



1250 PLANTER



OPERATORS MANUAL 1250 PLANTER

OMA22852 B3 English

PLOW & PLANTER WORKS
OMA22852 B3

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 special equipment 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 91. 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.

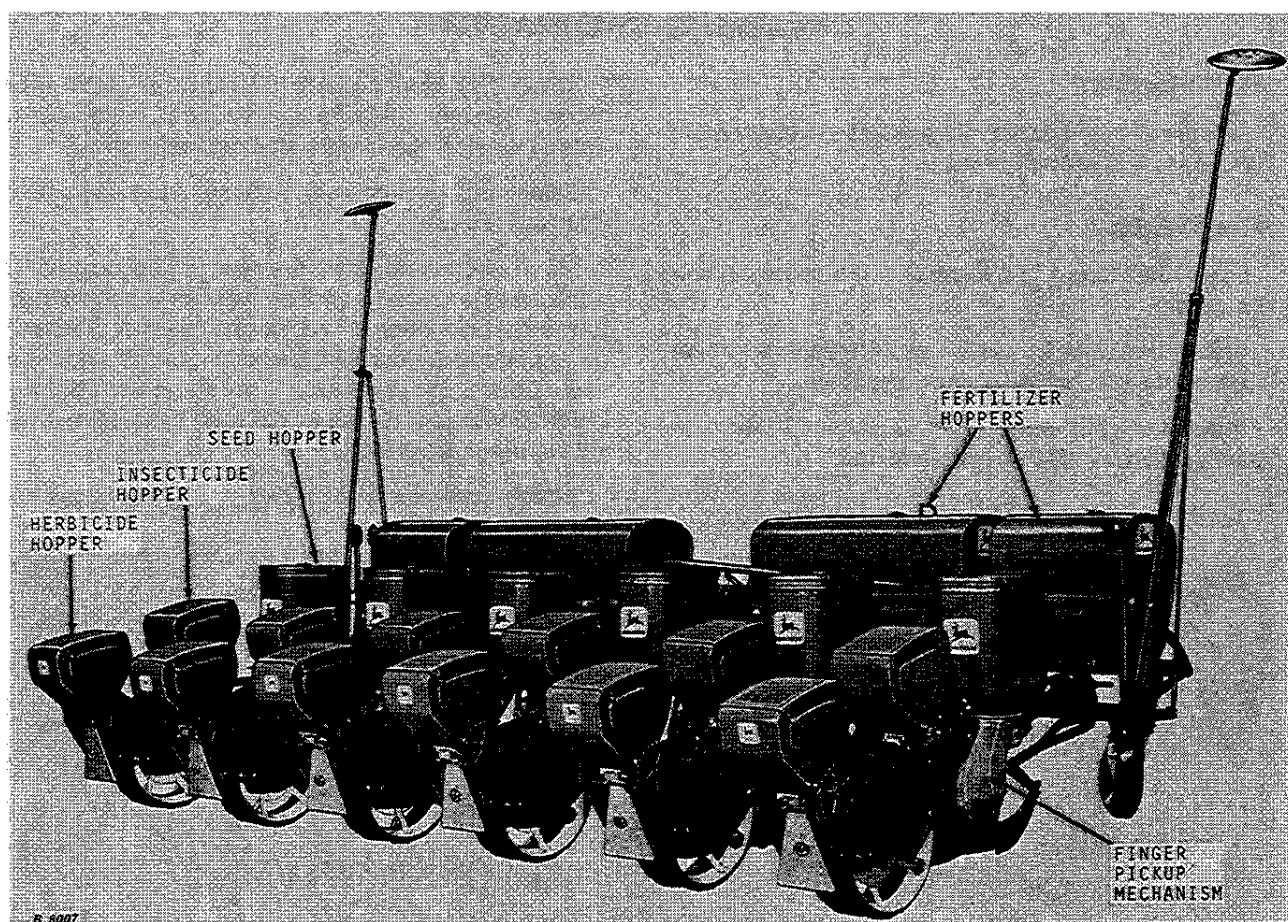


This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.



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John Deere 1250 Planter with Plateless Units



Operation

PREPARING THE TRACTOR

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

IMPORTANT: Adjust the metering valve arm on the tractor selective control valve so the planter will not raise to the desired height in less than 2 seconds. Failure to do so may result in damage to the planter.

On tractors with an adjustable drawbar, place drawbar approximately 15 inches from the ground and bolt it in the center of the tractor.

If possible, set the tractor rear wheels 80-1/2 inches, center-to-center of tread and equal distance from the center line of tractor. The planter ground wheels will then run in the center of the tracks left by the rear wheels of the tractor. If this cannot be done, it is necessary to adjust the tractor rear wheels so the planter wheels run entirely out of the tractor wheel tracks.

PREPARING THE PLANTER

Tire Inflation

Be sure 6.70-15 traction-type tires on planter are inflated to 24 psi of air pressure.

