



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

## BRUNeumatic Seed Blower / Vacuum

# Owners Manual

Models: 316-9G, 423-11G & 423-12G



[www.bruningenterprises.com](http://www.bruningenterprises.com)

Publication: ENG-OM-SV-001A

Rev A

Rev. Date: November 29, 2011



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax



Joe Bruning  
Owner  
Bruning Enterprises, Inc.

Thank you for your purchase of the BRUNeumatic Seed Blower / Vac.

Our product has been engineered to be robust, solid and dependable for many seasons of use.

It is important to read this manual completely and fully understand how your machine works prior to the first use. Any questions? Contact us.

This would be a good place to record your machine model # and serial #.

Model # \_\_\_\_\_ S/N: \_\_\_\_\_

Date of purchase: \_\_\_\_\_ Purchased from: \_\_\_\_\_

Additional copies of this owners manual may be obtained by contacting us. If you sell, trade or loan your machine to someone else, ensure this manual goes with the machine.

Bruning Enterprises, Inc., recommends OEM parts for your machine. Failure to use OEM parts, or modifications, changes, retrofits or anything that disturbs the original design content of this machine will void the warranty and may cause severe injury.

**DO NOT OPERATE YOUR MACHINE UNLESS YOU HAVE ALL GUARDS AND PARTS INSTALLED.**

This machine is designed to move seed from bulk containers or wagons to your planter or drill holding tanks. It is important to remember that all types of seeds are different. This machine will move corn seed different than it will move soybean seed for example. Estimated rated capacities are based upon seed corn. Your actual performance of this machine may vary from posted rated capacities.

**FOLLOW ALL WARNING PLAQUES ON THIS EQUIPMENT, READ AND FOLLOW INSTRUCTIONS FOUND ON THE MACHINE AND IN THIS MANUAL.**

#### WARRANTY POLICY

Bruning Enterprises, Inc., warrants this product manufactured and sold by it against defect in material. This warranty being expressly limited to replacement at the factory of such parts or products as shall appear to be defective after inspection. This warranty does not obligate the Company to bear cost of labor in replacement of parts. It is the policy of the company to make improvements without incurring obligations to add them to any unit already sold. No warranty is made or authorized to be made other than herein set forth. This warranty is in effect for 1 year after purchase. Bruning Enterprises warrants its own products only and cannot be responsible for damage to equipment on which it is mounted.

[www.bruningenterprises.com](http://www.bruningenterprises.com)



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

Read these instructions carefully to acquaint yourself with your BRUNeumatic Seed Blower / Vacuum. Working with unfamiliar equipment can lead to accidents.

- \* Safety shields and all guards and removable machine pieces must always be in place during operation.
- \* If installed on additional equipment, never park the equipment on a steep incline or leave the equipment running unattended.
- \* Never clean, lubricate or adjust a machine that is in motion. Always shut off the engine and remove the ignition key before performing service.
- \* Be sure the park brake is set before operating, if installed on additional equipment.
- \* Do not allow children to operate this equipment.
- \* Do not allow riders on the wagon or pickup, if so installed.
- \* Use speeds and caution dictated by the terrain being traversed. Do not operate on any slope steep enough to cause tipping or loss of control.
- \* Be sure all personnel are clear of the immediate area before operating.
- \* Read and understand the operator's manual and require all other persons who will operate the equipment to do the same.
- \* If operating on public roadways, where legal, be certain all lighting is operating properly and observe all traffic laws.
- \* Attach a slow moving vehicle emblem to the rear of the trailing implement, if needed.
- \* Beware of increased stopping distances and control effort when operating with implements attached.
- \* Be familiar with all controls and be prepared to stop engine and equipment quickly in an emergency.
- \* If seed or seed treatment is dusty or dirty, wear a full-face respirator.

**ALWAYS REMEMBER TO SHUT OFF THE  
GASOLINE PETCOCK WHEN MACHINE IS  
NOT IN USE!**

[www.bruningenterprises.com](http://www.bruningenterprises.com)

Publication: ENG-OM-005A

Rev A

Rev. Date: November 29, 2011



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

NOTE: Briggs & Stratton does not recommend the use of gasoline, which contains alcohol such as gasohol. If gasoline with alcohol is used, it must not contain more than 10% Ethanol and **MUST** be removed from the engine during storage. **DO NOT** use gasoline-containing methanol.

Your BRUNeumatic Seed Blower / Vacuum has been pre-filled at the factory with all needed lubricants, However, it is recommended that you check these items as outlined in the individual user manuals that can be found on our website, [www.bruningenterprises.com](http://www.bruningenterprises.com) in our technical information pages for each related item.

