

# **32A PULL-TYPE SPRAYER**



## **OPERATORS MANUAL 32A PULL-TYPE SPRAYER**

OMB25282 I5 English

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ENGLISH



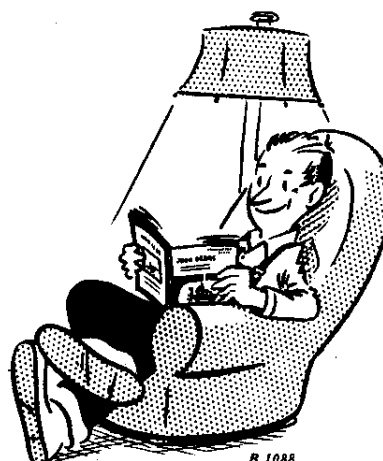
## TO THE PURCHASER

Your new John Deere Sprayer is efficient and dependable. It will give long and efficient service if given proper care and operation.

This operator's manual contains information on the proper operation, adjustment, and maintenance of your new sprayer.

When in need of parts, see your John Deere dealer. He will furnish genuine John Deere Parts and prompt and efficient service in the field or in the shop.

Right-hand and left-hand reference is determined by standing at the rear of the sprayer and facing the direction of travel.



Study this manual carefully. Keep it handy, in a safe place, for future reference.

### John Deere 32A Pull-Type Sprayer

Date Purchased . . . . .

#### Booms

- 6-Row . . . . . ☐
- 8-Row . . . . . ☐
- 8-Row Heavy-Duty . . . . . ☐
- 12-Row (40-Ft.) . . . . . ☐

#### PTO PUMP

- 8-Roller Ni-Resist . . . . . ☐
- 6-Roller Ni-Resist . . . . . ☐
- 6-Roller Grey Iron . . . . . ☐
- Piston Pump . . . . . ☐

#### WIDE-SPRAY JET

#### ROW-CROP DROPS

- 10 Inches Long . . . . . ☐
- 18 Inches Long . . . . . ☐
- 30 Inches Long . . . . . ☐

HAND GUN — Light Duty ☐ Regular Duty ☐ Heavy Duty ☐

25-Foot Hose . . . . . ☐

50-Foot Hose . . . . . ☐

High Pressure Hose . . . . . ☐

BOOM EXTENSION NOZZLES . . . . . ☐

(To be filled in by purchaser)

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## SPECIFICATIONS

### TYPE

The 32A Sprayer is a two wheel, pull-type sprayer.

### TANK

200-gallon, translucent fiber glass.

### BOOMS

Regular—8-row booms (27-foot 1/2-inch) to cover eight 40-inch rows.

Optional—12-row booms (40-foot 4-1/2-inch) to cover twelve 40-inch rows, 8-row heavy duty booms (27-foot 1/2-inch) to cover eight 40-inch rows, or 6-row booms (20-foot 4-1/2-inch) to cover six 40-inch rows.

Booms are made of square tubing. Nylon nozzles are clamped to the booms. Rubber boom hoses are connected to the nozzles. The nozzle clamps are adjustable for row widths of 24 to 40 inches. Spacing between nozzles can be adjusted from 12 to 20 inches. Booms are made in three sections with the center section stationary and the outer sections mounted on four-way hinges.

### PTO PUMP

Regular—Ni-Resist (nickel-iron alloy) eight-roller pump.

Optional—Ni-Resist (nickel-iron alloy) six-roller pump, grey iron six-roller pump, or a twin piston pump.

### BOOM CONTROL

The boom control includes a two-position selector valve. Either half of the total boom coverage may be

operated independently of the other half.

### WIDE-SPRAY JET

A wide-spray jet is available as optional equipment in lieu of the booms. It is used for broadcast spraying grains, pastures, etc.

### NOZZLE TIPS

The nozzle bodies, nozzle caps and strainer bodies are made of nylon. The nozzle and line strainer screen are made of stainless steel. The nozzle tips are made of brass or stainless steel.

### HAND GUN

A light, regular, or heavy duty handgun and controls may be ordered in lieu of the booms and boom controls.

Hand guns may also be used in conjunction with or independently of the boom type or wide-spray jet type sprayers. The hand gun is available with either a 25-foot or a 50-foot hose.

High pressure hoses are available for the hand guns.

The hand gun may be used for spraying crops, animals, fence rows, etc.

### ROW-CROP DROPS

Row-crop drops (10, 18, or 30 inches long) are available for the booms. Each row-crop drop has two nozzles which can be turned up to spray the underside of the leaves, or down to spray the ground between the rows.

