



John Deere

Operator's Manual

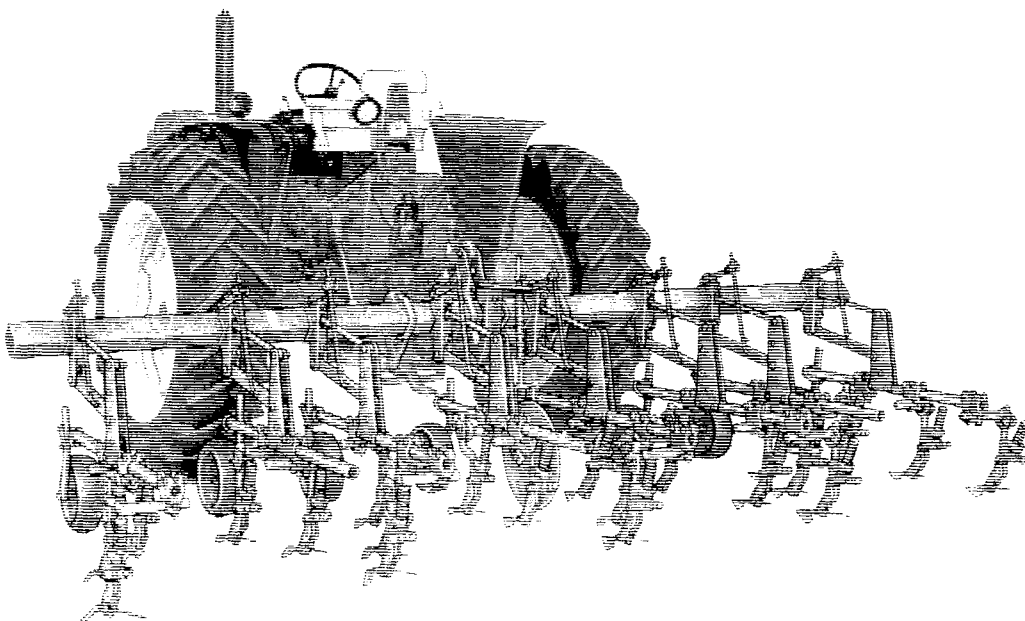
RG4, RG6, RG430

OM-N159224

and RG630

Issue H0

Row-Crop Cultivators





To the Purchaser


This new cultivator 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.

In addition to the equipment furnished with your cultivator, 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 cultivator will travel when in use.

Record your cultivator serial number in the space provided on page 64. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your cultivator requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts—accept no substitutes.

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

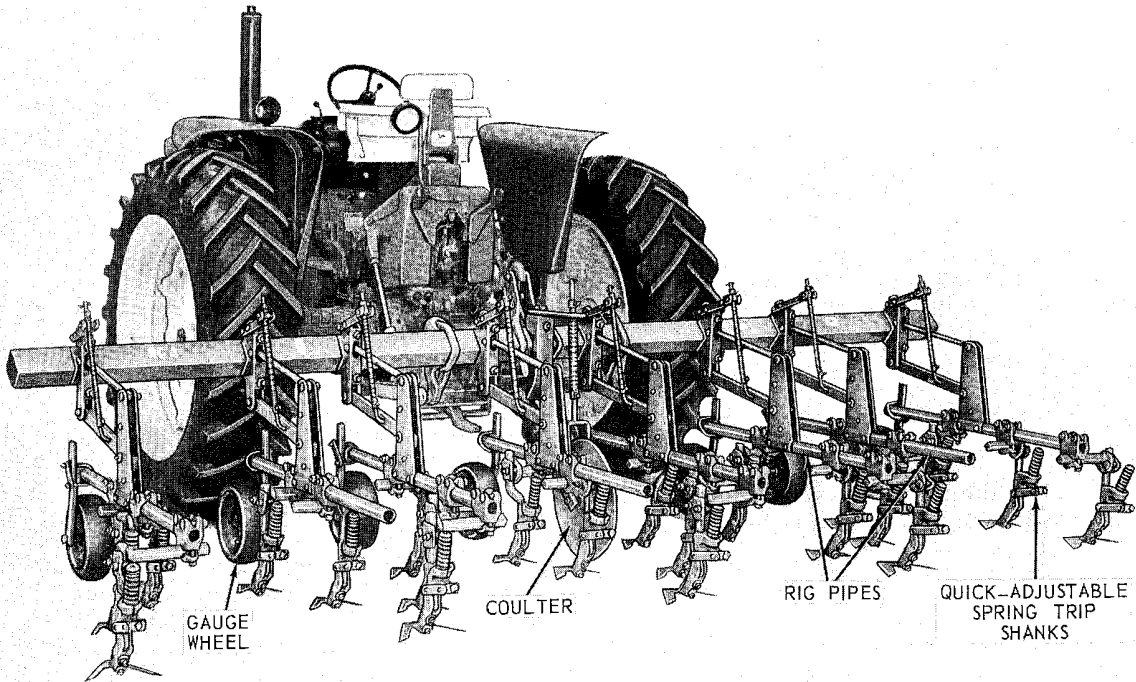
 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.





