

Dickey-john : Control Point Granular Calibration

You need a Calibration Keyboard and Calibration Box



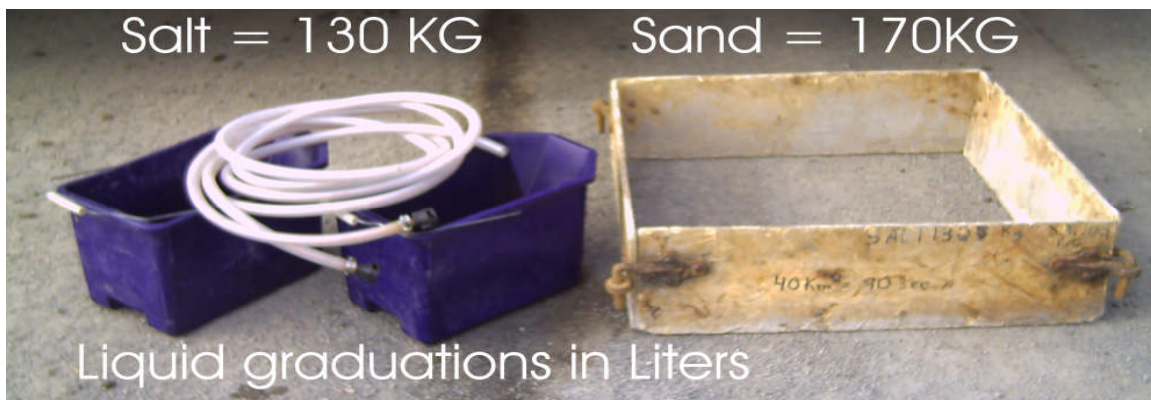
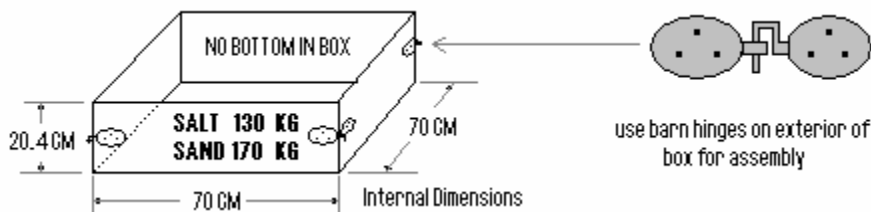
Calibration Box

70cm x 70cm x 20.4cm height box (with no bottom) to catch all the dispensed material from the conveyor or auger.

Salt - $1.30 \times .0999 = 130\text{kg}$:

Sand - $1.70 \times .0999 = 170\text{kg}$

Weight of material in level filled box.

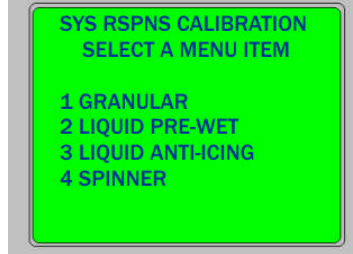


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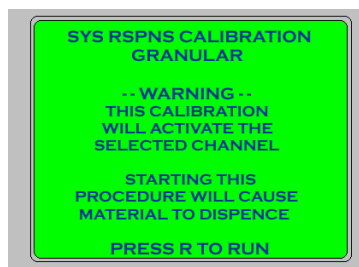
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Calibration of System Response f11

- 1/ Turn the truck on: engage PTO and increase rpm to 1500.
Go to f 11 on your keyboard



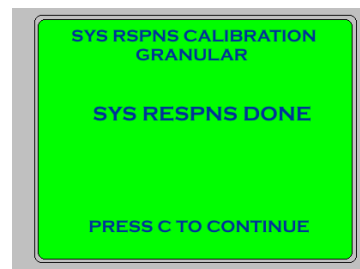
Choose 1: for granular



Press R to Run

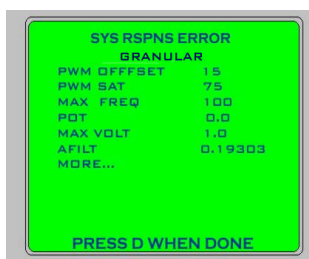


Start and stop is normal



If every thing ran properly you will see DONE
After 1 minute or 2.

SYS Error failure



- 1/ Check if PTO is on. And liquid valves.
2/ Controller did not see an application rate signal; check wiring to sensor and check sensor its self.

