

S1-A ONE-ROW ROW-CROP CULTIVATOR



JOHN DEERE

OPERATORS MANUAL S1-A ONE-ROW ROW-CROP CULTIVATOR

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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 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 it 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. 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 S1-A ONE-ROW CULTIVATOR

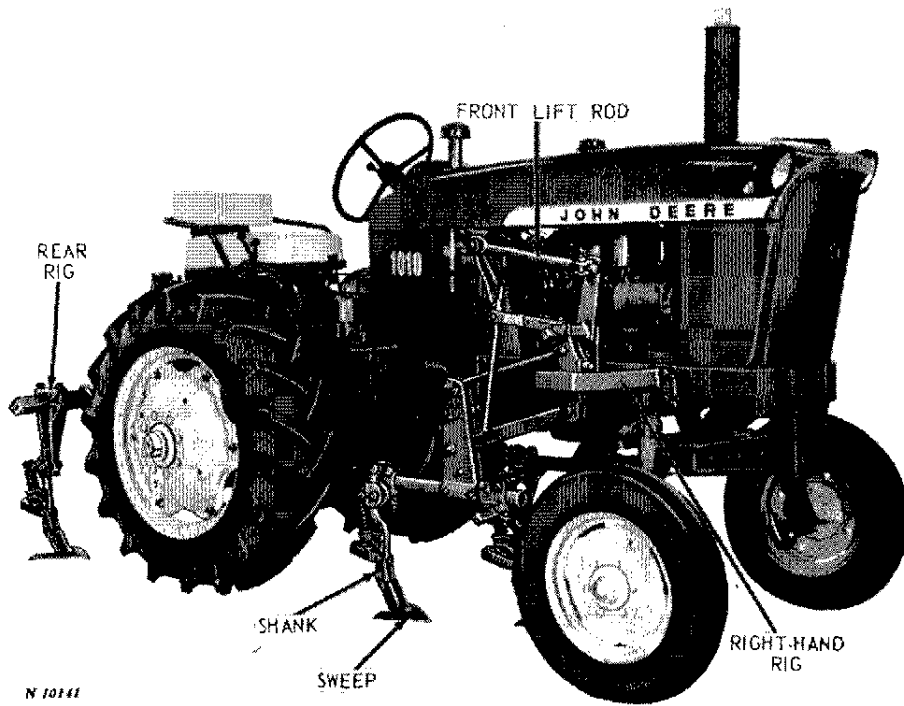
Model Number

Date Purchased 19 . . .

(To be filled in by Purchaser)

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John Deere S1A Cultivator with Regular Shank Arrangement

SPECIFICATIONS

TRACTOR

John Deere 1010 Single Row-Crop with Single or Dual Hydraulic System.

ROW SPACING

Regular Shank Arrangement—36- to 40-inch rows.

Alternate Shank Arrangement—38- to 40-inch rows.

FRONT RIG EQUIPMENT

RE-22—Four Regular—Offset Spring-Trip Shanks and Universal Sweeps.

RE-23—Four Quick-Adjustable—Offset Spring-Trip Shanks and Universal Sweeps.

RE-24—Four Single Spring-Tooth Shanks and Y722AN Shovels.

RE-25—Four Double Spring-Tooth Shanks and Y786AN Shovels.

RE-26—Four Friction-Trip Shanks and Universal Sweeps.