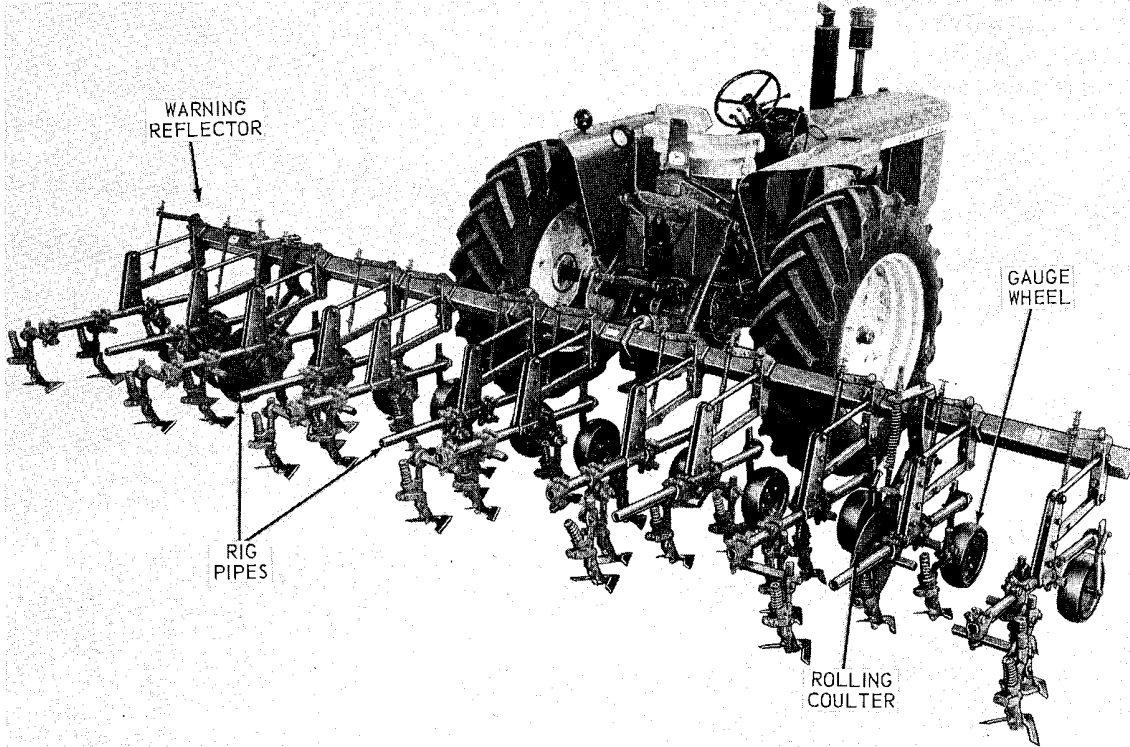
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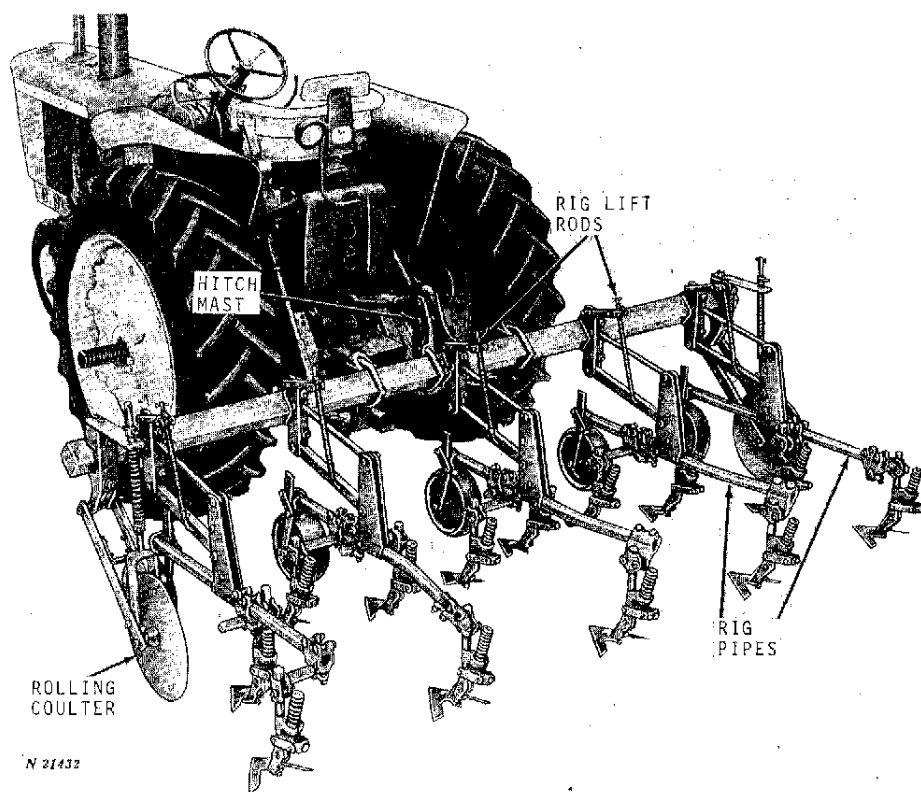
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John Deere RG4 Cultivator with Quick-Adjustable Spring-Trip Shanks



