

494AN AND 694AN CORN PLANTERS



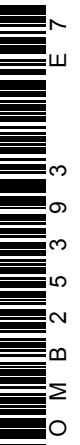
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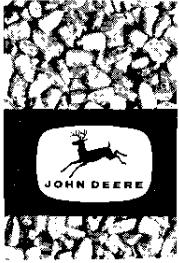
OPERATORS MANUAL 494AN AND 694AN CORN PLANTERS

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ENGLISH





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 is provided to furnish information on the proper operation, adjustment, maintenance, and lubrication of the planter.

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.



B 1088

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

494AN OR 694AN CORN PLANTER

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

Model:

- 494AN — With disk openers.
- 494AN — With runner openers.
- 694AN — With disk openers.
- 694AN — With runner openers.

Fertilizer Attachments:

- Dry
- Liquid
- Gauge Shoes
- Trash Kickers
- Press Wheel Scrapers
- Press Wheel Bands.
- Rubber Press Wheel Tires.
- Row Leveling Blades.
- Compaction Seed Runner

- Four Carrying Wheels
- 9-Inch Double Disk Furrowers and Covering Knives.
- 8-Inch Disk Coverers.
- Seed Packer Wheels.
- Minimum Tillage Attachment.
- Pea and Bean Attachment
- Insecticide Attachment.
- Granular Herbicide Attachment
- 14-Inch Double Disk Openers (Anti-friction bearing)

Date Purchased. _____



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SPECIFICATIONS

TYPE—

Drill Corn Planter.
6-Row - 28- or 30-inch row spacing.
4-Row - 38- or 40-inch row spacing.

OPENERS—

Runner openers - optional.
Disk openers - optional.
14-inch double disk openers with anti-friction bearings - optional.

ROW SPACING—

28-, 30-, 38-, or 40-inch rows.

TYPE OF LIFT—

Remote hydraulic cylinder.

TYPE OF DRIVE—

Sprocket and chain from ground wheels.

SEED HOPPERS—

1-1/5 bushel capacity, with seed gauges.

PRESS WHEELS—

18-inch press wheels that can be equipped with scrapers and/or press wheel bands, semi-pneumatic press wheel tires, or tractor tread press wheel tires.

MARKERS—

Disk type—automatically raise and lower when the planter is raised or lowered.

OVER-ALL TRANSPORT WIDTH—

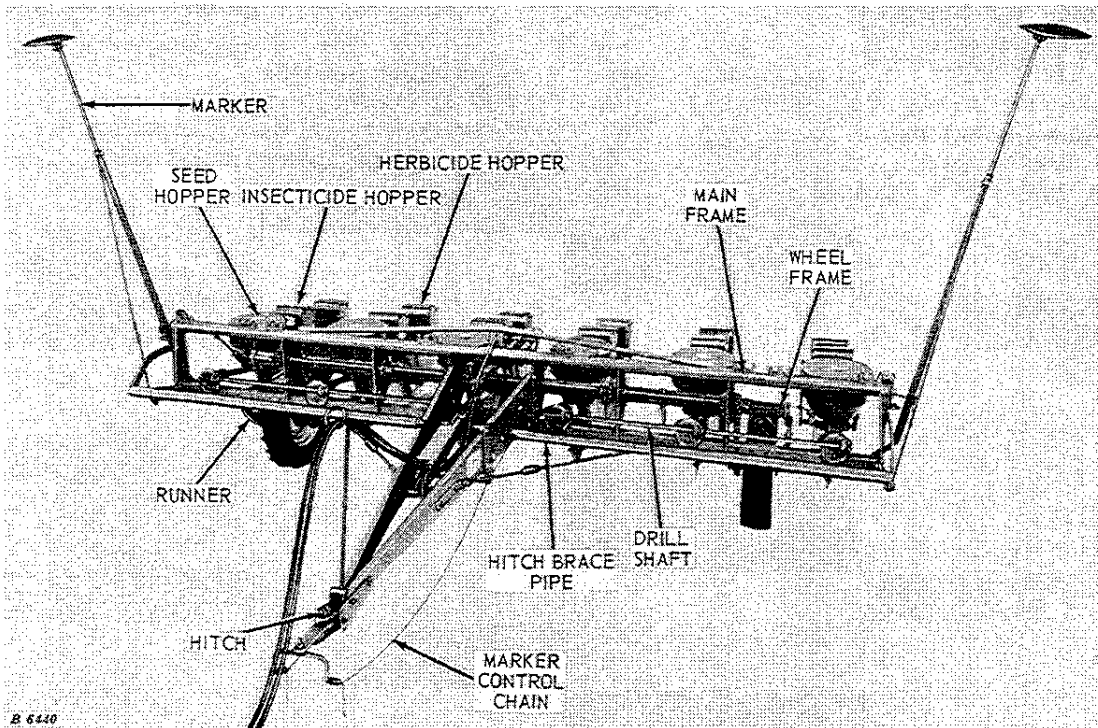
Approximately 15 feet 6 inches.

