



29B PULL-TYPE SPRAYER



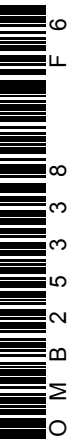
JOHN DEERE

OPERATORS MANUAL 29B PULL-TYPE SPRAYER

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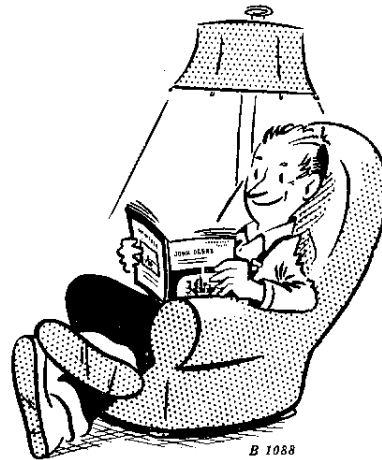
TO THE PURCHASER

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.



B 1088

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

John Deere 29B Pull-Type Sprayer	
Date Purchased	<input type="checkbox"/>
110-Gallon Fiber Glass Tank	<input type="checkbox"/>
Booms	
6-Row	<input type="checkbox"/>
8-Row	<input type="checkbox"/>
8-Row Heavy-Duty	<input type="checkbox"/>
12-Row (40-ft.)	<input type="checkbox"/>
PTO PUMP	
8-Roller Ni-Resist	<input type="checkbox"/>
6-Roller Ni-Resist	<input type="checkbox"/>
6-Roller Grey Iron	<input type="checkbox"/>
Piston Pump	<input type="checkbox"/>
Centrifugal Pump	<input type="checkbox"/>
WIDE-SPRAY JET	<input type="checkbox"/>
ROW-CROP DROPS	<input type="checkbox"/>
10 Inches Long	<input type="checkbox"/>
18 Inches Long	<input type="checkbox"/>
30 Inches Long	<input type="checkbox"/>
HAND GUN —light duty <input type="checkbox"/> regular duty <input type="checkbox"/> heavy duty <input type="checkbox"/>	
25-Foot Hose	<input type="checkbox"/>
50-Foot Hose	<input type="checkbox"/>
Hand Gun with High Pressure Hose	<input type="checkbox"/>
Boom Extension Nozzles	
5-Gallon Nozzle Tips	<input type="checkbox"/>
10-Gallon Nozzle Tips	<input type="checkbox"/>
15-Gallon Nozzle Tips	<input type="checkbox"/>
<i>(To be filled in by purchaser)</i>	



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SPECIFICATIONS

TYPE

The 29B Sprayer is a two-wheel pull-type sprayer.

TANK

110-Gallon translucent fiber-glass.

BOOMS

Regular—6-row booms (20 feet 4-1/2-inch) to cover six 40-inch rows.

Optional—8-row standard or heavy-duty booms (27 feet 1/2-inch) to cover eight 40-inch rows or 12-row booms (40 feet 4-1/2-inch) to cover twelve 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.

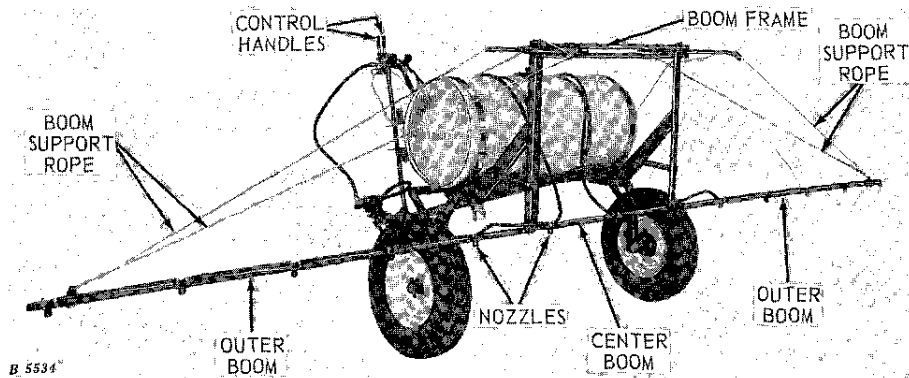
PTO PUMP

Regular—Six-roller grey iron pump.

Optional—Six- or eight-roller ni-resist pump, piston pump 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.



29B Sprayer with six-row booms in working position

WIDE-SPRAY JET

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.

NOZZLE TIPS

Nozzle tips are made of brass or stainless steel. They are not included with the sprayer and must be ordered separately as required for different rates of application.

HAND GUN

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 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 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

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 7.60x15 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 29B Pull-Type 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 520, 530, 620, 630, 720, 730, 2010, 2020, 2510, 3010, 3020, 4010, and 4020 Tractors equipped with a front rockshaft. With these tractors the attachment is used in conjunction with the John Deere 29B Sprayer equipped with a boom control.

