

NO. 5A LAWN AND GARDEN SPRAYER

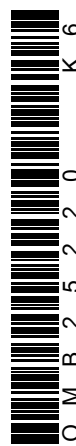


OPERATORS MANUAL NO. 5A LAWN AND GARDEN SPRAYER

OMB25220 K6 English

OMB25220 K6

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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. 5A Sprayer

Date Purchased

Boom	<input type="checkbox"/>
Handle Bars	<input type="checkbox"/>
Gear Pump	<input type="checkbox"/>
Piston Pump	<input type="checkbox"/>
Pressure Surge Dampener	<input type="checkbox"/>

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SPECIFICATIONS

The No. 5A Sprayer is ideal for controlling weeds and insects in large lawns, small parks, cemeteries, recreational areas, nurseries and fence rows and 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, plastic-lined steel tank.

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

HAND GUN — With a 25-foot hose and 4 nozzle tips. The hand gun is available with 25-foot high-pressure hose.

WHEELS — 16 inch with zero pressure tires.

ENGINE — 2-1/2 h.p., 4-cycle, air cooled, with automatic recoil starting rope.

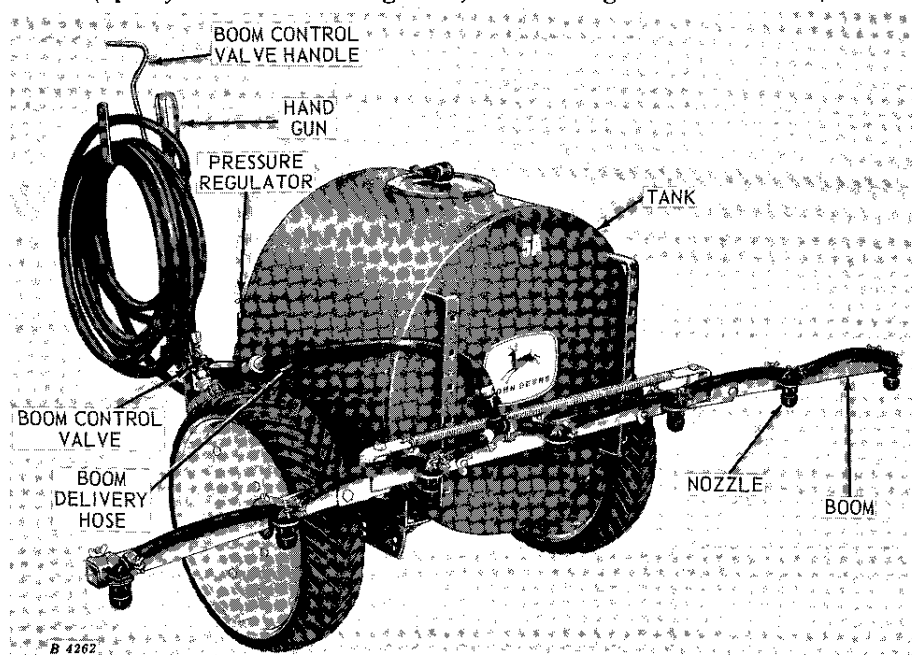
HITCH — For pulling the sprayer, regular; Handlebars and support stand, optional.

BOOM — 7 nozzles spaced 10 inches apart, optional.

NOZZLE TIPS — Several different sizes are available.

PRESSURE SURGE DAMPENER — Will minimize pulsation with either pump but is recommended for use with the piston pump, optional.

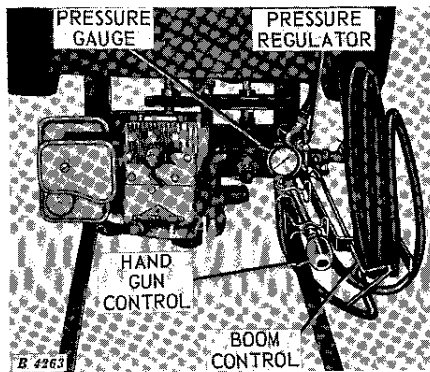
(Specifications and design subject to change without notice.)



