



# INSTRUCTION MANUAL

MAN190771 REV A 16/4/2024

ECO HAND SPRAYER 5L

MODEL: 190771



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**FOR ALL ISSUES PLEASE FIRST CONTACT SILVAN, DO NOT RETURN SPRAYER TO STORE**

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## Safety

### ! WARNINGS

- This sprayer is designed and manufactured solely for the purpose of applying agricultural chemicals. Under no circumstances may it be used for any other purpose.
- Read owner's manual completely before operating this sprayer.
- Test the sprayer with water before using chemicals
- Before using chemicals refer to the chemical manufacturer's label and safety instructions for safe handling procedures and recommended personal protective clothing and safety equipment.
- Never use flammable liquids, or hot water in this tank.
- Do not use sprayer near open flame or anything that could cause ignition of the spray.
- Do not leave sprayer in the sun when not in use.
- Spray when the air is calm to prevent drift of chemicals. Do not spray in windy conditions.
- Always inspect hose and all the hose connections before each use. A damaged hose, or loose hose connection can result in unintended exposure to the pressurised chemical, resulting in serious injury or property damage.
- Do not lift or carry sprayer by the hose, shut-off valve, or lance. Carry by the handle only.
- Do not pressurise with any mechanical device such as an air compressor, since this can create a dangerous pressure level and bursting of parts resulting in serious injury. Only use original pump.
- Do not store chemicals in this tank.
- Dispose of empty chemical containers and chemical residues in accordance with the instructions supplied by the chemical manufacturer.
- Always release pressure when sprayer is not in use and before performing any maintenance.
- Clean and rinse sprayer thoroughly after each use and before and maintenance.
- Never attempt to alter sprayer from original condition.
- Exercise care to ensure proper stability when carrying or operating in hilly or uneven terrain, particularly if the ground is wet or loose. Wear non-slip shoes
- Keep the sprayer and all chemicals out of the reach of children.

**If you experience problems or have questions in Australia, please contact our toll-free Customer Service Centre at 1300 745826, or email: [info@silvanaust.com](mailto:info@silvanaust.com), or access online at: [www.silvan.com.au](http://www.silvan.com.au)**

**In New Zealand phone 0508 745826 or email: [infonz@silvanaust.com](mailto:infonz@silvanaust.com)**

## Assembly

### Assemble Hose to Tank

**IMPORTANT: Do not attempt to heat or alter hose, hose nut, or barb prior to assembly.**

1. Push hose barb into tank until it stops (See Figure A).
2. Slide hose nut into place and turn clockwise to tighten. (See Figure B).

**NOTE: Do not use tools to tighten hose nut.**

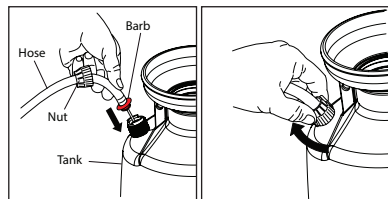
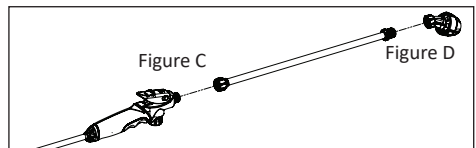


Figure A

Figure B

### Assemble Lance, Shut-Off and Nozzle

1. Install the lance onto the shut-off assembly and tighten the nut securely (See Figure C).
2. Install nozzle onto the end of the lance and tighten securely (See Figure D).

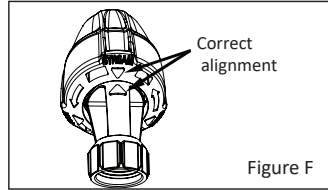
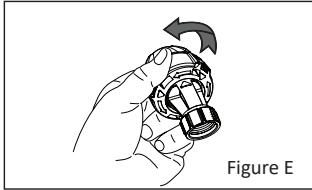





## Assembly (cont.)

### Operating 3-in-1 Nozzle

**IMPORTANT:** Always make sure shut-off handle is released before rotating nozzle to different spray setting. Make sure arrow indicators are aligned before spraying. Failure to do so may result in leaks.

1. While holding shut-off with one hand, rotate 3-in-1 nozzle to desired nozzle position (See Figure E).
2. Nozzle end will fall into place as arrow indicators become aligned (See Figure F).