#### BOOM EXTENSION NOZZLES

These nozzles are used as boom extensions to expand the over-all width of boom coverage approximately 7 feet on each side of the regular spray pattern.

#### TRAILER CLEARANCE

30-3/4 inches with 7.60 x 15 tires.  
Distance from nozzle tip to ground when boom is in working position:  
Minimum— 12 inches  
Maximum—36 inches

#### NO. 2 LAY-BY BOOM

Designed for use during the late growing season for controlling weeds with liquid herbicide.

Covering four rows at a time, this boom consists of five runners carrying one nozzle each. The nozzles are mounted so the spray pattern covers the entire area between the rows.

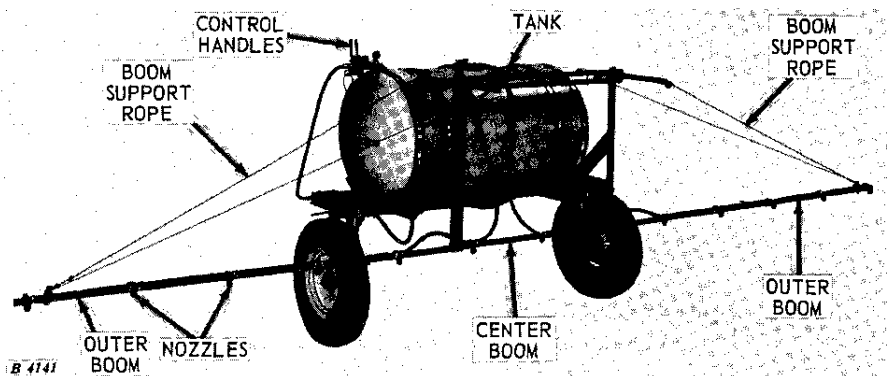
The lay-by boom may be attached to the John Deere 32A Sprayer equipped with the regular boom controls. The tractor pulling the sprayer must be equipped with a remote hydraulic cylinder that conforms to ASAE-SAE standards.

#### NO. 4 POST EMERGENCE OILING BOOM

Designed to apply post emergence herbicide oils to cotton or similar crops for weed control.

Covering four rows at a time, this attachment can be mounted on John Deere 2010, 3010, 3020, 4010, 4020, 530, 630, 730, 520, 620, and 720 Tractors equipped with a front rock-shaft. With these tractors the attachment is used in conjunction with the John Deere 32A Sprayer equipped with a boom control.

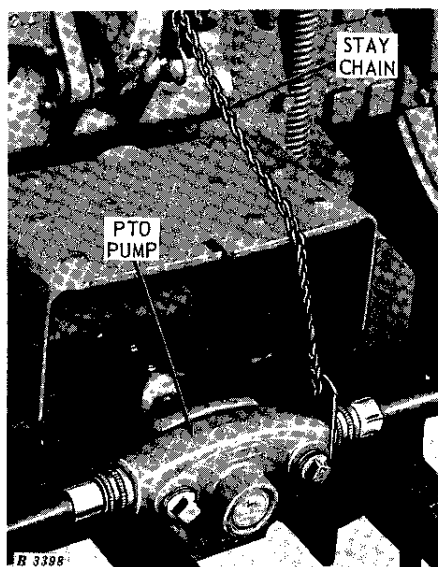
*(Specifications and design subject to change without notice.)*



32A Sprayer with Booms in Working Position

## OPERATION

### HITCHING TO TRACTOR



Adjust the tractor drawbar height to approximately 15 inches and set the drawbar in the short position.

Attach the drawbar clevis to the tractor drawbar.

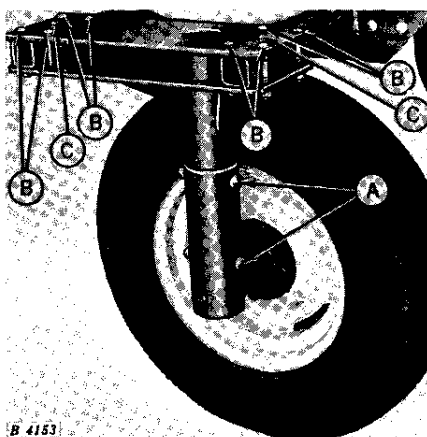
Install the pump on the tractor PTO shaft.

Arrows on the pump ports indicate proper rotation.

Place the key between the splines on the PTO shaft and tighten the set screws against the key to secure pump on shaft.