OVER-ALL TRANSPORT DIMENSIONS WITH BOOMS

Transport Width: Approximately 7 feet.

Transport Height with Booms Vertical:

6-Row Boom: Minimum 9 feet 6 inches

Maximum 11 feet 6 inches

8-Row Boom: Minimum 13 feet

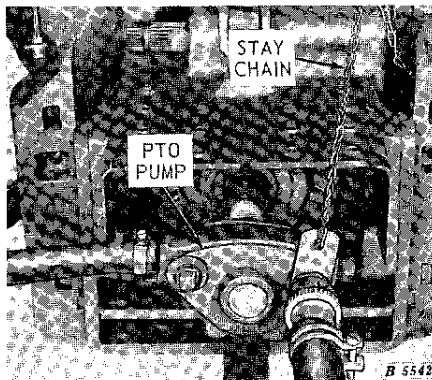
Maximum 15 feet

(Specifications and design subject to change without notice.)



OPERATION

HITCHING TO TRACTOR



Adjust the tractor drawbar height to approximately 15 inches.

Attach the drawbar clevis to the tractor drawbar.

Install the pump on the tractor PTO shaft.

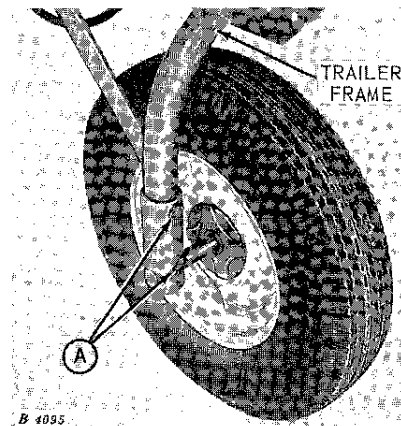
Arrows on the pump ports indicate proper rotation.

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.

NOTE: After the first few hours of operation tighten the tank hold-down straps.

ADJUSTING WHEEL TREAD



The wheel tread of the sprayer can be set on either 51 or 75 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 51-inch wheel tread, or to the outside of the trailer frame for 75-inch wheel tread. Replace pins "A."

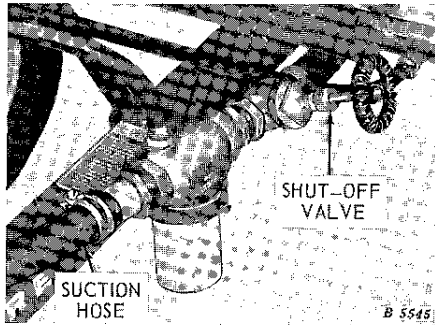
WARNING

To Avoid Backward Tip-Over:

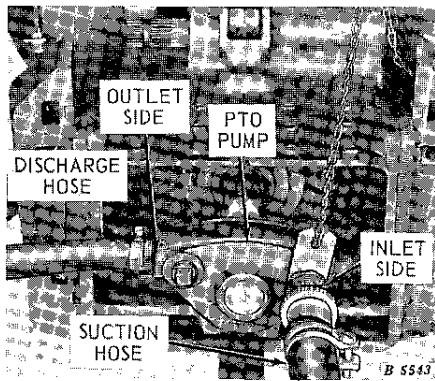
- (1) Hitch Trailer Drawbar to Tractor Before Filling Tank.
- (2) When Unhitching Trailer Drawbar from Tractor with Liquid in Tank, or 40-Foot Booms in Transport Position, Hold and Handle Drawbar as Firmly and as Close to Ground as Possible.
- (3) If Trailer is Equipped with Optional Safety Legs, Lower Them into Proper Position Before Unhitching Trailer Drawbar from Tractor.

FILLING TANK WITH THE PTO PUMP

The PTO pump can be used to fill the tank.



Turn the shut-off valve, next to the line strainer clockwise, to the "OFF" position.



Disconnect the suction hose from the PTO pump.

Obtain a 1-inch I.D. hose of sufficient length to reach the water supply but 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.

