

# 7000 MAX-EMERGE® 6-ROW WIDE, 8-ROW NARROW AND WIDE, AND 12-ROW NARROW DRAWN PLANTERS



JOHN DEERE

## OPERATORS MANUAL

7000 MAX-EMERGE® 6-ROW WIDE, 8-ROW  
NARROW AND WIDE, AND 12-ROW NARROW  
DRAWN PLANTERS

OMA45339 E2 English

JOHN DEERE PLOW & PLANTER WORKS  
OMA45339 E2

LITHO IN THE U.S.A.  
ENGLISH



## INTRODUCTION



**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.**

"Right-hand" and "left-hand" sides are determined by facing in the direction the planter will travel when being transported.

Record your planter serial number in the space provided on page 256. Your dealer needs this information to give you prompt, efficient service.

This operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

# 7000 DRAWN 6-ROW WIDE, 8-ROW NARROW, 8-ROW WIDE AND 12-ROW NARROW MAX-EMERGE PLANTERS

## TO THE DEALER

Predelivery service is the service John Deere recommends that a dealer perform on a planter before delivering it to a customer. This includes assembly, lubrication, adjustment and test. The service assures that the planter will be delivered in good condition to the customer and that the customer will be fully satisfied with its performance right from the start.

The John Deere Delivery Receipt, when properly filled out and signed by the dealer and customer verifies that the predelivery and delivery services were satisfactorily performed. When delivering this planter, give the customer a copy of the delivery receipt and the operator's manual. Explain their purpose.

Be certain to retain your copy of the **packing list** for shipping bundle information.

## PREDELIVERY CHECK LIST

After the planter has been completely assembled, inspect it to be sure it is in good running order before delivering it to the customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- Attach planting units and attachments desired by customer.
- Be sure all grease fittings are in place and lubricated.
- Run in planter and make sure all working parts are moving freely, bolts are tight, and cotter pins are spread.
- Inflate tires to 280 kPa (2.8 bar) (40 psi) of air pressure.
- Adjust planter to row width desired by customer.
- Paint all parts scratched in shipment.
- This planter has been thoroughly checked and to the best of my knowledge is ready for delivery to the customer.

\_\_\_\_\_  
(Date Set Up)

\_\_\_\_\_  
(Signature of Set-Up Person)

## OWNER REGISTER

Name \_\_\_\_\_

Post Office \_\_\_\_\_

County \_\_\_\_\_ State \_\_\_\_\_

Model \_\_\_\_\_

Serial No. \_\_\_\_\_

Date Sold \_\_\_\_\_

## DELIVERY CHECK LIST

At time planter is delivered, the following check list is a reminder of very important information which should be conveyed directly to the customer. Check off each item as it is fully explained to the customer.

- Because some fertilizers readily accumulate moisture and are quick to cause metal to corrode, advise the customer to thoroughly clean inside of fertilizer hoppers and spouts each day after using planter.
- Advise the customer that the life expectancy of this or any other machine is dependent on regular lubrication as directed in the operator's manual.
- Tell the customer about all the safety precautions that must be observed while using this planter.
- When the planter is transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to the operators of other vehicles. In this regard, tell customer to check local governmental regulations.
- Give the operator's manual to the customer and explain all operating adjustments.
- To the best of my knowledge this machine has been delivered ready for field use and customer has been fully informed as to proper care and operation.

\_\_\_\_\_  
(Date Delivered)

\_\_\_\_\_  
(Signature of Delivery Person)



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# Safety

2-3

## Operate the Planter Safely

If the planter must be in a raised position while working on or near it, be certain service locks are installed.

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

When using the auger fill attachment:

1. Keep all shields in place.
2. Disengage and shut off all engine and/or motor power before servicing or unclogging machine.
3. Keep hands, feet, and clothing away from power driven parts.

