

Series 40, 41 and 42 Four-Row Cultivators



JOHN DEERE

OPERATORS MANUAL Series 40, 41 and 42 Four-Row Cultivators

OMN45959 (01SEP69) English

(FOR "530," "630," "730," "520,"
"720," "50," "60" AND "70" SERIES
ROW-CROP TRACTORS AND TRACTORS
WITH ADJUSTABLE FRONT AXLE)

OMN45959 (01SEP69)

LITHO IN U.S.A.
ENGLISH



TO THE PURCHASER

Your new 40, 41, or 42 Series Cultivator was built to rigid manufacturing standards. Material and workmanship are the best. Precision production methods, and accurately controlled heat-treating assure maximum strength and long life for every part.

This manual has been carefully prepared and illustrated so that you may make the necessary adjustments for adapting your cultivator to work properly in all types of field cultivation.

Study this manual carefully. Keep it handy, in a safe place, for future reference.



When in need of parts, furnish your John Deere dealer the part number, description, and the information which should be recorded at the bottom of this page, when the cultivator is delivered. He can give you prompt and efficient service.

**JOHN DEERE 40, 41, OR 42 SERIES FOUR-ROW
CULTIVATOR**

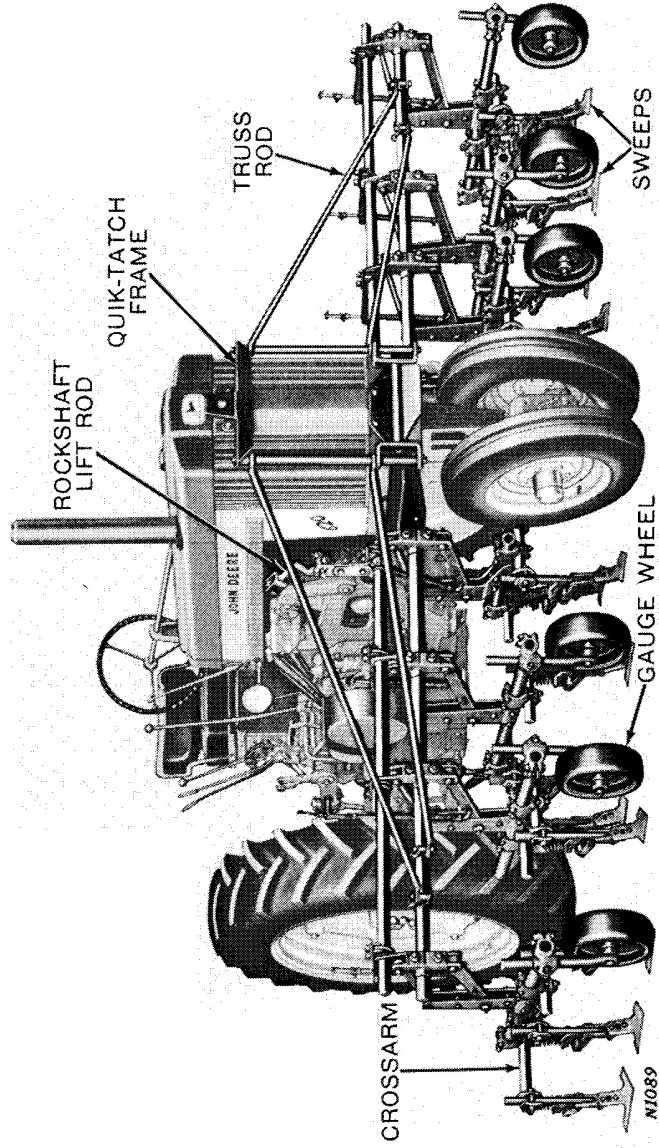
No. of Cultivator.....

Date Purchased..... 19..