Attach the stay chain to some fixed point on the tractor and adjust the length so it will hold pump in a horizontal position.

### ADJUSTING SPRAYER WHEEL TREAD



The wheel tread of the sprayer can be set on either 56 or 84 inches to accommodate row spacings of from 24 to 40 inches.

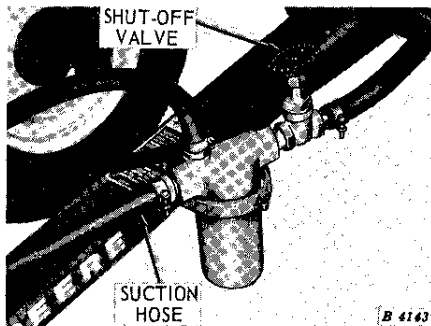
To change the wheel tread remove pins "A." Turn the wheels to the inside of the trailer frame for 56-inch wheel tread, or to the outside of the trailer frame for 84-inch wheel tread. Replace pins "A."

Additional adjustment of either 52 or 80 inches can be made as follows:

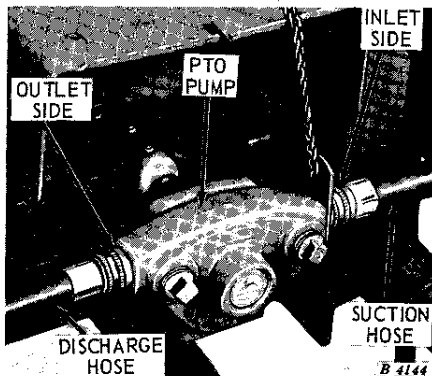
Loosen bolts "B," remove bolts "C," move wheel mounting bracket inward 2 inches, replace bolts "C," tighten bolts "B."

## FILLING TANK WITH THE PTO PUMP

The PTO pump can be used to fill the tank.



Turn the shut-off valve clockwise to the "OFF" position.



Disconnect the suction hose from the PTO pump.

Obtain one length of 1-inch I.D. hose not over 50 feet long, with a female hose connection on one end and a strainer on the other end. Connect the female hose connection to the PTO pump where the suction hose was removed. Place the end of the hose with the strainer into the water reservoir or supply.

*NOTE: Do not place pump at height of more than 20 feet above source of water.*

Disconnect the discharge hose from the PTO pump.

Obtain a 3/4-inch hose of sufficient length to reach from the PTO pump to the tank. The 3/4-inch hose must have a female hose connection on one end. Connect the female hose connection to the PTO pump where the discharge hose was removed. Place the other end of the hose in the tank. Start the PTO pump.

*NOTE: The hoses used for filling the tank do not have to be chemical resistant.*

**CAUTION:** The resins in the fiber glass tank will deteriorate by prolonged exposure to strong alkaline materials such as aqua-ammonia. After strong alkaline materials are used, immediately flush out the tank and remove the lid until all vapors have escaped.

**WARNING**

To avoid backward tip-over:

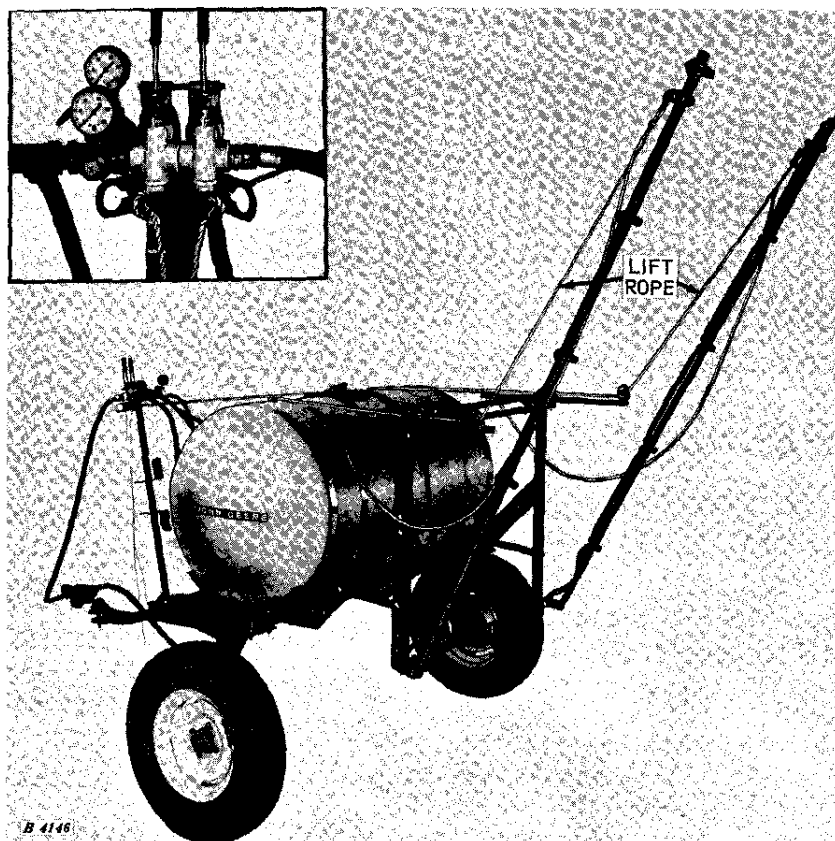
(1) Hitch trailer drawbar to tractor before filling tank.

