

# 550 Pull-Type Sprayer



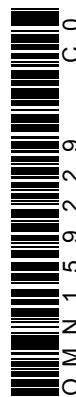
## OPERATORS MANUAL

550 Pull-Type  
Sprayer

OMN159229 Issue C0 English

OMN159229 Issue C0

LITHO IN U.S.A.  
ENGLISH





## To the Purchaser

This new sprayer was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, trouble shooting, or service. Read the Table of Contents to learn where each is located. Use the alphabetical index for fast reference.

Should your sprayer require replacement parts go to your John Deere dealer where you can obtain Genuine John Deere Parts—accept no substitutes. Genuine John Deere Parts fit properly and insure satisfactory service because they are made from the original patterns and from the same materials as used in the new machines.

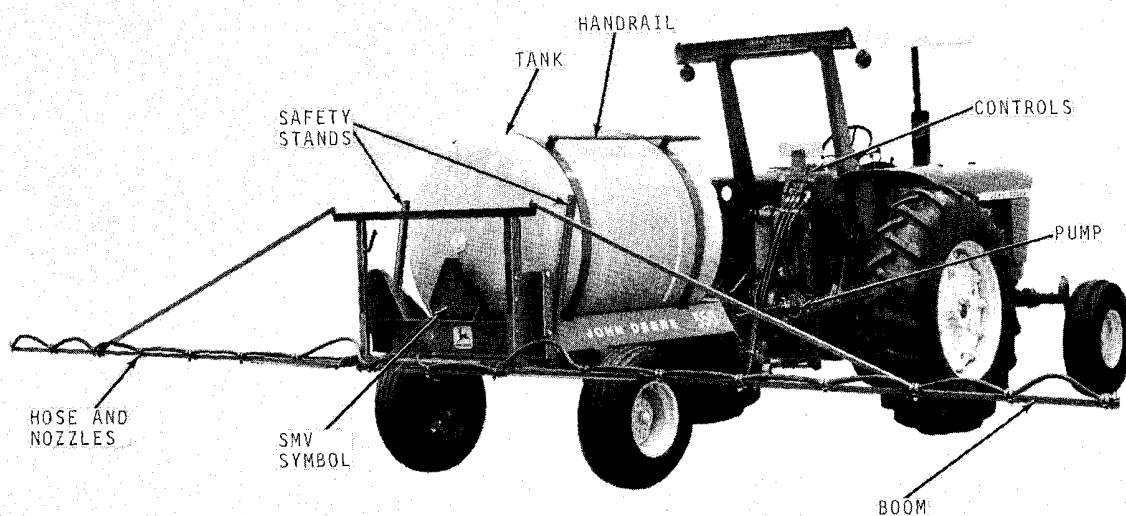
“Right-hand” and “left-hand” sides are determined by facing the direction the sprayer will travel when in use.

Record your sprayer serial number in the space provided on page 39. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments.

The warranty on this sprayer appears on your copy of the purchase order which you should have received from your dealer when you purchased the sprayer.



