

# 24B CORN AND 25B COTTON AND CORN UNIT PLANTERS



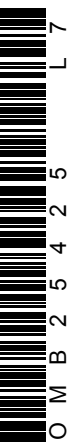
JOHN DEERE

## OPERATORS MANUAL 24B CORN AND 25B COTTON AND CORN UNIT PLANTERS

OMB25425 L7 English

**OMB25425 L7**

LITHO IN THE U.S.A.  
ENGLISH





## TO THE PURCHASER

Your new unit planter is sturdy and dependable. It will give long and efficient service if given proper care and operation.

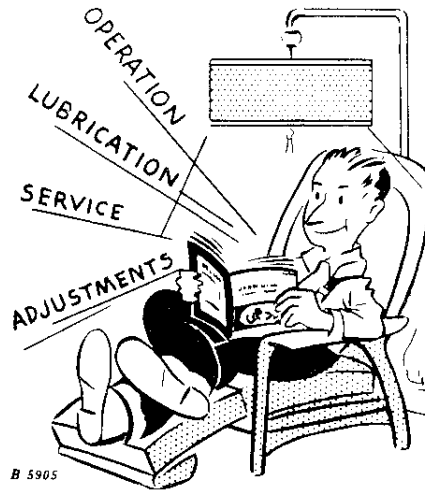
This operator's manual is provided to furnish information on the proper operation, adjustment, maintenance, and lubrication of your new planter.

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.

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

**IMPORTANT:** Proper lubrication is required to keep your planter in good working condition and to guard against excessive wear, breakage, or hard driving. See pages 45, 46, 47 for Lubrication Charts.



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

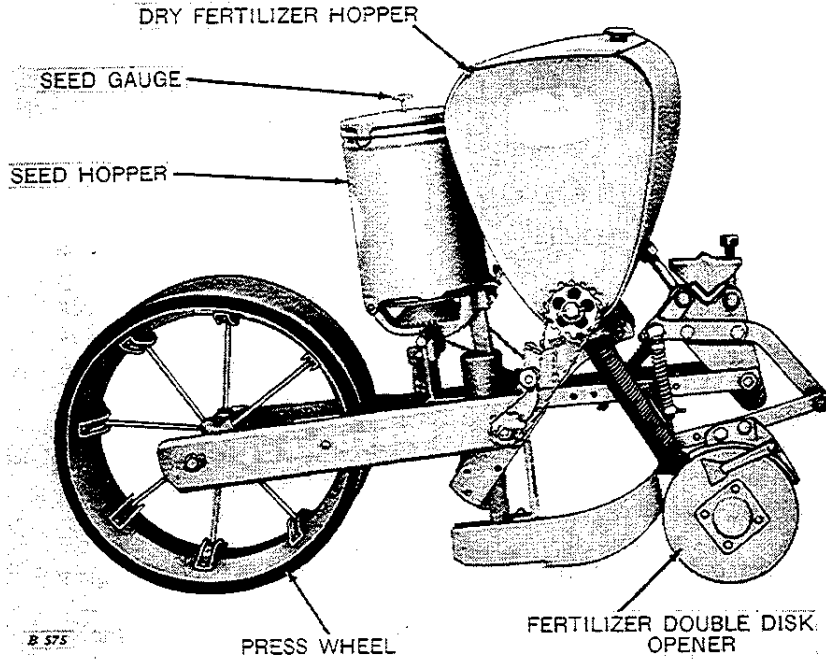
24B UNIT PLANTER FOR CORN . . . . .	<input type="checkbox"/>
25B UNIT PLANTER FOR COTTON AND CORN . . . . .	<input type="checkbox"/>
Date Purchased . . . . .	