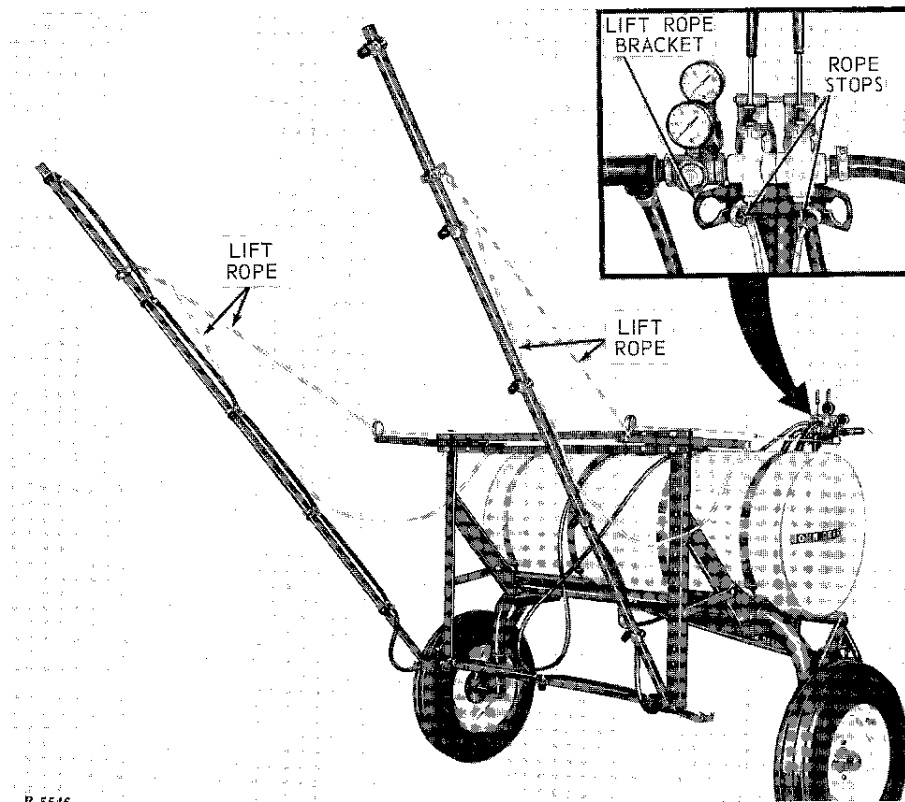
Obtain a 3/4-inch hose of sufficient length to reach from the PTO pump to the tank. The 3/4-inch hose must have a female hose connection on one end. Connect the female hose connection to the PTO pump where the discharge hose was removed. Place the other end of the hose in the tank. Start the PTO pump.

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

It pays to be careful for
your own sake!
Accidents can . . .
Pain
Lame
Maim
and cost you money!

6 Operation

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



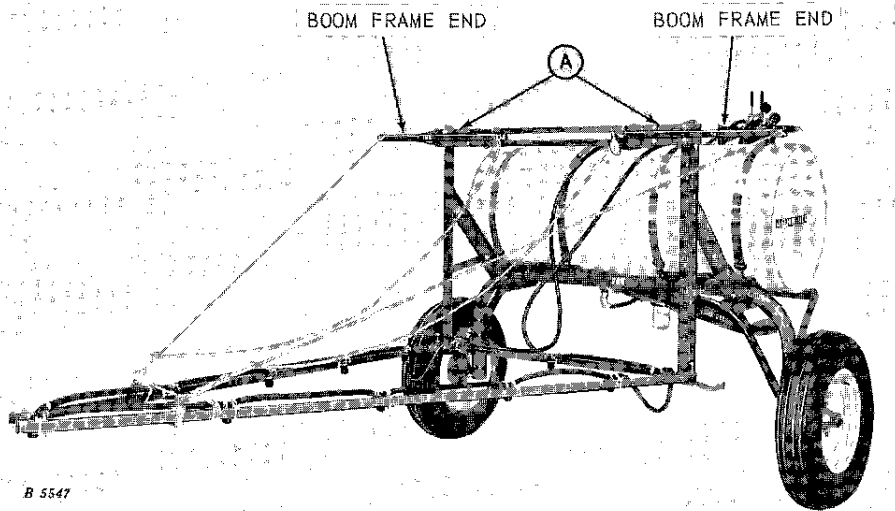
Lift ropes holding boom up in transport position

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

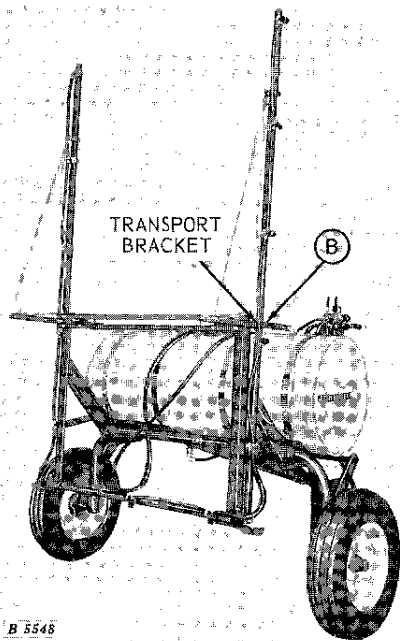
To reduce height, reposition rope stops, and swing booms rearward. If sprayer is equipped with eight-row booms, tie booms together with rope provided.

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

To position the booms straight back, remove the two thumbnuts and pins "A," swing the boom frame end around and install pins "A" as shown on page 7. Tie booms together with ropes provided.