REAR RIG EQUIPMENT

90 Series Rear Rigs—Tool Bar Type

92 Rear Rig Section has 2 Regular Spring-Trip Shanks with Universal 10-Inch Sweeps.

93 Rear Rig Section has 2 Quick-Adjustable Spring-Trip Shanks with Universal 10-Inch Sweeps.

98 Rear Rig Section has 2 Stub-Beam Shank Standards and 4 Single Spring-Tooth Shanks with Shovels.

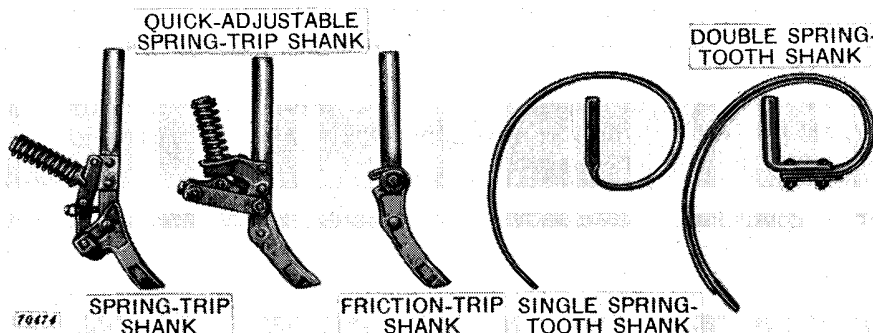
EXTRA EQUIPMENT

Plant Shields (Rig Mounted)
Disk Hillers (12, 14, or 16 Inches)
No. 21 Spring-Tooth Attachment
Sweeps and Shovels in a variety of shapes and sizes.

CULTIVATOR WEIGHT

(Including Rear Rig)
280 Pounds (Approximately)

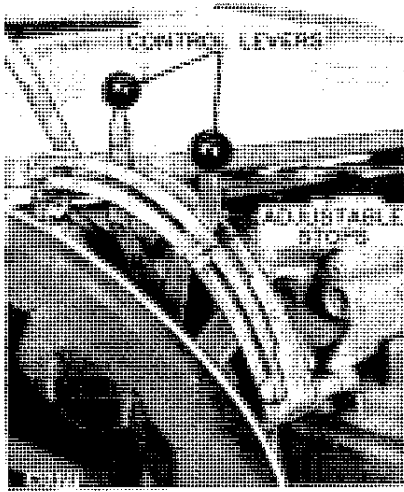
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OPERATION

CONTROLS

DUAL HYDRAULIC SYSTEM

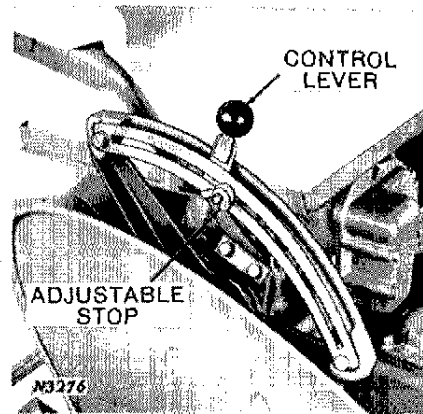


The S1-A Cultivator on a John Deere 1010 Tractor with dual hydraulic system is controlled by the control levers on the tractor.

To operate the front rigs independent of the rear rigs, set the tractor hydraulic system for independent lift arm operation. The inner lever controls the front rigs and the outer lever controls the 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

