

JOHN DEERE RG830F ROW CROP CULTIVATOR



JOHN DEERE

OPERATORS MANUAL JOHN DEERE RG830F ROW CROP CULTIVATOR

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LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

This operator's manual contains information regarding operation and adjustments so that you may obtain maximum service and satisfaction from your new cultivator.

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

Right-hand and left-hand reference is determined by standing at the rear of the cultivator and facing the direction of travel.

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 cultivator. Your John Deere dealer has trained mechanics who are kept informed on the best service methods and will render you prompt service if needed.

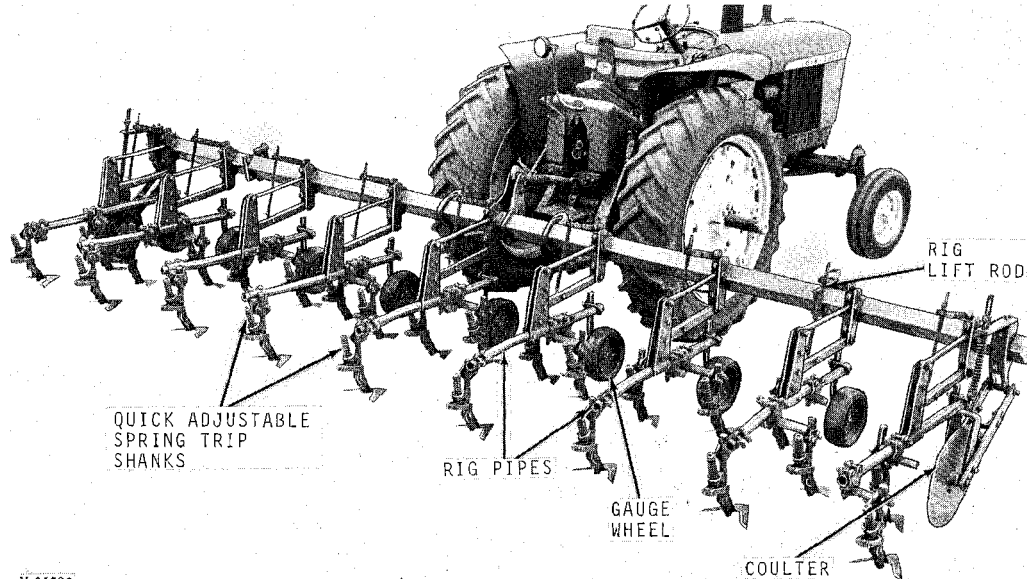
Occasionally, your cultivator may need new parts to replace worn parts. If you will furnish your dealer the description and the information which should be recorded below when the cultivator is delivered, he can give you prompt and efficient parts service.

JOHN DEERE RG830F CULTIVATOR	
Serial No.	
Date Purchased.19.....	

(To be filled in by purchaser)

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.

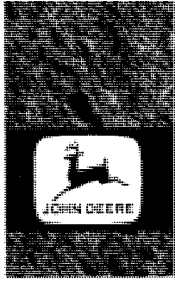


N 21526

John Deere RG830F Cultivator with Quick-Adjustable Spring-Trap Shanks

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SPECIFICATIONS

TRACTOR REQUIRED

John Deere 2510, 2520, 3010, 3020, 4000, 4010, 4020, 4520, 5020 or comparable row-crop tractors with 3-point hitch with or without Quik-Coupler. Cultivator cannot be folded for transport if tractor is equipped with dual rear wheels or dual wheel rear axle, or if rear wheel tread is greater than 60 inches on 4520 Tractor.

NOTE: AR27093R implement adapter required when tractor is equipped with Quik-Coupler.

ROW SPACING

RG830F Sweep Cultivator - 20 to 30 inches
RG830F Rotary Cultivator - 28 and 30 inches

BAR SIZE

Four-inch square tube.
Extended 20 feet 8 inches, folded 14 feet 8 inches.

GAUGE WHEELS

Rigid type with anti-friction bearings, regular.
Castering type, optional.

ROLLING COULTERS

Spring-mounted with anti-friction bearings.

WEIGHT

1,950 pounds (approximate)

SWEEP CULTIVATOR RIG EQUIPMENT

Regular spring-trip shanks (25) with universal sweeps.

Quick-adjustable spring-trip shanks (25) with universal sweeps.

Friction-trip shanks (25) with universal sweeps.

Double spring-tooth shanks (25) with single-pointed shovels.

Double spring-tooth shanks - heavy-duty (25) with single-pointed shovels.