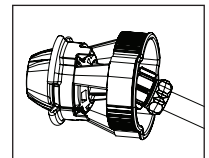
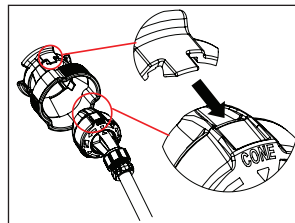


3-IN-1 NOZZLE SETTINGS		
STREAM USES:	FAN USES:	CONE USES:
 <ul style="list-style-type: none"> <li>• Spot spraying in or around flowerbeds, trees and shrubs.</li> <li>• Edging along fences, driveways and walkways.</li> </ul>	 <ul style="list-style-type: none"> <li>• Lawn replacement. Kill lawn and weeds before planting a new lawn.</li> <li>• Preparing large areas for planting of ornamental and vegetable gardens.</li> <li>• Spot spraying in or around flowerbeds, trees and shrubs.</li> </ul>	 <ul style="list-style-type: none"> <li>• Preparing garden beds for planting of ornamentals and vegetables.</li> </ul>

### Assemble Dry-Touch™ Adaptor to 3-in-1 Nozzle

1. Align the snap tabs on the Dry-Touch™ adaptor between the ribs on the nozzle (See Figure G).
2. Press firmly onto nozzle until it snaps securely over base of nozzle (See Figure H).
3. To remove Dry-Touch™ adaptor, grasp outside of part and pull away from nozzle.

**NOTE:** If being used, Dry-Touch™ adaptor must be assembled before weed spray shield.

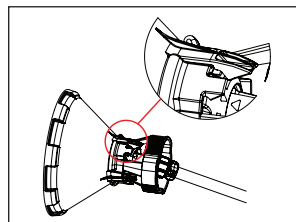
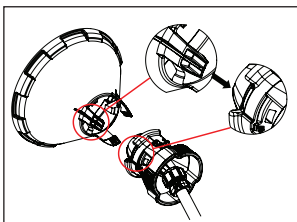


### Assemble Weed Spray Shield

1. Align the snap tabs on weed spray shield with the openings on the Dry-Touch™ adaptor (See Figure J).
2. Press firmly onto adaptor until it snaps securely over it until it snaps securely over base of nozzle (See Figure K).

3. To remove weed spray shield, grasp outside of part and pull away from nozzle and adaptor.

**NOTE:** Weed spray shield can also be assembled to 3-in-1 nozzle without the Dry-Touch™ adaptor.



## Operation

### Filling

**IMPORTANT:** Always make sure the pressure is released from the tank before filling or servicing.

1. Pull up on the knob of the pressure release valve until all the pressure is released from the tank. (See Figure L).
2. Turn the pump handle counterclockwise to remove the pump (See Figure M).
3. Fill the tank to the desired level. See fill markings on side of tank. (Always refer to chemical manufacturer for proper mixture).
4. Install the pump into the tank opening and turn clockwise until tightly sealed against the tank (See Figure N).

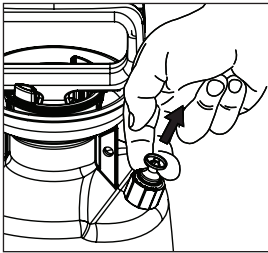


Figure L

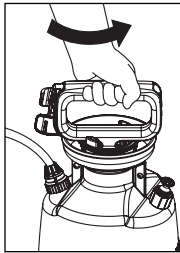


Figure M

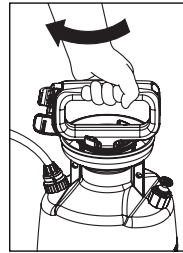


Figure N

### Pressurising

1. Make sure shut-off lock is not on. (If shut-off lock is on while pressurising, the unit will immediately start spraying).
2. Push down on the handle and turn counter-clockwise to unlock the handle (See Figure P).
3. Pressurise the sprayer by pumping the handle in a smooth up and down motion (See Figure Q).
4. Push down on the handle and turn clockwise to lock the handle into the pump (See Figure R).

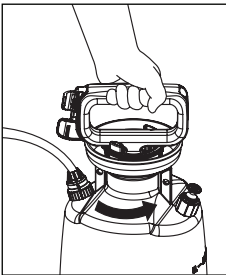


Figure P

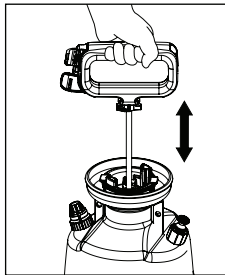


Figure Q

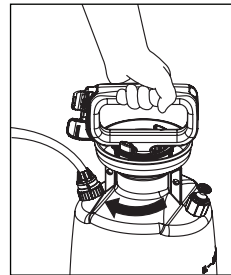


Figure R

### Spraying and Locking

1. Direct nozzle away from you and squeeze shut-off lever to begin spraying (See Figure S).
2. Release shut-off lever to stop spraying.
3. For continuous spraying, squeeze lever and slide lock as shown (See Figure S).

