

AT4 Four-Row AT6 Six-Row Row-Crop Cultivator



JOHN DEERE

OPERATORS MANUAL

AT4 Four-Row AT6 Six-Row Row-Crop
Cultivator

OMN97540 (01JUL62) English

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LITHO IN U.S.A.
ENGLISH



To the purchaser



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.

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,

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 AT4, FOUR-ROW AND AT6, SIX-ROW CULTIVATORS

Cultivator Model

Date Purchased 19

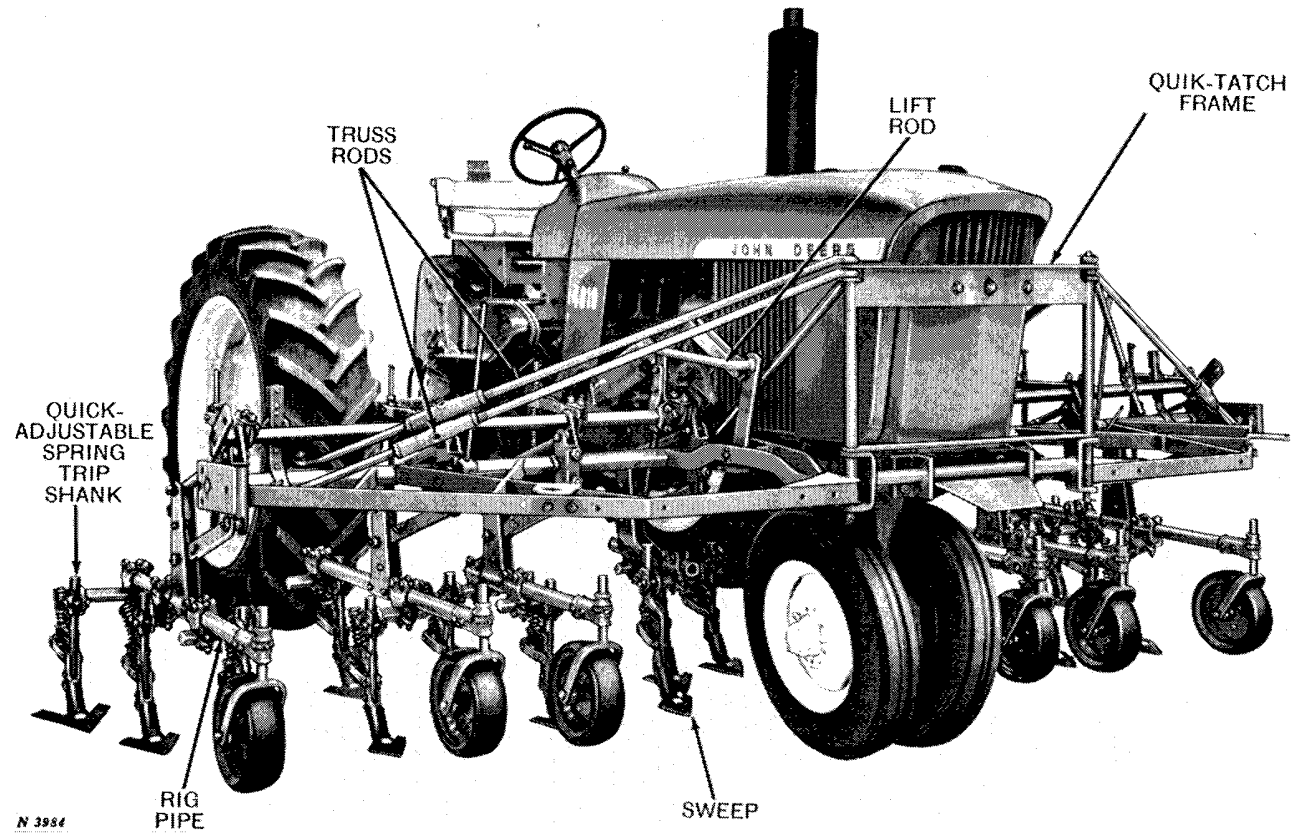
(To be filled in by Purchaser)

Price \$.75

DEERE & COMPANY ARCHIVES 1962

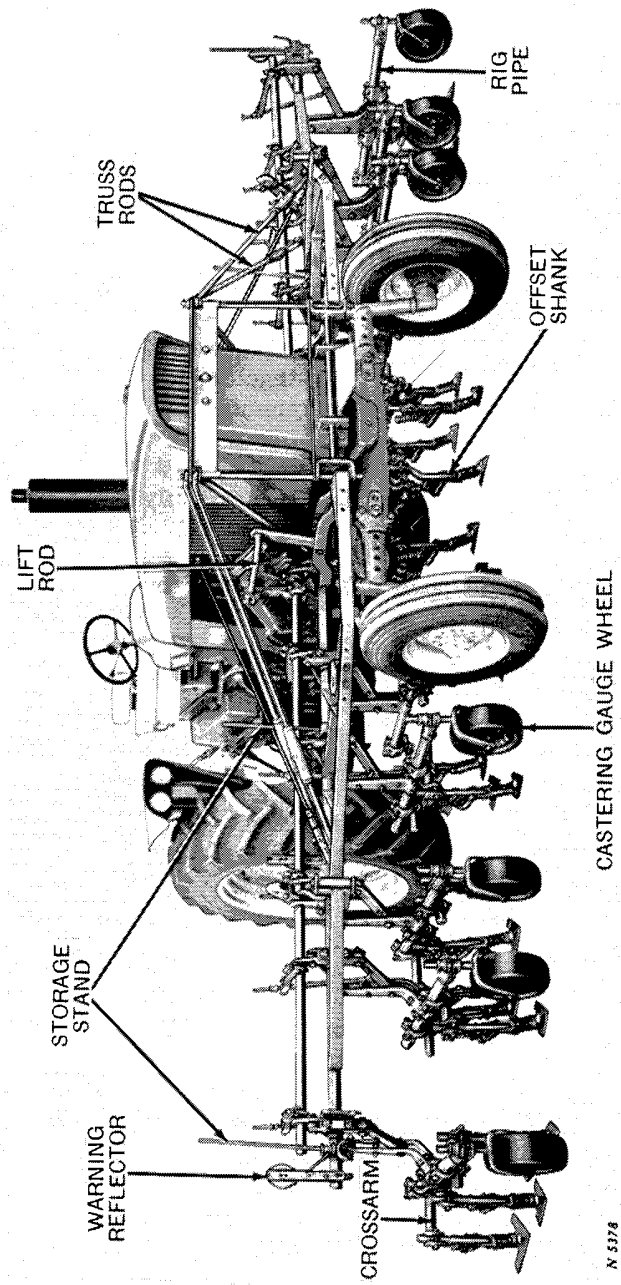
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N 3984

