

550 PULL-TYPE SPRAYER

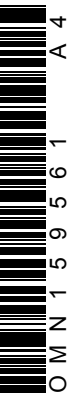


OPERATORS MANUAL 550 PULL-TYPE SPRAYER

OMN159561 A4 English

**JOHN DEERE DES MOINES WORKS
OMN159561 A4**

LITHO IN THE U.S.A.
ENGLISH



INTRODUCTION



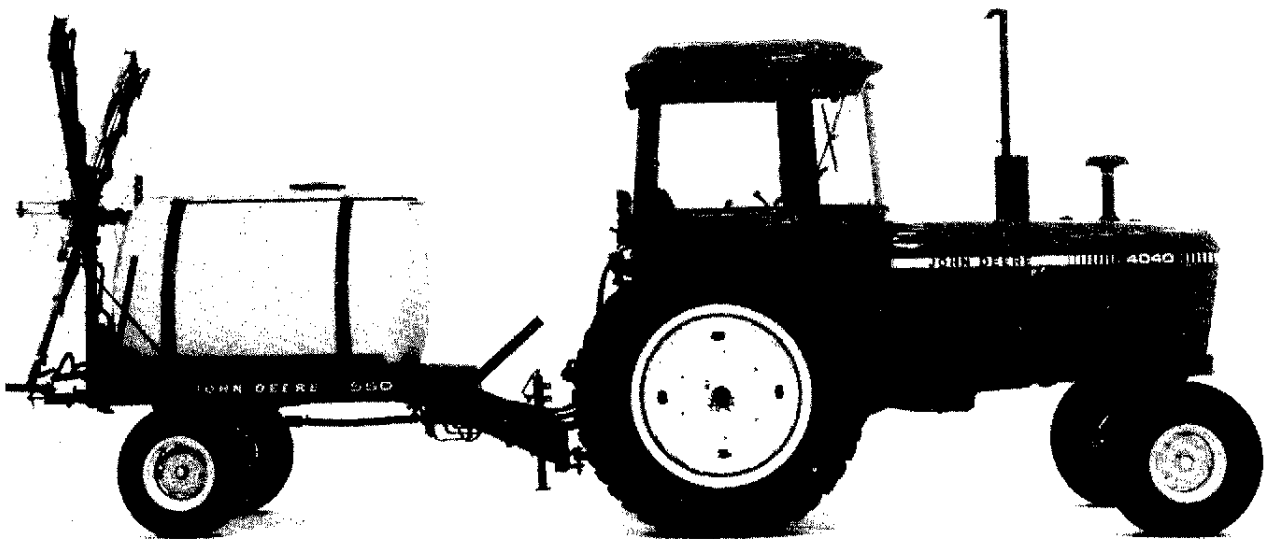
This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

This publication contains both the U.S. customary units of measurements and the SI Metric equivalents.

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

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

Record your sprayer serial number in the space provided on page 66.



550 PULL-TYPE SPRAYER

OWNER REGISTER

Name

Post Office

County State

Date Sold

PREDELIVERY CHECK LIST

- ☐ Check nozzle tips to see that fan spray is angled 5° from parallel with boom.
- ☐ Inspect to be sure that all hose clamps and hose couplings have been tightened.

(Date Set Up)

(Signature)

DELIVERY CHECK LIST

- ☐ Because some chemicals are quick to cause metal to corrode, advise the customer to thoroughly flush tank, booms, pump and controls after each day's use with clear water.
- ☐ Explain to the customer the importance of proper handling of chemicals.
- ☐ Advise the customer that the life expectancy of this or any other machine is dependent on the maintenance and care as directed in operator's manual.
- ☐ Give the operator's manual to the customer and explain all operating adjustments and safety precautions to him.
- ☐ When the sprayer is transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to operators of other vehicles. In this regard, tell customer to check local governmental regulations.

- ☐ To the best of my knowledge this machine has been delivered ready for field use and the customer has been fully informed as to proper care and operation.

(Date Delivered)

(Signature)

AFTER-SALE CHECK LIST

- ☐ Check with the customer as to the performance of the sprayer. Make certain he understands the proper operating adjustments for his crop.
- ☐ If possible, operate the sprayer to see that it is functioning properly.
- ☐ Acquaint the customer with any special attachment which will help him do a better job.
- ☐ Go over entire sprayer for loose or missing bolts.
- ☐ Check for broken or damaged parts.
- ☐ Check to see that all safety shields are in place.
- ☐ Check with the customer to ascertain if the recommended periodic lubrication has been performed.
- ☐ Review the operator's manual with the customer and stress the importance of proper lubrication and safety precautions.