*(To be filled in by Purchaser)*

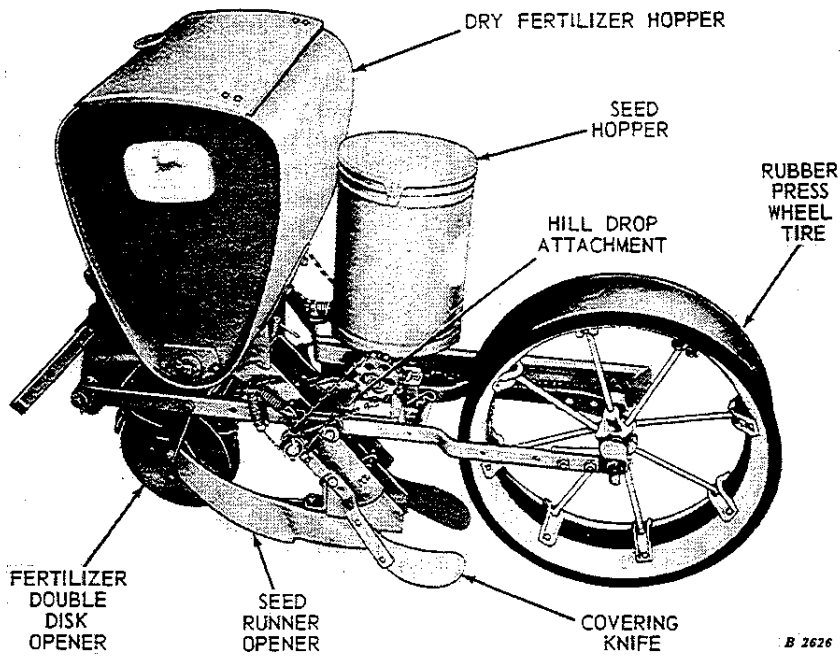


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24B Unit Corn Planter with Dry Fertilizer Attachment, Double Disk Fertilizer Opener and Rubber Press Wheel Tire



25B Unit Cotton and Corn Planter with Dry Fertilizer Attachment, Double Disk Fertilizer Opener, Rubber Press Wheel Tire and Hill-Drop Attachment



## SPECIFICATIONS

**TYPES - 24B -** Single unit corn planter. Can be attached to any 1-3/4-inch to 2-1/4-inch rear-mounted tool bar.

**25B -** Single unit cotton and corn planter. Can be attached to any 1-3/4-inch to 2-1/4-inch rear-mounted tool bar.

The following chart lists the number of units (with and without fertilizer attachments) used on a tool bar and the recommended John Deere Tractors.

1 Unit with or Without Fertilizer Attachment	2 Units with or Without Fertilizer Attachment	4 Units Without Fertilizer Attachment	4 Units with Fertilizer Attachment	6 Units Without Fertilizer Attachment
40, 330, 420, 430, 1010, or 1020	40, 420, 430, 1020, 2010, or 2020	520, 530, 620, 630, 720, 730, 2010, 2020, 2510, 3010, 3020, 4010, or 4020	620, 630, 720, 730, 4010, or 4020	4010 or 4020

**ROW WIDTHS -** 20-inch minimum without individual fertilizer attachment and 26 inches with individual fertilizer attachment. Maximum row widths are limited only by the length of the tool bar and the tool bar attaching parts.

**TYPE OF DRIVE -** Sprocket and chain from the press wheel axle.

**SEED HOPPER CAPACITY -** 1/2-bushel, regular; 3/4-bushel, optional.

**PRESS WHEEL -** 22-inch press wheel. Can be equipped with scrapers, and/or steel press wheel bands. Rubber press wheel tires are available.

**PLANTING DEPTH -** Controlled by the press wheel gauge shoe, or disk furrowers.

**GAUGE SHOES -** Wide or narrow gauge shoes available for maintaining accurate planting depth in loose soil conditions.

**LIQUID FERTILIZER ATTACHMENT -** Gravity feed. Delivery rate changed by changing the rate of travel or the orifice disk setting in the metering head. Tank capacity is approximately 250 pounds.

**FERTILIZER OPENERS -** Runner or double-disk openers available for side-placement of fertilizer, level with, or below the seed.

**DOUBLE-DISK FURROWERS -** 11- or 16-inch double-disk furrowers available for planting the seeds in furrows. (Adjustment of the 16-inch furrowers is limited when used in conjunction with the double-disk fertilizer openers.)

