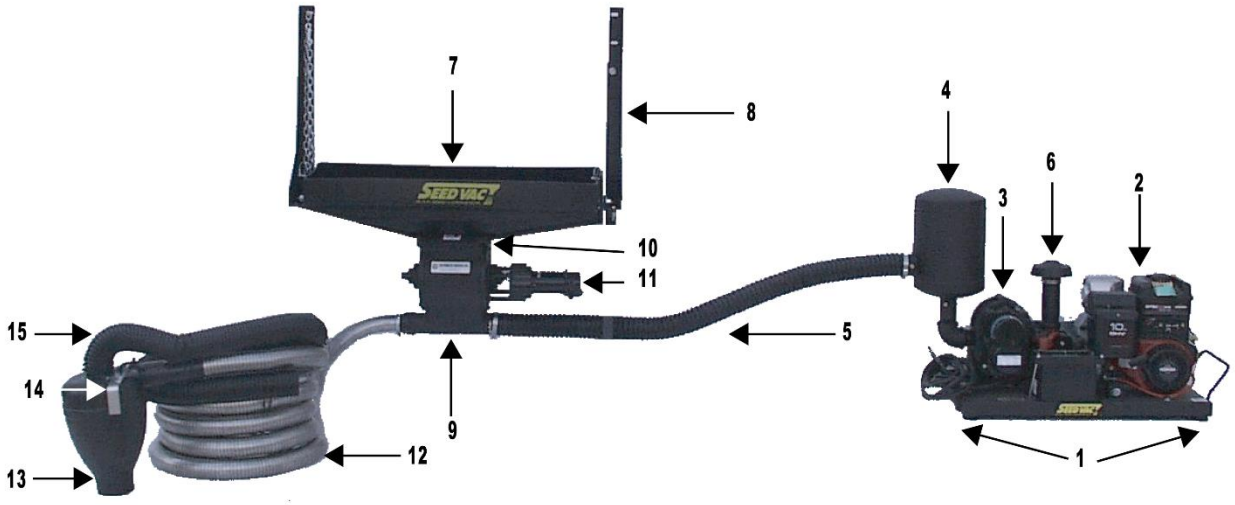
GET ACQUAINTED

KNOW YOUR MACHINE

The Seed Vac™ Bulk Seed Conveyor is designed for use in the field to convey clean bulk seed from bulk containers to the planter box by means of pressure air.

Before operating the Seed Vac™ Bulk Seed Conveyor, review the illustrations below so you become familiar with the components of the machine and their names.



1. **POWER UNIT:** Houses gas engine, blower and 12-Volt Group U1 battery (Not included).
2. **GAS ENGINE:** 11 HP Honda. Belt drives the blower and supplies current to the battery.
3. **BLOWER:** Produces pressure air to convey seed.
4. **QUIET-PAC SILENCER:** Silencer reduces blower noise emissions.
5. **AIR HOSE:** Delivers pressure air from the blower to the airlock inlet.
6. **RAINCAP:** Covers blower air intake.
7. **40" HOPPER:** Directs seed from gravity wagon or truck into the airlock.
8. **MOUNTING BRACKETS:** Mounts airlock and hopper to wagon or truck box.
9. **AIRLOCK**: Meters seed into the product hose.
10. **AIRLOCK SLIDE GATE:** Controls flow of seed into the airlock.
11. **ELECTRIC GEAR MOTOR (12-Volt DC):** Rotates the airlock.
12. **PRODUCT HOSE:** Delivers seed from the airlock to the delivery cyclone.
13. **DELIVERY CYCLONE:** Slows down and directs discharge of seed into the planter.
14. **POWER SWITCH:** Waterproof power switch provides on/off control. Starts and stops the seed flow.
15. **VENT HOSE:** Redirects air and dust away from operator.

INSTALLATION

Your Seed Vac™ Bulk Seed Conveyor is shipped to you on a pallet. Review the packing list to make sure all items are accounted for, and inspect components for shipping damage. If there is damage it is your responsibility to notify the shipper of damage within 72 hours.

 **CAUTION:** *Stand clear of the machine when it is being lifted. There is a dropping hazard. Lift the components with a properly rated forklift, front-end loader or jib crane that has a minimum lifting capacity of 500 pounds.*

1. MOUNT POWER UNIT ①

A box of mounting hardware is shipped with your Seed Vac™ Bulk Seed Conveyor.