## Transport Safely

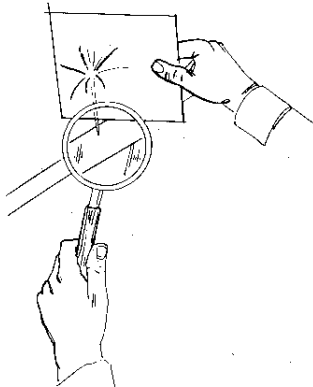
While transporting the planter on a public road, follow safety instructions outlined under "Transporting."

Use care when transporting across rough ground.

## Avoid High-Pressure Hydraulic Fluid

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and lines, pipes and hoses are not damaged. Use a piece of cardboard or wood, rather than hands, to search for leaks.

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



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## Lubricate the Planter Safely

Do not grease, oil or adjust the planter while it is in motion.

## Do Not Modify Planter

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

## Handle Chemicals Properly

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.

## Free Dry Fertilizer Augers Safely

Do not use welding torch to free frozen dry fertilizer augers from auger shaft.

Fertilizer trapped inside augers could cause gas to form, which when heated, may cause augers to explode.

## Mount Tires Safely

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

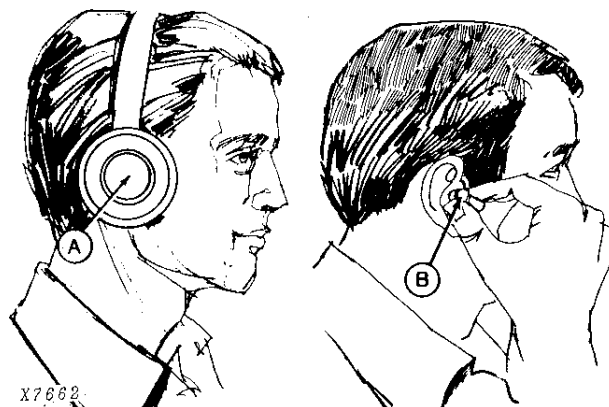
When sealing tire beads on rims, never exceed 35 psi or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead, and reinflate.

Detailed agricultural tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

## Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or ear plugs (B) to protect against objectionable or uncomfortable loud noises.



A—Earmuffs  
B—Ear Plugs

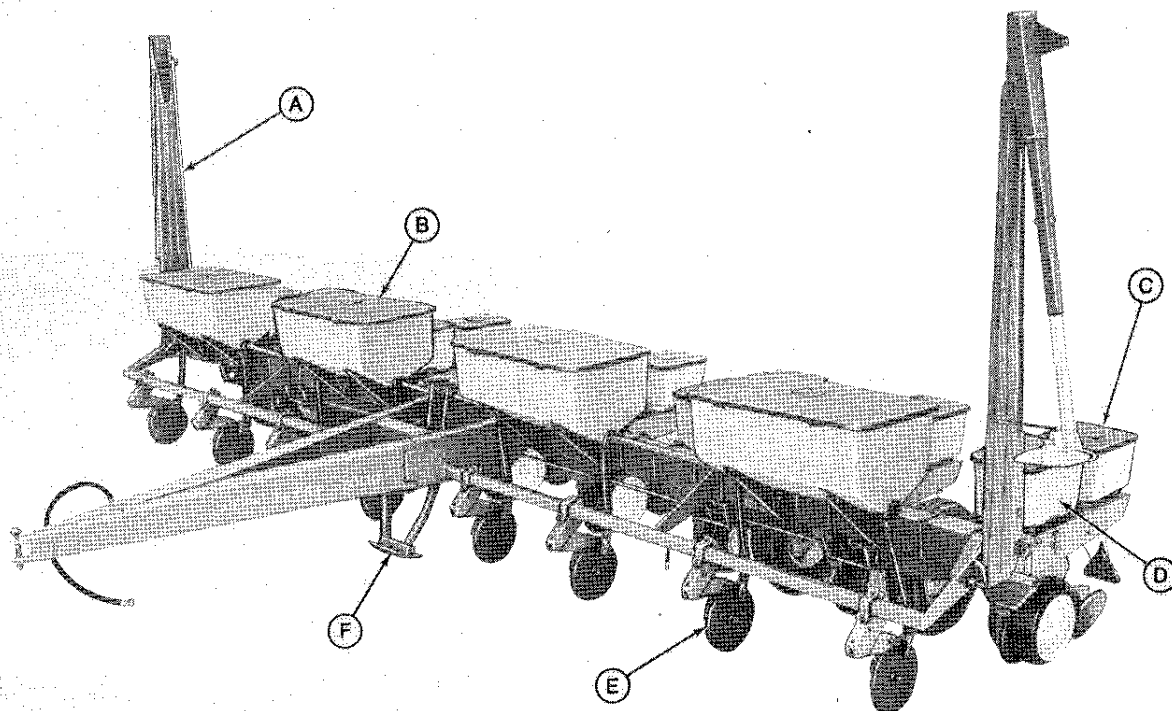
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# Identification Views

