

A2 Two-Row A4 Four-Row Row-Crop Cultivator



OPERATORS MANUAL

**A2 Two-Row A4 Four-Row Row-Crop
Cultivator**

OMN97585 (01SEP61) English

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LITHO IN U.S.A.
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 A2, TWO-ROW AND A4, FOUR-ROW CULTIVATORS

Model of Cultivator.....

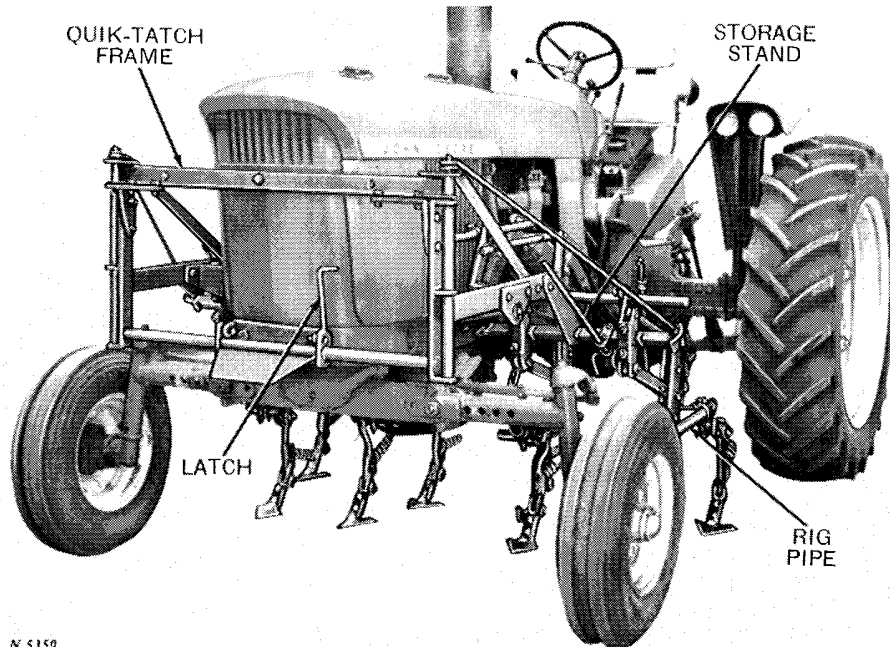
Date Purchased.....19.....

(To be filled in by Purchaser)