**DOUBLE-DISK SEED OPENER -** 14-inch double-disk seed opener available for use in trashy conditions and for better penetration in hard ground.

#### 4 Specifications

##### SPECIFICATIONS—Continued

- GRANULAR HERBICIDE ATTACHMENT - Available for applying granular herbicide over the row at time of planting.
- HILL-DROP ATTACHMENT - Used for dropping the seed in individual hills.
- PEA AND BEAN ATTACHMENT - Used for dropping corn and beans alternately in the row.
- COVERERS - Knife or disk covers are available for more positive seed coverage. (Knife covers are regular equipment on the 25B Planter.)
- INSECTICIDE ATTACHMENT - Used for applying granular insecticide in the row with the seed.
- SEED PACKER WHEEL - Will press the seed against the moist soil in the bottom of the furrow. Recommended for use in dry soils. It is not recommended for loose soils such as peat, or wet sticky soils.
- MINIMUM TILLAGE ATTACHMENT - Spring fingers prepare a 10-inch wide seedbed directly ahead of the seed runner in plowed ground.
- PLOW-PACKER WHEEL - A rubber-tired wheel which runs directly ahead of the seed runner and packs down a seedbed in plowed ground.
- 445, 451 AND 651 FERTILIZER UNIT FOR TOOLBAR - Can be mounted on any 2-1/4-inch square toolbar when larger capacity is desired.
- SHOVEL STANDARD ATTACHMENT - Used for planting in furrows or to break the crust ahead of the opener. Available with a spring-trip or a friction-trip.
- MARKERS - A two- or four-row marker is available.
- ROLLING COULTER ATTACHMENT - Used for stabilizing two or more planters in hilly conditions or when furrow planting. Cannot be used when row widths are less than 36 inches.
- UNSHELLED PEANUT ATTACHMENT - 25B Planter only - Used for planting peanuts in the shell.
- SHELLED PEANUT ATTACHMENT - 25B Planter only - Used for planting shelled peanuts.
- BRUSH CUTOFF AND BAFFLE PLATE - 25B Planter only - Used for planting fragile seeds such as castor beans.
- FINE SEED ATTACHMENT - 25B Planter only - Used for planting vegetable, grass and similar small seeds.
- DRY FERTILIZER ATTACHMENT - Auger feed. Delivery rate is determined by the type of augers installed in the hoppers, and by changing the sprocket combinations on the fertilizer drive. Hopper capacity is approximately 160 pounds. Fertilizer hopper is restricted to use with 1/2-bushel seed hopper.
- COLE HOPPER ADAPTER - 25B Planter only - Available for mounting a Cole Hopper on the planter.

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



# OPERATION

## PREPARING THE TRACTOR

### ALL TRACTORS

For complete operating instructions concerning the tractor, refer to the tractor operator's manual.

#### *Rear Wheel Tread*

If a single unit is being used, set the tractor wheel tread as nearly as possible the same width as the row width desired.

If two, four or six units are being used, set the tractor wheel tread as nearly as possible twice the distance of the row width. For example: For 40-inch row widths, set the tractor wheel tread at 80 inches.

#### *Tire Pressure*

Consult your tractor operator's manual for front and rear tire pressure.

### 40, 420, 430, 1010, OR 1020 SERIES TRACTORS

#### *Belt Pulley*

The belt pulley must be removed from the tractor, if the tractor is so equipped.

#### *Rockshaft Lift Arms - 40, 420, 430, or 1010 Tractors*

Adjust the tractor hydraulic system so integral cylinders are parallel and the lift arms operate together. See tractor operator's manual.

#### *Load-and-Depth Control System*

Lock out the Load-and-Depth Control action on the 40, 420, 430, or 1010 Series Tractor. Place the rockshaft selector lever in the "D" position on the 1020 Series Tractor.

#### *Lift Links*

On the 40, 420, 430, or 1010 Tractor attach the lift links to the inner holes on the rockshaft lift arms. Set the length of the left-hand lift link as recommended in the tractor operator's manual. The right-hand lift link provides adjustment for leveling the tool bar.