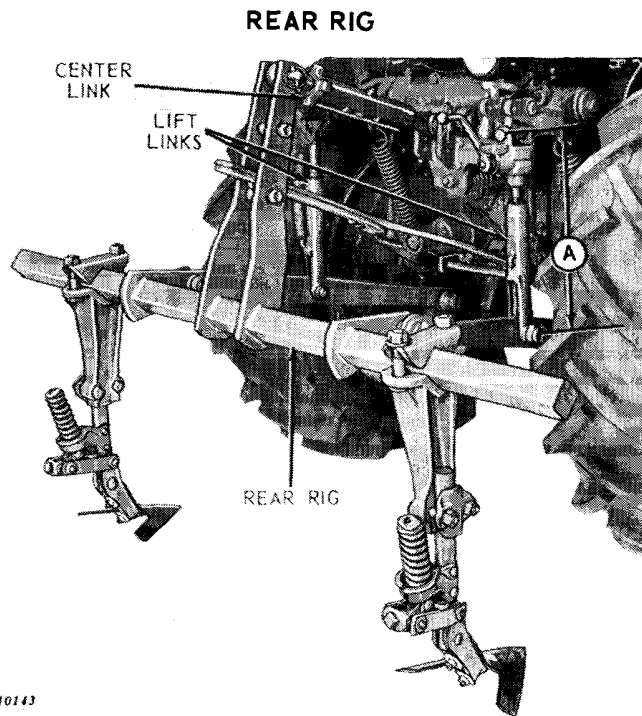


The S1-A Cultivator on a John Deere 1010 Tractor with single hydraulic system, is controlled by the control lever on the tractor. Moving the control lever rearward raises both cultivator rigs while moving the lever forward lowers the rigs. See your tractor operator's manual.

WORKING DEPTH

The working depth of the cultivator rear rig is determined by the position of the hydraulic control levers on the tractor and the length of the 3-point hitch lift links. Use the adjustable stops on the hydraulic control lever quadrant to limit the working depth of the rear rig.

Rig depth stops control the working depth of the front rigs.



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

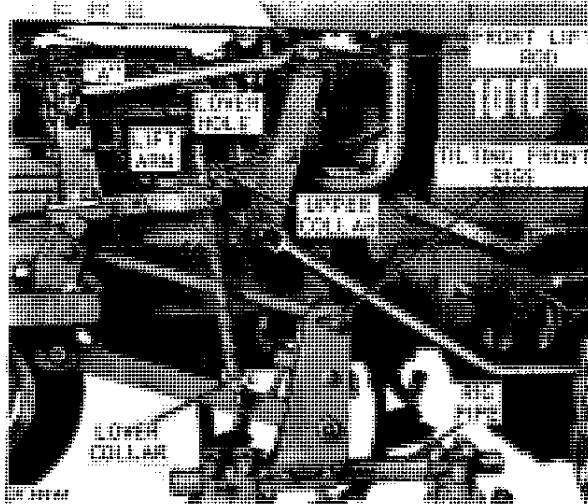
On tractors with a dual hydraulic system set for independent lift arm operation use the adjustable stop on the outer control lever to set the working depth of the rear rig. Adjust the lift links so the rear rig is level. For normal operation set the length of lift links "A" at 18 inches between the lift link attaching pins. Also adjust the center link un-

til the sweeps are at their desired angle. See page 8.

On tractors with single hydraulic system or with dual hydraulic system set for parallel lift arm operation, set the length of the lift links "A" at 18 inches between the lift link attaching pins. After the working depth of the front rigs has been established, adjust the rockshaft control lever to secure the desired working depth of the rear rig. Adjust the links so the rear rig is level.

6 Operation

FRONT RIGS



HEIGHT OF LIFT OF FRONT RIGS

Adjustments are provided on the front lift rods for obtaining the correct height of lift.

Set the clamp on the front lift rod at 'A' 1/2-inch from the end of the lift rod. Adjust both clamps to make the rigs on both sides raise an equal amount.

If additional lift or greater penetration is required, move the clamps slightly to obtain the greatest efficiency from rockshaft lift rods. If still further lift is required, move both front lift rods to the lower hole in the cultivator lift arm.

CAUTION: Adjust the upper collars on the rig lift rods so the rig pipes will not strike the rig hangers or tractor when the cultivator is raised.

To adjust the cultivator rigs, loosen the upper and lower collars. Raise the cultivator to its fully

raised position by operating the rockshaft control lever. Raise the two rigs, by hand to the desired height. Set the upper collars down against the swivels. Pull the lower collars up snug to the spring and fasten in place to provide rig down pressure.

ADJUSTING DOWN PRESSURE

To increase down pressure, raise the lower collars on the rig lift rods.

TILTING AND LEVELING FRONT RIGS

Each rig can be tilted up or down so the rig pipes are level. The rig pipes should be about 1/4-inch higher in front so they will run level while cultivating.

Sight across the rig pipes from the side of the cultivator to see that they are the same height and tilted the same.

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