Model: BK-70A (5301197)
(7-Nozzle Boom Assembly)

Technical Specifications
- 7-Nozzle Boom Assembly
- Break-Away Outer Booms
- 140” of Spray Coverage
- AIXR11002 VP, #2 (Yellow) 110° tips
- Check Valve Strainers, 50 Mesh, 5 PSI

Assembly Instructions

Remove the parts to the boom assembly from the carton. Refer to the parts list and exploded view drawing to help identify all the components.

1. Center the center section of the boom onto your boom mounts and secure in place with the hardware provided. Be sure that the outer booms will fold 'backwards'. The boom should be a minimum of 18” above the ground.

2. Attach the nozzle harness assembly to the boom. The end boom members should fold towards the rear of the sprayer.

3. Route your boom feeder hose (not included) under the unit, to the back end of the sprayer. Join the hose to the 'cross fitting'. Then clamp in place with a hose clamp.

CAUTION: Never use a metal object or other sharp item for cleaning a nozzle tip. It is better to use a nozzle brush (NOT wire brush) or compressed air for tip cleaning.

General Information

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

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

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, call: TOLL FREE @ 1-800-831-0027
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.

www.fimcoindustries.com
1000 FIMCO Lane, P.O. Box 1700, North Sioux City, SD 57049
Toll Free Phone: 800-831-0027; Toll Free Fax: 800-494-0440
[5004554 (11/18)]
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 for leaks without the possibility of losing any expensive chemicals.

Fill the tank about 1/2 full with plain water. When you are ready to spray, turn the boom valve to the "on" position. This will start solution spraying from the tips of the boom. The pressure will decrease slightly when the boom is spraying. Adjust the pressure by turning the "ON/OFF" valve lever on the bypass line valve. 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 bypass valve. Regulating pressure is done in this manner.

Read the operating instructions and initially begin spraying by closing the 'bypass' valve and opening the boom line valve. This will enable the air in the line to be eliminated (purged) through all the tips, 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.

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!**

Calibration

Chemical labels may show application rates in gallons per acre, gallons per 1000 square feet or gallons per 100 square feet. You will note that the tip chart on the cover shows 2 of these rating systems. Once you know how much you are going to spray, then determine (from the tip chart) the spraying pressure (PSI), and the spraying speed (MPH).

Determining the proper speed of the pulling vehicle can be done by marking off 100, 200 & 300 feet. The speed chart indicates the number of seconds it takes to travel the distances. Set the throttle and with a running start, travel the distances. Adjust the throttle until you travel the marking off 100, 200 & 300 feet. The speed chart indicates the number of seconds to travel a distance of 100, 200 & 300 feet. The speed chart indicates the number of seconds to travel a distance of 100, 200 & 300 feet.

Add water and proper amount of chemical to the tank and drive to the starting place for spraying.

Using the Boom Nozzles

Four things must be considered before spraying with the boom.

1. How much chemical must be mixed in the tank.
2. Rate of spray (gallons per acre to be sprayed).
3. What pressure (p.s.i.) will be used.
4. Speed traveled (mph) while spraying.

* Refer to the chemical label to determine your chemical mixture
* See the tip chart to determine the pressure to be used. The chart will also show the speed used when spraying.
* Start the pump and open the valve to the boom nozzles.
* Check the spray pattern. Usually you can see the coverage better on a solid concrete surface, such as a driveway.

Raise or lower the nozzles so that you will have a good coverage pattern. Generally the proper height should be about 18 inches from the object(s) being sprayed.

### Speed Chart

<table>
<thead>
<tr>
<th>Speed in M.P.H.</th>
<th>Time Required in seconds to travel a distance of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed in MPH</td>
<td>100 Ft.</td>
</tr>
<tr>
<td>1.0</td>
<td>68 sec.</td>
</tr>
<tr>
<td>2.0</td>
<td>34 sec.</td>
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<tr>
<td>3.0</td>
<td>23 sec.</td>
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<tr>
<td>4.0</td>
<td>17 sec.</td>
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<tr>
<td>5.0</td>
<td>14 sec.</td>
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<tr>
<td>6.0</td>
<td>11 sec.</td>
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<td>7.0</td>
<td>9.7 sec.</td>
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<tr>
<td>8.0</td>
<td>8.5 sec.</td>
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</tbody>
</table>

### Operation

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. You may use the bypass in order to mix the chemical and water.