Row Widths

The 1250 Planter is available in the following row spacings:

Plate-Type Units - four 38- and 40-inch row spacings and six 28- and 30-inch row spacings.

Plateless-Type Units - four 38- and 40-inch row spacings and six 30-inch row spacings.

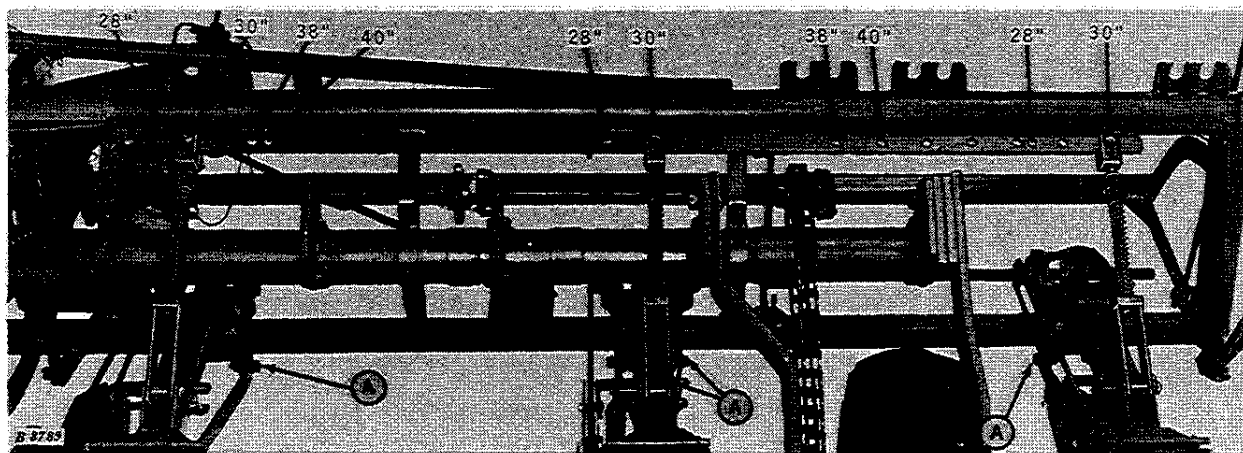
To change the row widths, proceed as follows:

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 one inside unit one-half the distance of desired row width from the center of the planter frame to the center of the sill bar bracket. Place other units at the desired row width or multiples of row width from this unit. Tighten bottom sill bar bracket bolts first as shown at "A." Then tighten the sill bar bracket bolts.

Attach pressure rods to planter frame in appropriate holes.

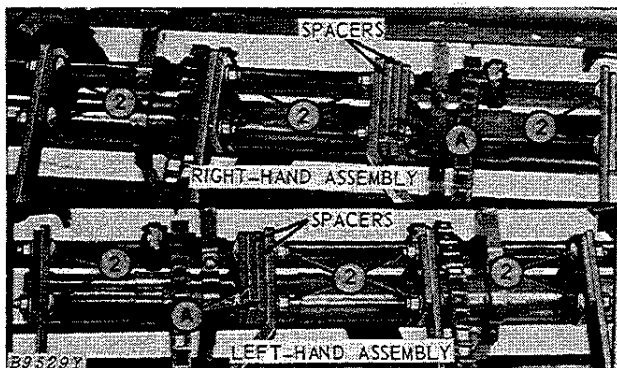
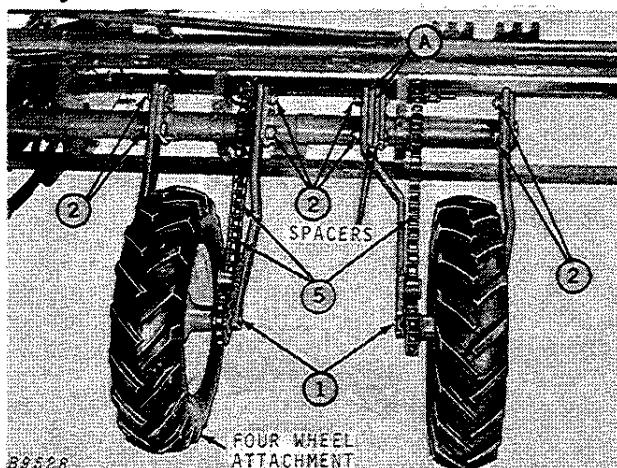


Lubrication

Be sure your planter has been properly lubricated. 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 planter and save on your maintenance costs.

