4230 SERIES ROW-CROP CULTIVATOR FOR MODEL "40" TWO-ROW UTILITY TRACTOR

JOHN DEERE

OPERATORS MANUAL

4230 SERIES ROW-CROP CULTIVATOR
FOR MODEL "40" TWO-ROW UTILITY
TRACTOR

OMN34255 (01FEB55) English

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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 4230 SERIES ROW-CROP CULTIVATOR

No. of Cultivator .....

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

(To be filled in by Purchaser)

TABLE OF CONTENTS

	Page
IDENTIFICATION OF CULTIVATOR PARTS	2–3
SPECIFICATIONS	4
OPERATION	5–19
Preparing the Tractor	5
Rockshaft Lift Arms	6
Depth Control and Height of Lift	7
Leveling Front Rigs	7
Tilting Front Rigs	8
Rig Clamp	8
Adjusting Crossarms	9
Leveling Shovels or Sweeps	10
Adjusting Shank Vertically	10
Leveling Sweep Wings	10
Spring Trips	11
Attaching Cultivator	12–15
Detaching Cultivator	16–17
Row Spacing	18
Shields	19
EXTRA EQUIPMENT	20
Disk Hillers	20
Knife Attachment	20
MAINTENANCE SUGGESTIONS	22
Shovels and Sweeps	22
Sharpening Shovels and Sweeps	22
Lubrication	22
Rigs	22
Tractor Tire Inflation Pressures	22
ASSEMBLY	23–49
General Instructions	23
Overhead View of Cultivators and Shipping Bundles	24–37
Extra Shipping Bundles	38
Setting Tractor Rear Wheels	39
Coupling Fork and Frame	40
Quik-Tatch Frame	41
Front Rigs	42
Lift Shaft and Lift Pipe	43
Rear Rigs	44
Overhead View of 4232 Cultivator	45
Shields	46
Setting the Cultivator Correctly	48–49

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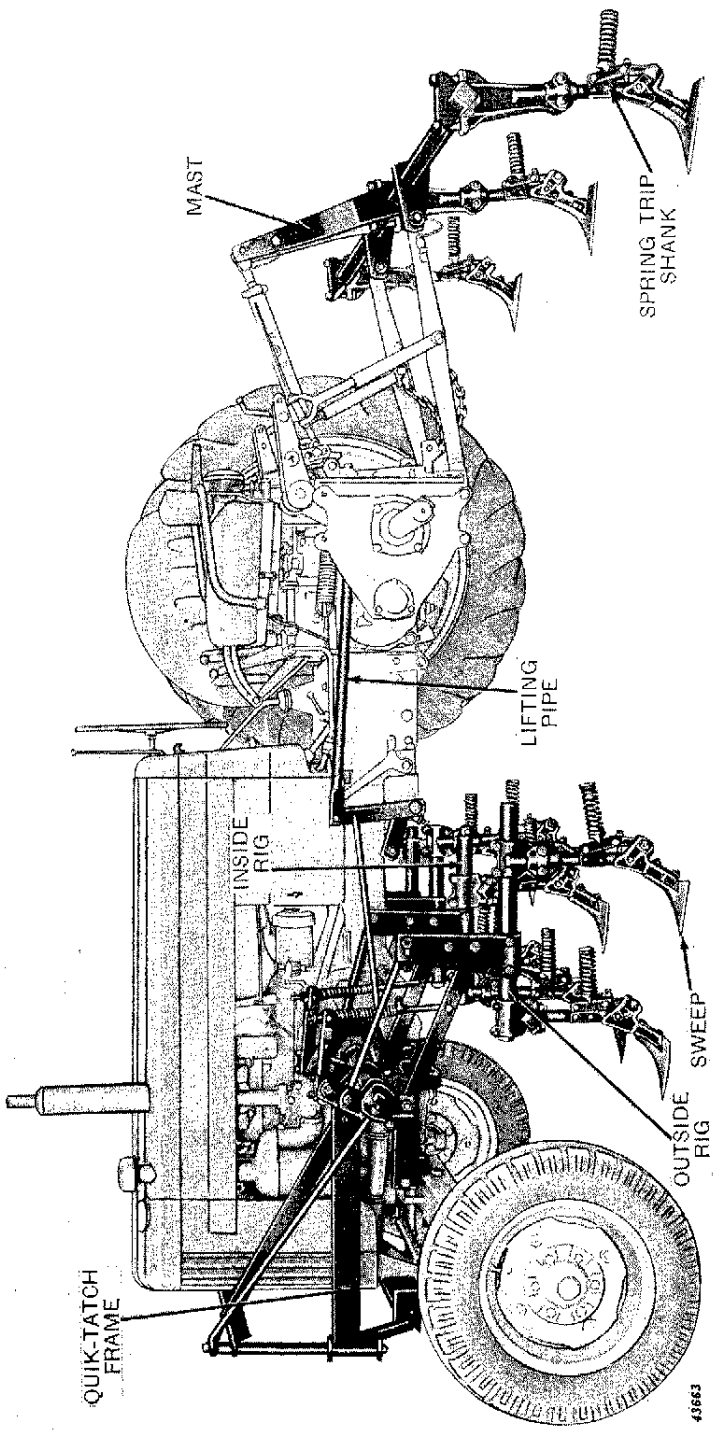

