

**4220 SERIES ROW-CROP
CULTIVATOR FOR JOHN DEERE
MODEL "40" TRACTOR WITH
ADJUSTABLE FRONT AXLE**



JOHN DEERE

OPERATORS MANUAL

4220 SERIES ROW-CROP CULTIVATOR FOR
JOHN DEERE MODEL "40" TRACTOR WITH
ADJUSTABLE FRONT AXLE

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YOUR NEW CULTIVATOR

Behind your new cultivator is an organization that has designed and built farm implements for over 115 years. This cultivator was built in a John Deere Factory by experienced men, thus assuring the utmost in design, high-grade workmanship, and thorough inspection, so essential to the production of good cultivators.

High quality materials, 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. These adjustments such as row spacing and proper leveling of shovels or sweeps are fully covered in this manual. Study the manual carefully and make it your guide.

Occasionally your cultivator may need new parts to replace worn parts or emergency service may be required that is not covered in this manual. If so, we suggest that you take advantage of the facilities offered by your John Deere dealer; which assures you of genuine John Deere parts or other prompt "know-how" service in the field or shop.

If you will furnish your 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 4220 SERIES ROW-CROP
CULTIVATOR**

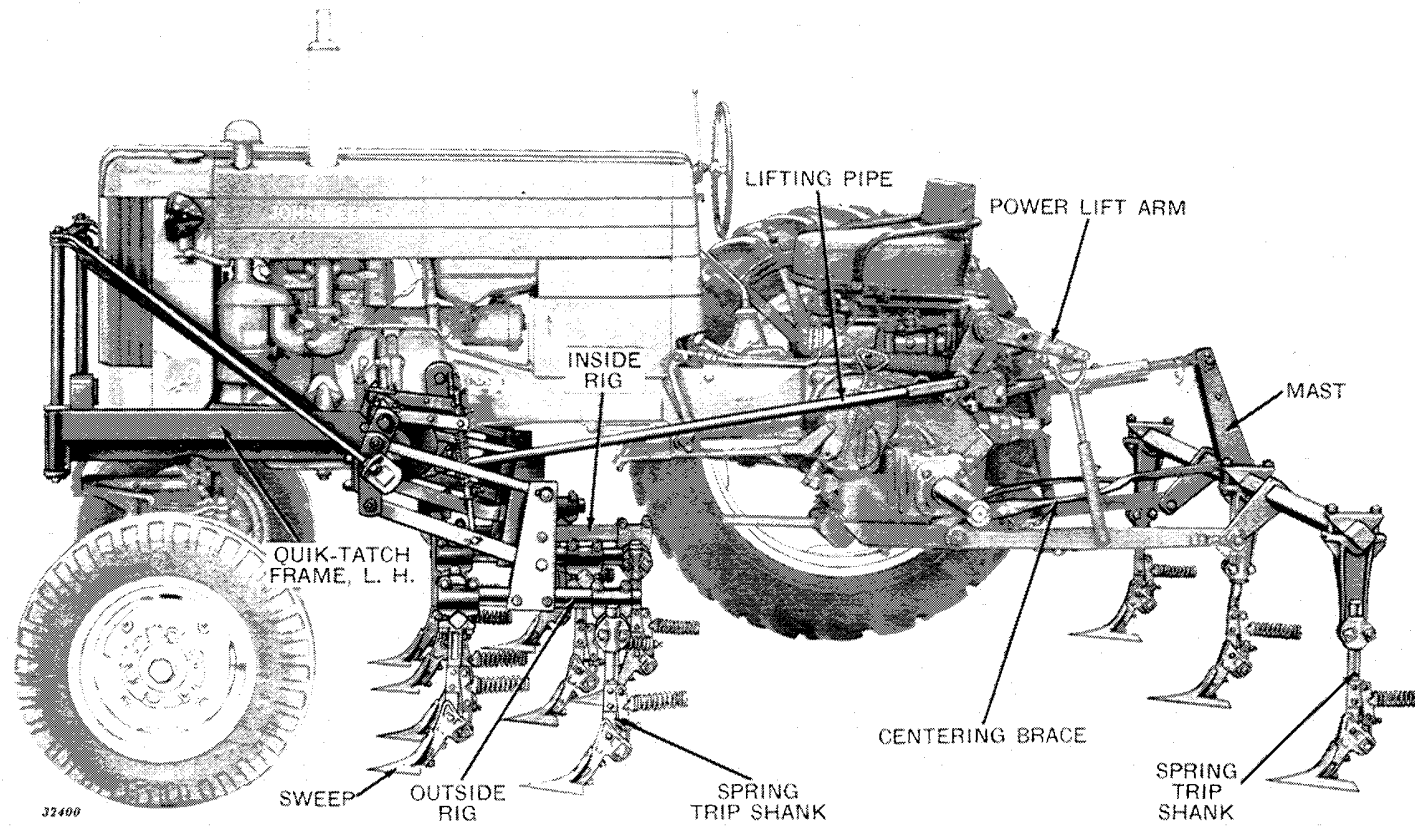
No. of Cultivator

Date Purchased **19**.....