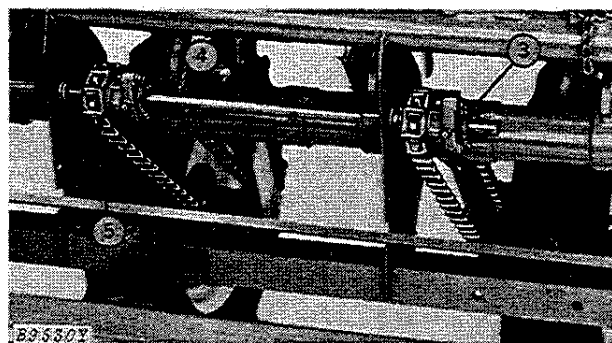
28-Inch Row Spacing Application - Plate Only



1. Install the complete wheel assemblies in wheel frame brackets and secure in place with axle bolt.

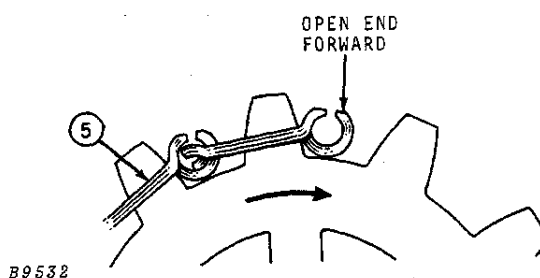
2. Bolt wheel frame brackets to wheel frame.

NOTE: Install spacers at "A."



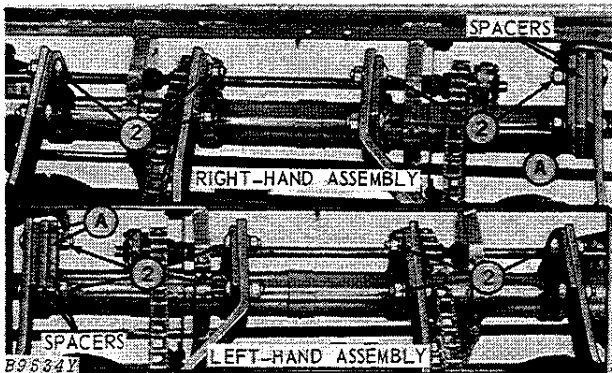
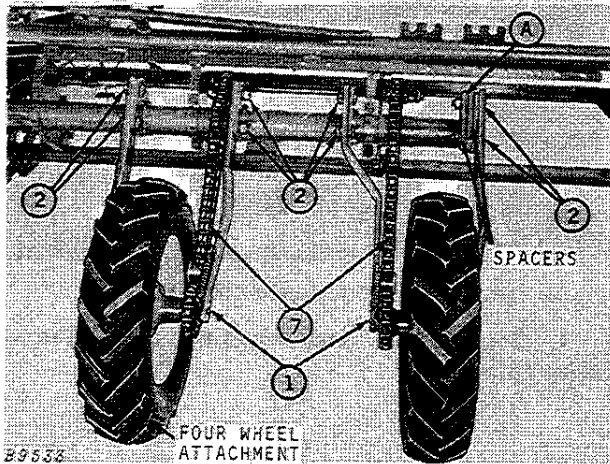
3. Install ratchet drive assembly.

4. (Four Wheel Attachment Only) Install ratchet drive assembly.



5. Install the drive chain. Be sure the open ends of the links run in the direction of travel. Tighten the chain idler.

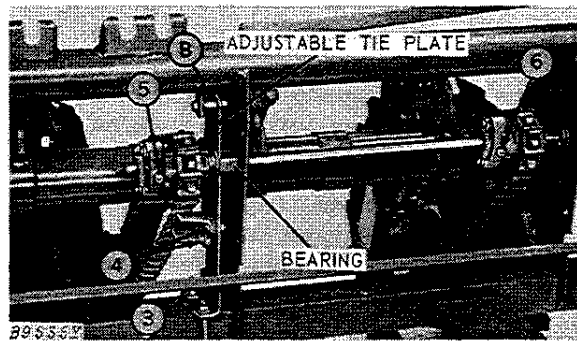
28-Inch Row Spacing 71 Flexi-Planter Application Only



1. Install the complete wheel assemblies in wheel frame brackets and secure in place with axle bolts.

2. Bolt wheel frame brackets to wheel frame.

NOTE: Install spacers at "A."



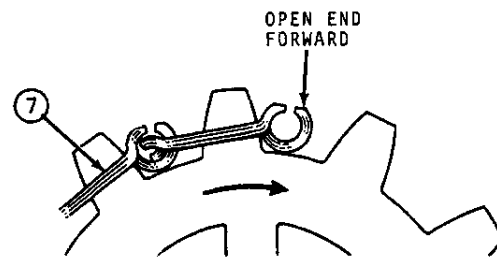
3. Install adjustable tie plate on main frame.

NOTE: Install spacer at "B." Position bearing shown.