On the 1020 Tractor adjust the lift links for transport clearance and lateral float. See tractor operator's manual.

#### *Sway Chains or Sway Blocks*

Adjust the sway stop chains or sway blocks to eliminate all side sway when planter is in transport position.

#### *Front End Weights*

Add the necessary front end weights for efficient operation and safety. See tractor operator's manual.

1020 Series Tractors	
Two-Row Planter with Fertilizer Attachment	
Tractor	Front End Weight
1020 RU	400 Lbs.
1020 HU	300 Lbs.

6 *Operation*

2010 OR 2020 SERIES TRACTORS

*Belt Pulley*

The belt pulley must be removed from the tractor, if the tractor is so equipped.

*Sway Blocks*

Sway blocks must be positioned to eliminate all side sway except for contour planting.

*Rockshaft Lift Arms - 2010 Tractors*

Adjust tractor hydraulic system so integral cylinders are parallel and the lift arms operate together. See tractor operator's manual.

*Setting the Rockshaft Selector Lever*

Set the selector lever in the "D" position.

*Lift Links*

Adjust the lift links for transport clearance and lateral float. See tractor operator's manual.

*Front End Weights*

Add the necessary front end weights for efficient operation and safety. See tractor operator's manual.

2010 Row Crop or Row Crop Utility Tractor		
Front End Weight		
Two-Row Planter Without Fertilizer Attachment	Two-Row Planter With Fertilizer Attachment	Four-Row Planter Without Fertilizer Attachment
160 Lbs.	320 Lbs.	320 Lbs.

2020 Series Tractors	
Two-Row Planter with Fertilizer Attachment	
Tractor	Front End Weight
2020 RU	200 Lbs.
2020 HU	100 Lbs.

2510, 3010, 3020, 4010, OR 4020 SERIES TRACTORS

*Belt Pulley*

The belt pulley must be removed from the tractor, if the tractor is so equipped.

*Sway Blocks*

Sway blocks must be attached to eliminate all side sway except for contour planting.

*Setting the Rockshaft Selector Lever*

Set the selector lever in the "D" position.

*Lift Links*

Adjust the lift links for transport clearance and lateral float. See tractor operator's manual.

*Front End Weights*

Add the necessary front end weights for efficient operation and safety. See tractor operator's manual.



3020, 4010, or 4020 Series Tractors		
Four-Row Planter with Fertilizer Attachment		
Tractor		Front End Weight
3020 Row-Crop	Single Wheel	1000 Lbs.
	Roll-O-Matic	1000 Lbs.
3020 Utility or Standard	Adjustable Tread	700 Lbs.
	Adjustable or Fixed Tread	900 Lbs.
4010 Row-Crop	Single Wheel	600 Lbs.
	Roll-O-Matic	750 Lbs.
4010 Standard	Adjustable Tread	650 Lbs.
	Adjustable Front Axle - Long Wheelbase	300 Lbs.
	Adjustable Front Axle - Short Wheelbase	450 Lbs.
	Fixed Front Axle - Long Wheelbase	200 Lbs.
4020 Row-Crop	Fixed Front Axle - Short Wheelbase	350 Lbs.
	Single Wheel	600 Lbs.
4020 Standard	Roll-O-Matic	600 Lbs.
	Adjustable Tread	300 Lbs.
4020 Standard	Adjustable or Fixed Tread	400 Lbs.

520, 530, 620, 630, 720, OR 730 SERIES TRACTORS

*Sway Locks*

Install the sway locks to eliminate all side sway except for contour planting.

*Load Control Yoke*

Install the upper link in hole No. 3 of the load control yoke.

*Front End Weights*

Add the necessary front end weights for efficient operation and safety. See tractor operator's manual.

