

JOHN DEERE 4493 COTTON AND CORN PLANTER



OPERATORS MANUAL JOHN DEERE 4493 COTTON AND CORN PLANTER

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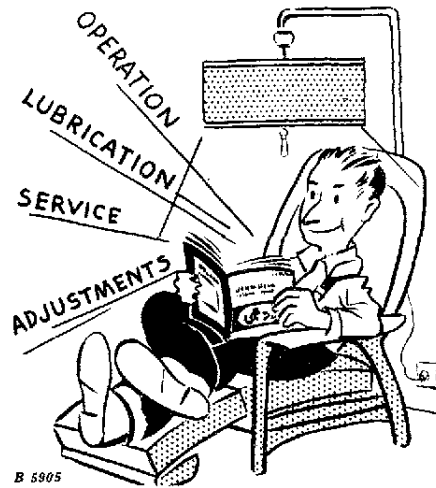
TO THE PURCHASER

Your new planter is sturdy 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, maintenance, and lubrication.

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 planter and facing the direction of travel.



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

4493 COTTON AND CORN PLANTER

Check off model of your planter, special equipment obtained, and record date purchased.

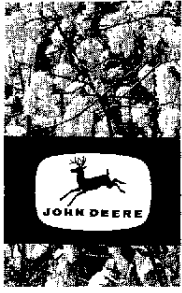
Model:
 4493
 Fertilizer Attachment:
 Dry
 Liquid
 Double Disk Fertilizer Openers ...
 Minimum Tillage Attachment

Eight-Row Hitch Attachment
 Hyd'Row Marker
 Mechanical Chain Marker
 44 Unit Planters
 Date Purchased



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SPECIFICATIONS

TYPE OF PLANTER—Four-row, pull-type cotton and corn.

ROW SPACING—34, 36, 38, and 40 inches.

TYPE OF LIFT—Tractor must be equipped with an 8-inch stroke, remote hydraulic cylinder that conforms to ASAE - SAE standards.

TYPE OF DRIVE—Each individual unit driven by sprocket and roller chain from press wheel.

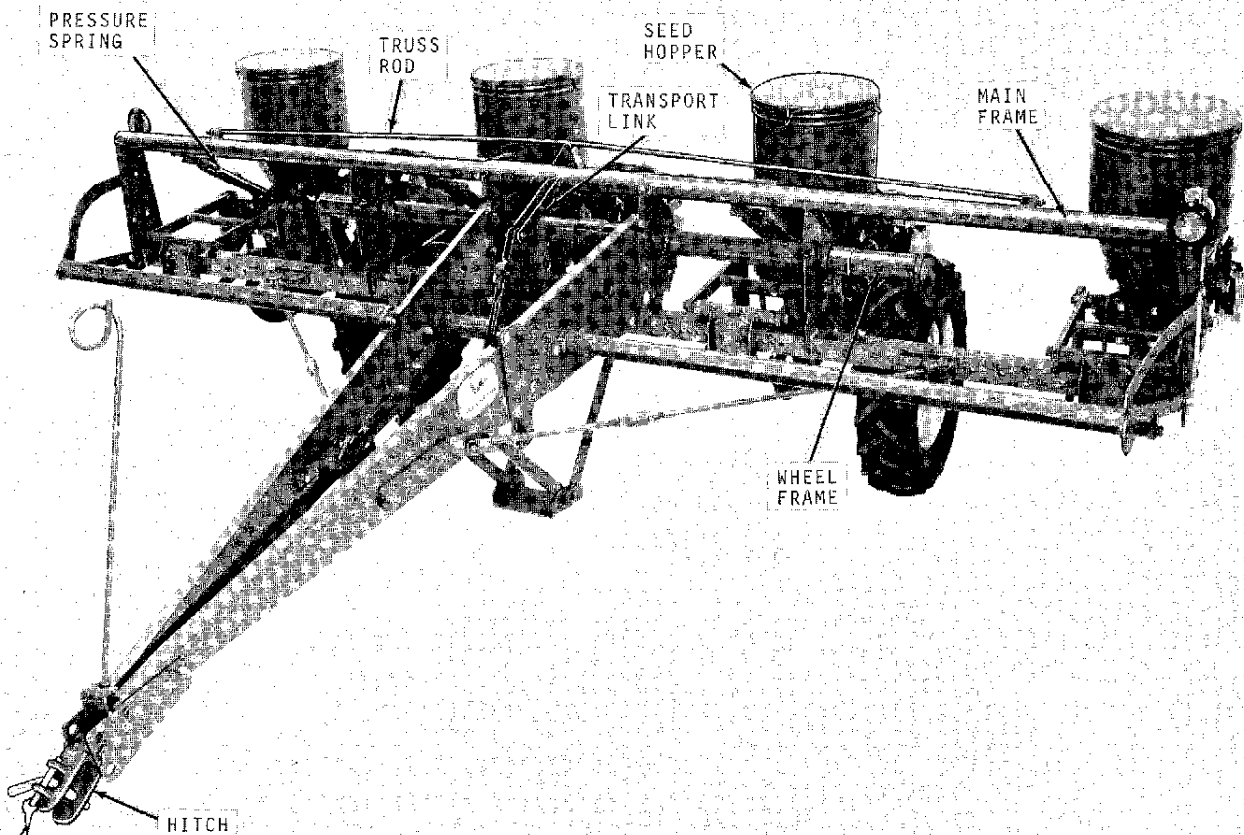
CARRYING WHEELS—Wheels less tires and tubes are regular equipment. Wheels with directional tread tires (6.70 x 15) and tubes mounted at factory are available.