4. Install chain guide on adjustable tie plate.

5. Install ratchet drive assembly.

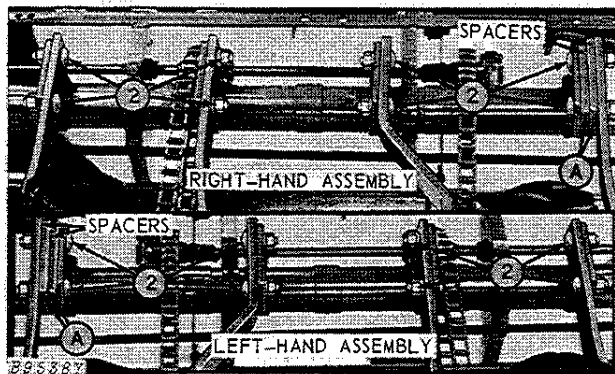
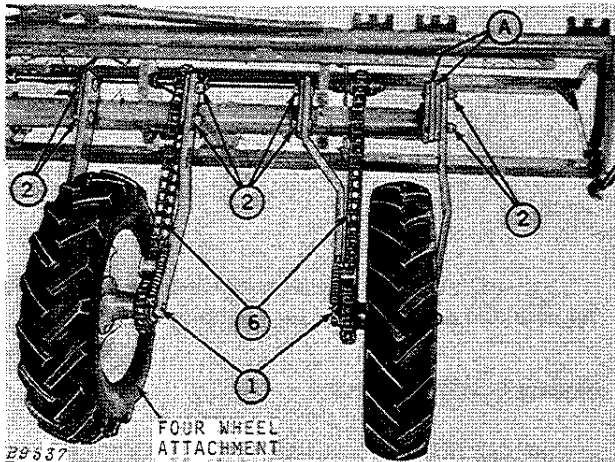
6. (Four Wheel Attachment Only) Install ratchet drive assembly.



B 7955

7. Install drive chain. Be sure open ends of chain links run in direction of travel. Tighten chain idler.

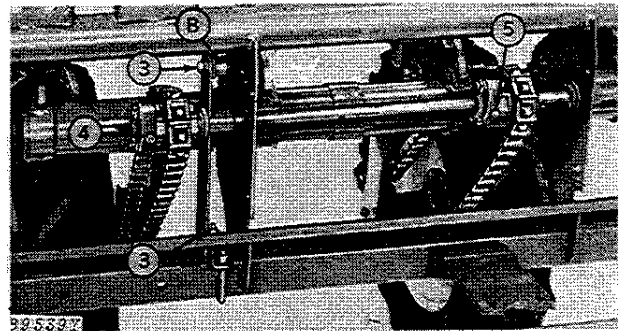
30-Inch Row Spacing Application - Plate and Plateless Only



1. Install the complete wheel assemblies in wheel frame brackets and secure in place with axle bolts.

2. Bolt wheel frame brackets to wheel frame.

NOTE: Install spacers at "A."

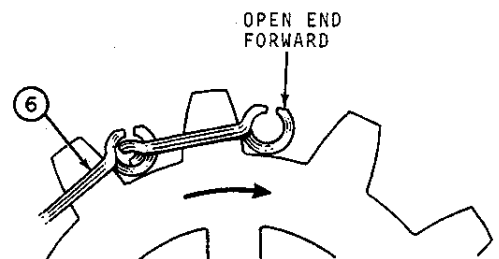


3. Install adjustable tie plate on main frame.

NOTE: Install spacer at "B."

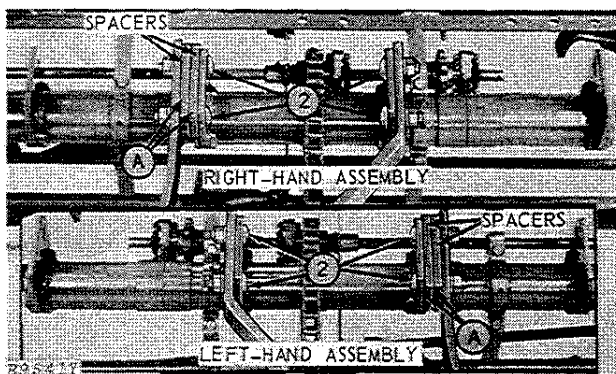
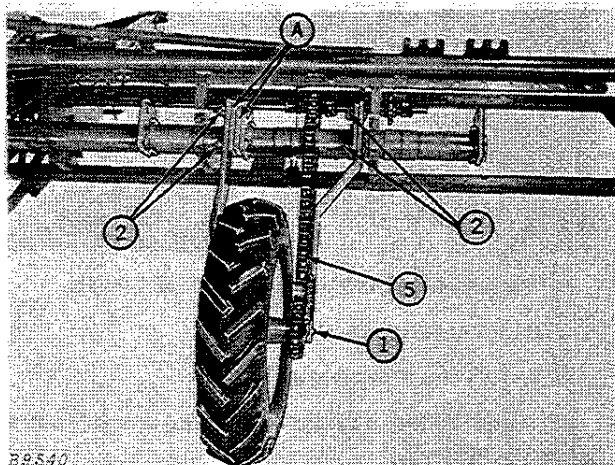
4. Install ratchet drive assembly.

5. (Four Wheel Attachment Only) Install ratchet drive assembly.