620, 630, 720, or 730 Series Tractors		
Tractor		Front End Weight
Four-Row Planter with Dry Fertilizer Attachment		
620 or 630	Single Front Wheel	670 Lbs.
	Roll-O-Matic	580 Lbs.
	Adjustable Front Axle	390 Lbs.
	Standard Tread	270 Lbs.
720 Gas or 730 Gas	Single Front Wheel	550 Lbs.
	Roll-O-Matic	455 Lbs.
	Adjustable Front Axle	245 Lbs.
720 Diesel or 730 Diesel	Standard Tread	0
	Single Front Wheel	365 Lbs.
	Roll-O-Matic	270 Lbs.
720 Diesel or 730 Diesel	Adjustable Front Axle	60 Lbs.
	Standard Tread	0
	Standard Tread	0
Four-Row Planter with Liquid Fertilizer Attachment		
620 or 630	Single Front Wheel	470 Lbs.
	Roll-O-Matic	415 Lbs.
	Adjustable Front Axle	260 Lbs.
720 Gas or 730 Gas	Standard Tread	45 Lbs.
	Single Front Wheel	380 Lbs.
	Roll-O-Matic	300 Lbs.
720 Diesel or 730 Diesel	Adjustable Front Axle	170 Lbs.
	Standard Tread	0
	Single Front Wheel	260 Lbs.
720 Diesel or 730 Diesel	Roll-O-Matic	180 Lbs.
	Adjustable Front Axle	50 Lbs.
	Standard Tread	0

8 Operation

TOOLBAR — ROW WIDTH

The minimum row width for the 24B or 25B Unit Planters is 20 inches. unit the minimum row width is 26 inches. The maximum row width is limited only. The following chart lists the row widths that can be obtained with various

Toolbar, Carrier, or Rear Rig	Size of Toolbar	Hitch Category	No. of Rows	20"
No. 1 Carrier	2" x 120"	1	2	
No. 1 Carrier	2" x 120"	1	4	
No. 1 Carrier	2" x 144"	1	2	
No. 1 Carrier	2" x 144"	1	4	
50 Rear Rig	2-1/4" x 84"	2	2	
80 Rear Rig	2" x 86"	1	2	
80 Rear Rig	2" x 86"	1	4	
90 Rear Rig	2" x 60"	1	2	
410A or 410B Toolbar — 9A or 9B Carrier	2-1/4" x 120"	2	2	a
410A or 410B Toolbar — 9A or 9B Carrier	2-1/4" x 120"	2	4	a
410A or 410B Toolbar — 9A or 9B Carrier	2-1/4" x 120"	2	6	a
412A or 412B Toolbar — 9A or 9B Carrier	2-1/4" x 144"	2	2	a
412A or 412B Toolbar — 9A or 9B Carrier	2-1/4" x 144"	2	4	a
412A or 412B Toolbar — 9A or 9B Carrier	2-1/4" x 144"	2	6	a
510B or 510C Toolbar	2-1/4" x 120"	2	2	a
510B or 510C Toolbar	2-1/4" x 120"	2	4	a
510B or 510C Toolbar	2-1/4" x 120"	2	6	a
510D Toolbar	2-1/4" x 120"	1	2	c
510D Toolbar	2-1/4" x 120"	1	4	c
510D Toolbar	2-1/4" x 120"	2	2	a
510D Toolbar	2-1/4" x 120"	2	4	a
510D Toolbar	2-1/4" x 120"	2	6	a
500E Series Toolbar	2-1/4" x 120"	1	2	
500E Series Toolbar	2-1/4" x 120"	1	4	
500E Series Toolbar	2-1/4" x 120"	2	2	a
500E Series Toolbar	2-1/4" x 120"	2	4	a
500E Series Toolbar	2-1/4" x 144"	2	4	a
500E Series Toolbar	2-1/4" x 144"	2	6	a
518 Toolbar	2-1/4" x 96"	2	2	a
518 Toolbar	2-1/4" x 96"	2	4	a
518D Toolbar	2-1/4" x 96"	1	2	c
518D Toolbar	2-1/4" x 96"	1	4	c
518D Toolbar	2-1/4" x 96"	2	2	a
518D Toolbar	2-1/4" x 96"	2	4	a
818 Toolbar	2-1/4" x 84"	1	2	

LEGEND:

- a - Row widths that can be obtained regardless of special equipment
- b - Row widths that can be obtained but planter cannot be equipped
- c - Row widths that can be obtained but lower draft pins must be
- d - Row widths that can be obtained but planter cannot be equipped
- \* Row widths of 14 inches can be obtained by using BB11223B, but

**SPACING**

When a fertilizer attachment is mounted on an individual toolbar and planter attachments.