PLANTING UNITS—Each 44 Unit Planter individually mounted for maximum flexibility. Each unit also has individual spring pressure for additional penetration.

NOTE: Refer to the 44 Unit Planter operator's manual for information on selecting seed plates, hill-drop and drill planting, and respective charts.

SEED HOPPERS—Approximately 1-1/6 bushels.

PLANTING DEPTH—Controlled by press wheel on each planting unit.



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4493 Cotton and Corn Planter

MARKERS—Either a mechanically activated chain marker or a Hyd'Row Marker may be used.

DOUBLE-DISK SEED OPENERS—14-inch double-disk seed openers with anti-friction bearings are used in trashy field conditions and for better penetration in hard soil conditions.

GAUGE SHOES—Gauge shoes are used for maintaining accurate planting depth in loose ground conditions.

COVERERS—Knife and disk coverers are available for more positive seed coverage.

INSECTICIDE ATTACHMENT—Will apply insecticide in the row with the seed at the time of planting.

GRANULAR HERBICIDE ATTACHMENT—Available for applying granular commercial herbicide on the row at the time of planting.

ROW LEVELING BLADES—This attachment will mix granular herbicide in the soil from the surface to a depth of approximately 1/2-inch, depending on soil types and conditions.

18 HITCH—The 18 Hitch allows two 4493 Planters set for 40-inch row widths to be used together.

SEED PACKER WHEEL—Will press the seed against the moist soil in the bottom of the furrow.

MINIMUM TILLAGE ATTACHMENT—This attachment decreases tillage operations prior to planting. It smooths the seed bed and assures a more uniform planting depth. Covering knives or disk coverers are recommended to be used in conjunction with the minimum tillage attachment.

FERTILIZER ATTACHMENT—

Dry Fertilizer Attachment—

Auger fed, two hoppers, capacity of each hopper is approximately 450 pounds.

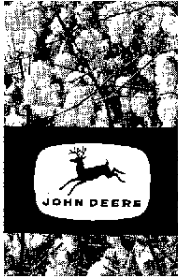
Liquid Fertilizer Attachment—

Gravity fed, two tanks, capacity of each tank is approximately 500 pounds.

FERTILIZER OPENERS—Runner or double-disk openers are available.

V-WING ATTACHMENT—Used for cleaning the clods and dry soil off the top of the surface of the soil. Cannot be used with double-disk seed openers.

(Specifications and design subject to change without notice).



OPERATION

PREPARING THE TRACTOR

The tractor must be equipped with an 8-inch stroke remote hydraulic cylinder that conforms to ASAE-SAE standards.

On tractors with adjustable drawbar, place the drawbar approximately 15 inches from the ground and bolt it in the center of the tractor.

If possible, set the tractor rear wheels 72 inches, center to center of tread and equal distance from center line of tractor. The planter ground wheels will then run in the center of the tracks left by the rear wheels of the tractor. If this cannot be done it is best to adjust the tractor rear wheels so the planter wheels run entirely out of the tractor wheel tracks.

PREPARING THE PLANTER

LUBRICATION

Consult the lubrication charts on page 31 for guidance in lubricating your planter.

Regular and systematic lubrication is the best assurance against breakdowns and delays. It will help you get better service from your Cotton and Corn Planter and save on your maintenance.