Beet and bean equipment.

SWEEPS AND SHOVELS

A wide variety of types and sizes available.
See pages 26 and 27.

SPECIAL EQUIPMENT

Rig-Mounted Shields

Hooded Shields

Rolling Shields

Stationary Shields

Disk Hillers

Weeding Knife Shanks

Rotary Hoe

Extra Shank Attachment

Beet and Bean Clamps

Granular Insecticide Attachment

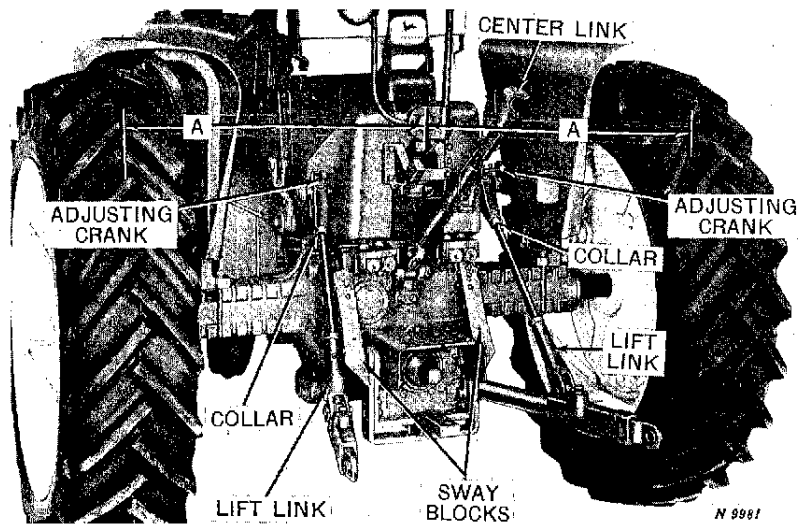
Clod Breaker Attachment

(Specifications and design subject to change without notice.)



OPERATION

PREPARING TRACTOR



WHEEL SPACING

Set the tractor wheels for the desired row spacing so the wheels are centered between the rows. The dimension "A" from the center of the tractor to the center of each tire should be the same.

NOTE: On 2520, 3020, 4000, and 4020 Tractors wheel tread is limited to 60 inches maximum. Extra long axles should not be used.

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

Rear Tire Limitations

Maximum rear tire size is 18.4 - 34.

12.4 - 38 4-PR rear tires are not recommended on 2510 Tractor.

12.4 - 38 6-PR rear tires are not recommended on 2520 Tractor.

18.4 - 38 10-PR single or 12.4 - 42 6-PR duals are recommended for 30-inch rows on 4520 Tractor.

12.4 - 42 6-PR duals are recommended for less than 30-inch rows on 4520 Tractor.

SWAY BLOCKS

Place the sway blocks in the upper wide setting as illustrated, to prevent cultivator side sway during transport. See tractor operator's manual.

LIFT LINKS AND CENTER LINK

Adjust the length of the lift links to 27 inches on the 3010 Tractor, 29-1/2 inches on the 2510, 2520, 3020, 4000, 4010 or 4020 Tractor and 39-9/16 inches on the 4520 and 5020 Tractor.

Adjust the length of the center links to 29 inches on the 2510, 2520, 3010, 3020, 4000, 4010 and 4020 Tractors and 31-5/8 inches on the 4520 and 5020 Tractor.

FLOAT ADJUSTMENT

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

4 Operation

PREPARING TRACTOR—Continued

LOAD AND DEPTH CONTROL

Place the load and depth control selector lever in the "D" position.

FRONT END WEIGHT

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

RG830F Cultivator

2510 Row-Crop:	
Single Front Wheel	650
Dual Front Wheel	650
Adjustable Tread	350

2520 Row-Crop:	
Dual Front Wheel	900
Adjustable Tread	600

3010 and 3020 Row-Crop:	
Single Front Wheel	400
Dual Front Wheel	700
Adjustable Tread	300