22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"
			b	b	b	b	b	a	a	a	a
			b	b	b	b	b	a			
			b	b	b	b	b	a	a	a	a
			b	b	b	b	b	a	a	a	a
				d	d	d	d	a	a	a	a
			a	a	a	a	a	a	a		
			a								
			a								
a	a	a				a	a	a	a	a	a
a	a	a				a	a	a			
a											
a	a	a				a	a	a	a	a	a
a	a	a				a	a	a	a	a	a
a	a	a	a								
a							b	b	b	b	a
a						b	b				
a											
c	c			a	a	a	a	a	a	a	a
c	c			a	a	a	a	a			
a	a	c	c	c		a	a	a		a	a
a	a	c	c	c	c		a	a			
a											
a-c	c-d	c-d			d	d	d	d	a	a	a
a-c	c-d	c-d			d	d	d	d			
a	a	a-c	c-d	c-d	c-d		d	d	d	d	d
a	a	a-c	c-d	c-d	c-d		d	d			
a	a	a-c	c-d	c-d	c-d		d	d	d	d	d
a	a	a-c									
a	a	a				b	b	a	a	a	a
a	a	a									
c	c			a	a	a	a				
c	c			a	a						
a	a	c	c	c	c		a				
a	a	c	c	c	c						
				c	c	c	c	a	a		

on planter except rolling coulters cannot be used for any row widths less than 36 inches with shovel standard, tillage attachment, or plow-packer wheel.  
 turned in.  
 with 16-inch disk opener, shovel standard, tillage attachment or plow-packer wheel.  
 planter cannot be equipped with fertilizer attachment.

## 10 Operation

### ATTACHING TOOLBAR TO TRACTOR

Attach the toolbar (see pages 8 and 9 for toolbar selection) mounting brackets to the hitch draft links and secure each side with a quik lock pin. Position the toolbar mast and secure it to the hitch center link.

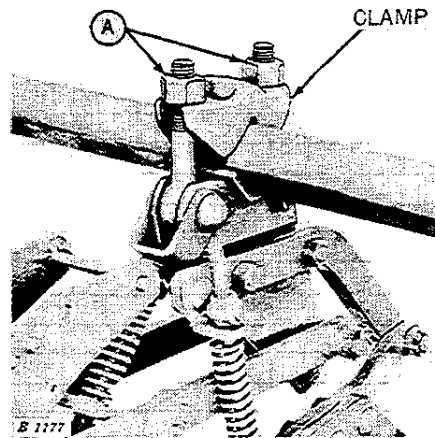
*NOTE: The Quik-Coupler for the 2010, 3010, 3020, 4010, or 4020 Tractor may be used with the toolbar and planters. Consult your tractor operator's manual for this information.*

### ATTACHING PLANTER TO TOOLBAR

Refer to pages 8 and 9 for various row widths obtainable with the 24B or 25B units on your toolbar.

To determine the location of the units on the toolbar, always start by finding the mid-point between the toolbar brackets. From the mid-point, measure one-half the desired row width to the left and one-half the desired row width to the right.

Mark the toolbar at these locations. For additional rows, measure the desired row width outward on each side of the toolbar and mark the toolbar. Continue until the desired number of rows have been located and the toolbar marked.



Attach the planter, or planters, to the toolbar, with the clamp centered on the mark on the toolbar and tighten the bolts "A" securely.

THE COMPLETE OBSERVANCE of one simple rule would prevent many thousand serious injuries each year. THAT RULE IS: "NEVER ATTEMPT TO CLEAN, OIL, OR ADJUST A MACHINE WHILE IT IS IN MOTION."

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