

100 SERIES TOOL CARRIER



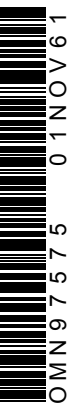
JOHN DEERE

OPERATORS MANUAL 100 SERIES TOOL CARRIER

OMN97575 (01NOV61) English

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To the purchaser

This operator's manual has been carefully prepared and illustrated to provide the necessary information regarding assembly, operation, and adjustments so that you may obtain maximum service and satisfaction from your new 100 Series Tool Carrier.

Study this manual carefully and keep it handy in a safe place for future reference.



If you should find that you require information not covered in this manual, consult your John Deere dealer. He will be glad to answer any question that may arise regarding the operation of your tool carrier. Your John Deere dealer has trained mechanics who are kept informed on the best service methods and will render you prompt service if needed.

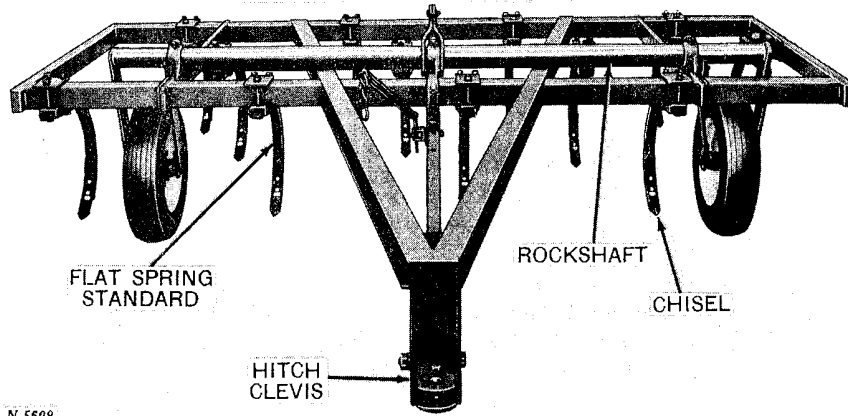
Occasionally, your tool carrier may need new parts to replace worn parts. If you will furnish your dealer the description and the information which should be recorded at the bottom of this page when the tool carrier is delivered, he can give you prompt and efficient parts service.

JOHN DEERE 100 SERIES TOOL CARRIER	
No. of Tool Carrier	
No. of Tool Equipment	
Date Purchased 19	
<i>(To be filled in by purchaser)</i>	

Price—\$.75

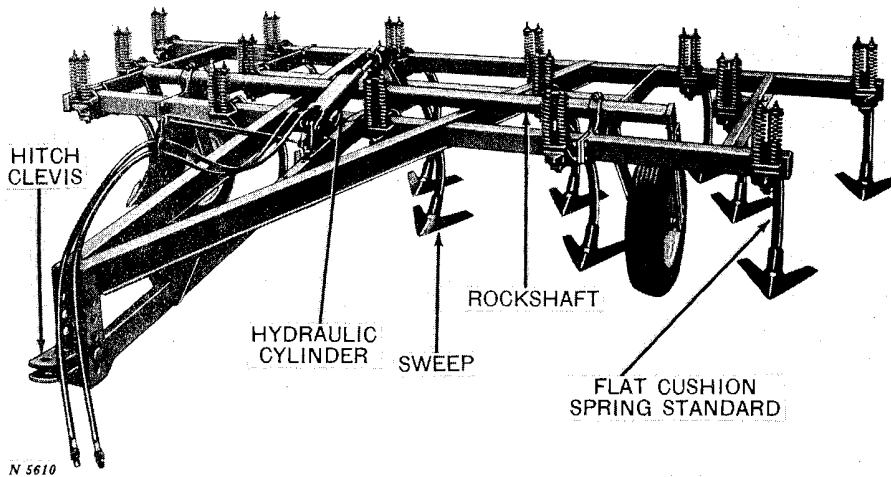
Contents

	Page
SPECIFICATIONS	5
OPERATION AND ADJUSTMENTS	6-8
Tractor Drawbar	6
Tooth Patterns	6
Carrier Wheels	6
Hydraulic Depth Control and Transport Straps	7
Adjusting Flat Cushion Spring Standards	7
Leveling Tool Carrier From Front to Rear	8
Leveling Tool Carrier From Side to Side	8
Safety Suggestions	9
Care of Rubber Tires	9
LUBRICATION	10
SPECIAL EQUIPMENT	10
OPTIONAL EQUIPMENT	11-12
SHIPPING BUNDLES	13-14
ASSEMBLY	15-28



