

John Deere 6100 Series Cotton and Maize Planters



JOHN DEERE

OPERATORS MANUAL

John Deere 6100 Series Cotton and
Maize Planters

OMA21680 Issue I2 English

John Deere Plow & Planter Works
OMA21680 Issue I2

LITHO IN U.S.A.
ENGLISH



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To the Purchaser

This new planter was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or service. Read the Table of Contents to learn where each section is located. Use the alphabetical index for fast reference.

In addition to the equipment furnished with your planter, attachments are available to help you do a better job in special crop conditions. These are described in the special equipment sections of this manual and can be purchased from your John Deere dealer.

“Right-hand” and “left-hand” sides are determined by facing in the direction the planter will travel when in use.

Record your planter serial numbers in the space provided on page 47. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your planter requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts—accept no substitutes.

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.

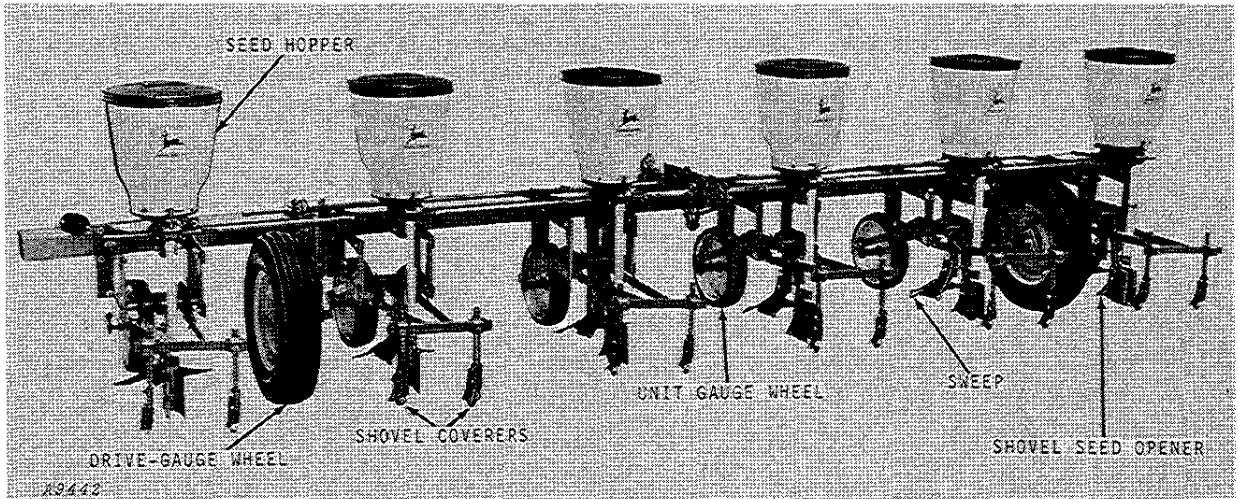


This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



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6-Row 6100 Planter with 4-Inch Chevron Tread Unit Gauge Wheels



Operation

PREPARING THE TRACTOR

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

Rear Wheel Tread

Set tractor wheel tread (center to center of tires) 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.

Adjusting Speed of Rockshaft Drop

Set the speed of the rockshaft drop on tractor on which the rockshaft and implement drop can be regulated.


Adjust the throttle valve to give a smooth, slow drop of the planter.

Front End Weighting

Front ballast (added weight) may be required for stability and steering control when operating.

The total maximum amount of weight recommended at the front wheels for normal field operation is approximately 1/3 of the total tractor weight.

The table on page 3 was developed to provide maximum safety for the operator, maximum efficiency of the tractor-implement combination, and adequate transport stability at recommended speeds.

 **CAUTION: Front end ballast may not always maintain the required stability if the tractor is driven too fast over rough ground with planter in raised position. Be safe and drive slowly under these conditions.**

To determine if additional front ballast is necessary for transport stability, refer to the code number listed in the chart on page 3 pertaining to your size planter. Using this number, see "Front Ballast" in your tractor operator's manual for proper weighting.

IMPLEMENT CODES		
How Equipped	4-Row	6-Row
Basic machine*	83	115
15-lb. insecticide	15	23
30-lb. insecticide	22	33
Herbicide	15	23
Insecticide and herbicide	22	33

* Basic machine includes planter frame, drive and gauge wheel assemblies, units with seed hoppers, and parking stand.

