

414, 614 AND 814 ROTARY HOES



JOHN DEERE

OPERATORS MANUAL 414, 614 AND 814 ROTARY HOES

OMN159243 J0 English

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ENGLISH





To the Purchaser

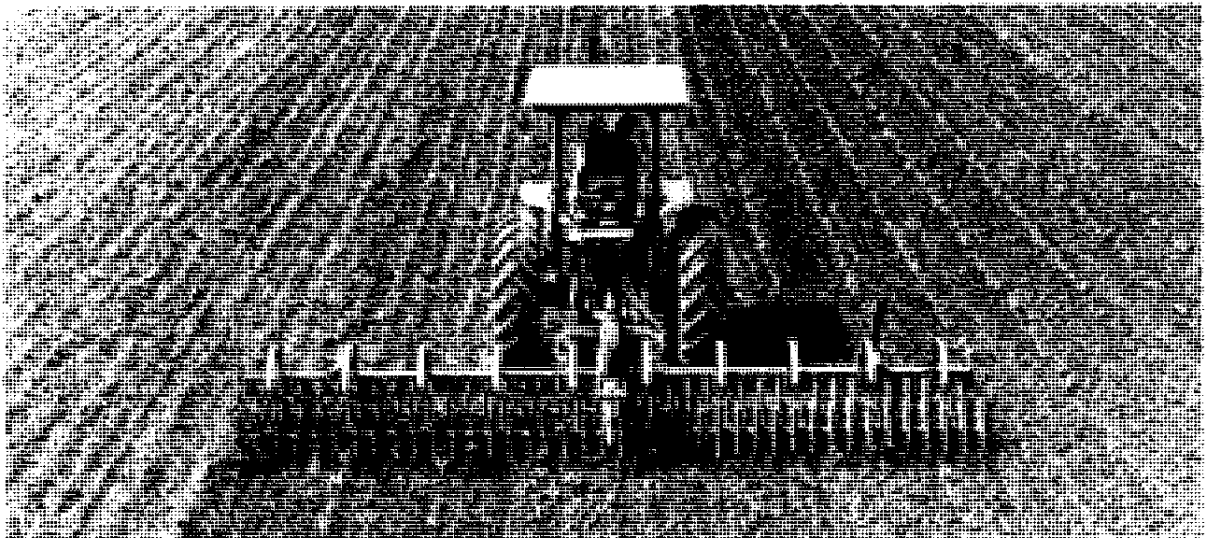
This rotary hoe was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or adjustments. Read the table of Contents to learn where each section is located.

 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 rotary hoe will travel in use.

Record your rotary hoe serial number in the space provided on page 31. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your rotary hoe requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

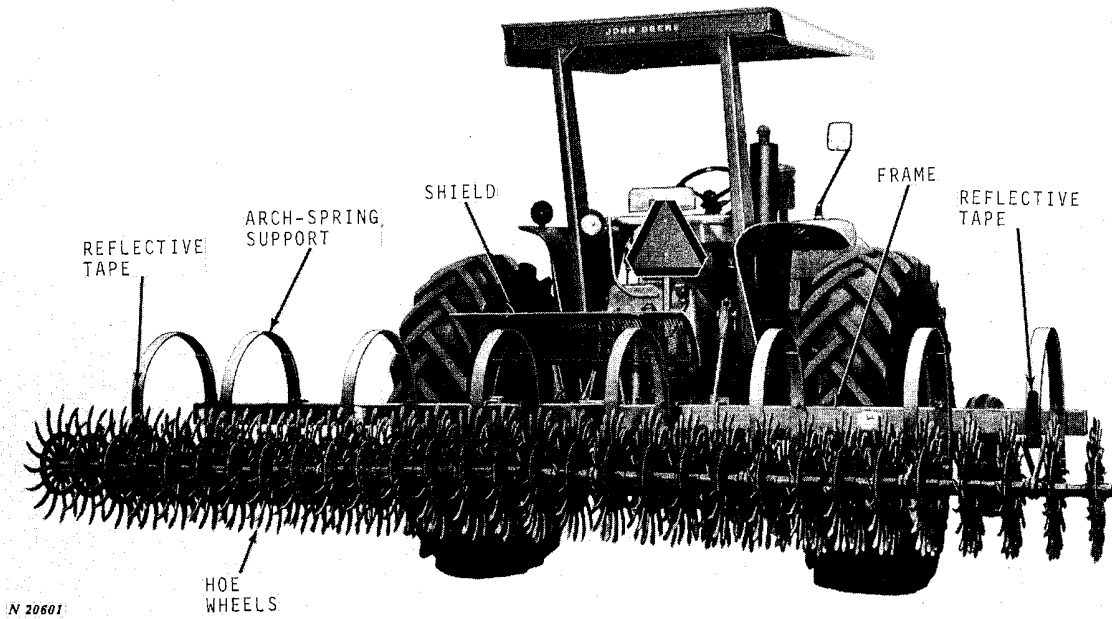
The warranty on this rotary hoe appears on your copy of the purchase order which you should have received from your dealer when you purchased the rotary hoe.





