

# **T21 TWO-ROW TWO-CROP CULTIVATOR**



## **OPERATORS MANUAL** **T21 TWO-ROW** **TWO-CROP CULTIVATOR**

OMN97645 (01APR63) English

**OMN97645 (01APR63)**

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ENGLISH



## TO THE PURCHASER



This manual contains valuable information about your new John Deere Row-Crop Cultivator. It has been carefully prepared and illustrated. In it, you will find instructions and helpful suggestions for operating, adjusting, attaching, transporting, lubricating, and servicing your new cultivator. You will also find instructions for adapting your cultivator to work properly in all types of field cultivation.

Your new 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.

Keep this manual in a convenient place for quick and easy reference. Study this manual carefully. You have purchased a dependable and sturdy implement, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

Give your cultivator proper attention during slack periods, and by doing this it will always be ready, without delay, when you need it.

Sometime in the future, your cultivator may need new parts to replace those that are worn or broken. If so, go to your John Deere dealer. Provide him with the model number of your cultivator and the date purchased. Record this information in the space provided below, so it will be readily accessible when it is needed.

### 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.

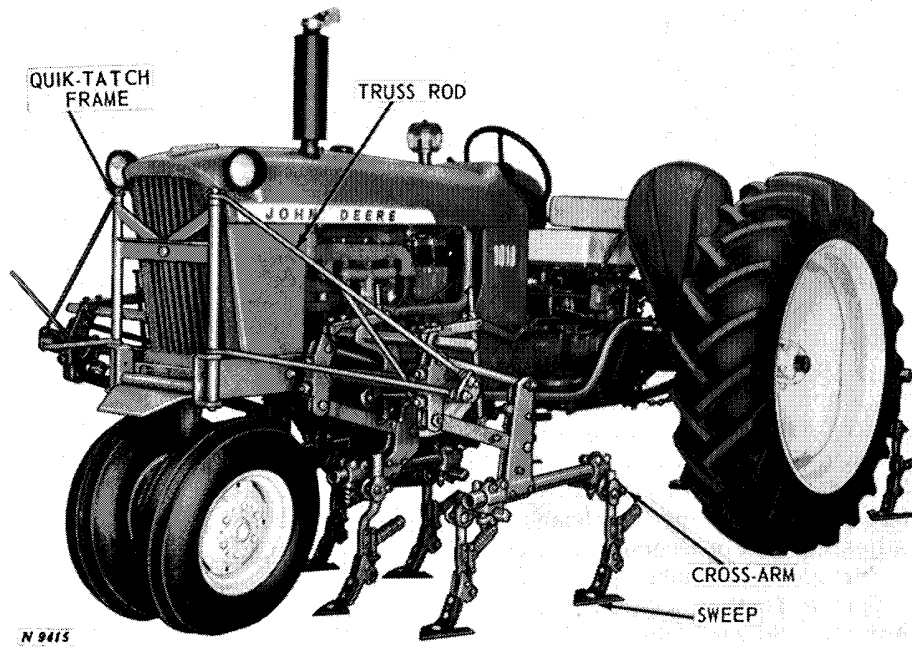
#### John Deere T21 Two-Row Cultivator

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

*(To be filled in by Purchaser)*

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*John Deere T21 Cultivator on 1010 Row-Crop Tractor*

## SPECIFICATIONS

### TRACTOR

John Deere 1010 Row-Crop Tractor with Single or Double Front Wheels. Tractor cannot be equipped with rear tail pipe and muffler.

### ROW SPACING

Two 28- to 42-inch rows (Set 40 inches at factory)

### CULTIVATOR WEIGHT

810 pounds (approximately)

### FRONT RIG EQUIPMENT

Eight Regular Spring-Trip Shanks with Y786AN Shovels.

Eight Quick-Adjustable Spring-Trip Shanks with Y786AN Shovels.

Eight Friction-Trip Shanks with Y786AN Shovels.

Eight Single Spring-Tooth Shanks with Y722AN Shovels.

Eight Double Spring-Tooth Shanks with Y786AN Shovels.

### SWEEPS AND SHOVELS

A Wide Variety of Types and Sizes Available.

### REAR RIG

Tool Bar Type for 3-Point Hitch Tractors.

### REAR RIG EQUIPMENT

Three Regular Spring-Trip Shanks with N61102N Sweeps.

Three Quick-Adjustable Spring-Trip Shanks with N61102N Sweeps.

Three Friction-Trip Shanks with N61102N Sweeps.

Six Single Spring-Tooth Shanks with Y722AN Shovels.

Three Double Spring-Tooth Shanks with N61102N Sweeps.

