

# John Deere 1290 Planter



## OPERATORS MANUAL

John Deere  
1290 Planter

OMB25563 H2    English

**OMB25563 H2**

LITHO IN U.S.A.  
ENGLISH





## To the Purchaser

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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 adjustments and 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 97. 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.



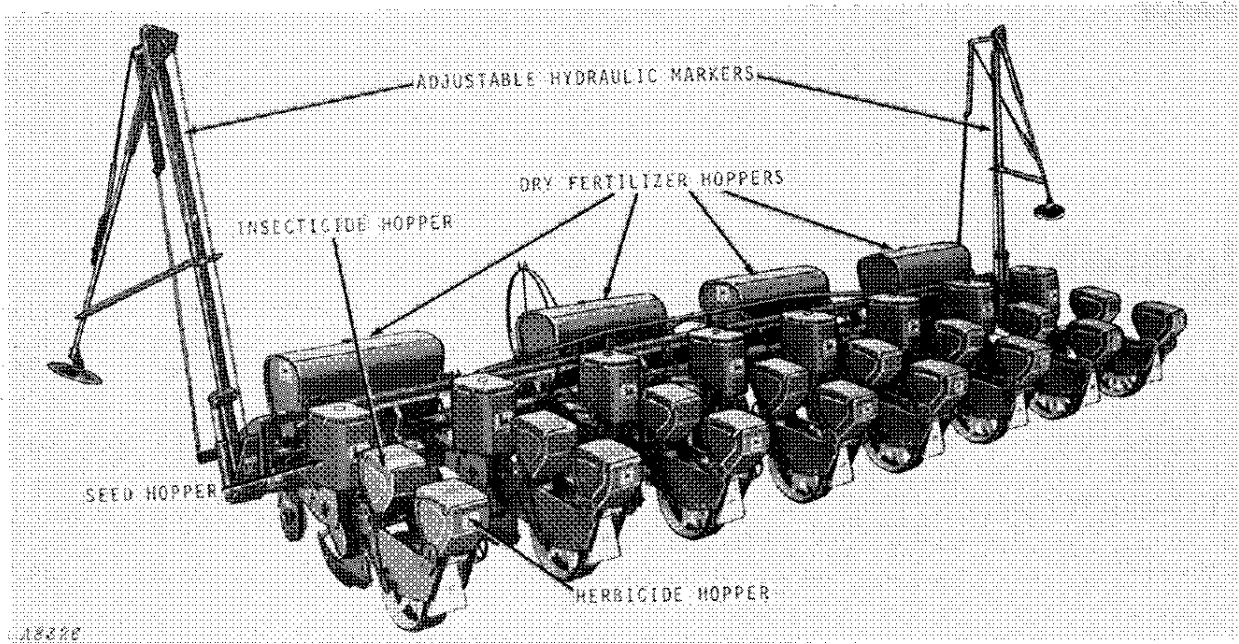
This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



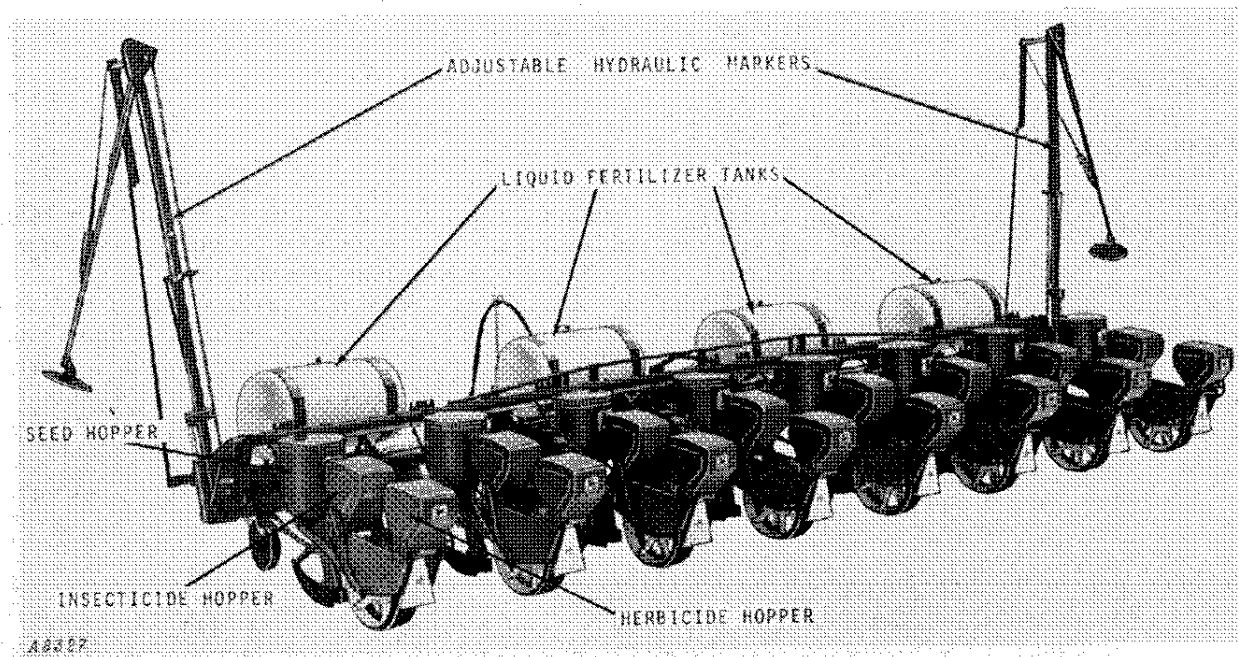
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1290 Plateless Planter with Dry Fertilizer, Insecticide and Herbicide Attachments



