

# JOHN DEERE 320 AND 335 SKID-MOUNTED SPRAYERS



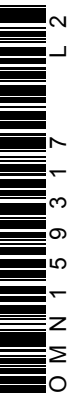
JOHN DEERE

## OPERATORS MANUAL JOHN DEERE 320 AND 335 SKID-MOUNTED SPRAYERS

OMN159317 L2 English

**OMN159317 L2**

LITHO IN THE U.S.A.  
ENGLISH





## To the Purchaser

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This new sprayer was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified, so you can easily find the information you need—whether it is operation, lubrication, trouble shooting, or service. Read the Table of Contents to learn where each is located. Use the alphabetical index for fast reference.

Should your sprayer require replacement parts go to your John Deere dealer where you can obtain Genuine John Deere Parts—accept no substitutes. Genuine John Deere Parts fit properly and insure satisfactory service because they are made from the original patterns and from the same materials as used in the new machines.

“Right-hand” and “left-hand” sides are determined by facing in the direction of sprayer forward travel.

Record your sprayer serial number in the space provided on page 39. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments.

The warranty on this sprayer appears on your copy of the purchase order which you should have received from your dealer when you purchased the sprayer.



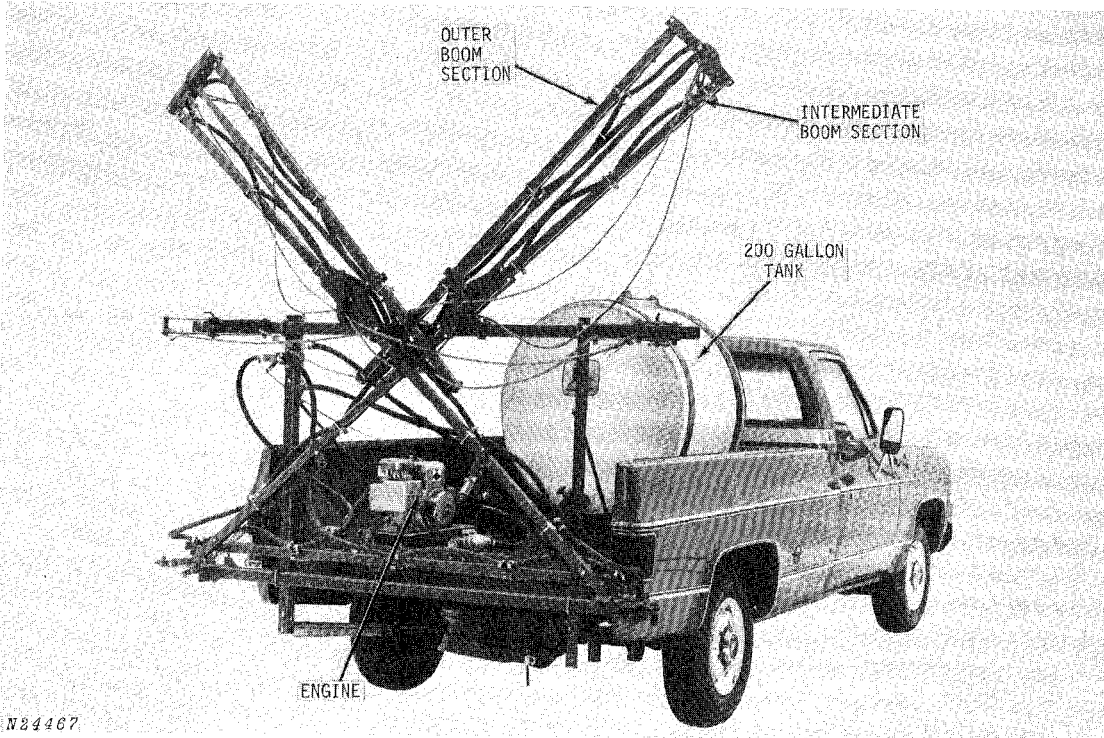
This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



