Seed Brake Instruction Manual

Here are some guidelines to help you install AIRGUARD™ correctly on your Air Seeder for optimum performance.

The **AIRGUARD™** Seed Brake is a new innovative product that will help you achieve perfect seed/fertilizer placement.

SUGGESTED SETTINGS

Please note, settings were made using a CNH Air Delivery system at 4700RPM fan speed. **Please note**, every machines' fan settings are different and that these settings are only guidelines to help you with adjustments.

AIR SPEED mph	AIR SPEED REDUCTION %	AIRGUARD™ CONFIGURATION
47	0	Without AIRGUARD™ Installed
27	43	Fully Closed No Shims Installed
17.3	63	Medium & Small Shim Installed
17.2	64	Large Shim Installed
14	70	Large & Small Shim Installed
13.5	72	Large & Medium Shim Installed
12	75	Large, Medium & Small Shim Installed
11	77	All Shims Installed

#109 4401 Blauson Blvd, Abbotsford BC, V3G 0A4 Canada
info@airguardproducts.com | 1.604.744.0070 | **airguardproducts.com**

REQUIRED TOOLS

Be sure to have the following tools available before you begin your initial installation.

- Hose cutter or strong utility knife
- Flat head screw driver or power drill with nut driver
- Two stainless steel hose clamps for each Seed Brake – which are supplied with the AIRGUARD™ Seed Brakes
- Silicone applicator gun
- All-weather silicone – which must be rain-ready and sun/freeze proof
- Shop towels
- 6" long piece of air seeder hose
- Wind meter

Note: When using AIRGUARD™ Seed Brakes with blockage monitors it is ideal to mount the blockage monitors below the seed brakes, but they can be used above the Seed Brakes as well. When mounting the Blockage monitor above the seed brake, the Exhaust port must have the cap screwed most of the way down (Only Medium and 1 small washer installed) This still balances the air flow in the system and removes a percentage of the air for improved seed placement.

STEP BY STEP INSTRUCTIONS

Visit airguardproducts.com/support for a detailed video on how to install this product.

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STEP 1

Choose a hose on your drill to install the first AIRGUARD™ Seed Brake. The centre section of the drill is the preferable location as it generally has the fastest air speeds. This will determine the baseline for your AIRGUARD™ Settings.

There are two places for installation, (a) at the manifolds, or (b) between the frame and the opener. If you install at the manifolds, note that sags in the hose or longer hose lengths may cause plugging issues with lower air speeds.

STEP 2

For most drills, it is recommended placing the AIRGUARD™ Seed Brake somewhere between the drill frame and the opener depending on your need and/or preference. On most disk drills, it should be mounted just above the seed tube or higher if necessary due to the chance of interference with the drill components.

STEP 3

Ensure that the Seed Brake does not interfere with the trip mechanism or hit the bottom of the drill frame when the trip is engaged.

STEP 4

To install the Seed Brake, mark the hose and use your hose cutter to cut the seed tube on a straight, perpendicular line at the location that the Seed Brake will be installed.

STEP 5

Place one stainless steel screw strap band onto the hose that runs from the manifold. Insert the hose into the entry port of the Seed Brake. Then place the strap band around the hose and entry port slot and fasten. The Seed Brake must be installed somewhat vertical and the exhaust port must be above the Inlet and Outlet ports.

STEP 6

Install a six inch piece of hose onto the exit port of the AIRGUARD™ for accurate wind speed measurement. Once the AIRGUARD™ Seed Brake is firmly fastened within the hose line, turn the air drill fan on.

STEP 7

Use the recommended fan speed and settings that are in your air seeder instruction manual. Make sure that the fan on your air cart has been running for at least ten to fifteen minutes to warm the hydraulic oil and ensure more consistent air flow measurements.

STEP 8

For most air seeders you will find that the factory settings will produce the following measurements:

Wheat - Factory settings: 45mph
AIRGUARD™: 25mph

Canola - Factory settings: 18mph
AIRGUARD™: 12mph

Note: These measurements are only a guideline. The air flow needed will vary depending on opener choice, soil type and seed being used. Trial and error is required to get it adjusted to the level that you desire.

STEP 9

To change the wind speed coming out of the AIRGUARD™, the washers on the exhaust port need to be adjusted. To increase wind speed, unscrew the exhaust port cap, remove the washers and replace the cap.

STEP 10

To decrease wind speed, unscrew the exhaust port cap and add washers. This allows more air to escape out the exhaust port.

STEP 11

Once a satisfactory wind speed is achieved, note the measurement, and use this as a guide to set the other hoses with AIRGUARD™ to the same wind speed. The first AIRGUARD™ installed will usually need all of the washers installed on the exhaust port as it has the fastest air speeds.

STEP 12

Finish installing AIRGUARD™ Seed Brakes on all of the remaining hoses. Adjust each AIRGUARD™ Seed Brake to match the first measurement. Plus or minus 2.5 miles per hour is an acceptable variance from one hose to another.

STEP 13

Once you have set each Seed Brake to the optimum airflow, complete the installation by connecting the lower hose from the opener to the AIRGUARD™ exit port, and fasten with a hose clamp.

STEP 14

Run product through your entire air seeder system out onto the ground to check that product flow is consistent on each opener.

There should be no seed bounce, and product should fall gently to the ground. A good rule of thumb is for the seeds to come out one inch away from the back of the opener, if you are using a rear facing opener.

STEP 15

Adjust the washers on the exhaust ports of the Seed Brakes if adjustment is needed based on the product flow.

Overall adjustment can also be made with the fan speed.

STEP 16

When you are satisfied with the performance of your drill, back the cap off a few threads on each unit. Place a small dab of silicone on the threads, then tighten the cap once again into the silicone. This will ensure that each AIRGUARD™ cap will not come loose during operation.

Congratulations! You are now ready to seed with the added protection of AIRGUARD™ Seed Brake Technology.

For more information or support on using AIRGUARD™, visit our support page at airguardproducts.com, or call 1-604-744-0070

Thank you for choosing AIRGUARD™.

AIRGUARD
SEEDING PRECISION