Model: FSP40
(Black: 5301500-BLK)
(Blue: 5301500-BLU)
(40 Gallon Spot Sprayer)

Technical Specifications
- 40 Gal. Corrosion-Resistant Polyethylene Tank
- 12 Volt Diaphragm Pump, 2.2 GPM, 100 PSI
- Deluxe Pistol Grip Handgun
- 25 Ft. Handgun Hose (3/8” I.D.)

Assembly Instructions
Your sprayer has been mostly assembled at the factory. One requirement will be for you to hook up your battery leads to a fully charged 12 Volt battery. The red wire must be connected to the “hot” lead and the black wire should be connected to the ground. Remove the handgun clips from the parts bag and place them onto the tank.

CAUTION: When fully filled with water, this sprayer will weigh approx. 390 Lbs. Always check the vehicle load rating before using this sprayer. Do not exceed the recommended rating.

General Information
Thank you for purchasing this product. The purpose of this manual is to assist you in operating and maintaining your lawn & garden spot sprayer.

WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov

Retain a copy of your receipt for your unit, as it will be required to validate any warranty service.

Products are warranted against manufacturer or workmanship defects for one year from date of purchase for home owner usage and 90 days for commercial usage.

For technical assistance, visit our website @ www.agspray.com or call: Toll Free to one of the above phone numbers.

Our Technical Support Representatives will be happy to help you. To obtain prompt, efficient service, always remember to give the following information:
- Correct Part Description and/or part number
- Model#/Serial # of your sprayer

Part descriptions and numbers can be obtained from the illustrated parts list section(s) of this manual.

Shut-Off Valve

This sprayer comes with an On/Off valve located on your intake line. You must make sure the valve is in the “open” position before using your sprayer.
IMPORTANT: Remove tank lid and be sure the tank is clean and free of any foreign material. Rinse tank out of any tank residue before filling with water to test.

Testing the Sprayer

NOTE:
It is VERY important for you to test your sprayer with plain water before actual spraying is attempted. This will enable you to check the sprayer for leaks without the possibility of losing any expensive chemicals.

Conditions of weather and terrain must be considered when setting the sprayer. Do not spray on windy days. Protective clothing must be worn in some cases

Be sure to read the chemical label(s) before application!

Operation

Your sprayer is equipped with (1) ON/OFF switch in the wire assembly that you hook up to your battery. The “-” is the “ON” position and the “o” is the “OFF” position for the switch. Make sure the switch is depressed in the “-” position for operation. The pump is equipped with a pressure switch that is factory pre-set for it to shut off at 45 p.s.i. This switch assembly is the “square box” on the head portion of the pump. Always fill the tank 1/2 full with water first and then add the chemical slowly, mixing as you pour the chemical into the tank and then fill the rest of the way.

The pumping system draws solution from the tank, through the strainer/filter and to the pump. The pump forces the solution under pressure to the rest of the way.

Filter Screen Location

Checking/Cleaning the sprayer’s filter/screen:

1. Start your pump and before it shuts off, reach down and shut the valve to the ‘Closed’ position (lever is perpendicular to the flow of fluid), then shut off your pump
2. Unscrew the knurled nut from the shut-off valve, leaving the valve connected to the intake line.
3. Look in the nut you JUST unscrewed. There is a screen/washer there.
4. Remove the screen and clean as necessary. Replace when done and reassemble the entire assembly.
5. Make sure the valve is turned to the ‘Open’ position before restarting your pump.

There is a shut-off valve on the intake line, next to the pump. It is at this location so you can shut off the flow of solution to access your system’s screen for cleaning.

Winter Storage

Prepare the sprayer for end-of-season storage by running RV antifreeze through the system. This will keep internal parts lubricated, protect against corrosion and keep the unit from freezing. Note: RV antifreeze is non-toxic and biodegradable and generally safer for the environment than automotive antifreeze.

Before storing your sprayer for winter or long term storage, thoroughly clean and drain it as much as possible. Then pour enough pink RV antifreeze into the tank so that when the pump is turned on you can pump the antifreeze throughout the entire plumbing system, including the bypass. Make sure to operate the handgun until you see pink fluid spraying from the nozzle. Leave any remaining antifreeze in the tank. Before your next usage, rinse the antifreeze from the sprayer with clean water.

It is nearly impossible to drain all of the water from the sprayer and any trapped water can freeze in cold weather and damage parts of the sprayer. Pumping the antifreeze through the system will displace the water and help prevent this damage.

Removing from storage: drain the antifreeze. Fill the tank with fresh water and run through the system. Dispose of antifreeze and flush water properly.

