

JOHN DEERE NO. 7 SPRAYER



OPERATORS MANUAL JOHN DEERE NO. 7 SPRAYER

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ENGLISH



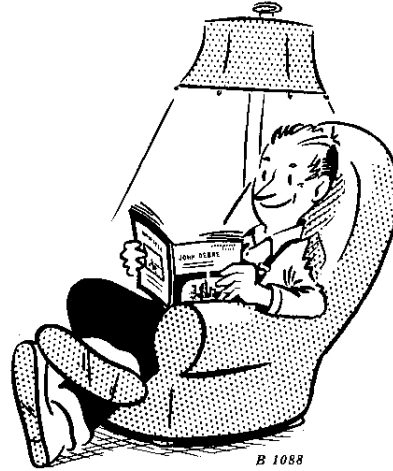
TO THE PURCHASER

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 No. 7 Sprayer

Check off special equipment obtained and record date purchased.

Date Purchased

- | | | |
|---|--|--------------------------|
| Boom | | <input type="checkbox"/> |
| Piston Pump | | <input type="checkbox"/> |
| Pressure Surge Dampener | | <input type="checkbox"/> |
| Hand Gun with 25 Feet of High Pressure Hose | | <input type="checkbox"/> |

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Price \$

SPECIFICATIONS

The No. 7 Sprayer is designed for use with the John Deere 110 Tractor.

It may be used for controlling weeds or insects in row crops, large lawns, small parks, cemeteries, recreational areas, nurseries, fence rows, around lake side cottages, new home sites, industrial buildings and parking lots.

You can "fog" evergreens to kill bagworms or spray stables, hog and poultry houses and crawl spaces to control flies, termites and mosquitoes.

The sprayer can also be used to fight small fires.

TANK—20-Gallon, corrosion resistant coated steel tank.

PUMP—Gear pump, regular; Piston pump, optional.

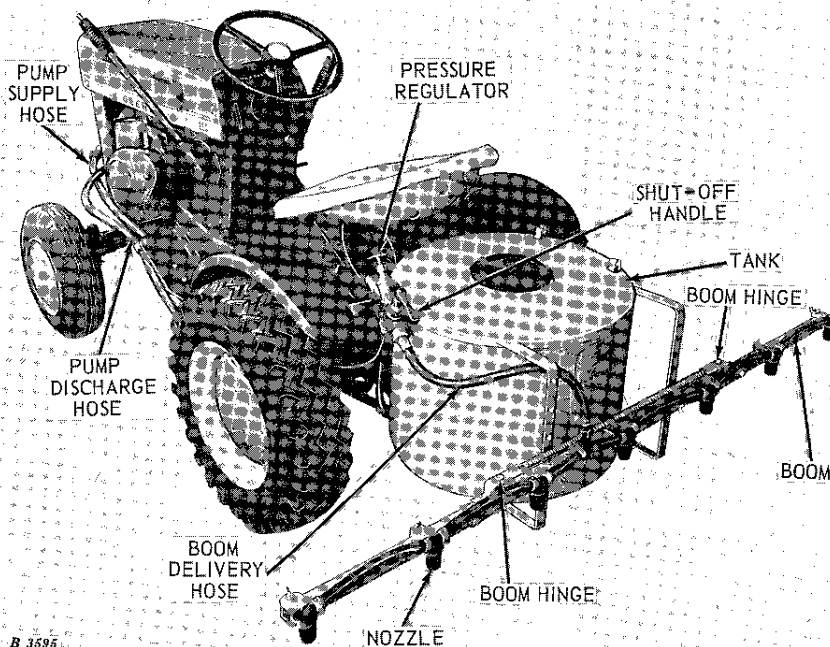
PRESSURE SURGE DAMPENER—Optional. Recommended for use with the piston pump. Will minimize pulsation with either piston or gear pump.

HAND GUN—With 25-foot hose and four nozzle tips. Hand gun with 25 feet of high pressure hose available.

POWER—The sprayer is driven from the tractor engine through an auxiliary drive.

BOOM—Seven nozzles spaced ten inches apart, optional. Boom ends are spring loaded, so they can swing back, forward, or up if an obstruction is hit.

