

# 290 Corn Planter



## OPERATORS MANUAL

290  
Corn Planter

OMB25260 J7 English

**OMB25260 J7**

LITHO IN U.S.A.  
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 290 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.

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



### 290 CORN PLANTER

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

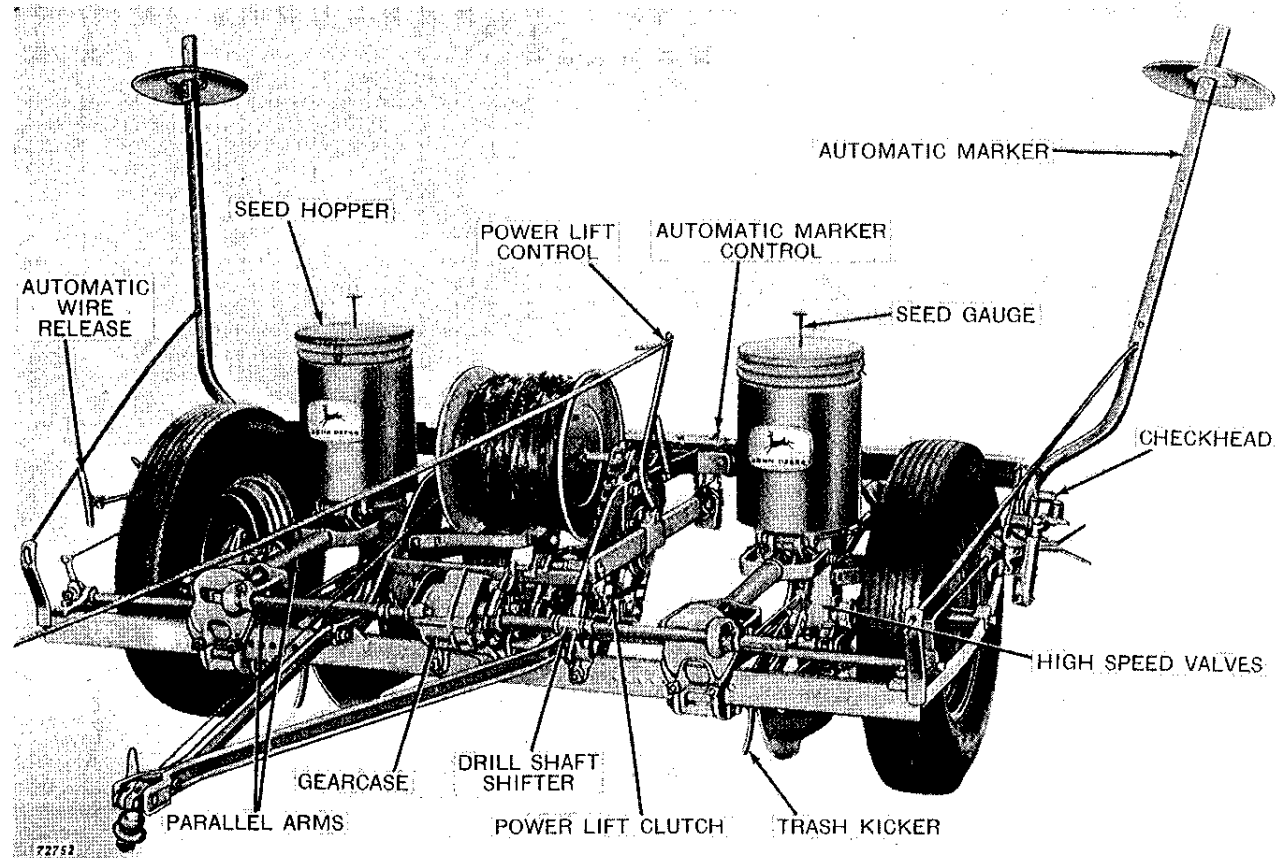
**Model:**

- 290 less Checkrower...
- 290 Drill.....
- 290 Drill with double disk openers.....
- Hill-Drop Attachment...
- Check-Row Attachment.
- Fertilizer Attachment:**
- Dry.....
- Liquid.....
- Gauge Shoes.....
- Trash Kickers.....
- Press Wheel Scrapers....
- Press Wheel Bands.....
- Traction tread press wheel tires.....