6. Install drive chain. Be sure open ends of chain links run in direction of travel. Tighten chain idler.

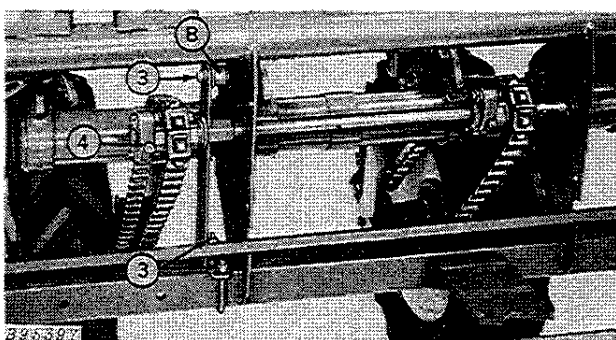
38- and 40-Inch Row Spacing Application Plate, Plateless, and 71 Flexi-Planter



1. Install the complete wheel assemblies in wheel frame brackets and secure in place with axle bolts.

2. Bolt wheel frame brackets to wheel frame.

NOTE: Install spacers at "A."

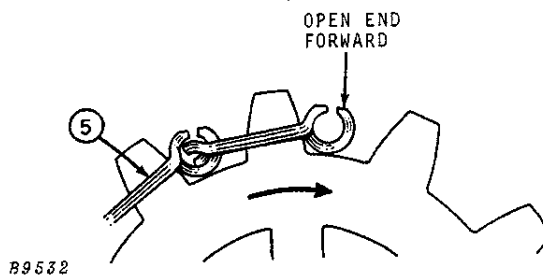


3. Install adjustable tie plate on main frame.

NOTE: Install spacer at "B."

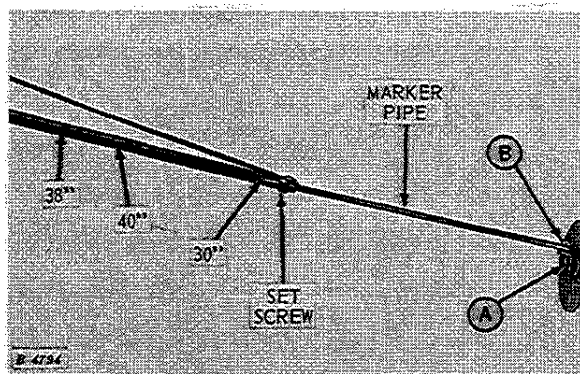
Four Wheel Attachment cannot be used in 38- and 40-inch row spacing application.

4. Install ratchet drive assembly as shown.



5. Install drive chain. Be sure open ends of chain links run in direction of travel. Tighten chain idler.

Marker Adjustment

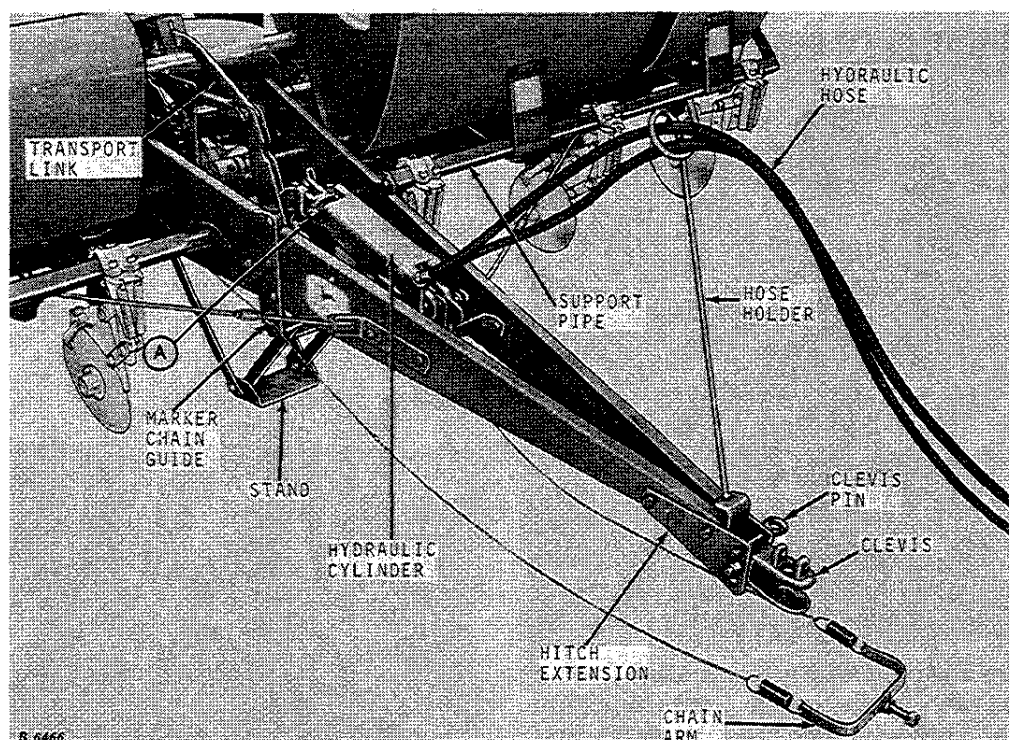


The markers are adjustable for 30-inch, 38-inch or 40-inch row widths

The marker illustrated is set for 30-inch row width. To change the markers to 40-inch row widths, loosen the setscrews so marker pipes will slide. Set the inside end of each marker pipe to line up with the center of the hole in the marker arm, for desired row width. Turn each marker pipe so bracket "A" is in position illustrated. Tighten the setscrews securely hold markers in position. The angle of each marker disk may be adjusted for various soil conditions by loosening bolt "B" and turning the disk. After adjustment is made tighten bolt "B" securely.