(Date)

(Signed)

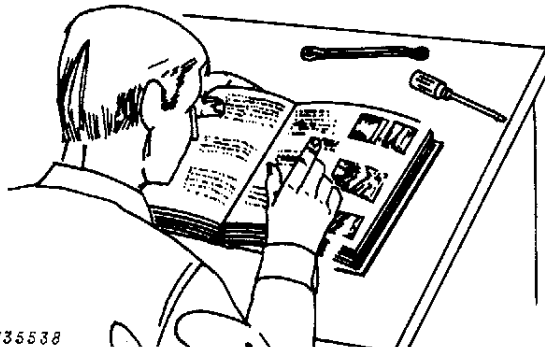


Contents

	Page
Safety	2-4
Preparing Tractor	5-6
Preparing Sprayer	7
Attaching and Detaching	8-13
Attaching	8-11
Detaching	11-13
Transporting	14-18
Operating the Sprayer	19-29
Operating Guidelines	19
Controls	20-21
Filling the Tank	22
Adjusting Wheel Tread	23
Leveling Booms	23-24
Nozzles	25
Sprayer Calibration	26-28
Controls Mast Adjustment	29
Lubrication and Maintenance	30-31
Trouble Shooting	32-34
Service	35-40
Storage	41
Assembly	42-63
Specification	64-66
Serial Number	66



Safety



Operate Safely

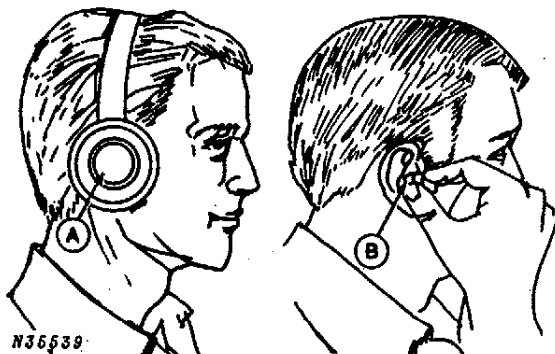
DO NOT operate sprayer without reading this operator's manual.

DO NOT operate sprayer with more than one person on the tractor.

DO NOT operate sprayer with anyone on sprayer.

DO NOT operate close to a ditch or creek.

Slow down when turning.



Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.

A—Earmuffs
B—Earplugs



Avoid Fires

DO NOT operate the Sprayer without a fire extinguisher near by.

DO NOT refuel with the engine running.

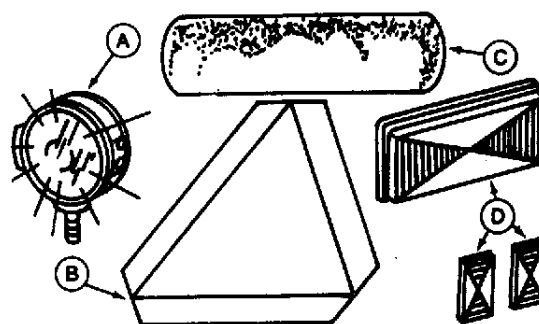
DO NOT smoke or use a lantern when refueling.

Transport Safety

DO NOT transport without first folding the booms. Secure with transport chain.

When transporting your machine on a road or highway at night or during the day, use necessary lights (A), SMV emblems (B), reflector tape (C) or reflectors (D), for adequate warning to operators of other vehicles. In this regard, check local governmental regulation. These various safety lights and devices are available from your John Deere dealer.

Know the transport height of your sprayer and beware of overhead wires.



A—Lights
B—SMV Emblem
C—Reflector Tape
D—Reflectors

N36564

Avoid Contact With Moving Parts

Shut off tractor engine and remove key before adjusting sprayer.

Keep hands, feet, and clothing away from moving parts.

Practice Safe Maintenance

DO NOT lubricate or adjust sprayer when it is in motion.

Shut off tractor engine and remove key when working on sprayer.

Replace any guards and shields removed for servicing.

