

S1 One-Row Row-Crop Cultivator



JOHN DEERE

OPERATORS MANUAL S1 One-Row Row-Crop Cultivator

OMN97626 K2 English

OMN97626 K2

LITHO IN U.S.A.
ENGLISH



To the purchaser

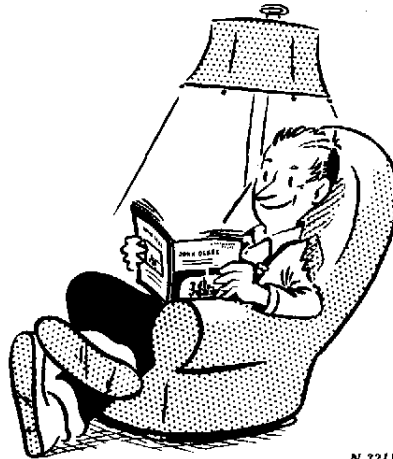
The purpose of this manual is to furnish valuable information about your new John Deere Row-Crop Cultivator. It has been carefully prepared and illustrated. In it, you will find instructions and helpful suggestions for operating, adjusting, attaching, transporting, lubricating and servicing your new 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. 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.

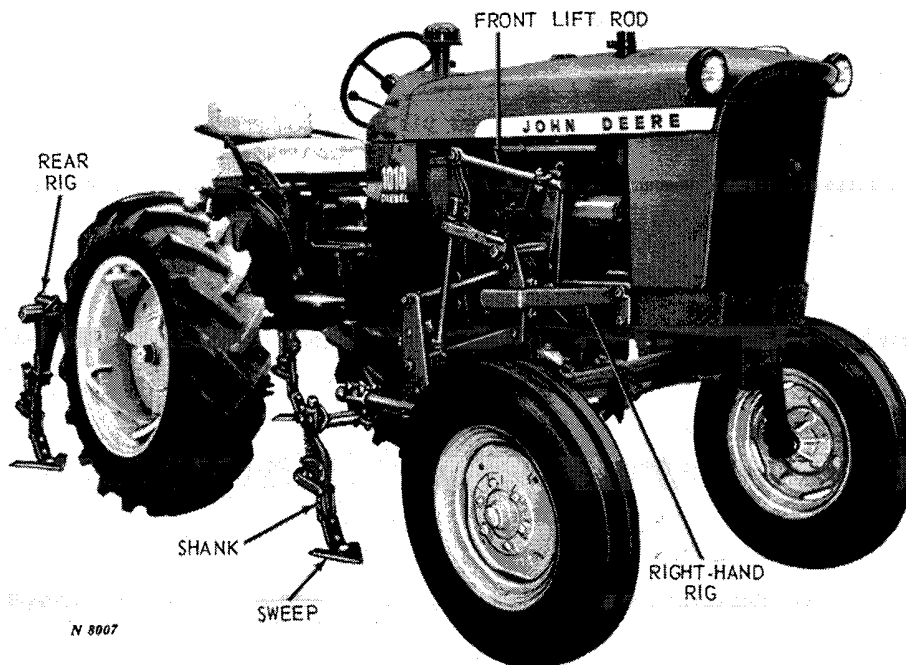
John Deere S1 One-Row Cultivator	
Model Number	
Date Purchased	19
<i>(To be filled in by Purchaser)</i>	

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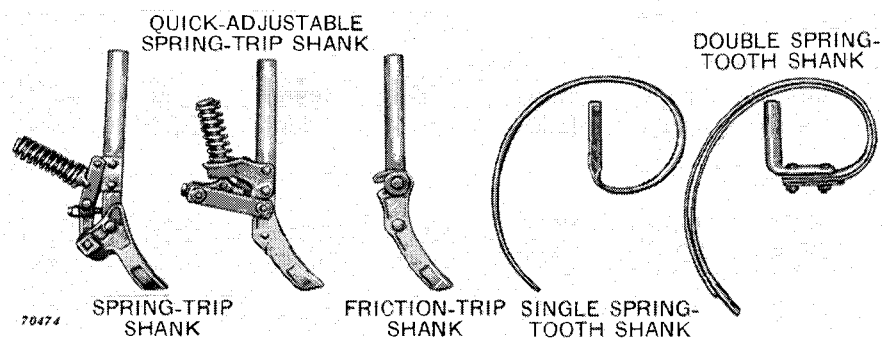
John Deere S1 Cultivator with Regular Shank Arrangement