When the 1250 Planter is used to plant six 28-inch rows with plate-type units, position markers 16 inches from center of planter main frame to each marker disk.

HITCHING

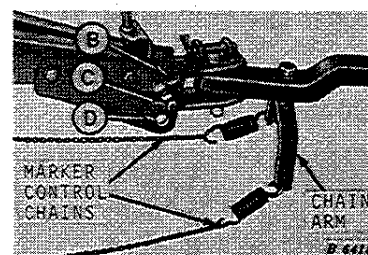


With the planter resting on the stand, back the tractor to the planter so the planter hitch is straight in line with the tractor drawbar. Install the remote hydraulic cylinder on the planter and set stop "A," as illustrated, so the cylinder will retract all the way. This will permit the planter press wheels to gauge the planting depth. Install the hydraulic hose in the hose holder. Extend the cylinder and disconnect the transport links from the transport lug.

Remove the clevis pin from the clevis and place it in the hitch extension holes, as illustrated, to hold the clevis straight out. If the clevis is installed in the upper holes, place clevis pin in the lower hitch extension holes.

Place the marker control chains over the fertilizer drive if used, under the support pipes and through the chain guides. Attach the marker control chains to the springs and chain arm.

Retract the hydraulic cylinder until the planter hitch is the same height as the tractor drawbar. Attach the clevis to the tractor drawbar with the clevis pin and secure in place with the retaining pin as shown. Extend the hydraulic cylinder to raise the planter off the stand.

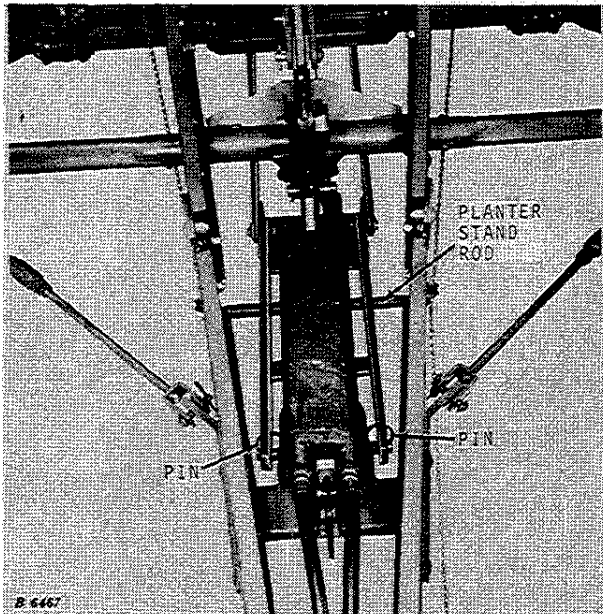


Attach the chain arm at right angles to the tractor drawbar. Tighten the bolt securely as the marker chain arm must be held rigidly to the tractor drawbar.

Set the clevis in holes "B," "C," or "D," so the lower edge of the planter hitch is parallel to the ground when in planting position.

NOTE: Retighten all bolts in hitch panel after planting approximately five acres.

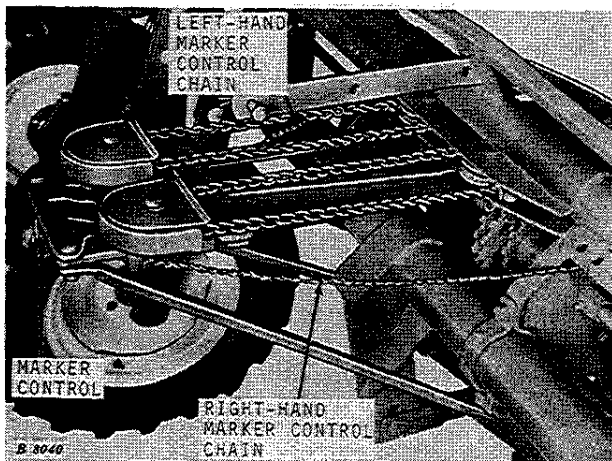
HITCHING - Continued



Pull the pins and push the planter stand up over the planter stand hitch rod. Hook the front legs of the stand over the rod on the hydraulic cylinder bracket. Hold the planter stand in place with the pins.

To place the planter stand back into position for unhooking from planter, reverse the above procedure.

Marker Control Chains



Pull the left-hand marker control chain until marker control lever points to right-hand side of planter, as illustrated.