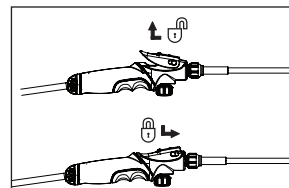


Figure S

## Operation (cont.)

### Finish

1. Depressurise the tank via the pressure release valve as described in *Filling* section.
2. Turn the pump handle counter-clockwise to remove the pump.
3. Empty any remaining liquid according to the product disposal directions.
4. Follow the *Cleaning* instructions.

### Cleaning

1. Remove the pump as described in the *Finish* section.
2. Fill the tank with clean tap water. Replace the pump and tighten securely.
3. Agitate the tank to rinse the chemical from the tank wall and pump.
4. Remove the pump and empty the contents into gravel or bare soil.
5. Refill the tank with clean tap water.
6. **Make sure the pump is free of dirt or debris** and reinstall into the tank. Tighten securely.
7. Pressurise the tank as described in the *Pressurising* section.
8. Direct the nozzle away from you and activate the shut-off for at least 30 seconds to clean the hose and shut-off.
9. Release pressure as described in the *Filling* section.
10. Remove the pump and empty the contents into gravel or bare soil.
11. Repeat steps 5 - 10 until thoroughly cleaned.

### Sprayer Storage

1. Do not store or leave any solution in the tank after use.
2. Store in dry location out of direct sunlight.
3. Keep the sprayer and all chemicals out of the reach of children.

## Maintenance

### Pump Lubrication, Disassembly & Reassembly

**NOTE: Remove pump from tank prior to disassembly.**

1. Inspect gasket. If worn or damaged, remove and replace. (See Figure 1)
2. To remove pump cap from pump barrel, squeeze the tabs on the cap and pull away from barrel. (See Figure 2)

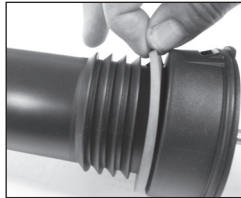


Figure 1

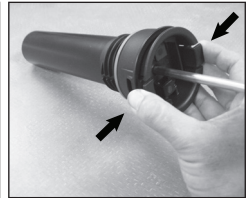


Figure 2

3. Inspect o-ring. If worn or damaged, remove and replace. Lubricate o-ring with silicone grease. (See Figure 3)
4. Inspect check valve in bottom of barrel. If worn or damaged, remove and replace by pressing into hole in bottom of barrel. (See Figure 4)
5. Insert the pump handle assembly into the barrel. Align the tabs of the pump cap with the rectangle cutouts on the barrel. Push cap into place until the cap snaps securely into position. (See Figure 5)

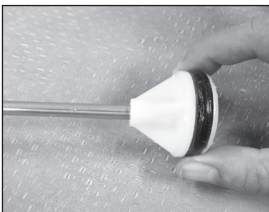


Figure 3



Figure 4

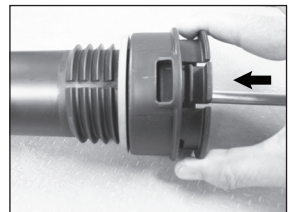


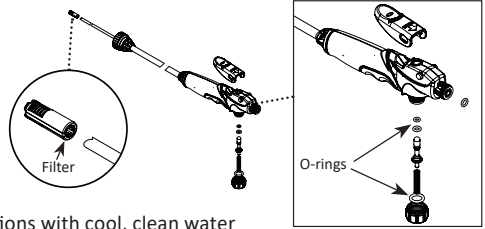
Figure 5

## Maintenance (cont.)

### Shut-Off Maintenance

**Always depressurise sprayer before maintenance.**

1. Remove the shut-off assembly and check for any obstructions at the dip tube or filter.
2. Remove the nut from the bottom of the shut-off and inspect o-rings.
3. If worn or damaged, remove and replace.  
Lubricate o-rings with silicone grease.
4. Clean and flush the internal openings of any obstructions with cool, clean water and re-assemble tightly securing all connections.



### Nozzle Maintenance

1. If nozzle clogs, remove and disassemble the nozzle assembly.
2. Clean the openings of any obstructions and reassemble.