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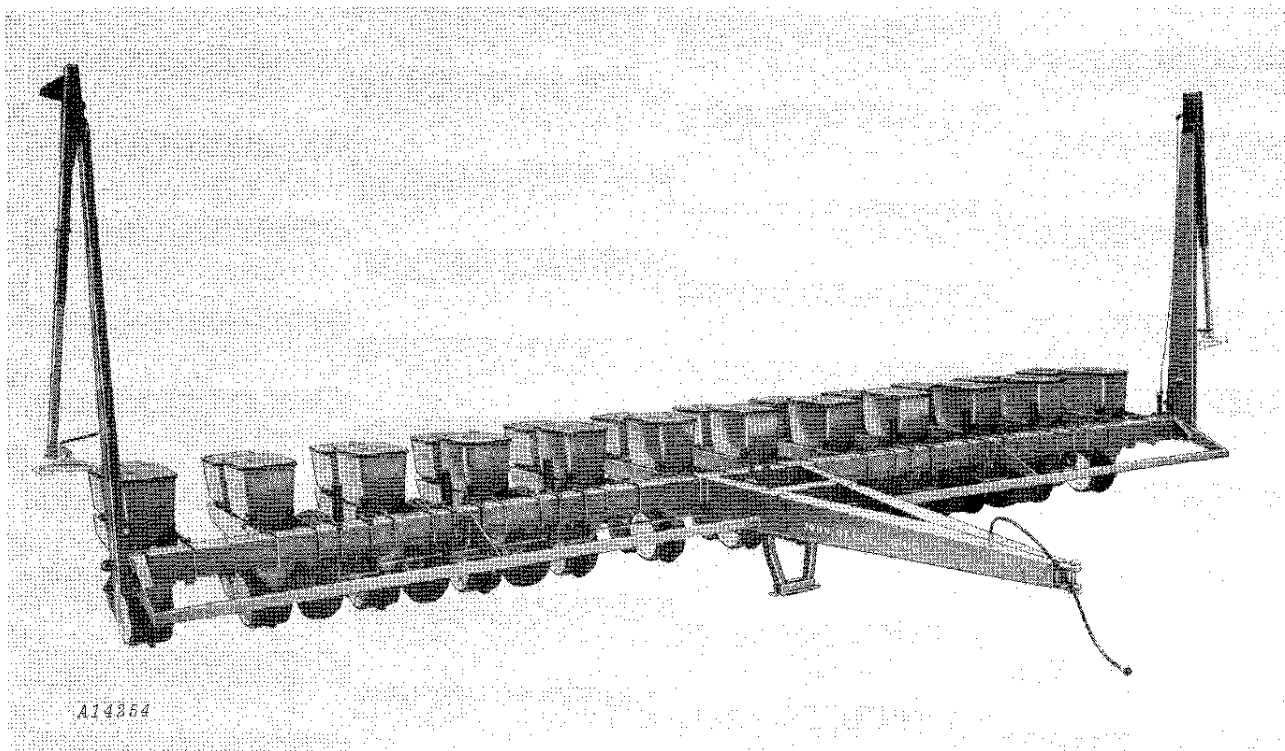
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A—Marker  
B—Dry Fertilizer Hopper

C—Insecticide and/or Herbicide Hopper  
D—Seed Hopper

E—Double-Disk Fertilizer Opener  
F—Parking Stand

*7000 Drawn Max-Emerge Planter 8-Row Wide with Dry Fertilizer Attachment*



4-5

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7000 Drawn Max-Emerge Planter 12-Row Narrow





# Preparing the Tractor

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## HYDRAULIC PRESSURE

**IMPORTANT:** The operating pressure of your tractor must be a minimum of 13 790 kPa (137.9 bar) (2000 psi) for the planter hydraulic system to function properly.