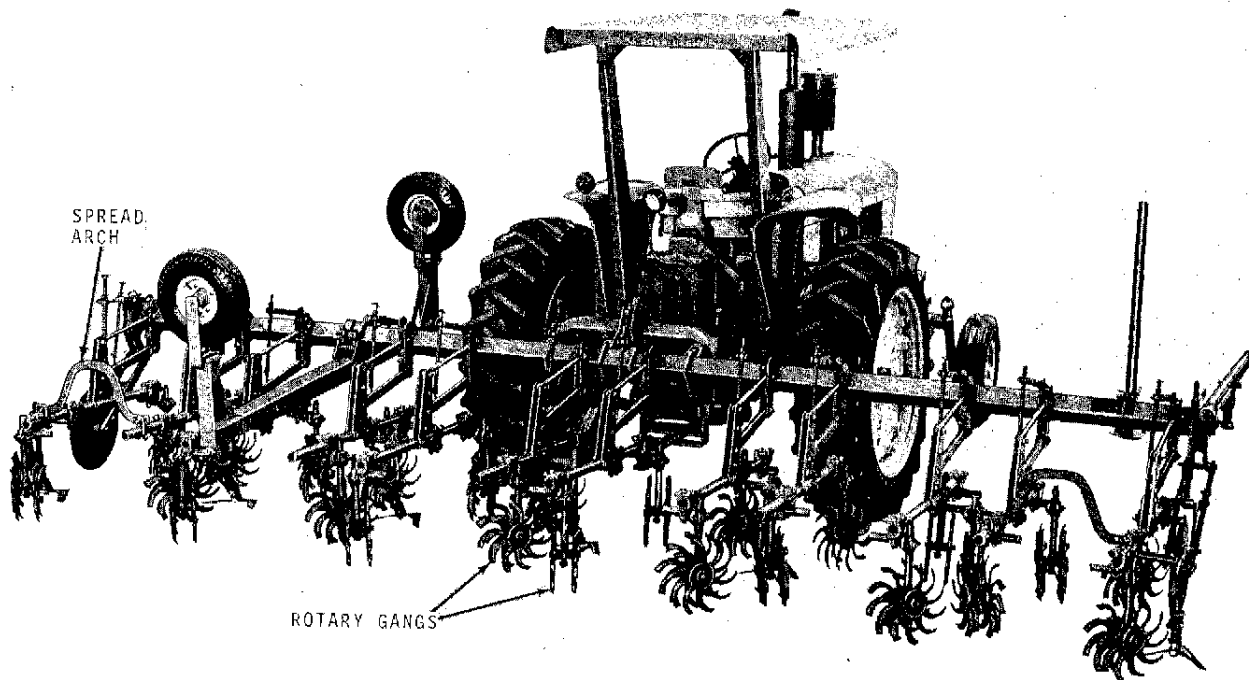
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John Deere RG6 Cultivator with Quick-Adjustable Spring-Trip Shanks



