257 Series Boom Assemblies

Model: 257-6 (5300424)  
6-Row Boom Assembly w/STD Nozzles

Model: 257-8 (5300658)  
8-Row Boom Assembly w/STD Nozzles

Model: 257-10 (5300426)  
10-Row Boom Assembly w/STD Nozzles

Model: 257-6-QJD (5300693)  
6-Row Boom Assembly w/QJD Nozzles

Model: 257-8-QJD (5300694)  
8-Row Boom Assembly w/QJD Nozzles

Model: 257-10-QJD (5300695)  
10-Row Boom Assembly w/QJD Nozzles

BEFORE RETURNING THIS PRODUCT FOR ANY REASON, PLEASE CALL  
1-800-831-0027  
IF YOU SHOULD HAVE A QUESTION OR EXPERIENCE A PROBLEM WITH YOUR  
FIMCO INDUSTRIES PRODUCT:  
1-800-831-0027  
BEFORE YOU CALL, PLEASE HAVE THE FOLLOWING INFORMATION AVAILABLE:  
SALES RECEIPT & MODEL NUMBER. IN MOST CASES, A FIMCO INDUSTRIES EMPLOYEE CAN  
RESOLVE THE PROBLEM OVER THE PHONE.

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 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.fimcoindustries.com or 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
[5004229  (11/18)]
Assembly

1. Mount the upright angles to the inside of the mounts on the carrier, using the supplied bolts and nuts. Attach the backrack to the upright angles using the square U-bolts and nuts. NOTE: The back rack can be mounted in either a high or low position and the uprights can be adjusted for desired height. Attach the U-Brackets as shown in the exploded view drawing.

2. Loosen the eye-bolts and remove the 7" hinge bolts. Line up the outer booms and reassemble the hinge bolt(s) through the outer boom yoke, the hinge casting and the spring connector. Tighten the eye-bolt until the spring is at the desired tension. Lock the eye-bolt in place with the inner whiz flange locknut. The 8 & 10 row booms use extensions on the outer booms. Bolt on the boom extensions using the bolts/nuts provided.

3. Hook an end of each boom chain on an "S" hook attached to the top bar tube. Place a slide clamp onto eacy outer boom. Place the other end of the boom chain between the ears of the slide clamp and secure with the bolt/nut. Level the outer booms by moving the slide clamps in or out as needed. Tighten the bolts in the slide clamps to hold the clamps in place.

4. Attach the appropriate hose assemblies onto each of the three boom sections, the center section has (5) nozzles with "ELL" connectors on each end. Starting at the center, the nozzles should be placed about 20" apart.

5. Join the designated feeder hose to each boom section and secure in place with hose clamps.

Tip Selection

Important Note:
The tips supplied as standard with this boom assembly are number AIXR11003VP tips, when you refer to the spray tip rate chart found in this owner’s manual, you will note that they have a GPA range of 10.7 to 17.8 GPA (Gallons Per Acre). This is tabulated at 5 MPH and from 15-40 psi and 20" nozzle spacing. These rates are based on water. Please read this tip selection section carefully before attempting to operate your boom assembly.

The selection of proper tips for the boom is determined by the gallon per acre (GPA) requirement, which is specified on the chemical label. The following characteristics also have a determining factor and must be considered:
1. Speed of spraying (MPH)
2. Boom nozzle spacing (specified in inches)
3. Solution weight and conversion factor (CF)
4. Gallons of solution to be sprayed per acre
5. Spraying pressure

Useful Formulas:
GPM—Gallons Per Minute
GPA—Gallons Per Acre
MPH—Miles Per Hour

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 and 300 feet. The speed chart indicates the number of seconds it takes to 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.

Testing the Sprayer

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

Add water to the tank and drive to the starting place for spraying. 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 valves.

Read the operating instructions and initially begin spraying by closing your ‘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. 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!!

Suggested Minimum Spray Heights

<table>
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<tr>
<th>Nozzle Type</th>
<th>Spray Angle</th>
<th>20° Spacing</th>
<th>30° Spacing</th>
<th>40° Spacing</th>
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<tbody>
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<td>65°</td>
<td>22°-24°</td>
<td>33°-35°</td>
<td>NR*</td>
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<tr>
<td>TeeJet (XR TeeJet)</td>
<td>80°</td>
<td>17°-19°</td>
<td>26°-28°</td>
<td>NR*</td>
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<td>12°-14°</td>
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<tr>
<td>FloodJet</td>
<td>120°</td>
<td>***</td>
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</tr>
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</table>

* Not Recommended

**** Wide angle spray tip is influenced by nozzle orientation. The critical factor is to achieve a double spray pattern overlap.
Spraying Solutions Other Than Water

Since all the tabulations are based on spraying water, which weights 8.34 lbs. per USA gallon, conversion factors must be used when spraying solutions which are heavier or lighter than water. To determine the proper size nozzle for the solution to be sprayed, first multiply the desired GPM or GPA of solution by the rate conversion factor. Then use the new converted GPM or GPA rate to select the proper size nozzle.

Example: Desired application rate is 20 GPA of 28% Nitrogen. Determine the correct nozzle size as follows:

\[
\text{GPA (Solution)} \times \text{Conversion Factor} = \text{GPA (Water)}
\]

\[
20 \text{ GPA (28%)} \times 1.13 = 22.6 \text{ GPA (Water)}
\]

The applicator should choose a nozzle size that will supply 22.6 GPA of water at the desired pressure.