Figure 1—John Deere 4232 Power Lift Row-Crop Cultivator (Tractor Wheel Removed to Show Cultivator Detail)

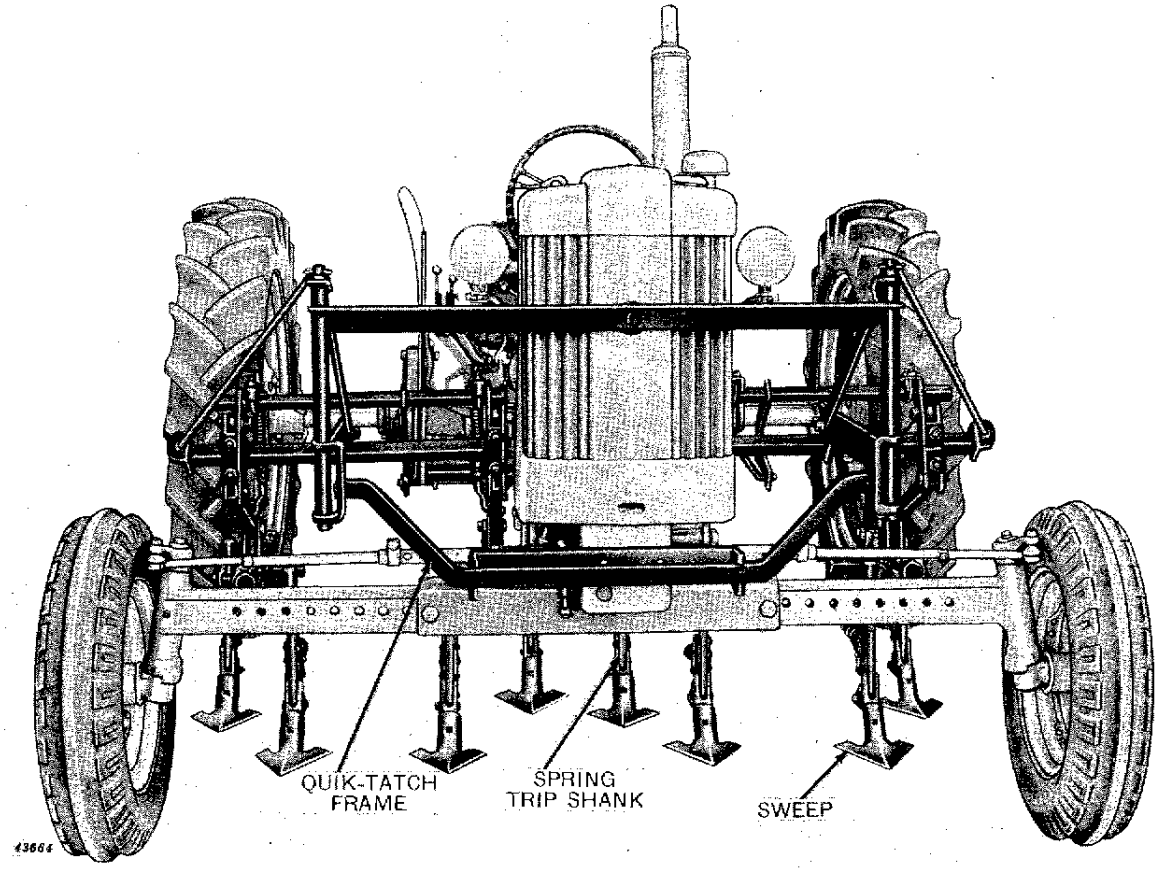

Figure 2—Front View—John Deere 4232 Cultivator

SPECIFICATIONS

All 4230 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
4232	8 Spring Trip 1-3/8" Shanks	3 Spring Trip 1-3/8" Shanks	11	28"–42"
4233	8 Quik Adj. Spring Trip 1-3/8" Shanks	3 Quik Adj. Spring Trip 1-3/8" Shanks	11	28"–42"
4234	8 Double Spring Teeth	6 Single Spring Teeth	14	28"–42"
4235	8 Double Spring Teeth	3 Quik Adj. Spring Trip 1-3/8" Shanks	11	28"–42"
4236	8 Single Spring Teeth	6 Single Spring Teeth	14	28"–42"
4237	4 Spring Trip Shanks 1-3/8", 4 Single Spring Teeth	6 Single Spring Teeth	14	28"–42"
4238	8 Spring Trip 1-3/8 Shanks	6 Single Spring Teeth	14	28"–42"