In a pickup box: Secure the power unit in the pickup box as necessary for road travel.

On a gravity wagon: It is recommended that you make a subframe with sturdy angle iron or channel iron, bolted or welded to the wagon. Mounting the power unit on the rear of the gravity wagon is recommended so as to protect it during road travel. Install power unit using bolts long enough to pass through the frame and the subframe below. Use mounting hardware strong enough to support the weight of the power unit during travel and appropriate to the design of the wagon.

On a truck: An "L" bracket similar to the type used for mounting a fuel tank is recommended for truck mounting of the power unit. **Note:** The power unit comes with ten (10) feet of air delivery flex hose routed from the outlet of the blower to the inlet of the airlock mixing chamber. If additional lengths of flex hose are needed for mounting on a long truck, contact the factory. Install power unit using bolts long enough to pass through the frame and the subframe below.

On a trailer: Position the power unit in the center of the trailer bed to provide the most efficient connection to Q-Bit™ containers. Secure the power unit on the trailer bed as necessary for road travel or install power unit using bolts long enough to pass through the frame and the subframe below.

SET-UP AND OPERATION

2. MOUNT AIRLOCK / HOPPER ASSEMBLY ⑤

40" Hopper Assembly: Bolt the assembly to the mounting brackets using the 5/8" carriage bolts and C-Lock nut. Supporting the bottom of the assembly, lift up to determine the best location for mounting holes to fit the design of gravity wagon or truck you are using. Each mounting bracket should be secured to the gravity box or truck with a minimum of two (2) Grade 5 x 3/8" bolts with nuts, flat washers and lock washers per bracket. Space the mounting bolts for each bracket as far apart as possible for best load distribution. Also be sure to mount the assembly so that there is adequate ground clearance when the airlock is rotated down to its operating position.

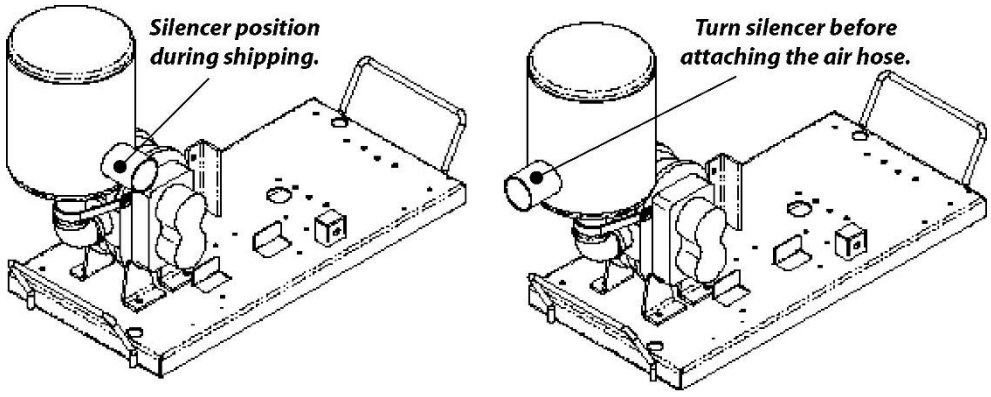
Adjust the placement of the hopper assembly in or out as needed. There should be 1" to 3" of hopper inside and underneath the gravity box or truck bed outlet. The fit should be snug to help prevent spilling of seed. Secure the transport chain on an upper mounting bracket bolt.

Q-Bit™ Adaptor: This assembly comes with four (4) holes and slots on the mounting brackets that line up with stud bolts on the Q-Bit container. Remove the locking pins and allow them to hang down on the chain. Holding the assembly by the tube on top of the hopper with one hand, and the lower handle with the other hand, line up the mounting brackets with the four (4) Q-Bit container stud bolts.

Hold the airlock assembly so it is tipped out 15° to 20°, position the mounting brackets over the stud bolts and allow the brackets to slide down about 1" over the studs. Then allow the airlock assembly to swing in flush with the face of the Q-Bit container. If stud bolts need adjustment, use the hex wrench provided. If it is necessary to center or adjust the assembly to the Q-Bit container outlet, the mounting brackets can be adjusted in or out by rotating on their threaded pivots. Secure the locking pins through the mounting bracket holes.

3. REALIGN THE QUIET-PAC SILENCER

The Quiet-Pac silencer should be realigned as shown.