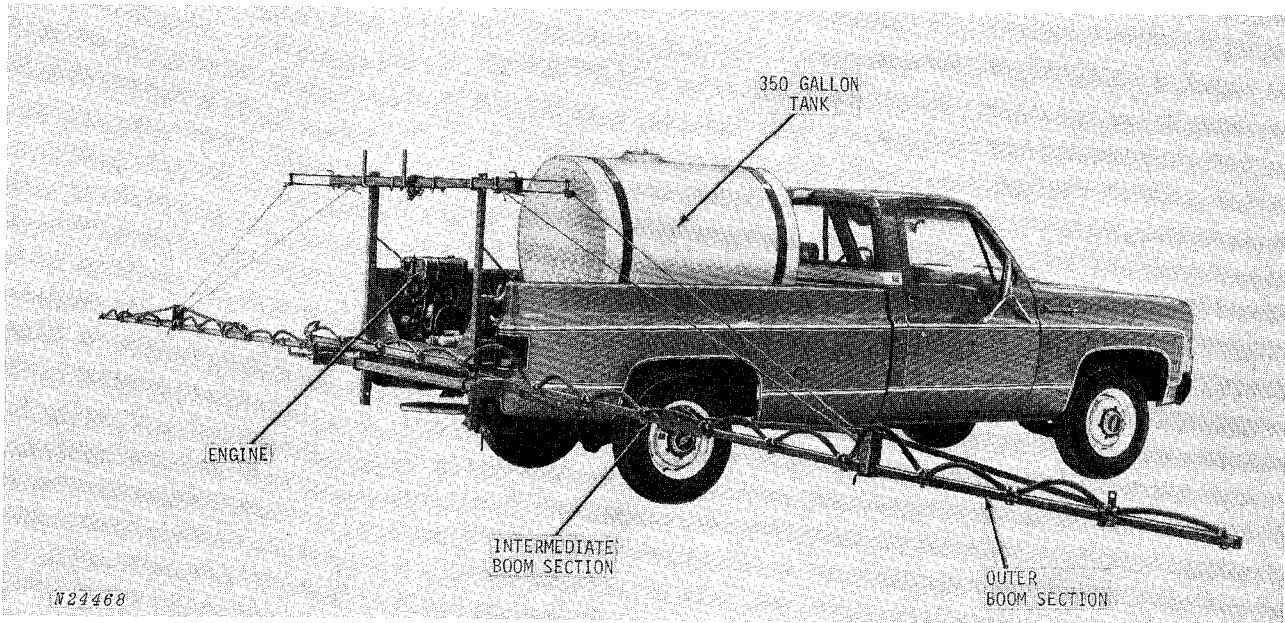
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*John Deere 320 Sprayer with 40-Foot Boom*



*John Deere 335 Sprayer with 40-Foot Boom*



# Operation

## MOUNTING SPRAYER

Place sprayer in a pickup truck or on a trailer, and bolt down the skid.

*NOTE: Sprayer filled with water will increase the weight distribution on the pickup as follows:*

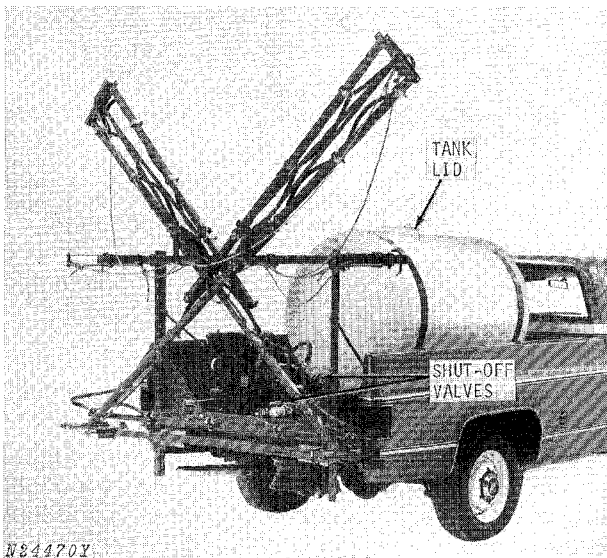
	335 Sprayer	320 Sprayer
Truck Rear Axle	3,200 pounds	1,850 pounds
Truck Front Axle	525 pounds	450 pounds

## ENGINE

Refer to the engine operator's manual for instructions covering operation, lubrication and maintenance of the engine.

## FILLING THE TANK

**IMPORTANT: Be sure to read carefully the directions printed on the chemical manufacturers labels when handling chemicals.**