#### CAUTION: SAFETY SIGNS

Safety decals are placed on the implement to alert the operator and others to the risk of personal injury or unsafe operation during normal operations and servicing.

1. The safety decals must be kept clean and in good condition to ensure that they are legible.
2. Safety decals must be replaced if they are missing or illegible.
3. When components are replaced during repair or servicing, check that the new components include the necessary safety signs.
4. Replacement safety decals may be obtained from your local dealer or from us.

The user is responsible for inspecting his machine and for having parts repaired or replaced when continued use of the product would cause damage or excessive wear to the other parts.



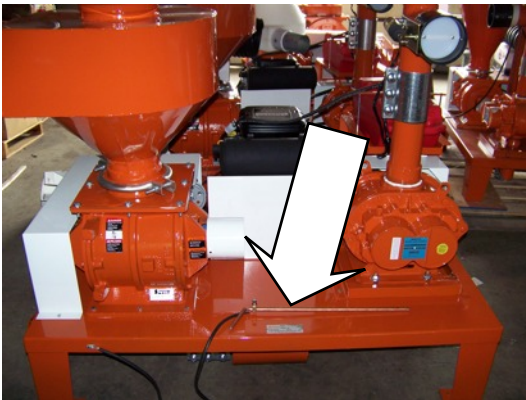
[www.bruningenterprises.com](http://www.bruningenterprises.com)



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

## Start Up Instructions

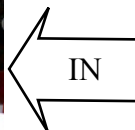
- 1.) Select a location for your machine. Many customers place the machine in the back of a pick up truck, or mount the machine to a trailer, hopper wagon or even a semi trailer. If using any of these, or other applications, make sure your machine is close to level, on a firm hard surface or mounted secure. Your BRUNeumatic Seed Vac / Blower can weigh up to 1000 pounds. Proper, safe, stability is essential for your safety and proper machine performance.
- 2.) Install the grounding rod in the ground. Proper static displacement will help to eliminate a static shock that can not only be of a nuisance, but can cause injury. If the ground is dry and hard, a little water added can be a big help. Your BRUNeumatic Seed Blower / Vac comes from the factory with static guard hose. It is important to have a proper ground path for static to dissipate. You must remember that when seed is pneumatically moved through a hose, there is a static charge that builds.



Insert ground rod at least  
3/4 of the length into the  
ground, if possible.

- 3.) Check the engine oil for proper level. Check that your gas tank is full. A full gas tank at the beginning of the planter fill is always nice and allows one less thing to worry about.
- 4.) Connect your hoses to the machine. The hose on the top is the intake line, the hose on the bottom is the output line.

Your machine comes standard with 50' of anti-static hose, some customers cut about 15' for the intake hose, and 35' for the discharge hose length.



[www.bruningenterprises.com](http://www.bruningenterprises.com)



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

- 5.) Your BRUNeumatic Seed Blower / Vac has a wireless remote control vacuum breaker that works up to 100 feet from your machine. Before starting the engine, make sure the butterfly is open. If you open the butterfly valve using your remote before shutting down the machine, this will help ensure it is open the next time you start the machine. If you run out of gasoline while the valve is closed, you must open the butterfly valve using the remote, it will not automatically open.
- 6.) With your hoses and cyclone in place, if you use a cyclone, ensure the gas valve petcock is in the ON position. Place the choke lever in the ON position for cold starting of the engine, and place the throttle in a position other than idle. Turn on the key and crank for no more than 5 to 10 seconds or until engine starts. If you crank the engine longer than 10 seconds and it does not start, wait 1 minute before attempting to start the engine again. This will help save the starter motor from overheating. You may call 1-800-999-9333 in the USA for help if engine does not start, or visit [www.VanguardEngines.com](http://www.VanguardEngines.com).
- 7.) Once engine has started, turn OFF the choke and set desired throttle speed, normally full throttle.
- 8.) Allow the seed to enter into the suction tube area, either from your pro-box, wagon slide gate, or other means.
- 9.) Holding the discharge cyclone in place, or if using the AIR Boom, make sure it is in position, depress the button on the wireless remote control to start seed flow.

Linear actuator shown with butterfly in closed position.  
The machine would draw seed into the cyclone and be dispensed through the rotary airlock.

Either button on the remote will open or close the butterfly.



**NOTE:**

The Linear Actuator will take 2 seconds to open or close fully. The machine will still dispense seed for a short time duration if opening the valve while dispensing product. Once you get familiar with the length of this time, you should be able to judge just how much more seed is dispensed after you shut off seed flow.

