



# **Vortex**<sup>TM</sup>

## **Granular Systems, LLC**

### **General Operating Instructions and Operating Tips for the Vortex SPC<sup>TM</sup> Spreader**

- Engines run on MIXED gasoline per the manufacture instructions. We like to run the mix rich, more oil in a gallon. TIP: Use a brand name 2 cycle mix oil made for small engines not outboard motor oil.
- Cleaning the units- it is recommended that the units be washed after each use. To thoroughly wash the unit, start the engine and run to operating speed. Set the fertilizer delivery hose on the ground and flush the system with water for at least 2 minutes with the handle in the open position. Open and close the valve to help clean the valve plates. If build up of material is visible in the manifold and valve assembly a bottlebrush should be used to remove the build up.
- To remove the manifold assembly, remove both hoses, the black filter and PVC fitting the filter threads into and then un-screw the manifold from the valve. TIP: Do not overtighten the filter fitting that screws to the manifold it can crack the pvc saddle on the manifold.
- The Vortex units will need the black filter removed and washed from the inside out and the outside in.
- TIP: Not washing out build up will eventually cause clogging.
- If lubricating the valve components use Teflon dry lube liquid or spray, do no use any lubricant with petroleum distillates, this will leave a residue that can cause build up of dust.

**If your material flow rate has reduced, the machine most likely needs to be thoroughly washed. Check for build up in the fertilizer delivery hose, manifold and wash the black filter.**

**Questions while operating or cleaning the Vortex SPC  
Call 877-886-7839 or 954-650-7590**

# **Applying material with the: Vortex SPC™ Spreader**

- Add material to the hopper, fill to desired level. Less material in the hopper makes moving the unit through tall turf easier.
- Run the engine to full speed, if using lightweight material or small granular sized material the engine speed can be reduced.
- If the engine is running too slow the material will continue to flow out the end of the hose after the valve is closed. Increase the engine speed or reduce flow of material by opening the valve less.
- The extension tubes are used to increase the delivery distance of the material. The smaller diameter tube will allow for longer delivery distance, but at a reduced flow rate. The larger diameter extension tube will allow for more volume of material, but with less delivery distance.
- While using the smaller diameter extension tube it might be necessary to reduce your valve opening. The smaller diameter tube makes the system backup material because of the reduced flow rate to allow for longer material delivery distance.
- The black vent on the side of the manifold needs to be cleaned as necessary while applying material. This can be accomplished by using the airflow from the blower tube while the engine is operating up to speed. This is not a substitute for washing the vent, this serves to keep the vent clean while applying dusty or large amounts of material.
- The application of material using the Vortex Spreader looks different than applying by hand. Be aware that some customers might want rings or piles of material. Assure the customer that the Vortex method of application is far superior than applying by hand. The Vortex Spreaders apply material to the complete root zone, providing an even feeding to the whole plant. University studies prove that an even spread of material is superior to large mounds or rings of product.
- Wet material should not be used in the Vortex Spreaders. This material will not flow through the valve and manifold system.
- Try applying different products. Herbicides, insecticides, minor elements, combination products, ice melt, etc. will all flow and perform well using the Vortex Spreaders.
- If we can assist in any way please call, gaining feedback from our customers helps us to build the best application equipment in the industry.

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