John Deere S1 Cultivator with Alternate 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 Y786AN Shovels. RE-23—Four Quick-Adjustable—Offset Spring-Trip Shanks and Y786AN Shovels. 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 Y786AN Shovels.
Rear Rig Equipment..	90 Series Rear Rigs—Tool Bar Type 92 Rear Rig Section has 2 Regular Spring-Trip Shanks with 10-Inch Sweeps 93 Rear Rig Section has 2 Quick-Adjustable Spring-Trip Shanks with 10-Inch Sweeps 98 Rear Rig Section has 2 Stub-Beam Shank Standards with 4 Single Spring-Tooth Shanks
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.

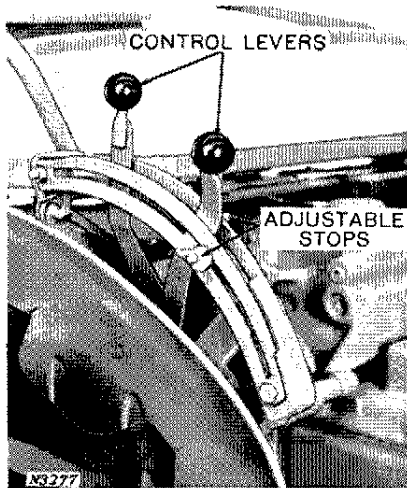


(Specifications and design subject to change without notice)

Operation

Controls

Dual hydraulic system

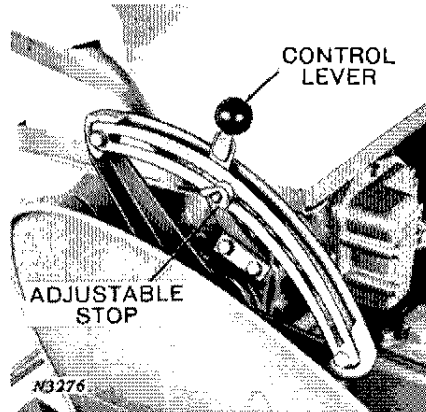


The S1 Cultivator on a John Deere 1010 Tractor with dual hydraulic system is controlled by the control levers on the tractor.

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



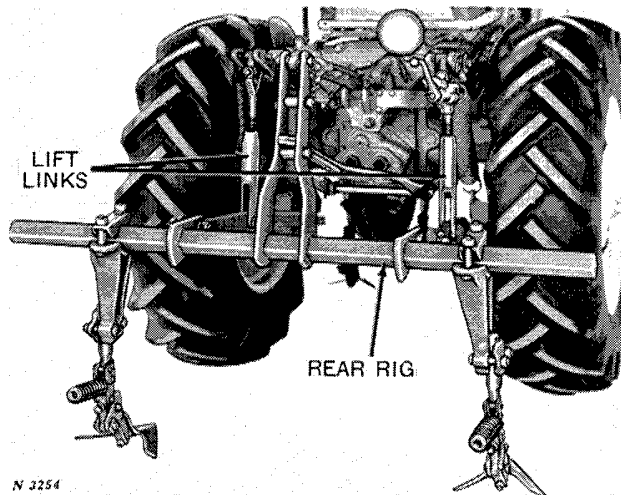
The S1 Cultivator on a John Deere 1010 Tractor with single hydraulic system, is controlled by the control lever on the tractor. Moving the control lever rearward raises both cultivator rigs while moving the lever forward lowers the rigs. See your tractor operator's manual.

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.