The maximum operating pressure for the planter hydraulic system is 15 513 kPa (155.1 bar) (2 250 psi). Exceeding this pressure is not recommended.

6-7

## TIRE INFLATION

Inflate the tractor tires as recommended in the tractor operator's manual.

## **ROCKSHAFT HEIGHT STOP LOCK (4040, 4240, 4440, 4640, 4840, 8440, 8640, 8450, 8650 and 8850 TRACTORS)**

If the tractor rockshaft is accidentally lowered with a Quik-Coupler hitch on the tractor, damage can occur to the planter hitch when turning the tractor.

To prevent accidentally lowering the rockshaft while operating the planter, install AR60331 rockshaft height stop. Installation instructions are provided with the stop.

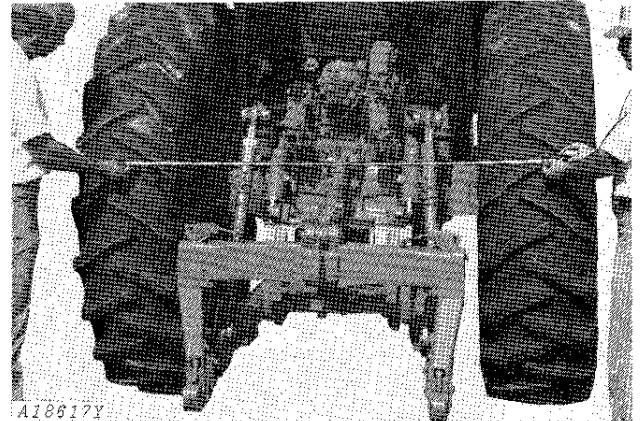
## TRACTOR DRAWBAR

Place the drawbar approximately 20 in. (510 mm) from the ground and secure in the center of the tractor.

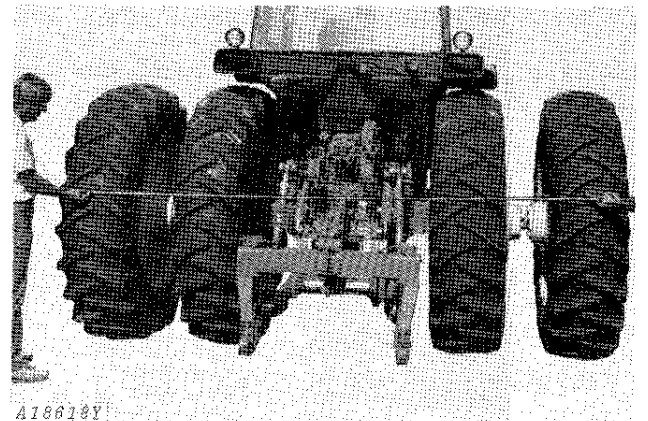
## SETTING WHEEL TREAD

Set two-wheel drive tractor tires (center to center of tread) at twice the row spacing. For two-wheel drive tractors with dual wheels, set outer wheels as close as possible to four times the row spacing. Set four-wheel drive tractor tires (center to center of tread) as close as possible to twice the row spacing.

