



SOLO® Owner's Manual, Spare Parts List & Service Manual

WARRANTY: 454, 456, 457 Compression Sprayers

SOLO model 454, 456 & 457 sprayers are covered by SOLO's 5-YEAR LIMITED WARRANTY. SOLO manufactured parts which fail due to defective material or workmanship will be repaired or replaced without charge. Contact SOLO Inc. for full details and complete warranty information.

WARNING:

Chemicals can be harmful to individuals and the environment if improperly used. In addition, some chemicals are caustic, corrosive, or poisonous and should be avoided. Read warnings and chemical manufacturer's instructions. SOLO high density polyethylene sprayers are fitted with Viton® seals which are resistant to a wide variety of agricultural and household chemicals; however, care should be exercised to ensure that sprayer components are clean, functioning properly, and in a good state of repair before and during use. If in doubt about a particular chemical, check with manufacturer. If you suspect or observe indications that the material may be unsafe in a SOLO sprayer...**STOP!** Do Not Use or Apply Chemical. **ALWAYS WEAR RUBBER GLOVES, SAFETY GOGGLES AND APPROPRIATE PROTECTIVE CLOTHING.**

- Read and follow operating instructions.
- Do not fill sprayer over maximum fill mark. Releasing pressure in an overfill condition can cause harmful venting of sprayer contents.
- Relieve pressure only with sprayer upright. Venting of sprayer contents can occur if liquid is over bottom of relief valve.
- Do not exceed 45 psi pressure.
- Do not fill with flammable materials.
- Do not modify sprayer or pressure relief valve.
- Never spray in the direction of humans, animals or property which might be injured or damaged by spray formula.
- Do not use disinfectants, solvents or impregnating agents unless first tested to ensure they are not harmful to the environment and sprayer.
- Do not use liquids with a temperature above 120° (45°C).
- Remember that a sprayer with liquid is a significant amount of weight (8 lbs. per gallon). Use caution when bending, leaning or walking. Bend only at the knees and support yourself as required to insure personal safety.
- Do not use acid, caustic or potentially injurious chemicals.
- Do not inflate sprayer without liquid in the tank.
- Do not climb on ladders, trees or other unsteady or potentially unsafe structures.



SAFETY HINTS:

- At the time of manufacture of this sprayer, we are not aware of any approved plant protection chemicals which would adversely affect this sprayer when applied in their usual concentration.
- Observe the recommendations of the chemical manufacturer.
- Prior to every use, ensure the proper functioning of the pressure relief valve.
- **Prior to removing any part of the sprayer pull the pressure relief valve (2) to release any pressure in the tank.**
- **Wear rubber gloves, safety goggles and appropriate protective clothing.**

Removing Adjustable Nozzle

Unscrew the nozzle cap (1) from the nozzle body (3). This is best accomplished while the retaining nut (2) is securely fastened to the elbow (6). Next, unscrew the retaining nut (2). Push the nozzle body (3) out of the retaining nut (2). The filter (5) will come out with the body. To re-install the nozzle, reverse the above instructions.



Assembly Instructions for Wand

1. Check that the O-ring is on the non-threaded end of the wand.
2. Insert the wand into the open end of the shut-off valve.
3. Tighten the screw cap.

CUSTOMER SERVICE COMMITMENT FROM SOLO'S SERVICE DEPARTMENT

In the event the sprayer you have purchased has missing or damaged parts, please call 1-800-765-6462, 9:00 AM—5:00 PM EST. SOLO's goal is to ship you replacement parts within 48 hours of processing your order.

In order to assist your service representative, please have the following information available: sprayer model number, part description and part number. A parts list is included in your owner's manual.

SOLO is committed to your satisfaction and is continuing its efforts to earn your future business.

OPERATION:

- Before using sprayer with chemicals, fill sprayer with fresh water to assure that you have it properly assembled; pressurize and then practice spraying. When thoroughly familiar with sprayer operation, follow normal operating procedures.
- Turn pump handle counter clockwise to remove pump.
- Fill tank with premixed formula up to desired level. Do not exceed maximum fill mark. Observe recommendations of chemical manufacturer.
- Retighten pump.
- Pump to a maximum 45 psi/3 bar pressure. The valve stem on the pressure relief valve will rise up revealing a red mark indicating 45 psi.
- Start or stop spraying by squeezing or releasing hand control lever (3).
The spray pressure can be monitored with an optional pressure gauge.
- Prior to every removal of pump (2), release pressure first by pulling up on the pressure relief valve stem.