This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



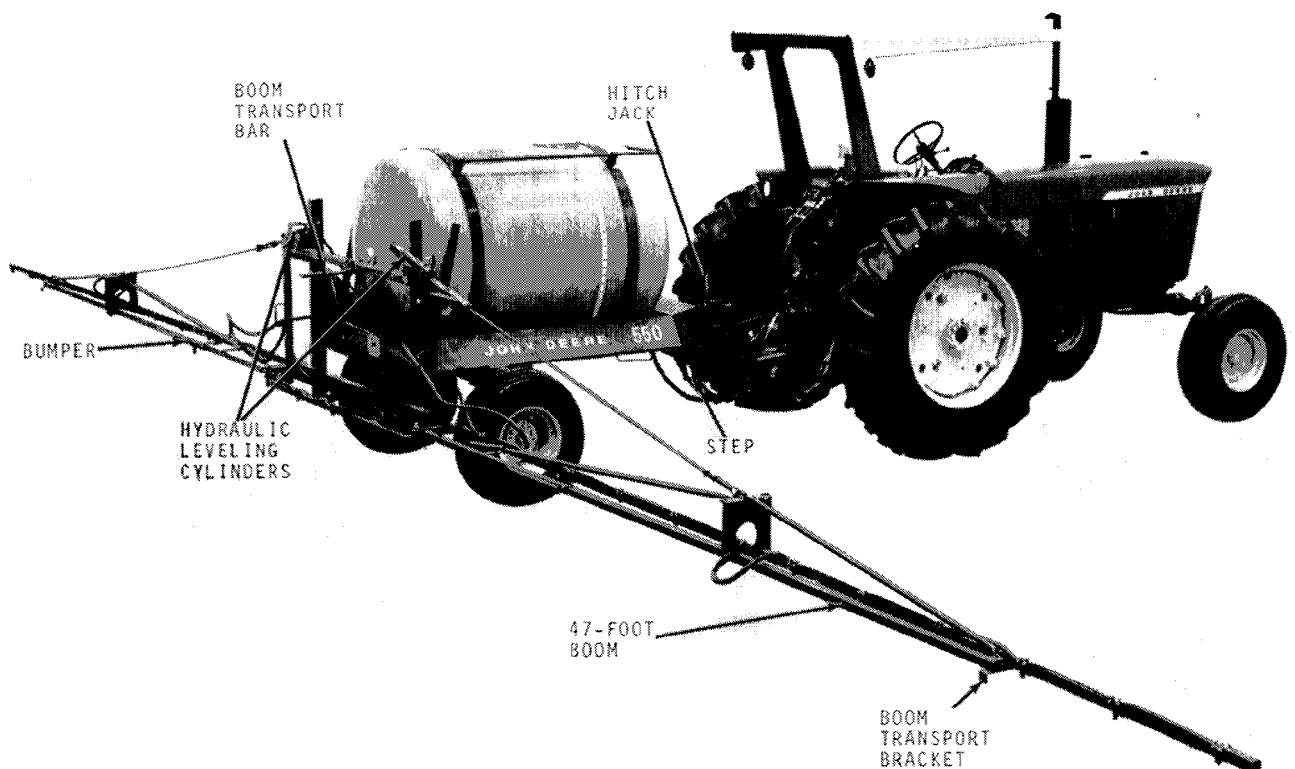
N 26888

*John Deere 550 Sprayer with 27-Foot Boom*



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N 29899

*John Deere 550 Sprayer with 47-Foot Boom*



# Operation

## PREPARING THE SPRAYER

### Tire Pressure

Check tire pressure. Inflate to 28 psi, if necessary.

### Nuts and Bolts

Check all nuts and bolts for tightness.

### Lubrication

Make all necessary lubrication according to lubrication chart on page 17.

### Wheel Tread

Check sprayer wheel tread for desired spacing. See page 8 to change wheel tread if necessary.

## PREPARING THE TRACTOR

### Lever Stop

2520 (Below Serial Number 017000)

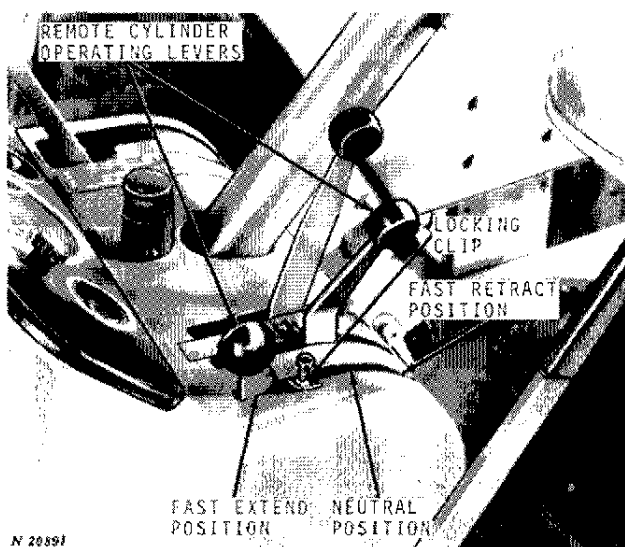
Tractors

3020 (Below Serial Number 123000)

Tractors

4020 (Below Serial Number 201000)

Tractors



Either lever can be used to operate the hydraulic motor. Push the lever all the way forward to the fast extend position to operate the hydraulic motor.