John Deere No. 5A Sprayer with Boom and Hand Gun



CONTROLS



BOOM CONTROL VALVE

To start or increase flow to boom, turn boom control valve handle counterclockwise; to decrease or stop flow to boom, turn handle clockwise.

PRESSURE GAUGE

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

PRESSURE REGULATOR

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

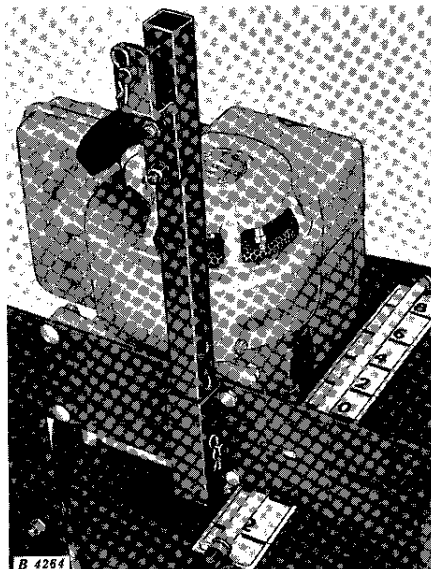
HAND GUN CONTROL

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



OPERATION

ADJUSTING THE HITCH



When using the sprayer with the hitch, the clevis may be positioned either up or down to accommodate the height of the tractor drawbar. (See page 21 for adjustment of handle bars.)

SPRAYER BREAK-IN

Check the V-belt carefully for proper alignment and tension. Keep the belt tight enough to prevent slippage, for belt can be ruined quickly if allowed to slip in the sheave groove for any length of time. Excessive heating of sheave is a sign of belt slippage. New belts will stretch slightly after the first run-off. Check tension frequently.

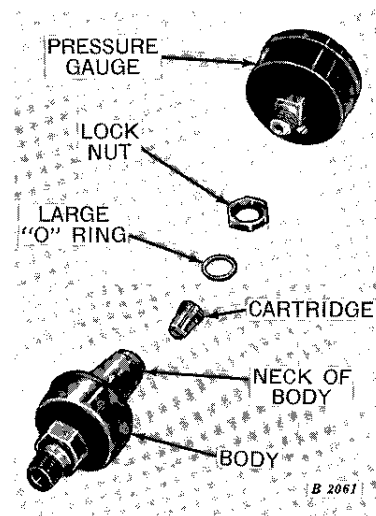
Follow the lubrication instructions closely.

ENGINE

Refer to the operator's manual furnished with the engine for operation, lubrication and maintenance instructions for the engine.

NOTE: If the minimum spray pressure cannot be obtained, slow down the engine. If the maximum spray pressure cannot be obtained, speed up the engine.

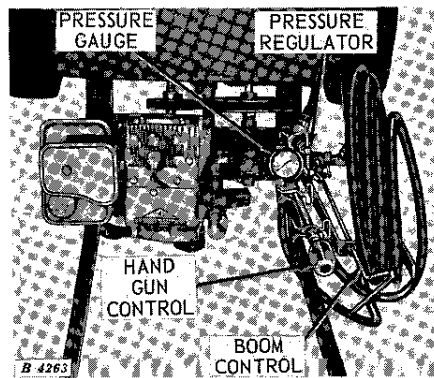
PRESSURE SURGE DAMPENER



The pressure surge dampener 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.

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HAND GUN



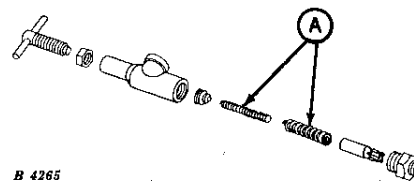
The hand gun can be ordered with its own controls or used in conjunction with, or independently of, the boom. The hand gun is carried in a holder on the control mast, and the hose is carried in a coil around the holder.

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

Regulate the operating pressure by turning the pressure regulator clockwise to increase the pressure, or counterclockwise 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.

