

# 10A AND 20A 3-POINT HITCH SPRAYERS



JOHN DEERE

## OPERATORS MANUAL 10A AND 20A 3-POINT HITCH SPRAYERS

OMB25355 H6 English

**OMB25355 H6**

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.



B 1088

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

## JOHN DEERE 10A AND 20A SPRAYERS

Date Purchased . . . . .

10A Sprayer . . . . .  20A Sprayer . . . . .

### OPTIONAL EQUIPMENT

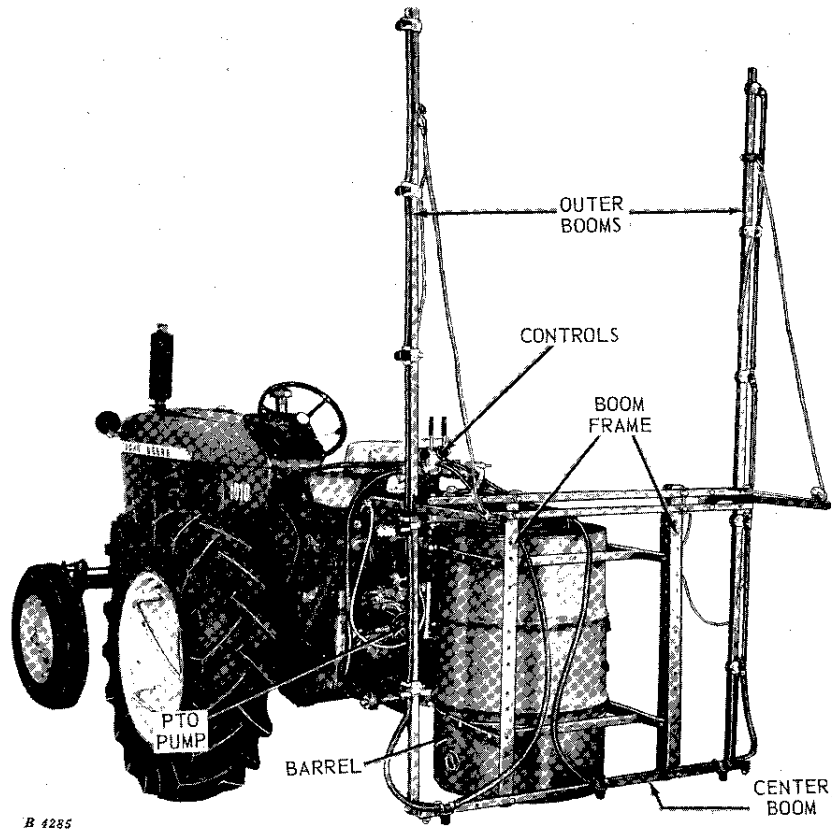
- 8-Row Boom . . . . .
- Six Roller Ni-Resist Pump . . . . .
- Seven Roller Ni-Resist Pump . . . . .
- Twin Piston Pump . . . . .
- Centrifugal Pump . . . . .
- Pump Surge Chamber . . . . .
- Row-Crop Drops . . . . .
- Hand Gun . . . . .
- 25-Ft. Hose . . . . .
- 50-Ft. Hose . . . . .
- High Pressure Hand Gun . . . . .
- Boom Extension Nozzles . . . . .
- Wide Spray Nozzle . . . . .
- Hand Gun and/or Wide Spray Control . . . . .

(To be filled in by purchaser)