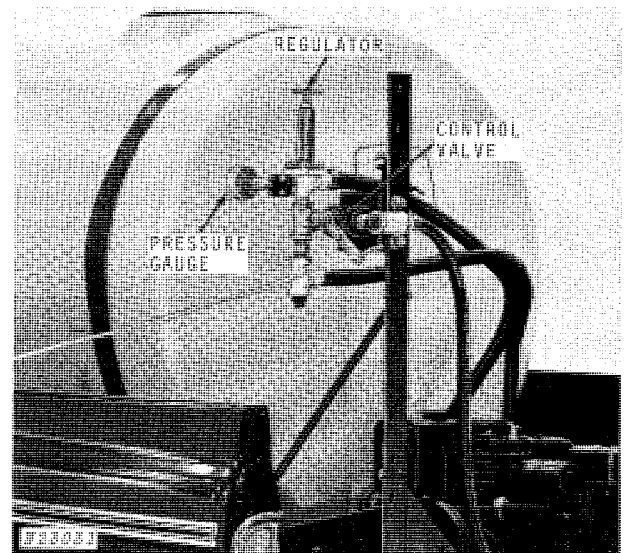


Remove the tank lid and fill with water. Add the

chemicals to be used as the tank is being filled. Open shut-off valves and as tank is being filled, start engine and operate pump to mix chemical thoroughly. Replace tank lid.

## CONTROLS

### Rear Mounted Single Section Ratchet Control Valve



The sprayer controls are located on the left hand upright support angle of the boom frame. A rope from the control valve to a convenient location close to the operator, controls the on-off position of the control valve. A solution flow indicator is a part of the control lever, when the arrow is pointing toward the ground the valve is in the off position. When the arrow is parallel with the ground the control is in the on position.

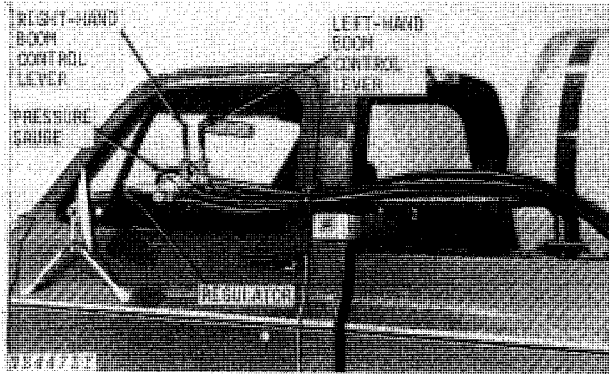
The pressure gauge shows the operating pressure. Regulate the operating pressure by turning the pressure regulator clockwise to increase and counter-clockwise to decrease the pressure.

**IMPORTANT: Be sure to read carefully the directions printed on the chemical manufacturers labels when handling chemicals.**

## CONTROLS—Continued

### Swing-Away Mast Controls (Optional Equipment)

#### Dual Section Control Valve



The dual section control valves located on the swing-away mast provides a convenient operating

location along with individual operation of left- and right-hand nozzle sections.

The pressure gauge shows the operating pressure. Regulate the operating pressure by turning the pressure regulator clockwise to increase and counter-clockwise to decrease the pressure.

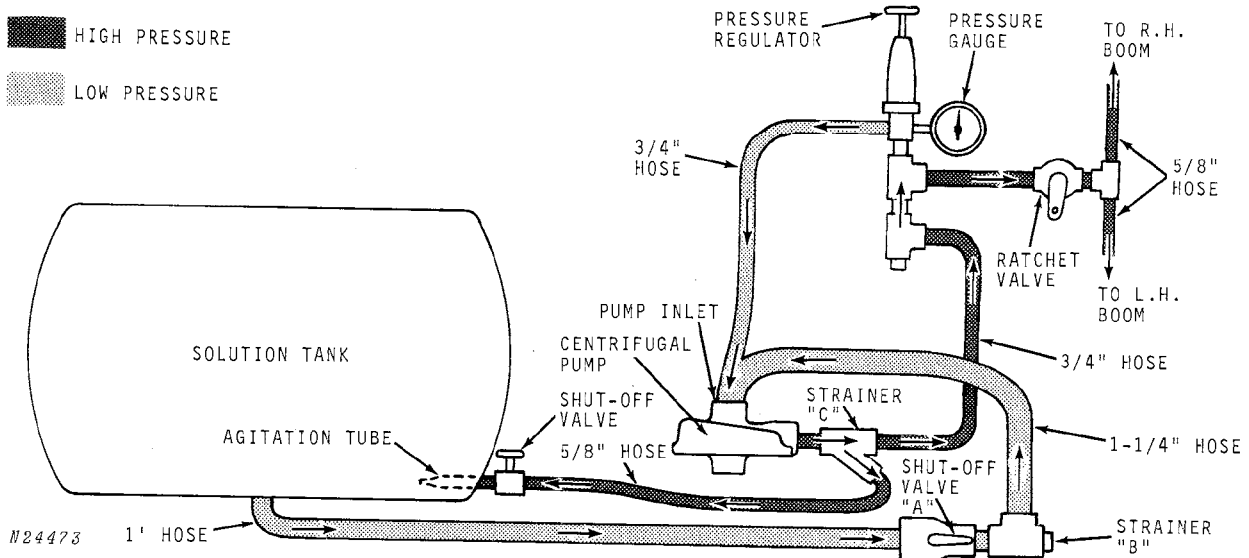
**IMPORTANT: Be sure to read carefully the directions printed on the chemical manufacturers labels when handling chemicals.**