PLANTING UNITS—

Each unit individually mounted for maximum flexibility.

PLANTING DEPTH—

Controlled by press wheel on each planting unit.



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DRY FERTILIZER ATTACHMENT—

Auger feed.
Capacity - approximately 1350 pounds.
Openers - runner or double disk.

LIQUID FERTILIZER ATTACHMENT—

Gravity feed.
Capacity - approximately 1600 pounds (160 Gal.).
Openers - runner or double disk.

PEA AND BEAN ATTACHMENT—

Available for planting peas or beans in the row with the corn.

GAUGE SHOE ATTACHMENT—

7-1/2-inch gauge shoes are available for loose ground conditions.

DOUBLE DISK FURROWING ATTACHMENT—

9-inch furrower available for planting the seed in shallow furrows.

COVERERS—

Knife or disk coverers are available for more positive seed coverage.

ROW LEVELING BLADES—

Spring controlled blades which mix either granular or sprayed herbicide in the soil from the surface to a depth of approximately 1/2 inch, depending on soil types and conditions. It is advisable to use covering disks or covering knives with the levelers to insure adequate loose soil in the banded herbicide area.

COMPACTION SEED RUNNER—

Will make a wider seed trench which results in a more uniform planting depth and a more uniform germination.

NO. 9A, 11, AND 12 COMBINATION HITCHES—

The purpose of the No. 9A, 11, and 12 Combination Hitches is to combine the tillage and planting operation.

FOUR CARRYING WHEELS—

The four carrying wheels are available for use in soil conditions where it is desirable to have more flotation when planting.

INSECTICIDE ATTACHMENT—

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

TRASH KICKER—

Will push aside small stones and trash ahead of the runner.

GRANULAR HERBICIDE ATTACHMENT—

Available for applying granular herbicide over the row at the time of planting.

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 out 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.

PRE-EMERGENCE SPRAYER—

Will apply liquid herbicide over the row at the time of planting. The 22 or 25A Sprayer may be used for pre-emergence spraying.

(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 an 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 60 inches, center to center of tread and equal distance from center line of tractor. The planter ground wheels will then run in 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 pages 36-38 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 corn planter and save on your maintenance costs.

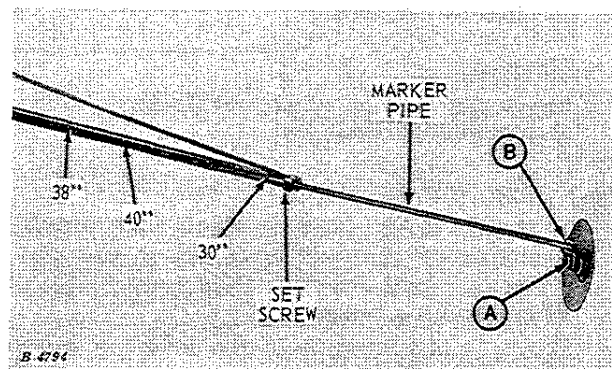
TIRE INFLATION

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

ROW WIDTHS

The planter is a 30-inch row width drill type corn planter. It may also be used to plant six 28-inch rows or four 38- or 40-inch rows.

MARKER ADJUSTMENT



The markers are adjustable for 30-, 38-, or 40-inch row widths.

The marker illustrated is set for 30-inch row widths. To change the markers for other row widths loosen the set screws so marker pipes will slide. Set the inside end of each marker pipe to line up with the center of the hole in the marker arm, for desired row width. Turn each marker pipe so bracket "A" is in position illustrated. Tighten the set screws securely to hold markers in position. The angle of each marker disk may be adjusted for various soil conditions by loosening bolt "B" and turning the disk. After adjustment is made tighten bolt "B" securely.

