

420 SERIES FOUR-ROW CULTIVATOR FOR "50", "60", AND "70" TRACTORS WITH ADJUSTABLE FRONT AXEL



OPERATORS MANUAL

420 SERIES FOUR-ROW CULTIVATOR FOR "50",
"60", AND "70" TRACTORS WITH ADJUSTABLE
FRONT AXLE

OMN33156 (01JAN56) English

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ENGLISH



TO THE PURCHASER

This Operator's Manual has been carefully prepared and illustrated to provide the necessary information regarding installation, operation, and adjustments so that you may obtain maximum service and satisfaction from your new 420 Series Four-Row Cultivator.

STUDY THIS MANUAL CAREFULLY AND KEEP IT IN A SAFE PLACE FOR FUTURE REFERENCE.



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 at the bottom of this page when the cultivator is delivered, he can give you prompt and efficient parts service.

JOHN DEERE 420 SERIES FOUR-ROW CULTIVATOR

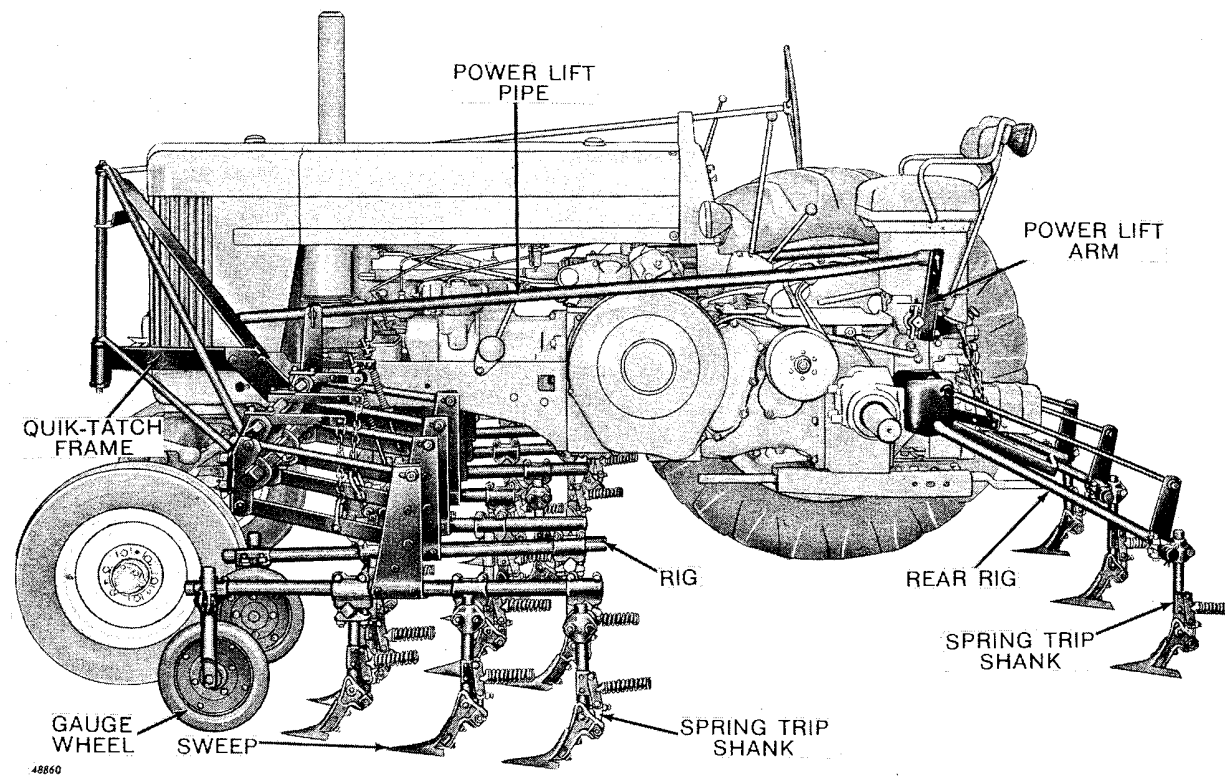
No. of Cultivator

Date Purchased 19

(To be filled in by purchaser)