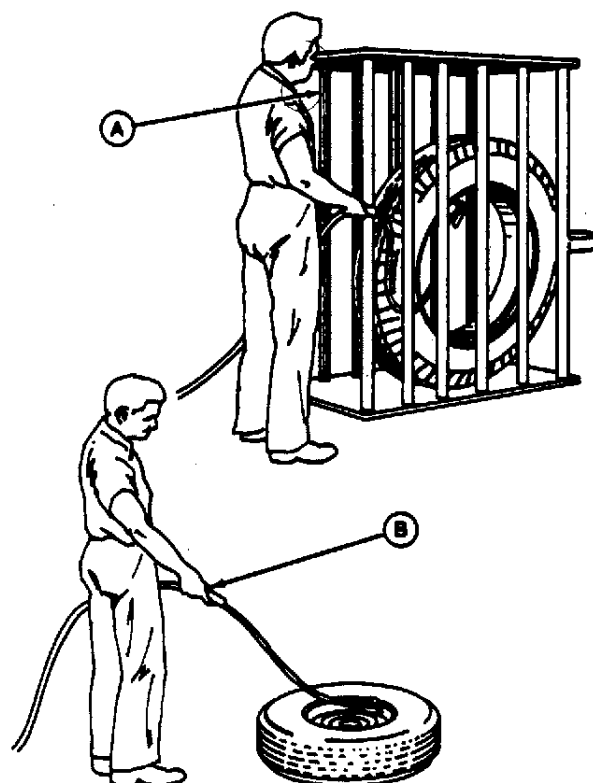
Unauthorized modification to the machine may impair the function and/or safety and affect machine life.

Service Tires Safely

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When seating tire beads on rims, never exceed 35 psi (240 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, re-lubricate bead, and reinflate.

Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.



A—Use a safety cage if available.
B—Do not stand over tire. Use a clip-on chuck and extension hose.

TS0123



X9811

Avoid High-Pressure Fluids

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type of injury or gangrene may result.



N35988

Handle Chemicals Wisely

Store pesticides in a separate, plainly marked, LOCKED building.

Store pesticides in original containers with labels intact.

Use the Chemical Transfer Pump, to transfer chemical into sprayer tank.

Select an area to fill, flush, calibrate and decontaminate sprayer where pesticides will not drift or run off to contaminate people, animals, vegetation, water supply, etc. Locate area to provide absolutely no opportunity for children to contact pesticides.

If spray material comes in contact with the body, wash off IMMEDIATELY with clean water and follow directions on chemical label.

In event of nozzle clogging or other system malfunctions, shut down sprayer and release pressure from system.

Never place nozzle tips or other parts to lips to blow out trash. Have spare tips available for replacement.

To minimize spray drift hazards:

- Use large nozzle tips operated at lower pressures.
- Do not operate sprayer at pressures over 50 psi (345 kPa).
- Do not spray when winds exceed 10 mph (16 km/h).

Wash spray residue from outside of sprayer to prevent corrosion.

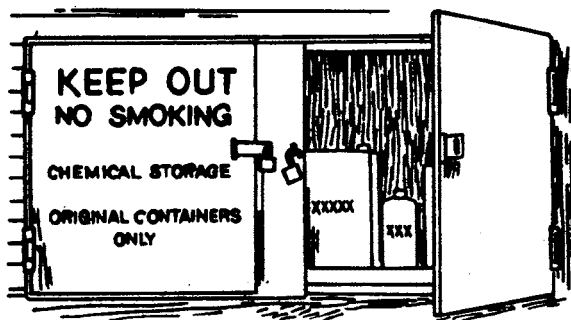
Properly dispose of unused pesticide and flushing solutions.

Equipment used in mixing, transferring, and applying pesticide must be decontaminated afterward.

If tractor is equipped with cab, the air filter in the cab WILL NOT filter out harmful chemicals. Follow the instructions given by the chemical manufacturer.



N36985



N36850



Preparing Tractor

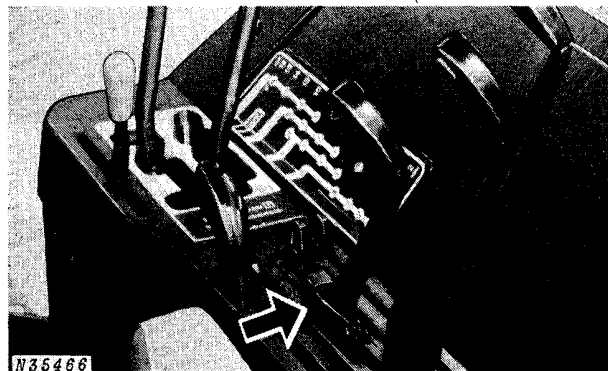
1. Install lever locks (bold arrow) on tractor console as follows:

Squeeze clip together slightly.