Fasten the locking clip to the dash with set screws to hold the lever as far forward as possible. Return the lever to neutral position to stop the hydraulic motor.

### Lever Stop

2520 (Serial Number 017000 and Above)

Tractors

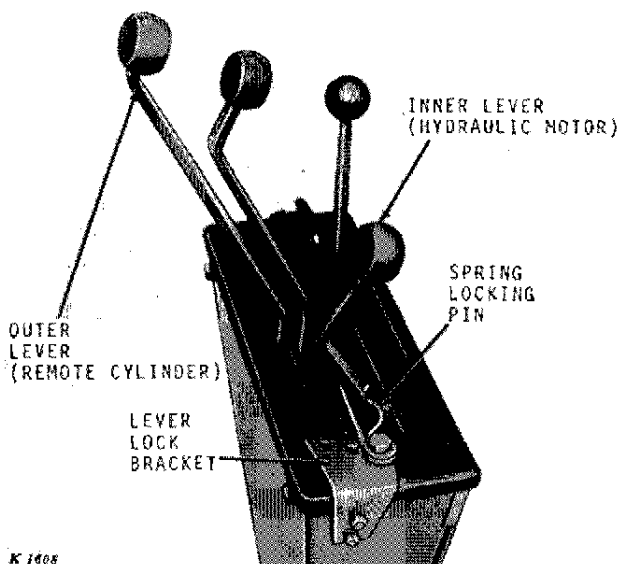
3020 (Serial Number 123000 and Above)

Tractors

4020 (Serial Number 201000 and Above)

Tractors

4520 Tractor



The lever stop is attached to hold the inner lever in the operating position.

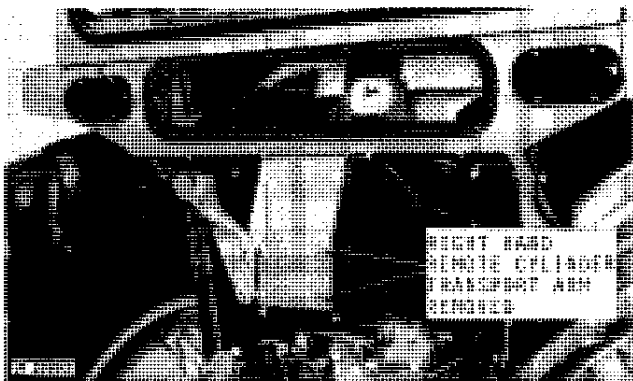
To place lever in operating position, push lever forward until secured by spring locking pin.

To release lever to neutral position, pull lever rearward from spring locking pin.

## Tractor Drawbar

Position drawbar 14 inches from the end of the PTO shaft and in the down position. See your tractor operator's manual.