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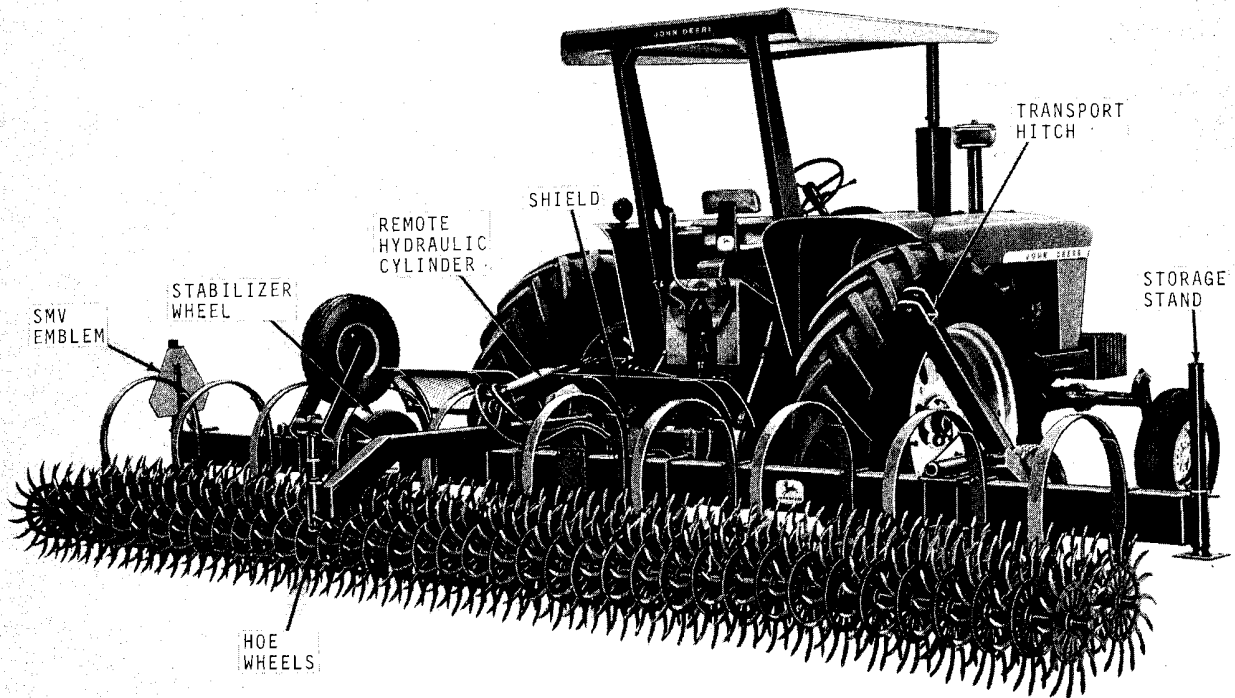
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N 20601