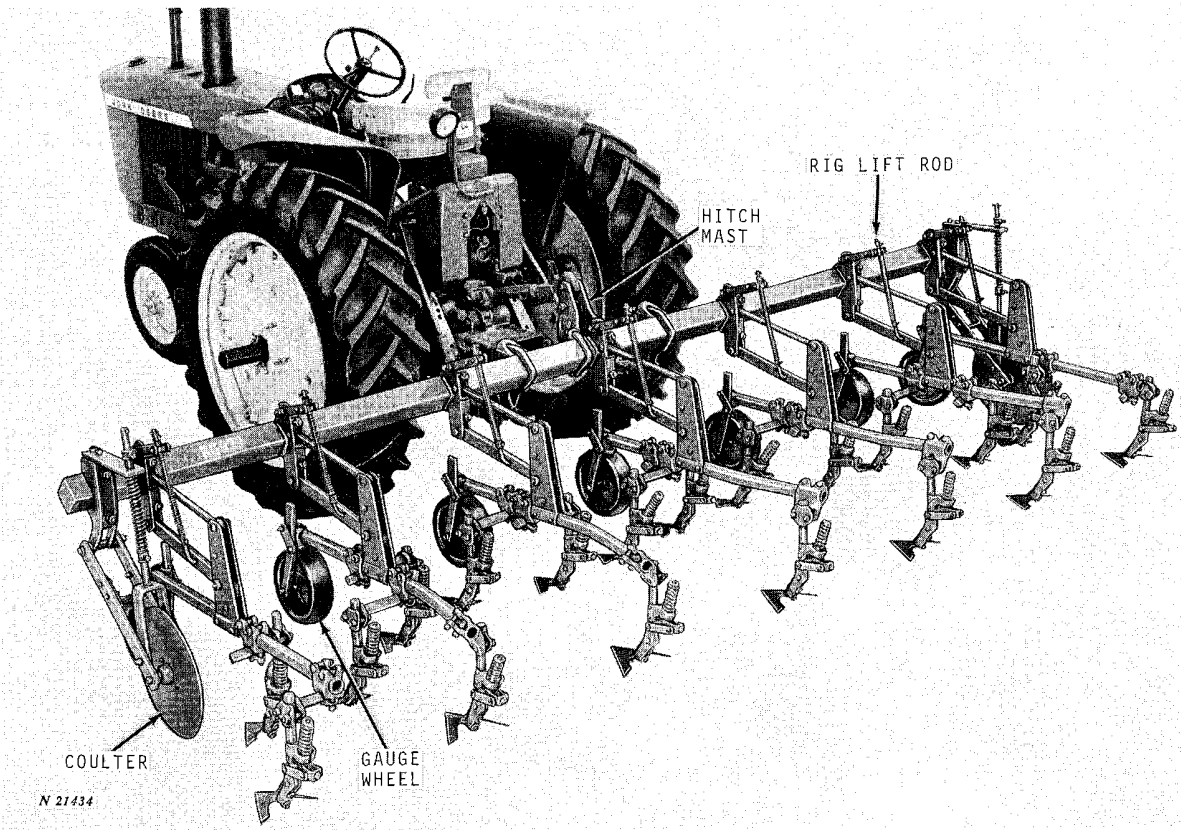
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John Deere RG430 Cultivator with Quick-Adjustable Spring-Trip Shanks