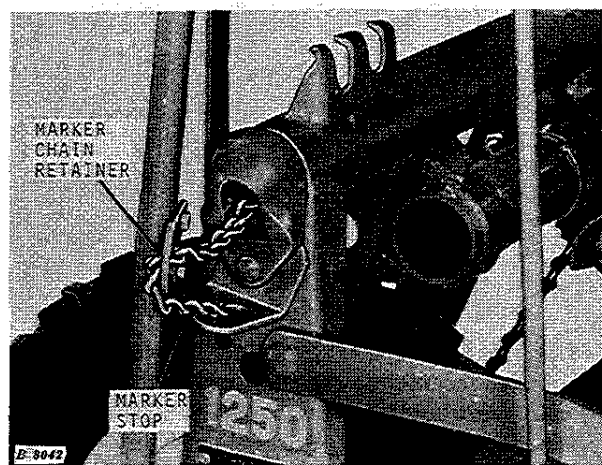
Attach the spring to chain arm, and hook the right hand marker control chain to spring at the shortest link possible, without stretching the spring.

Now pull the right-hand marker control chain until the marker control lever points to left-hand side planter.

Attach the spring to chain arm, and hook the left hand marker control chain to spring at the shortest link possible, without stretching the spring.

NOTE: Be certain all parts of marker assembly move freely.

Marker Lift Chains



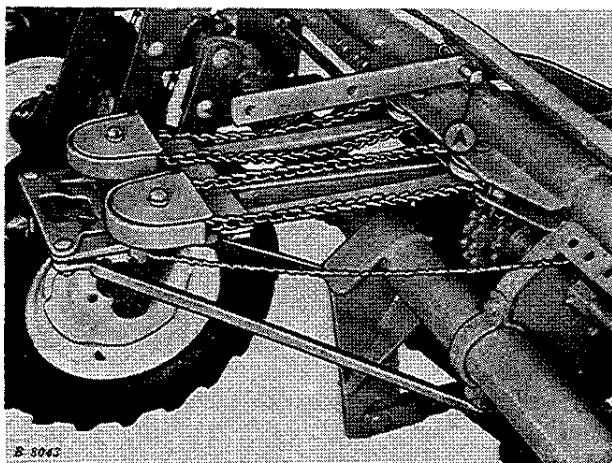
With the remote hydraulic cylinder extended to maximum length, pull marker lift chains tight at each end of planter and adjust each lift chain in the marker chain retainer so marker arm is snug against the marker stop.

Place the loose end of each marker chain in the marker stop.



CAUTION: Keep the loose end of each marker chain in the marker stop at all times, except when planting, to prevent marker from falling.

TRANSPORTING

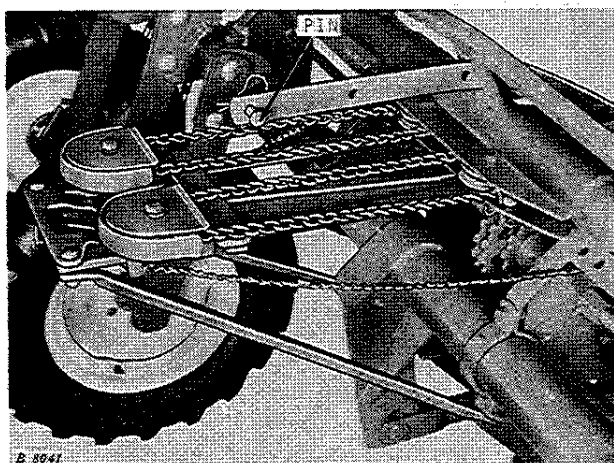


Extend the remote hydraulic cylinder and insert the pin in hole "A" as shown.

Empty all hoppers when transporting the 1250 Planter for any great distance.

NOTE: Be sure to place the selector gate on the plateless planting unit seed hopper in the "OFF" position before transporting planter.

CAUTION: 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.



After reaching the field, extend the remote hydraulic cylinder and place the pin as illustrated.

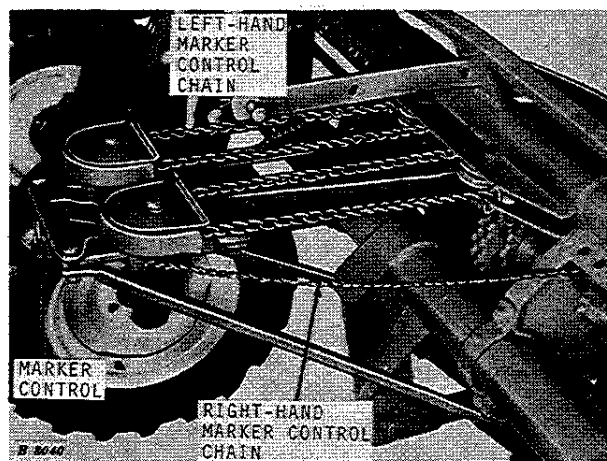
MARKERS

Remove the end of each marker chain from the

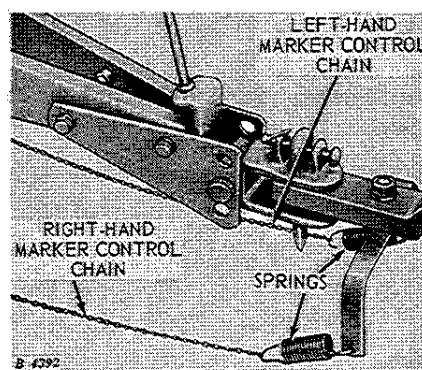
marker stops before lowering the planter in the field.

