

H2-1 One-Row or Two-Row Hi-Crop Cultivator



JOHN DEERE

OPERATORS MANUAL

H2-1 One-Row or Two-Row Hi-Crop
Cultivator

OMN97533 (01MAR61) English

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LITHO IN U.S.A.
ENGLISH



To the purchaser



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.

This manual contains valuable information about your new John Deere Hi-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

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 H2-1 ONE-ROW OR
TWO-ROW HI-CROP
CULTIVATOR**

Cultivator Model

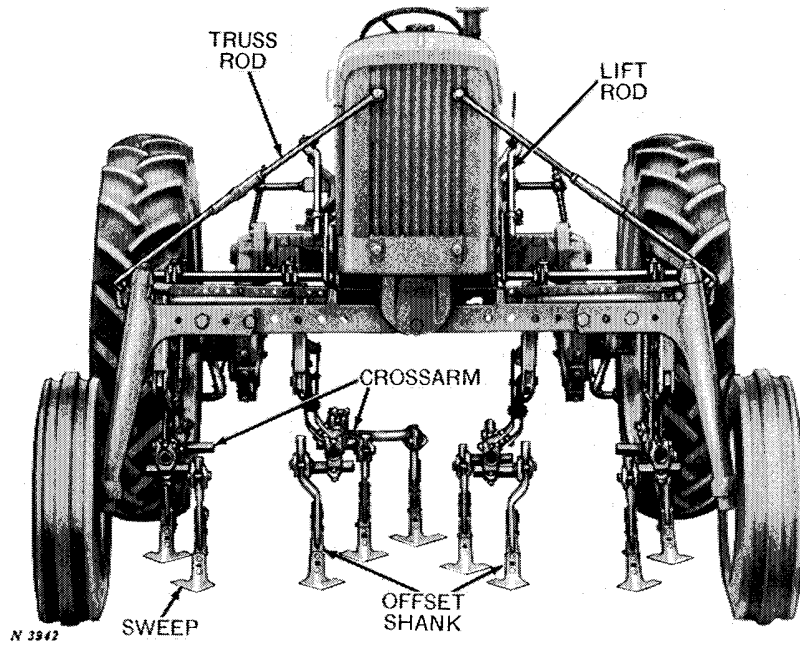
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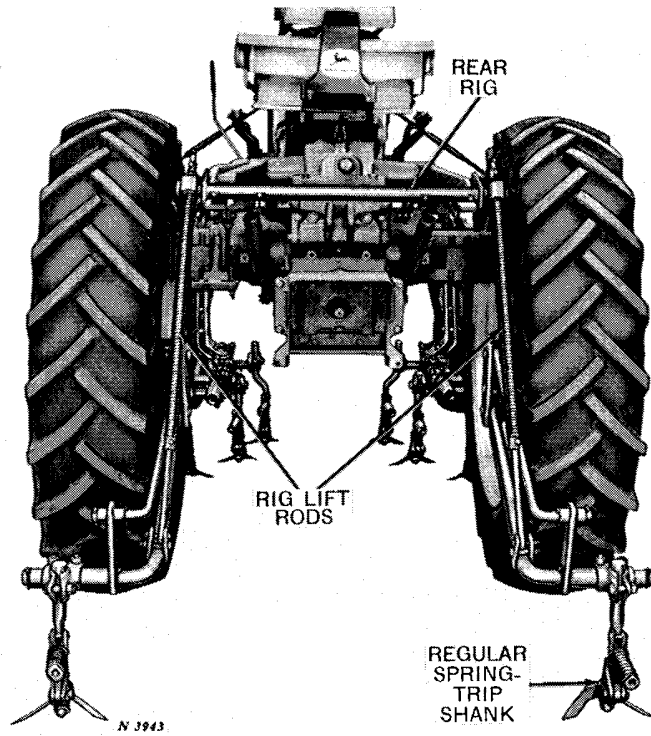
Price \$

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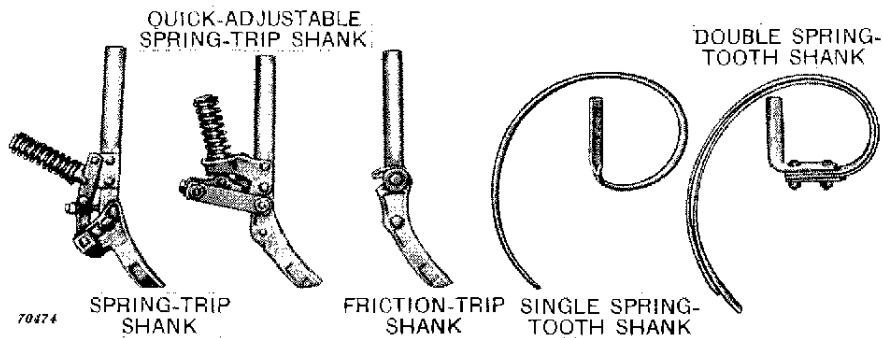
Front view of John Deere H2-1 Hi-Crop Cultivator assembled for two-row operation



Rear view of John Deere H2-1 Hi-Crop Cultivator assembled for one-row operation.