Booms straight back in transport position



Booms locked up in transport position

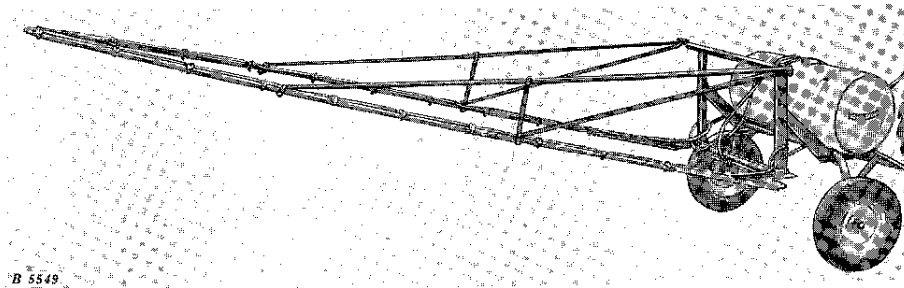
When transporting the sprayer over rough ground, or for a long distance, secure the booms to the boom frame as follows:

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."

 **CAUTION:** 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.

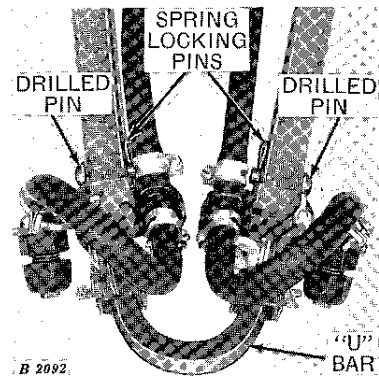
8 Operation

TRANSPORTING—12-ROW (40-FOOT) OR 8-ROW (HEAVY-DUTY) BOOMS

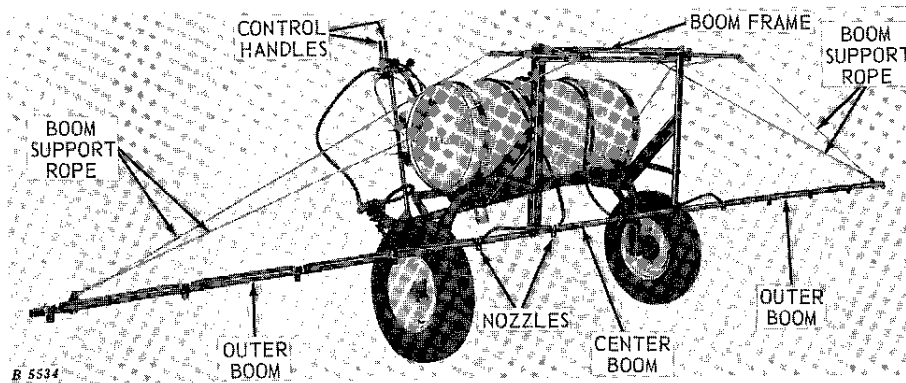


Swing the booms back and place the "U" bar in the ends of the booms. Secure the "U" bar in place with the drilled pins and spring locking pins.

When the boom is in working position secure the "U" bar to the boom frame with the drilled pins and spring locking pins.



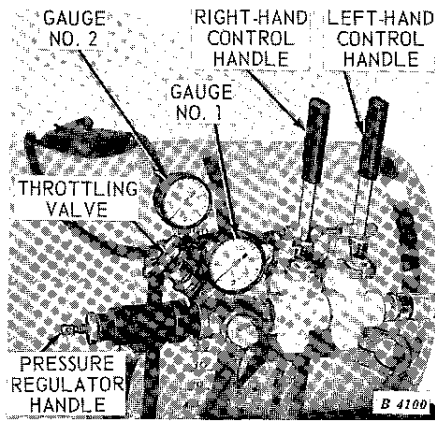
POSITIONING BOOMS



Lower the outer booms to the operating height and adjust the rope stops on the boom support ropes so that the booms are level and in line with center boom section.

Adjust the height of the booms so there is approximately 18 inches of clearance between the nozzle tips and the surface to be sprayed.

BOOM CONTROLS



CAUTION: Do not operate the booms at pressures in excess of 150 psi.

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 left-hand handle vertical, the right-hand side of the sprayer is in operation.

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

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

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

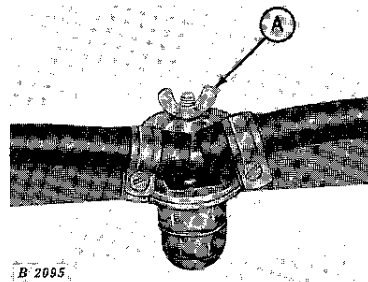
regulator handle clockwise to increase the operating pressure and counterclockwise to decrease the operation pressure.

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.

ADJUSTING NOZZLES



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

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