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**Figure 1—John Deere 422 Power Lift Row-Crop Cultivator
(Tractor Wheel Removed to Show Cultivator Detail)**

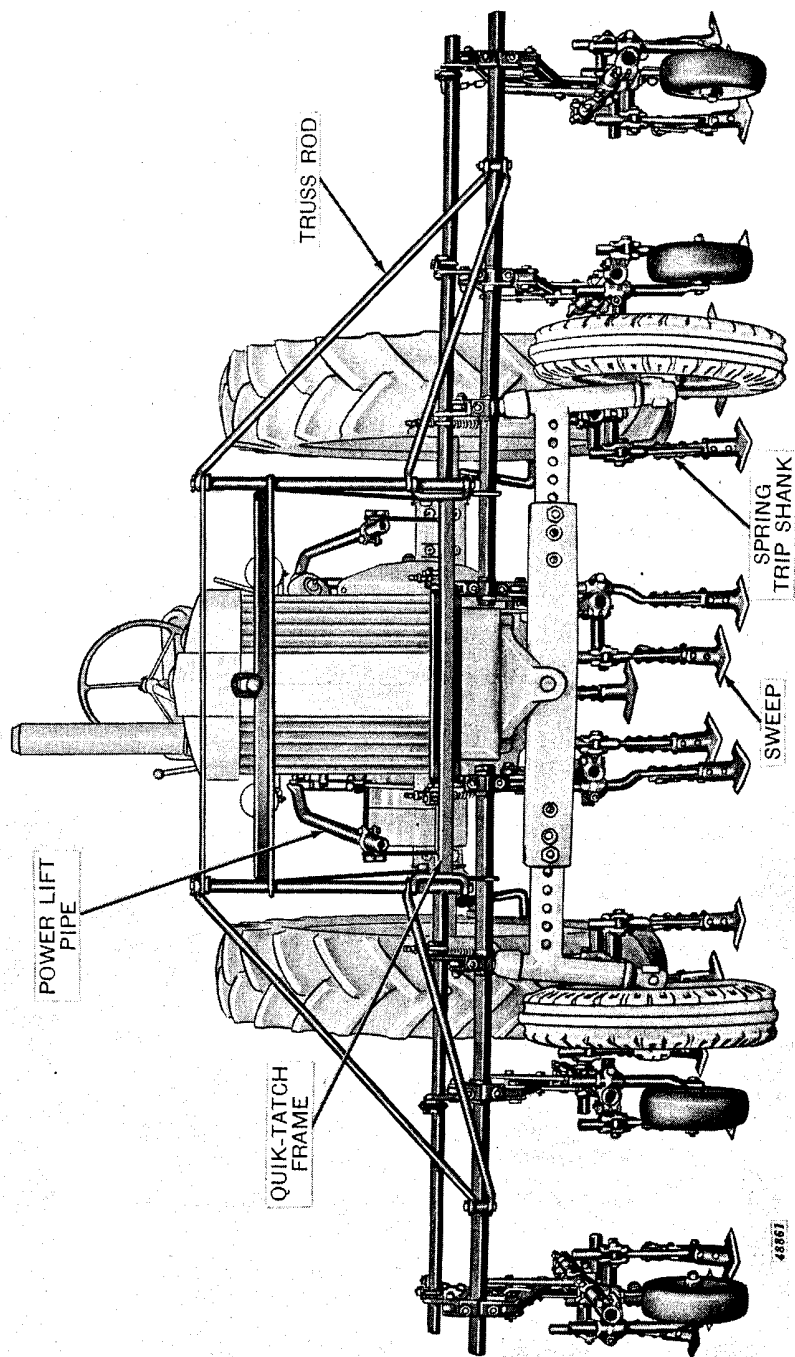


Figure 2—Front View—John Deere 422 Power Lift Row-Crop Cultivator

SPECIFICATIONS

The No. 420 Series Four-Row Quik-Tatch Cultivator is designed for John Deere Models "50," "60," and "70" Tractors having adjustable front axles for 48-inch to 80-inch tread or 56-inch to 80-inch tread.