Price \$

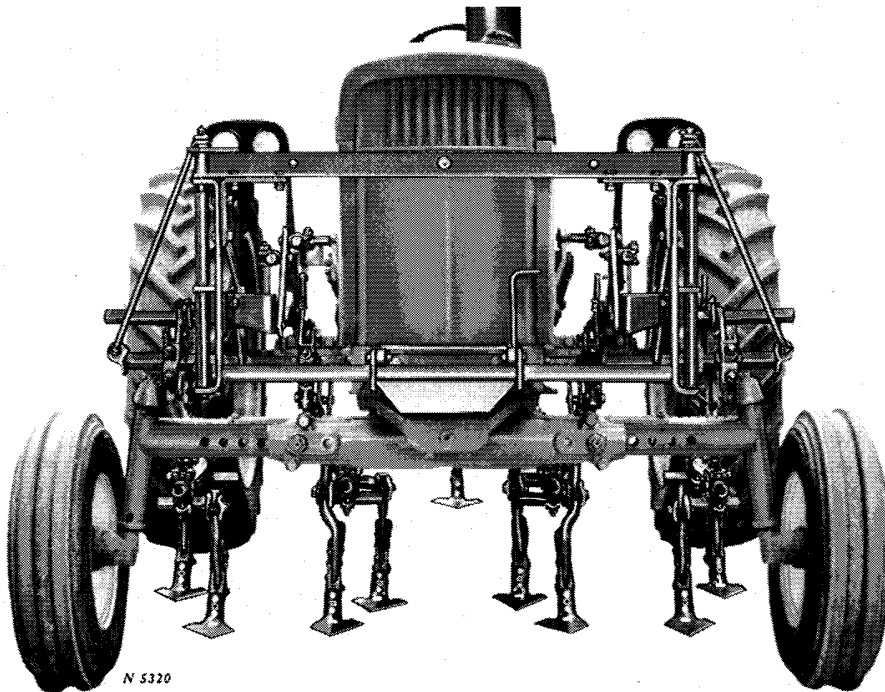
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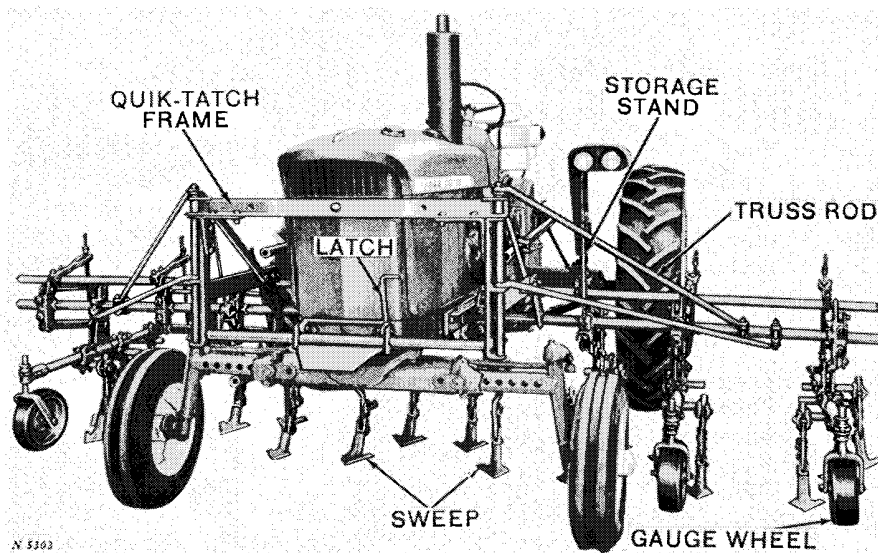
N 5350

John Deere A2R Cultivator with RE28 shanks and sweeps on 3010 Row-Crop Tractor with adjustable tread front axle

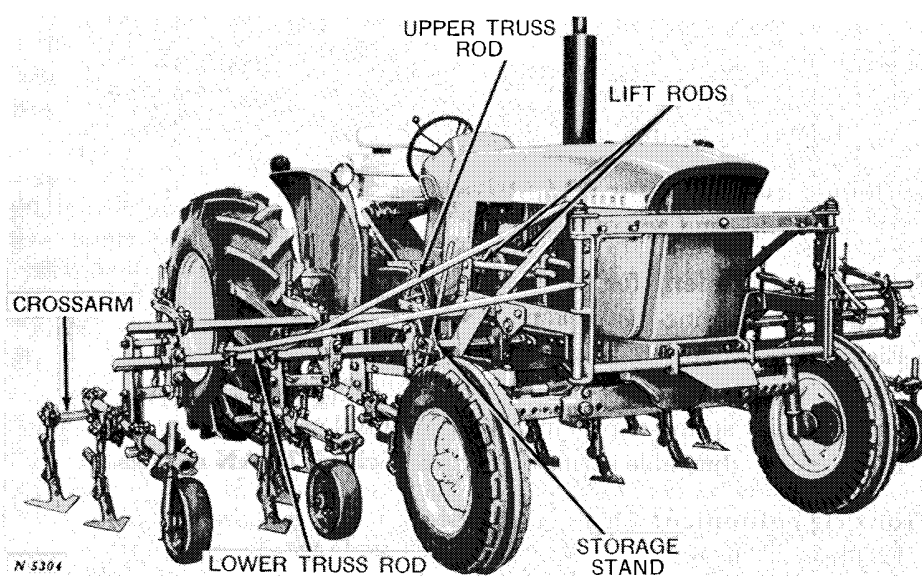


N 5320

John Deere A2F Cultivator with regular spring-trip shanks and sweeps on 3010 Row-Crop Tractor



John Deere A4R Cultivator with regular spring-trip shanks and sweeps on 3010 Row-Crop Tractor with adjustable tread front axle



John Deere A4F Cultivator with regular spring-trip shanks and sweeps on 3010 Row-Crop Utility Tractor

Specifications

Tractors

John Deere 3010 and 4010 Row-Crop Tractors with adjustable tread front axle.