#### Triple Section Control

A single section control valve can be used in addition to the dual section control valve to permit independent or simultaneous spraying of the left-, center-, and right-hand nozzle sections. See page 12.

## SOLUTION FLOW

### Rear-Mounted Single Section Control



The solution gravity feeds from the tank through the shut-off valve "A" and strainer "B" to the pump inlet. The strainer "B" filters the large impurities.

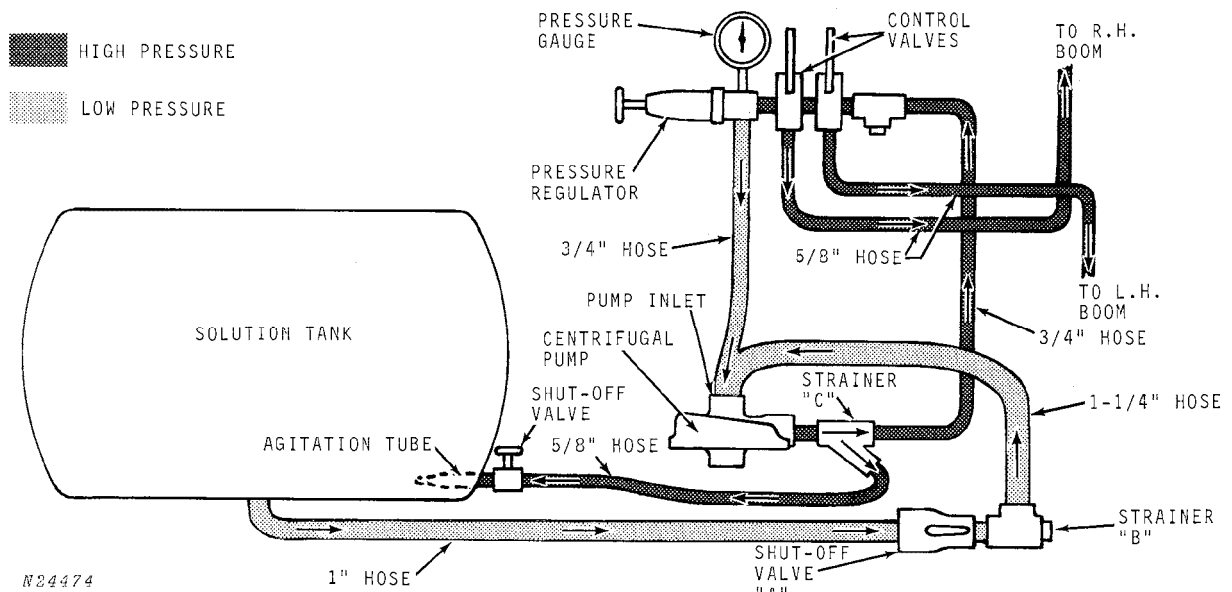
The solution is then pumped through the strainer "C", where smaller impurities are filtered, then to the pressure regulator and ratchet valve.

Some of the solution flushes the strainer "C" and goes back to the tank through the agitation port in the tank which keeps the solution agitated in the tank.