3010 and 3020 Row-Crop Utility:	
Adjustable Tread	300

3020 Standard:	
Adjustable Tread	400

4020 Row-Crop:	
Dual Front Wheel	100

RG830F Cultivator with No. 8 Granular

Insecticide Attachment

2520 Row-Crop:		
Dual Front Wheel	Not Recommended	
Adjustable Tread	Not Recommended	

3020 Row-Crop:	
Dual Front Wheel	1300
Adjustable Tread	1000

4000 Row-Crop:	
Adjustable Tread	400

4020 Row-Crop:	
Dual Front Wheel	700
Adjustable Tread	400

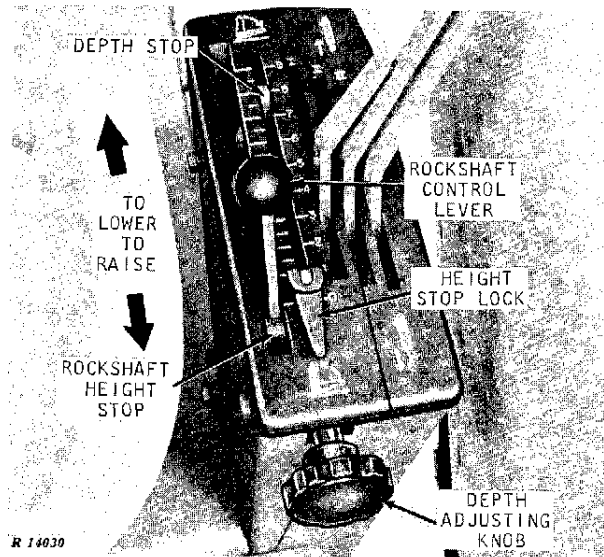
CONTROL LEVER

Use the rockshaft control lever to raise the cultivator for transport and lower the cultivator for operation. Set the depth stop so the cultivator frame stops about 28 inches from the ground when lowered for operation.

NOTE: The cultivator gauge wheels, not the tractor hydraulic system, control the cultivating depth.



Control Lever on Dash

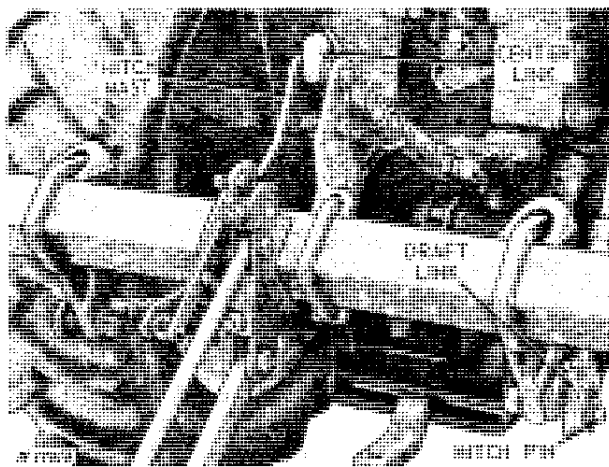


Control Lever on Console

R 14030

ATTACHING CULTIVATOR TO TRACTOR

TRACTOR WITHOUT QUIK COUPLER



Place cultivator on level surface. Back tractor toward cultivator until draft links almost line up with ends of cultivator hitch pins.

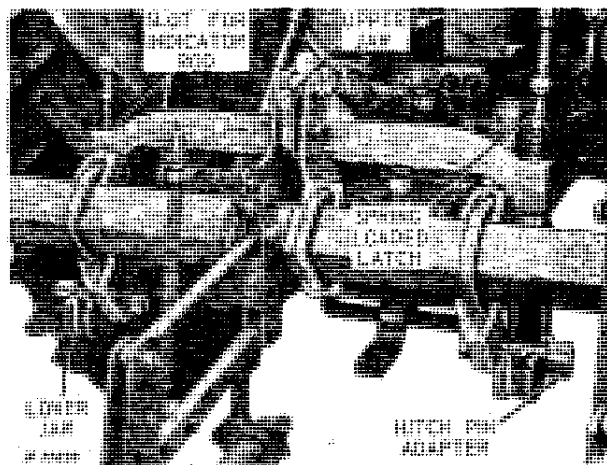
Turn lift link leveling screw or adjusting cranks if necessary to align draft links with hitch pins. On tractors equipped with telescoping draft links, pull lock pins and extend links to make connection easier.

Attach one draft link at a time. Fasten links to hitch pins with spring locking pins.

Release center link from storage position and attach center link to cultivator hitch mast. Lengthen or shorten center link as necessary to reach cultivator hitch mast. After center link is attached to hitch mast reposition center link to length recommended on page 3.

NOTE: If draft links were extended, weight of cultivator should telescope draft links to their original position when cultivator is raised.

TRACTOR WITH QUIK COUPLER



Place cultivator on level surface. Slip hitch pin adapters over cultivator hitch pins and fasten with spring pins.