CLEANING:

- Carefully clean sprayer after every use.
- Soap and water may be used to clean tank.
- Clean the hose and spray tube by flushing with water.
- Follow the recommendations of the chemical manufacturer for disposing of waste water and chemicals.
- Do not use aggressive cleaning agents or abrasives.



MAINTENANCE:

- Prior to storage, clean and empty sprayer.
- Always store the sprayer in a dry area, protected from freezing, heat and sunlight.
- Lubricate O-ring in pressure relief valve with petroleum jelly on a regular basis. Pressure relief valve is disassembled by removing it from the tank and pulling the body of the valve out of the screw cap.
- Should pumping action become difficult, remove the pump from tank, remove pump piston (4) from pump cylinder (6) and grease the O-ring (5) of the pump piston with petroleum jelly. NOTE: Once tank lid is removed, the pump handle "piston" and "cylinder" (pump body) are disassembled simply by pulling apart. See Figure 6, Page 5.
- Only use SOLO original parts and see your SOLO dealer in case of any problems. In the interest of technical progress, we reserve the right to change technical specifications without prior notice or obligation.

Pump Maintenance - NOTE: Pump pressure sealing is accomplished with an O-ring on the pump piston (4) which moves within the cylinder (6).



Periodically this O-ring should be greased with a non-water soluble grease. If worn, it should be replaced. A small umbrella valve at the bottom of cylinder prevents the formula from entering the cylinder. No maintenance is required other than periodic replacement as wear occurs.

Tank Lid - A small amount of non-water soluble grease on tank lid threads and gasket will make tightening and loosening easier.

Regular Inspection - Inspect and replace worn or damaged parts promptly. Pay particular attention to tank lid gasket, pressure relief valve and seal, inflation valve (if fitted), O-rings and seals throughout sprayer. Regular lubrication of O-rings and seals is recommended.

POSSIBLE USES OF SPRAYER:

Plant Feeding and Protection - A variety of spray tips enables user to perform foliar feeding or to apply fungicides and pesticides effectively.

Herbicides - may be applied to reduce pesky weeds and plants; however, avoid using same sprayer for plant feeding or protection.



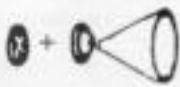

Indoor Use - Sprayers may be used to apply detergents, vinegar, cleaning solutions, warm water (up to 120° F) and other non-toxic household cleaners and maintenance liquids. Carpets, walls, glass, floors, ceilings and other surfaces can be treated.

Do not use sprayer which has previously been used with herbicides, pesticides or toxic chemicals indoors.

Outdoor Use - Window cleaner, detergent, general purpose cleaning solutions, certain wood preservatives, waxes, water proofing and diluted household bleach (do not exceed 25% solution) are among the many things SOLO sprayers can apply. Avoid using sprayer for cleaning and other applications once it has been used for plant protection or herbicide spraying.

OPERATING FEATURES:

Nozzles - Your SOLO sprayer is standard with nozzle arrangements which provide several spray patterns.

Item		Pattern	Application	Part #
Flat spray tip		Flat	Row treatment	4074263
Nozzle tip (jet stream)		Stream	Spot & longer range	4074758
Nozzle tip and Swirl plate		Hollow Cone	Shrubs & bushes	4074756 and 4074758
Plastic Adjustable Nozzle		Variable	Spot, shrubs & bushes	4900527

WILL THE PLASTIC MATERIAL LAST?

Only high-grade polyethylene is used. The material is chosen for high molecular weight, high-impact strength, and excellent resistance to chemicals and stress. Ultraviolet inhibitors are used in the material to reduce deterioration caused by sunlight.

HOW HEAVY IS THE UNIT?

Compression sprayers weigh approximately 5 1/2 lbs.

CAN I USE WEEDKILLER AND INSECTICIDE IN THE SAME SPRAYER?

In theory you can, if the sprayer is thoroughly cleaned out with a bleach water solution of 1:25. In practice, the use of both type of chemicals in the same unit is not recommended as the risk to plants can be high. Use caution when handling any type of chemicals and when cleaning your sprayer. Do not mix cleaning agents.