When operating the hand gun in excess of 300 psi, replace spring "A," in pressure regulator with the heavier spring furnished with the high pressure hose.



Pressure Regulator

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	400** psi	
B 14483 B	3	3/64"	0.24	0.28	0.37	0.41	0.50	0.68	1.1	1.2	
B 14484 B	5	5/64"	0.67	0.78	1.00	1.21	1.40	1.80	2.2	2.5	
B 14555 B*	7	7/64"	1.24	1.52	2.03	2.30	2.65	3.30	4.0	4.6	
B 14485 B	9	9/64"	2.26	2.61	3.30	3.81	4.40	5.28	5.6	6.5	

*Installed in hand gun.

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

BOOM

BOOM CONTROL

Run the sprayer level when spraying with the boom attachment. The hitch can be adjusted so the sprayer is level. The handlebars are also adjustable.

The flow to the boom may be turned on or off by the boom control valve.

Regulate the operating pressure by turning the pressure regulator clockwise to increase the pressure, or counterclockwise 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.

BOOM ADJUSTMENT

To adjust height of boom, remove wing nuts and bolts, and position boom at desired height. Replace bolts and tighten wing nuts.

Boom ends are mounted on four-way hinges and may be moved vertically or horizontally to aid in storage or transporting. Tension spring returns boom ends to regular operating position if ends snag, swing forward, or rearward.

CHANGING SPRAY SOLUTIONS

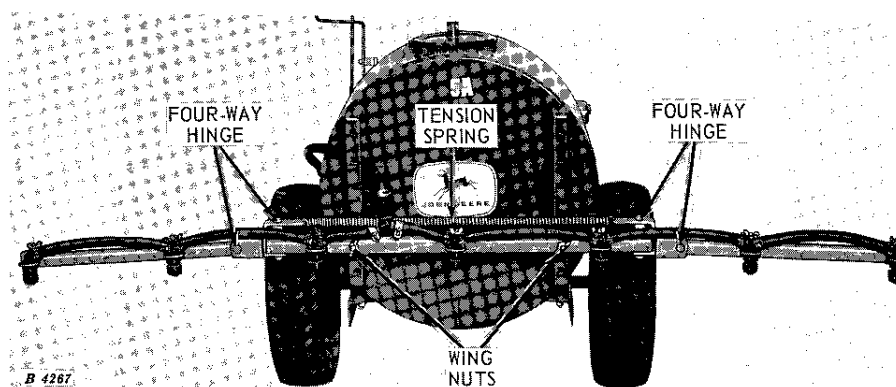
The sprayer tank, hand gun, nozzles, and delivery tubes must be thoroughly cleaned when changing from one spray solution to another.

To reduce the danger of damage to trees or other vegetation which will be sprayed after using a herbicide spray, proceed as follows:

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

CLEANING AFTER SPRAYING

Thoroughly flush the pump, tank, and nozzles with clear water or a solution of approximately one cup of ammonia to ten gallons of water. Squirt a little light oil in the pump and rotate slowly to cover the inner surfaces and parts with a light film of oil.



6 Operation

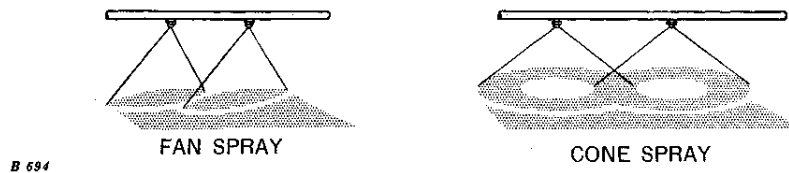
RATES OF APPLICATION

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 standard equipment.

Use 100 mesh strainers (AB12077B) with nozzle tips listed. If speed is doubled, delivery rate will be cut in half. Likewise, if speed is cut in half, delivery rate will be doubled.

Capacities are based on clear water—spray mixtures will vary, and if greater accuracy is desired, calibrate sprayer as instructed on page 8.



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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