

We would like to congratulate you on the purchase of your new backpack sprayer, **THE PISTON**, cylinder and piston pump sprayer that allows you the easiest, most comfortable way of carrying out your farm and garden projects.

As a new owner of this skillfully engineered sprayer, we strongly recommend you carefully read and follow all the information on this sheet before use, and after use, and then save for future reference.

HOW TO ASSEMBLE

1. Attach spray wand to spray gun and tighten firmly.
2. Take pump handle Kit 7EK-2 (tube) and insert into the tube on the pump lever Kit 5EK-2 ("T" shape lever on sprayer). You will notice holes drilled through both sides of both the pump handle and the pump lever. Align these holes, take the "R" pin provided and place through the holes. This affixes the handle in place and is ready for use. For storage reverse process and then place "R" pin through the pump lever Kit 5EK-2 to keep from losing "R" pin.
3. Instructions for installing shoulder strap plastic buckle:
First put the sprayer on a hard flat surface, take the white plastic buckle and while holding the sprayer up slightly, place buckle under the tubular metal frame. Slowly push down forcing the frame into the buckle. Repeat the same procedure for other side.

HOW TO PREPARE YOUR UNIT FOR USE

1. Remove cap.
2. Mix solution in a separate receptacle, following manufacturers directions on the container.
3. Pour pre-mixed solutions into sprayer and cap.
4. Place sprayer on back and pressurize tank by pumping approximately 10 to 15 times. **For best results, the sprayer should be pumped every 5 seconds on a continuous basis. This will maintain your spraying pressure. If you do not pump, you will not have pressure to spray.**
5. Always oil the seal on cap of unit as well as the check valve, this will extend life of seal and is important for obtaining proper seal with no leaks.
6. A unit that has been used with herbicides should never be used to spray insecticides, unless the sprayer has been properly cleaned and all other chemicals neutralized. Failure to do this could cause you to kill plants that have been sprayed. Consult with the manufacturer of the chemicals in use to obtain proper instructions.

HOW TO CLEAN AND MAINTAIN

1. Remove cap and pour out remaining solution, then rinse all parts thoroughly with clean water.
2. Leaving approximately 1/2 gallon of fresh water in tank, pressurize and flush pumping system by depressing trigger at least 2 minutes, then drain all remaining water.
3. Use a neutralizing agent (according to manufacturer's directions) to clean and flush the unit.
4. Always store tank clean and empty in a dry, shaded location.

CAUTIONS

Failure to follow manufacturers recommendation on use and care of unit will void any expressed or implied warranty.

Please read and follow all instructions before using sprayer.

- Before using, filling or cleaning any sprayer, read all parts of the operating instructions.
- Make sure to set up the sprayer exactly as explained in the printed operating instructions, reminder tags and/or stickers.
- Wear protective clothing, respirator, gloves, eye protection, etc. whenever using, filling, or cleaning sprayer.
- Periodically re-grease lid gasket as well as lid vent and pump cylinder, where applicable.
- To ensure good performance, keep lid vent free of obstruction. Before and after each use, make sure all connections are well tightened. Service and replace worn parts as required.
- Read and follow all instructions of the chemical suppliers.
- As a rule, mix your chemicals in a separate container from which to fill the sprayer. Do not mix formulas inside the sprayer. Where an exception is made (e.g. with liquid fertilizers), fill sprayer with water BEFORE adding the active ingredient.
- Always sift formula through the screen. If there is no built-in strainer, use a screened funnel.
- Never fill the sprayer with hot liquids. Max. 30°C, or 85°F.
- This sprayer is made to handle agrichemicals in their usual water or oil solutions. Do not use flammable, corrosive or caustic solutions.
- Never use gasoline or other flammable materials.
- Before cleaning or servicing the sprayer, allow all pressure to escape. Do not store or transport sprayer under pressure.
- After each use, wash the sprayer—including hose, lance and shut-off valve—with plenty of fresh water. Unless spraying is to be continued within hours, drain chemical formula and thoroughly rinse the tank and all liquid ducts.
- Never store chemicals in your sprayer for any length of time.
- Use the sprayer only for the kind of jobs for which it was designed. When in doubt, ask your dealer.
- Do not leave the sprayer in reach of children or persons not qualified to handle it in proper fashion.
- When not in use—and especially during prolonged storage—keep your sprayer in a protected place away from direct solar heat.
- Make sure the spray hose loops freely without kinking or squeezing.
- Always use SP Systems original replacement parts.

PISTON0396



IMPORTANT NOTICE

This sprayer is equipped with an external piston pump system, which generates pressure by the up and down motion of a piston. In any such system, friction between the piston and the cylinder causes normal wear and tear. This wear is accelerated by the presence of chemicals and abrasives such as sand and wettable powders. In addition, the piston collar is exposed to direct chemical attack. All these factors contribute to leaking of the pumping system.

Therefore, proper maintenance of your sprayer is essential. To decrease the amount of wear on the cylinder, we recommend that only clean water be used, and that the water be filtered to remove sand and dirt. The rubber piston collar in this unit -- while made of a unique, high-grade Viton that is highly resistant to chemicals -- will also begin to deteriorate after repeated exposure to strong chemicals. Thorough cleaning and neutralizing of your sprayer after each use will help extend the life of the piston collar, rubber seals and gaskets, and the sprayer itself.

Regular inspection of the piston collar, cylinder, seals and gaskets is strongly advised; if deterioration is seen, the affected parts should be replaced immediately with **SP Systems** spare parts. (Note: rubber seals and gaskets require periodic maintenance, and are not warrantable once they have been in contact with chemicals.)



NOTA IMPORTANTE

Esta aspersora está equipada con un sistema de bombeo externo, el cual genera presión a base de movimientos hacia arriba y abajo. Con cualquier unidad de este tipo, la fricción entre el pistón y el cilindro causa un desgaste. Este desgaste se acelera con la presencia de químicos y abrasivos, como arena y polvos humectables. Además el pistón de hule está expuesto a un ataque químico directo. Todos estos factores contribuyen a una eventual fuga del sistema.

Por consiguiente, un mantenimiento correcto de la unidad es esencial. Para disminuir el desgaste del cilindro, le recomendamos usar agua limpia y/o filtrada, para eliminar la tierra y arena. El pistón de hule de esta unidad, aunque está fabricado en Vitón de alto grado de calidad, además de ser muy resistente a los químicos, también sufrirá un deterioro después de ser expuesto a los productos químicos. Si usted limpia y neutraliza su aspersora después de cada uso, ayudará a extender la vida útil del pistón, los sellos de hule así como la unidad misma.

*La inspección rutinaria del pistón de hule, cilindro y empaques de hule es recomendada; si se descubre algún deterioro en alguna pieza, esta deberá ser reemplazada de inmediato con refacciones **SP Systems**. (Nota: Los sellos y empaques de hule requieren de un mantenimiento rutinario y no están cubiertos por la garantía una vez que han sido expuestos a los productos químicos.)*



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