

# 25A 3-POINT HITCH SPRAYER



### **OPERATORS MANUAL**

25A 3-POINT HITCH SPRAYER

OMB25337 G6 English

OMB25337 G6

LITHO IN THE U.S.A. 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 is provided to furnish 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 25A 3-POINT	HITCH SPRAYER ate Purchased	
Optional Equipment		
TANK 100 Gallon		
BOOMS 6-Row	····	
8-Row		
6-Roller Ni-Resist	····	
Piston Pump		
25-Foot Hose		
High Pressure Hand GunBOOM EXTENSION NOZZLESWIDE-SPRAY JET	<i></i> <u> </u>	
ROW-CROP DROPS 10 Inches Long.		
18 Inches Long		

(To be filled in by purchaser)



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### **SPECIFICATIONS**

#### TYPE

The 25A Sprayer is a 3-point hitch sprayer.

It can be used, less booms, with a 493, 493A, 494, 494A, 495, 495A, 694, 694A, 694AN, 695, 695A, or 894A Planter; 184, 186 or 186W Fertilizer Unit for pre-emergence spraying.

#### TANK

Regular - 150-gallon translucent fiber glass.

Optional - 100-gallon translucent fiber glass.

#### **BOOMS**

Regular - 6-row booms (21 feet, 8 inch) to cover six 40-

inch rows.

Optional - 8-row booms (28 feet, 4 inch) to cover eight 40-inch rows.

Booms are made of square tubing. Nylon nozzles are clamped to the booms. Rubber 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 - Six-roller grey iron pump.

Optional - Six- or eight-roller niresist pump, piston or centrifugal pump.

#### BOOM CONTROL

The boom control is a two-position selector valve. Either half of the total boom coverage may be operated independently of the other half.

#### WIDE-SPRAY JET-ATTACHMENT

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

### HAND GUN-ATTACHMENT

A light, regular, or heavy duty hand gun 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. Each hand gun is available with either a 25-foot or a 50-foot boss.

High pressure hoses are available.

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

# HIGH CLEARANCE BOOM FRAME —ATTACHMENT

The high clearance boom frame provides additional crop clearance where required.

#### NOZZLE TIPS

Nozzle tips are made of brass or stainless steel. B11875B brass nozzle tip is regular equipment. All other nozzle tips are optional equipment.

# ROW-CROP DROPS—ATTACHMENT

Row-crop drops (10-, 18-, or 30-inch long) are available for the six-or eight-row 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—ATTACHMENT

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.

#### OVER-ALL TRANSPORT DIMEN-SIONS WITH BOOMS

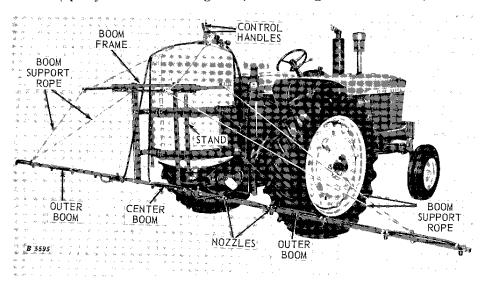
Transport Width: Approximately 7 feet.

Transport Height with Booms Vertical:

6-Row Boom: 13 feet 8 inches

8-Row Boom: 17 feet

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



25A Sprayer with Six-Row Booms in Working Position



### **OPERATION**

#### PREPARING THE TRACTOR

For complete operating instructions concerning the tractor refer to the tractor operator's manual.

#### CENTER LINK

Remove the center link from the tractor 3-point hitch.

#### BELT PULLEY

Remove the rear-mounted belt pulley from the tractor, if the tractor is so equipped.

#### TIRE PRESSURE

Consult your tractor operator's manual for front and rear tire pressure.

420, 430, OR 1010 SERIES TRACTORS

NOTE: The 150 gallon tank is not approved for use with the 420, 430, or 1010 Series Tractors.

On 1010 Tractors use 300 pounds of front end weight. On 420 or 430 Tractors, add front end weight as necessary for front end stability.

Adjust the tractor hydraulic system so integral cylinders are parallel and the lift arms operate together. See the tractor operator's manual.

Lock out the load-and-depth control system.

Attach the lift links to the inner holes on the rockshaft lift arms.

Pin the sway stop chains to the outer holes on each side of the center hole in the drawbar bracket.

2010 SERIES TRACTORS

Set the 3-point hitch lift links at their maximum length. See the tractor operator's manual.

Install sway blocks to eliminate all side sway when operating sprayer.

Adjust tractor hydraulic system so integral cylinders are parallel and the lift arms operate together. See tractor operator's manual.

Set the load-and-depth control selector lever in the "D" position.

#### 1020 OR 2020 SERIES TRACTORS

NOTE: The 150 gallon tank is not approved for use with the 1020 or 2020 Tractors equipped with 12.4 or smaller tires.

Use a minimum of 200 pounds front end weight on the John Deere 1020RU and LU Series Tractors and a minimum of 100 pounds on the front of the 1020 HU Tractor.

Set sway blocks on both tractors in the down position.

Set the load-and-depth control selector lever in the "D" position.

2510, 3010, 3020, 4010, OR 4020 SERIES TRACTORS

Set the selector lever in the "D" position.

Install sway blocks to eliminate all side sway when operating sprayer.

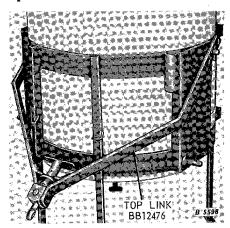
#### 520 OR 530 SERIES TRACTORS

Instail sway locks to eliminate all side sway when operating sprayer.