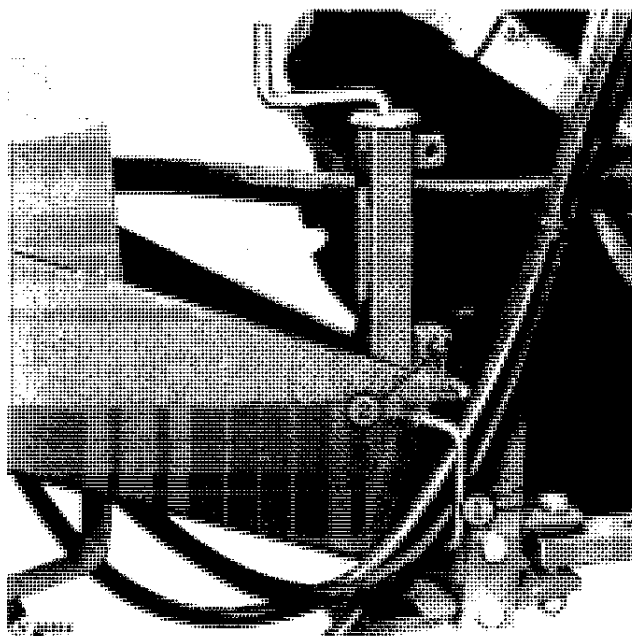
## Remote Cylinder Transport Arm



If mounting sprayer controls on tractor, the right-hand remote cylinder transport arm must be removed.

## ATTACHING SPRAYER TO TRACTOR

### Hitch Jack and Safety Stands

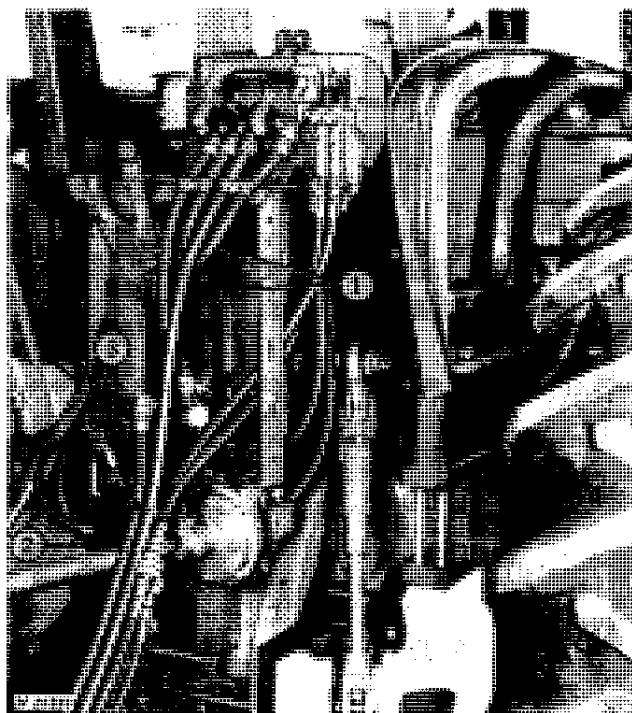


1. Back tractor drawbar into sprayer hitch and pin in place.

2. Raise the hitch jack and pin in the upper position.

3. (Not Shown) Raise the safety stands and pin in place.