All 4230 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 4230 Series Cultivators.

OPERATION

The John Deere 4230 Series Cultivator is designed for use with the John Deere Model Two-Row Utility 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.

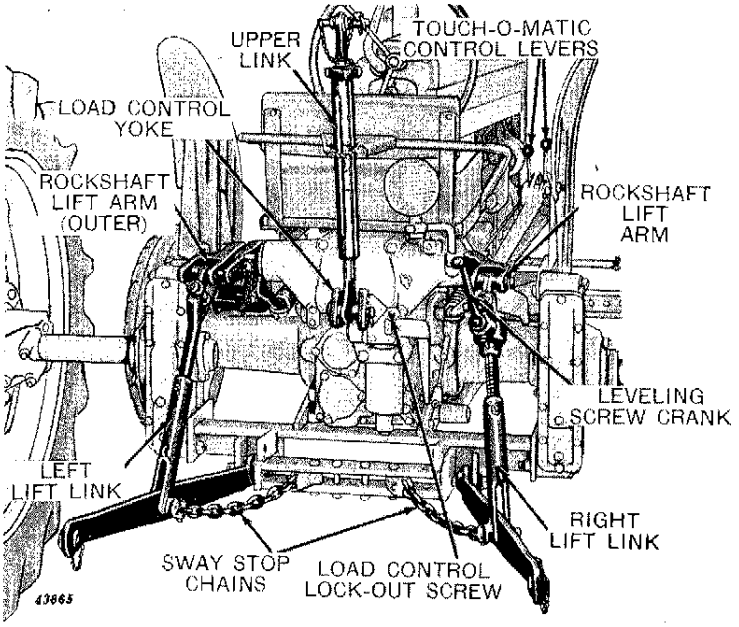

Figure 3

The front and rear wheels of the tractor should be 56 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.

ROCKSHAFT LIFT ARMS.

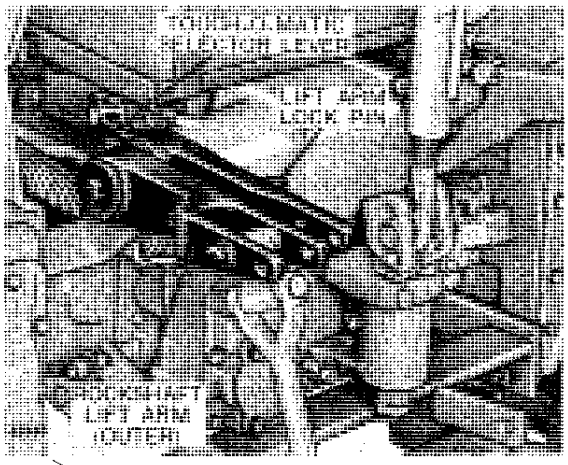

Figure 4—Rockshaft Lift Arms

On Model "40" Two-Row Utility Tractors the rockshaft lift arms must operate independently.

Shift Touch-O-Matic selector lever 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.

Be Careful

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DEPTH CONTROL AND HEIGHT OF LIFT.

