RG2, RG4, RG6, RG430 AND RG630 ROW-CROP CULTIVATORS

OPERATORS MANUAL
RG2, RG4, RG6, RG430 AND RG630 ROW-CROP CULTIVATORS

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ENGLISH
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John Deere RG2 Cultivator with regular spring-trip shanks on John Deere 2010 Tractor

John Deere RG4 Cultivator with No. 28 six-row attachment
John Deere RG430 Cultivator with regular spring-trip shanks on John Deere 3010 Tractor.

John Deere RG430 Cultivator with double spring-tooth shanks on John Deere 1010 Tractor.
Specifications

Tractor required

RG2 and RG430 Cultivators - John Deere 520, 530, 620, 630, 720, 730, 1010, 1020, 2010, 2020, 2510, 3010, 3020, 4010, 4020, and comparable row-crop tractors with category 1 or 2, three-point hitch.

NOTE: If 3010 Row-Crop Tractor with tire sizes other than 13.9 x 36 is used on RG430 Cultivator for 22 or 24-inch rows, tractor must be equipped with a Quick-Coupler.


RG4 Cultivator Only - John Deere 1010 Row-Crop Tractor with category 1, three-point hitch.

NOTE: Only 13.6 x 28 and 13.9 x 36 rear tires are recommended for 1010 Row-Crop Tractor with RG4 Cultivator.

RG6 Cultivator - John Deere 3010, 3020, 4010, 4020, and comparable row-crop tractors with category 2, three-point hitch.

Row spacing

RG2 and RG4 Cultivators - 28 to 42 inches.

RG6 Cultivator - 28 to 40 inches.

RG430 and RG630 Cultivators - 20 to 30 inches.

Bar size

4-inch square tube

RG2 - 6 feet long

RG4 - 13 feet, 8 inches long

RG6 - 19 feet, 4 inches long

RG430 - 10 feet, 6 inches long

RG630 - 16 feet, 2 inches long

Gauge wheels

Rigid (regular)

Castering (optional)

Rigid Anti-Friction (Optional)

Weight (Approx.)

RG2 Cultivator - 720 pounds

RG430 Cultivator - 1100 pounds

RG4 Cultivator - 1420 pounds

RG630 Cultivator - 1445 pounds

RG6 Cultivator - 2260 pounds

RG4 Cultivator with No. 28 Attachment - 1645 pounds

Rig equipment

RG2, RG4, and RG6 Cultivators

Regular spring-trip shanks with universal sweeps.

Quick-adjustable spring-trip shanks with universal sweeps.

Single spring-tooth shanks with double pointed shovels.

Heavy-duty single spring-tooth shanks with single pointed shovels.

Double spring-tooth shanks with single pointed shovels.

Friction-trip shanks with universal sweeps.

11 used on RG2 Cultivator

21 used on RG4 Cultivator

31 used on RG6 Cultivator
8 specifications

**RG430 and RG630 Cultivators**

Regular spring-trip shanks with universal sweeps.
Quick-adjustable spring-trip shanks with universal sweeps.
Double spring-tooth shanks with single pointed shovels.
Friction-trip shanks with universal sweeps.

13 used on RG430 Cultivator
19 used on RG630 Cultivator

**Sweeps and shovels**

A wide variety of types and sizes available. See pages 51 and 52.

**Special equipment**

**All Cultivators**

- Rig Mounted Shields
- Disk Hillers
- Rotary Hoe
- Hooded Shields
- Weeding Knife Shanks
- Heavy Duty Double Spring Teeth

**RG2, RG4, and RG430 Only**

Category 1 hitch pins

**RG4 Only**

No. 28 six-row attachment
Outer spring mounted rolling coulter (use one at each end of cultivator with or without center coulter)
No. 18 Unit Planter

**RG430 Only**

No. 8 shank attachment
(8 additional shanks)

**RG430 and RG630 Only**

Rig bars, clamps and tool equipment for beet, bean and vegetable cultivation. See pages 47 to 50.

**RG6 Only**

Center spring mounted rolling coulter

**RG2, RG4, and RG6 Only**

Spread arch

*(Specifications and design subject to change without notice.)*
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.

When RG4 Cultivator with No. 28 six-row attachment is used on the 2010 Tractor, use only 13.9 x 36 4-ply or 13.9 x 36 6-ply tires on rear wheels. Inflate 4-ply tires to 14 psi, 6-ply tires to 20 psi.

Sway blocks
Place sway blocks on 1020, 2010, 2020, 2510, 3010, 3020, 4010, or 4020 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 link
Set the lift links on 1010, 1020, 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 RG2, RG4, or RG6 Cultivator is used on 2510, 3010, 3020, 4010, or 4020 Tractor, adjust the length of the lift links to 29 inches and the center link to 26 inches.
operation

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

Make sure collars on lift links are tight against the adjusting cranks.

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

NOTE: The 3010 Tractor with tires other than 13.9 x 36 size must be equipped with Quick-Coupler when used with RG430 Cultivator in 22 or 24-inch rows.

Load and depth sensitivity

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

<table>
<thead>
<tr>
<th>RG4 CULTIVATOR</th>
<th>1010</th>
<th>520,530, 2010</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>*280 lbs.</td>
<td>425 lbs.</td>
<td>-</td>
</tr>
<tr>
<td>Dual</td>
<td>*280 lbs.</td>
<td>340 lbs.</td>
<td>-</td>
</tr>
<tr>
<td>Adjustable axle</td>
<td>280 lbs.</td>
<td>170 lbs.</td>
<td>300 lbs.</td>
</tr>
</tbody>
</table>

* Add 50 lbs. fluid to each front tire.

RG4 with 28 six-row attachment
Add 340 lbs. on 1010 Tractor, 200 lbs. on 3010 or 3020 Row-Crop Tractor with single or dual front wheels.

RG430 Cultivator Add 300 lbs. on 1010 Tractor, 100 lbs. on 1020 Tractor.

RG630 Cultivator Add 300 lbs. on 2020 Tractor, 170 lbs. on 2010 Tractor.

RG6 CULTIVATOR

<table>
<thead>
<tr>
<th>3010</th>
<th>3020</th>
<th>4010</th>
<th>4020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>950 lbs.</td>
<td>510 lbs.</td>
<td>510 lbs.</td>
</tr>
<tr>
<td>Dual</td>
<td>850 lbs.</td>
<td>-</td>
<td>425 lbs.</td>
</tr>
<tr>
<td>Adjustable axle</td>
<td>510 lbs.</td>
<td>510 lbs.</td>
<td>170 lbs.</td>
</tr>
</tbody>
</table>
The cultivator is raised and lowered by moving the rockshaft control lever. Set the depth stop on the rockshaft control lever 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.

**Attaching cultivator to tractor without quick coupler**

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

Attach left-hand draft link first. Insert pin and lock. Attach right-hand link in the same manner. Turn leveling screw if necessary to line up draft links with hitch pins. Lift lock pins and extend telescoping draft link shafts to make connection easier.

Release center link and attach to hitch mast. Lengthen or shorten center link for easier attaching. To replace lock pins in draft links, raise cultivator and allow cultivator weight to telescope draft links to operating position.

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