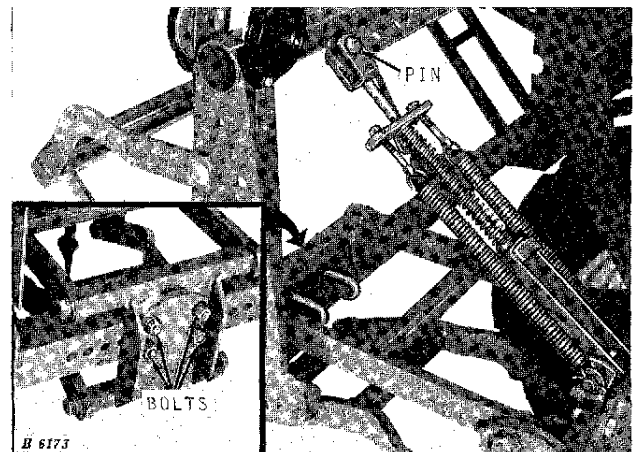
TIRE INFLATION

Inflate the planter 6.70 x 15 traction-type tires to 24 psi.

ROW WIDTHS

The 4493 Cotton and Corn Planter can be set to drill or hill-drop in 34-, 36-, 38-, or 40-inch row widths.

The planters are assembled for 40-inch row widths, as illustrated on page 5. To change the row widths proceed as follows:

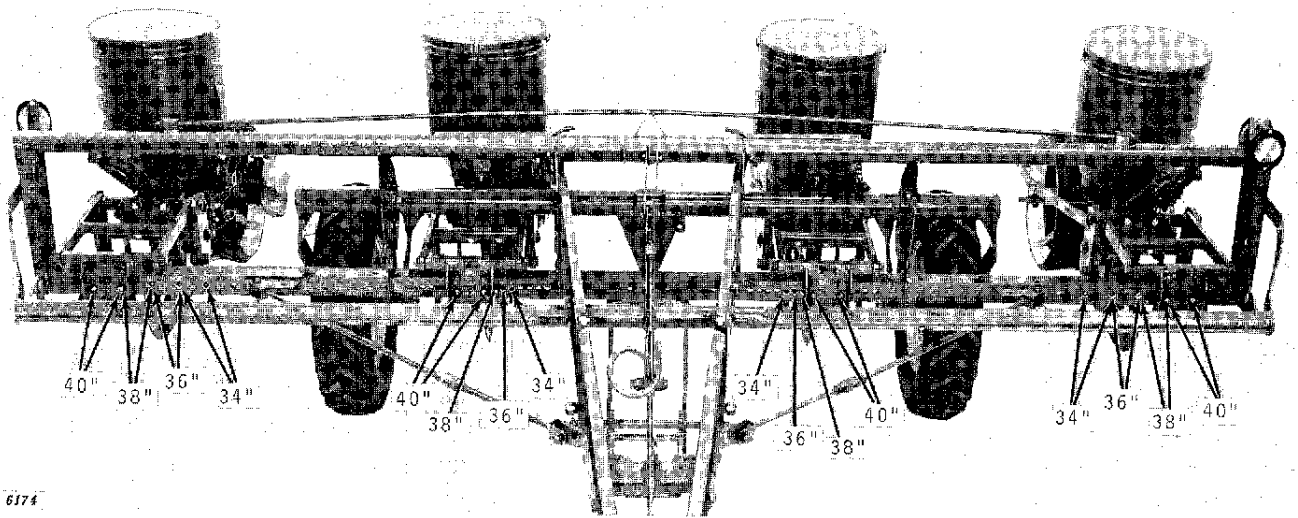


Lower the planter until the runners rest on the floor. Remove the four bolts holding the sill bar brackets to the main frame.