### SPECIAL EQUIPMENT

No. 1 Centering Attachment

No. 1 Knife Attachment

No. 1 Listed Crop Attachment

No. 3 Front Rig Attachment

No. 3A Rotary Hoe Attachment

No. 21 Spring-Tooth Attachment Spread Bar

Disk Hillers

Vegetable Rig Bars

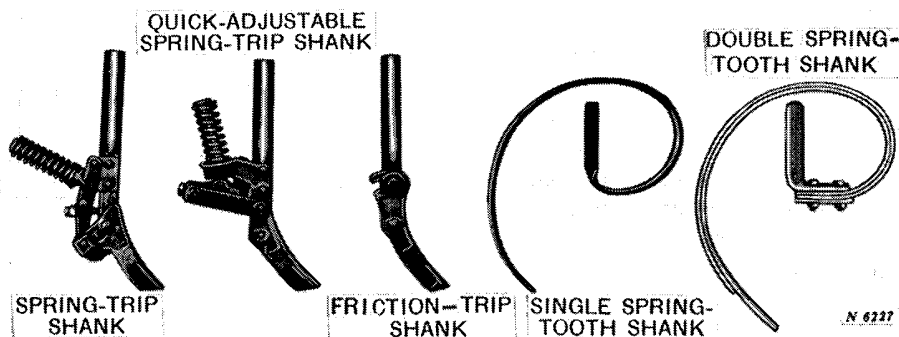
Storage Stands

Shields—Frame Mounted, Rig Mounted and Hooded

AB690E and AB690F Bean Harvesters

96E Peanut Puller

Rockshaft Lift Arm Extensions

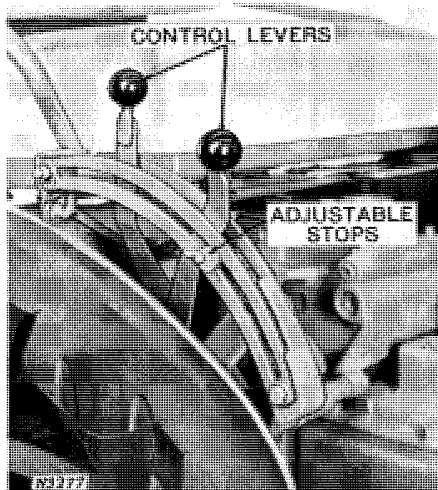


*(Specifications and design subject to change without notice.)*

## OPERATION

### CONTROLS

#### DUAL HYDRAULIC SYSTEM

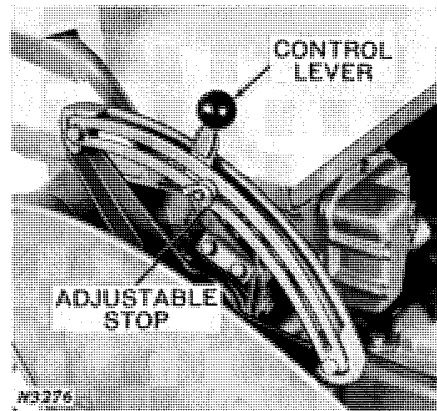


The T21 Cultivator on a John Deere 1010 Tractor with dual hydraulic system is controlled by the control levers on the tractor.

To operate the front rigs independently of each other, set the tractor hydraulic system for independent lift arm operation. The inner lever controls the left-hand front rigs and the outer lever controls the right-hand front and rear rigs. See your tractor operator's manual.

If it is desired to have the front and rear rigs operate simultaneously, set the tractor hydraulic system for parallel lift arm operation. Use the right-hand or outer control lever to control the cultivator. See your tractor operator's manual.