- Semi-Pneumatic press wheel tires.....
- Double-Disk Furrowers:**
- 9-inch.....
- 11-inch.....
- 11-inch w Anti-Friction Bearing.....
- Covering Kinves.....
- 14-Inch Double-Disk Seed Opener.....
- Pea Attachment.....
- Insecticide Attachment..
- Granular Herbicide Attachment.....
- Marker Extension Attachment.....
- Spring Pressure Attachment.....
- Reel and Wire.....
- Date Purchased.....

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*John Deere 290 Two-Row Corn Planter*

## SPECIFICATIONS

**Type**—The 290 Planter is a two-row pull-type corn planter available with or without a check-row attachment, or as a straight drill planter.

**Openers**—Runner Openers or 14-inch Double Disk Openers with runner openers.

**Row Spacings**—30, 32, 34, 36, 38, 40, or 42 inches.

**Type of Lift**—Mechanical lift. Hydraulic Remote Cylinder Adapter available as special equipment.

**Type of Drive**—Sprocket and chain from ground wheels, with a differential and gear case.

**Seed Hoppers**—One-half bushel capacity, with seed gauges regular.

**Press Wheels**—18-inch press wheels can be equipped with scrapers and/or steel press wheel bands, or rubber press wheel tires.

**Markers**—Disk type—automatically raised and lowered when planter is raised and lowered.

**Planting Units**—Each unit individually mounted for maximum flexibility.

**Planting Depth**—Controlled by press wheel on each planting unit.

**Fertilizer Attachment**—Dry or liquid. Places dry fertilizer in bands or hills; places liquid fertilizer in bands. With Split Boot Opener, a small quantity of fertilizer is distributed on both sides of row. With Disk Opener, a large quantity of fertilizer can be distributed to one side of, and level with, or below the hill.

**Trash Kickers**—Will push aside small stones and trash ahead of runner.

**Pea Attachment**—For planting peas or beans in the row with corn.

**Gauge Shoes**—For better depth control in loose ground.

**Double Disk Furrowers**—9- or 11-inch furrowers available for planting the seed in shallow furrows.

**Insecticide Attachment**—Will apply insecticides in the row with the seed, at the time of planting.

**Spring Pressure Attachment**—For added penetration in hard soil conditions.

**Covering Knife Attachment**—For use with 9- or 11-inch furrowers for more positive seed coverage.

*(Specifications and design subject to change without notice.)*

## OPERATION

### PREPARING THE TRACTOR

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 rear wheels 64 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 outside of the tractor wheel tracks.

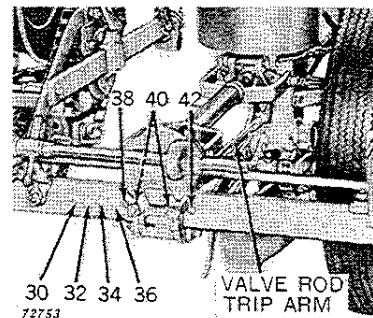
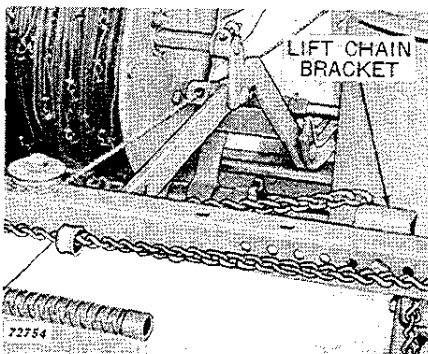
### PREPARING THE PLANTER

#### ROW WIDTHS.

The planter can be set to plant in 30-, 32-, 34-, 36-, 38-, 40-, or 42-inch row widths.

For check-row planting in row widths of 30, 32, or 34 inches, it is necessary to use a special 15-tooth sprocket (H2266B) to drive the drill shaft.

The planter, as illustrated, is set for 40-inch row widths. To change the row widths, remove bolts holding the sill bar brackets to main frame and loosen bolts in valve rod trip arms.



