

JOHN DEERE 7100 MOUNTED MAX-EMERGE PLANTERS



OPERATORS MANUAL JOHN DEERE 7100 MOUNTED MAX-EMERGE PLANTERS

OMA33814 C7 English

JOHN DEERE PLOW & PLANTER WORKS
OMA33814 C7

LITHO IN THE U.S.A.
ENGLISH





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 Attachment section 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 138. 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.

Because John Deere sells its products world-wide, U.S. units of measure are shown with their respective Metric equivalents throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.



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Safety Suggestions

GENERAL

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The safety of the operator was one of the prime considerations in the minds of John Deere engineers when this planter was designed. Shielding, simple adjustments, and other safety features were built into the planter wherever possible.

You can make your farm a safer place to live and work if you observe the safety suggestions given. Study these suggestions carefully and insist that they be followed by those working with you and for you.

TRANSPORTING

Always lock markers in transport position before transporting the planter any considerable distance.

Stand clear of disk blade when raising or securing marker.

When transporting the planter on a smooth surface road, do not exceed maximum tractor transport speed. 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 operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

SERVICE

Always lower the planter to the ground when not in use. Whenever possible, perform service work and adjustments with the planter on the ground.

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

OPERATION

Permit only one person, the operator, on the tractor platform while tractor and planter are in operation.

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

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

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

HYDRAULIC OIL

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Hydraulic oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

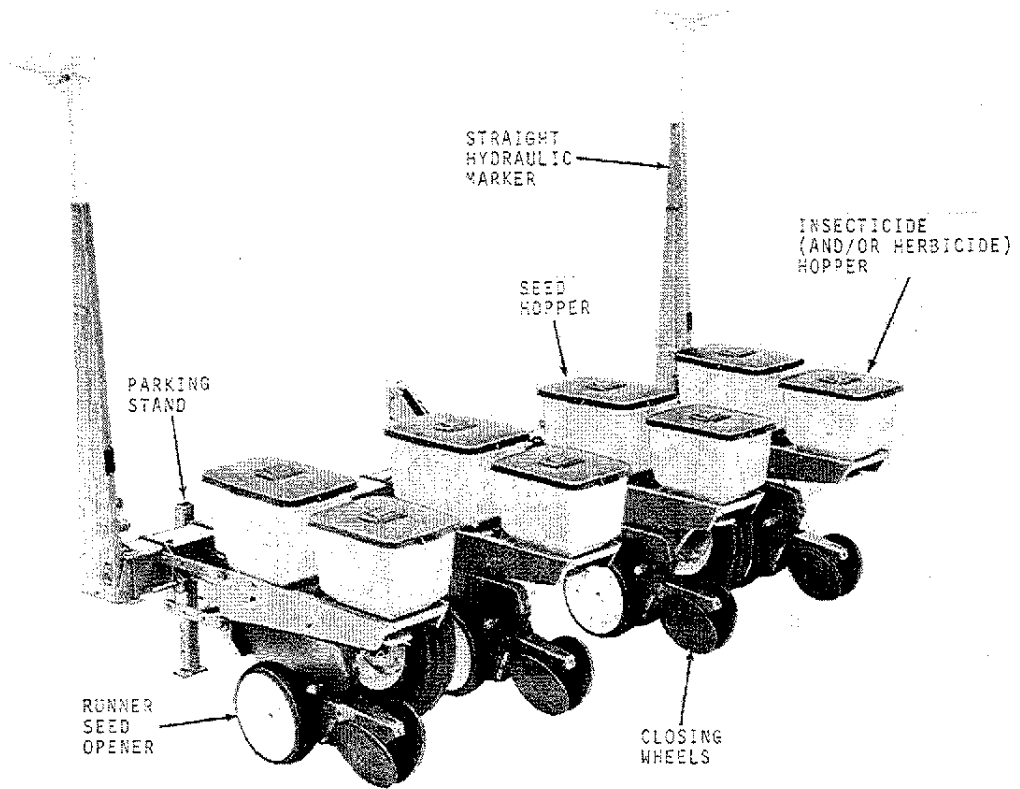
If injured by escaping hydraulic oil, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

Always relieve pressure in the hydraulic system before working with hydraulic system components.