*NOTE: Certain tire combinations may require Category 3N Quik-Coupler to obtain 60 in. (1 524 mm) wheel tread setting.*



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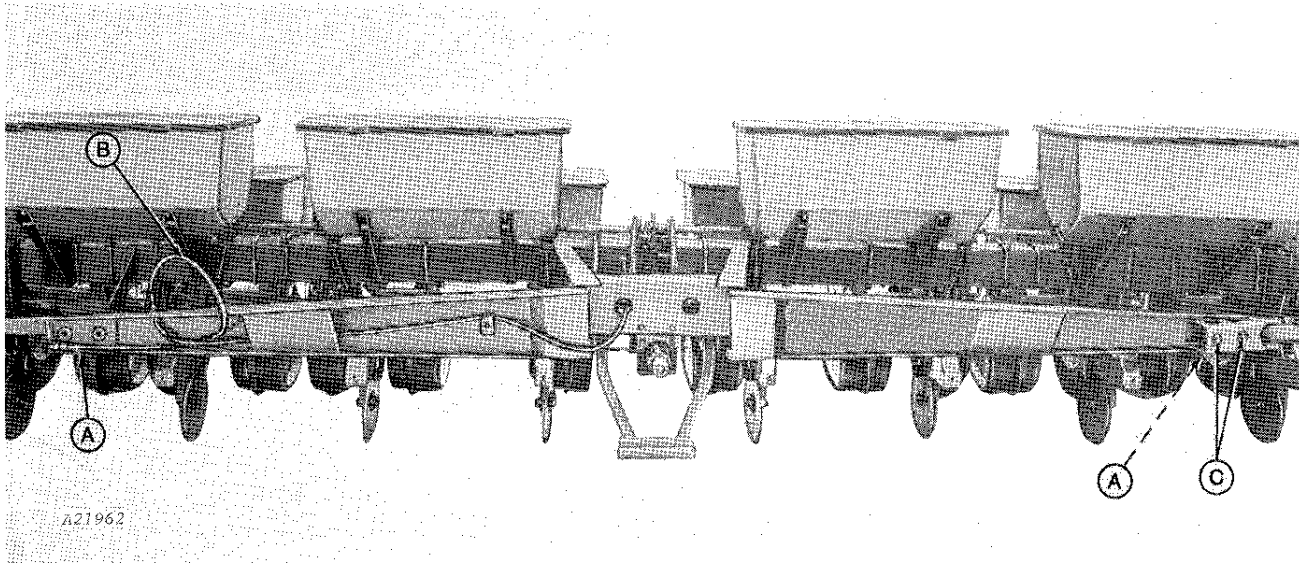


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# Preparing the Planter

## HITCH



8-17

A—Locking Strap

B—Tractor Remote Hydraulic Hose

C—Hitch Bolts

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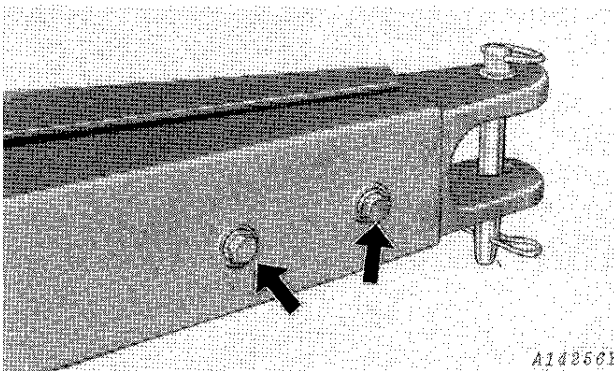
If planter has been stored with the hitch in the open position proceed as follows:

Remove locking straps from hitch.

Remove bolts from hitch clevis.

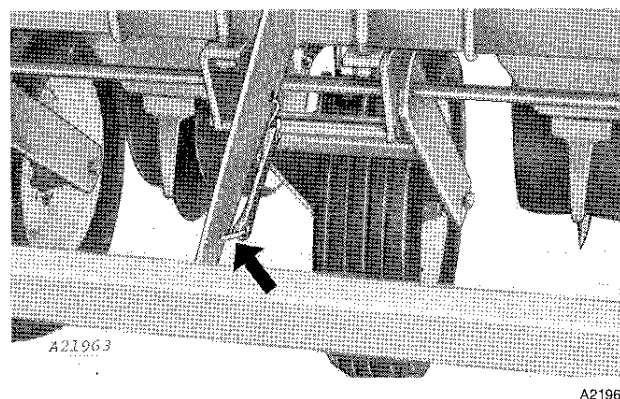
Remove tractor remote hydraulic hoses from between hitch.