HOE WHEELS

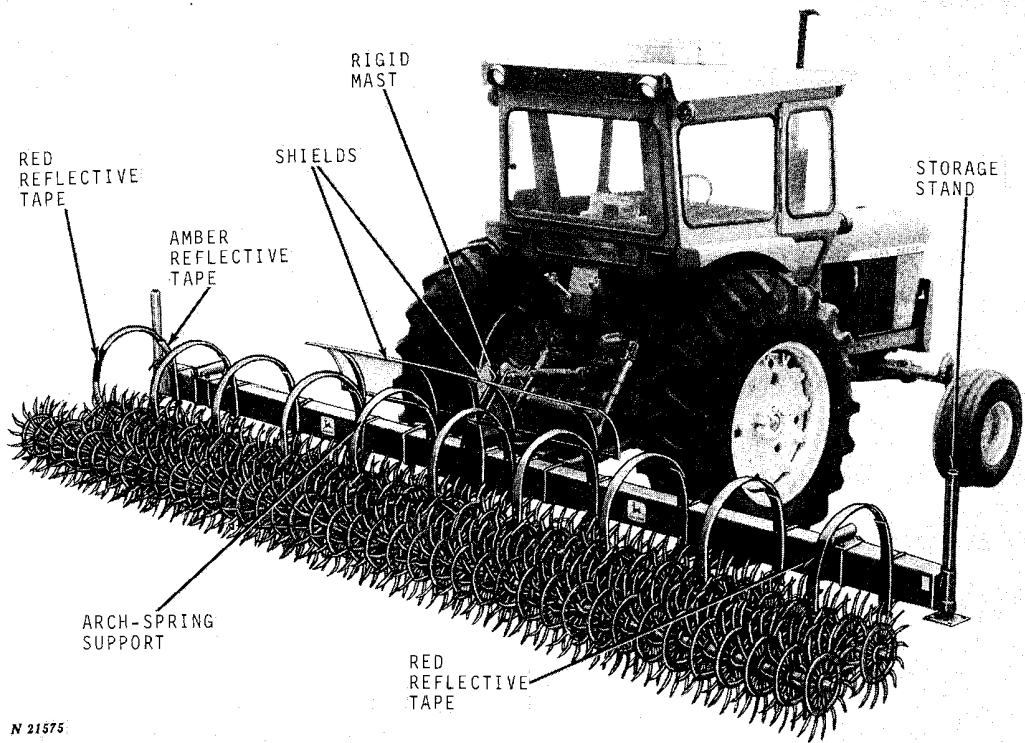
John Deere 414 in Transport Position



N 19970

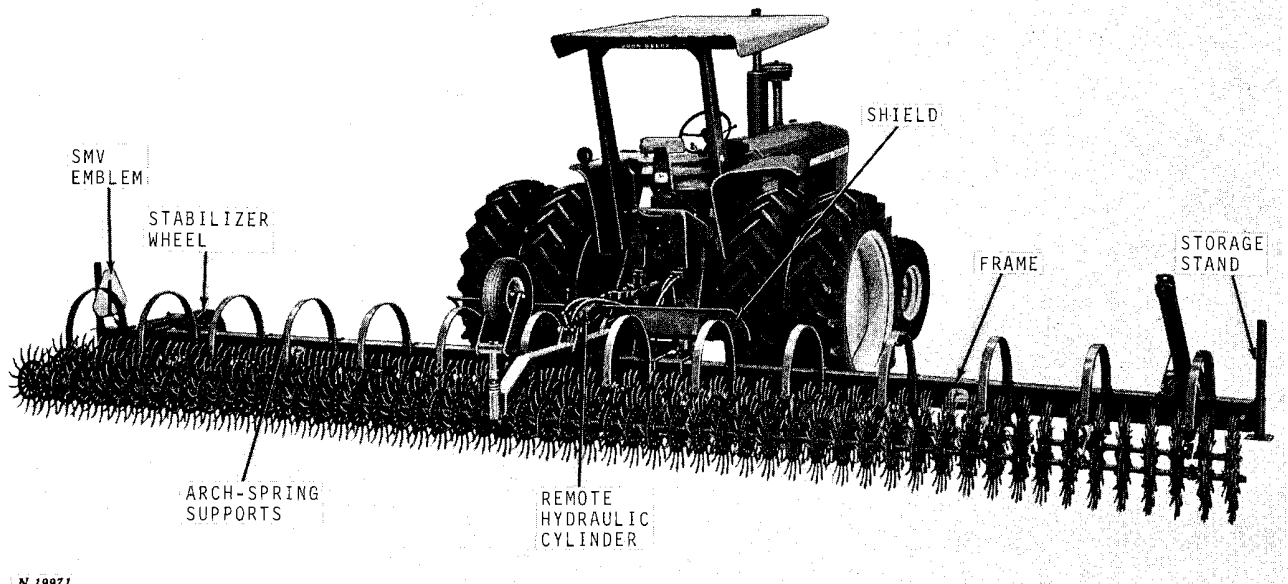
HOE WHEELS

John Deere 614 Rotary Hoe with Endways Transport in Operating Position



N 21575

John Deere 614 Rotary Hoe with Rigid Mast and without Endways Transport in Operating Position



N 19971

John Deere 814 Rotary Hoe in Operating Position



Operation

GENERAL

Many growers consider the rotary hoe an indispensable and unexcelled tool for early cultivation of all kinds of row crops, such as, corn, beans, peas, cotton, tobacco, and sugar beets; also mint, clover, alfalfa, and other field crops. It is unequalled for maintaining proper tillage conditions in seedbeds from the time they are ready for seeding until the crop is large enough for safe cultivation with shovel cultivators.

The 414 Rotary Hoe is not equipped with endways transport.