## Troubleshooting

TROUBLE	LOOK FOR	REMEDY
Sprayer starts to spray when pumping or sprayer will not stop spraying when shut-off lever is released.	Shut-off lever is in locked position.	Squeeze shut-off lever and slide back as described in <i>Spraying and Locking</i> section.
Sprayer leaks air at pump or sprayer does not build pressure.	<ol style="list-style-type: none"> <li>1. Dirt or debris on pump gasket (Fig 1) or tank thread.</li> <li>2. Dirt or debris under pump valve (Fig 4)</li> <li>3. Chipped, torn, swollen, damaged pump or missing valve at bottom of pump (Fig 4)</li> <li>4. Worn or damaged O-ring on piston (Fig 3)</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean dirt or debris from gasket (Fig 1) or closure.</li> <li>2. Remove and clean dirt or debris from valve (Fig 4) and sealing surface on pump.</li> <li>3. Replace if worn or missing valve as described in <i>Pump Disassembly &amp; Reassembly</i> section</li> <li>4. Replace if worn or damaged as described in <i>Pump Disassembly &amp; Reassembly</i> section.</li> </ol>
Sprayer material overflows through pump barrel or pump handle rises when handle is unlocked.	<ol style="list-style-type: none"> <li>1. Dirt or debris under pump valve (Fig 4)</li> <li>2. Chipped, torn, swollen, damaged pump or missing valve at bottom of pump (Fig 4)</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove and clean dirt or debris from valve (Fig 4) and sealing surface on pump.</li> <li>2. Replace if worn or missing valve as described in <i>Pump Disassembly &amp; Reassembly</i> section.</li> </ol>
Sprayer is difficult to pump.	<ol style="list-style-type: none"> <li>1. Damaged piston O-ring (Fig 3)</li> <li>2. Piston O-ring (Fig 3) is dry.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace piston O-ring as described in <i>Pump Disassembly &amp; Reassembly</i> section.</li> <li>2. Lubricate piston O-ring as described in <i>Pump Disassembly &amp; Reassembly</i> section.</li> </ol>
Sprayer tank leaks.	1. Liquid escaping from crack in tank.	1. Replace entire sprayer.
Nozzle drips when shut-off lever is released.	<ol style="list-style-type: none"> <li>1. Dirt or debris in shut-off valve.</li> <li>2. Damaged o-ring or seal in shut-off.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean shut-off as described in <i>Shut-Off Maintenance</i> section.</li> <li>2. Replace shut off seals (Parts Service Kit 186007)</li> </ol>
Nozzle tip leaks, poor spray pattern, partial spray or complete stoppage.	<ol style="list-style-type: none"> <li>1. O-ring missing or damaged.</li> <li>2. Lance or nozzle clogged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace flat seal (Parts Service Kit 186007)</li> <li>2. Remove nozzle and clean as described in <i>Nozzle Maintenance</i> section.</li> </ol>

## Spare Parts



1



2



3



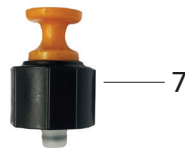
4



5



6



7






	Code	Description
1	186004	3-IN-1 NOZZLE
2	186005	DRY-TOUCH™ ADAPTOR
3	186006	WEED SPRAY SHIELD
4	186007	HAND PUMP & SHUT-OFF ASSEMBLY REPAIR KIT
5	186008	SHUT-OFF ASSEMBLY (LEVER ASSEMBLY)
6	186009	POLY LANCE
7	186014	PRESSURE RELEASE VALVE

# ALL NATURAL DIY RECIPES

With EPDM seals and high quality fittings, the Silvan 5L ECO Sprayer is ideal for use with select organic and DIY natural solutions. With durable reinforced hose, premium shut-off handle, adjustable nozzle (fine mist to pencil straight stream) and easy fill no spill funnel top, this Sprayer can be used in most Herbicide, Pesticide and Fertiliser applications.



ALL NATURAL HERBICIDE RECIPE	ALL NATURAL INSECTICIDE RECIPE	ALL NATURAL FUNGICIDE RECIPE
		
<ul style="list-style-type: none"> <li>• 200ml Double strength white vinegar</li> <li>• 3 Tbsp. Liquid dish soap</li> <li>• 800ml Water</li> </ul> <p>Mix all ingredients thoroughly.</p> <p>Spray directly onto weeds until completely coated. Reapply as needed.</p>	<ul style="list-style-type: none"> <li>• 1/2 Cup vegetable oil</li> <li>• 2 Tbsp. Liquid dish soap</li> </ul> <p>In a small container, mix oil and soap by shaking thoroughly.</p> <p>Add 8 teaspoons of oil/soap mixture per 5L of water.</p> <p>Spray directly on pests or the leaves of plants that have been affected.</p>	<ul style="list-style-type: none"> <li>• 5 Tsp. Baking soda</li> <li>• 5L Water</li> </ul> <p>Mix baking soda completely into water.</p> <p>Spray directly onto affected leaves or soil.</p>

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**Silvan**

*The Spraying Specialists*