## Controls Mounted On Tractor Without Cab



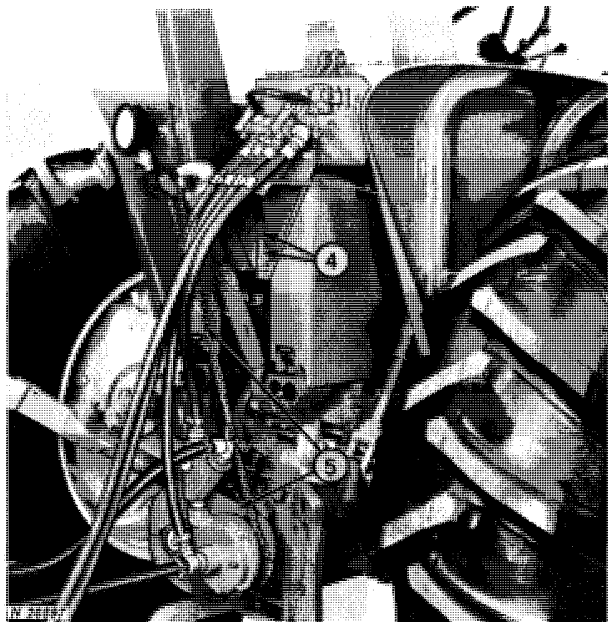
*Hydraulic Motor Driven Pump*

1. Bolt the control bracket with controls and hoses to the tractor.

2. Remove plug from tractor return and install return line. (Sprayers equipped with hydraulic leveling only).

3. Install hydraulic lines in tractor breakaway couplers.

### Controls Mounted On Tractor Without Cab - Continued



*PTO Driven Pump*

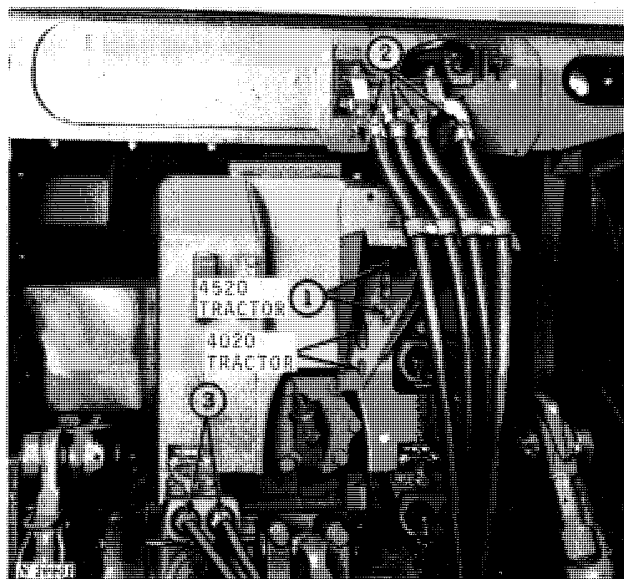
4. Bolt the control bracket with controls and hoses to the tractor.

5. Install centrifugal pump on tractor PTO. Install stay chain to pump and tractor.

### Controls Mounted On Mast

Install hydraulic lines in tractor breakaway couplers.

### Controls Mounted On Tractor With Cab



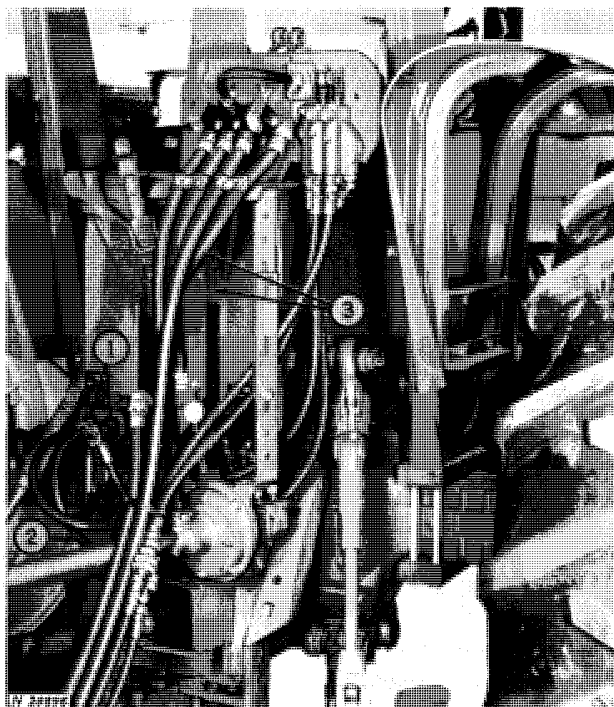
1. Bolt the control bracket with hoses to the tractor.