The depth at which the cultivator will work and the height of lift is controlled by the tractor Touch-o-matic system. With the rockshaft working as independent units, the front cultivator rigs are controlled by the **left-hand lever** and the rear rigs controlled by the **right-hand lever.**

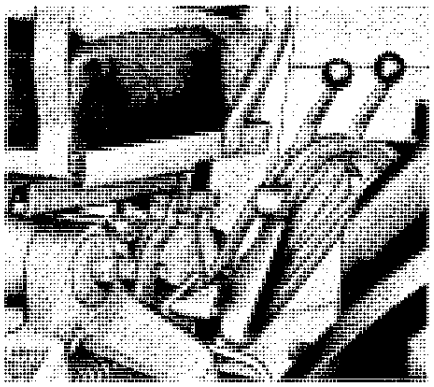

Figure 5—Touch-o-matic Controls

LEVELING FRONT RIGS.

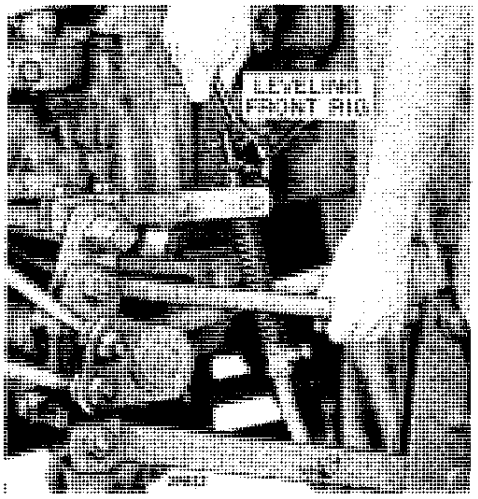

Figure 6—Leveling Front Rigs

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.

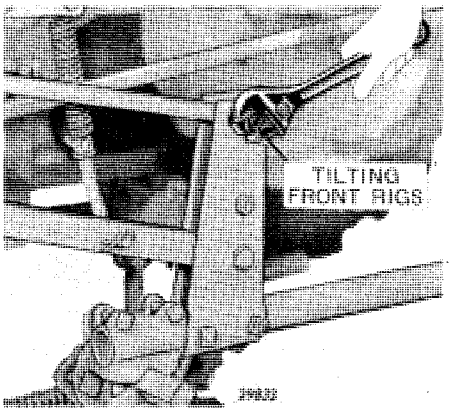

Figure 7—Tilting Front Rigs

RIG CLAMP.

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

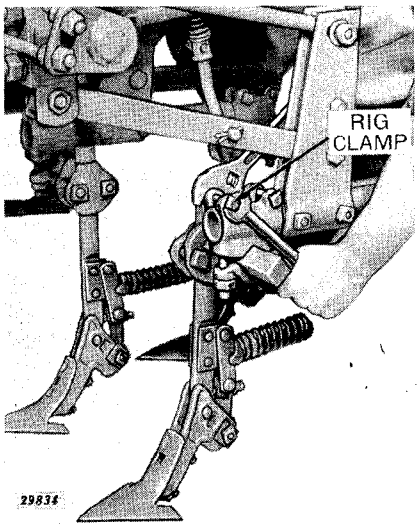

Figure 8—Adjusting Rig Clamp

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.

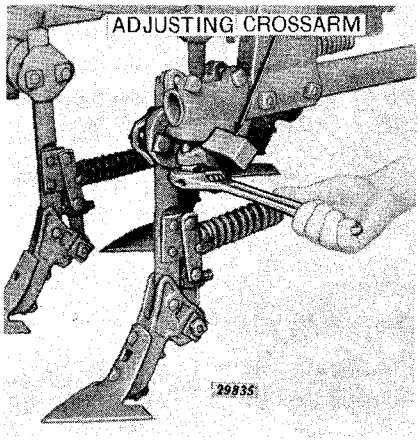

Figure 9—Adjusting Crossarms

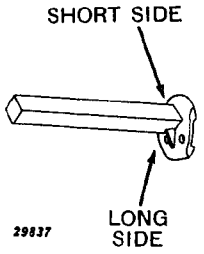

Figure 10—Crossarm

CAUTION: The clamp end of the crossarm is 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.)

LEVELING SHOVELS AND SWEEPS.