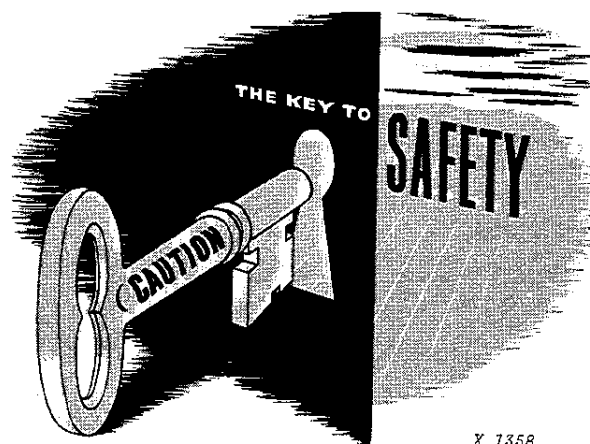
EXAMPLE:

Let's assume you have a six-row planter with insecticide and herbicide attachment. Checking the above chart, you will find an implement code of 115 for the basic machine. Add to this an implement code of 33 for the insecticide and herbicide attachments. This gives a total implement code of $115 + 33$, or 148.

Using this implement code, check "Front Ballast" in your tractor operator's manual to see how much front-end weight will be required.

NOTE: To obtain maximum front-end weighting for tractor-implement combinations where implement code information is not available, proceed as follows:

Drive tractor onto a scale so only the front wheels are on the scale and subtract this weight from $1/3$ the total tractor weight. Add front-end weights to equal the difference.



X 1358

PREPARING THE TRACTOR—Continued

Belt Pulley

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

Sway Blocks

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

Setting the Rockshaft Selector Lever

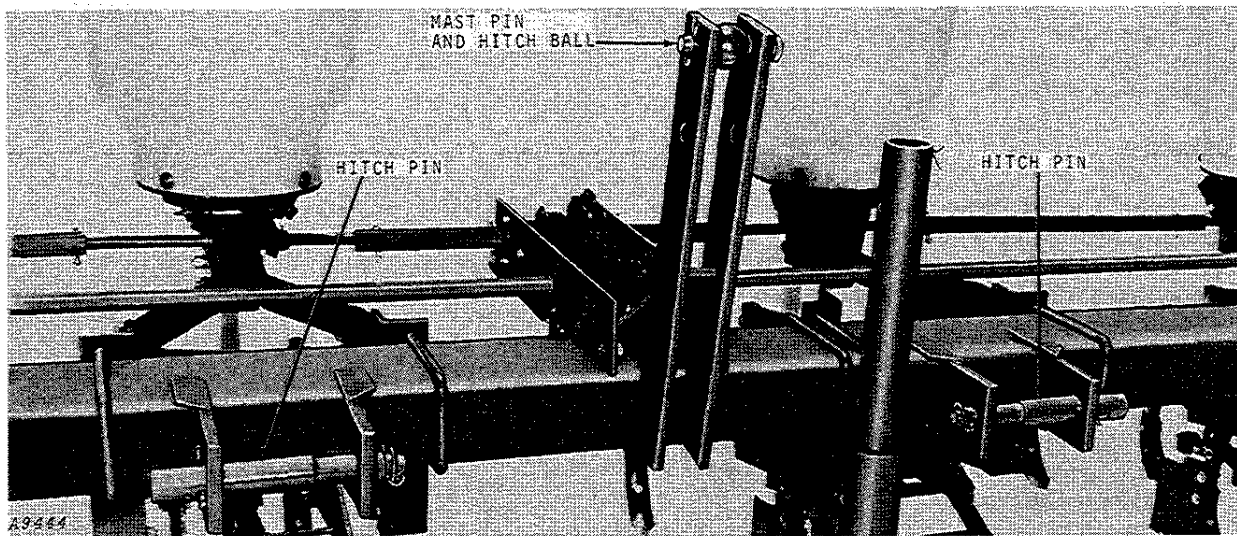
Set the selector lever in "D" position.

Lift Links

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

ATTACHING TO TRACTOR

3-Point Hitch



Hitch Pins and Hitch Ball Shown Positioned for 3-Point Hitch

Be certain rockshaft selector lever is in "D" position.