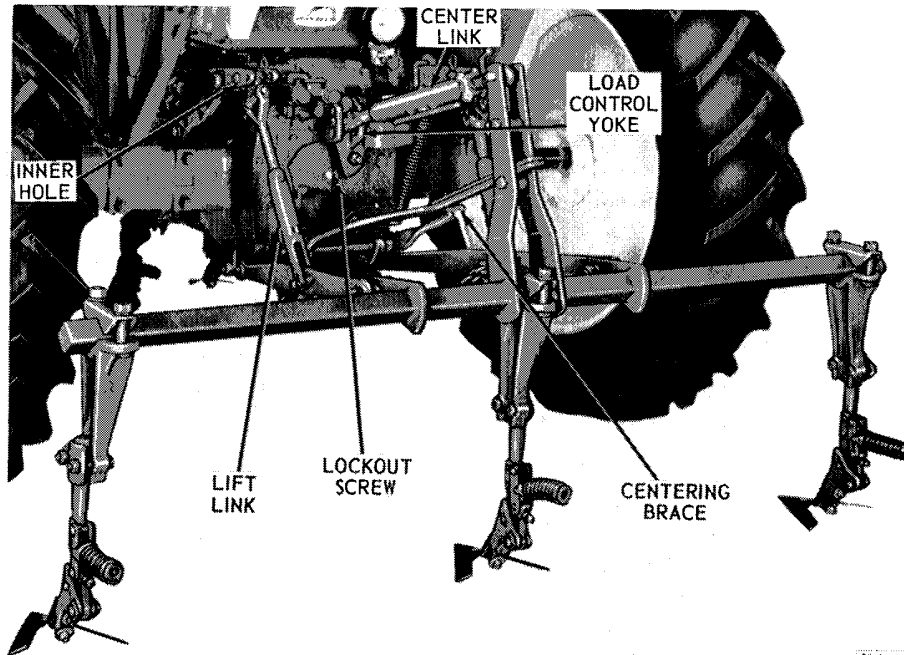
#### SINGLE HYDRAULIC SYSTEM



The T21 Cultivator on a John Deere 1010 Tractor with single hydraulic system, is controlled by the control lever on the tractor. Moving the control lever rearward raises both cultivator rigs while moving the lever forward lowers the rigs. See your tractor operator's manual.



## REAR RIG



N 9416

The rear rig is operated by the tractor rockshaft and controlled by the hydraulic control lever on the tractor.

On tractors with a dual hydraulic system set for independent lift arm operation, use the adjustable stop on the outer control lever to set the working depth of the rig. Adjust the lift links so the rear rig is level and operates at the same depth as the front rigs.

On tractors with single hydraulic system or with dual hydraulic system set for parallel lift arm operation, the working depth of the rear rig is controlled by the length of the 3-point hitch lift links. After the working depth of the front rigs has been established, lengthen or shorten the lift links as required to secure the desired working depth of the rear rig. Adjust links so the rear rig is level.

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

For normal ground conditions, pin the center link in the middle hole of the load control yoke. For light draft conditions use the lower hole and for heavy draft conditions, use the upper hole in the load control yoke.

Turn load control lock out screw inward so load control will function.

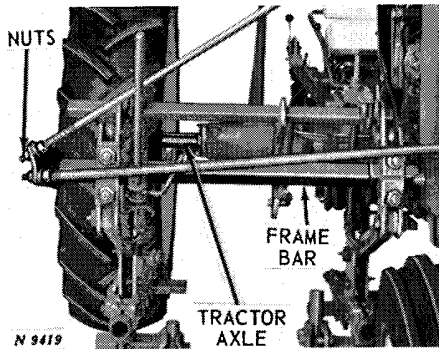
### CENTERING BRACE

The centering brace is used with the rear rig to eliminate any side sway.

The sway chains should be used for transport stability.

## 6 Operation

### LEVELING CULTIVATOR FRONT FRAMES

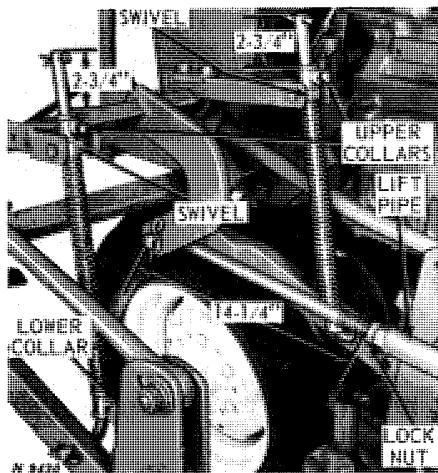


To do a good job of cultivating, the front frames of the cultivator must be level.

To determine whether or not the front frames are level, stand in front of the tractor and sight along the cultivator frame bar.

If necessary, adjust the nuts on the truss rods until the frame is level and parallel with the tractor axle.

### HEIGHT OF LIFT OF FRONT RIGS



Adjustments are provided on the lift pipes and the rig lift rods to se-

cure the correct height of lift. Make these adjustments as needed.

**CAUTION:** After changing the setting of the upper collars or the lift pipe, raise the cultivator slowly and check for adequate clearance between cultivator and tractor and for adequate transport clearance.

### LIFT PIPE

The distance from the front of the lock nut on the lift pipe to the center of the attaching hole in the lift arm should be 14-1/4 inches.

To lengthen or shorten the lift pipe, disconnect it from the cultivator lift arm and loosen the lock nut. Turn the rod in or out as necessary to lengthen or shorten the lift pipe.

Be sure that the lift arm does not come in contact with the rear of the frame bar, when the cultivator rigs are lowered.

### RIG LIFT ROD COLLARS

Set the upper collars on the rig lift rods about 2-3/4 inches from the top of the lift rod.

To adjust the collars, raise the cultivator. Loosen the set screw and position the collars at the correct location.

If additional lift is needed after the cultivator is fully raised, lift the rigs by hand until they come in contact with the tractor. Then secure the upper collar down next to the swivel.



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