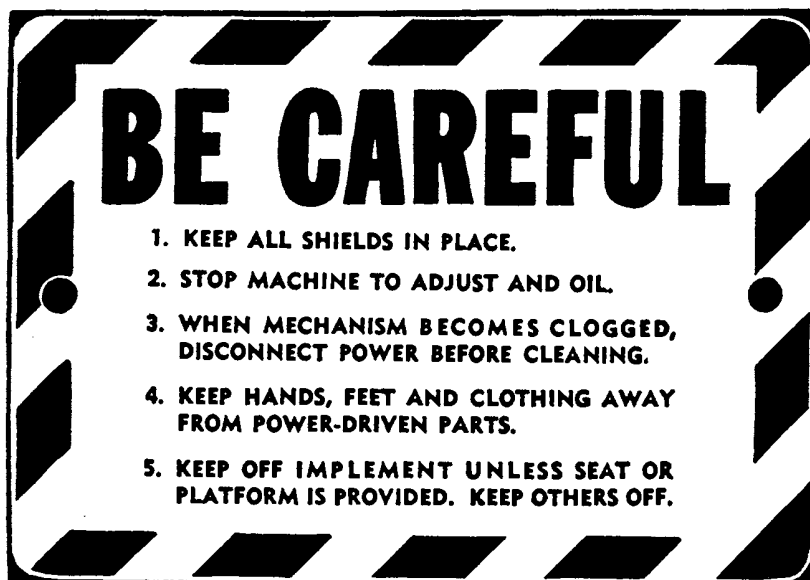
The No. 420 Series Cultivator consists of the following:

Type of Shanks and Number Used

Number of Cultivator	Front Rigs	Rear Rigs	Total Shovels or Sweeps	Row Spacing
422	18 Spring Trip 1-3/8" Shanks	3 Spring Trip 1-3/8" Shanks	21	36"-42"
423	18 Quick Adjustable Spring Trip 1-3/8" Shanks	3 Quick Adjustable Spring Trip 1-3/8" Shanks	21	36"-42"

The No. 420 Series Cultivators are erected at the factory for 40-inch row spacing. To adjust rigs for other row spacing see page 14.

(It is John Deere policy to improve our machines at every opportunity. Consequently, it may be necessary to change design without notice.)



OPERATION

HEIGHT OF LIFT.

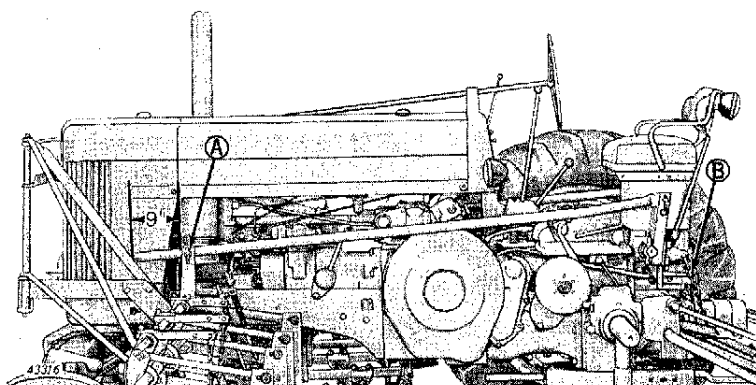


Figure 3—Height of Lift

The position of collar "A," Figure 3, determines the height of lift of cultivator front rigs. The normal setting for collar is 9 inches from front of lifting pipe. Improper setting of collar might cause cultivator rigs to be lifted too high, strike tractor, and be damaged.

DEPTH ADJUSTMENT AND LEVELING FRONT RIGS.