1290 Plate Planter with Liquid Fertilizer, Insecticide and Herbicide Attachments



# Operation

## PREPARING THE TRACTOR

The tractor must be equipped with an 8-inch stroke remote hydraulic cylinder that conforms to ASAE-SAE standards.

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 tractor rear wheels, center-to-center of tread an equal distance from center line of tractor, as follows:

Row Width	Tractor Rear Wheel Tread
36 Inches	72 Inches
38 Inches	76 Inches
40 Inches	80 Inches

If the tractor rear wheels cannot be set according to the chart, adjust them so the planter wheels run entirely out of the tractor wheel tracks.

## PREPARING THE PLANTER

### Lubrication

Consult the lubrication charts on pages 33, 34 and 35 for guidance in lubricating your planter.

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

### Tire Inflation

Inflate 7.50-18 traction-type tires to 24 psi of air pressure.

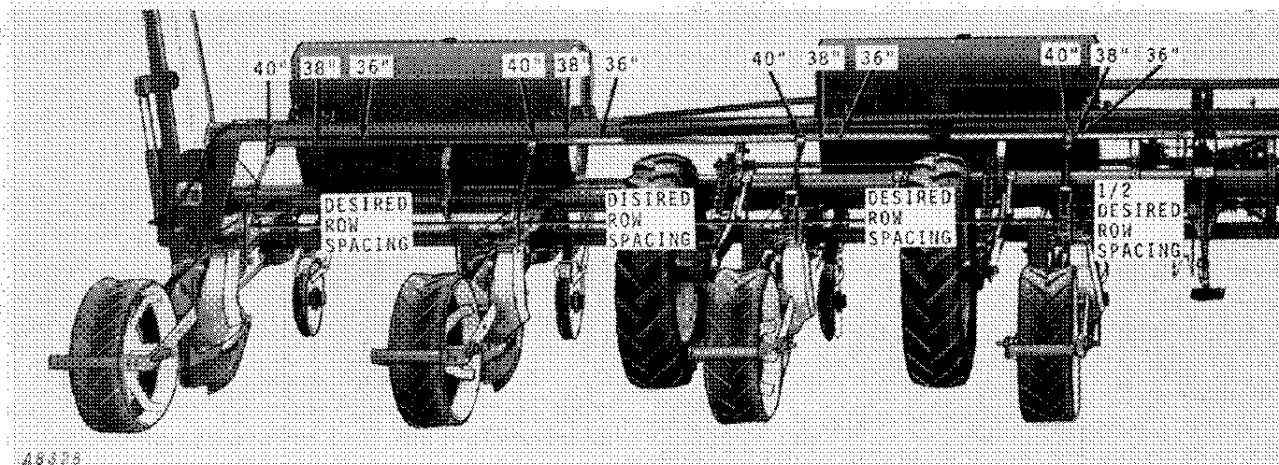
### Changing Row Widths

The 1290 Planter is available in 36-, 38-, and 40-inch row widths.

To change the row widths, proceed as follows: Lower the planter until the runners rest on the ground. Loosen the bolts in the sill bar brackets and detach the pressure rods from the main frame.