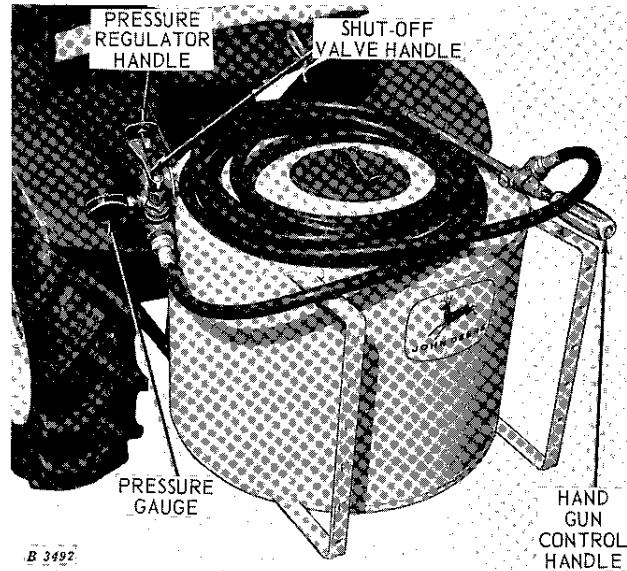
(Specifications and design subject to change without notice.)



No. 7 Sprayer with Boom, Mounted on a John Deere 110 Tractor

OPERATION

CONTROLS



PRESSURE REGULATOR

To increase the operating pressure, turn pressure regulator handle clockwise; to decrease operating pressure, turn handle counterclockwise.

HAND GUN CONTROL

The hand gun spray pattern is adjustable from fine fog to straight stream by turning the control handle counter-clockwise. The hand gun may be turned off by turning the control handle clockwise.

BOOM CONTROL VALVE

Turn on the spray by turning shut-off handle counter-clockwise; shut it off by turning handle clockwise.

Regulate the operating pressure by turning the pressure regulator handle in to increase the pressure, or out to decrease the pressure.

PRESSURE GAUGE

The pressure gauge indicates the operating pressure being developed to either the hand gun or the boom.

HAND GUN

Turn on the spray by turning shut-off handle counter-clockwise; shut it off by turning handle clockwise.

Turn the hand gun control handle one-half turn counter-clockwise for a fog spray, and wide open for a stream. Turn off by turning the control handle clockwise.

Regulate the operating pressure by turning the pressure regulator handle in to increase the pressure, or out to decrease the pressure.

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 hand gun is shut off.

Hand Gun Delivery Rate Chart									
John Deere Nozzle Number	Number stamped on nozzle	Nozzle size	Gallons per minute						
			30 psi	50 psi	80 psi	100 psi	150 psi	200 psi	300 ** psi
B 14483 B	3	3/64"	0.24	0.28	0.37	0.41	0.50	0.68	1.1
B 14484 B	5	5/64"	0.67	0.78	1.00	1.21	1.40	1.80	2.2
B 14555 B*	7	7/64"	1.24	1.52	2.03	2.30	2.65	3.30	4.0
B 14485 B	9	9/64"	2.26	2.61	3.30	3.81	4.40	5.28	5.6

*Installed in hand gun.

**Install 400 pound pressure gauge when operating at pressures over 200 psi.

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CHANGING SPRAY SOLUTIONS

The sprayer tank, hand gun, nozzles and delivery tubes must be thoroughly cleaned after spraying is finished or when changing from one chemical solution to another.

CAUTION: Never change from a weed killing solution to a tree or shrub spraying solution without thoroughly cleaning the sprayer.

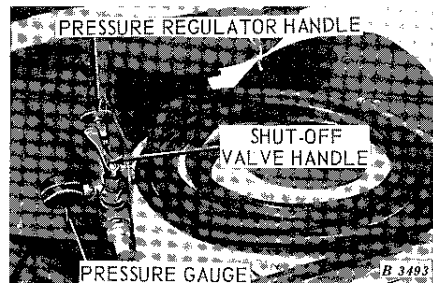
To reduce danger of damage to trees or other vegetation which will be sprayed after changing from a herbicide to an insecticide spray, proceed as follows:

1. Empty the tank.
2. Thoroughly flush the tank and entire system with clean water.
3. Wash thoroughly with a good household detergent.
4. Rinse with clean water.
5. Rinse thoroughly with solution of household ammonia (approximately 1-qt. of ammonia to 20-gallons of water).

PRESSURE SURGE DAMPENER

The pressure surge dampener (BB11292B) can be used in conjunction with either pump to minimize pulsation. It is recommended that this attachment be used with the piston pump. The pressure surge dampener normally is not required with the gear pump.

BOOM



Turn on the spray by turning shut-off handle counter-clockwise; shut it off by turning handle clockwise.

Regulate the operating pressure by turning the pressure regulator handle in to increase the pressure, or out to decrease the pressure.

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 boom is shut off.

If all seven nozzles are to be used, space them 10 inches apart and position boom so nozzle tips are approximately 10 inches above the surface to be sprayed. This setup will provide a 70-inch swath width.