John Deere 3010 Row-Crop Utility Tractors with adjustable tread front axle (50 to 79 inches) and long wheel base. The tractor also must be equipped with a front-mounted rockshaft and a 3-point hitch.

The cultivator cannot be mounted on the 3010 Row-Crop Utility Tractor which has the short wheel base (81-1/2 inches), a fixed tread front axle (55-1/2 and 61 inches), or a rear muffler and tail pipe for gas, LP, or Diesel Tractors.

Cultivator models

A2R and A4R operated by rear rockshaft on tractor.

A2F and A4F operated by front rockshaft on tractor.

The "F" type is the only cultivator that will work on the 3010 Row-Crop Utility Tractor.

Row spacing

On A4—36 to 42-inch rows (Set 40 inches at factory).

On A2—28 to 42-inch rows (Set 40 inches at factory).

Cultivator weight

A2— 880 pounds (approximately).

A4—1550 pounds (approximately).

Optional equipment for A2 Cultivator

No. 2 lift pipe and adjusting levers.

Front rig equipment for A2 Cultivator

Eight double spring-tooth shanks with Y786AN shovels.

Eight friction-trip shanks with Y786AN shovels.

Eight single spring-tooth shanks with Y722AN shovels.

Eight regular spring-trip shanks with Y786AN shovels.

Eight quick-adjustable spring-trip shanks with Y786AN shovels.

Front rig equipment for A4 Cultivator

Eighteen double spring-tooth shanks and Y786AN shovels.

Eighteen friction-trip shanks and Y786AN shovels.

Eighteen single spring-tooth shanks and Y722AN shovels.

Eighteen regular spring-trip shanks and Y786AN shovels.

Eighteen quick-adjustable spring-trip shanks and Y786AN shovels.

Rear rigs

Tool bar type

50A Series Tool Bar type for 3-point hitch.

NOTE: The 50A Series Rear Rig is the only rear rig that will work with the 3010 Row-Crop Utility Tractor.

With 3-point hitch mounted center rig

110A and 110B Series Parallel Lift Type.

130A and 130B Series Straight Lift Type.

150A Series Offset Beam Type.

With drawbar mounted center rig

120A and 120B Series Parallel Lift Type.

140A and 140B Series Straight Lift Type.

160A Series Offset Beam Type.

A "B" Series or 50A Series Rear Rig is recommended for use when tractor is equipped with cane and rice tires.

Shank equipment for rear rigs

Regular spring-trip shanks.

Quick-adjustable spring-trip shanks.

Single spring-tooth shanks.

Friction-trip shanks.

Double spring-tooth shanks used on 56A Rear Rig only.

Gauge wheels

Castering (Regular on A4 Cultivator).

Rigid (Optional on A4 Cultivator).

Sweeps and shovels

A wide variety of types and sizes available.

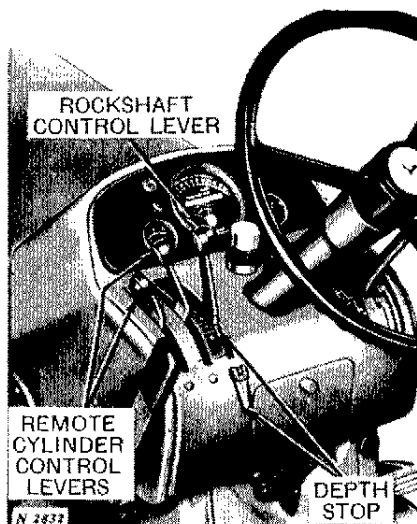
Special equipment

No. 1 Center Attachment	AB690E and AB690F Bean Har-
No. 21 Spring-Tooth Attachment	vesters (A2 only)
No. 1 Knife Attachment	96E Peanut Puller (A2 only)
No. 3A Rotary Hoe Attachment	24B and 25B Unit Planters for use
No. 1 Listed Crop Attachment	with 50A Rear Rig
Spread Arch	Shields—frame mounted, rig
Spread Bar	mounted, hooded
Rig Bar	
Disk Hillers	
Rear Rig Stop	

(Specifications and design subject to change without notice.)