Pull up spring-loaded latch rods so lower jaws will automatically lock in place when cultivator and quik coupler are raised.

Lower tractor 3-point hitch so quik coupler upper jaw will pass under spacer in cultivator hitch mast and lower jaws will slip under cultivator hitch pin adapters.

Back tractor until quik coupler jaws slip into position. Raise the 3-point hitch to seat the cultivator hitch points in the quik coupler jaws.

Make sure spring-loaded latches are properly locked. Indicator rods should protrude through slots in quik coupler frame next to the latch rods.

On the 5020 Tractor with Category 3 Quik-Coupler see your tractor operator's manual to convert to Category 2 Quik-Coupler.

DETACHING CULTIVATOR

TRACTOR WITHOUT QUIK COUPLER

To remove cultivator from tractor, lower cultivator on a level surface. Remove center link first, then remove draft links.

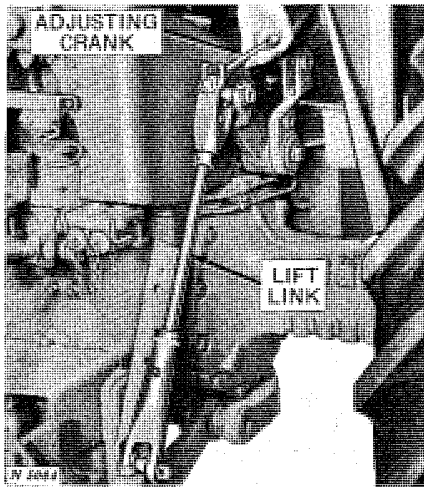
6 Operation

DETACHING CULTIVATOR—Continued

TRACTOR WITH QUIK COUPLER

To remove cultivator from tractor with quik coupler, lower cultivator on a level surface. Push latch rods down and back to lock latches in the released position. Lower 3-point hitch until quik coupler jaws clear cultivator hitch mast and hitch pin adapters. Drive tractor away from cultivator.

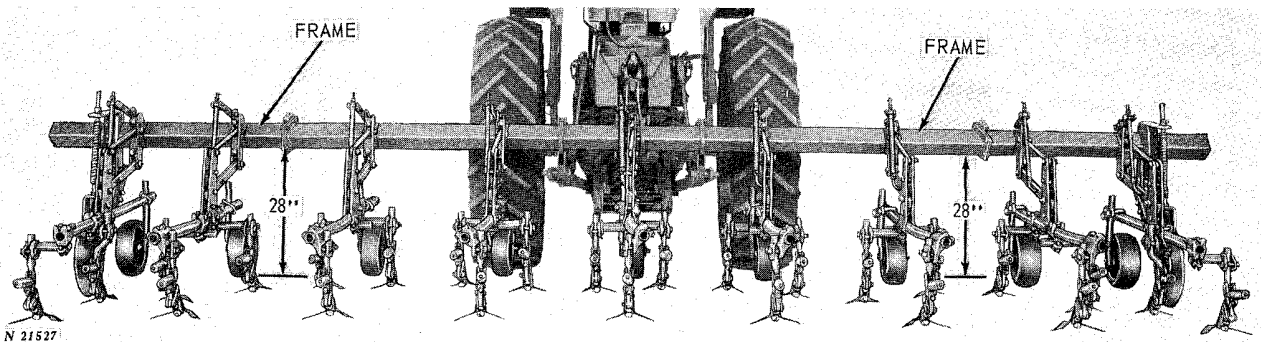
LEVELING CULTIVATOR FRAME



The cultivator works best when the frame is level and the hitch mast is perpendicular to the ground. The bottom of the frame should be approximately 28 inches from the ground when cultivating.

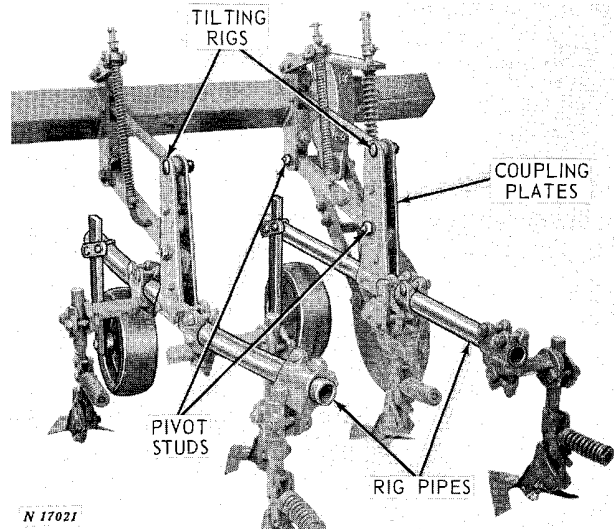
To level the cultivator, turn the adjusting crank on lift links until both ends of the cultivator frame are the same distance from the ground or parallel to the tractor axle.