Be sure shovels or sweeps are at a uniform height to insure even cultivation.

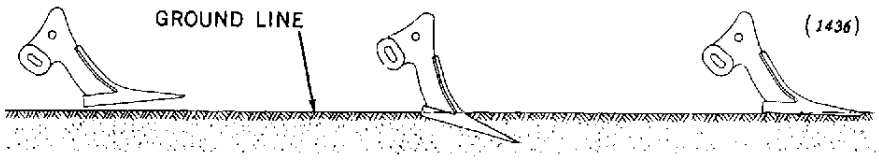

Figure 11—Setting Sweeps on Shanks

ADJUSTING SHANK VERTICALLY.

Adjust the shank vertically as shown in Figure 12, to level sweeps properly.

There is only a limited amount of vertical adjustment in the offset shank—therefore, first adjust the offset shank to the desired position and then level all shovels or sweeps to the shovel or sweep on the offset shank. All shovels or sweeps must be set in the correct setting relation to the ground. (See Figure 11.)

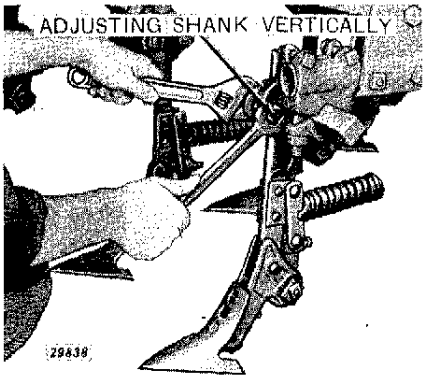

Figure 12—Adjusting Shank Vertically

LEVELING SWEEP WINGS.

Adjust the sleeve to level the wings of the sweeps as shown in Figure 13.

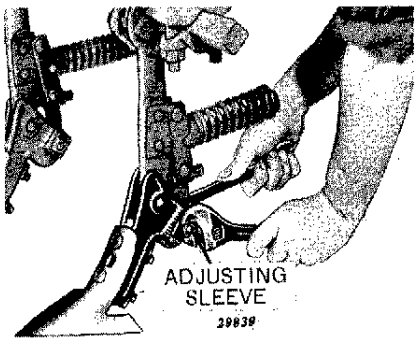

Figure 13—Adjusting Sleeve

SPRING TRIPS.

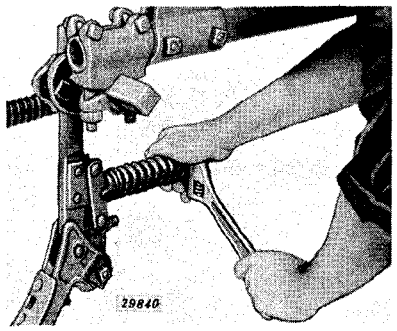

Figure 14—Spring Trips

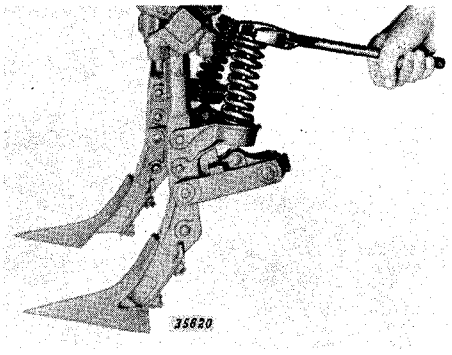

Figure 15—Quick Adjustable Spring Trips

Each spring trip should be tripped before starting cultivator to be sure they will function properly. The tension on the spring trips may be adjusted at the rear end of the spring. (See Figures 14 and 15.)