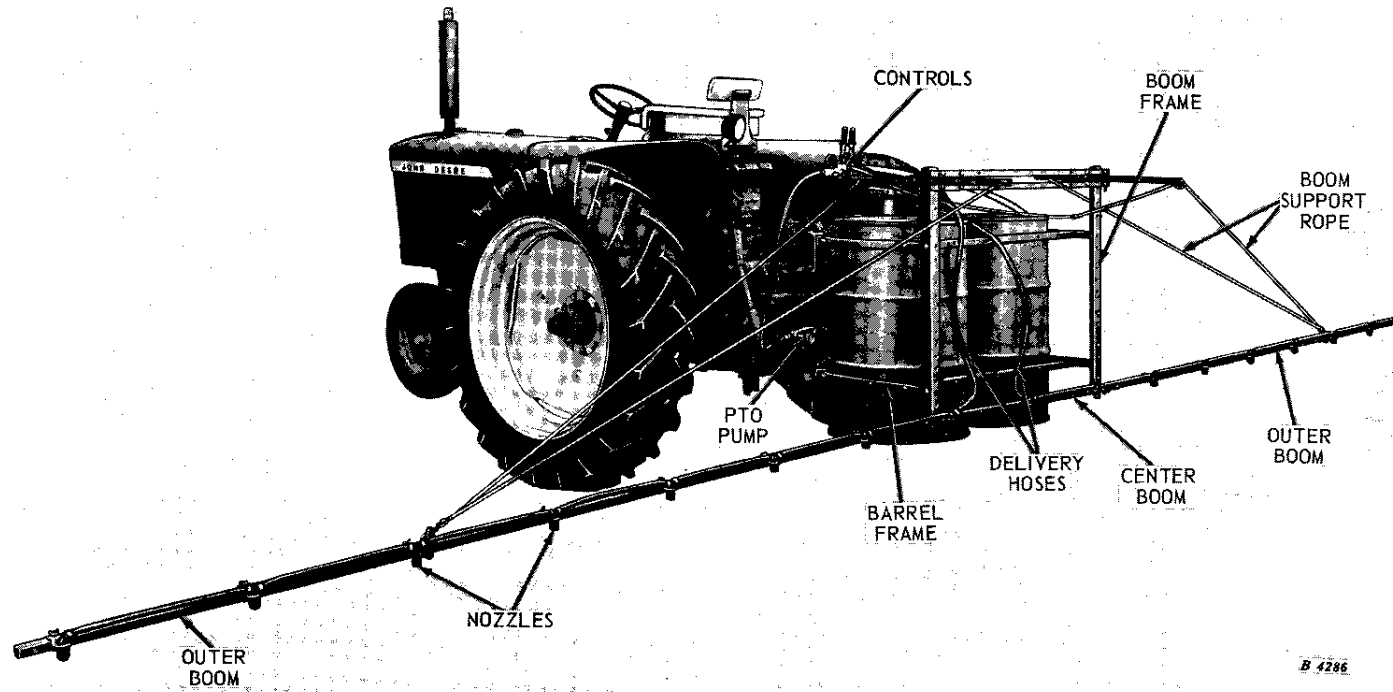
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B 4285

*10A-Sprayer with Six-Row Booms in Transport Position  
Mounted on a John Deere 1010 Tractor*



*20A-Sprayer with Eight-Row Booms in Working Position  
Mounted on a John Deere 2010 Tractor*



## SPECIFICATIONS

### TYPES

The 10A Sprayer is designed for use with a tractor having a 3-point hitch.

Regular equipment includes a barrel frame for a 55-gallon barrel (barrel not furnished), a six-row boom to cover six 40-inch rows, nozzles, boom control, and a six-roller grey iron PTO pump. Optional equipment and attachments can be ordered.

The 20A Sprayer is designed for use with a tractor having a category 2, 3-point hitch.

Regular equipment includes a twin-barrel frame for two 55-gallon barrels (barrels not furnished), a six-row boom to cover six 40-inch rows, nozzles, boom control, and a six-roller grey iron PTO pump. Optional equipment and attachments can be ordered.

### BOOMS

Regular—6-row (21-foot 8-inch) to cover six 40-inch rows.

Optional—8-row (28-foot 4-inch) to cover eight 40-inch rows.

Booms are made of square tubing with nylon nozzle fittings connected with rubber hose and mounted on adjustable clamps for varying row

widths from 24-inch to 40-inch or 12-inch to 20-inch spacing between nozzles. Booms are made in three sections with the center section stationary and the outer boom sections mounted on four-way hinges.