When cultivating, the hitch mast should be perpendicular to the ground. Adjust the center link to bring hitch mast to a vertical position.



IMPORTANT: Frame bar must be positioned approximately 28 inches above ground level in operating position to obtain maximum efficiency and service from cultivator.

TILTING RIG PIPES



Rig pipes should be tilted 1/4-inch higher at the front than at the rear so rig pipes ride level during cultivation. To tilt rig pipes, loosen the top bolt in the rig coupling plates. Make sure all rig pipes are at the same level and tilt before tightening the top bolt.

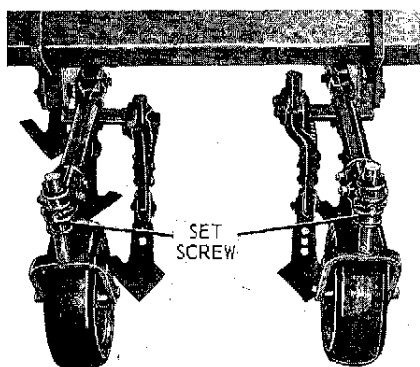
The rig coupler plates should be tight enough so rig pipes do not sway excessively, but loose enough so rig pipes will "float" with the level of the ground.

Loosen the pivot stud nuts and turn the pivot studs to loosen or tighten the coupler plates. After adjusting pivot studs, tighten the pivot stud nuts.

SETTING DEPTH OF CULTIVATION

The cultivator gauge wheels determine the cultivating depth. All gauge wheels should be set at the same level to insure uniform cultivating depth.

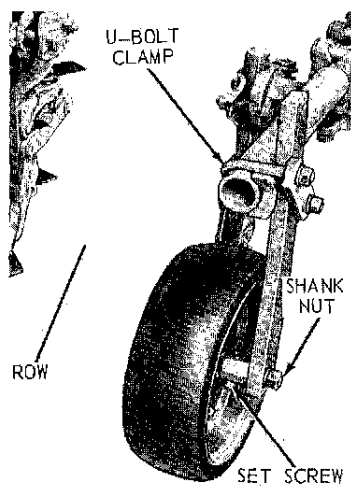
CASTERING GAUGE WHEELS



N 9984

Loosen the set screw and adjust the cultivating depth by setting the gauge wheels 1 to 2 inches above the floor or ground.

RIGID GAUGE WHEEL



N 15849

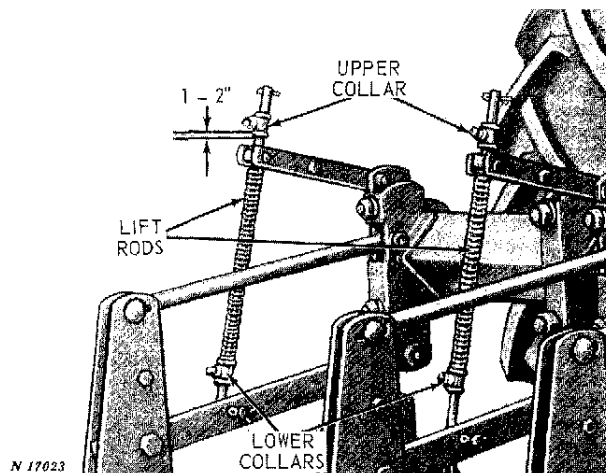
Rigid Gauge Wheel

Loosen nuts on U-bolt clamps to position anti-friction bearing gauge wheels. Make sure gauge wheel shanks are vertical before tightening U-bolt nuts.

Periodically check gauge wheel set screws and shank nuts. Make sure they are tight.

IMPORTANT: Make sure set screw is in bearing shank groove (see page 36).

ADJUSTING RIG LIFT ROD COLLARS



N 17023

When cultivating, there should be one to two inches of space between the upper collars and the swivels to allow rigs to "float" with the contour of the ground.

If soil conditions prevent sweeps from penetrating to the desired depth, raise the lower collars to compress the lift rod springs. This puts more pressure on the sweeps. If no down pressure is desired, allow lower collars to slide to the bottom of the lift rods. Turn collars so set screws face away from lower rig links and tighten set screw.

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