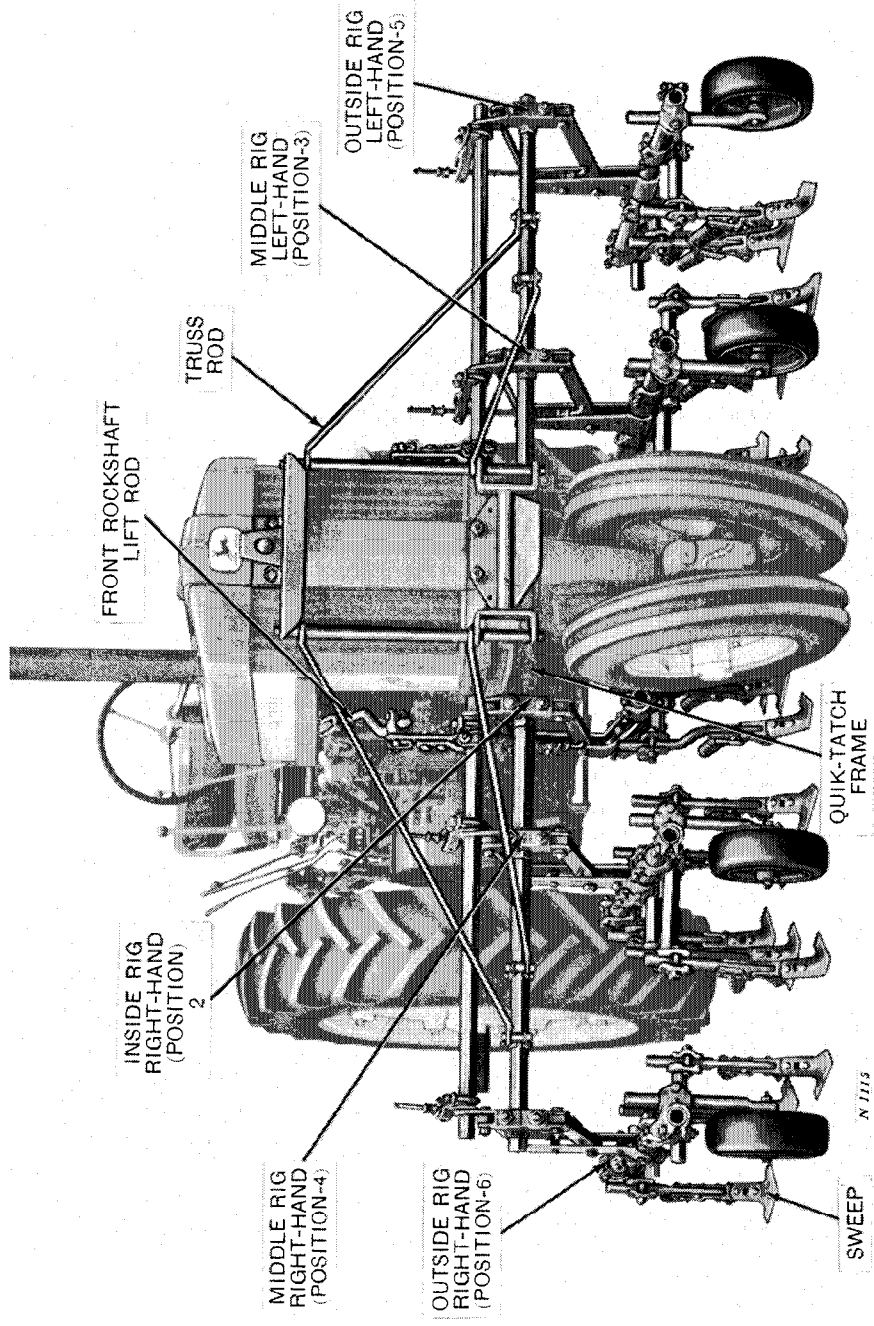
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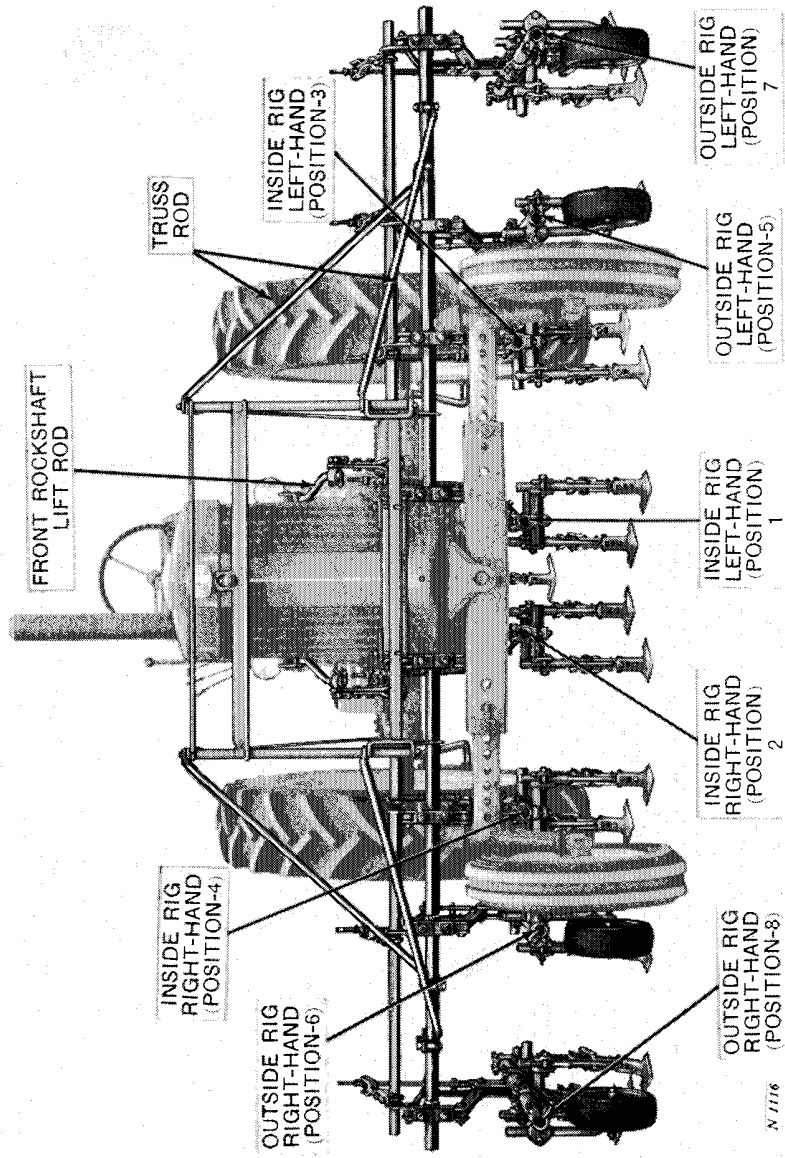
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40-F Cultivator with RE-8 Shank Equipment