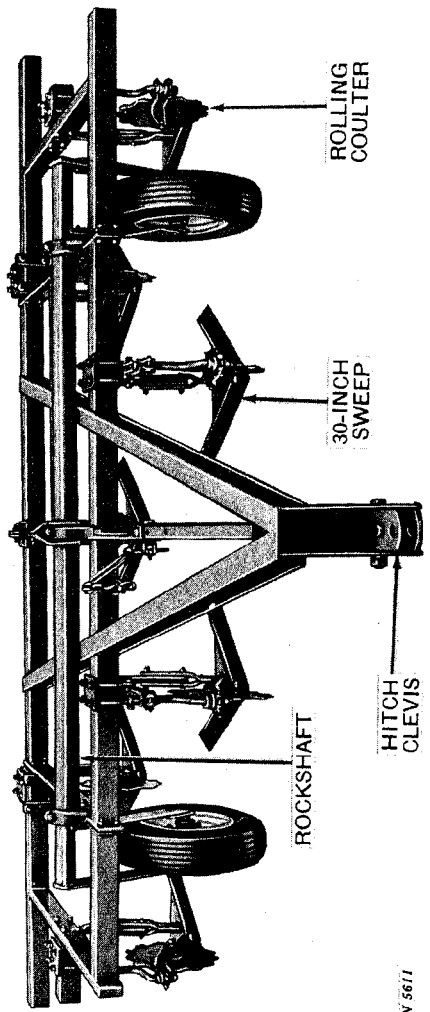
N 5609

John Deere 112-12-Foot Tool Carrier with Flat Spring Standards



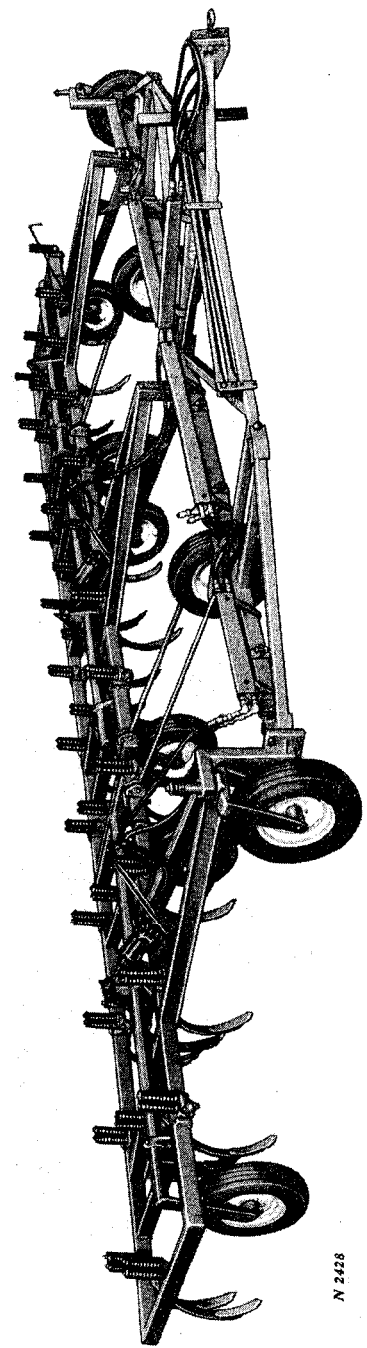
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John Deere 116-16-Foot Tool Carrier with Flat Cushion Spring Standards