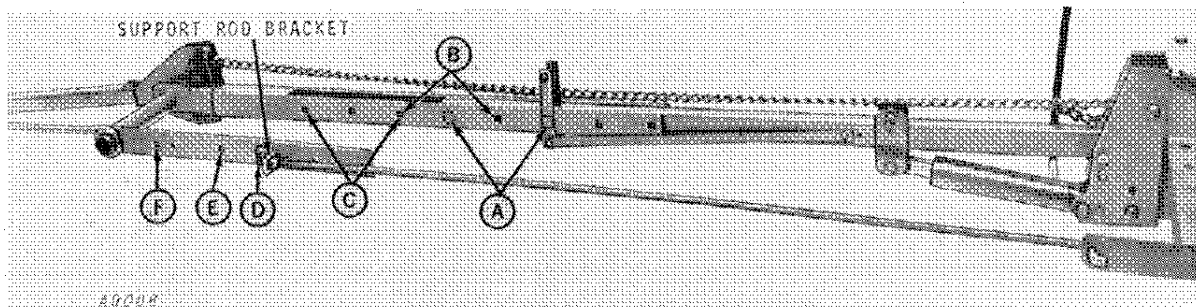
Select the desired row spacing and position the units as follows: Place each inside unit one-half the distance of the desired row width from the center of the planter frame to the center of the sill bar bracket. Center remaining units at desired row widths. Tighten all sill bar bracket bolts.

Attach pressure rods to planter frame in appropriate holes.

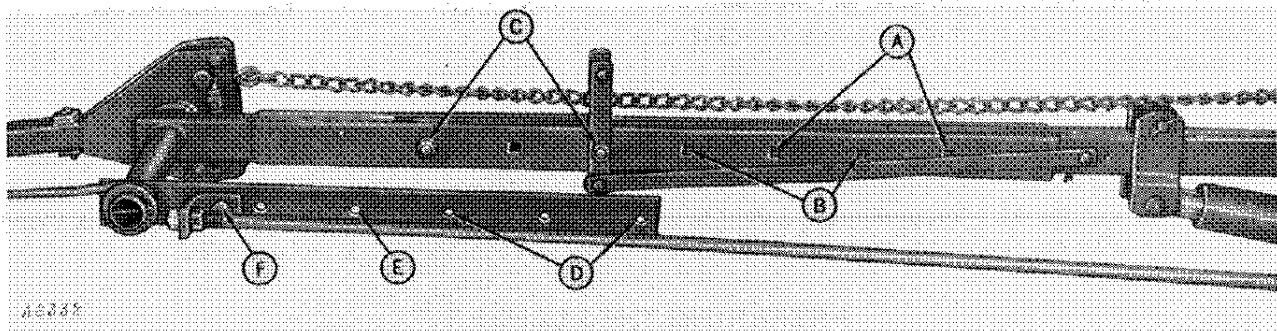


## 4 Operation

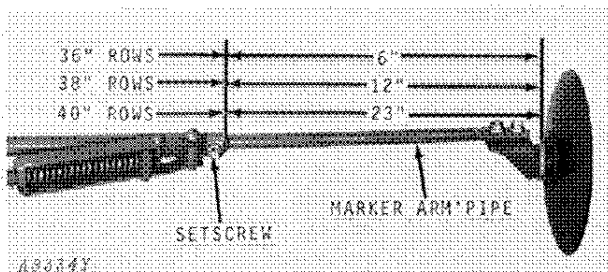
### Markers



Front View of R.H. Marker



Front View of R.H. Marker



The 1290 Planter is equipped with adjustable hydraulic markers. The markers may be set for 36-, 38-, or 40-inch row widths.

Adjust marker arm pipe for various row widths as shown.

The distance from the center of the planter to the disk marker should be 288 inches for 36-inch rows, 304 inches for 38-inch rows, or 320 inches for 40-inch rows.