Maintenance During/After Spraying

Periodically check the strainer and clean the screen on your intake line. Proper care and maintenance will prolong the life of your sprayer.

After use, drain the tank and store or dispose of chemical properly. Fill the sprayer half way with clean water. Start the pump and allow the water to pump through the entire plumbing system and nozzle. Drain and then refill half full, add the recommended amount of a good quality tank cleaner, such as FIMCO Tank Neutralizer and Cleaner. (If no tank cleaner is available, you may substitute dish soap for this step, about 1-2 oz. per gallon). Turn pump on and circulate through system for 15 minutes and then spray out through handgun nozzle. Refill sprayer half way with clean water and repeat. Follow the chemical manufacturer’s disposal instructions of all wash or rinsing water.

If handgun nozzle needs cleaning, remove from the sprayer and soak in warm soapy water. Clean with a soft bristled brush or toothpick if necessary. Never use a metal object. Even the slightest damage can change the flow rate and spray distribution. Water rinse and dry the tips before storing.

WARNING: Some chemicals will damage the pump valves if allowed to soak untreated for a length of time! ALWAYS flush the pump as instructed after each use. DO NOT allow chemicals to sit in the pump for extended times of idleness. Follow the chemical manufacturer’s instructions on disposal of all waste water from the sprayer.

Complete
1/2” Bulkhead Fitting
TF50DTN
DO

- Clean and rinse your pump after each use with Fimco Tank Neutralizer
- Winterize your pump or sprayer by rinsing, draining and running RV Antifreeze through it before storing for the winter.
- Use clean water for your spray mixture
- Store inside a building when not in use.

DON’T

- Use to pump bleach.
- Use to pump petroleum products, such as diesel fuel, gasoline or kerosene
- Leave your pump sit with spray mixture in it for extended periods
- Use dirty or unfiltered water for spraying

Troubleshooting the Pump:

Motor does not run:
- Check for loose wiring connection(s).
- Make sure the 'ON/OFF' switch in the lead wire assembly is in the 'ON' position. "I" is the 'ON' position and 'O' is the 'OFF' position.
- Check for defective switch assembly. Make sure you are connected to a good 12 volt power source. Make sure any on/off switches are in the 'on' position. Disconnect the wires off of switch assembly and short them out. If your pump runs when you do this, your switch assembly will need to be replaced.
- Check the fuse, if applicable.
- Check for low voltage at the power supply.

Pump does not prime:
- Check for air leaks in supply line.
- Check for debris in the valve assembly.
- Check for defective valve assembly.
- Check for clogged strainer/filter.
- Check for cracks in the pump housing.
- Check for empty product supply.

Pulsating flow (surging):
- Check for defective switch assembly.
- Check for leaks in the discharge line.
- Check for restriction in the discharge line.
- Check for debris in nozzle orifice.
- Discharge hose may be too long.
- Check for clogged strainer.

Motor continues to run after discharge is shut off:
- Check for empty product supply.
- Check for open bypass valve. (if equipped)
- Check for low voltage.
- Check for leak in discharge line.
- Check for defective or dirty valve assembly.
- Check for defective switch assembly.

STOP WARNING STOP

DO NOT USE PUMP IN AN EXPLOSIVE ENVIRONMENT. DO NOT USE TO PUMP FLAMMABLE/COMBUSTIBLE FLUIDS, GASOLINE, KEROSENE, FUEL, OIL, ETC.

CAUTION

PRESSURE SWITCH OPERATION
Pressure switch is pre-set at the factory. Improper adjustment of the pressure switch, may cause severe overload or premature failure. If the pump is subjected to rapid cycling during normal operation, or infrequent periods, damage may occur.

Exploded View/Parts List:
SHURflo Pump
(Model: 5151074)

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<th>Ref. #</th>
<th>Mfg. Part #</th>
<th>Description</th>
<th>Qty.</th>
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<td>Switch Assembly</td>
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<td>94-378-00</td>
<td>Upper Housing</td>
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<td>94-390-05</td>
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<td>5</td>
<td>94-385-35</td>
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Base Plate Grommets (Pkg/4): #5075019
Exploded View/Parts List:
FSP40
(5301500-BLK)
(5301500-BLU)