The 614 Rotary Hoe is equipped either with a rigid mast and without endways transport or with endways transport.

The 814 Rotary Hoe is equipped with endways transport.

PREPARING THE ROTARY HOE

Bolts and Nuts

Before starting to work with your new rotary hoe or one which has been stored, check to see that all nuts and bolts are tight.

Hoe Wheels

Check all hoe wheels for straightness, replace if necessary. Make sure rear gang of wheels runs approximately centered to front gangs.

Tire Inflation

Check tires on rotary hoe to be sure they are inflated to 50 psi to 55 psi.

Lubrication

Be sure rotary hoe has been lubricated properly. See page 17.

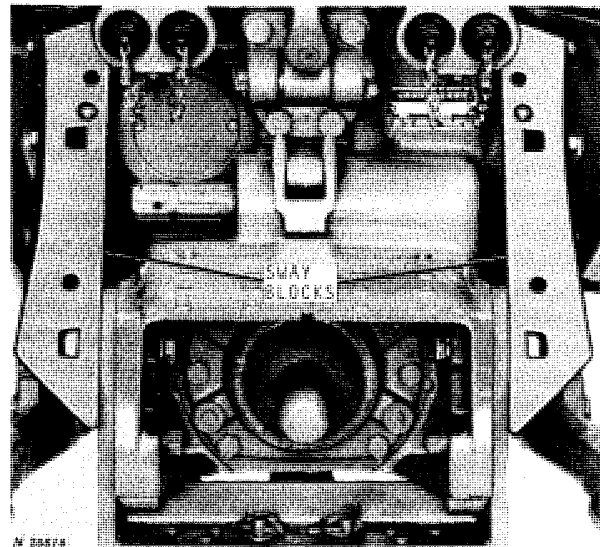
PREPARING THE TRACTOR

For complete tractor operating instructions, tire inflation pressures, and use of rear-mounted integral implements, refer to your tractor operator's manual.