[www.bruningenterprises.com](http://www.bruningenterprises.com)



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

10.) After completing the filling of the planter or drill box, you might want to shut off the supply of seed to the unit and allow all the seed to fully dispense prior to opening the vacuum breaker butterfly, then shutting down the machine. All product is now out of the machine and lines.

The BRUNeumatic Seed Blower / Vacuum is a very versatile machine and has many uses other than just filling your planter hopper. The machine is very useful for removing seed from existing hoppers to a different container when changing seed brands or types.

You may use this machine for grain spills, HOWEVER, remember that everything runs through the rotary air lock. This is a very precision made, tight tolerance, expensive piece of equipment and while certain items can pass through the air lock with no issues, there may be things that you just do not want to run through the air lock. Gravel, sticks, stalks, dirt, highly dusty products all can have ill effects on your air lock.

Dusty items can enter into the air pump itself, thus shorting the life expectancy of the pump, another precision made, tight tolerance, expensive piece of equipment.

With all that being said, Bruning Enterprises, Inc., expressly suggests you use the machine as designed for moving seed and items such as clean soybeans and corn. Using this machine for other applications, while at times, feasible, will void the warranty and the end user is expressly responsible for their actions.



With the engine off, key removed, you can remove this band clamp  
To gain access to the screen. It is important to keep this screen clean.  
If you see a drop in suction, this screen would be a good place to check.

Removing this clamp allows you access to the rotary air lock, this will be  
a good place to access the air lock to clear a jam.

**VERY IMPORTANT!**

The shear action of the rotary air lock will injure you, even if turning by  
hand and you get a body part into the air lock, the potential exists to lose a  
finger or hand.

[www.bruningenterprises.com](http://www.bruningenterprises.com)



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

# Maintenance & Service Instructions

## Prior to each use

- 1.) Check to see that the engine oil is at proper level. Fill as needed. See owners manual for oil. At 40 deg Fahrenheit or below, SAE 30 will result in hard starting, above 80 deg F and hotter, SAE 30 will increase oil consumption. HOW TO CHECK: Place cold engine level. Clean around the dipstick. Remove the dip stick and wipe with a clean cloth. Fully insert the dip stick. Remove the dip stick and check the oil level. It should be at the top of the full indicator on the dip stick. If low, add oil slowly into the engine oil fill. DO NOT OVERFILL! After adding oil, wait one minute and recheck level.
- 2.) Check the operation of the wireless vacuum remote prior to starting the engine.
- 3.) Check that all guards are secure and in place.
- 4.) Check the tension of the drive belts. They should be snug (about 1/2" deflection at center) but not so tight that they could damage expensive equipment.
- 5.) Check the fuel filter. It should look clear and ensure there are no leaks in the entire fuel system.
- 6.) Check and clean, if needed, the screen located on top of the inlet cyclone as shown on the previous page.

**WARNING: FUEL AND THE VAPORS FROM FUEL ARE EXTREMELY FLAMMABLE AND CAN BE EXPLOSIVE. FIRE OR EXPLOSION CAN CAUSE SEVERE BURNS AND EVEN DEATH.**

When adding fuel, turn off the engine and allow to cool for at least 2 minutes before removing the fuel cap. Fill the tank outdoors or in a very well ventilated area. Do not overfill fuel tank, there needs to be some expansion room. Fill only to the bottom of the fill neck or to the full line. Keep all fuel away from sparks and flames. If fuel spills, allow it to evaporate prior to starting the engine.

**WARNING: ENGINES GIVE OFF CARBON MONOXIDE, AN ODORLESS, COLORLESS AND POISONOUS GAS. BREATHING THIS CAN CAUSE NAUSEA, FAINTING OR DEATH.**

Always start and run engines outdoors. Do not start engine in enclosed area, even if the doors or windows are open.

Engines when running produce heat. There are parts of the engine and exhaust system that get extremely hot. Severe thermal burns can occur on contact, AND the heat may ignite combustible debris such as leaves, grass, brush, paper, etc.