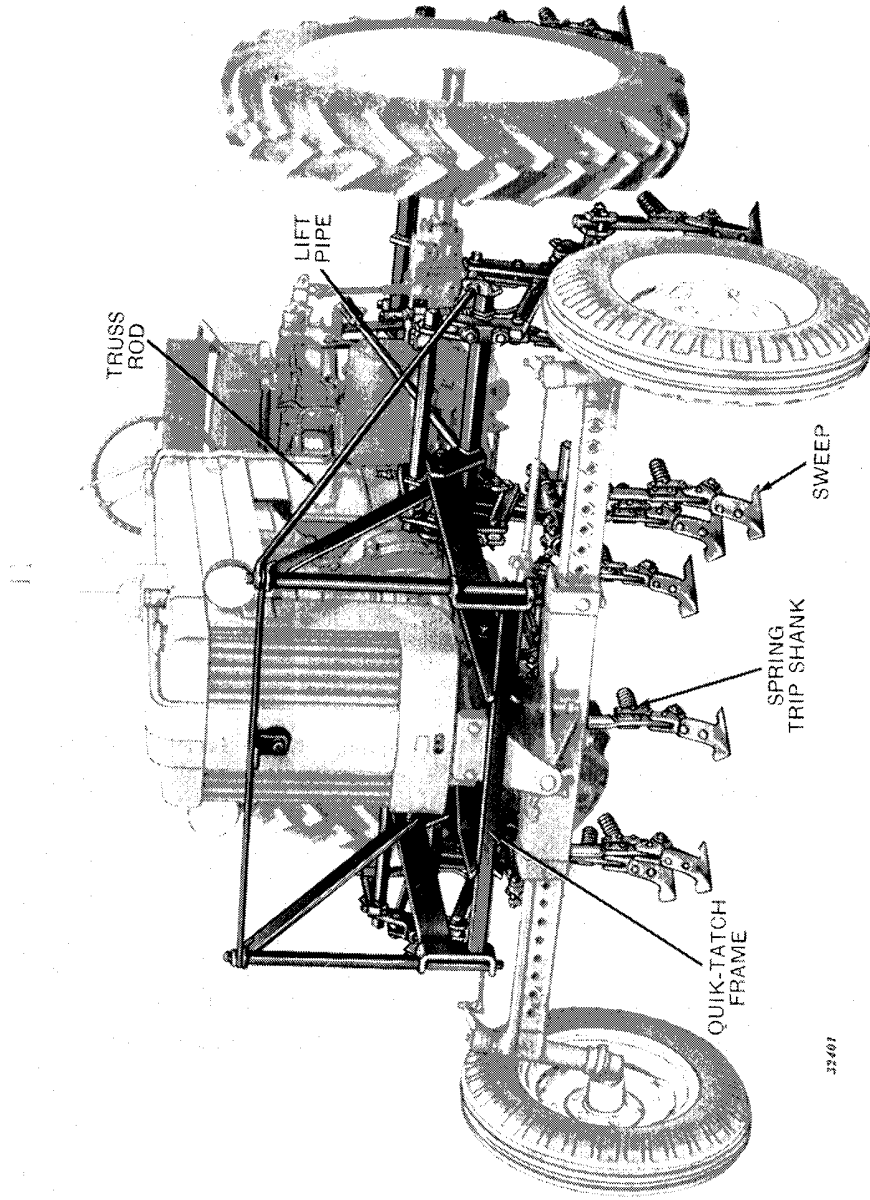
(To be filled in by Purchaser)

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**Figure 1—John Deere 4222 Power Lift Row-Crop Cultivator
(Tractor Wheel Removed to Show Cultivator Detail)**



32401

Figure 2—Three-Quarter Left Front View—John Deere 4222 Power Lift Row-Crop Cultivator

SPECIFICATIONS

All 4220 Series Cultivators listed below have four front rigs.