Identification Views

3-6

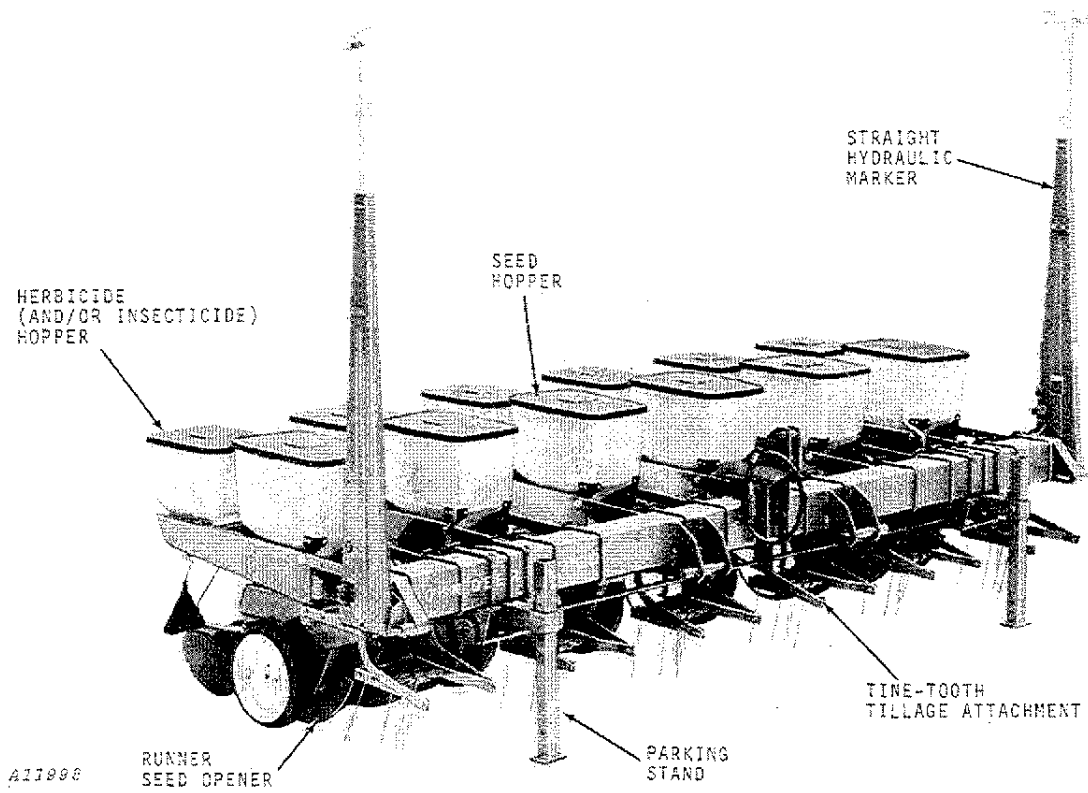


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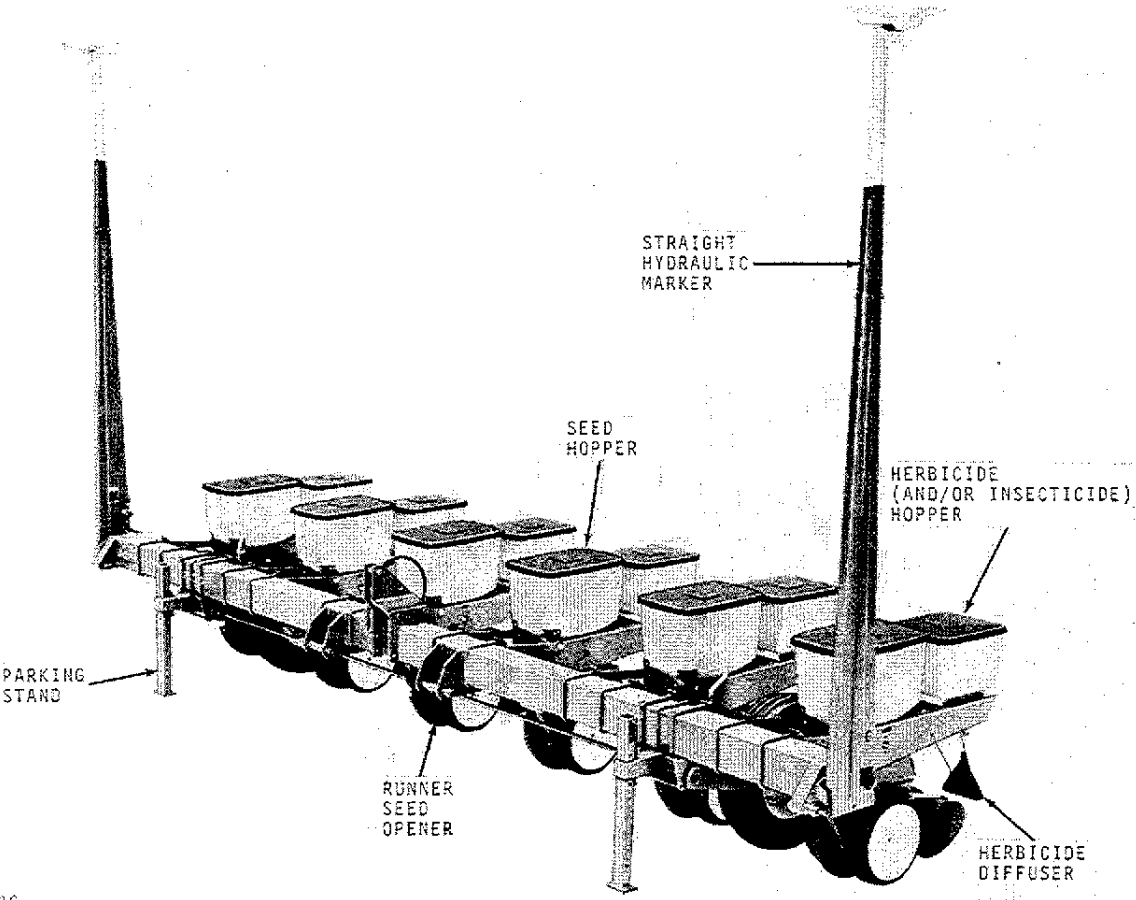
4-Row Wide with Insecticide Attachment