NOTE: When planting the rows next to the fence, hold the markers up by inserting the marker chains in the marker stops. When markers are latched up, chains will be slack. When raising planter, be very careful that slack chain does not catch and break.

The position of the marker control lever will determine which marker will drop when the planter is lowered.

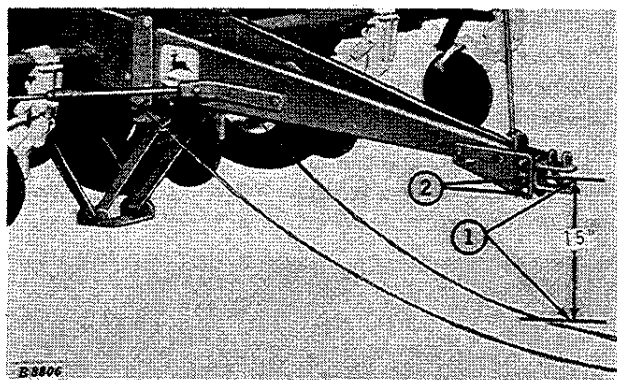


When the marker control arm points to the right-hand side of the planter, as illustrated, the left-hand marker will drop. The marker control arm will stay in this position, and the left-hand marker will raise and drop when planter is raised and lowered until the tractor is turned sharply to the left. Then the right-hand marker control chain will tighten and point the marker control arm toward the left-hand side of the planter and the right-hand marker will drop when the planter is lowered. The marker that is down will automatically raise when the planter is raised.



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

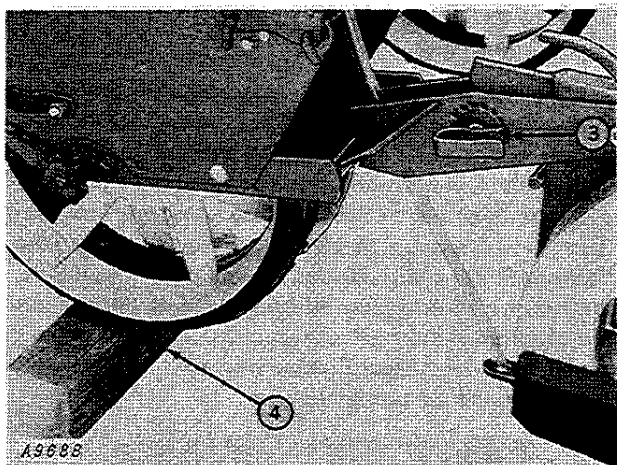
LEVELING PLANTER FRAME AND UNITS



1. Position planter clevis 15 inches from ground to center of clevis when planter is lowered.

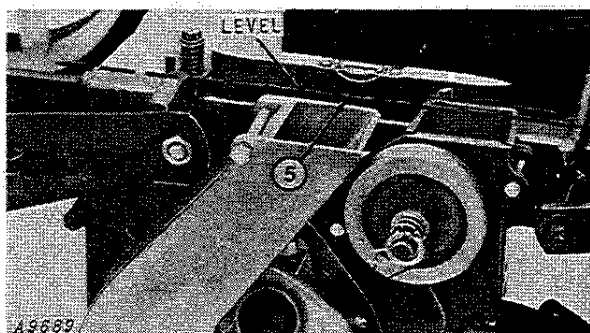
2. Level planter frame by adjustments in planter hitch.

NOTE: To level planter frame, place level on bottom of planter hitch.

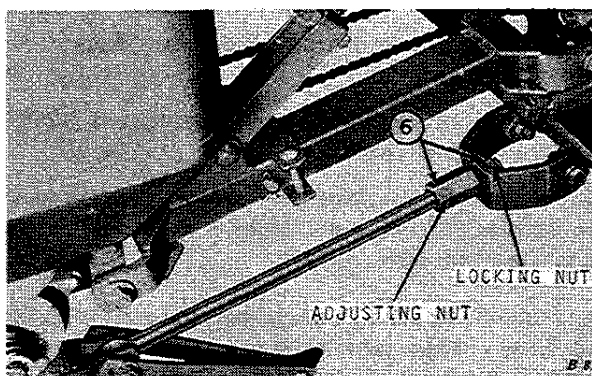


3. Adjust all depth adjusting cams to midway position as shown.

4. Block up press wheels so runners are not touching the ground.



5. Remove seed hopper and place level on top of shank.



6. Level units with sleeve adjusting nut and locking nut on adjustable lower shank drawbar. Tighten locking nut to 150 foot-pounds of torque.

NOTE: Units may require further adjustment in the field.

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