Rear Rig



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

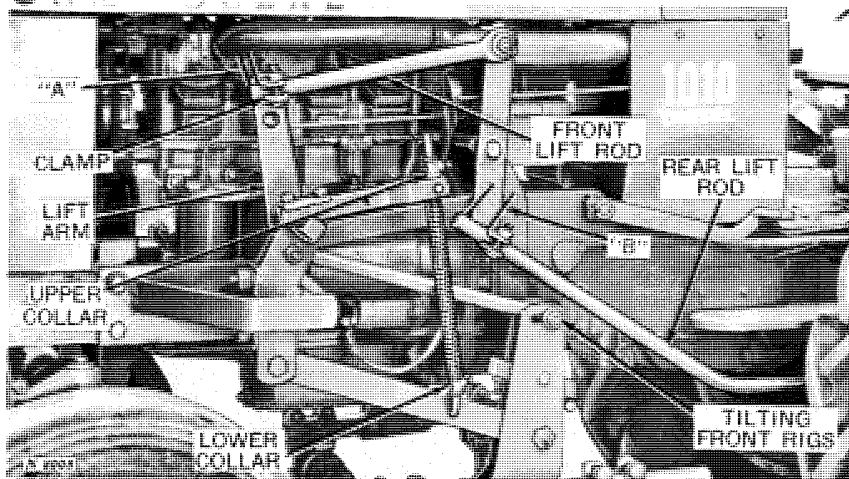
On tractors with a dual hydraulic system set for independent lift arm operation use the adjustable stop on the outer control lever to set the working depth of the rear rig. Adjust the lift links so the rear rig is level. Also adjust the upper link until the sweep shanks are vertical.

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.

**A Careful Operator
IS THE BEST INSURANCE
AGAINST AN ACCIDENT**

—National Safety Council

Front Rigs



Height of lift of front rigs

Adjustments are provided on the front lift rods and rear lift rod for correct height of lift.

Set the clamp on the front lift rod at "A" 1/2-inch from the end of the lift rod for the regular shank arrangement and 1-inch from the end for the alternate shank arrangement. Adjust both clamps to make the rigs on both sides raise an equal amount.

Set the clamp on the rear lift rod at "B" 2-1/4 inches from the end of the lift rod on the left-hand side of the tractor for the regular and 2-1/2 inches for the alternate shank arrangement.

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 clamp on the rear lift rod or 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, as high as possible. 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

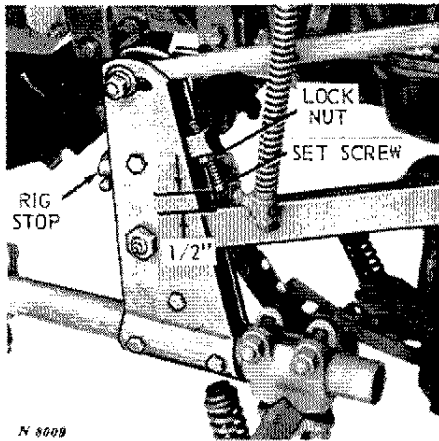
To increase down pressure, raise the lower collars on the rig lift rods.

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.

Rig depth stops

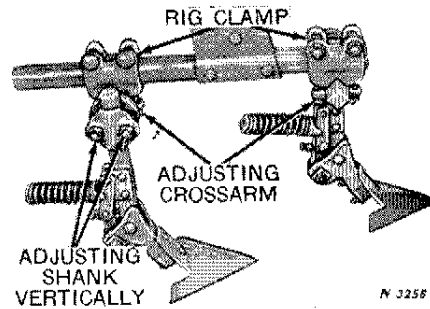


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There are rig depth stops on the front rigs. With the cultivator resting on a level surface or floor, there should be approximately 1/2-inch clearance between the head of the set screw and the lower rig link. This distance controls the cultivating depth of the front rigs. For a greater depth, loosen the lock nut and turn the set screw in. For less depth, turn the set screw out. Be sure the lock nut is kept tight.

Crossarms, Clamps and Shanks

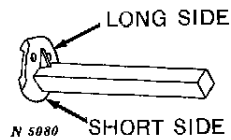
Clamps and shanks



Loosen nuts holding clamp to rig pipe to turn clamp so shank will be perpendicular to ground. Tighten nuts after setting.

Loosen nuts on bolts holding crossarm to move crossarm in or out to meet the crop condition. After setting, tighten nuts. For vertical adjustment, loosen nuts on bolts holding shanks to crossarm and level sweeps so all sweeps penetrate the soil to the same depth.

Crossarm



The clamp end of the crossarm is 3/4-inch longer on one side than on the other. The crossarms should be installed in the clamp so the longer side of the clamp end is up.



be careful.....
avoid accidents

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