(2) When unhitching trailer drawbar from tractor with liquid in tank or the 40-ft. booms in transport position, hold and handle the drawbar as firmly and as close to ground as possible.

(3) If trailer is equipped with optional safety legs, lower them into proper position before unhitching trailer drawbar from tractor.

## 6 Operation

### TRANSPORTING—6-ROW OR 8-ROW (STANDARD) BOOMS



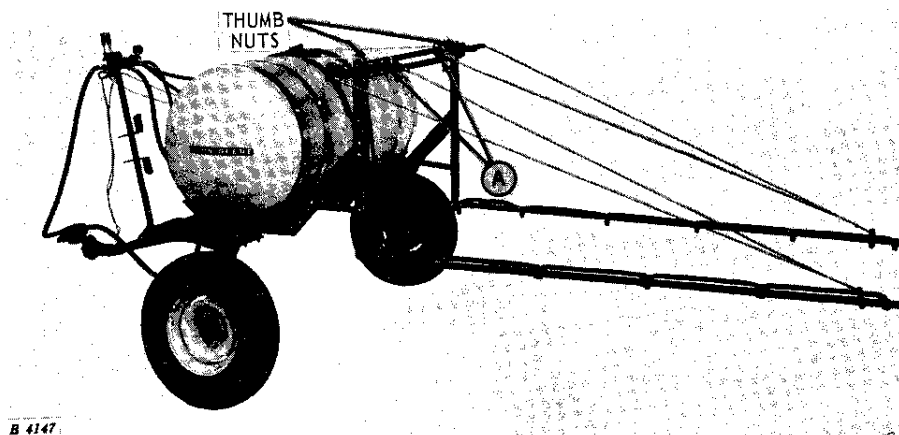
*Lift Ropes Holding Booms up in Transport Position*

To transport the sprayer short distances pull the booms up with the lift rope. Reposition the inner rope stops on the lift rope, so that when the rope stops are inserted in the notches of the lift rope bracket, the booms will clear the ends of the boom frame.

To reduce transport height, reposition rope stops, swing booms rearward. If sprayer is equipped with eight-row booms, tie booms together with rope provided.

The booms may be swung straight back for transporting. This method of transporting is useful when the sprayer is equipped with row-crop drops.





*Booms Straight Back in Transport Position*

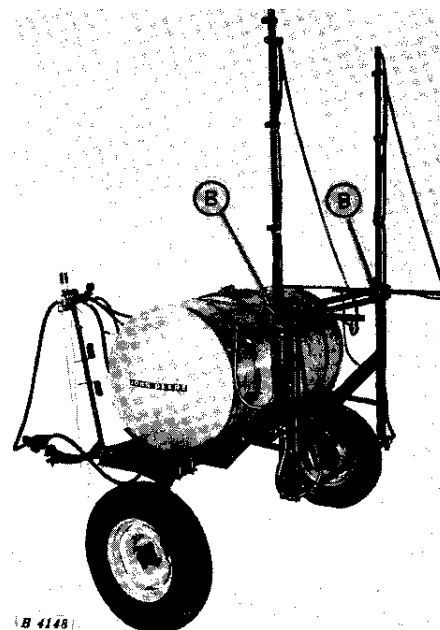
To position the booms straight back, remove the two thumb nuts and pins "A," swing the boom frame end around and install pins "A" as shown.

When transporting the sprayer over rough ground, or for a long distance, secure the booms to the boom frame as follows.

Raise the outer boom sections straight up to the end of the boom frame and place them in the transport brackets. Secure the booms in place with pins "B."



When transporting the sprayer on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



*Booms Locked up in Transport Position*

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