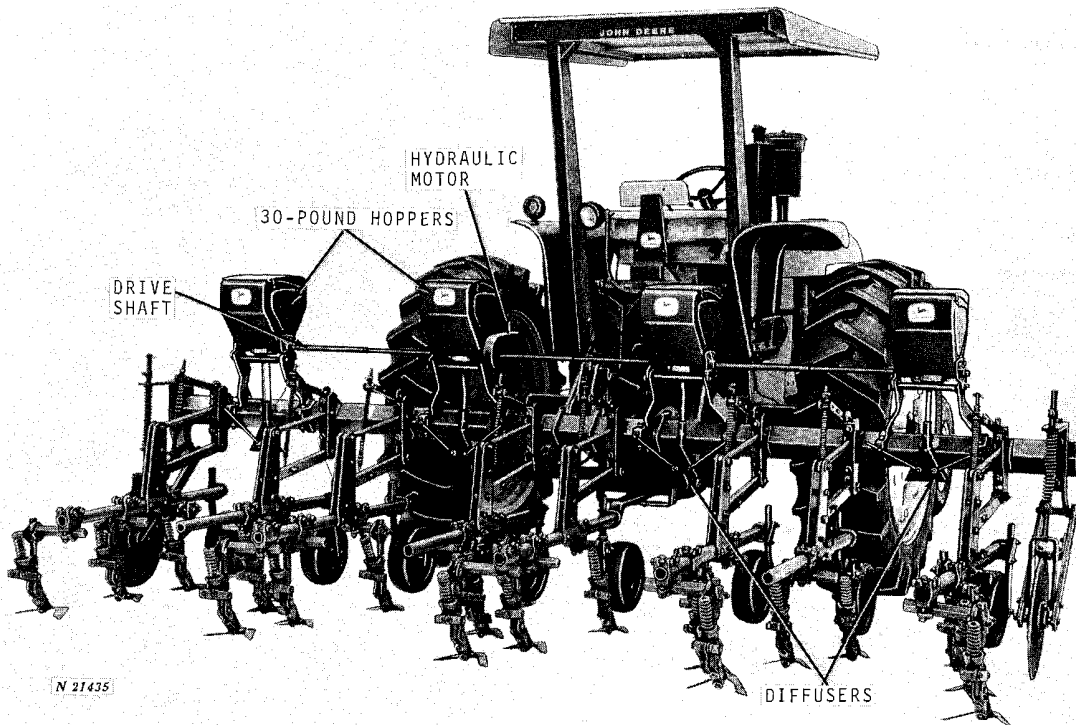


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John Deere RG6 Rotary Cultivator with Endways Transport Attachment



John Deere RG630 Cultivator with Quick-Adjustable Spring-Trip Shanks

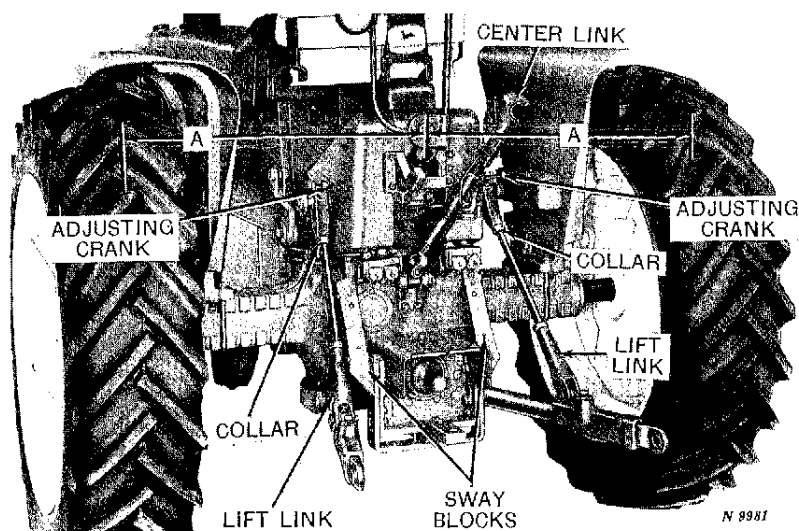


John Deere RG4 Cultivator with No. 4 Granular Insecticide Attachment



Operation

PREPARING THE TRACTOR



Wheel Spacing

Set tractor wheels to operate in the center of the space between rows for the row width to be cultivated. Measure from center-to-center of tires and be sure tractor wheels are spaced equidistant from the center of the tractor as at "A" above.

See tractor operator's manual for correct tire inflation pressure and rear wheel ballast.

Rear Tire Limitations

Use only 13.6-28 or 13.9-36 rear tires on 1010 Tractor.

12.4-28 4-ply, 12.4-36 4-ply, and 13.6-28 4-ply rear tires are not recommended on 1520 Tractors.

When RG4 Cultivator with No. 28 Six-Row Attachment is used on 2010 or 2020 Tractor, use only 13.9-36 4-ply or 13.9-36 6-ply tires on rear wheels. Inflate 4-ply tires to 14 psi, 6-ply tires to 20 psi.

12.4-38 4-ply rear tires are not recommended on 2520 Tractors.

The 3010 Tractor with rear tires other than 13.9-36 size must be equipped with Quik-Coupler when used with RG430 or RG630 in 22 or 24-inch rows.