Type of Shanks and Number Used

Number of Cultivator	Front Rigs	Rear Rigs	Total Shovels or Sweeps	Row Spacing
4222	(8 Spring Trip 1-3/8" Shanks	(3 Spring Trip 1-3/8" Shanks	11	28"-42"
4223	(8 Quik Adj. Spring Trip 1-3/8" Shanks	(3 Quik Adj. Spring Trip 1-3/8" Shanks	11	28"-42"
4224	(8 Double Spring Teeth	(6 Single Spring Teeth	14	28"-42"
4225	(8 Double Spring Teeth	(3 Quik Adj. Spring Trip 1-3/8" Shanks	11	28"-42"
4226	(8 Single Spring Teeth	(6 Single Spring Teeth	14	28"-42"
4227	(4 Spring Trip Shanks 1-3/8", 4 Single Spring Teeth	(6 Single Spring Teeth	14	28"-42"
4228	(8 Spring Trip 1-3/8 Shanks	(6 Single Spring Teeth	14	28"-42"

All 4220 Series Cultivators are erected at the factory for 40-inch row spacing. To adjust rigs for other row spacing, see instructions on page 18.

NOTE: Fenders can be used on the tractor with the 4220 Series Cultivators.

OPERATION

The John Deere 4220 Series Cultivator is designed for use with the John Deere Model "40" Tractor.

With the wide variety of clamps, shanks, shovels or sweeps available, the cultivator will do good work in all types of soil and over a wide range of field conditions. The instructions in this manual cover the necessary adjustments for the best field results. A correctly adjusted cultivator pulls easily, penetrates uniformly, and kills weeds properly.

PREPARING THE TRACTOR.

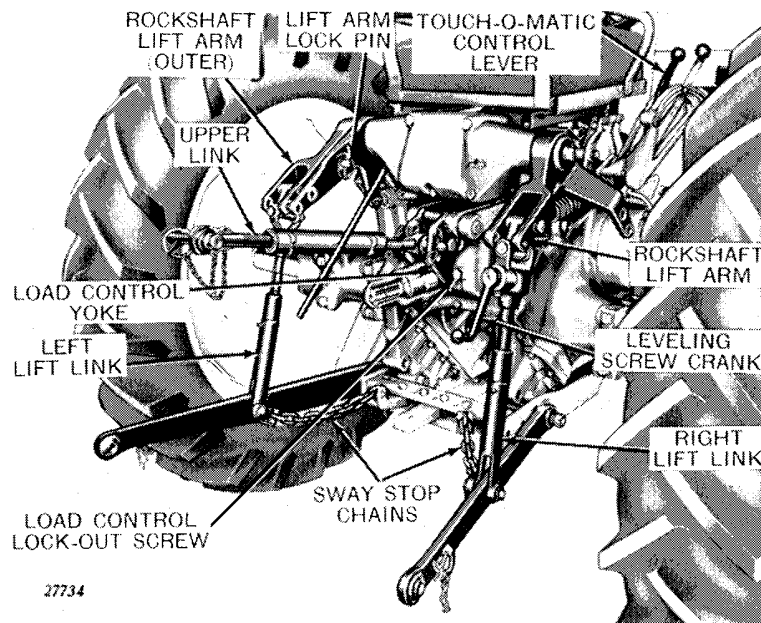


Figure 3

The rear wheels of the tractor should be 48 to 80 inches apart, center to center of tires, depending upon the width of the row.

Pin upper link to center hole in load control yoke. For light draft conditions use bottom hole. The top hole is used for heavy draft conditions.

Turn in load control lock-out screw so load control yoke will operate.

Pin upper end of lift links to inner holes in rockshaft lift arms.

Move the drawbar to the innermost position.

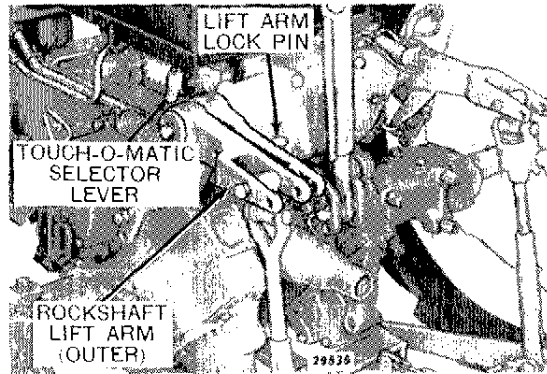
ROCKSHAFT LIFT ARMS.

Figure 4—Rockshaft Lift Arms

On Model "40" Tractors the rockshaft lift arms must operate independently.

Shift Touch-O-Matic selector to the rear position as shown. Remove lift arm lock pin so the two cylinders and rockshaft lift arms can be operated as independent units.



LIFTING PIPE.

Both right-hand and left-hand rigs should raise simultaneously.

Disconnect lift rod from lift arm.