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 handgun and/or boom nozzles.

- Activate the handgun by squeezing the handle lever
- Rotating the adjustable nozzle tip on the handgun will change the tip pattern from a straight stream to a cone pattern (fine mist)

The nozzles on the boom will spray a 140 inch wide swath. However, it is necessary to overlap patterns 30% to get proper coverage. The first pass will only cover a 12 inch wide swath, but each pass thereafter will provide a 140 inch swath of proper coverage. The proper nozzle height should be a minimum of 18 inches above the object being sprayed. Check the nozzle pattern by spraying water on a concrete surface. Raise the boom to a higher mounting position to get more spray pattern overlap, if desired.

**Adjusting Pressure**

- When the bypass valve is closed, pressure is at the highest point.
- Opening the valve will decrease pressure.

### Maintenance During/After Spraying

After use, fill the sprayer tank part way with water. Start the sprayer and allow the clear water to be pumped through the plumbing system and out through the spray nozzles. Refill the tank about half full with plain water and use FMCO Tank Neutralizer and Cleaner and repeat cleaning instructions above. Flush the entire sprayer with the neutralizing/cleaning agent, then flush out one more time with plain water. Follow the chemical manufacturer's disposal instructions of all wash or rinsing water. Remove the tips and screens from the nozzle assemblies. Wash these items out thoroughly. Blow the orifice clean and dry. If the orifice remains clogged, clean it with a fine bristle (NOT WIRE) brush or with a toothpick. Do not damage the orifice. 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.

### 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 boom and handgun until you see pink fluid spraying from the nozzles. 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.

### Using the Boom Nozzles

- Opening the valve will decrease pressure.
- Start the pump and open the valve to the boom nozzles.
- Check the spray pattern. Usually you can see the coverage better on a solid concrete surface, such as a driveway.
- Raise or lower the nozzles so that you will have a good coverage pattern. Generally the proper height should be about 18 inches from the object(s) being sprayed.
#5277926 1/2" to 3/8" Conversion Kit

If your existing sprayer has a 1/2" I.D. hose supplying your original boom and you now have a boom with 3/8" I.D. hose, this conversion kit allows you to easily convert your supply line to fit onto the 3/8" I.D. hose of your new boom.

Slip the hose mender’s 1/2" barb (larger side) into your existing 1/2" feeder hose and clamp in place with (existing) original hose clamp. Slip the (included) 3/8" hose (5-1/2" long) onto the 3/8" barb of the hose mender and clamp in place with one of the supplied hose clamps.

Now attach the open end of the hose onto the fitting on your boom which accepts the feeder line hose. Make sure you place the hose clamp onto that hose prior to attaching it to your boom.
LIMITED WARRANTY FOR NEW FIMCO, IND. EQUIPMENT

WHO MAY USE THIS LIMITED WARRANTY. This limited warranty (the “Limited Warranty”) is provided by Fimco, Ind. to the original purchaser (“you”) of the Equipment (as defined below) from Fimco, Ind. or one of Fimco, Ind.’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. Fimco, Ind. 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 Fimco, Ind. 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 Fimco, Ind. or its authorized dealers; (3) damage or depreciation due to normal wear and tear; (4) defects or damage due to failure to follow Fimco, Ind.’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 Fimco, Ind.’s reasonable control; (6) accessories, attachments, tools or parts that were not manufactured by Fimco, Ind., 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 Fimco, Ind. 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: Fimco, Ind., 1000 Fimco Lane, North Sioux City, SD 57049; and (2) make the Equipment available to Fimco, Ind. or an authorized dealer within a reasonable period of time. For more information about this Limited Warranty, please call: 800-831-0027.

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, Fimco, Ind. shall, at its own cost, and at its option, either repair or replace the defective Equipment or part. Fimco, Ind. will pay for shipping and handling fees to return the repaired or replacement Equipment or part to you.

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