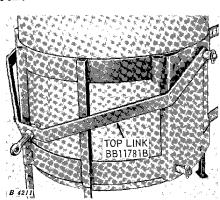
#### ATTACHING SPRAYER TO TRACTOR

TOP LINK

The correct top link, depending upon the make and model of the tractor, must be attached to the sprayer. This top link takes the place of the center link removed from the tractor 3-point hitch.



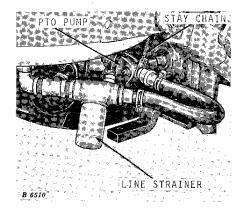
The BB12476 top link illustrated above must be installed on the sprayer when using the following tractors: John Deere 520, 530, 1010 Tricycle, 1020, 2010, 2020, 2510, 3010, 3020, 4010, or 4020; Ford 500; Farmall 706 or 806; or Massey Ferguson 65D.



The BB11781B top link must be installed on the sprayer when using the following tractors: John Deere 420, 430, or 1010RS; Ferguson; small Ford; or small Massey Ferguson.

PTO PUMP

Back the tractor up to the sprayer.



Install the pump on the tractor PTO shaft to obtain clearance between the draft links.

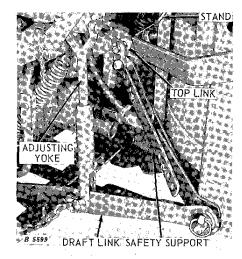
Arrows on the pump ports indicate proper rotation.

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.

#### 6 Operation

### HOOKUP AND ADJUSTING SAFETY SUPPORTS



Attach the top link and one end of each safety support to the tractor where the center link was removed.

NOTE: On a tractor with only one connecting hole for the center link, attach the safety support on the same pin that holds the top link. On a tractor with more than one connecting hole for the center link, use pin furnished and attach safety support as illustrated above.

Attach the tractor draft links and the other end of each safety support to the sprayer.

Adjust the safety supports so the sprayer cannot be lowered far enough to damage the tank.

CAUTION: Do not operate sprayer so low that all the weight of the sprayer is on the safety supports.

Remove the pin and raise each stand. Replace the pin to lock each stand in the raised position.

#### LEVELING SPRAYER

Level the sprayer tank fore-andaft by adjusting the length of the sprayer top link. Level the sprayer tank laterally by adjusting the righthand draft link.

NOTE: Refer to tractor operator's manual for adjustment of draft link when leveling sprayer.

# DETACHING SPRAYER FROM TRACTOR

Remove the pin and lower each stand. Replace the pin to lock each stand in the lowered position.

Detach the draft links, top link, and safety supports.

Remove the pump from the tractor PTO shaft.

#### FILLING THE TANK

Open the lid and fill the tank with water. Add the chemical to be used as tank is being filled. Close the lid. After tank is filled, operate the spray pump to mix chemical thoroughly.

Agricultural chemicals can be dangerous! Improper selection or use can injure persons, animals, plants, soils or other property. BE SAFE: Select the right chemical for the job. Handle and apply it with care. Follow instructions of the chemical manufacturer.



### SAFETY SUGGESTIONS



Be careful during the operation of the sprayer, to avoid injury to yourself and the people working with you.

Only one person—the operator—should be permitted on the tractor platform when the tractor and sprayer are in operation.

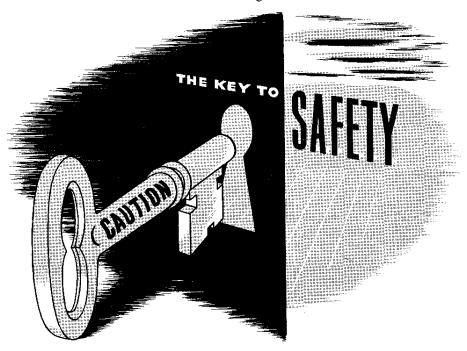
When transporting the sprayer on road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Be careful when operating on hillsides because the tractor may tip sideways if it strikes a hole, ditch or other irregularity.

Refuel the tractor only when the engine has been shut off. Do not smoke or use an oil lantern when working around flammable fuel, especially when refueling the tractor.

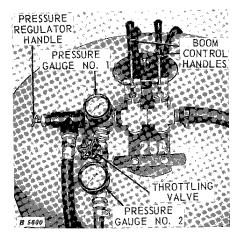
Agricultural chemicals can be dangerous! Improper selection or use can injure persons, animals, plants, soils or other property. BE SAFE: Select the right chemical for the job. Handle and apply it with care. Follow instructions of the chemical manufacturer.

Finally, remember this: An accident is usually caused by someone's carelessness, neglector oversight.



#### SPRAYER FOR BOOM OPERATION

#### CONTROLS



The spray delivery to either half of the sprayer is regulated by the control handles.

When both handles are forward and horizontal, both sides of the sprayer are in operation.

When the right-hand handle is forward and horizontal and the lefthand handle is vertical, the righthand side of the sprayer is in operation.

When the left-hand handle is forward and horizontal and the righthand handle is vertical, the lefthand side of the sprayer is in operation.

Placing both handles in the position shuts off the vertical sprayer.

Gauge No. 1 shows the operating pressure. Gauge No. 2 shows the agitation pressure.

Regulate the operating pressure (gauge No. 1) by turning the pressure regulator handle clockwise to increase the operating pressure and counterclockwise to decrease the operating pressure.

Regulate the agitation pressure (gauge No. 2) by turning the throttling valve handle counterclockwise to increase the agitation pressure and clockwise to decrease the agitation pressure.

NOTE: The agitation pressure should never be less than 30 psi.

CAUTION: Never regulate the pressure unless the sprayer is in operation. Do not operate the sprayer at pressures so high that the maximum pressure gauge capacity will be exceeded when the flow to the booms is shut off.

CAUTION: Do not operate the boom at pressure in excess of 150 psi.

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