Tire Inflation

Check tractor tires for correct inflation pressures and ballast. See your tractor operator's manual.

Sway Blocks



Sway Blocks in Upper Wide Position

Place sway blocks in the upper wide position as shown in the illustration above. This will eliminate side sway when the rotary hoe is raised for transport but will permit lateral flexibility when working.

Lift Links and Center Link

Adjust the length of the lift links to 29-1/2 inches on the 2520, 3020, 4020 and 4520 Tractors and 39-9/16 inches on the 5020 Tractor.

ADJUST THE CENTER LINK TO THE MINIMUM LENGTH FOR 614 WITH ENDWAYS TRANSPORT AND 814 ROTARY HOES.

Front End Weight

Weights may be added to front of tractor to increase operating stability. See tractor operator's manual for information on use of front end weights with heavy integral implements. Add weight to tractor as shown below.

Float Adjustment

Adjust the lift links for lateral float of the implement. See your tractor operator's manual.

Selector Lever

Place the selector lever in the "D" position.

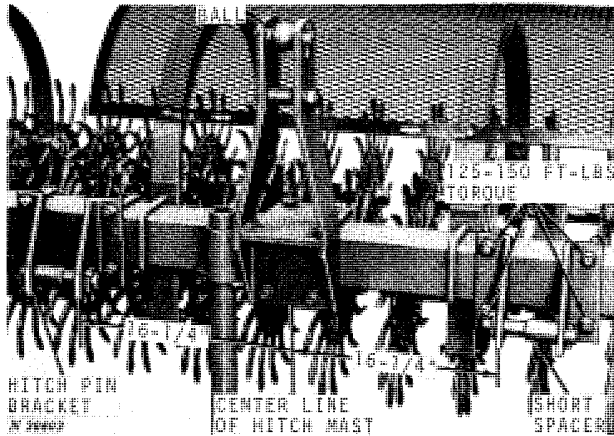
Tractor Model	Front Axle	Weight-Lbs.		
		414	614	814
1020 RU	Sweptback	500	* N.R.	* N.R.
1020 RU	Straight	400	* N.R.	* N.R.
1020 HU	Straight	400	* N.R.	* N.R.
1520 RU	Sweptback	400	* N.R.	* N.R.
1520 RU	Straight	300	* N.R.	* N.R.
2020 RU	Sweptback	300	* N.R.	* N.R.
2020 RU	Straight	100	* N.R.	* N.R.
2020 HU	Straight	100	* N.R.	* N.R.
2520 Row-Crop	Tricycle	200	1510	* N.R.
2520 Row-Crop	Adjustable Tread	0	1175	* N.R.
3020 Row-Crop	Tricycle	0	1250	* N.R.
3020 Row-Crop	Adjustable Tread	0	925	* N.R.
3020 Standard	All	0	1075	* N.R.
4000 Row-Crop	Adjustable Tread	0	400	1250
4020 Row-Crop	Tricycle	0	750	1510
4020 Row-Crop	Adjustable Tread	0	400	1250
4020 Standard	All	0	500	1425
4520 Row-Crop	Adjustable Tread	0	0	100
5020 Row-Crop	Adjustable Tread	0	0	0
5020 Standard	Adjustable Tread	0	0	0
* Not recommended				