Operation

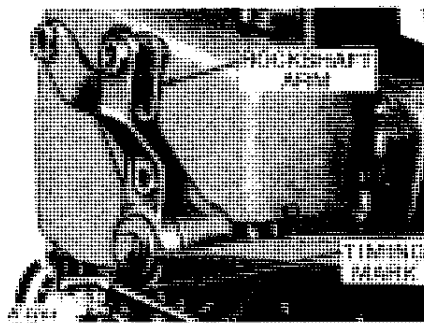
Controls



The A2R and A4R Cultivator is controlled by the rockshaft control lever on the tractor. Push the lever forward to raise the cultivator (both front and rear rigs) and pull it to the rear to lower the cultivator. Use the depth stop to regulate the working depth of the cultivator. See your tractor operator's manual.

On the A2F or A4F Cultivator, the front rigs are controlled by the remote cylinder operating levers. The rear rigs are controlled by the rockshaft control lever. Install hydraulic cylinders and operate the hydraulic controls as instructed in your tractor operator's manual.

Timing rockshaft arm (A2R and A4R Cultivators only)



It is important that the rockshaft arms are properly timed. If the cultivator is equipped with a rear rig and the arms are not timed, the front and rear rigs will not operate at the same depth.

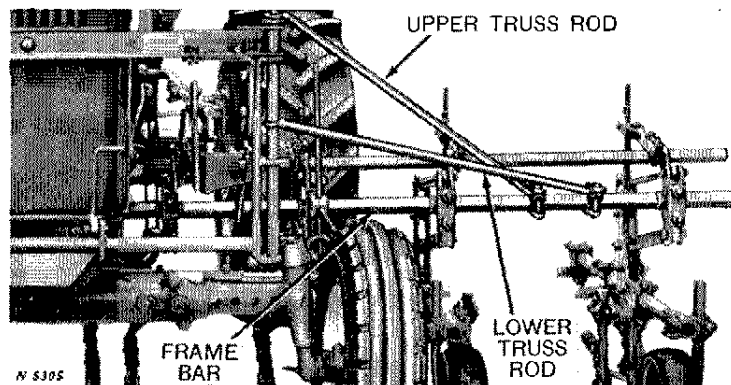
The rockshaft arm is timed properly when the raised mark on the arm is in line with the timing mark on the tractor rockshaft.

Tractor tire inflation

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

Leveling front frames

A4 Cultivator



Make sure the front frames of the cultivator are level with respect to the tractor. To do this, stand in front of the tractor and sight under the tractor axle and over the frame bar.

To raise the outer end of the frame, move the upper truss rod bracket away from the tractor. To lower the outer end of the frame, move the upper truss rod bracket toward the tractor.

To move the frame forward, move the lower truss rod bracket away from the tractor. To move the frame to the rear, move the lower truss rod bracket toward the tractor.

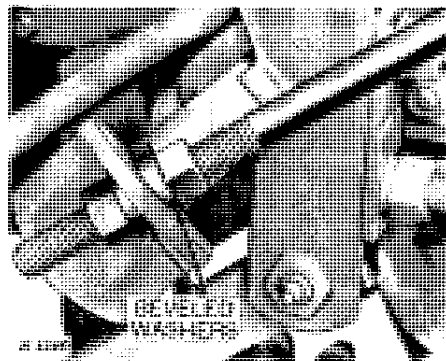
Tighten all nuts on the truss rods securely.

Safety is more than a slogan.

It is an attitude of mind,
and a way of life.

A2 Cultivator

To determine whether or not the front frames of the A2 Cultivator are level with the tractor, stand in front of the tractor and sight under the tractor axle and over the front frame bar.



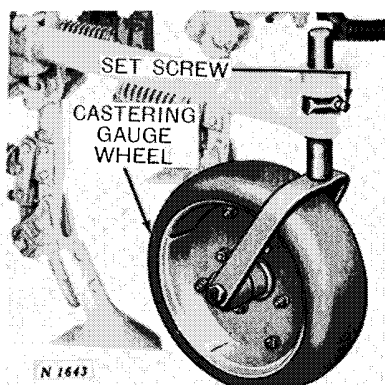
Adjust the hex. nuts on the truss rods until the frame is parallel and level with the tractor axle. Adjust beveling washers so truss rods don't bend.