Adjust marker as follows:

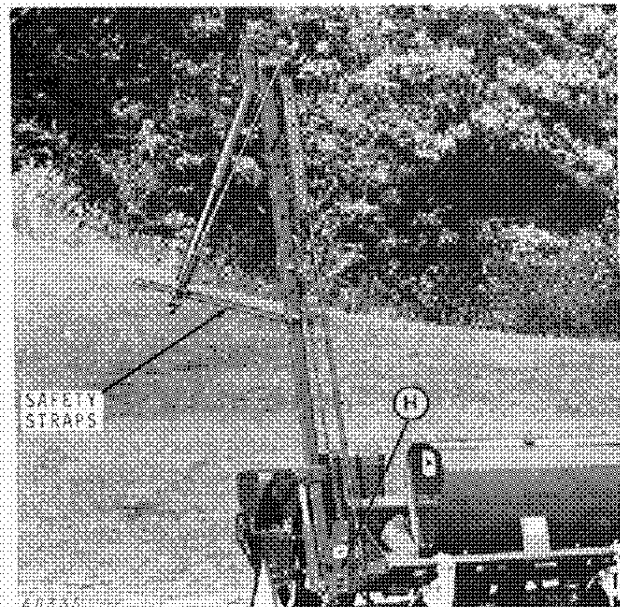
Locate marker tube by placing the 5/8-inch by 3-1/4-inch carriage bolts in holes "A" for 40-inch rows, in holes "B" for 38-inch rows, or in holes "C" for 36-inch rows.

Locate support rod bracket in hole "D" for 40-inch rows, in hole "E" for 38-inch rows, and hole "F" for 36-inch rows.

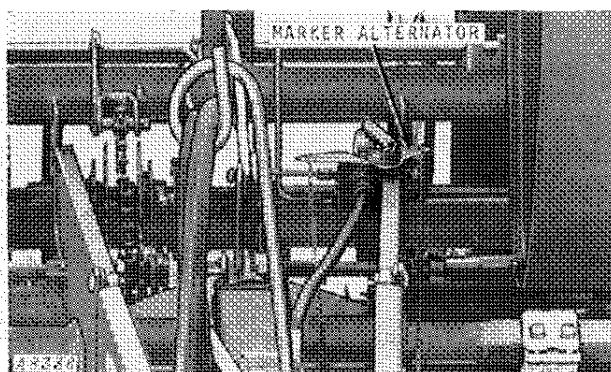
**NOTE:** On 36-inch rows only, install support rod bracket so the angle is toward end of marker as shown.

Be certain chain guides and safety straps are positioned as shown above for use while planting.

Store the transport pin in hole "G" while planting.



**CAUTION:** When transporting, raise marker, remove outer marker rod and disk, place transport pin in hole "H", and secure safety straps as shown.

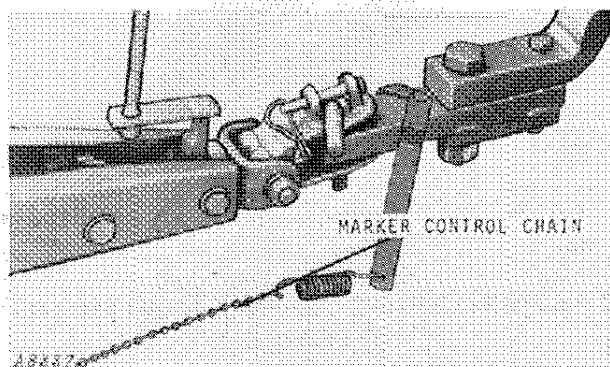


The markers are controlled by the marker alternator in the center of the planter.

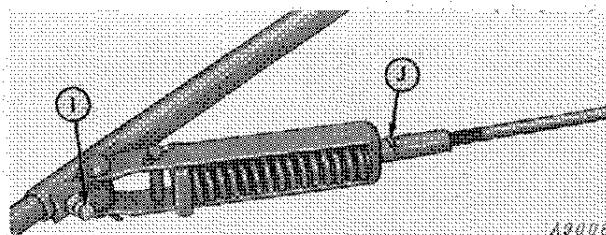
The direction of the lever on the marker alternator will determine which marker will drop.

When turning to the left the alternator is activated by the marker control chain permitting the right-hand marker to drop. When turning to the right, the left-hand marker will drop.

Markers raise only when planter is raised and lower only when planter is lowered.



If the right-hand marker will not drop after a sharp left turn, shorten the right-hand marker control chain at spring, one link at a time, until right-hand marker will drop after a sharp left turn. Shorten the left-hand marker control chain if left-hand marker fails to drop after a sharp right turn.

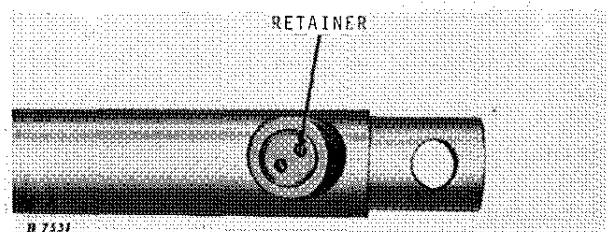


Adjust marker for desired row widths at "I". Refer to page 4.