13.6-38 6-ply rear tires are not recommended for 3020 when cultivator is equipped with Endways Transport Attachment.

Use only 18.4-38 10-ply rear tires for 28 or 30-inch row spacing on 4520 Tractor.

PREPARING THE TRACTOR—Continued

Rear Tire Limitations—Continued

The following rear tractor tire and cultivator with Granular Insecticide Attachment combinations are NOT recommended:

RG4 with No. 4 Granular Attachment:

1020RU	11.2-28 4-ply 12.4-28 4-ply 13.6-28 4-ply	2020HU	12.4-36 4-ply 13.9-36 4-ply
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2020RU	12.4-28 4-ply 13.6-28 4-ply	1520	12.4-36 4-ply 12.4-28 4-ply 13.6-28 4-ply
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1020HU	12.4-36 4-ply	2520	12.4-38 4-ply
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RG6 with No. 6 Granular Attachment:

3020RC	13.6-38 6-ply
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RG430 with No. 4 Granular Attachment:

1020RU	11.2-28 4-ply 12.4-28 4-ply	1020HU	12.4-36 4-ply
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2020RU	12.4-28 4-ply	2020HU	12.4-36 4-ply
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RG630 with No. 6 Granular Attachment:

2020RU	12.4-28 4-ply 13.6-28 4-ply	2020HU	12.4-36 4-ply 13.9-36 4-ply
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Sway Blocks

Place sway blocks on 820RU, 1020, 2010, 2020, 2510, 2520, 3010, 3020, 4010, 4020, or 4520 Tractor in the upper position in category 2 or wide setting as shown in tractor operator's manual. Remove sway blocks from other tractors.

Connect sway chains on the 1010 Tractor to the tractor drawbar frame and lift links.

Hydraulic System

On 1010 or 2010 Tractor with dual hydraulic system, adjust the hydraulic system for parallel lift arm operation

Lift Links and Center Links

Set the lift links on 820RU, 1010, 1020, 1520, 2010, or 2020 Tractor to minimum length as instructed in

tractor operator's manual. On 1010 Tractor, attach the upper end of lift links to inner holes in rockshaft arms.

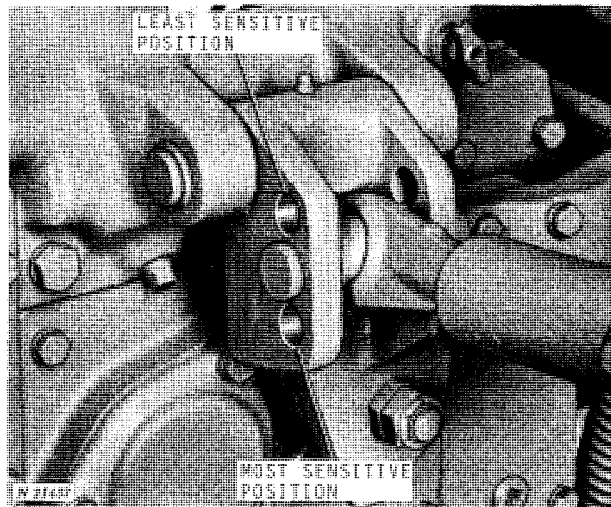
When RG4 or RG6 Cultivator is used on 3010, 3020, 4000, 4010, 4020, or 4520 Tractor, adjust the length of the lift links to 29 inches and the center link to 26 inches. When RG4 Cultivator is used on 2510 or 2520 Tractor adjust links same as above.

For RG430 or RG630, set lift links at 27 inches on 2510, 2520, 3010, or 3020 Tractor, 28-1/2 inches on 4000, 4010 or 4020 Tractor. Adjust cent link to 25 inches on 2510, 2520, 3010, or 3020 Tractor, 26 inches on 4000, 4010, 4020, or 4520 Tractor.

For more clearance between tractor tires and cultivator gauge wheels, lengthen lift links as needed.

Be sure lift links are adjusted for the "no float" position. See your tractor operator's manual.

Load and Depth Sensitivity



On 1010 Row-Crop or 1010 Row-Crop Utility Tractor, position the center link in the least sensitive position.

On 820RU, 1020, 2010, 2020, 2510, 2520, 3010, 3020, 4010, 4020, or 4520 Tractor, locate the load and depth control selector lever in the "D" position.

On other John Deere tractors, attach center link in the upper set of holes to reduce the Load-and-Depth Control Sensitivity to a minimum.