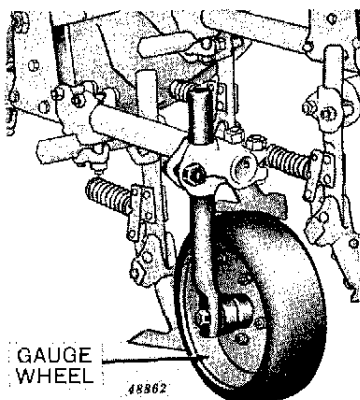


Figure 4—Depth Adjustment

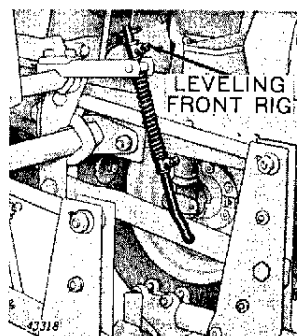


Figure 5—Front Rig Leveling Adjustment

The gauge wheels, Figure 4, control the depth at which outside four front rigs operate. To adjust, loosen clamp bolt and slide shank of gauge wheel up or down. Lifting rods, Figure 5, control the depth at which inside four front rigs operate. Each lifting rod has a collar and set screw that can be adjusted up or down so all rigs will operate at the same level.

The working depth of the rear rigs is controlled by connecting the rear rig lifting bracket to different links in the lifting chain as shown at "B," Figure 3.

TILTING FRONT RIGS.

Tilt the rigs up or down as shown in Figure 6, so all rigs will operate at the same level.

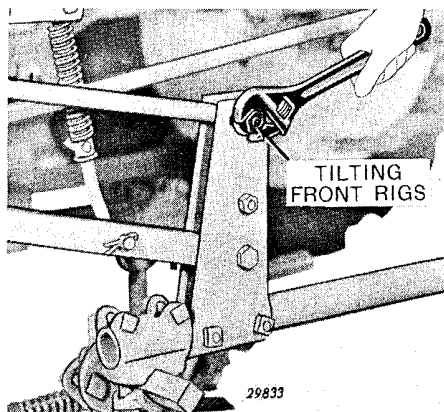


Figure 6—Tilting Front Rigs

RIG CLAMP.

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

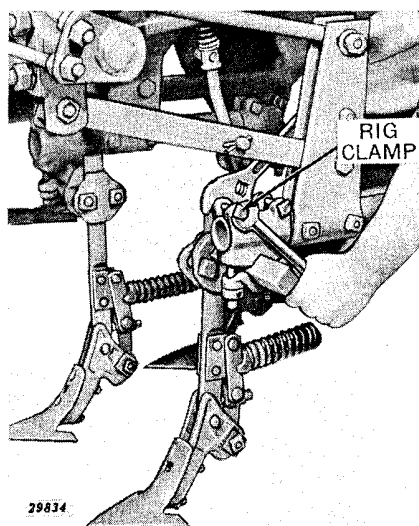


Figure 7—Adjusting Rig Clamp

ADJUSTING CROSSARMS.

Loosen nuts on bolts, Figure 8, which hold crossarm and move crossarm in or out to meet the crop condition. After correct setting is obtained tighten nuts securely.

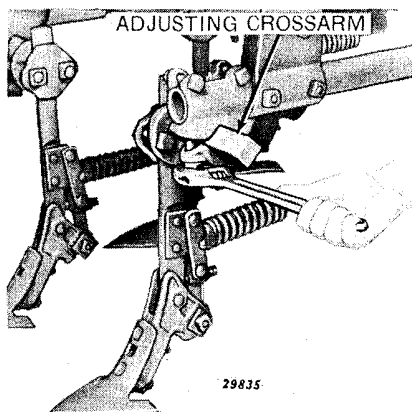


Figure 8—Adjusting Crossarms

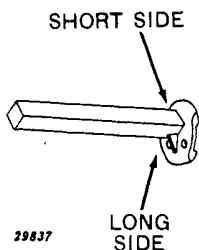


Figure 9—Crossarm

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 9.) However, where offset shanks are used, the longer side of clamp should be up to provide a greater vertical adjustment.

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