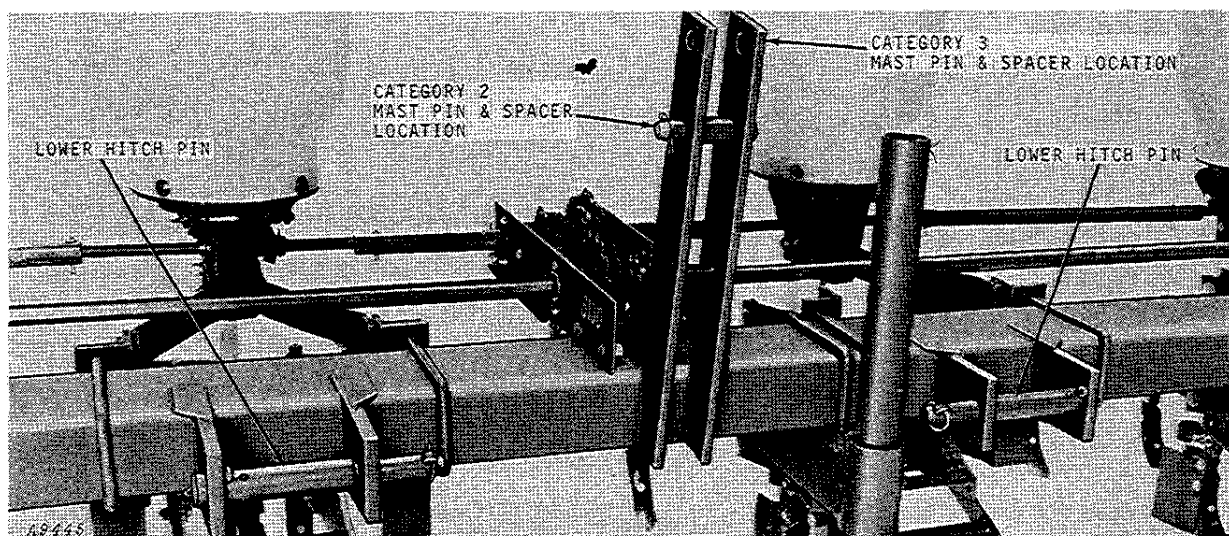
Raise draft links between inside and outside supports, line up holes, and insert hitch pins through outside hitch supports. Push hitch pins through draft link ball sockets and inside hitch supports and secure with Quik-Lock pin.

If tractor is equipped with telescoping draft links, close draft links either by raising and lowering planter with rockshaft control lever or by backing up tractor.

Be sure lock pins snap into place.

Connect center link to mast. It may be necessary to change length of center link with adjusting handle.

Quik-Coupler



Hitch Pins Shown Positioned for Category 2 Quik-Coupler

Be certain mast pin of hitch is in lower hole of mast before attaching to category 2 Quik-Coupler, or in upper hole of mast before attaching to category 3 Quik-Coupler.

Be certain rockshaft selector lever is in "D" position.

Lift Quik-Coupler latch handles to vertical position to lock latches in released position. Lower Quik-Coupler until the attaching hooks are lower than the planter hitch pins.

Back tractor up until Quik-Coupler attaching hooks are in position to engage planter hitch. Slowly raise rockshaft until spring-loaded latches automatically lock hitch pins in place. Push inward on latch handles until they are flat against coupler frame to lock lower attaching hooks.

DETACHING FROM TRACTOR

3-Point Hitch

With planter and tractor on firm level ground, lower planter to ground.

If planter is equipped with parking stand, secure stand in lowered position. See page 9.

Continue lowering planter until weight of planter is supported by parking stand.

Remove Quik-Lock pins from planter hitch pins and remove hitch pins to free tractor draft links.

Drive tractor forward away from planter.

Replace hitch pins and Quik-Lock pins in planter hitch.

Quik-Coupler

With planter and tractor on firm level ground, raise tractor rockshaft far enough to reach Quik-Coupler latch handles. Raise handles to vertical position to release latches. Lower planter to ground.