Swing hitch halves closed. Be certain hitch halves are firmly seated with hitch clevis and secure with 5/8 x 2-1/4 in. bolts and washers (bold arrows). Torque bolts to 170 ft-lb (230 N-m).



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Place locking straps in storage position.



## TIRE INFLATION

Be sure 7.60 x 15 6 PR planter tires are inflated to 280 kPa (2.8 bar) (40 psi) of air pressure.

8-17

## LUBRICATION

Be sure your planter has been properly lubricated. Consult the lubrication charts on pages 81-86 for lubricating instructions.

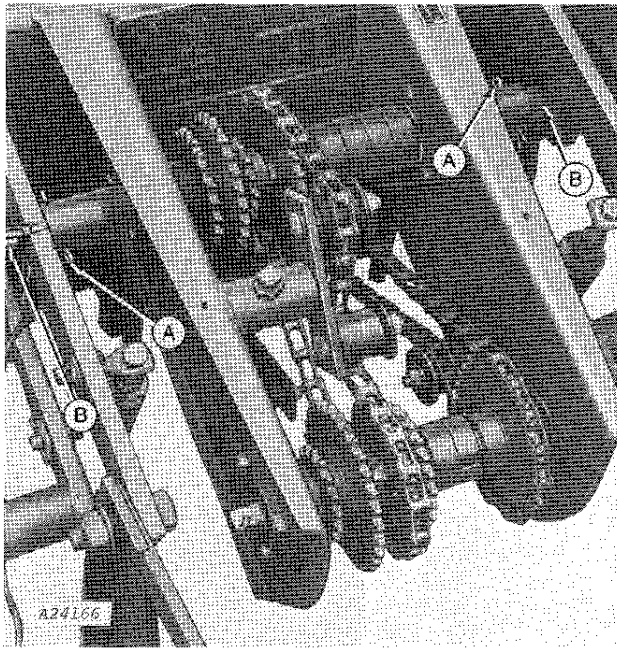
## ROW WIDTHS

6- and 8-Row Wide - 36 in. (91 cm), 38 in. (97 cm) and 40 in. (102 cm) row widths.

8- and 12-Row Narrow - 30 in. (76 cm) row width only.

To change row widths on the 6- and 8-Row Wide planter proceed as follows:

## 10 Preparing the Planter

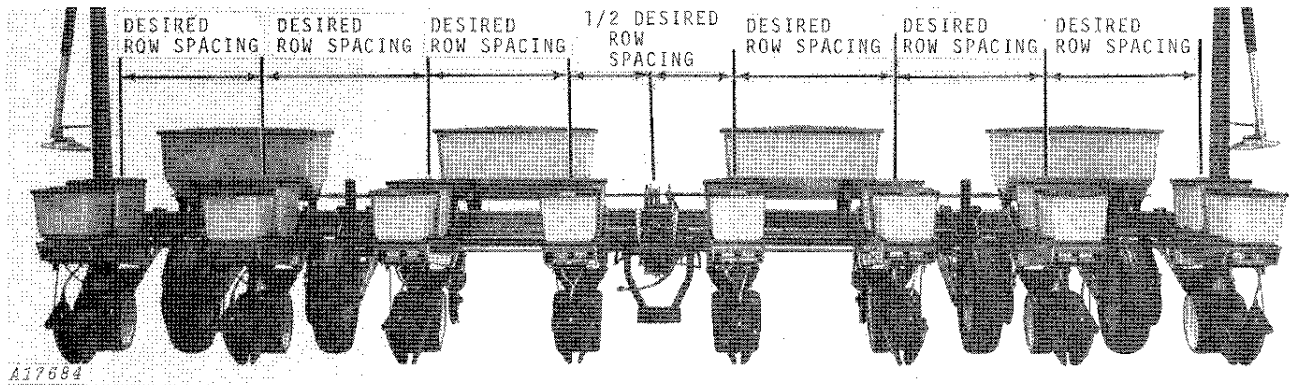


With the planter resting on the ground, remove cotter pins (A) from drivers and couplers and remove drill shafts (B).