Miscellaneous Conversion Factors

- One Acre = 43,560 square feet = 0.405 Hectare
- One Hectare = 2.471 Acres
- One Gallon Per Acre = 9.35 Liters Per Hectacre
- One Mile = 5280 Feet = 1610 Meters = 1.61 Kilometers
- One Gallon = 128 Fluid Ounces = 8 Pints = 4 Quarts = 3.79 Liters = 0.83 Imperial Gallons
- One Pound Per Square Inch = 0.069 bar = 6.895 Kilo-Pascals

Flow Rate

Nozzle flow rate varies with spraying pressure. In general, the relationship between GPM and pressure is as follows:

\[
\text{Flow Rate} = \text{Conversion Factor} \times \text{Pressure}
\]

This equation is explained by the illustration below. Simply stated, to double the flow through a nozzle, the pressure be increased four times.

Effect of Pressure on Volume

Higher pressure not only increases the flow rate of the nozzle, but it also influences the droplet size and the rate of orifice wear. As pressure is increased, the droplet size decreases and the rate of orifice wear is increased.

The values given in the tabulation section of this owner’s manual indicate the most commonly used pressure ranges for the associated spray tips.

Spray Angle and Coverage

Depending on the nozzle type and size, the operating pressure can have a significant effect on spray angle and quality of spray distribution. As shown above for an 8002 flat spray tip, as an example, lowering the pressure results in a smaller spray angle and a significant reduction in spray coverage.

Tabulations for spray tips shown in this owner’s manual are based on spraying water. Generally, liquids more viscous than water form relatively smaller spray angles. Whereas, liquids with surface tensions lower than water will produce wider spray angles. In situations where the uniformity of spray distribution is important, be careful to operate your spray tips within the proper pressure range.

NOTE: Suggested minimum spray heights for broadcast spraying are based upon nozzles spraying water at the rated spray angle.

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”
257 Series Booms (STD & QJD) Breakdown

6-Row

8-Row

10-Row

See Detail A

See Detail B

See Detail C
257 Series Booms (STD & QJD) Back Rack Breakdown

Back Rack w/Vertical Mounts

NOTE: Mounting angles (Item 10) are used when the boom is positioned in the "high" position. Otherwise the U-bracket (Item 11) is bolted to the top holes in the upright angle (Item 5).

Center “Back-Rack” Mounted
In the “Low” Position

Mounting Angles are NOT used

Center “Back-Rack” Mounted
In the “High” Position

Mounting Angles ARE used
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<th>Part #</th>
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The AIXR TeeJet Flat Spray Tip offers the benefits of obtaining excellent drift resistance without compromising spray coverage. Tips producing very coarse droplets do minimize drift but do not provide the same surface coverage as tips that produce smaller droplets. In some applications, inadequate coverage decreases the effectiveness of the applied chemicals.

**AIXR Features and Benefits**
- 110° wide, tapered flat spray angle with air induction technology for better drift management
- Made of 2-piece UHMWPE polymer construction which provides excellent chemical resistance, including acids, as well as exceptional wear life
- Compact size to prevent tip damage
- Removable pre-orifice
- Excellent for systemic products and drift management

**NOTES:**
All hoses in this boom assembly are part #5020569 (Item 1)
All hose clamps (2 per hose) are #5051114 (Item 2)

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**Typical Nozzle Assembly Configurations**

**Elbow Assembly**

- #5277717
- 5046113

- 5063132

**Tee Assembly**

- #5277718
- 5046113

- 5063132

**Cross Assembly**

- #5277719
- 5046113

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**Nozzle Assemblies consist of “Elbow”, “Tee” & “Cross” style nozzles.**

Assemblies include: Nozzle Body, Strainer, Seat Washer, AIXR11003VP Nozzles & Nozzle Cap
**After Spraying**

After use, fill your 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, 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.

**Winterizing your Sprayer**

It is essential that you winterize your sprayer to avoid damage and to allow for optimal performance. The winterization process should be undertaken before freezing conditions and/or after each season of use.

1. Verify that the tank is empty and rinsed out. Pour 1-2 gallons of antifreeze into the tank.
   A. 12-Volt Pump, use pink 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.*
   B. Roller Pump, use a solution of automotive antifreeze (containing a rust inhibitor) through the entire plumbing system.

2. Engage the pump and spray with the boom and spray gun (if applicable). Make sure that the antifreeze has been pumped through the entire system, including all spray nozzles.

3. Before spraying in the spring, it is recommended to flush the sprayer with fresh water to cleanse it of the antifreeze and any other buildup. It would also be beneficial to do a thorough inspection of all sprayer components before spraying.

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**NOTES:**
LIMITED WARRANTY FOR NEW FIMCO, INC.

WHO MAY USE THIS LIMITED WARRANTY. This limited warranty (the “Limited Warranty”) is provided by Fimco, Inc. to the original purchaser (“you”) of the Equipment (as defined below) from Fimco, Inc. or one of Fimco, Inc.’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, Inc. warrants that any registered 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, Inc. 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, Inc. or its authorized dealers; (3) damage or depreciation due to normal wear and tear; (4) defects or damage due to failure to follow Fimco, Inc.’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, Inc.’s reasonable control; (6) accessories, attachments, tools or parts that were not manufactured by Fimco, Inc., 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, Inc. 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, Inc., 1000 Fimco Lane, North Sioux City, SD 57049; and (2) make the Equipment available to Fimco, Inc. 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, Inc. shall, at its own cost, and at its option, either repair or replace the defective Equipment or part. Fimco, Inc. will pay for shipping and handling fees to return the repaired or replacement Equipment or part to you.

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