SEED PLATES

The selection of the seed plates is one of the most important steps in preparing the planter for the field.

There is a great variety of John Deere seed plates available in various cell sizes and number of cells.

Growing conditions change from year to year, and the size of the seed will also vary. Therefore, it is quite likely that different seed plates are required to plant the same variety of seed from year to year.

There are two ways to select seed plates. One way is to follow the recommendations of the seed supplier, if available. The other way is to take a sample of the seed to be planted to a John Deere dealer and let him run the seed through his John Deere seed plate selector stand.

In either case the accuracy of the seed plate selected should be checked when installed in your planter and operated at the planting speed you intend to travel. The best check is to plant a short distance, at the desired planting speed, and then stop and dig up the hills of corn to determine the actual planting rate.

The planting speed is very important in determining which seed plate to use. The planting rate is determined by the cell fill of the seed plate. The faster the planter is operated the faster the seed plate revolves. Therefore at faster planting speeds it may be necessary to use seed plates with slightly longer cell length to obtain the proper cell fill for the planting rate that is desired.

A 24-cell seed plate revolves at a slower rpm than a 16-cell seed plate, the result being better cell fill at the same planting speed. It is therefore recommended that a 24-cell seed plate be used in all cases when available for drill planting.

NOTE: Due to the fact that a 24-cell seed plate revolves at a slower rpm than a 16-cell seed plate, a 24-cell seed plate will plant at a heavier rate than a 16-cell seed plate with the same cell size at a given drilling distance and planting speed. The recommended planting speeds on page 12 take this into consideration for both 16- and 24-cell plates.

The following is a list of the most popular corn plates available with 16 and 24 cells.

Plates for Flat Kernels of Corn		
16-Cell	24-Cell	Kind of Corn
H697B	H2571B	Extra small corn
H694B	H1302B	Small corn
H1572B	H2711B	Small slender corn
H695B	H950B	Medium corn
H2156B	H2594B	Long thick corn
H696B	H2836B	Large corn
H2504B	H2848B	Medium flat slurry treated corn
H2503B	H2847B	Large flat slurry treated corn
B12498B	.....	Extra large flat slurry treated corn

Plates for Round Kernels of Corn		
16-Cell	24-Cell	Kind of Corn
H2295B	.....	Extra small round corn
H2043B	H2824B	Small round corn
H1933B	B10853B	Medium round corn
H2044B	H2712B	Large round corn
H2820B	.....	Extra large round corn.

6 Operation

The following is a list of the soybean plates and the edible bean plates:

Plates for Soybeans	
20-Cell	
H 1255 B	
H 2527 B	(Use with H1279B Floor Plate)

Plates for Edible Beans		
16-Cell	20-Cell	24-Cell
H 1324 B	H 1300 B	H 1301 B
H 1071 B	H 954 B	H 983 B
H 956 B	H 1315 B	.....
.....	H 1258 B	.....
.....	H 1254 B	.....
.....	H 1255 B	.....
.....	H 1084 B	.....

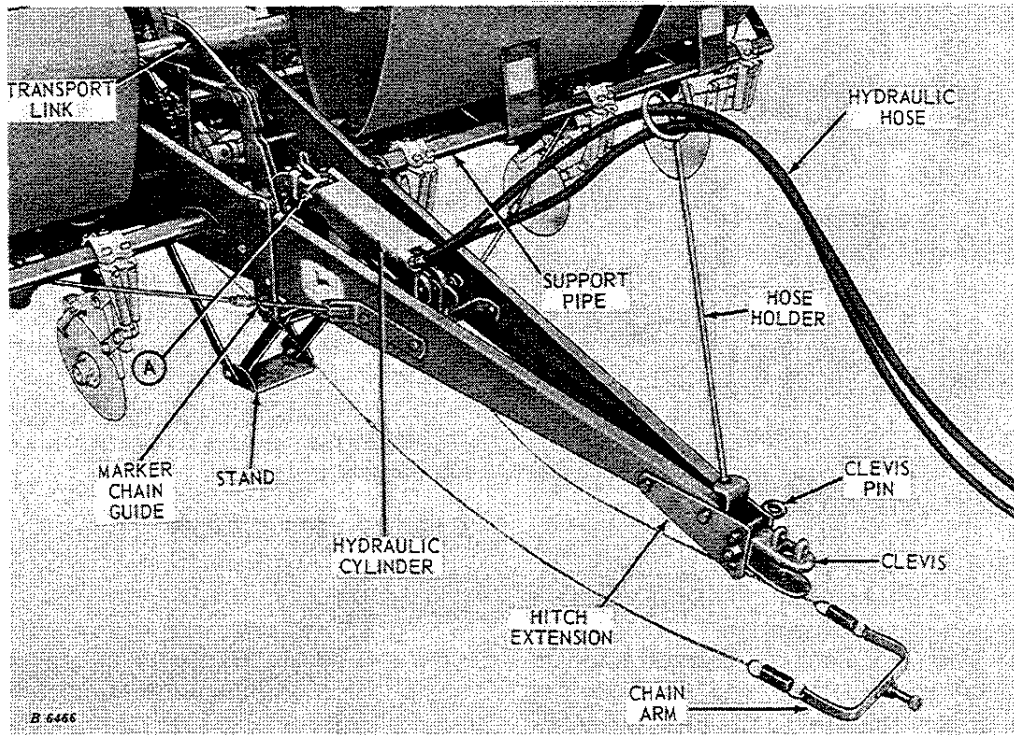
<p>It pays to be careful for your own sake! Accidents can . . . Pain Lame Maim and cost you money!</p>