41-F Cultivator with RE-6 Shank Equipment



42-F Cultivator with RE-8 Shank Equipment

SPECIFICATIONS

CULTIVATOR IDENTIFICATION

Front and Rear Rockshaft Operation

Cultivators that have an "F" suffix on the cultivator number (40-F) are for use on tractors equipped with a front-mounted rockshaft. These cultivators can be used with either single-control rockshafts (one remote cylinder) or dual-control rockshafts (two remote cylinders).

The single-control rockshaft operates the front rigs as a unit independent of the rear rigs.

The dual-control rockshaft operates the left and right front rigs independent of each other and independent of the rear rigs.

Cultivators that have an "R" suffix on the cultivator number (40-R) are for use on tractors that do not have a front-mounted rockshaft. The tractor rear rockshaft operates both the front and rear rigs of the cultivator as a unit by use of power lift pipes.

40 Series Cultivators

These cultivators are intended for use on row-crop tractors with tri-

cycle-type front wheels. They can be adjusted for 36-inch to 42-inch rows. A wide variety of spring-trip shank and spring-tooth rig equipment is available for these cultivators.

41 Series Cultivators

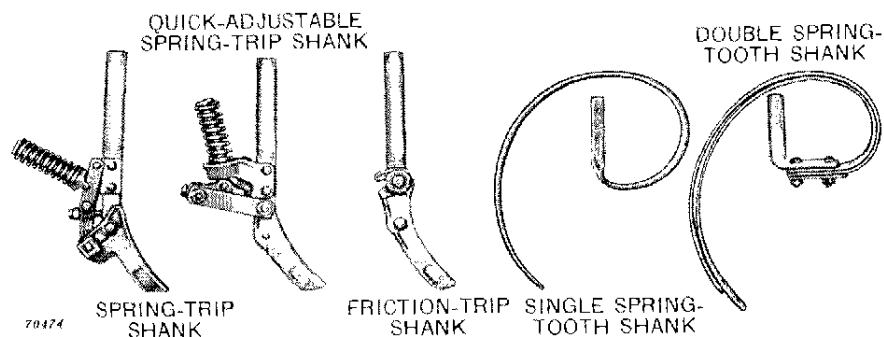
These cultivators are very much like the 40 Series Cultivators, except they have special features for adapting to 28-inch rows. They can be used on the "530," "630," "520," "620," "50," and "60" Tractors.

The 41 Series **cannot** be mounted on "730," "720," or "70" Tractors. RE-17 rig equipment is used on these cultivators.

42 Series Cultivators

42 Series Cultivators are for use on tractors having an adjustable front axle. They will handle 36-inch to 42-inch rows. The same rig equipment used with 40 Series Cultivators is available for these cultivators.

The front wheel tread should be set approximately 4 inches narrower than the row spacing to provide proper clearance at the gauge wheels and also reduce the turning radius at the end of the rows.



FRONT RIG EQUIPMENT

The designation **RE** means Rig Equipment, and listed below by **RE** numbers are all rig combinations for the 40, 41, and 42 Series Cultivators:

RE No.	Description	Cultivators Used on
RE-6	21 Regular Spring-Trip Shanks	40
RE-7	18 Regular Spring-Trip Shanks	40-42
RE-8	18 Quick-Adjustable Spring-Trip Shanks	40-42
RE-9	21 Single Spring-Tooth Shanks	40
RE-10	18 Double Spring-Tooth Shanks	40-42
RE-11	21 Quick-Adjustable Spring-Trip Shanks	40
RE-12	18 Friction-Trip Shanks	40-42
RE-17	21 Regular Spring-Trip Shanks	41
RE-18	18 Single Spring-Tooth Shanks	40-42

Rig Positions

Rig positions are identified by numbers, as shown in identification views, pages 3 through 4, in order to quickly locate the position of each rig in relation to the tractor. Rigs are numbered from the center of the cultivator out, to right and left. Odd numbers (1, 3, 5, and 7) refer to rigs on the left side of the cultivator; even numbers (2, 4, 6, and 8) refer to rigs on the right side of the cultivator.

LOCATION REFERENCES

Right-hand and left-hand references are determined by standing at the rear of the cultivator and facing in the direction of travel.

(Specifications and design subject to change without notice)

REAR RIG EQUIPMENT

The various series of rear rigs are identified below. Within each series the rigs are numbered to indicate the shank equipment used.

Rear rig numbers ending in 2 have spring-trip shanks.

Rear rig numbers ending in 3 have quick-adjustable spring-trip shanks.

Rear rig numbers ending in 4 have single spring teeth.

Rear rig numbers ending in 5 have friction-trip shanks.

For example, a 110 Series rear rig with quick-adjustable spring-trip shanks is identified as a No. 113 rear rig.