Loosen hex nut and thread lift rod in or out to make both sides lift simultaneously.

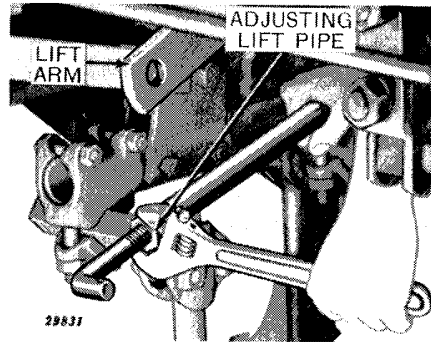


Figure 5—Adjusting Lift Pipe

LEVELING FRONT RIGS

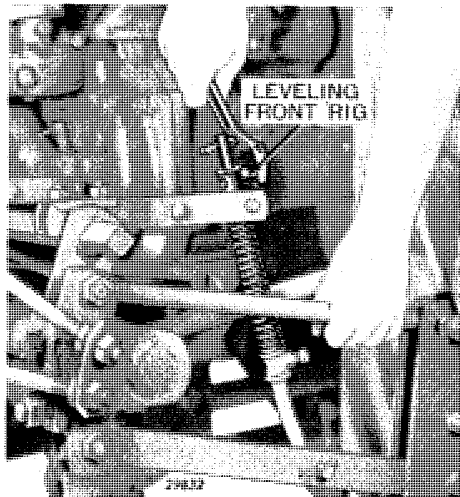


Figure 6—Leveling Front Rig

Each front rig lifting rod is provided with a collar and set screw adjustment so that all rigs will operate at the same level.

TILTING FRONT RIGS.

Tilt the rigs up or down as shown in Figure 7, so all rigs will operate at the same level.

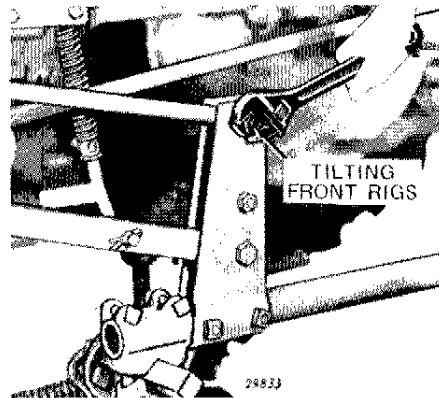


Figure 7—Tilting Front Rigs

RIG CLAMP.

Loosen bolts which hold clamp to rig pipe and turn crossarm on pipe to level sweep with the ground.

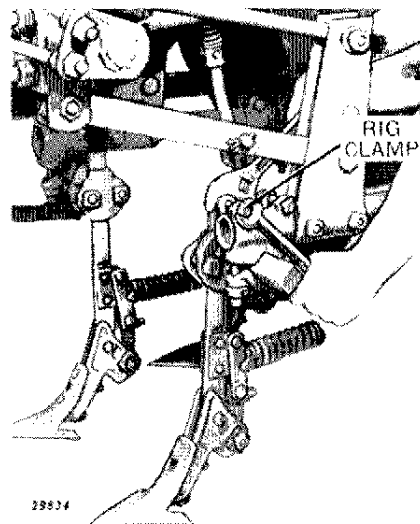


Figure 8—Adjusting Rig Clamp

ADJUSTING CROSSARMS.

Loosen nuts on bolts, Figure 9, which hold crossarm and move crossarm in or out to meet the crop condition. After correct setting is obtained tighten nuts securely.

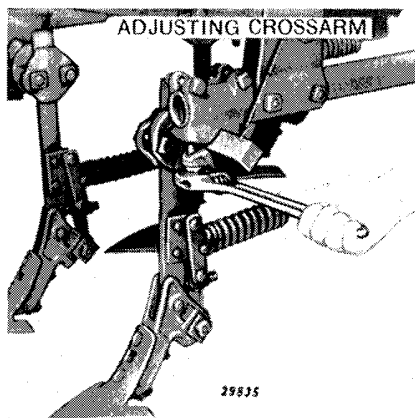


Figure 9—Adjusting Crossarms

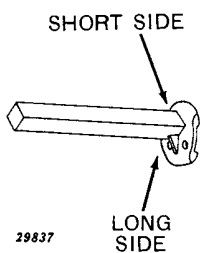


Figure 10—Crossarm

CAUTION: The clamp end of the crossarm is $\frac{3}{4}$ inch longer on one side than on the other. (Note the construction of crossarms.) The crossarm should ordinarily be installed in the clamp so that the longer side of the clamp end is down, thus providing ample vertical adjustment to level shovels or sweeps. (See Figure 10.)

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