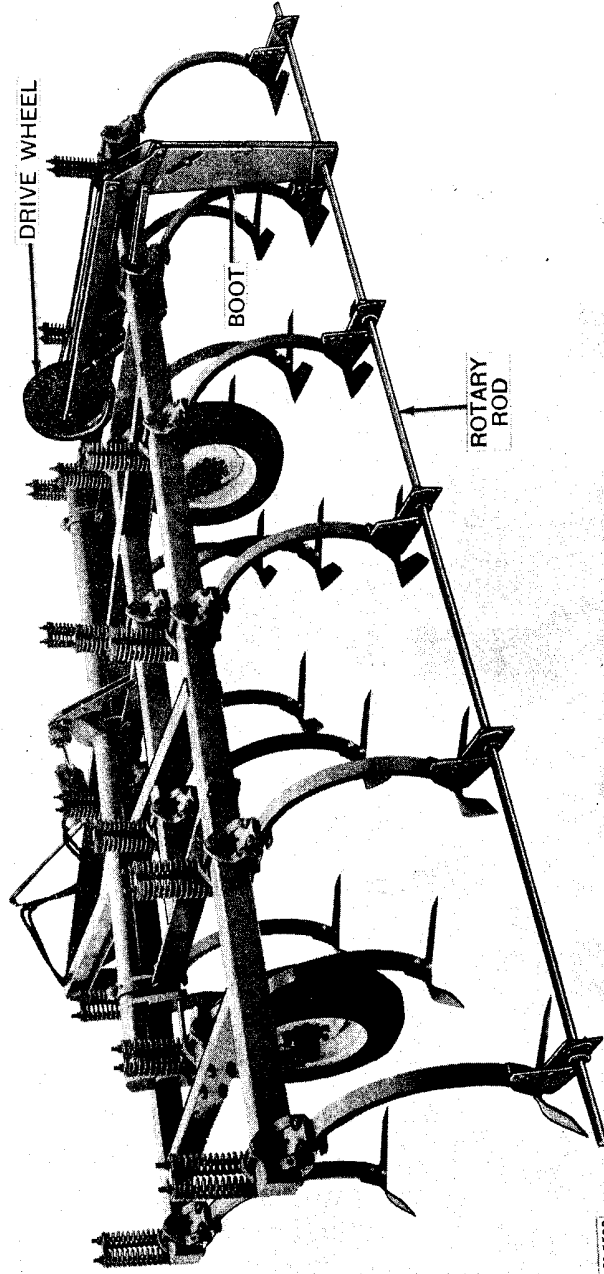
N 5671

John Deere 116-16-Foot Tool Carrier with Sub-Surface Stiff Standards and Sweeps



N 2428

Three John Deere 112-12-Foot Hydraulic Lift Tool Carriers with MH Squadron Hitch



John Deere 116 Tool Carrier with 186 Rod Weeder Attachment

N 5588

Specifications

110-10-Foot Tool Carrier
 112-12-Foot Tool Carrier
 114-14-Foot Tool Carrier
 116-16-Foot Tool Carrier

Tool equipment

Tool equipment is available as follows:

Flat cushion-spring standards or flat spring standards, 1 x 2-inch, for heavy-duty sweeps, chisels, spikes, shovels, and furrow openers. Sub-surface standards for 30- or 36-inch sweeps.

Frame

4 x 4-inch square tube tool bars—welded type of construction. One basic center frame and hitch section is used for all models. Frame extensions which attach to basic center section create the different models.

Wheels

15-inch disk wheels (for 6.70 - 15 tire, 7.60 - 15, or 8.00 - 15 tire). Heavy-duty anti-friction wheel bearings are used in each wheel.

Hydraulic cylinder requirements

Use 8- or 12-inch stroke remote cylinders.

Attachments

180 Rod Weeder

181-10-Foot Rod for 110 Tool Carrier

182-12-Foot Rod for 112 Tool Carrier

184-14-Foot Rod for 114 Tool Carrier

186-16-Foot Rod for 116 Tool Carrier

Friction drive with semi-pneumatic drive wheel running on carrier wheel. Rotary rod is chain driven.

Drawbar

Screw Jack

NOTE: Right-hand and left-hand sides referred to in this manual are determined from a position at the rear of the machine facing the direction of travel.

(Specifications and design subject to change without notice)

Operation

The 100 Series Tool Carrier, when properly adjusted, meets the requirements of practically all large field-cultivating jobs. This machine is ideal for sub-surface cultivation and summer-fallow work.