### PTO PUMP

Regular—6-roller grey iron pump.

Optional—6- or 7-roller Ni-Resist pump, a centrifugal pump, or a twin piston 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

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. Ten-gallon brass tips are furnished as regular equipment; others must be ordered separately as required for different rates of application.

#### HAND GUN

A hand gun and controls may be ordered in lieu of booms and boom controls.

A hand gun also is available to be used in conjunction with or independent of the booms or wide spray. The hand gun is available with either a 25-foot or a 50-foot hose.

A hand gun with 25-foot high-pressure hose and heavy duty hand gun with 50-foot high-pressure hose are also available.

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.

#### 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 10A or 20A 3-Point Hitch Sprayer equipped with boom controls.

#### OVER-ALL TRANSPORT DIMENSIONS WITH BOOMS (APPROXIMATE)

Transport Width—7 feet  
Transport Height—13 feet 8 inches with 6-row booms; 17 feet with 8-row booms.

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



# OPERATION

## PREPARING THE TRACTOR

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

### BELT PULLEY

The rear-mounted belt pulley must be removed from the tractor, if the tractor is so equipped.

### TIRE PRESSURE

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

### 40, 420, 430, OR 1010 SERIES TRACTORS

On 1010 Single Row-Crop Tractors, use 250 pounds of front end weight. On other 1010 tractors, use 100 pounds of weight. On all other 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 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

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 20A Sprayer is not approved for use on the 1020 Tractor.*

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 1020HU 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 the sway blocks to eliminate all side sway when operating sprayer.

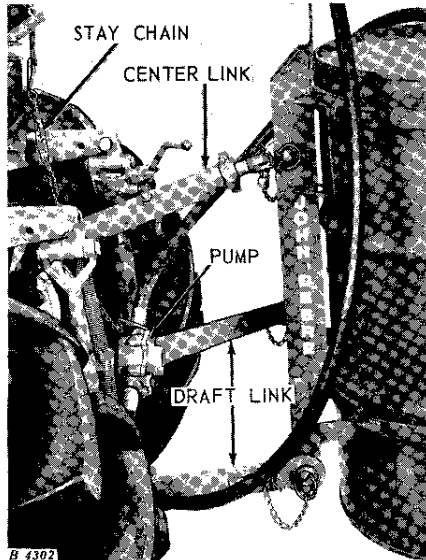
### 520, 530, 620, 630, 720, OR 730 SERIES TRACTORS

Install the upper link in hole No. 3 of the load control yoke.

Install the sway locks to eliminate all side sway when operating sprayer.



### ATTACHING SPRAYER TO THE TRACTOR



Attach the sprayer to the center link and the two draft links of the tractor.

Install the pump on the tractor PTO shaft by placing the key between the splines and tightening the set screws against the key.

Arrows on pump ports indicate proper rotation.

Hook the stay chain to a fixed point on the tractor so the pump will be in a horizontal position.

Raise the sprayer to the desired height.

*NOTE: The nozzles should be 18 to 20 inches above the surface to be sprayed.*

Level the sprayer fore-and-aft by adjusting the length of the tractor center link. Level the sprayer laterally by adjusting the right-hand draft link.

### FILLING THE BARRELS WITH PTO PUMP

The PTO pump can be used to fill the barrel or barrels.

Disconnect the suction hose from the PTO pump.

Obtain one length of 3/4-inch hose, not over 50 feet long, with a female hose connection on one end. Place the strainer from the suction hose on the other end. If desired an additional strainer may be obtained from your John Deere dealer. 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.

Disconnect the discharge hose from the PTO pump.

Obtain a 3/4-inch hose of sufficient length to reach the barrel. 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 barrel. Start the PTO pump.

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

### SWITCHING BARRELS— 20A SPRAYER ONLY

When the spray solution supply is exhausted in one barrel, switch the pump suction hose with the strainer and the agitation hose to the other drum.

**CAUTION:** The agitation hose must be in the same barrel as the suction hose, since the bypassed liquid agitates the spray solution in the barrel.

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