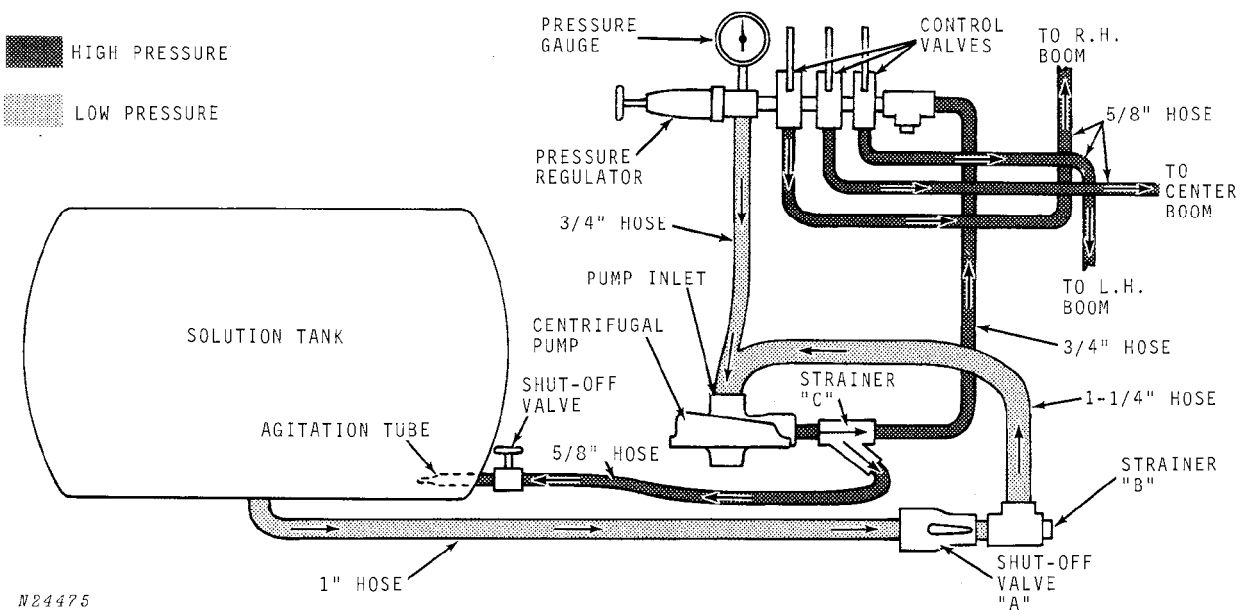
As the ratchet valve is operated the solution flows to the nozzles and then to the ground under pressure.

Some solution will go through the pressure regulator and flow back through the pump inlet and repeat the process. The pressure regulator controls pressure to the booms.

### Dual and Triple Section Control



Dual Section Control



Triple Section Control

The solution gravity feeds from the tank through the shut-off valve "A" and strainer "B" to the pump inlet. The strainer "B" filters the large impurities.

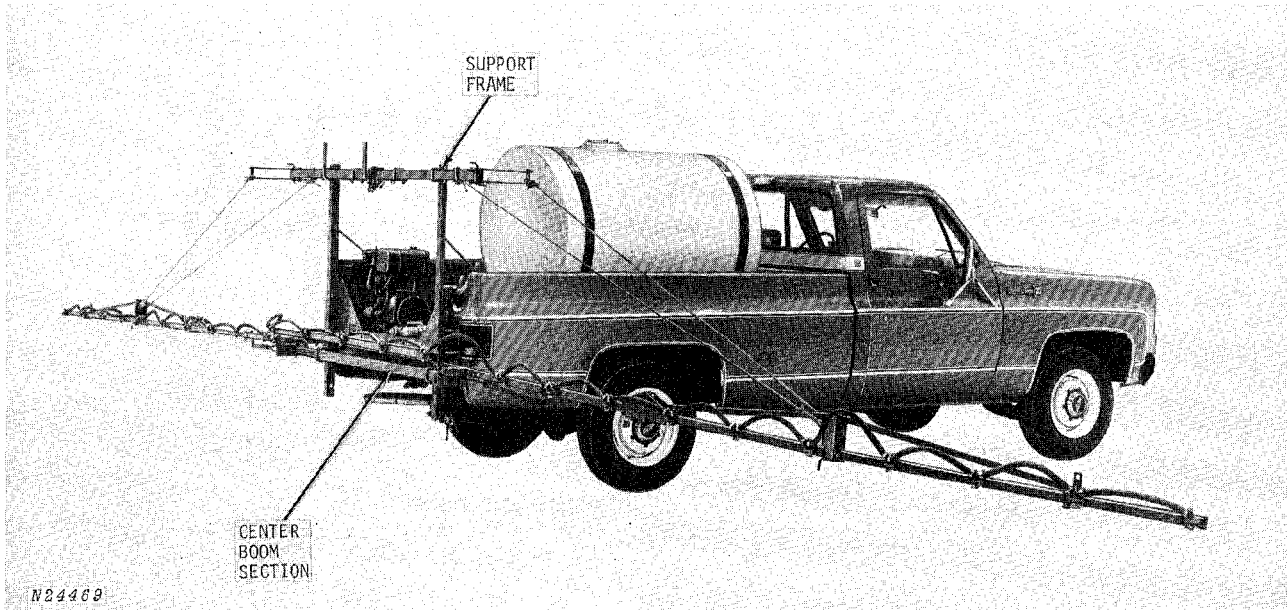
The solution is then pumped through the strainer "C", where smaller impurities are filtered, then to the control valves and pressure regulator.