WHAT SPRAY NOZZLE SHOULD I USE?

A flat spray nozzle is supplied for spraying paths, garden beds, and general area spraying. A cone nozzle is also supplied for spot spraying and for the treatment of bushes and small trees. For spot spraying, simply remove swirl plate from behind nozzle tip. Save the swirl plate for future use. Available as an option is a reflux filter with a build-in check valve (27 00 316) which opens at 5 psi and closes at 4 psi. This virtually eliminates the dripping of fluid still contained in the spray wand. A wide selection of nozzles such as deflector, adjustable, and anti-drift nozzles are available.

CAN I DO SPOT SPRAYING?

The shut-off valve on the SOLO sprayer is well suited for spot spraying. It's almost effortless! The shut-off valve handle incorporates a clip which holds the trigger valve open for area spraying without tiring the operators hand. A pressure gauge may be added with increments from 0 to 6 Bar (0-90 psi).

CALIBRATION OF SOLO COMPRESSION SPRAYERS

The output of the sprayer should be checked by collecting and measuring the spray liquid emitted during one minute. Maintain steady pumping on the pump handle while measuring. Having determined the output from the nozzle in gallons/minute, the rate per unit area treated can be calculated knowing the swath, width and walking speed.

1. Determine the nozzle's rated capacity. See back page of **SOLO** parts list for nozzle ratings. Get the capacity in gallons/minute at the desired pressure. Test the delivery of the nozzle. Spray for one minute and collect the spray.

$$\text{Gal./min} = \frac{\text{Oz. collected/min.}}{128 \text{ Oz.}}$$

2. Compute the area covered in square feet per minute. Select a comfortable walking speed and figure how many feet per minute you walk. A convenient fast walk for some is 2.5 mph, but this may vary. One mile per hour equals 88 feet per minute. An easy way to calculate is to simply measure the distance you walk in one minute.

$$\text{Sq. ft./min.} \times \text{swath width (in ft.)}$$

3. Compute the gallons per acre. The above information is used to compute gallons of spray that will be applied per acre.

$$\text{Gal./acre} = \frac{\text{gal./min.} \times 42560 \text{ sq. ft./acre}}{\text{sq. ft./min.}}$$

Service and Repair Section

HANDHELD SPRAYER TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Difficulty in Moving Pump Handle	<ul style="list-style-type: none"> • Dirty Cylinder Wall • O-Ring on Piston Swollen (Not Cleaned Properly) • No Lube on Piston/Cylinder • Check Valve Not Sealing or Missing 	<ul style="list-style-type: none"> • Remove Piston, Clean and Replace • Replace O-Ring • Lubricate with Heavy Grease • Inspect & Replace if Necessary
Low Pressure & Resistance During Pumping	<ul style="list-style-type: none"> • Damaged O-Ring in Pressure Relief Valve • Worn or Damaged O-Ring on Piston • Tank Cap Not Tight • No Lube on Piston Cylinder 	<ul style="list-style-type: none"> • Replace O-Ring • Replace O-Ring • Tighten Cap • Lubricate Piston, O-Ring and Cylinder
Leaks From End of Spray Wand Leaks From Inside Cylinder	<ul style="list-style-type: none"> • Worn or Damaged O-Ring in Shut-Off Valve • Worn or Damaged Umbrella Valve at Bottom of Cylinder 	<ul style="list-style-type: none"> • Rebuild Shut-Off Valve • Replace Umbrella Valve
Leaks Under Cap	<ul style="list-style-type: none"> • Damaged or Missing Gasket • Screw Cap Not Tight 	<ul style="list-style-type: none"> • Lubricate or Replace Gasket • Pressurize Unit, Tighten Caps Until Leaks Stop
Leaks From Shut-Off Valve	<ul style="list-style-type: none"> • Worn, Damaged or Loose Fittings 	<ul style="list-style-type: none"> • Tighten Fittings and Replace Worn Parts
Leaks from Hose	<ul style="list-style-type: none"> • Worn, Damaged or Loose Fittings 	<ul style="list-style-type: none"> • Tighten Fittings and Replace Worn Parts
Pressure Relief Valve Sticks	<ul style="list-style-type: none"> • Lack of Lubrication or Contaminated Relief Valve Assembly 	<ul style="list-style-type: none"> • Clean and Lubricate Pressure Relief Valve
Air Leak - Air Coming Out Between the Two Halves of the Pump Support	<ul style="list-style-type: none"> • Tank Cap Not Tight • Gasket Twisted or Leaking Lubrication • Tank Lip Damaged 	<ul style="list-style-type: none"> • Tighten Tank Cap • Straighten Gasket and Lubricate with Grease • Repair or Replace Tank

Note: Once a repair is completed, fill the unit with clear water, pressurize and check for leaks. If the sprayer leaks, **do not use**. Repair leak and recheck.