When the marker hits an obstruction, cotter pin "J" will shear and allow marker to fold toward the rear, preventing the marker arm from bending.

*NOTE: Be sure open side of channel is positioned to rear of planter or marker breakaway will not work.*

#### Adjusting Marker Cylinder



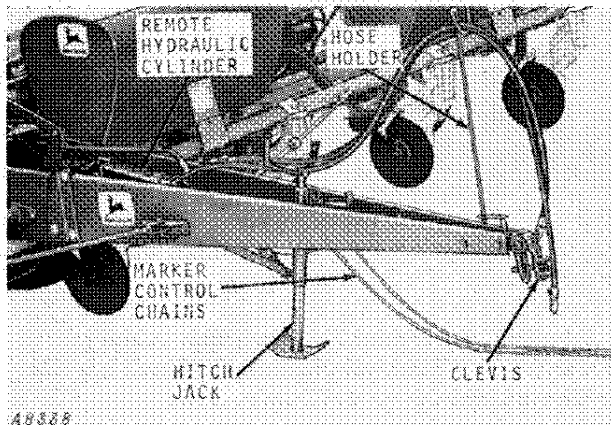
The marker cylinder can be adjusted to regulate the speed of drop.

Rotate the retainer one turn at a time until desired speed is achieved. Clockwise rotation reduces the lowering speed and counterclockwise rotation increases the lowering speed.

**IMPORTANT:** If the raising speed is one second or less, check for foreign material under the valve seat.

## 6 Operation

### Hitching Planter to Tractor



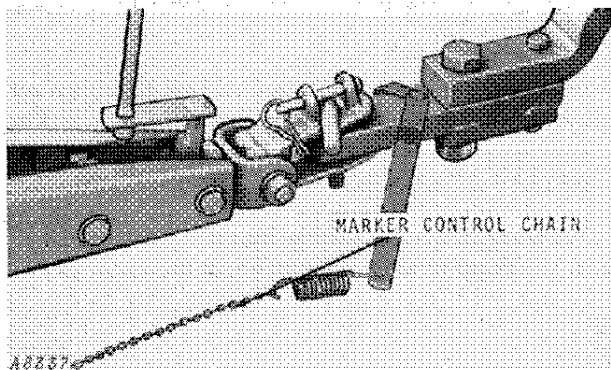
Put the planter hitch down into position and tighten the bolts.

Replace the truss rods.

Install the clevis and hose holder in the planter hitch.

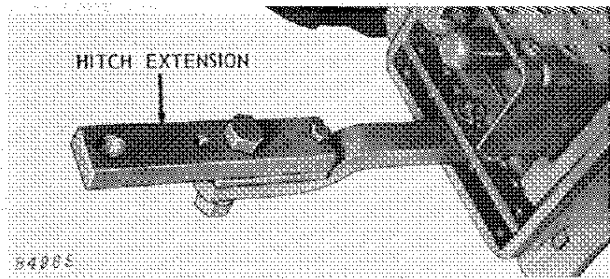
Connect the planter hitch to the tractor drawbar.

Install the remote hydraulic cylinder. See page 94. Place the hydraulic hoses in the hose holder.



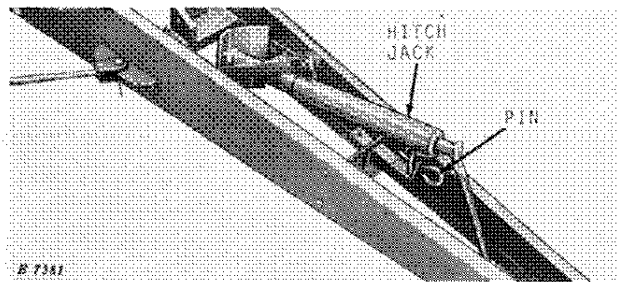
Bolt the marker control chain arms to the tractor drawbar. Tighten the bolt securely as marker control chain must be held rigidly to the tractor drawbar.

If the right-hand marker will not drop after a sharp turn, shorten the right-hand marker control chain at spring, one link at a time, until right-hand marker will drop after a sharp left turn. Shorten the left-hand marker control chain if left-hand marker fails to drop after a sharp right turn.