8-17

A—Cotter Pins  
B—Drill Shaft

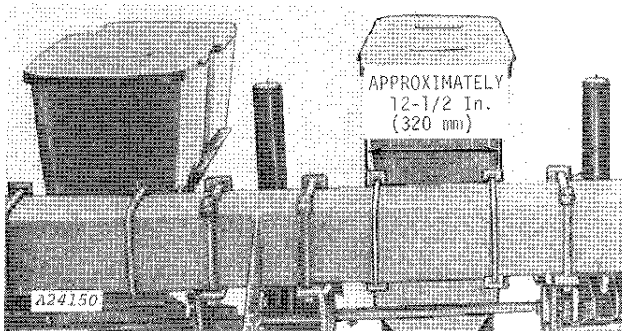
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8 Row Wide Planter Illustrated



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Loosen U-bolts, then move all planting units, starting with inside rows. Place one inside unit one-half the distance of the desired row width from the center of the planter frame to the center of the planting unit.

Place other units at the desired row width from this unit. Be certain unit mounting angles are vertical and spaced at approximately 12-1/2 in. (320 mm). Torque U-bolts, uniformly, to 105 ft-lb (142 N·m).

Insert drill shafts through bearings in planting units, drivers and couplers. Secure with cotter pins.

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

**NOTE:** (Wide Row Planters Only) If planting 36 or 40-in. (91 cm or 102 cm) rows, the wheel modules must be moved (see pages 12-13). To move wheel modules, proceed as follows:

Lower the planter on blocks approximately 36 in. (910 mm) high.

**CAUTION:** Support wheel modules with hoist, jack or wood block before removing wheel module bolts.

Remove wheel module bolts (D).

**CAUTION:** 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.

Remove hydraulic hose (C) from fitting and remove cap (F) from oil fitting on planter frame.

Remove bolt (I) from ratchet dog carrier and cotter pin (E) from drive shaft.

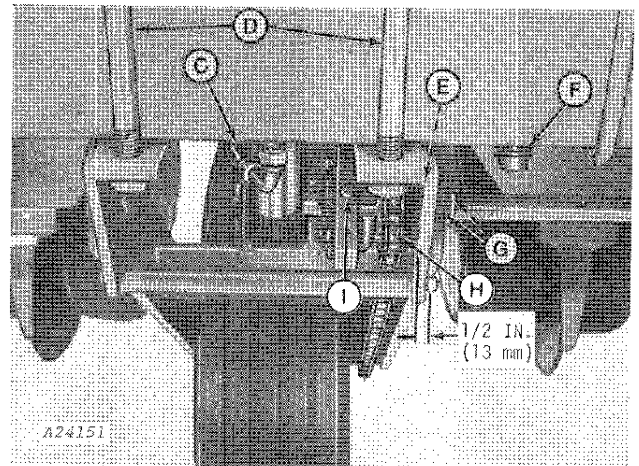
Remove set screws (G) from bearing and move wheels to desired row spacing.

**NOTE:** Use emery cloth to remove paint from drive shaft for ease in moving wheel modules.

After setting wheels to desired row spacing, secure wheel modules to frame with wheel module bolts. Insert cotter pin in drive shaft and insert bolt in ratchet dog carrier.

**IMPORTANT:** Be certain drive chain aligns properly with ratchet sprocket on counter-shaft. There should be 1/2 in. (13 mm) between inside of wheel frame support and edge of sprocket teeth (H). Loosen wheel module bolts and adjust as required.

Tighten set screws on bearing, connect hydraulic hose to fitting and install cap on oil fitting where hydraulic hose had been previously connected.



C—Hydraulic Hose	G—Set Screws
D—Wheel Module Bolts	H—Edge of Sprocket Teeth
E—Cotter Pin	I—Ratchet Dog Bolt
F—Cap	

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