On the 1010 Tractor, turn the lockout screw out against the load control yoke.

Front End Weight

For those cultivator and tractor combinations which require additional front end weight for transport stability purposes, add front end weight to tractor as shown.

RG4 Cultivator

1010 Row-Crop:	
Single Front Wheel	* 280
Dual Front Wheel	* 280
Adjustable Tread	280

2010 Row-Crop:	
Single Front Wheel	425
Dual Front Wheel	340
Adjustable Tread	170

2020 Row-Crop:	
Adjustable Tread	300

2520 Row-Crop:	
Single Front Wheel	100
Dual Front Wheel	100

* Add 50 pounds fluid to each front tire.

RG4 Cultivator with No. 28 Six-Row Attachment

2010 Row-Crop:	340
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3010 Row-Crop:	
Single Front Wheel	100
Dual Front Wheel	100

3020 Row-Crop:	
Single Front Wheel	100
Dual Front Wheel	100

RG4 Cultivator with No. 4 Granular Insecticide Attachment

1020 RU:	
Adjustable Tread	* * 750

1020 HU:	
Adjustable Tread	* * 650

2020 RU:	
Adjustable Tread	* * 450

2020HU:	
Adjustable Tread	* * 350

* * Add 100 pounds if tractor is equipped with Quik-Coupler.

RG4 Cultivator with No. 4 Granular Insecticide Attachment

2510 Row-Crop:	
Dual Front Wheel	* * 500
Adjustable Tread	* * 200

2520 Row-Crop:	
Dual Front Wheel	* * 600
Adjustable Tread	* * 300

* * Add 100 pounds if tractor is equipped with Quik-Coupler.

RG6 Cultivator

3010 and 3020 Row-Crop:	
Single Front Wheel	820
Dual Front Wheel	735
Adjustable Tread	480

3010 and 3020 Row-Crop Utility:	
Adjustable Tread	480

4010 and 4020 Row-Crop:	
Single Front Wheel	480
Dual Front Wheel	395
Adjustable Tread	140

The above figures are for tractors with Quik-Coupler. If tractor is not equipped with Quik-Coupler, deduct 200 pounds from 3010 and 3020 weights and 300 pounds from 4010 and 4020 weights

RG6 Cultivator with No. 6 Granular Insecticide Attachment

3020 Row-Crop:	
Dual Front Wheel	1165
Adjustable Tread	995

3020 Standard:	
Adjustable Tread	820

4000 Row-Crop:	
Adjustable Tread	395

4020 Row-Crop:	
Dual Front Wheel	735
Adjustable Tread	480

4020 Standard:	
Adjustable Tread	395

The above figures are for tractors with Quik-Coupler. If tractor is not equipped with Quik-Coupler, deduct 200 pounds from 3020 weights and 300 pounds from 4020 weights.

PREPARING THE TRACTOR—Continued

Front End Weight—Continued

RG6 Cultivator

Without Endways Transport Attachment

3020 Row-Crop:	
Dual Front Wheel	820
Adjustable Tread	650
3020 Standard	650
4000 Row-Crop	140
4020 Row-Crop:	
Dual Front Wheel	565
Adjustable Tread	225
4020 Standard	225

With Endways Transport Attachment

3020 Row-Crop:	
Dual Front Wheel	1165
Adjustable Tread	820
3020 Standard	820
4000 Row-Crop	310
4020 Row-Crop:	
Dual Front Wheel	650
Adjustable Tread	395
4020 Standard	395

With Endways Transport Attachment and Granular Insecticide Attachment

3020 Row-Crop:	
Dual Front Wheel	Not Recommended
Adjustable Tread	Not Recommended
3020 Standard	Not Recommended
4000 Row-Crop	650
4020 Row-Crop:	
Dual Front Wheel	995
Adjustable Tread	735
4020 Standard	820

The above figures are for tractors with Quik-Coupler. If tractor is not equipped with Quik-Coupler, deduct 200 lbs. from 3020 and 4000 weights and 300 lbs. from 4020 weights.

RG430 Cultivator

820RU	300
1010	100
1020	100

RG430 Cultivator with No. 4 Granular Insecticide Attachment

1020 RU	400
1020HU	300
2020RU	200
2020HU	100

The above figures are for tractors with Quik-Coupler. If tractor is not equipped with Quik-Coupler, deduct 100 pounds from the above weights.