Tractor drawbar

The tractor drawbar should be pinned in a fixed centered position, except when a swinging drawbar is essential to facilitate ease of turning with the sweeps or shovels remaining in the ground. A fixed position drawbar will contribute to tool carrier stability and efficiency.

Tooth patterns

Two different tooth patterns can be used with flat cushion-spring standards or flat spring standards. Each pattern has advantages under different conditions. These tooth patterns are illustrated on pages 21 to 28.

Diagonal pattern

The diagonal pattern arrangement has the standards angled from left-to-right, and front-to-rear, as viewed from the rear of the tool carrier. This arrangement provides for maximum trash clearance and is desirable for most operating conditions. The standards on each bar are spaced 36 inches apart.

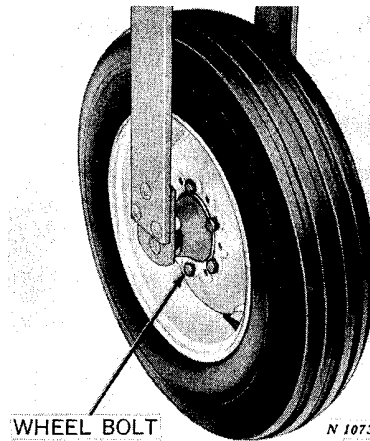
When operating on hillsides with the left-hand wheel on the high side, the diagonal pattern eliminates side slippage, giving the carrier more stability.

Split pattern

The split pattern arrangement has the standards angling from the front to the rear, in both directions. In other words, the pattern forms a wedge.

This pattern is recommended when operating in flat land when the soil is extremely hard and dry. The use of the split pattern, when working under these conditions, will keep the carrier trailing straight behind the tractor.

Carrier wheels

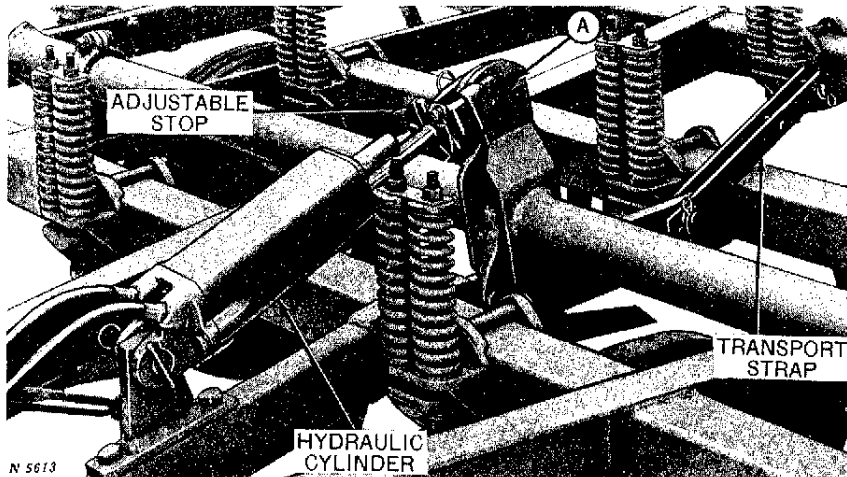


Check and adjust the wheel bearings periodically, especially during the first week of operation. Also check the tightness of all wheel bolts.

To check the bearing adjustment, remove the cotter pin and tighten the slotted nut until you can feel a considerable drag on the bearings while turning the wheel. Loosen the nut one slot and insert the cotter pin.

There should be some drag on the bearings after adjustment.

Hydraulic depth control and transport straps



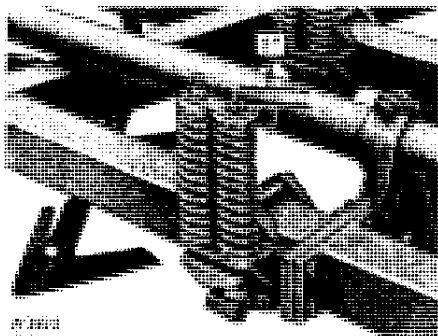
Depth of operation is controlled by the location of the adjustable stop on the hydraulic cylinder. See tractor operator's manual. The cylinder is retracted in operating position. It is extended in transport position.

