ONLINE'S MANUAL

Model: AG55-HBDLXWA
Black (5302074-BLK)
Blue (5302074-BLU)
(55 Gallon Deluxe Spot Sprayer)

- 55 Gallon Deluxe Spot Sprayer
- 55 Gal. Corrosion-Resistant Polyethylene Tank
- 12 Volt Diaphragm Pump, 2.2 GPM, 100 PSI
- ProSeries 22" Handgun

GENERAL INFORMATION

Thank you for purchasing this product. The purpose of this manual is to assist you in operating and maintaining your sprayer.

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.

CAUTION: Always check the vehicle load rating before using this sprayer. Do not exceed the recommended rating.

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.

Bridges: 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.

IF YOU SHOULD HAVE A QUESTION OR EXPERIENCE A PROBLEM WITH YOUR AG SPRAY PRODUCT GIVE US A CALL

BAKERSFIELD, CA
877-724-2236
COLUMBUS, NE
800-274-1025
DOOTHAN, AL
800-227-4098

FARGO, ND
701-280-2862
HOPKINSVILLE, KY
800-837-7172
MANKATO, MN
507-388-6295

NEWTON, KS
800-394-7662
PASCO, WA
800-634-2026
TEMPE, AZ
877-974-7166

BEFORE YOU CALL, PLEASE HAVE THE FOLLOWING INFORMATION AVAILABLE: SALES RECEIPT & MODEL NUMBER. IN MOST CASES, AN AG SPRAY EMPLOYEE CAN RESOLVE THE PROBLEM OVER THE PHONE.

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.

EQUIPMENT

www.agspray.com

[5194616 (01/19)]
**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.

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**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.

Fill the tank about 1/2 full with plain water and drive to the starting place for spraying.

When you are ready to spray, turn the boom valve (your handgun is connected to this outlet) to the ‘on’ position (Detail A). This will start solution spraying from handgun when the trigger is pulled. The pressure will decrease slightly when spraying.

Adjust the pressure by turning the “ON/OFF” valve lever on the pressure adjust valve (Detail B). Make sure your pattern is sufficient. You may down-pressure the system by ‘bypassing’ solution back into the tank. This is achieved by opening the pressure adjust valve. Regulating pressure is done in this manner.

Read the operating instructions and initially begin spraying by closing the ‘Pressure Adjust’ valve and opening the boom line valve (Detail A). This will enable the air in the line to be eliminated (purged) through all the tip, when the trigger is pulled on the handgun, while building pressure. When everything tests all right (no leaks and good pressure), add the desired chemicals to the mixture and water combination and start your spraying operation. Adjust the pressure and spray as you did in the testing procedure.

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**

The pumping system draws solution from the tank, through the strainer and to the pump. The pump forces the solution under pressure to the handgun nozzle.

Connect the lead wire to a fully charged 12 volt battery. You may use either a stand-alone battery or the battery on your towing vehicle. Connect to the positive (red) terminal first, then connect to the negative (black) terminal. Then connect the end of the lead wire to the end of the pump. When disconnecting, disconnect the end of the pump wire from the lead wire, then disconnect the negative (black) connection and finally the positive (red) connection. The lead wire has an On/Off switch to activate the pump. ‘-’ is on and “O” is off.

Fill the tank part way with water and then add the desired amount of chemical to be sprayed. Finish filling tank to proper level. Turn the pump on and by depressing the “-” side of the rocker switch. The pump is equipped with a pressure switch that is pre-set at the factory to shut the pump off when all discharges are closed.

The pump will turn back on when one of the following actions occurs:

- Pressure adjust valve is opened to re-circulate solution back into the tank.
- Trigger is pulled on the handgun.

**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 handgun 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.

See Page 5 for Winter Storage
**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

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**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.

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**Exploded View/Parts List:**

<table>
<thead>
<tr>
<th>Ref. #</th>
<th>Mfg. Part #</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>94-375-18</td>
<td>Switch Assembly</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>94-374-08</td>
<td>Check Valve Assembly</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>94-378-00</td>
<td>Upper Housing</td>
<td>1</td>
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<tr>
<td>4</td>
<td>94-390-05</td>
<td>Valve Assembly</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>94-385-35</td>
<td>Drive Assembly</td>
<td>1</td>
</tr>
</tbody>
</table>

*Base Plate Grommets (Pkg/4): #5075019*

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

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**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.

- 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.

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**Ref. #**

**Mfg. Part #**

**Description**

**Qty.**

1. Switch Assembly
2. Check Valve Assembly
3. Upper Housing
4. Valve Assembly
5. Drive Assembly

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**Base Plate Grommets (Pkg/4): #5075019**
Manifold Detail

Long Range Pro Series Handgun

- No Drip Shut Off
- Easy Pull Trigger Handle
- Chemical Resistant Construction
- 38' Horizontal Throw & 27' Vertical Throw

To adjust the spray pattern, the nut needs to be adjusted (Ref. A). Spinning it off, towards the lever, will make a cone pattern and spinning it on, away from the lever, will make a stream. The lever (Ref. B), is the lock that can be used to lock the lever when pulled, holding the valve open. Squeezing the trigger, will release the lock.

Refer to the Parts List Previous Page for Part Numbers.

ProSeries Handgun Replacement Parts

End Cap Replacement Kit
(End Cap, Gasket, Orifice Disc) 7772092

Repair Kit
(O-Ring, Valve Core Assembly) 7772093

(7772093) Exploded
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.