[www.bruningenterprises.com](http://www.bruningenterprises.com)





**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

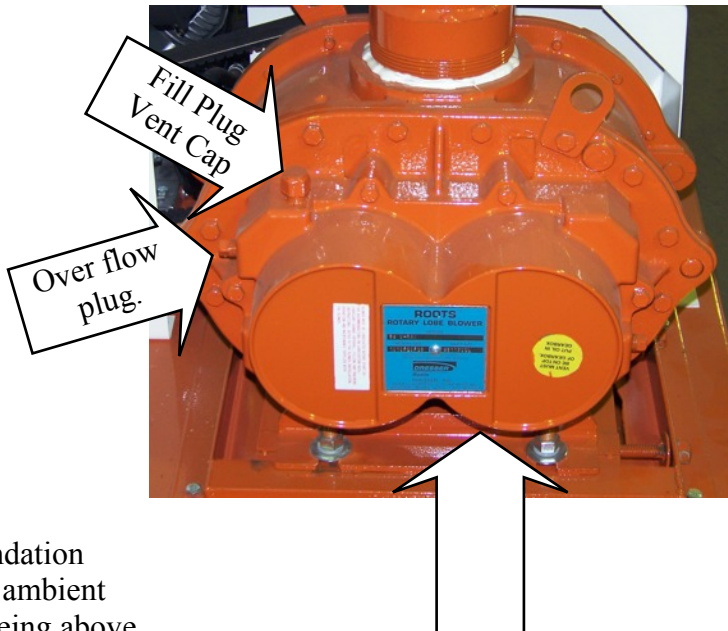
## End / Start of Season Service Instructions

### End of Season:

- 1.) Always shut off fuel petcock to off for any extended period of non service.
- 2.) Remove battery posts and clean, trickle charge the battery as needed for service next year.
- 3.) Add fuel stabilizer or drain fuel tank.
- 4.) Replace the fuel filter as needed.
- 5.) Remove cyclone from the top of the air lock, add corn oil to all areas of the air lock to prevent rust.
- 6.) Add a small amount of corn oil to the blower unit through the intake pipe and manually turn the blower.

### Start of Season:

- 1.) Reconnect battery post to fully charged battery. Positive first, then negative.
- 2.) Change the lubrication in the blower.



Oil recommendation is based upon ambient temperature being above 60 degrees.

Drain plug on bottom of the blower unit

Clean around all plugs before removing them.

Drain lube in a suitable container and dispose of properly.

Reinstall the drain plug.

Add a good 15W40 oil via the fill plug until oil wicks from the overflow plug.

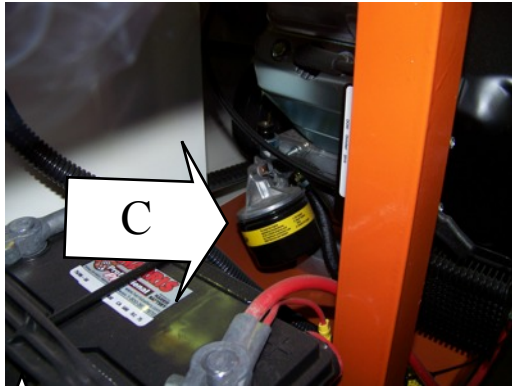
Reinstall all plugs, cleaning the vent plug screen, if equipped.

[www.bruningenterprises.com](http://www.bruningenterprises.com)

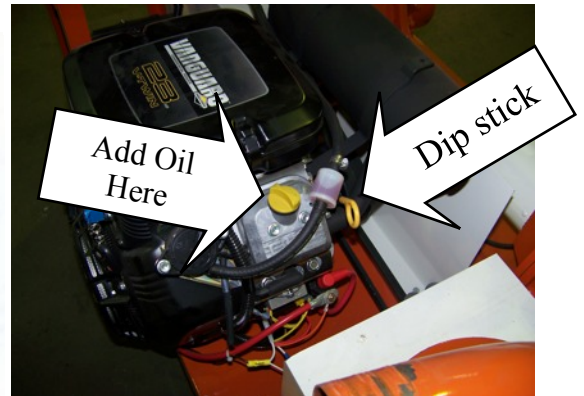
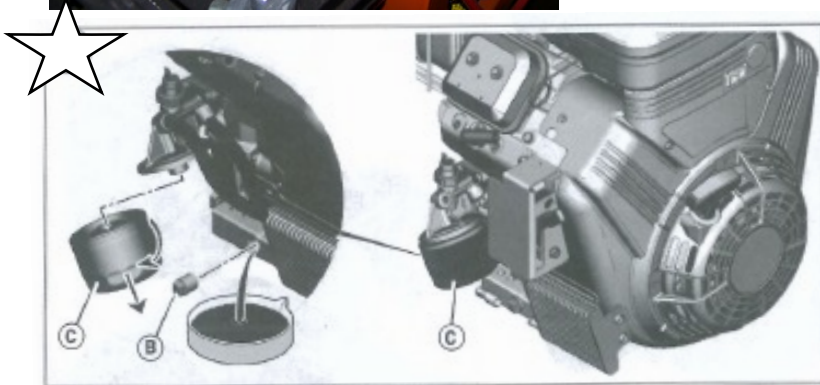