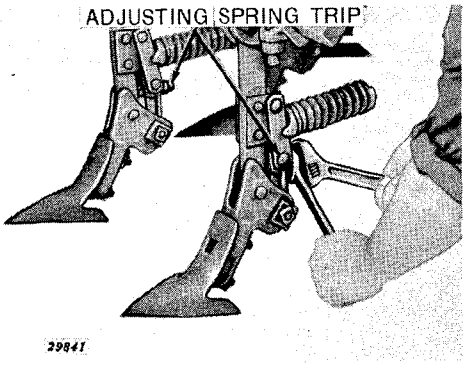

Figure 16—Adjusting Spring Trip

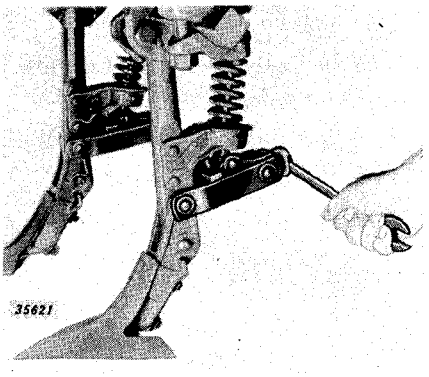

Figure 17—Adjusting Quick Adjustable Spring Trips

If additional adjustment is required, this may be obtained with the set screw. (See Figures 16 and 17.)

This setting is made at the factory and the adjustment rarely requires changing. One-half to one turn of the set screw makes a big difference in the action of the trip. To make the trip hold tighter, turn the set screw out; turn the set screw in to make the trip release more easily.

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ATTACHING QUIK-TATCH CULTIVATOR

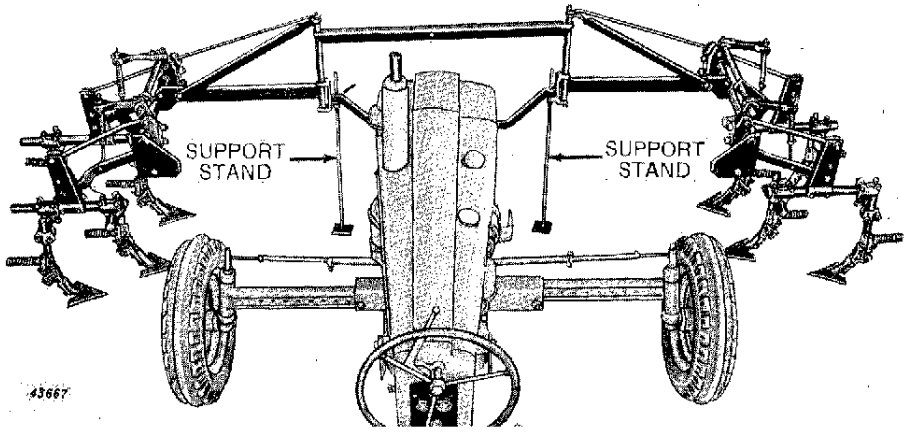

Figure 18—Quik-Tatch Cultivator on Stands

Front section of cultivator must be in position as shown in Figure 18. Drive tractor forward into cultivator as shown in Figure 19 until cultivator Quik-Tatch frame engages coupling fork on tractor.

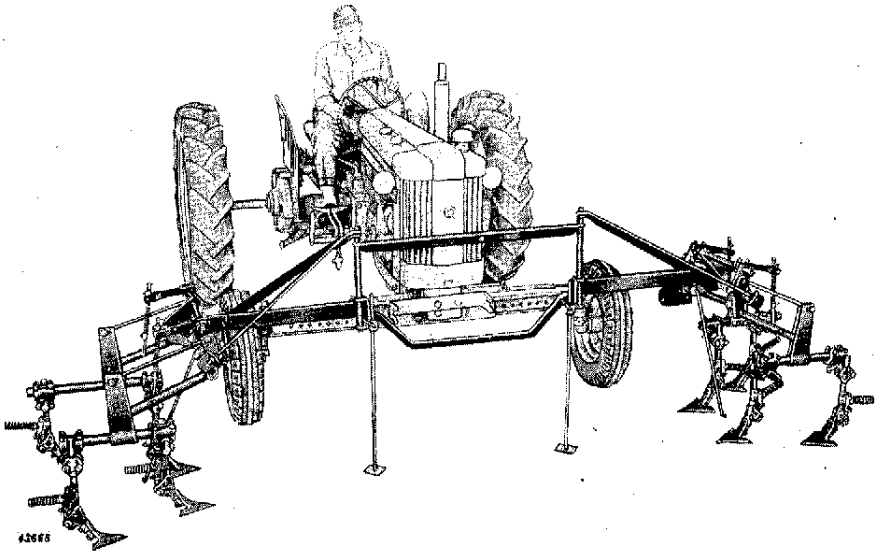

Figure 19—Driving Tractor Into Quik-Tatch Cultivator

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