4 Identification Views

3-6



6-Row Narrow with Herbicide and Tine-Tooth Tillage Attachments



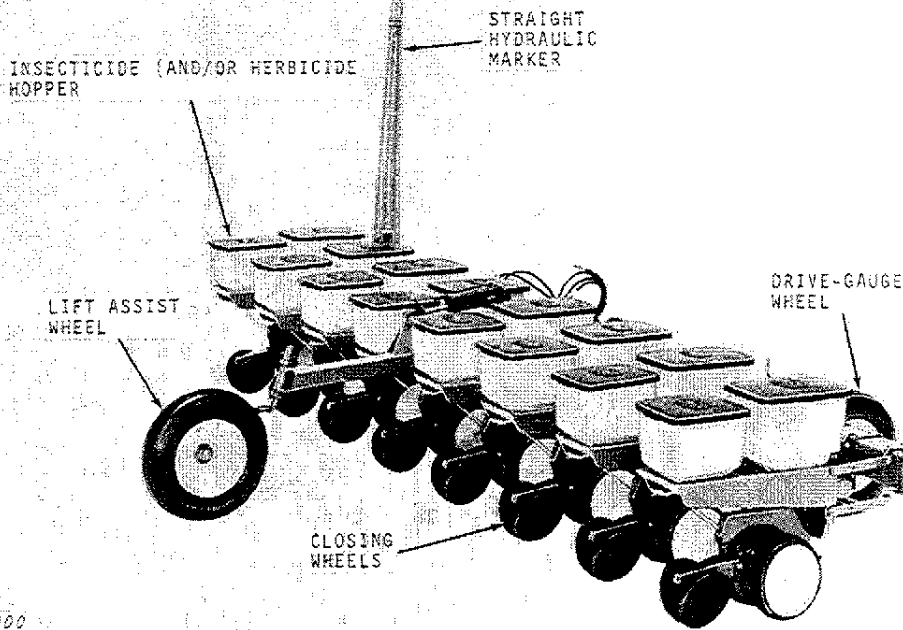
3-6

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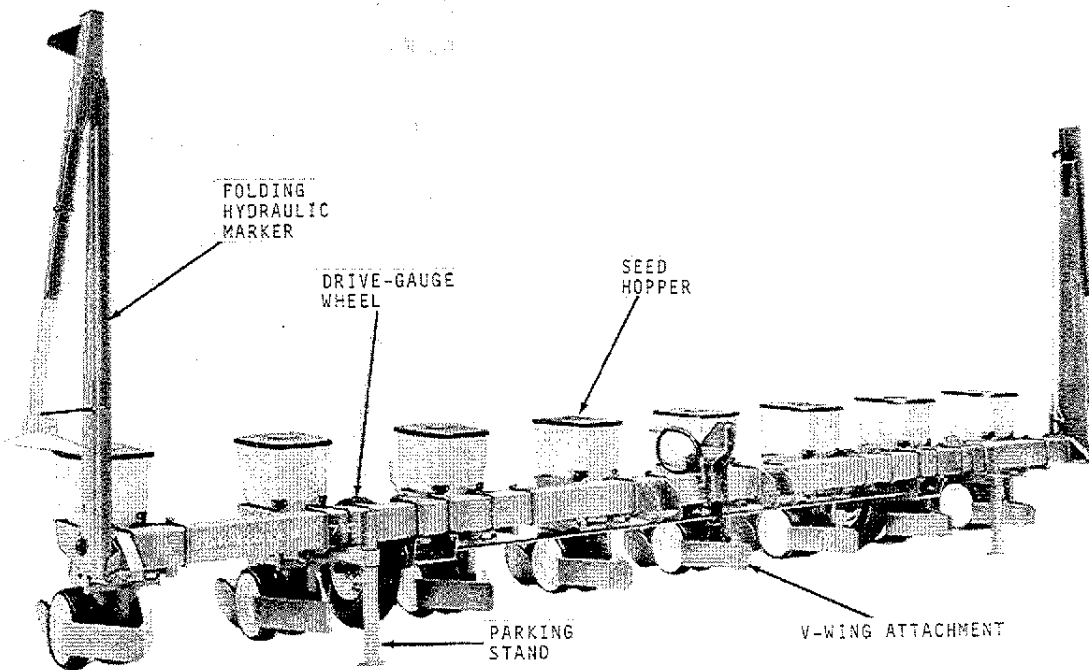
6-Row Wide with Herbicide Attachment

6 Identification Views

3-6



8-Row Narrow with Single Lift-Assist Wheel and Insecticide Attachment



8-Row Wide with V-Wing Attachment



Preparing For Use

PREPARING THE PLANTER

General

The 7100 Mounted Max-Emerge Planters have strong 7- x 7-inch (175 x 175 mm) tubular main frames designed for use with category 2 hitch tractors with or without Quik-Coupler and category 3 hitch tractors with Quik-Coupler. The frame is carried and the planting units are driven by screw-adjusted drive-gauge wheels.

7100 Planters are completely integral, semi-integral with single or dual lift-assist wheels, or equipped with lift-assist wheel(s) and hydraulic mast for planting on beds or in particularly uneven field conditions. See story at right.

When properly adjusted to meet the field conditions on your farm, your new planter will do a good job at a minimum of expense.

Length of life and maximum operating efficiency depend largely upon good care and proper adjustment.

Improper adjustment results in rapid wear, possible breakage of parts, and inefficient operation.

Before starting to work with a new planter or one which has been stored, check to see that all bolts and set screws are tight (see torque chart on page 92), and all cotter pins spread to keep them from falling out.

A good practice is to check for loose bolts, screws, or parts before attaching to the tractor. Loose bolts are easily lost or cause excessive wear on parts, resulting in possible serious damage. See page 92 for proper torque specifications.

Hydraulic Mast

If your planter is equipped with a hydraulic mast, it is essential that you understand its use.

The hydraulic mast gives you both integral and semi-integral operation.

When in transport, the planter operates in a semi-integral fashion.

By holding the tractor remote cylinder operating lever in the "automatic retract position" (with lever lock clip), the planter hitch becomes flexible for traveling over uneven terrain.

When planting, integral operation is assumed.

By holding the remote cylinder operating lever rearward until the mast cylinder is fully retracted and the lift-assist wheels are fully raised, the planter becomes rigid.

This prevents any rocking motion which might occur during operation.