Remove bolts holding the lift chain brackets to main frame. Move the planting units, valve rod trip arms and lift chain brackets to desired row spacing. Bolt the sill bar brackets to main frame, tighten valve rod trip arm bolts, and bolt lift chain brackets to main frame.

Check valve adjustment as explained on page 40, after changing row widths.

#### TIRE INFLATION.

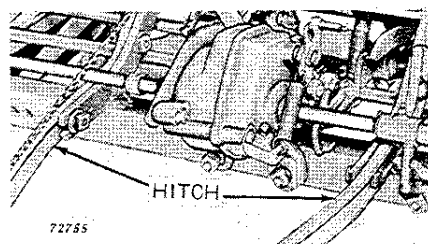
Inflate the planter tires to 24 psi.

#### GEAR CASE.

Remove the oil plug and check oil level in gear case. If necessary, fill gear case with SAE 20 oil.

### PLANTER HITCH.

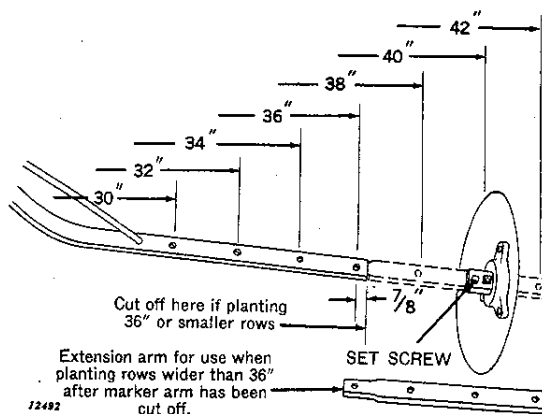
The rear of the planter hitch can be bolted to the planter frame in any one of three positions. Use the position which will permit the planter to run level.



### MARKERS.

The marker illustrated is set for 40-inch row widths. To set each marker for other row widths, remove bolt and slide marker disk to the desired setting and replace bolt.

For 30-, 32-, 34-, or 36-inch rows, each marker arm must be cut off  $\frac{7}{8}$ -inch outside the center of fourth hole from the end of marker arm so marker arm will clear the ground. For planting 38-, 40-, or 42-inch rows, after the marker arms have been cut off, it will be necessary to use two (H1883B) marker arm extensions.



Adjust the angle of the marker disk in the field. Loosen the set screw and angle the marker disk so it will cut a mark which will be easy to follow. Tighten the set screw.

### 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 is to follow the recommendation of the seed supplier and the other is to take a sample of the seed to be planted to a John Deere dealer and let him recommend the seed plates.

