER CALIBRATION QUICK GUIDE

Use this guide to calibrate SeedMaster granular tanks using the in-cab Raven Viper monitor.

Please refer to your SeedMaster “2013 Operator’s Manual” if using a remote display located at your tank.

1. Set up to catch product from one metering section.
2. Prime meter manually. Disengage meter drive with one hand by extending air cylinder and spin the meter with the other hand until the meter is fully primed.

Switch Box Set-up (attached directly below in-cab Viper monitor)

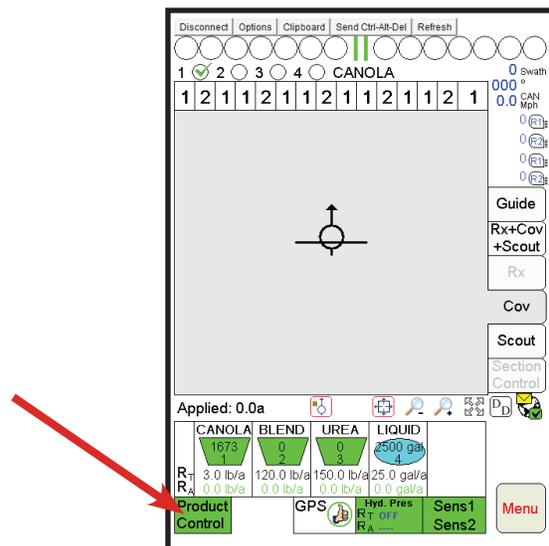
3. Turn “Master” switch to the **OFF** position.
4. Turn “Sections” switch to the **ON** position for the zone that you are set up to catch product from (If switch activates 2 zones, you must catch from both zones).
5. Turn “Product Control” switch to **AUTO** position for product tank # that you are calibrating.

Tractor Hydraulics

6. Engage tractor hydraulics to green/red remote pair to supply hydraulic pressure to main hydraulic block located on front of toolbar. Set system pressure at 2500-2900psi.

Viper Monitor

7. From the main work screen, press “Product Control”.



15. Change the "Cal Weight" number to 0.1 when calibrating canola or similar sized seed. All other seed sizes (wheat, granular fertilizer, peas, etc.) enter a "Cal Weight" number of 2.0.

16. Press "Calibration Assistance".

Node 1 Settings

Bin Sensor Cal 0.0

Rate Cal

Rate +/-

Meter Cal

Cal Weight

←	→	*	/	+	-	=	.	←←	←
1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
Cap	A	S	D	F	G	H	J	K	L
Shift	Z	X	C	V	B	N	M	End	
\$	%	@	\	,	:	Space	Enter		

17. Ignore point #1 on screen

18. Press "Begin Calibration".

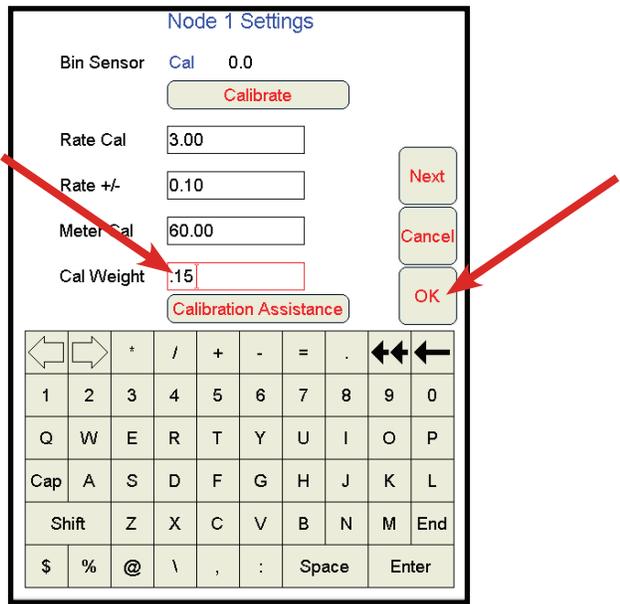
19. Ignore point #4 on screen.

Cal Weight Calibration

- Use Inc/Dec switch to prime the desired meter.
- Place container to catch product.
- Press the Begin Calibration button.
- Use Inc/Dec switch to meter product.
- Press the End Calibration button.
- Enter the weight of the product metered.
 Weight Lbs
- Press the Calculate button to calculate the Cal Weight value.

1	2	3	4	5	←←	←
6	7	8	9	0	-	.

20. Ensure no person is near the meters. On the switch box below Viper monitor, turn "Master" switch to the ON position. Allow meters to turn until adequate sample is collected. The more sample collected, the more accurate the calibration.
21. Turn "Master" switch to the **OFF** position when adequate sample is collected.
22. Press "End Calibration".
23. Weigh the product sample caught and subtract the weight of the catch container. Enter this exact weight in pounds on the Viper monitor.
24. Press "Calculate".
25. A new "Cal Weight" # will display on the Viper screen.



26. Repeat the calibration procedure to ensure a similar "Cal Weight" # is attained. This ensures an accurate calibration.
27. Press "OK"

28. Touch within the "Miscellaneous" area of the screen.

CAN Controller Status					
Section Cals			Miscellaneous		
1	120	1	120	2	240
1	120	1	120	2	240
1	120	1	120	2	240
1	120	1	120	2	240
1	120	2	240		
1	120				

Miscellaneous	
Speed Sensor	Radars
Speed Cal	785
Self Test	5.00
Speed	5.0
Units	US

Fan Calibration

Product 1

Off Rate % 30 Bin Level Alarm On Smoothing On

Low Tank 0.0 Decimal Shift On

Low Limit 0.0 Zero Shutoff On

Area/Hour 0.0 Cal Weight 0.15 Pre Set Pw 0

Vol/Min 0.0 Valve Cal 43 Pw Freq 125

Rate Cal 3.0 Valve Delay 0.0

Rate +/- 0.1 PWM 0

Meter Cal 60.0 Min Pw 40 Appl Delay 0.0

RPM 0.0 Max Pw 253 Bin Level % Cal

Pressure 1 ---- Application Gran4

Pressure 2 ---- PWM Close Valve

Tally Reg. CAN Profile OK

29. Place check mark next to "Remote Master".

30. Press "OK".

Miscellaneous Settings

Speed Sensor Radars Wheel

Speed Source Air Cart Switch Box

Speed Cal

Self Test

Audible Alarm Off On

Remote Master

Boom Capacity Off On

Max Capacity

1	2	3	4	5	←←←←
6	7	8	9	0	- .

You have successfully completed the calibration procedure. Repeat procedure for other granular tanks.