REM GrainVac Troubleshooting Guide

The machine does not seem to be getting proper capacity

- *Weather conditions:* the higher the humidity, the lower the capcity. The higher the temperature, the lower the capacity.
- *Hose configuration:* the straightest and least retrictive hoses are always the best for capacity. Rubber hoses should ONLY be used when maximum flexibility is needed. Keeping your hoses in a straight line with a gradual slope as possible, will help to achieve optimum capacity.
- *PTO Speed:* optimum capacity requires that your PTO speed at 1000RPM. If you tractor can only achieve 900 or 950 RPM, you will notice a big difference in certain grains. Lighter grains, like oats and barley, may get optimum capacity at 800 RPM. All depends on the situation and current condition.
- *Hose connection:* a poorly fitted or loose connection will suck in air and lower your capacity.
- *Air lock at the top of the auger:* there could be an obstruction, a spring in bad shape or missing altogether; or the spring is set at the wrong tension. The 2700 and 3700 also have a wear strip to consider.
- *Air leak:* check the inspection door, clean out door, auger seals, and inlet.
- *Rotor/Fan Belt Tension:* If the drive belt is loose, the fan will not turn at the proper speed, which lowers your capacity. Always make sure that there is no slippage of this belt.
- *Static electricity build up:* This could happen without you knowing it. This will plug the internal screen and greatly reduce airflow. Ground the machine by throwing the safety chain down, or putting the jack onto the ground.

I am getting excessive material coming out of the exhaust

552 & 1026	The poly seal is worn out
1026A, 1026B, 2700	The aluminum inlet is worn out
1026A, 1026B	The screen lip has worn off and cannot stop the grain from going through
1026, 1026A, 1026B	The inlet deflector has worn out. The deflector should be in place, in good condition, and adjusted so that it deflects the grain down into the auger.

The grain size is smaller than the hole size of the screen. Lowering the RPMs may help.

I've had problems with grain damage

A new machine may just need a little time to break in. Because all augers are hard-surfaced, they take about 5-10 hours of use before they are smooth enough to not damage grain.

Make sure the airlock tension is not too tight. Keep in mind that if you loosen the airlock for special situations, you may experience diminished capacity.

The grain may already be damaged. It is a sensitive subject with farmers. You can only recommend that they run the vac slower.

The augers fold extremely slow, or top section will not fold out

This can be a problem on hydraulic units only, and can be cured easily. There are orifice restrictions in the fittings at the hydraulic male tips. There are also some on the rest of the stytems near the lower lift cylinder and the control valve. If a small foregin object gets into your hydraulic system, it can become lodged in the structural orifices and cause this problem. Check your hydraulic schematics in your parts book for the proper locations. Simply clean out objects lodged in the restrictions and your system should return to normal function. Check for damaged tips on hoses, or damaged couplers on the tractor. Ensure hoses are pushed in properly. Check flow controls on the tractor.

For more tools, go to myrem.info

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I am burning front screen drive belts off

- There may be air leaking back down the auger. Ensure that foam or rubber seals between the auger tubes are in good condition and in place.
- Check the dumper tension on the unloading door.

1026-1026B	Tension should be 2-3 lbs. on the small door and 4-5 lbs. on the bigger door.
2100	Tension should be 3-4 lbs. on each door.
2500	Tension should be 3-5 lbs. on the small door and 5-7 lbs. on the bigger door.
2700	Tension should be 20-22 lbs.
3700	Tension should be 18-20 lbs.

- Your bottom auger could be bent back where the auger first goes into the pipe. You may have to pull the brush down (2500+) and look at the flighting to see if it is bent over. If it is bent over, grain will not go up the auger. You will have to bend it back in place. Flighting may have to be removed to be repaired.
- The air throttle kit can be adapted onto 2700 model machines. Reduces horsepower requirement and improves grain flow when moving lighter grains.
- Ensure that your inlet deflector is in place properly. If the grain is not being deflected down into the auger properly, it could float upwards into the screen.

I am going through an excessive amount of shearpins

- *Is there a foreign object caught in the auger?* You may have to remove the augers to see if something has been lodged in them. Drive dogs may be out of sync if they have previously been worked on.
- *Are all augers turning when grain is going up the auger?* You may find that just the bottom auger is turning, or just the bottom two. This means that you have a drive dog engagement issue. You may need to check the auger alignment.
- *Is the gearbox seized or malfunctioning?* Remove the chain coupler that attaches the gearbox to the bottom auger along with the main drive chain that comes from the power shaft to see if the gearbox turns freely.
- Some tractors' PTO's engage very hard, so, if the auger has grain in it, you may shear pins in this scenario. The only thing you can do is feather the engagement of your PTO very slowly.

My augers are misaligned and, as a result, the middle or top sections are not turning causing shearpin breakage and no output

Your augers need to be re-aligned so that the augers engage correctly. Apply a straight edge across the drive dog of the bottom flighting. Typically the drive dog sits flush with the auger tube flange. Take note of how much of a gap there is between the straight edge and the flange. If flush, then you can adjust the bottom auger of the second or middle section, so it is also flush. Be sure to push hard enough on your straight edge to get into the foam or rubber seal. To align your augers, you will have to loosen the setscrews on the bearing, locking it into place.

The machine is pulsing or surging

This is usually caused when there is not sufficient air introduced into the grain flow. For optimum capacity, the machine needs more air at the end of the hose.

My GrainVac is hopping when in use

1026 - 2500	There is a baffle inside the screen that floats the screen to create dead air space so that debris collected on the screen can fall down into the auger. If the bearings seize up, the baffle will turn with the screen causing an imbalance. There could also be an obstruction that is not allowing the baffle to float in the bottom of the screen.
2700 & 3700	If there is a baffle, it can be removed. Newer models do not have the baffle.

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