4. CONNECT AIR HOSE ④ FROM POWER UNIT ① TO AIRLOCK/HOPPER ASSEMBLY ⑤

Standard 1-bolt clamp connection: Slide a loosened hose clamp over each end of the 10-foot air hose approximately 1" from each end. Slide an end over the blower outlet and secure the clamp. Slide the other end over the airlock inlet and secure the clamp. Make sure the hose is secured tightly so that there are no air leaks.

5. CONNECT PRODUCT HOSE TO AIRLOCK ⑧ OUTLET

For convenient transport of the product hose and cyclone, mount a J- or L-shaped hose hanger bracket on the side of the gravity wagon or truck to the left of the airlock / hopper assembly.

The power switch is ready to assemble to the cyclone handle using the supplied rubber boot / nut. Position the switch for right- or left-hand operation, according to your preference. After assembling power switch, secure power cord to the product hose with tie straps.

Standard 1-bolt clamp connection: Slide a loosened 1-bolt clamp over the end of the product hose approximately 1" from the end. Slide the end of the hose over the airlock outlet and secure the clamp, using a 13 mm open/box end wrench, or a socket and ratchet. Make sure the hose is clamped on tightly so that there are no air leaks.

Quick coupler connection: Align flanged ends carefully on the airlock outlet and tension quick coupler clamp for a secure and airtight connection. Be careful not to damage flanges. Note: Even alignment of the flanged ends is important to help prevent seed damage and achieve maximum performance.

6. CONNECT POWER CORDS FROM POWER UNIT ①

The power cords are supplied with snap together fittings. Connect one fitting to the airlock electric gearmotor. Connect the second fitting to the on/off switch cord that is strapped to the product hose. Note: If you have a longer than standard air hose and/or product hose, you will also be supplied with a power cord extension with snap together fittings.

7. PREPARE THE POWER UNIT ①

Install a new **12-Volt Group U1 battery** (not included) on the power unit frame, securing with the angle iron and two (2) bolts supplied. Connect and tighten the battery cables to their corresponding terminals. Seal the connections with an electrical contact sealant to help prevent corrosion.

Check all oil and fuel levels. The engine is shipped with oil, but without fuel. Fill the fuel tank. (Refer to the engine owner's manual for start-up recommendations.) The blower is shipped with oil; however you should double check oil level.

SET-UP AND OPERATION

START-UP AND OPERATION

CAUTION: *Never start or operate the Seed Vac™ Bulk Seed Conveyors indoors.*

Position the wagon or truck a few feet past center and parallel to the planter. Uncoil and straighten product hose. Hang the cyclone on the far right end planter box, making sure the product hose is as straight as possible and not tightly coiled. Check to be sure the power switch on the cyclone is switched OFF.

If you are unloading with a 40" hopper, unhook the transport chain on the airlock/hopper assembly and rotate the airlock down to it's operating position. If you are unloading with a Q-Bit™ Adaptor, the airlock is already in it's operating position.

Start the engine and warm up for two (2) minutes. Push the power switch ON and check to make sure the airlock is rotating smoothly and in the correct direction. Bring the engine to full operating RPM. Open the slide gate on the wagon, and then open the airlock slide gate.

You may need to adjust the airlock slide gate to obtain an even flow of seed. The setting on the slide gate will vary depending on type and density of seed, as well as length of product hose.

Hold the cyclone over the planter box and push the power switch ON to start seed flow. Push the power switch OFF three (3) seconds before the box is full to help prevent overfilling. Continue this procedure, moving from right to left until all the planter boxes are full. Moving from right to left provides easier, more efficient handling of the product hose and cyclone.

vacuum attachment installation and usage

Remove two (2) snap pins from each side of the hopper and pull off the plastic hopper. Place vacuum box on airlock and slide locking hooks around the rear airlock flange. Center vacuum box on the airlock. Pull the vacuum box forward. Apply downward pressure on the vacuum box and tighten to the airlock using the thumbscrews.

Connect vacuum lines to the vacuum box. Remove the rain cap from the filter canister (located on the blower) and connect the 2 ½" vacuum line.

Start the Seed Vac™ Bulk Seed Conveyor as normal. Before suctioning grain remember to start the airlock using the toggle switch on the discharge cyclone. If the grain surges during conveying, introduce more air at the end of the suction line.