Specifications

Tractor	John Deere 2010 Hi-Crop Tractor
Row Spacing	28- to 42-inch rows (When set for two rows) 54- to 84-inch rows (When set for one row) Cultivator is shipped from the factory set for two 36-inch rows.
Front and Rear Rig Equipment	RE 41 - Regular Spring Trip Shanks and Y786AN Shovels (11 used)
Rear Rig	Parallel lift type
Cultivator Weight	Approximately 800 pounds
Extra Equipment	Shields - frame mounted and rig mounted Disk Hillers Spread Arch Spread Bar Rig Bar

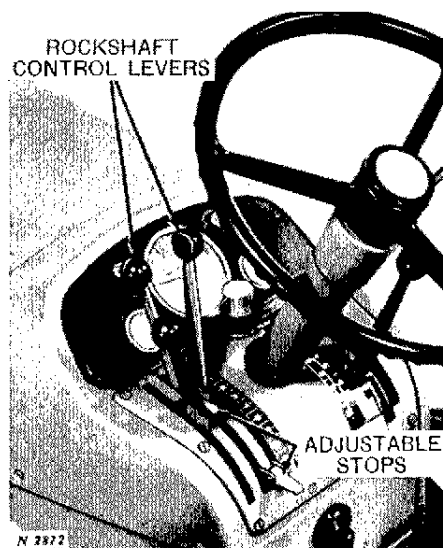


(Specifications and design subject to change without notice)

Operation

Controls

Dual hydraulic system



The H2-1 Cultivator is controlled by the rockshaft control levers on the 2010 Hi-Crop Tractor.

Delayed rear rig lift

To operate the front rigs together, but independent of the rear rig, set the tractor hydraulic system for independent lift arm operation.

Only the left-hand cable should be used from the rear rockshaft to the front rockshaft. Set the two sides of the front rockshaft for parallel operation.

The left-hand rockshaft control lever controls the front rigs and the right-hand lever controls the rear rig.

Selective lift

To operate the front rigs independent of each other, set the tractor hydraulic system and front rockshaft for independent "split" lift arm operation.

The tractor must have a dual control front rockshaft with cables used on both sides. The left-hand rockshaft lever controls the left-hand side of the cultivator and the right-hand lever controls the right-hand side of the cultivator and the rear rigs. See your tractor operator's manual.

Simultaneous lift

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

Single hydraulic system

The H2-1 Cultivator on a John Deere 2010 Hi-Crop Tractor with single hydraulic system is controlled by the rockshaft control lever on the tractor. Moving the control lever forward simultaneously raises both the front and rear rigs while moving the lever rearward lowers the rigs. See your tractor operator's manual.

Working depth

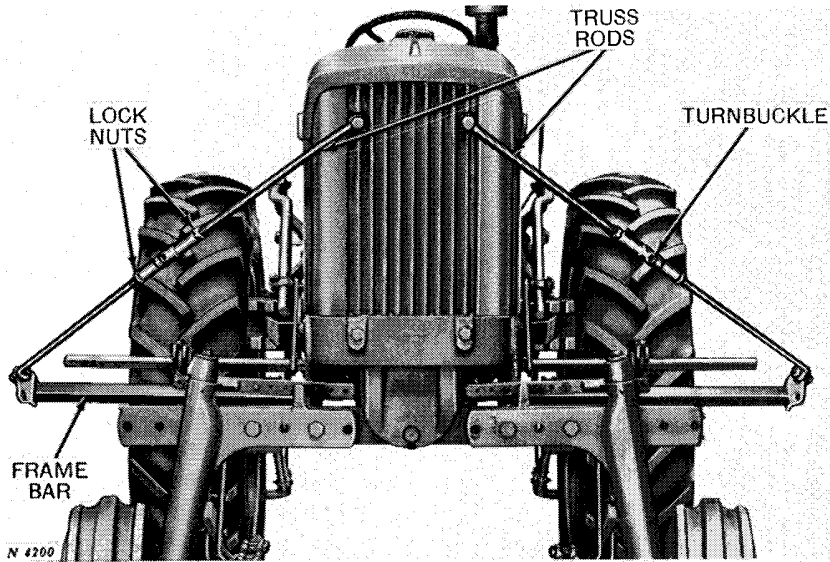
The working depth of the cultivator is determined by the position of the hydraulic control levers on the tractor. Use the adjustable stops on the hydraulic control lever quadrant to limit the working depth.