Before removing the hydraulic cylinder, attach the transport strap to hole 'A' in the rockshaft arm.

Do not attempt to raise or lower the tool carrier with the transport straps attached to the rockshaft arm.

To detach the transport strap, operate the cylinder just enough to release the strap. Pull the pin and detach the strap from the rockshaft arm.

Adjusting flat cushion spring standards



The tension on the springs on flat cushion-spring standards can be adjusted to give the desired amount of standard movement during operation.

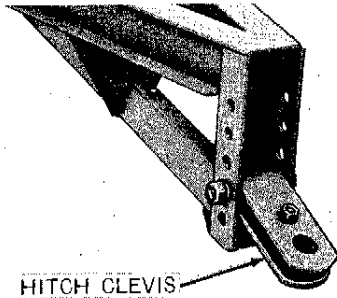
Tighten the nuts to compress the spring for less standard movement. Loosen the nuts to extend the springs for more standard movement.

An average setting is to have one-inch of the bolt protruding past the end of the nut.

IMPORTANT: To give the tool carrier stability, all springs must be adjusted with the same amount of compression.

8 operation

Leveling tool carrier from front to rear

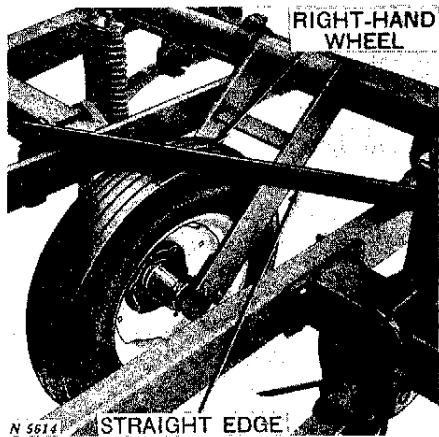


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The tool carrier should be level when in the operating position. Set hitch clevis to maintain this level position when the tool carrier is hitched to the tractor.

NOTE: The clevis bolt must be tight to prevent the clevis bushing from rotating.

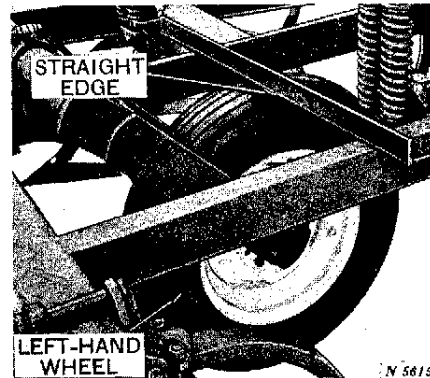
Leveling tool carrier from side to side



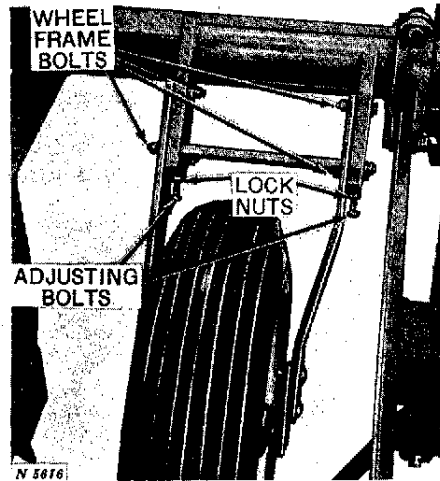
Place a straight edge across the frame members over the right-hand wheel as shown.

Use the hydraulic system to raise the wheels until the right-hand wheel

just touches the bottom of the straight edge.



Keep the right-hand wheel in this position and use the straight edge to check the height of the left-hand wheel. The top of the wheel should just touch the bottom of the straight edge. If necessary adjust the wheel frame until the left-hand wheel touches the straight edge.



To adjust the height of the left-hand wheel, loosen the bolts securing the wheel frame plates to the rockshaft. Loosen the lock nuts on the adjusting bolts. Turn the adjusting bolts until the wheel is the proper height. Tighten all bolts. Be sure the lock nuts are tight.

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