The following is a partial list of seed plates which require a special false ring or floor plate, or the regular floor plate turned over:

Seed Plate No.	No. of Cells	Kind of Seed
uH 779B	16	Popcorn
uH 780B	16	Medium country gentleman sweet corn
uH 961B	16	Spanish corn and small popcorn
uH 963B	16	Large country gentleman sweet corn
uH 964B	16	Small sweet corn, small sun-flower seed
uH1238B	16	Medium shoe peg corn
uH1239B	16	Medium sweet corn, large sun-flower seed
uH1240B	16	Extra small country gentleman tapered sweet corn
kH1262B	16	Cantaloupes and cucumbers
oH1263B	16	Beet seed (thin plate)
oH1316B	16	Extra small round corn
sH1322B	16	Extra, extra small corn
sH1345B	16	Small round corn
sH1352B	16	Extra small narrow corn
nH1353B	16	Tomato seed (machined plate)
uH2505B	16	Popcorn
uH2671B	16	Popcorn
uH2709B	16	Popcorn
nB27768	16	Maize and grain sorghum
uH 781B	20	Popcorn
pH2527B	20	Soybeans—heavy planting
sH2672B	24	Maize and grain sorghum
uB27783	24	Maize and grain sorghum
nH1256B	25	Onion seed (machined)
nB27769	32	Maize and grain sorghum
uN2469	54	Maize and grain sorghum
uH 776B	...	Blank plate 5/32" thick (holes can be drilled up to 1/4")
kH1211B	...	Blank plate 5/32" thick (cells can be filed in edge)
nH1259B	...	Blank plate 5/32" thick (machined)

- k Use with Y3313B False Ring
- n Use with AH306B Floor Plate and Y5055B False Ring
- o Use with H1264B Floor Plate
- p Use with H1279B Floor Plate
- s Use with H1323B Floor Plate
- u Use with Y2630B False Ring or H1346B Floor Plate

HITCHING

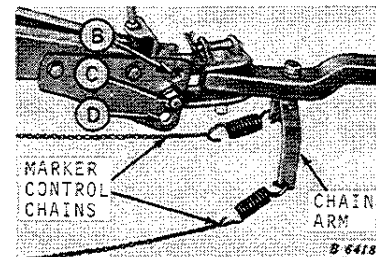


With the planter resting on the stand, back the tractor to the planter so the planter hitch is straight in line with the tractor drawbar. Install the remote hydraulic cylinder on the planter and set stop "A," as illustrated, so the cylinder will retract all the way. This will permit the planter press wheels to always gauge the planting depth. Install the hydraulic hose in the hose holder. Extend the cylinder and disconnect the transport links from the transport lug.

Remove the clevis pin from the clevis and place it in the hitch extension holes, as illustrated, to hold the clevis straight out. If the clevis is installed in the upper holes, place clevis pin in the lower hitch extension holes.

Place the marker control chains over the fertilizer drive, under the support pipes and through the chain guides. Attach the marker control chains to the springs and chain arm.