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<tr>
<th>Ref. #</th>
<th>Part #</th>
<th>Description</th>
<th>Qty</th>
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<td>5169246</td>
<td>40 Gallon Elliptical Tank (Yellow)</td>
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<td>1/2” Bulkhead Fitting Assembly</td>
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<td>5010203</td>
<td>Poly Elbow, 1/2” MNPT x 1/2” HB</td>
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<td>5102070</td>
<td>Poly Pipe Plug, 1/2” MNPT</td>
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<td>5058188</td>
<td>Tank Lid w/Lanyard</td>
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<td>5</td>
<td>5278348</td>
<td>Deluxe Handgun Clips &amp; Screws (Pkg/2) (#10-24 Thread)</td>
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<td>5273959</td>
<td>Deluxe Pistol-Grip Handgun w/X-26 Tip</td>
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<td>5018331</td>
<td>Brass Handgun Tip (X-26)</td>
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<td>7</td>
<td>5051144</td>
<td>Hose Clamp, 3/8”</td>
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<td>5020527</td>
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<td>5281376</td>
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<td>SHURflo Plumbing Assembly</td>
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<td>5116242</td>
<td>Strainer, 1” Filter Washer</td>
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<td>Poly Swivel Adapter Spud, 1/2” NPT</td>
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<td>Plastic Tank Hold-Down Leg Clip</td>
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<td>14</td>
<td>5006259</td>
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<td>Lead Wire Assembly (14 ga, w/Switch), 120”</td>
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<td>15 Amp Regular blade Fuse</td>
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LIMITED WARRANTY FOR NEW AG SPRAY EQUIPMENT

WHO MAY USE THIS LIMITED WARRANTY. This limited warranty (the “Limited Warranty”) is provided by Ag Spray Equipment to the original purchaser ("you") of the Equipment (as defined below) from Ag Spray Equipment or one of Ag Spray Equipment’s authorized dealers. This Limited Warranty does not apply to any subsequent owner or other transferee of the Equipment. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

WHAT THIS LIMITED WARRANTY COVERS AND FOR HOW LONG. Ag Spray Equipment warrants that any new Equipment will be free from defects in material and workmanship for a period of one (1) year (homeowner), 90 days (commercial user), after delivery of the Equipment to you (the “Warranty Period”). The Warranty Period is not extended if Ag Spray Equipment repairs or replaces the Equipment.

WHAT IS NOT COVERED BY THIS LIMITED WARRANTY. This Limited Warranty does not apply to: (1) used Equipment; (2) any Equipment that has been altered, changed, repaired or treated since its delivery to you, other than by Ag Spray Equipment or its authorized dealers; (3) damage or depreciation due to normal wear and tear; (4) defects or damage due to failure to follow Ag Spray Equipment’s operator’s manual, specifications or other written instructions, or improper storage, operation, maintenance, application or installation of parts; (5) defects or damage due to misuse, accident or neglect, “acts of God” or other events beyond Ag Spray Equipment’s reasonable control; (6) accessories, attachments, tools or parts that were not manufactured by Ag Spray Equipment, whether or not sold or operated with the Equipment; or (7) rubber parts, such as tires, hoses and grommets.

HOW TO OBTAIN WARRANTY SERVICE. To obtain warranty service under this Limited Warranty, you must (1) provide written notice to Ag Spray Equipment of the defect during the Warranty Period and within thirty (30) days after the defect becomes apparent or the repair becomes necessary, at the following address: Ag Spray Equipment, 1000 Fimco Lane, North Sioux City, SD 57049; and (2) make the Equipment available to Ag Spray Equipment or an authorized dealer within a reasonable period of time. For more information about this Limited Warranty, please call: 800-274-1025 or your local Ag Spray location.

WHAT REMEDIES ARE AVAILABLE UNDER THIS LIMITED WARRANTY. If the conditions set forth above are fulfilled and the Equipment or any part thereof is found to be defective, Ag Spray Equipment shall, at its own cost, and at its option, either repair or replace the defective Equipment or part. Ag Spray Equipment will pay for shipping and handling fees to return the repaired or replacement Equipment or part to you.

LIMITATION OF IMPLIED WARRANTIES AND OTHER REMEDIES. THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES, AND AG SPRAY EQUIPMENT’S SOLE LIABILITY, FOR ANY BREACH OF THIS LIMITED WARRANTY. TO THE EXTENT APPLICABLE, ANY IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE WARRANTY PERIOD, AND THE REMEDIES AVAILABLE FOR BREACH THEREOF SHALL BE LIMITED TO THE REMEDIES AVAILABLE UNDER THIS EXPRESS LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IN NO EVENT SHALL AG SPRAY EQUIPMENT’S LIABILITY UNDER THIS LIMITED WARRANTY EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE EQUIPMENT, NOR SHALL AG SPRAY EQUIPMENT BE LIABLE, UNDER ANY CIRCUMSTANCES, FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.