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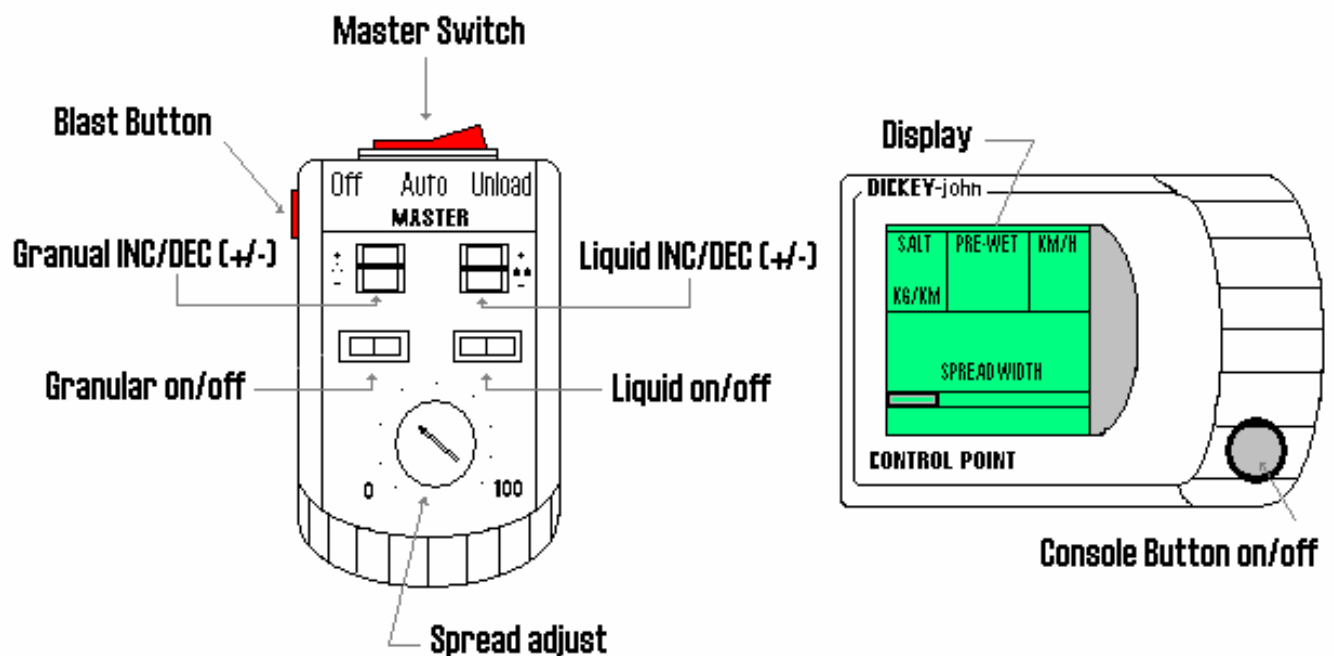
- 1/ Set gate height for proper opening and mark it.**
(If gate height sensor is used: calibrate it first)
Load the truck hopper with the desired material.



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2/ Use unload for a short time to fill cross conveyor.
And test basic operation.



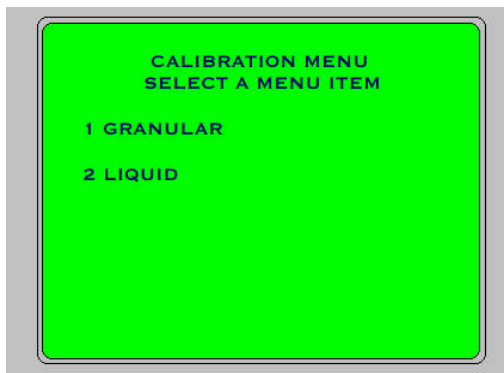
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4/

**Place calibration box as in photo.
Go to: F6 on Keyboard**

Press **F6** for calibration on keyboard – press **1 Granular – 1 salt (enabled)**
With the truck stationary: engage PTO and increase rpm to 1500. Set spinner to 0



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5/ Your display should read:



--WARNING--

This calibration will activate the selected channel

----- Catch material in weighted container -----

PRESS R TO RUN

6/ Press **R** and fill the box. Press **S** to stop when box is full and level.



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7/ Enter the weight of the material (salt 130kg) (sand or mix 170kg)

Press **enter** (it will calculate pulses/kg) see top of screen!

Enter the weight again; push Enter notice the calculation result at the TOP
Record this number

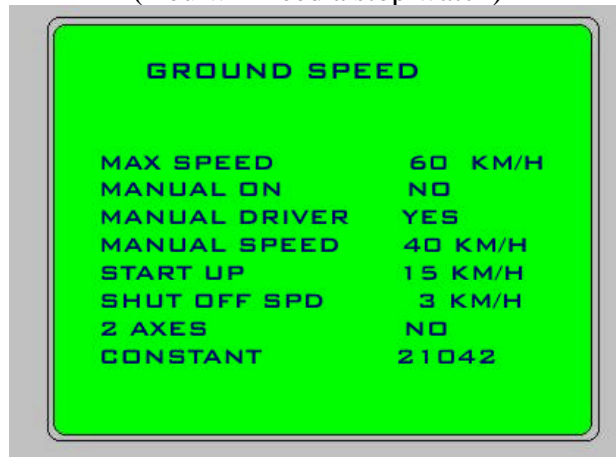


8/ Press **D** when finished.

9/ Repeat this procedure for each granular material used
and using proper gate height.

Verification

Set manual speed to 40 km/hr (use manual speed F7 configuration)
(You will need a stop watch)



Set your salt rate at 130 kg & run the system in Auto for 90 seconds.
The result is the box should be full within 5%.

Salt: At 40 km/hr vehicle travels 1km in 1.5 minutes.
At 130kg per km this means $130/1.5 = 86.6$ kg per minute.

The box holds 130 kg. Thus it will take $130/87 = 1.5$ minutes, or 90 sec, to fill the box.

Sand: At **170-kg/km** it will take 1.5 minutes or 90 sec to fill the box.

(You can increase or decrease the constant to match the level of fill.)

Too much material means reduce the constant (pulses per Kg) by the % needed.

Too little material means reduce the constant (pulses per Kg) by the % needed.



Champion Industrial Equipment 1-613-938-2900

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