Tractor tire inflation

Refer to your tractor operator's manual for operating instructions on tractor tire inflation pressures.

6 operation

Leveling front frames



Cultivator set for one-row operation

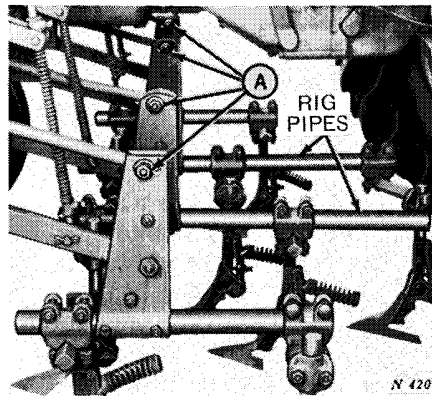
In order to do a good job of cultivating, it is important that the front frames of your cultivator be level.

To check, stand in front of the tractor and sight along the cultivator frame bar.

If the frame is not level, adjust the turnbuckles on the truss rods until the frame bar is level with the tractor rear axle.

Be sure to lock the turnbuckles in place with the lock nuts when the cultivator is level.

Tilting rig pipes



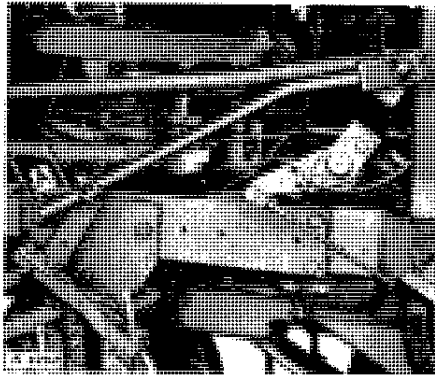
Each rig pipe can be tilted up or down at "A" so all rig pipes will be level. The rig pipes should be about 1/4-inch higher in front so they will run level while cultivating.

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

Height of lift of front rigs

Adjustments are provided on the cultivator lift rod and rig lift rods to secure the correct height of lift. If necessary make these adjustments on the cultivator as described below.

Lift rod

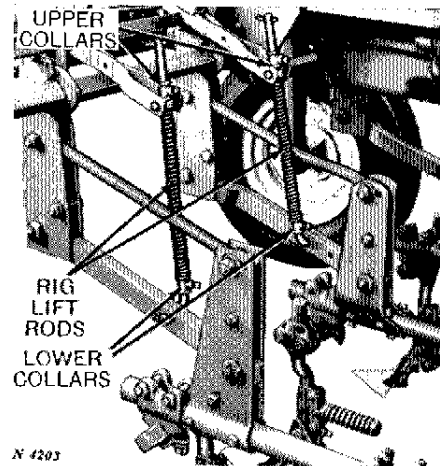


On both sides of the tractor, set the distance at "A" (from the end of the lift rod to the clamp) at approximately 4-1/2 inches.

To check this distance, raise the cultivator slowly. Make sure the rig pipes do not strike the lower rig links. If they do strike, loosen all the upper collars on the rig lift rods. Then, continue to raise the cultivator. Make sure the cultivator lift arm does not rotate too far forward. Also, in lowering the cultivator, make sure the lift arm does not rotate too far rearward.

If the lift arm is rotating too far forward, shorten the distance at "A." If the lift arm is rotating too far rearward, lengthen the distance at "A."

Rig lift rods



To set the rig lift rods for the highest possible lift, make sure the cultivator is in the fully raised position.

Then raise the rig pipes by hand to the desired height and set the upper collars down against the swivels.

Adjusting down pressure

To adjust for down pressure on the front rig sweeps or shovels, raise the cultivator. Increase down pressure by raising the lower collars on the rig lift rods.

If no down pressure is desired, loosen the lower collars on the rig lift rods and let them slide down to the bottom of the rod and tighten in place.

Even though depth of operation is controlled by the hydraulic control levers on the tractor, proper down pressure is desirable where the soil is hard and doesn't allow for proper sweep penetration.

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