Some of the solution flushes the strainer "C" and goes back to the tank through the agitation port in the tank which keeps the solution agitated in the tank.

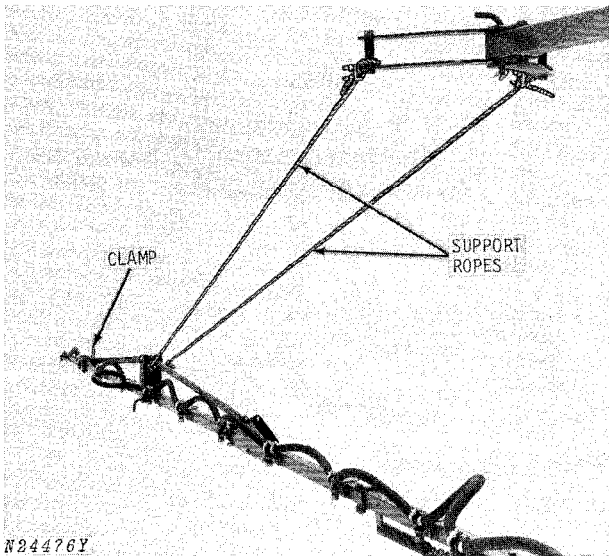
As the control valves are operated the solution flows to the nozzles and then to the ground under pressure.

Some solution will go through the pressure regulator and flow back through the pump inlet and repeat the process. The pressure regulator controls pressure to the booms.

## BOOMS



335 Skid Mounted Sprayer with 40-Foot Boom



### Leveling Boom

To adjust outer section of boom so it is in a straight line with the intermediate section, loosen bolts in clamps. Lift outer section until it is in a straight line with intermediate section and tighten bolts.

To level the intermediate and outer boom sections shorten or lengthen the support ropes.

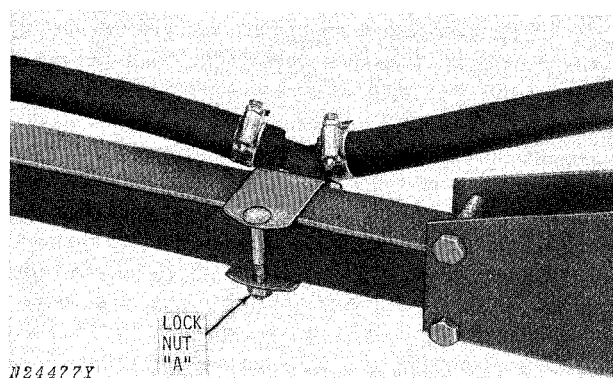
### Boom Height

To adjust operating height of boom, move center boom section up or down on boom support frame.



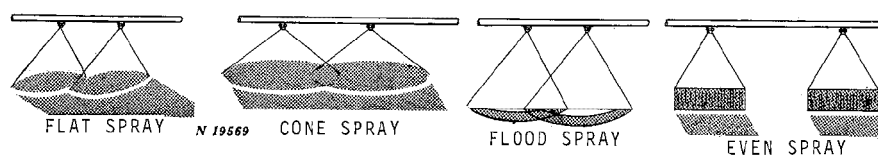
## NOZZLES

### Nozzle Adjustment



The nozzles may be adjusted for different row spacings. Loosen lock nut "A," and slide the nozzle clamp on the boom to the desired spacing and tighten lock nut "A."

### Nozzle Tips



Nozzle tips are available in four types: Flat, cone, flood or even spray patterns as shown in the illustration above. These tips are available in a number of different hole or orifice sizes to provide a variety of rate applications. Flat nozzles are normally used for weed control, broadcast applications or pre-emergence applications. Cone nozzles are normally used for insect control and even nozzles are used for banding. Flood nozzles are used for broadcast spraying.

Adjust the even or flat spray nozzles so that the slot in the bottom of each nozzle is at right angles to the direction of travel.

For nozzle tip selection, see Nozzle Tip Calculator page 9.

### Nozzle Strainers

Nozzle strainers are available in 50 and 100 mesh screens. Both are of stainless steel. See illustration on page 16.

### Nozzle Check Valves

Nozzle check valves are available in two styles. Stainless steel check valve with no screen, are used when applying a high volume rate of application. Stainless steel or brass check valve with 50 mesh screen, are used when high volume rate of application is not required. See illustration on page 16.

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