Insert clip in quadrant slot just behind the float lockup strap.

Raise stop slightly and slide clip forward into position.

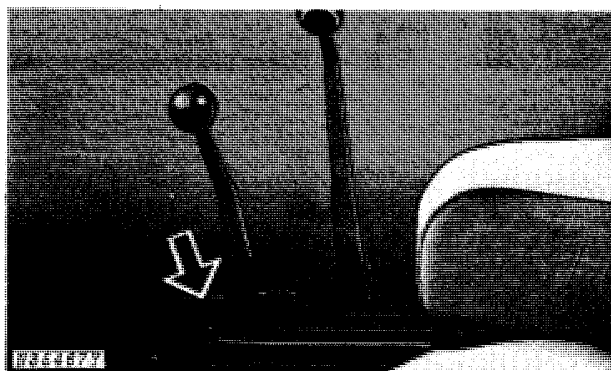
Push stop down to lock clip in place.



4030, 4040, 4230, 4240, 4430, 4440, 4630, 4640 and 4840 Tractors

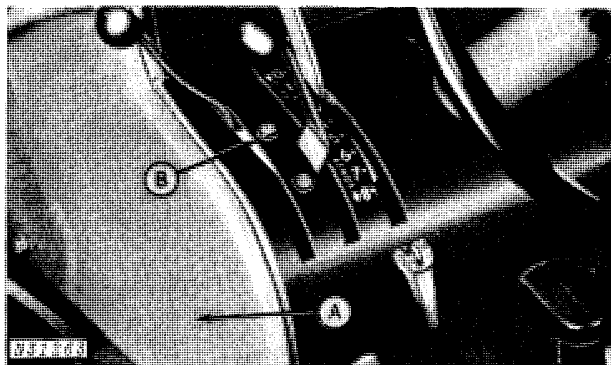
Drill a 5/16-inch hole centered 1-27/64-inch from the front end of No. 1 selective control lever to slot.

Insert front hook of clip into hole in console, then push rear tab down into front of slot in console.



4020, 4030, 4230, 4320, 4430, 4520, 4620, and 4630 Tractors
(Ser. No. [201,000-])

Remove side cowl (A) and install lever lock (B).

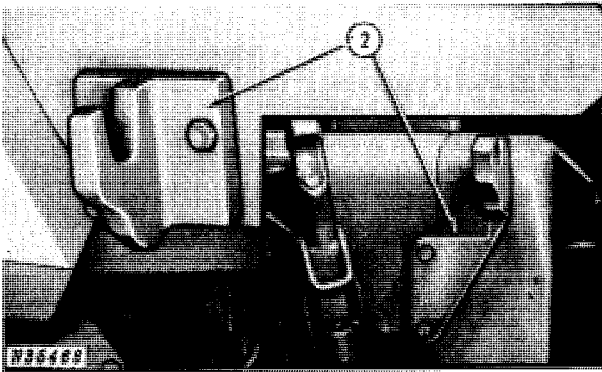


4020 Tractors (Ser. No. [-201,000])

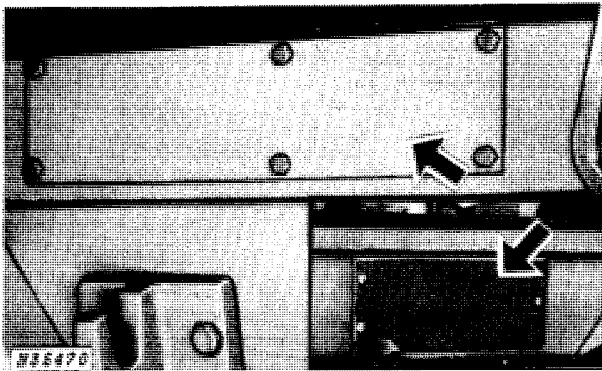
A—Cowl
B—Lever Lock

Continued on next page.

6 Preparing the Tractor



2. If mounting sprayer controls on tractor, or in cab, remove right-hand remote cylinder transport arm.



(Sound-Gard® Body or Roll-Gard® Cab) Remove cover (bold arrow).