Gauge wheels on A4 Cultivator

The gauge wheels on the outside rigs determine the depth of the cultivator. Set all gauge wheels to operate at the same depth.

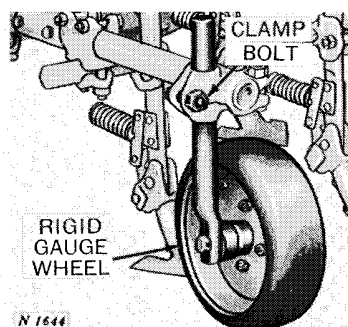
Two types of gauge wheels are available—the casting gauge wheels shown below and the rigid type shown at the right.

Casting gauge wheel



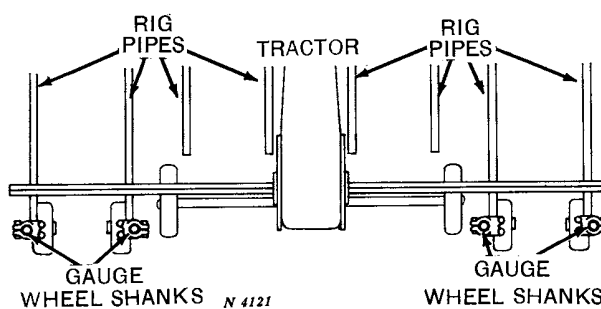
Loosen the set screw and adjust the cultivating depth by setting the gauge wheels 1 to 2 inches above the floor or ground.

Rigid gauge wheel



Adjust the rigid gauge wheel for a working depth of approximately 1 to 2 inches by loosening the clamp bolt and moving the shank to the desired position.

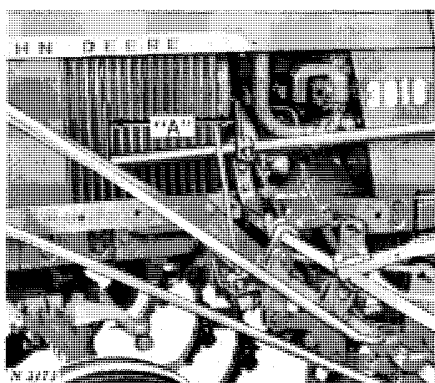
The rigid gauge wheels should be attached so that the wheels are under the rig pipes as shown above and the shanks are positioned to the right and left of the rig pipes as shown below.



Height of lift of front rigs

Adjustments are provided on the lift rods and lift pipes to secure the correct height of lift. Make these various adjustments on the cultivator as shown, if necessary.

Lift pipe on A2R and A4R Cultivators

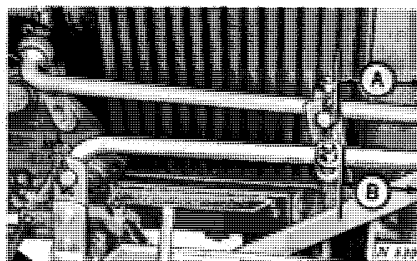


Set the distance "A" from the end of the lift pipe to the clamp, on both sides of the tractor, to 14 inches on the 3010 Tractor and 8 inches when the A2 or A4 Cultivator is on the 4010 Tractor.

See page 18 for instructions for using lift pipe with adjusting lever.



Lift rod on A2F and A4F Cultivators



There are two places where adjustments can be made when using a front-mounted rockshaft.

Set the distance between the end of the rod and the clamp at "A" and "B" according to the chart below.

Tractor	"A"	"B"
3010 Row-Crop	5"	4"
3010 Row-Crop Utility	5"	4"
4010 Row-Crop	6"	2"



On both tractors, set the hydraulic cylinder stop 1/2-inch from the cylinder yoke for average conditions.

All cultivators

Raise the cultivator slowly for the first time. If the cultivator hits the tractor, or the rig pipes hit the lower rig links, loosen all the upper collars on the rig lift rods and set as described on the next page.

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