DISASSEMBLY & REPAIR - SPRAYER ASSEMBLY

1. If the sprayer will not hold pressure, fill the sprayer to the neck with water. Replace the cap and pump up sprayer. Note: USE CAUTION! Filling the sprayer this full makes it very easy to pump up to the maximum pressure. (Approx. 4 pumps). The pressure relief valve is in the water and will therefore spray water when it releases. You will be able to observe a leak when water is being released. (See Figure 1) If you observe water on the outside of the sprayer, check for damage at the site of the leak.
2. If the leak is at a connection, try to tighten the screw cap (hand tighten only). If that fails, remove the screw cap and check the sealing surface to make sure that it is flat, smooth and the seal or O-ring is undamaged. Retighten. (See Figure 2)
3. When reassembling the connections, especially the hose, make sure the O-ring is seated before hand-tightening the screw cap. (See Figure 3)
4. The pressure relief valve is removed by unscrewing it from the tank. Once removed, the lower housing pulls off to access the O-ring on the stem (A). When replacing this O-ring, make sure it is seated in the recess on the stem. Lubricate stem before reassembly. (See Figure 4)

Figure 1



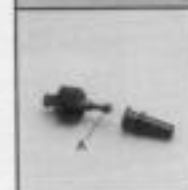
Figure 2



Figure 3



Figure 4



5. If the pump fails to offer resistance when pumping, check the umbrella valve (A) on the bottom of the cylinder to make sure that it is in place and sealing. The umbrella valve is removed by pulling it out. The umbrella valve is replaced by inserting into the hole in the bottom of the cylinder.
6. The pump piston is removed from the cylinder by pulling the two apart forcefully. The large gasket at the top of the cylinder will hold the cylinder in the red cap. Turning the cylinder counter-clockwise while holding the red cap and pulling will help separate the two. (See Figure 6)
7. To replace the O-ring on the plug (A), remove the plug by prying it out with a screwdriver. Replace the O-ring and lubricate. Reassemble by pushing the plug in until it is flush with bottom of the pump piston. The outer O-ring can be replaced if damaged or worn. Lubricate it before it is reassembled into the cylinder. (See Figures 7 and 8)
8. To replace the pump piston, remove the cylinder supports by pushing them out of the red cap. Once the pump piston is replaced, the cylinder support is snapped back into place. (See Figure 9)
9. When reassembling the pump cylinder to the pump piston, make sure that the gasket (A) does not get twisted. This will cause the sprayer to leak. It is important to keep this gasket lubricated with Vaseline® or SOLO Superior Grease (Part #9850). Note: The cylinder is shown removed from the tank cap for clarity. To ease the assembly, drop the cylinder into the neck of the sprayer tank and then screw the cap assembly on. (See Figure 10)
10. Remove the shut-off valve from the hose. Remove and replace the O-ring on the hose connection. Reinstall the shut-off valve. (See Figure 11)

Figure 6



Figure 7



Figure 8



Figure 9



Figure 10



Figure 11



DISASSEMBLY & REPAIR - THE SHUT-OFF VALVE

1. Complete Shut-off valve. (See Figure 12)
2. To remove valve core, you must first disassemble the handle. Remove the retaining pin (C) by squeezing the notched end and pushing through the handle. Slide the handle off the valve core. (See Figure 13)
3. With the handle removed, unscrew cap which retains tension spring and push out valve core (C). Replace worn parts. Lubricate the O-rings and reassemble in reverse order. Note: The valve core in picture has been painted white for clarity.