3. Place drawbar in down position and 14-inches (356 mm) from end of PTO shaft to outer end of drawbar. See tractor operator's manual.



Preparing Sprayer

TIRE PRESSURE

Size	Tire Inflation		
	PSI	kPa	Bar
11L x 15, 6 PR	28	(193)	(1.9)
16.5L x 16.1, 6 PR	20	(138)	(1.3)

WHEEL TREAD

Check sprayer wheel tread for desired spacing.

SOLUTION TANK

Check for foreign objects in tank and clean if necessary.

STRAINERS

Check and clean if necessary pump, tank drain, and in-line strainers, pages 35-36.

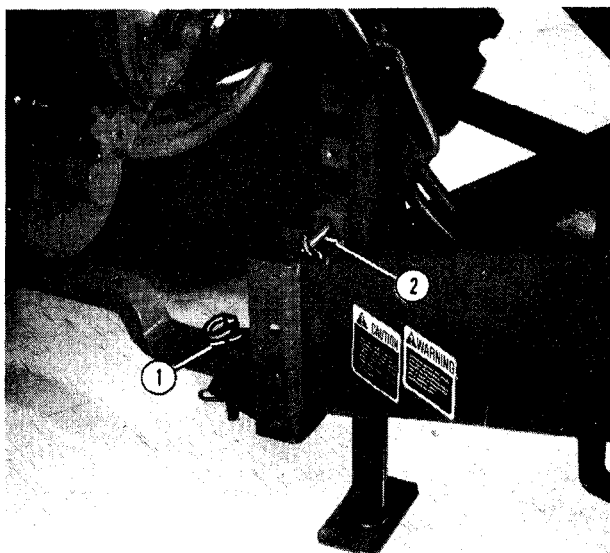
LUBRICATION

Lubricate sprayer. See pages 30-31.



Attaching and Detaching

ATTACHING



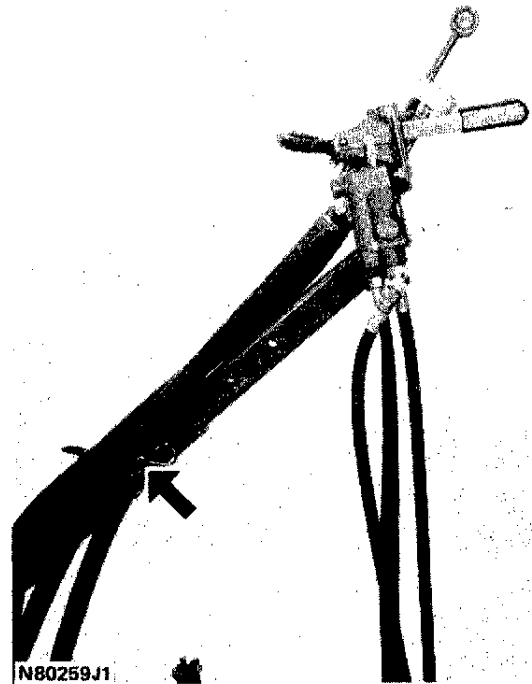
N61125A1

Hitch Jack and Safety Stands

1. Pin sprayer hitch to tractor drawbar.
2. Raise the hitch jack and pin in third lug.
3. (Not shown) Raise sprayer rear safety stands and pin in place.

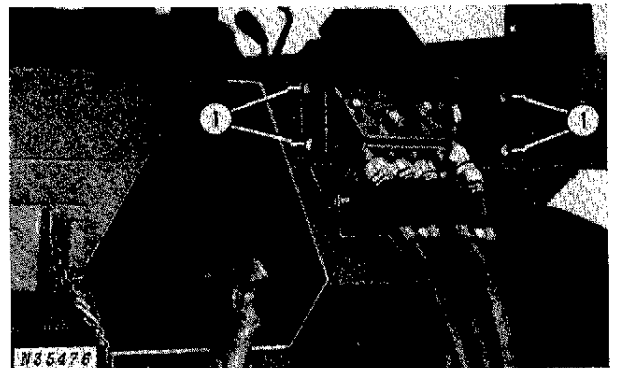
Tractors Without Cab

1. Extend telescoping mast into operating position. Hold in place with pin and Quick-Lock pin (bold arrow).



Controls-Sound-Gard Body

1. Bolt control panel with hoses to cab opening.



Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com