2. Install delivery and supply hoses to the cab controls.

3. Install hydraulic lines in tractor breakaway couplers.

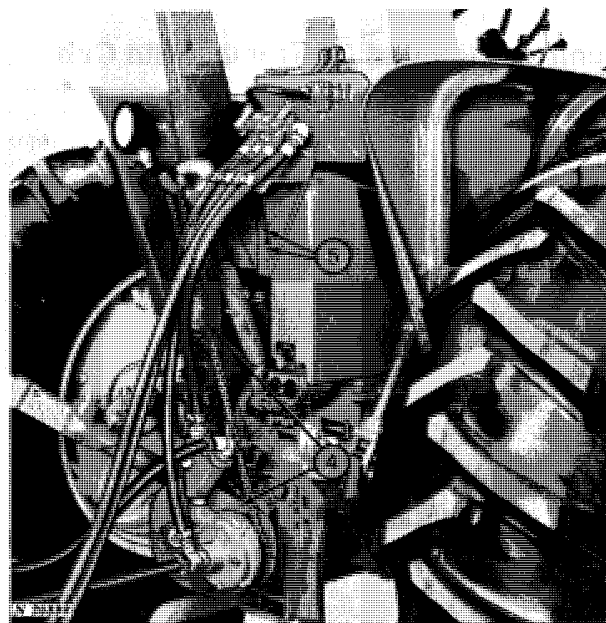
## DETACHING SPRAYER FROM TRACTOR

### Controls Mounted On Tractor Without Cab



*Hydraulic Motor Driven Pump*

1. Disconnect hydraulic lines from tractor couplers.
2. Remove return hydraulic line from tractor pump and replace plug. (Machines that are equipped with hydraulic leveling).
3. Remove bolts holding control bracket to tractor. Place controls and hoses with sprayer.



*PTO Driven Pump*

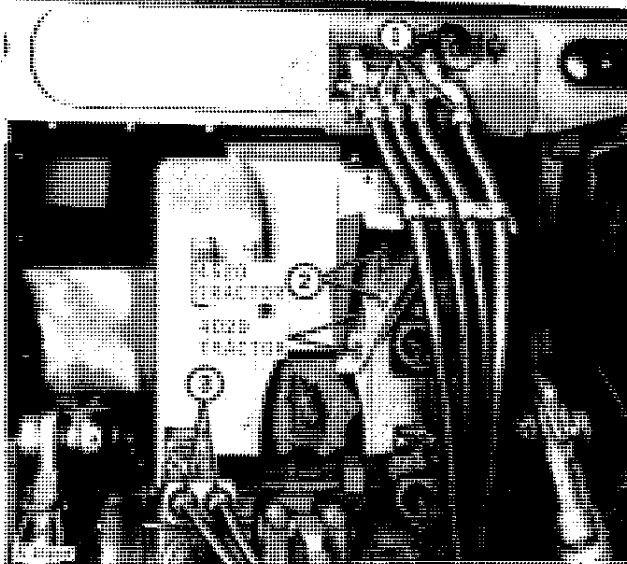
4. Disconnect centrifugal pump from tractor PTO. Disconnect stay chain.
5. Remove bolts holding control bracket to tractor. Store controls and pump with sprayer.

### Controls Mounted On Mast

Disconnect hydraulic lines from tractor couplers.

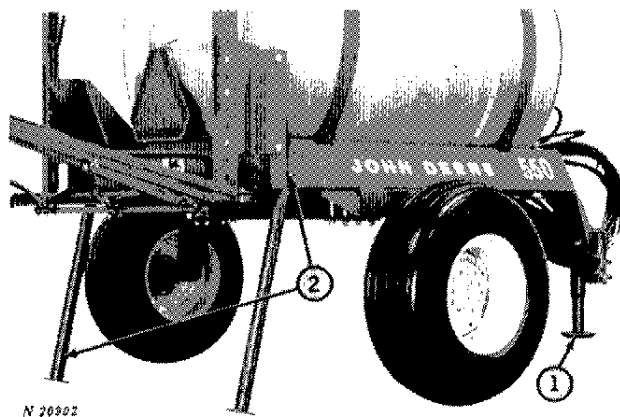
## DETACHING SPRAYER FROM TRACTOR - Continued