**Bruning Enterprises, Inc.**  
 7718 North State Road 9  
 Shelbyville, Indiana 46176 USA  
 (317) 835-7591 Phone / (317) 835-2814 Fax

## Start of Season Service Instructions 2



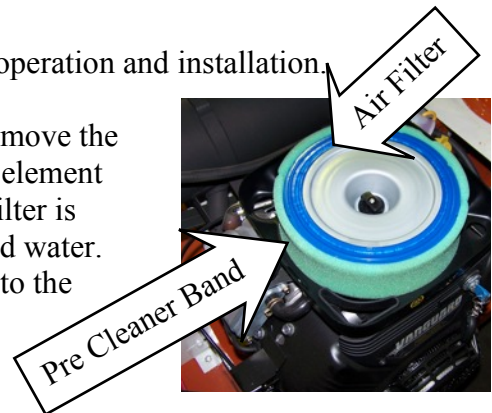
3.) Change engine oil and filter. With the engine off, but still warm, disconnect the spark plugs and remove the key. Remove the oil drain plug and drain the used oil into an approved container. After the oil has drained, reinstall the drain plug. Remove the oil filter (C) from the engine and dispose of properly. Before you install the new filter, lightly lube the filter gasket with fresh, clean engine oil. Install the new filter by hand until the gasket contacts the oil filter adapter block, then tighten one half to three quarter more of a turn. Add oil, start and run the engine, check for leaks. Shut off engine, wait 2 minutes, check oil level, fill as needed.



4.) Clean or replace the spark plugs, depending on last years usage. Briggs and Stratton recommends this every 100 hours or annually.

5.) Check the muffler and spark arrestor, if equipped, for proper operation and installation.

6.) Clean the air filter. Do not use pressurized air or solvents. Remove the center nut and retainer. Remove the air filter and the pre cleaner element from the air filter. Tap the filter on a hard surface gently, if the filter is very dirty, replace it. Wash the pre cleaner in liquid detergent and water. Allow it to air dry. DO NOT OIL. Assemble the dry pre cleaner to the filter element and reinstall the complete assembly.



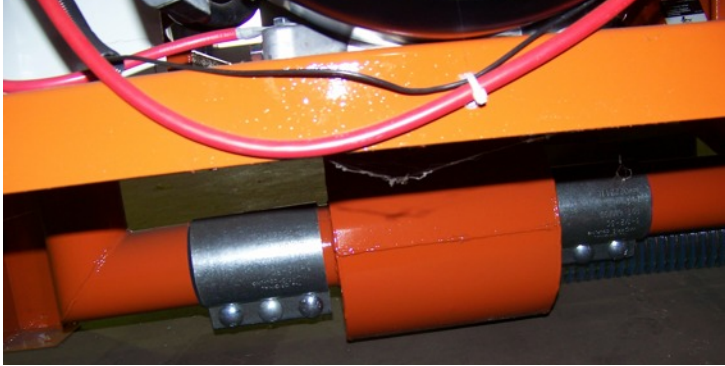
\*all pictures depict a 23HP engine. The 16HP is similar.

# www.bruningenterprises.com



**Bruning Enterprises, Inc.**  
7718 North State Road 9  
Shelbyville, Indiana 46176 USA  
(317) 835-7591 Phone / (317) 835-2814 Fax

## Start of Season Service Instructions 3



7.) Although unlikely, there have been service calls where items gather in the lower inlet muffler. These items range from rodents to large debris. You can not look through the muffler and see these. The only way to check this is to remove the couplings on each side of the muffler and turn it on the ends and tap it. We recommend you check this each season or if the performance of the unit suffers.

8.) Check the tightness and condition of the idler pulley.

9.) Lightly lubricate the drive chain running from the air lock gearbox to the airlock with oil.

**This machine is absolutely not designed to vacuum wet product. This machine MUST run with the metal screen in place at all times. Failure to follow these guidelines may result in shortening the life expectancy of the blower, and will void the warranty.**

### **Briggs & Stratton Additional Service Recommendation**

Every 250 hours of running service - Check valve clearance - See our web site under technical info for Briggs & Stratton for more information or take the unit to an authorized B & S service center.

Every 400 Hours of running service - Replace the fuel filter \* Clean the air cooling fins (more often in very dirty environments) \* Clean the air cooling system.

See our web site under technical info for Briggs & Stratton for more information or take the unit to an authorized B & S service center.

[www.bruningenterprises.com](http://www.bruningenterprises.com)