The following Rear Rigs are available:**For Tractors Equipped with 3-Point Hitch**

No.	Center	Outside
50A	Bar	(Tool Bar Type)
110	Center Rear Bar	Parallel
130	Center Rear Bar	Straight
150	Center Rear Bar	Offset

For Tractors Not Equipped with 3-Point Hitch

120	Drawbar Mounted	Parallel
140	Drawbar Mounted	Straight
160	Drawbar Mounted	Offset

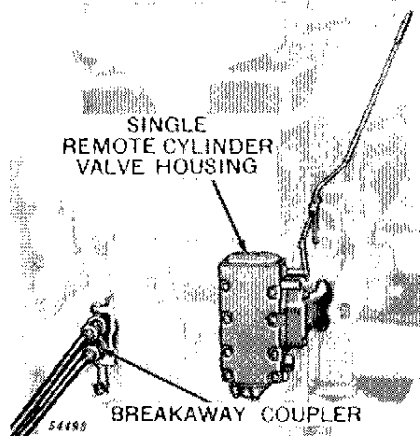
For All Tractors

170	None	Parallel
180	None	Straight
190	None	Offset

OPERATION

TRACTORS WITH FRONT-MOUNTED ROCKSHAFTS

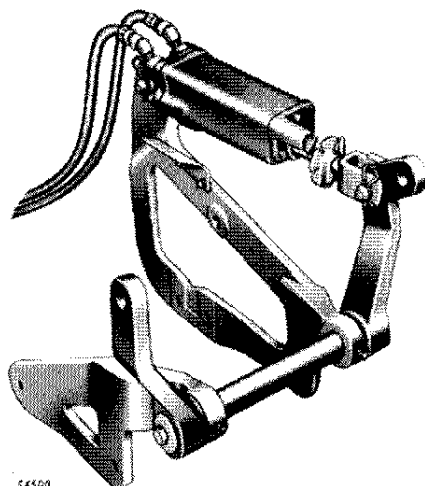
The tractor may be equipped with a single control "solid" rockshaft or a dual control "split" rockshaft.



Single Remote Cylinder Valve Housing

Single Control "Solid" Front-Mounted Rockshaft

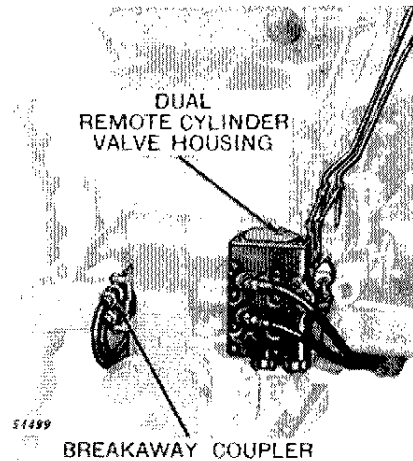
A single remote cylinder operating the front-mounted rockshaft raises, lowers, and can apply down pressure on the front rigs independent of the rear rigs.



"Solid" Front-Mounted Rockshaft

The rear rigs are operated by the tractor rear rockshaft. Their lifting can be delayed. The front rigs can be raised, and then as the tractor clears the row, the rear rigs can be raised. In this way it is possible to use the rear rigs right up to the end of the row or to the edge of a grass waterway or ditch.

Push the control levers forward to lower the rigs and pull them to the rear to raise the rigs.



Dual Remote Cylinder Valve Housing

Dual Control "Split" Front-Mounted Rockshaft

When the tractor has a "split" front-mounted rockshaft, two remote cylinders are used to operate the right- and left-hand rigs of the cultivator independently. This is a big advantage when finishing out point rows, the left-hand front rigs can be raised and the right-hand front rigs left in the ground to finish the row—or vice versa.

Each cylinder has its own control lever, the inner lever operates the left-hand front rigs and the outer lever operates the right-hand front rigs. The rigs can be operated independently or simultaneously. Down pressure can be applied to both sets of rigs by the double-acting cylinders.

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