If only four nozzles are to be used, with three blanked off, space nozzles 20 inches apart and position boom so nozzle tips are 18 to 20 inches above the surface to be sprayed. This setup will provide an 80-inch swath width, or the equivalent of two 40-inch rows.

Other nozzle spacings and heights may be used as desired for different swath or row widths.

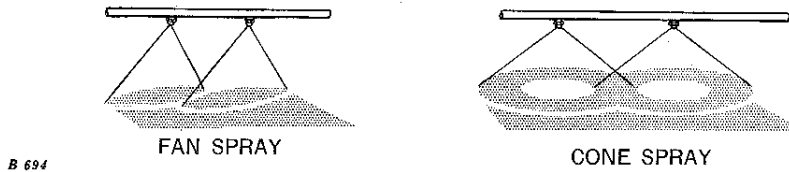
RATES OF APPLICATION

Nozzle Tip Chart for Boom Sprayers					
Delivery Rate in Gallons per Acre at 40 psi Pressure and 10'' Nozzle Spacing					
Gallons Per Acre		Type of Spray	John Deere Tip Number	Number Stamped on Tip	Material
2 mph	3 mph				
22.8	15.3	Fan	B11891B*	730077B or FS 2.5	Brass
46.0	30.4	Fan	B11875B	730154B or FS 4.5	Brass
46.0	30.4	Fan	B12286B	730154SS or FS 4.5	Stainless Steel
4.8	3.2	Cone	B12281B	Y 1 or BC 2.0	Brass
9.9	6.6	Cone	B12282B	X 2 or BC 3.5	Brass
15.2	10.0	Cone	B12283B	X 3 or BC 5.0	Brass

*Nozzle tip B11891B is furnished as regular equipment with 100 mesh strainer (AB12077B).

If the rate of travel is doubled, delivery rate will be cut in half. Likewise, if rate of travel is cut in half, delivery rate will be doubled. A 20-inch nozzle spacing will cut delivery rate approximately in half.

Capacities are based on clear water—spray mixtures will vary, and if greater accuracy is desired, calibrate sprayer as instructed on page 7.

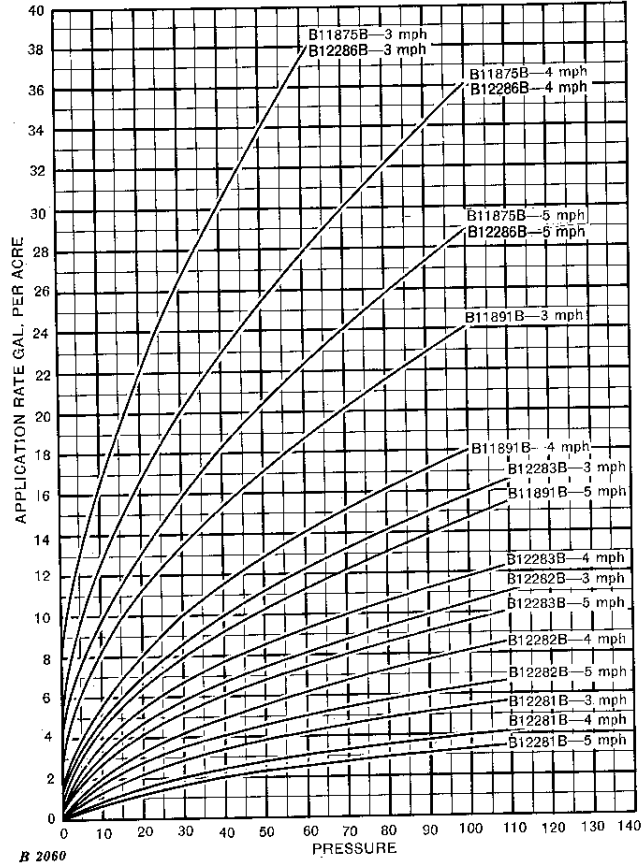


The above pictures illustrate the types of spray patterns for a fan spray nozzle and a cone spray nozzle.

Set the slot in each nozzle tip at an angle so the spray from one nozzle tip will not interfere with the spray from the adjoining nozzle tips.

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APPLICATION RATE CHART



The above chart shows the effect that increasing or decreasing the pressure and rate of travel has on the application rate. The capacities are based on clear water and 10 inch nozzle spacing.

To check the exact speed that you are driving, proceed as follows:

1. Measure a distance of 88 feet.
2. Check the time it takes to drive 88 feet at your driving speed.

The table below converts the time it takes to travel the 88 feet to miles per hour.

Time to Travel 88-Foot	Driving Speed
10 Seconds	6 MPH
12 Seconds	5 MPH
15 Seconds	4 MPH
20 Seconds	3 MPH
30 Seconds	2 MPH
1 Minute	1 MPH

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