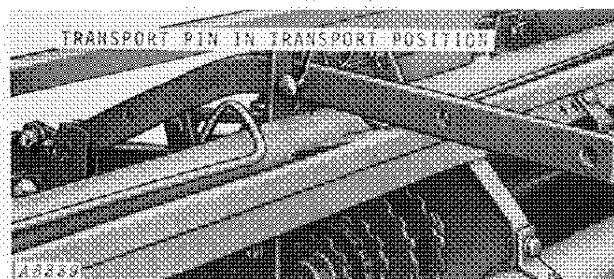
If a hitch extension is used, connect the planter hitch to the hitch extension shown above. Various drawbar heights may be obtained by using the hitch extension in different combinations with the drawbar. The hitch extension may be used as shown, turned over, under the drawbar in position shown, turned over under the drawbar, or any of the above combinations with the tractor drawbar turned over.

Extend the remote hydraulic cylinder and set stop so the cylinder will retract all the way. This will permit the planter press wheel to always gauge the planting depth.



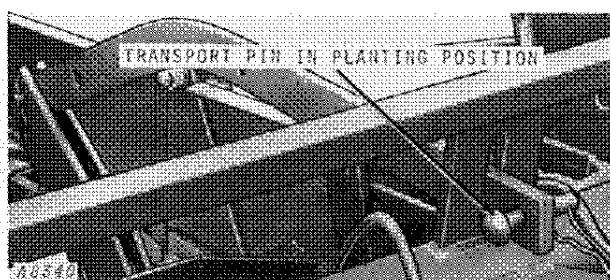
Fold up the hitch jack and pin it to the transport bracket.

### TRANSPORTING PLANTER WITHOUT CARRIER



Extend remote hydraulic cylinder and insert pin in transport position of transport link. See page 4 for correct position of markers when transporting.





**CAUTION:** Escaping fluid under pressure can have sufficient force to penetrate the skin,

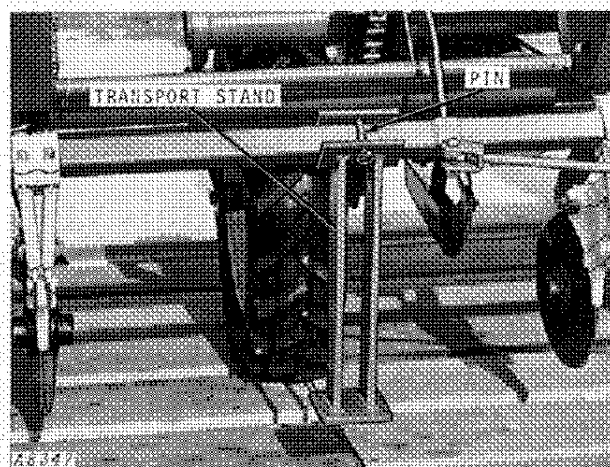
### TRANSPORTING THE PLANTER ON THE MODEL 101 FARM IMPLEMENT CARRIER

The Model 101 Farm Implement Carrier is available for transporting the 1290 Planter. For complete assembly and operation instructions on the carrier, see the carrier operator's manual.

To load the 1290 Planter onto the 101 Farm Implement Carrier, proceed as follows:

After the carrier deck has been lowered to the ground, hitch the planter to the tractor. (See page 6.)

Drive planter onto implement carrier.

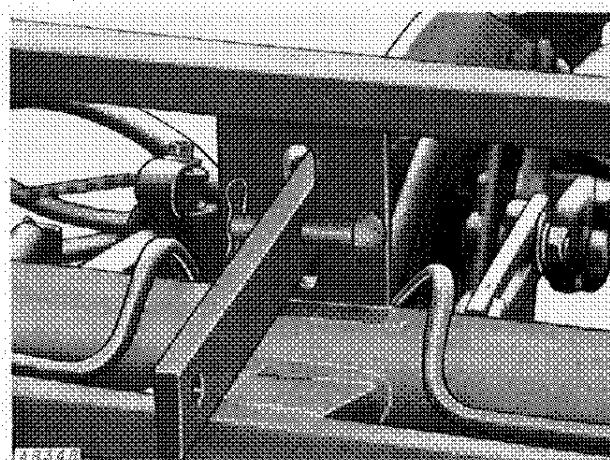


Attach transport stands to fertilizer bar just ahead of the outer carrying wheels.

Secure with pin and quik-lock pin.

causing serious personal injury. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid 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 fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



Position pin in transport link in hole shown.

**CAUTION:** Escaping fluid 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. Fluid 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 fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

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