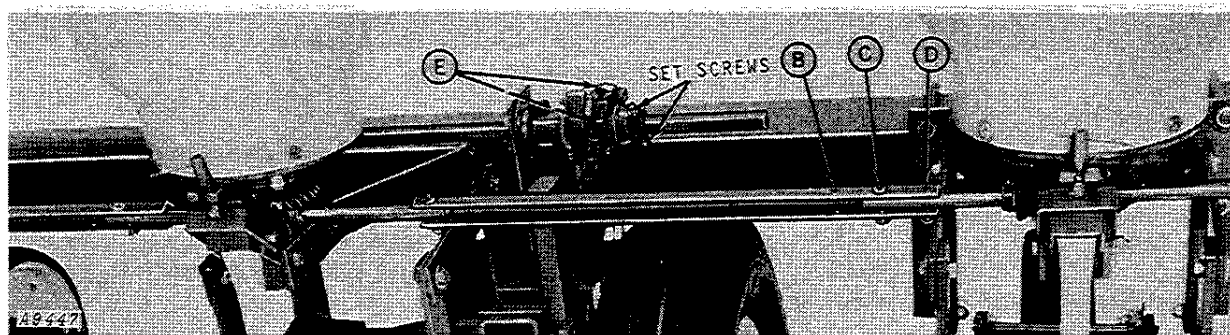
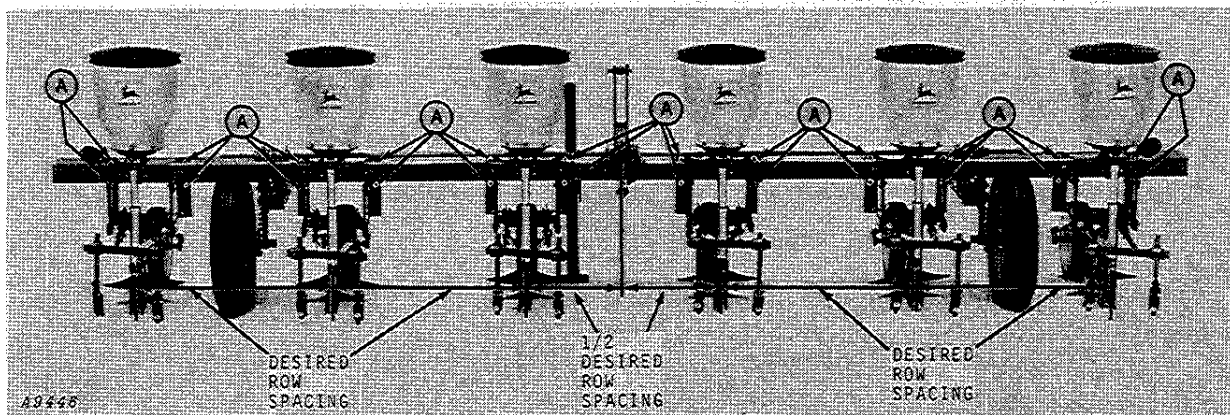
If planter is equipped with parking stand, secure stand in lowered position. See page 9.

Continue lowering Quik-Coupler until coupler hooks clear planter hitch.

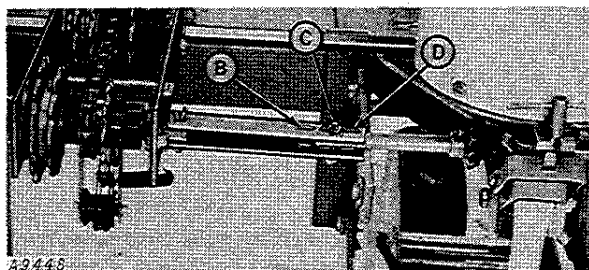
Drive tractor forward away from planter.

PREPARING THE PLANTER

Row Spacing



Outer Drive Coupler



Inner Drive Coupler

36-, 38- and 40-inch row spacings are available. To change row spacings, proceed as follows:

Remove cotters, washers and connecting pins from drive couplers. Loosen bolts "A" and position the inside units so the seed openers are one-half the desired row width from the center of the planter. Position all other units so the seed openers are at the desired row width or multiples of the row width from this unit.

Install drive couplers with pins at "B" for 36-inch rows, at "C" for 38-inch rows, or at "D" for 40-inch rows.

If it is necessary to reposition drive-gauge wheels between rows, support planter securely on stands and loosen attaching bolts at "E" and set screw in driven sprocket. Slide wheel and drive assembly in or out to desired position and tighten set screw and bolts "E."

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