Figure 12



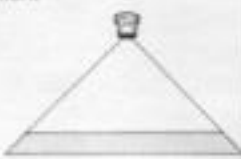




Figure 13



Figure 14





















Nozzle Tip Specifications

Specification	Order Number	Spray Volume		Pressure		Angle	Applications
		l/min	US gal /min	atu atm	psi		
Flat Spray Tip	4074263*	0.88 1.25 1.53	.23 .33 .40	1.0 2.0 3.0	15 29 44	120° 120° 120°	Area and row treatment 
Flat Spray Tip	0065210	0.46 0.64 0.78	.12 .17 .21	1.0 2.0 3.0	15 29 44	80° 80° 80°	
Adjustable Tip - Brass	0610410-P	Tree Spraying (adjustable spraying pattern)					
Full Cone Tip	0065212					30°-50°	Game repellants of high viscosity
Full Cone Tip	0065213					30°-50°	Game repellants of low viscosity
Full Cone Tip	0065214						Game repellants
Hollow Cone Tip 1 mm orifice	4900209	0.4 0.55	.10 .15	1.0 2.0	15 29		Shrubs, bushes 
Hollow Cone Jet 1.4 mm orifice	4900252	0.64 0.91 1.11	.17 .24 .29	1.0 2.0 3.0	15 29 44	50° 65° 65°	
Hollow Cone Jet 1.8 mm orifice	4900322*	0.88 1.25 1.53	.23 .33 .40	1.0 2.0 3.0	15 29 44	55° 70° 72°	
No-Drift AN 0.5 rose	4074383	0.23	.06	1.0	15	90°	Mainly for herbicides at low pressure
No-Drift AN 1.0 orange	4074385	0.28 0.38 0.46	.07 .10 .12	0.4 0.7 1.0	6 10 15	100° 100° 100°	
No-Drift AN 2.0	4074386	0.55 0.76 0.91	.15 .20 .24	0.4 0.7 1.0	6 10 15	100° 100° 100°	
No-Drift AN 2.5	4074514	0.72 0.95 1.14	.19 .25 .30	0.4 0.7 1.0	6 10 15	110° 110° 110°	
No-Drift AN 5.0	4074513	1.80 1.90 2.28	.48 .50 .60	0.4 0.7 1.0	6 10 15	120° 120° 120°	The XAN 2 nozzle is suited for low drift and water saving application of herbicides which tend to foam
Foam Nozzle	4900397	0.76 0.90 1.01 1.10	.20 .23 .26 .29	3.0 4.0 5.0 6.0	45 60 75 90		

