Model: BK-4-61 (5301469)
(5-Nozzle Boom Assembly for Mounting to 60 Gallon Skid Units)

Technical Specifications
- 5-Nozzle Boom Assembly
- 100” Spray Swath
- Corrosion-Resistant Nylon Nozzles
- Check Valve Strainers, 50 Mesh, 5 PSI
- Break-Away Outer Boom Members
- Mounts and Plumbing for attachment to a FIMCO 60 Gallon Skid Unit
- Mounting U-Bolts/Nuts Included

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. Attach the (2) boom mounts to the back of your skid frame with the (4) hex screws and hex flange lock nuts.
2. Center the ‘center boom section’ onto the boom mounts and secure in place with the (2) square u-bolts and hex flange lock nuts. Be sure that the outer booms will fold ‘backwards’, NOT upwards.
3. Attach the nozzle harness assembly to the boom. The clamps should be positioned over the tubes so that the nozzles are on the back side of the boom tube.
4. Join the boom feeder hose to the center ‘cross’ nozzle assembly’s open hose barb (on the top of the nozzle), then clamp in place with a hose clamp. Route the hose under the skid to the front end of the unit.
5. The boom feeder hose fittings for models SK-61-4R and SK-61-12V are different. Refer to the exploded view drawing.
6. Remove the plug or cap fittings from the sprayer as show in the exploded view.
7. Thread the fittings together, using a good grade thread sealant to prevent leaking (for pipe threaded connections). Garden hose threaded connections do not require sealant.
8. Join the feeder hose to the fittings and secure in place.

General Information
Thank you for purchasing this product. The purpose of this manual is to assist you in operating and maintaining your boom kit 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 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, 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
[5004670] (01/19)
**Testing the Sprayer**

**NOTE:** It is VERY important for 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.

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 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 distances in the number of seconds indicated by the speed chart. Once you have reached the throttle setting needed, mark the throttle location so you can stop and go again, returning to the same speed.

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.

**Speed Chart**

<table>
<thead>
<tr>
<th>Speed in M.P.H (Miles Per Hour)</th>
<th>Time Required in seconds to travel a distance of</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 Ft.</td>
</tr>
<tr>
<td>1.0</td>
<td>68 sec.</td>
</tr>
<tr>
<td>2.0</td>
<td>34</td>
</tr>
<tr>
<td>3.0</td>
<td>23</td>
</tr>
<tr>
<td>4.0</td>
<td>17</td>
</tr>
<tr>
<td>5.0</td>
<td>14</td>
</tr>
<tr>
<td>6.0</td>
<td>11</td>
</tr>
<tr>
<td>7.0</td>
<td>9.7</td>
</tr>
<tr>
<td>8.0</td>
<td>8.5</td>
</tr>
<tr>
<td>9.0</td>
<td>7.6</td>
</tr>
<tr>
<td>10.0</td>
<td>6.8</td>
</tr>
</tbody>
</table>

Based on the minimum overlap required to obtain uniform distribution with 110° tips and 20” spacing.

Suggested Minimum Spray Height: 16”-18” above what is being sprayed (to plant, not ground).

Optimum Spray Height: 20”

**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.

- 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)

**Maintenance During/After Spraying**

Periodically check the strainer and clean the screen at the bottom of your intake tube.

Proper care and maintenance will prolong the life of your sprayer.

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 FIMCO 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. For the boom (if applicable) 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 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.

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

**Spray Tip Rate Chart (20” Spacing)**

<table>
<thead>
<tr>
<th>Tip No.</th>
<th>Pressure (psi)</th>
<th>Capacity (GPM) Gal. Per Acre - Based on Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 MPH</td>
<td>2 MPH</td>
</tr>
<tr>
<td>AIXR11002VP</td>
<td>15</td>
<td>.12</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>.14</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>.17</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>.20</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Tip No.</th>
<th>Pressure (psi)</th>
<th>Capacity (GPM) Gal. Per 1000 Sq. Ft. - Based on Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 MPH</td>
<td>2 MPH</td>
</tr>
<tr>
<td>AIXR11002VP</td>
<td>15</td>
<td>.12</td>
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<tr>
<td></td>
<td>20</td>
<td>.14</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>.17</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>.20</td>
</tr>
</tbody>
</table>
## Exploded View/Parts List:

**BK-4-61 (#5301469)**

<table>
<thead>
<tr>
<th>Ref. #</th>
<th>Part #</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5006209</td>
<td>Poly Knurled Nut, 3/4&quot; FGHT</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>5006259</td>
<td>3/8&quot;-16nc Hex Flanged Whiz Nut, Grade 5</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>5006307</td>
<td>5/16&quot;-18nc Hex Flanged Whiz Nut, Grade 5</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>5010243</td>
<td>90° Poly Street Elbow, 1/2&quot; MPT x 1/2&quot;FPT</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>5016066</td>
<td>Garden Hose Washer</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>5020131</td>
<td>Hose, 3/8&quot;-1 Brd. x 90&quot;</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>5034159</td>
<td>Square U-Bolt, 5/16&quot; x 1-5/16&quot; x 1-7/8&quot;</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>5038831</td>
<td>Boom Mount Bracket (LH)</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>5038835</td>
<td>Boom Mount Bracket (RH)</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>5051144</td>
<td>Hose Clamp, 3/8&quot;</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>5067130</td>
<td>Poly Fitting, 1/2&quot; MNPT x 3/8&quot; HB</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>5117307</td>
<td>H.H.C.S. Flanged 3/8&quot;-16nc x 1&quot;</td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>5143197</td>
<td>1/2&quot; T-800 Brass Ball Valve</td>
<td>1</td>
</tr>
<tr>
<td>14A</td>
<td>5143431</td>
<td>QC Manifold, 3/8&quot; Hose Barb, Straight</td>
<td>1</td>
</tr>
<tr>
<td>14B</td>
<td>5149034</td>
<td>Poly Swivel, 3/8&quot; Hose Barb</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>5301966</td>
<td>5-Nozzle Boom Assembly</td>
<td>1</td>
</tr>
</tbody>
</table>

Item 14A: for use with the Quick Connect Manifold with quarter turn caps.
Item 14B: for use on older Fimco Sprayers with threaded connections, as shown.

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### Fittings Connection

- **Existing fitting from an SK-61-12V unit**
- **Existing fitting from an SK-61-4R unit**
- **(Existing) Valve Stand & Handgun Holder**

**NOTE:** Remove cap on existing fitting to accommodate plumbing to the boom.
5-Nozzle Boom Assembly (#5301966) (with 3/8" Hose, 1" Sq. Tubing & AIXR11002VP Tips)

Opposite side has typical Hardware setup

See DETAIL Hinge

Nozzle Assemblies
- 2.3.1
- 2.3.2
- 2.3.3
- 2.3.4
- 2.3.5

Clamp
- Bag of 5: 5277729

DETAIL Clamp

Nozzle Assemblies

Clamp

Refer. #  Part #  Description  Qty
1  5277779  Boom Sub-Assembly (1" Sq. Tube)  1
1.1  5277838  Center Boom Tube 1" Sq.  1
1.2  5277834  LH Outer Boom Tube 1" Sq.  1
1.3  5277835  RH Outer Boom Tube 1" Sq.  1
1.4  5006345  3/8"-16 Flange Locknut (Grade F)  6
1.5  5006259  3/8"-16 Hex Whiz (Flange) Locknut  4
1.6  5019228  Extension Spring  2
1.7  5034169  H.H.C.S., 3/8"-16 x 2 1/2"  2
1.8  5046106  Square Cap, Black (1" Square Tube)  2
2  5277695  5-Nozzle Harness (3/8" & 1" Sq Tube)  1
2.1  5020534  Hose, 3/8"-1 Brd. x 21"  2
2.2  5020531  Hose, 3/8"-1 Brd. x 19-3/8"  2
2.3  5277689  "ELL" Nozzle Sub-Assembly (3/8")  2
2.3.1  5056113  Single Hose Shank (3/8" Hose)  1
2.3.2  5143543  Check Valve Strainer, 50 Mesh, 5 PSI  1
2.3.3  5016157  Seat Washer (QJ Caps)  1
2.3.4  5018371  Air-Induction XR Flat Spray Tip (AIXR11002VP)  1

2.3.5  5046219  Quick TeeJet Cap ONLY (Yellow)  1
2.4  5277690  "TEE" Nozzle Sub-Assembly (3/8")  2
2.4.1  5056114  Double Hose Shank (3/8" Hose)  1
2.4.2  5143543  Check Valve Strainer, 50 Mesh, 5 PSI  1
2.4.3  5016157  Seat Washer (QJ Caps)  1
2.4.4  5018371  Air-Induction XR Flat Spray Tip (AIXR11002VP)  1
2.4.5  5046219  Quick TeeJet Cap ONLY (Yellow)  2
2.5  5277691  "Cross" Nozzle Sub-Assembly (3/8")  1
2.5.1  5056115  Triple Hose Shank (3/8" Hose)  1
2.5.2  5143543  Check Valve Strainer, 50 Mesh, 5 PSI  1
2.5.3  5016157  Seat Washer (QJ Caps)  1
2.5.4  5018371  Air-Induction XR Flat Spray Tip (AIXR11002VP)  1
2.5.5  5046219  Quick TeeJet Cap ONLY (Yellow)  1
2.6  5051144  Hose Clamps, 3/8"  8
3  5277923  Boom Clamp Assembly (1 in Sq.)  5

See DETAIL Hinge

Based on the minimum overlap required to obtain uniform distribution with 110° tips and 20" spacing.

Suggested Minimum Spray Height: 16"-18" above what is being sprayed (to plant, not ground).

Optimum Spray Height: 20"

Page 4
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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 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.

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