ATTACHING ROTARY HOE TO TRACTOR

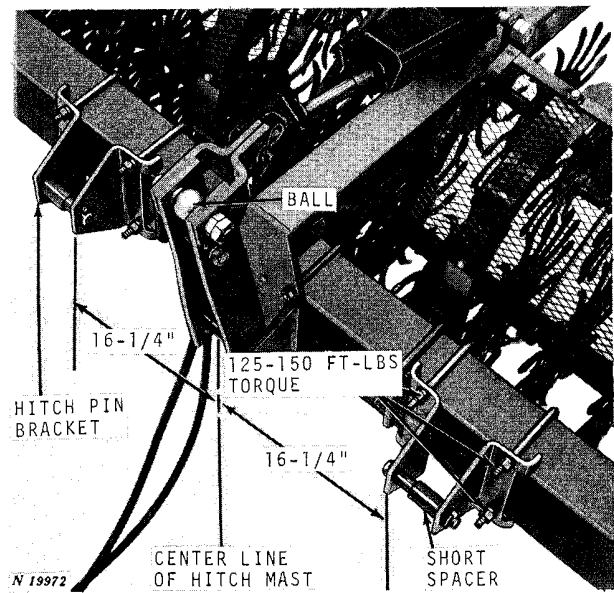
Before attaching rotary hoe to tractor, be sure hitch is adjusted correctly as shown in the following illustrations.

Adjusting Rotary Hoe Hitch

For Category 2 Hitch Without Quik-Coupler



414 and 614 with Rigid Mast and without Endways Transport (414 Illustrated)

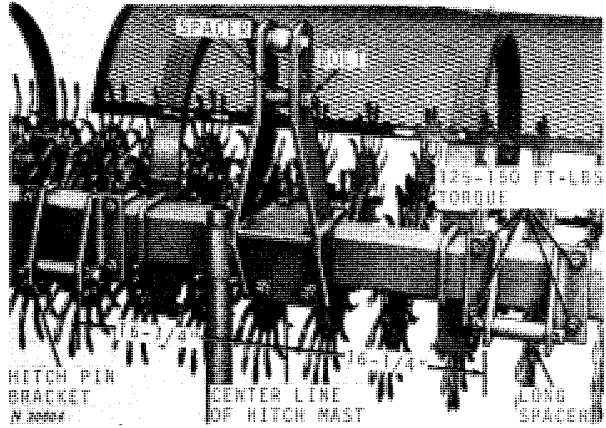


614 with Endways Transport and 814 (814 Illustrated)

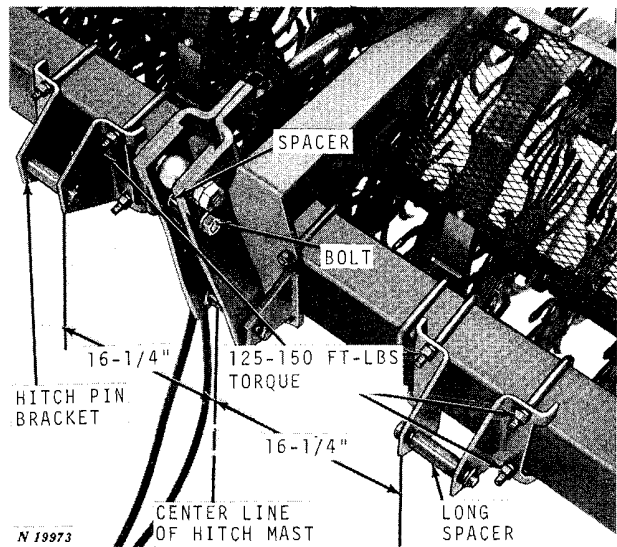
Position hitch pin brackets 16-1/4 inches from the center of the hitch mast to the hitch pin bracket as shown. Tighten U-bolts to 125-150 ft-lbs torque.

Install ball in top hole of hitch mast. Install short spacers in hitch pin brackets as shown and fasten with quik-lock pins.

For Category 2 Hitch with Quik-Coupler



414 and 614 with Rigid Mast and without Endways Transport (414 Illustrated)



614 with Endways Transport and 814 (814 Illustrated)

Position hitch pin brackets 16-1/4 inches from the center of the hitch mast to the hitch pin bracket as shown. Tighten U-bolts to 125-150 ft-lbs torque.

Install spacer and bolt in second hole down in hitch mast. Install long spacers in hitch pin brackets and fasten with quik-lock pins.

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