RG630 Cultivator

2010 Row-Crop	170
2020 Row-Crop	300
2520 Row-Crop:	
Dual Front Wheel	200
3020 Row-Crop:	
Dual Front Wheel	400

RG630 Cultivator with No. 6 Granular Insecticide Attachment

2020 RU	800
2020 HU	700
2510 Row-Crop:	
Dual Front Wheel	1000
Adjustable Tread	600
2520 Row-Crop:	
Dual Front Wheel	1200
Adjustable Tread	900
3020 Row-Crop:	
Dual Front Wheel	1000
Adjustable Tread	600
4000 Row-Crop:	
Adjustable Tread	100
4020 Row-Crop:	
Dual Front Wheel	400
Adjustable Tread	100
4520 Row-Crop:	
Adjustable Tread	100

The above figures are for tractors with Quik-Coupler. If tractor is not equipped with Quik-Coupler, deduct 100 pounds from the above weights.

RG630 Cultivator with No. 12 Shank Attachment

2520 Row-Crop:	
Dual Front Wheel	600
Adjustable Tread	300

3020 Row-Crop	400
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RG4 and RG6 Cultivators with Spray Shields

Tractor	Tractor Front Axle	RG4	RG4 with No. 28 Attachment (6-Row)
1020 RU	SB	450	850
1020 RU	STR	450	800
1020-1520 HU	—	450	800
1020-1520 LU	—	500	900
1520 RU	SB	450	800
1520 RU	STR	350	700
2020 RU	SB	200	600
2020 RU	STR	200	550
2020 HU	—	200	550
2020 LU	—	200	600
2520 RC	DUAL	300	650
2520 RC	ADJ.	0	300
3020 RC	DUAL	0	400
3020 RC	ADJ.	0	0
3020 PFWD	Fixed	0	0
3020 STD	SWB-ADJ.	0	0
3020 STD	SWB-FIXED	0	0
3020 STD	LWB-FIXED	0	0
4000 RC	—	0	0
4020 RC	DUAL	0	0
4020 RC	ADJ.	0	0
4020 PFWD	FIXED	0	0
4020 STD	SWB-ADJ.	0	0
4020 STD	SWB-FIXED	0	0
4020 STD	LWB-FIXED	0	0
4520 RC	—	0	0
5020 RC	ADJ.	0	0
5020 STD	FIXED	0	0

Tractor	Tractor Front Axle	RG6	RG6 with Transport Attachment
1020RU	SB	NR	NR
1020 RU	STR	NR	NR
1020-1520 HU	—	NR	NR
1020-1520 LU	—	NR	NR
1520 RU	SB	NR	NR
1520 RU	STR	NR	NR
2020 RU	SB	NR	NR
2020 RU	STR	NR	NR
2020 HU	—	NR	NR
2020 LU	—	NR	NR
2520 RC	DUAL	NR	NR
2520 RC	ADJ.	NR	NR
3020 RC	DUAL	1250	1600
3020 RC	ADJ.	900	1200
3020 PFWD	FIXED	0	200
3020 STD	SWB-ADJ.	1000	1400
3020 STD	SWB-FIXED	1000	1400
3020 STD	LWB-FIXED	850	1200
4000 RC	—	400	750
4020 RC	DUAL	700	1000
4020 RC	ADJ.	350	700
4020 PFWD	FIXED	0	0
4020 STD	SWB-ADJ.	400	750
4020 STD	SWB-FIXED	400	750
4020 STD	LWB-FIXED	300	600
4520 RC	—	0	0
5020 RC	ADJ.	0	0
5020 STD	FIXED	0	0

Legend			
SB	= Swept-back Axle	LWB	= Long Wheel Base
STR	= Straight Axle	PFWD	= Power Front-Wheel Drive
SWB	= Short Wheel Base	NR	= Not Recommended

The figures in the chart above and to the right are for tractors with Quik-Coupler. If tractor is not equipped with Quik-Coupler, deduct 150 pounds from 1020, 1520, and 2020 Tractors; deduct 250 pounds from 2520 and 3020 Tractors; deduct 300 pounds from 4000 and 4020 Tractors; and deduct 350 pounds from 4520 and 5020 Tractors.

The recommended front axle weight on 2520, 3020, 4000 and 4020 Adjustable Tread Tractors is limited to tire carrying capacity or 5600 pounds, whichever is smaller.

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perfect and complete manual in
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