Tire Inflation

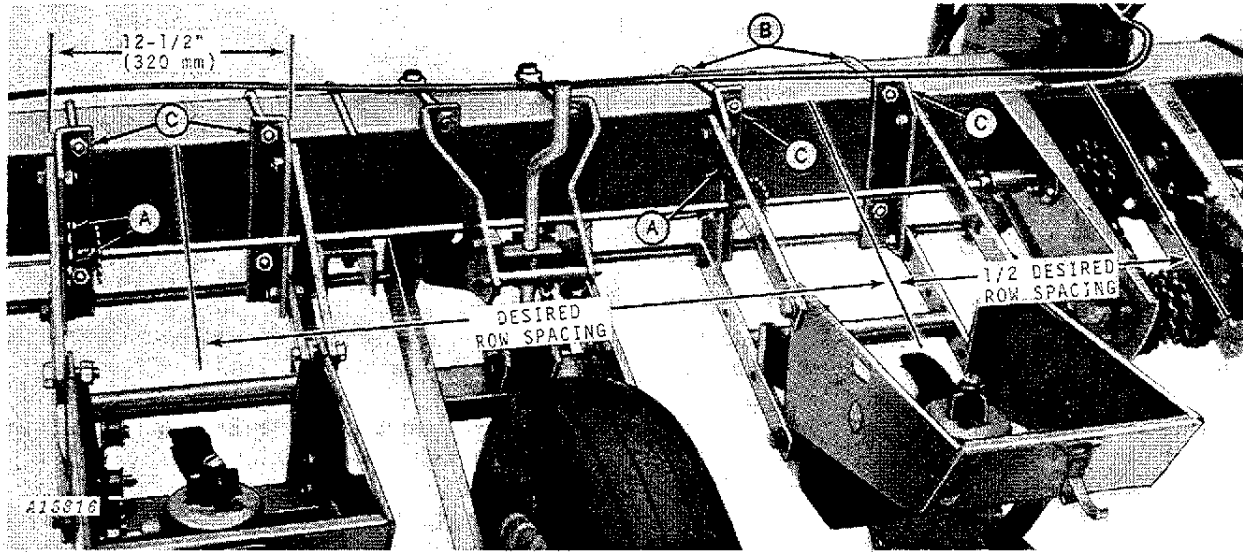
Inflate 7.60-15 (6 PR) tires to 40 psi (2.8 bar) (2.8 kg/cm²) of air pressure.

Lubrication

Be sure your planter has been properly lubricated. Consult the lubrication illustrations on pages 75 and 76 for lubrication instructions.

Regular and systematic lubrication is the best assurance against breakdown and delays. It will help you get better service from your planter and save on your maintenance costs.

Row Widths



A—Drill Shaft Bearing Bolts B—Planting Unit U-Bolts C—Planting Unit Mounting Angles

(Seed Hoppers Removed for Clarity)

The 7100 Planters are available for planting the following row widths:

4-row wide, 6-row wide, and 8-row wide planters - 36-inch (91 cm), 38-inch (97 cm), and 40-inch (102 cm) row widths.

6-row narrow and 8-row narrow planters - 30-inch (76 cm) row width only.

To change row widths on wide row planter, lower the planter (hoppers empty) until openers rest on the ground.

Remove drill shaft bearing bolts (A) and loosen the planter U-bolts (B). If reducing row width, slide the bearings toward the center of the planter.

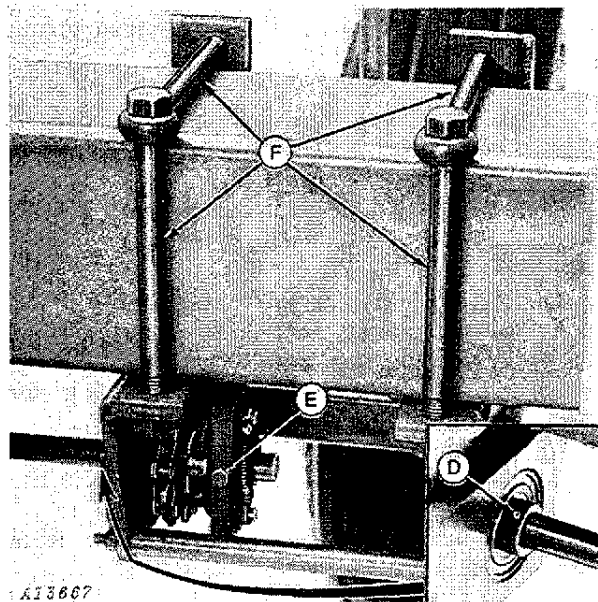
Place each inside planting unit so the center of the unit is one-half the desired row width from the center of the planter frame.