*Standard equipment

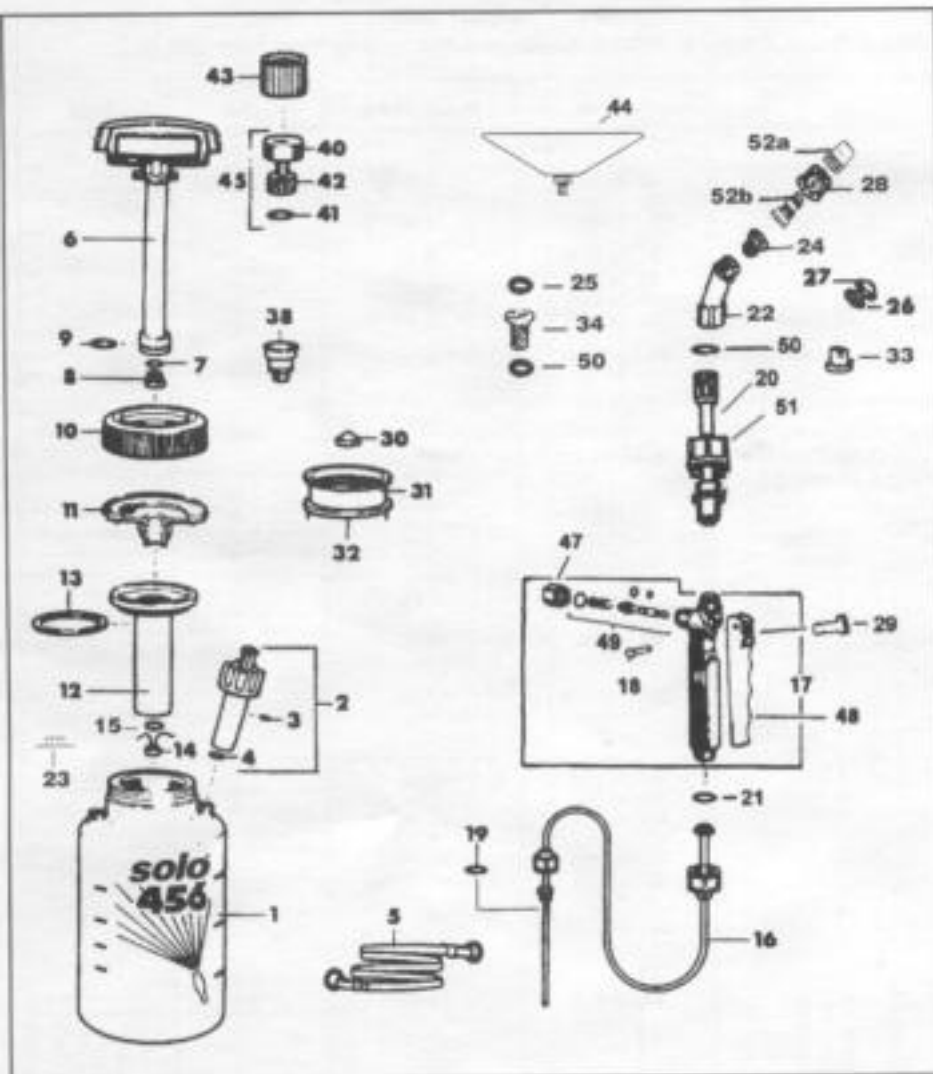
SOLO[®] ORDER FORM

Order parts and accessories from your **SOLO** dealer. If there is no local dealer, use this form to order from **SOLO**.

Item Name/Description	Part No.	Retail Price	Qty.	Total
Nozzles				
 Flat Spray Nozzle - surface area & row treatment	40 74 263	2.00		
 Sprayer Elbow and Nozzle Assortment	06 10 408-P	12.95		
 Wide Angle Flat Polijet Nozzles - Mainly for herbicides at low pressure. At 15 psi they deliver:				
60 GPM	40 74 513	2.40		
30 GPM	40 74 514	2.40		
24 GPM	40 74 386	2.40		
12 GPM	40 74 385	2.40		
 Elbow Nozzle Assembly	49 00 258N	6.35		
 Double Spray Nozzle - For double row application spraying in two directions simultaneously.	49 00 100	14.95		
 Brass Adjustable Spray Nozzle Kit - (includes O-Ring and Screw Cap for tree spraying (from fine misting to a jet stream).	06 10 410-P	8.75		
Brass Adjustable Spray Nozzle	49 00 207	6.25		
Plastic Adjustable Nozzle	49 00 527	4.25		
Hollow Cone Nozzles - for shrubs & bushes:				
1.4 mm	49 00 252	2.85		
1.8 mm	49 00 322	2.85		
 Swirl Plate	40 74 756	1.25		
 Foam Spray Nozzle - For low drift & water saving application of herbicides which tend to foam.	49 00 397	19.95		
Nozzle Assortment	06 10 456-P	12.95		
Extension Tubes and Spray Wands				
 20" Spray Wand	49 00 230	9.95		
20" Extension Tube	49 00 420	7.10		
20" Brass Spray Wand	49 00 421	11.95		
27" Spray Wand	49 00 319	8.90		
60" Brass Spray Wand	49 00 396	16.75		
40" Brass Telescoping Wand	49 00 435	19.95		
Note: Extension tubes screw on to wands. Spray wands attach to shut-off valve.				
Spray Booms				
 2-Nozzle Spray Boom - Attaches to wand. Sprays two rows at once. (Total width 33", Distance between nozzles 24")	49 00 514	19.95		
Specialty Items				
SOLO Superior Grease	9850	2.95		
 Pressure Control Gauge Kit - For no-drift spraying of herbicides. Helps operator maintain pressure below 15 psi to help prevent damage to crops. Use with shut-off valve 48 00 170	49 00 356	14.95		
 Pressure Limiting Valve - Keeps pressure at desired level for drift control. Interchangeable springs are color coded for 5, 10 and 15 psi.	49 00 183	29.90		
 Drift Guard - Complete drift control for herbicide applications in berry, flower, vegetable, cotton & other applications	43 00 430	12.80		
 Check Valve - Prevents spray tip from leaking when not in use.	27 00 316	3.25		
 Organic Liquid Spray Kit - Strainer & Spray tip for spraying organic liquids.	49 00 323	9.95		
 Strainer	42 00 166	5.25		
 Shut-Off Valve	48 00170	14.85		
Shut-Off Valve, Spray Wand & Elbow Nozzle Assy.	49 00 170N	24.95		
 Pump Repair Kit - Contains original equipment O-rings to renew all sealing surfaces on 454, 456, 457 sprayers.	49 00 405-K	4.95		
Wand Repair Kit	06 10 411-K	9.95		
Sprayer Repair Video	998 SPVID	3.95		
454/456/457 Owners Manual / Spare Parts List/Service Manual	US9456702	NC		NC
SUBTOTAL				\$

Prices and technical specifications are subject to change without notice.