Retract the hydraulic cylinder until the planter hitch is the same height as the tractor drawbar. Attach the clevis to the tractor drawbar with the clevis pin and secure in place with the retaining pin as shown. Extend the hydraulic cylinder to raise the planter off of the stand.

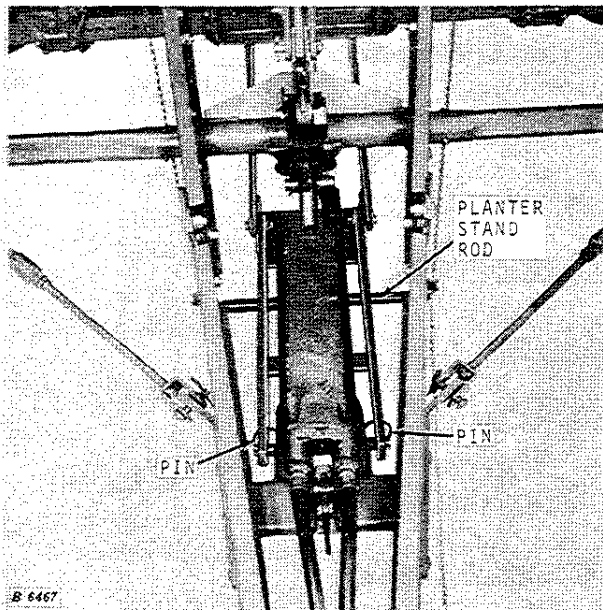


Attach the chain arm at right angles to the tractor drawbar. Tighten the bolt securely as the marker chain arm must be held rigidly to the tractor drawbar.

Set the clevis in holes "B," "C," or "D," so the lower edge of the planter hitch is parallel to the ground when in planting position.

NOTE: Retighten all bolts in hitch panel after planting approximately five acres.

HITCHING—Continued



Attach the spring to chain arm, and hook the left-hand marker control chain to spring at the shortest link possible, without stretching the spring.

Now pull the left-hand marker control chain until the marker control lever points to right-hand side of planter.

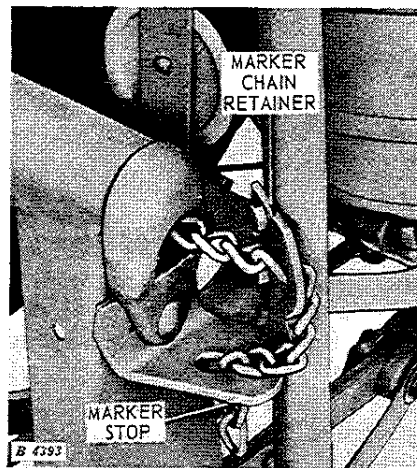
Attach the spring to chain arm, and hook the right-hand marker control chain to spring at the shortest link possible, without stretching the spring.

NOTE: Be certain all parts of marker assembly move freely.

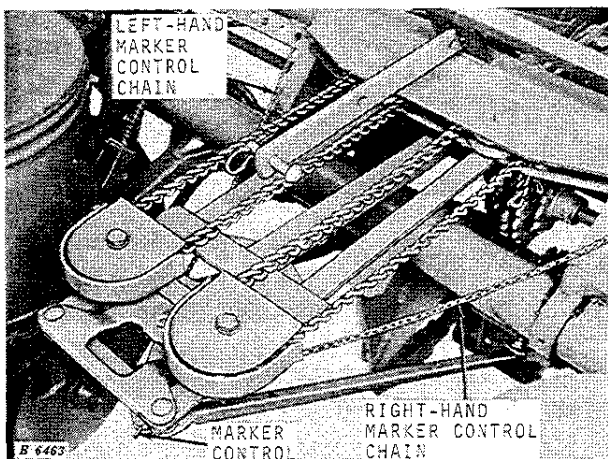
MARKER LIFT CHAINS

Pull the pins and push the planter stand up over the planter stand hitch rod and hook the front legs of the stand over the rod on the hydraulic cylinder bracket. Hold the planter stand in place with the pins.

To place the planter stand back into position for unhooking from planter, reverse the above procedure.



MARKER CONTROL CHAINS



With the remote hydraulic cylinder extended to maximum length, pull marker lift chains tight at each end of planter and adjust each lift chain in the marker chain retainer so marker arm is snug against the marker stop.

Place the loose end of each marker chain in the marker stop.

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

Pull the right-hand marker control chain until marker control lever points to left-hand side of planter, as illustrated.

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