Place other units at the desired row width from these units. Be certain unit mounting angles are vertical and spaced at approximately 12-1/2 inches (320 mm), outside to outside. Tighten U-bolts uniformly to 105 foot-pounds (142 Nm) (14.2 kgm) of torque.

Attach drill shaft bearings to planting units with bolts removed earlier.

Check all drive components for interferences and check planting unit openers to insure seed tubes and openers are free of dirt or other foreign material.

NOTE: The drive-gauge wheels are factory-set for 38-inch (97 cm) row spacing. If 36- or 40-inch (91 or 102 cm) row spacing is desired, the drive-gauge wheels must be moved accordingly.



D—Bearing Set Screw F—Clamp Bolts
E—Ratchet Carrier Bolt

To move the drive-gauge wheel, loosen bearing set screw (D), loosen clamp bolts (F), and remove ratchet carrier bolt (E). Slide wheel and drive assembly to the right or left as required to line up hole in carrier with hole in countershaft, and replace and tighten bolts.

IMPORTANT: Be certain drive chain aligns properly with ratchet sprocket on countershaft. There should be light contact between ratchet sprocket and ratchet dog carrier. Be certain after moving wheel ratchet sprocket turns freely.

PREPARING AND ADJUSTING THE TRACTOR

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

Rear Wheel Tread

Set tractor wheel tread (center-to-center of tires) as nearly as possible twice the width of the row spacing. For example: for 40-inch (102 cm) row widths, set the tractor wheel tread at 80 inches (2 030 mm).

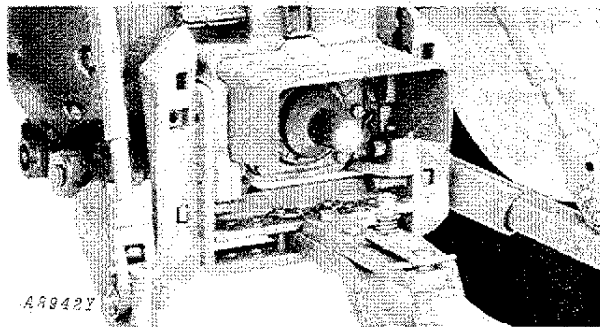
Front Wheel Tread

On wide front end tractors, set front wheels to conform to rear wheel setting.

Tire Inflation

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

Sway Blocks



Sway Blocks Installed to Eliminate Side Sway

Install sway blocks in the down and wide setting. This will prevent side sway when the toolbar is working and will also prevent side sway when the toolbar is being transported. See illustration above.

Setting the Rockshaft Selector Lever

Set the selector lever in Zero, "D" or "min" position, depending upon your model tractor.

Remote Cylinder Operating Lever

When planter is equipped with hydraulic mast, lever lock clip must be used on tractor console during field transport. See tractor operator's manual for instructions on installing lever lock clip.

Lift Links

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

Front Ballast Information

Tractor front end stability is necessary for safe and efficient operation. Therefore, it is important that the proper amount of weight be installed on the front of the tractor as recommended in your tractor operator's manual. For proper front end weighting, see the following implement code tables.

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.

IMPLEMENT CODES

Size of Planter	Basic Code*	Add for Insecticide and/or Herbicide Attachments	Add for Furrowers, V-Wing, Coulters, or Tine-Tooth Tillage Attachments
4-Row Wide			
(Integral - no lift-assist wheels)	128	37	8
(Semi-Integral - one lift-assist wheel)	97	24	5
6-Row Narrow			
(Integral - no lift-assist wheels)	171	56	11
(Semi-Integral - one lift-assist wheel)	125	36	7
6-Row Wide			
(Integral - no lift-assist wheels)	176	56	11
(Semi-Integral - two lift-assist wheels)	142	36	7
8-Row Narrow			
(Integral - no lift-assist wheels)	218	75	15
(Semi-Integral - two lift-assist wheels)	168	49	9
8-Row Wide			
(Integral - no lift-assist wheels)	231	75	10
(Semi-Integral - two lift-assist wheels)	177	49	10

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

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