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

## SEED PLATES—Continued.

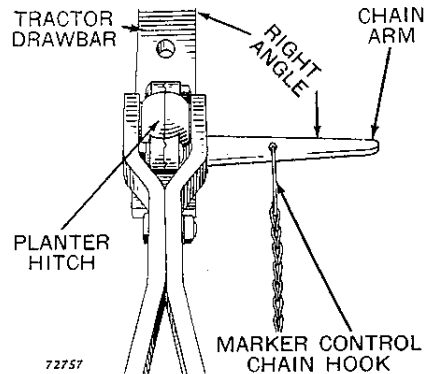
Seed Plate No.	No. of Cells	Kind of Seed	Seed Plate No.	No. of Cells	Kind of Seed
pH1282B	3	Red Kidney and Large Navy Beans, Corn (Bunching)	qH1298B	16	Extra Large Hickory King Corn
iH1284B	4	Large Hickory King Corn	oH1316B	16	Extra Small Round Corn
iH1069B	5	Hickory King Corn	pH1321B	16	Shelled Jumbo Peanuts
iH 979B	6	Large Hickory King Corn	sH1322B	16	Extra, Extra Small Corn
iH 988B	6	Hickory King Corn	sH1345B	16	Small Round Corn
uH1290B	8	Small Argentine Corn	sH1352B	16	Extra Small Narrow Corn
qH1291B	8	Extra Large Hickory King Corn	nH1353B	16	Tomato Seed (Machined Plate)
iH1292B	8	Hickory King Corn	uH2505B	16	Popcorn
pH1319B	8	Shelled Jumbo Peanuts	uH2671B	16	Popcorn
pH1351B	9	White Brazil Jack Beans (2 in a Cell)	uH2709B	16	Popcorn
qH1295B	12	Extra Large Hickory King Corn	nH2825B	16	Maize and Grain Sorghum
pH1320B	12	Shelled Jumbo Peanuts	uH 781B	20	Popcorn, Etc.
pH1350B	12	Garbanzo Beans (2 in a Cell) and White Brazil Jack Beans (1 in a Cell)	pH2527B	20	Soybeans—Heavy Planting
uH 779B	16	Popcorn, Etc.	sH2672B	24	Maize and Grain Sorghum
uH 780B	16	Medium Country Gentleman Sweet Corn	sH2673B	24	Vetch
iH 952B	16	Hickory King Corn	nH1256B	25	Onion Seed (Machined)
uH 961B	16	Spanish Corn and Small Popcorn	nH2661B	25	Maize or Grain Sorghum (Machined)
uH 963B	16	Large Country Gentleman Sweet Corn	nH3102B	32	Maize and Grain Sorghum
uH 964B	16	Small Sweet Corn, Small Sunflower Seed	uH 776B	..	Blank Plate 5/32" Thick (Holes Can Be Drilled Up to 1/4")
iH1005B	16	Large Hickory King Corn	kH1211B	..	Blank Plate 5/32" Thick (Cells Can Be Filed in Edge)
uH1238B	16	Medium Shoe Peg Corn	nH1259B	..	Blank Plate 5/32" Thick (Machined)
uH1239B	16	Medium Sweet Corn, Large Sunflower Seed	i Turn H685B		Floor Plate Groove Side Up
uH1240B	16	Extra Small Country Gentleman Tapered Sweet Corn	k Use with Y3313B		False Ring
kH1260B	16	Feterita, Milo Maize, Broom Corn, Etc.	n Use with AH306B		Floor Plate and Y5055B False Ring
kH1262B	16	Cantaloupes and Cucumbers	o Use with H1264B		Floor Plate
oH1263B	16	Beet Seed (Thin Plate)	p Use with H1279B		Floor Plate
			q Use with H1280B		Floor Plate
			s Use with H1323B		Floor Plate
			u Use with Y2630B		False Ring or H1346B Floor Plate



## HITCHING AND MARKER CONTROL

The marker control chain arm is part of the planter hitch and the marker controls should be adjusted when the planter is hitched to the tractor. When the planter is lowered and the marker controls are properly adjusted, the right-hand marker will drop after a sharp left turn and the left-hand marker will drop after a sharp right-hand turn.

Back the tractor to the planter so the planter hitch is straight in line with the tractor drawbar. Bolt the planter hitch to the tractor drawbar so planter is level and the marker chain arm is on the right-hand side and at a right angle to the tractor drawbar. Tighten bolt securely as marker chain arm must be held rigidly to tractor drawbar. The planter hitch can be bolted either on the top side (as illustrated) or the under side of the tractor drawbar, to level the planter.

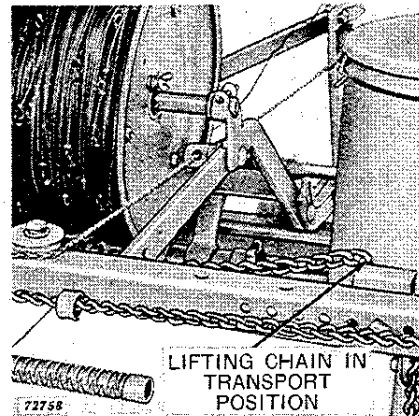


Hook the marker control chain to the chain arm.

## TRANSPORTING

When transporting the planter, hook the lifting chains in the notches over the chain sheaves. This takes the weight of the planting units off the power lift. Also, be sure the reel drive sprocket is disengaged when transporting the planter.

Do not transport the planter faster than 10 miles per hour on a smooth surface road. Reduce speed considerably when traveling over rough ground.



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.

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