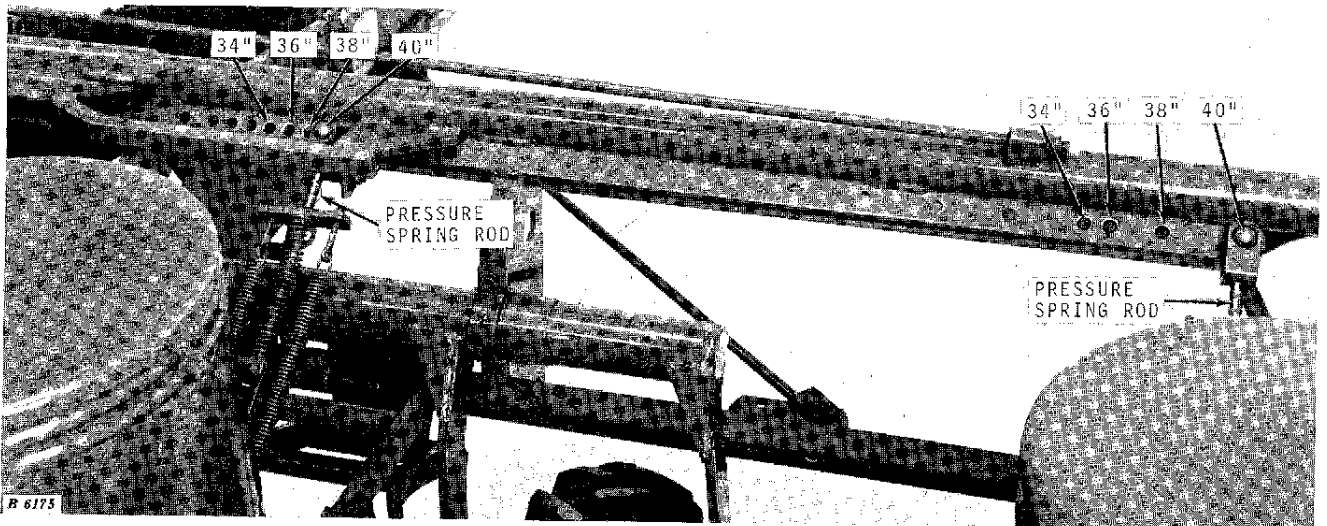
Remove the pin and cotter pin holding the pressure spring rods to the main frame.

Move the planting units and the spring rods to the desired row widths.

Bolt the sill bar brackets to the main frame and replace the pin and cotter pin in the pressure spring rods.



Front Sill Bar Brackets — set for 40-Inch Row Widths



Rear Pressure Spring Rods — set for 40-Inch Row Widths

SAFETY SUGGESTIONS

Be careful when operating the planter, to avoid injury to the operator and his assistants.

The planter should always be lowered to the ground when not in use. Whenever possible, service work and adjustments should be performed with the planter on the ground.

If the planter must be in a raised position while working on or near it, it should be securely supported by blocks.

Only one person--the operator--should be permitted on the tractor platform while tractor and planter are in operation.

Keep the loose end of each marker chain in the marker stop at all times, except when planting.

Never clean, lubricate, or adjust a machine that is in motion.

Refuel the tractor only when the engine has been shut off. Do not smoke or use an oil lantern when working around inflammable fuel, especially when refueling the tractor.

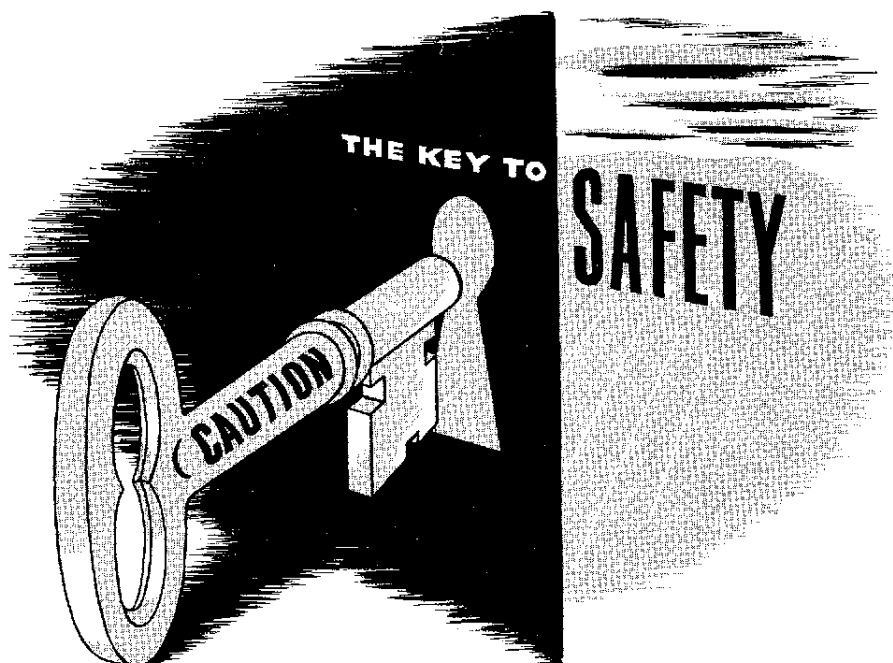
Never ride, or permit others to ride, on the drawbar of the tractor or on the planter.

CAUTION: When transporting the planter on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Be careful when operating on hillsides because the tractor may tip sideways if it strikes a hole, ditch, or other irregularity.

Agricultural chemicals can be dangerous. Improper selection or use can injure persons, animals, plants, soils, or other property. **BE SAFE:** Handle and apply it with care. Follow instructions of the chemical manufacturer.

Finally, remember this: An accident is usually caused by someone's carelessness, neglect, or oversight.



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