PARTS BREAKDOWN



Pos. No.	Order No.	For Model	Description
1	4071262	456	Tank 5 liter
-	4071267	454	Tank 3.5 liter
-	4071263	457	Tank 7.5 liter
2	4800185		Pressure Relief Valve Assy
3	0062166	*	O-ring
4	0062258		O-ring
5	4300245		Carrying Strap
6	4400256		Pump Piston
7	0062258		O-ring
8	40774454		Plug
9	0062264	*	O-ring
10	4073528		Tank Lid
11	4074367		Cylinder Support
12	4073527		Cylinder
13	4073634		Cylinder (Use with 0094306)
14	4061342		Gasket
15	4074696		Valve Cone
16	0062165	*	O-ring
17	4200220	456	Pressure Hose, Assy
18	4200221	457	Pressure Hose, Assy
19	4200261	454	Pressure Hose, Assy
20	4800170		Shut-off Valve, Assy
21	4074295		Plastic Pin
22	0062144	*	O-ring
23	4900230		Spray Tube, Assy (inc. 51)
24	0062271		O-Ring
25	0094306		Umbrella Valve
26	4074527		Elbow
27	4074283		Filter Element
28	0062106		O-ring
29	4074756		Swim Plate
30	4074758		Nozzle Tip
31	4074148		Screw Cap
32	4074329		Lock Clip
33	4074335		Retaining Nut
34	4074335		Lever
35	0610402-K		Shut-off Valve Repair Kit
36	0062115		O-ring
37	4074337		Screw Cap
38	4900527		Plastic Adj. Nozzle (incl. a & b)

Accessories

Pos. No.	Order No.	For Model	Description
-	4900405-K		Pump Repair Kit
-	4900323		Bio Attachment
30	4074726	**	Hollow Cone Nozzle Tip
31	4200166	**	Filter Basket, Assy
32	4073410	**	Flange
33	4074263		Flat Spray Jet
38	4200205		Reduction Piece
40	0065185		Pressure Gauge
41	0062249		O-ring
42	4074338		Screw Cap
43	4065189		Pressure Gauge Protection
44	4900430		Drift Guard
45	4900356		Pressure Cont. Gauge Assy
-	4074513		Flat Spray Jet 60 gpm
-	4074514		Flat Spray Jet 30 gpm
-	4074386		Flat Spray Jet 24 gpm
-	4074385		Flat Spray Jet 12 gpm
-	4900100		Double Spray Nozzle
-	0610410-P		Adj. Spray Nozzle Kit
-	4900207		Adj. Spray Nozzle
-	4900252		Hor. Cone Noz. 1.4 mm
-	4900322		Hor. cone Noz. 1.6 mm
-	4900397		Foam Spray Nozzle
-	4900183		Pres. Limit Valve
34	2700316		Check Valve
-	4800170		Shut-off Valve

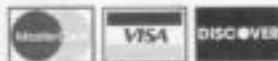
* Pump repair Kit ** Bio Attachment

Prices and technical specifications are subject to change without notice.

Mail or Fax to: SOLO • P.O. Box 5030
Newport News, VA 23605 • Fax: (757) 245-0800

Please do not send cash with this order. Make check or money order payable to SOLO INC. You may request C.O.D. shipment.
Form of payment:

- Credit Card
 Check or Money Order
 C.O.D.



Credit Card Number

Expiration Date

Signature & Phone Number

We cannot process your credit card purchase without signature and expiration date.

Please Print:

Name _____

Address _____

City _____ State _____ Zip _____

Total from previous page	\$
VA residents add applicable sales tax	\$
Shipping	\$ 4.95
Grand Total	\$

Please allow 1-2 weeks for delivery

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Newport News, VA 23605