### Controls Mounted On Tractor With Cab



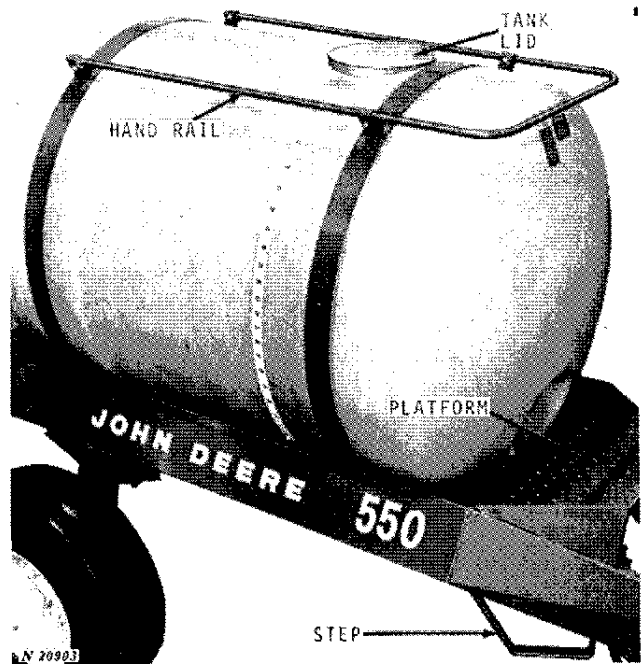
1. Disconnect delivery and supply hoses at the controls. Plug the openings from where the hoses were removed.
2. Remove the control bracket with hoses and place with sprayer.
3. Disconnect hydraulic lines from tractor coupler.

### Hitch Jack and Safety Stands



1. Lower the front hitch jack to the ground to take the weight off the tractor drawbar.
  2. Lower the rear safety stands and pin in place.
- Pull the tractor drawbar hitch pin and drive the tractor forward and away from the sprayer.

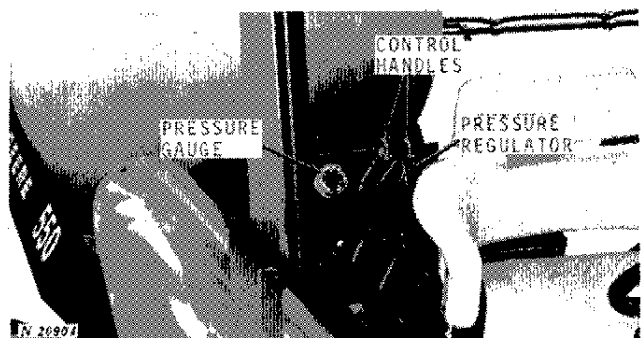
## FILLING THE TANK



Remove the tank lid and fill with water. Add the chemicals to be used as the tank is being filled. As tank is being filled operate pump to mix chemical thoroughly. Replace tank lid.

## CONTROLS

### Sprayer Controls



The spray delivery to either half of the sprayer is regulated by the control handles. When both handles are down and forward, both sides of the sprayer are in operation.

Either the right or left-hand side of the sprayer can be operated independent of each other.

The right-hand control handle operates the right-hand side of the sprayer and the left-hand handle controls the left side of the sprayer.

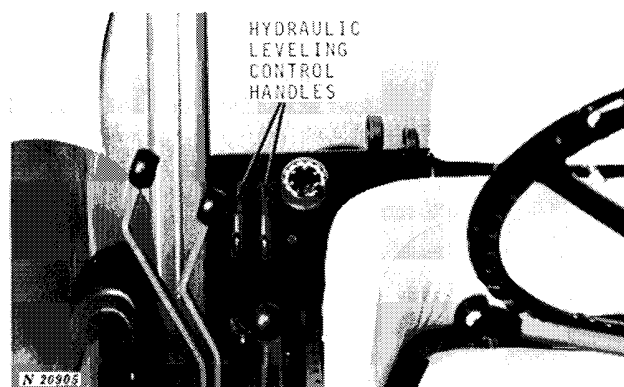


Placing both handles up, the sprayer is shut-off.

The pressure gauge shows the operating pressure. Regulate the operating pressure by turning the pressure regulator clockwise to increase and counterclockwise to decrease the operating pressure.

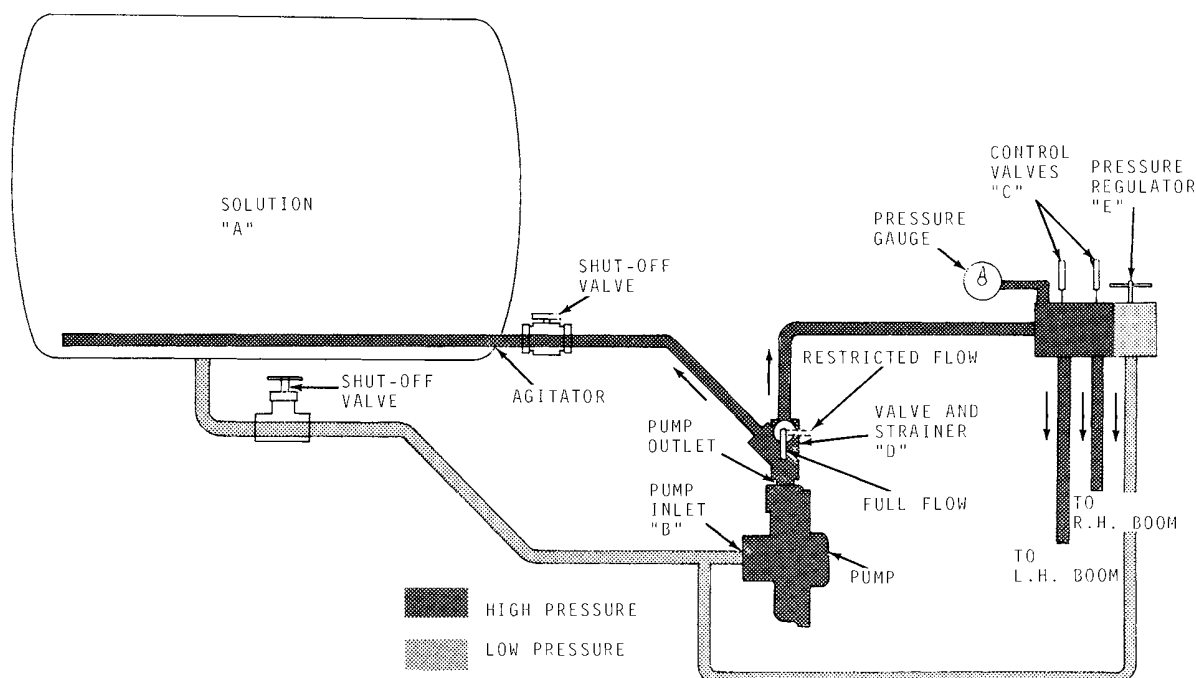
### Hydraulic Leveling Controls (Optional)

The outer boom sections can be raised or lowered with the leveling control handles. The right-hand control handle raises or lowers the right-hand boom sections and the left-hand handle raises or lowers the left-hand boom sections.



*Hydraulic Leveling Controls*

### SOLUTION FLOW



The solution gravity feeds from the tank "A" through the shut-off valve to the pump inlet "B."

The solution is then pumped through the strainer, where the impurities are removed, to the boom control valve "C."

Some of the solution flushes the strainer "D" and goes back to the tank through the agitation port in the tank, which keeps the solution agitated in the tank.

At the boom controls "C" the valves are opened and the solution flows to the nozzles and then to the ground under pressure.

Some solution will go through the pressure regulator "E" and flow back through the pump inlet "B" and repeat the process. The pressure regulator controls pressures to the booms.

The restrictor valve in the strainer can be used to restrict the flow of solution to the boom controls.

**IMPORTANT:** Never run pump dry as excessive heat may damage seals in pump.

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