*John Deere AT4F Cultivator with inside gauge wheels (special equipment)
on John Deere 4010 Tractor with double front wheels*



N 5378

John Deere AT6F Cultivator on John Deere 4010 Tractor
with adjustable tread front axle

Specifications

- Tractor John Deere 3010 and 4010 Row-Crop Tractors equipped with adjustable tread front axle, double front wheels (with or without roll-o-matic), or a single front wheel.
 3010 Tractors for AT4 Cultivators must be equipped with 6.00 x 14-6 ply, 6.00 x 16-6 ply or 7.50 x 15-6 ply front tires.
 4010 Tractors for AT4 Cultivators must be equipped with 6.00 x 16-6 ply or 7.50 x 15-6 ply front tires.
 3010 and 4010 Tractors for AT6 Cultivators must be equipped with 7.50 x 15-6 ply front tires.
- If roll-o-matic is used with 7.50 x 15-6 ply front tires on either tractor, the roll-o-matic must be the heavy-duty model.
- If either tractor is equipped with a single front wheel, an 11.00 x 12-12 ply front tire must be used.
- Cultivator Models AT4R and AT6R operated by rear rockshaft on tractor.
 AT4F and AT6F operated by front rockshaft on tractor.
- Row Spacing 36 - 40-inch rows (set 40 inches at factory).
- Front Rig Equipment for AT4 Cultivator
 RE-39 Regular Spring-Trip Shanks and Y786AN Shovels (18).
 RE-40 Quick-Adjustable Spring-Trip Shanks and Y786AN Shovels (18).
- Front Rig Equipment For AT6 Cultivator
 RE-46 Regular Spring-Trip Shanks and Y786AN Shovels (28).
 RE-47 Quick-Adjustable Spring-Trip Shanks and Y786AN Shovels (28).
- Cultivator Weight AT4 - 1850 pounds (approximately)
 AT6 - 2575 pounds (approximately)

Rear Rigs Various Types are Available.

Tool Bar Type-50A Series Tool Bar Type for 3-Point Hitch.
With 3-Point Hitch Mounted Center Rig.

110A and 110B Series Parallel Lift Type
130A and 130B Series Straight Lift Type

With Drawbar Mounted Center Rig.

120A and 120B Series Parallel Lift Type
140A and 140B Series Straight Lift Type

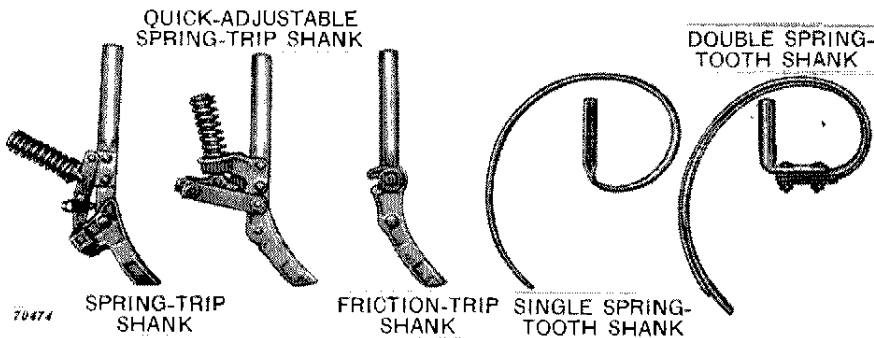
A "B" Series or 50A Series Rear Rig is recommended for tractors equipped with cane and rice tires.

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)
Rigid (Optional)

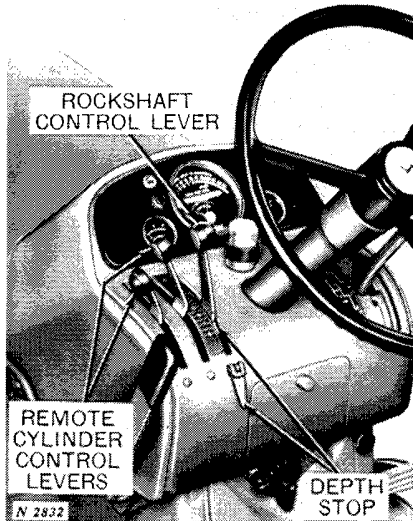
Special Equipment Six-Row Attachment (for AT4 Cultivator only)
Rig Mounted Shields
Rig Bar
Two Castering or Rigid Gauge Wheels (can be used only when cultivator is on a double or single front wheel tractor)
Rotary Hoe
Rear Rig Stop



(Specifications and design subject to change without notice.)

Operation

Controls

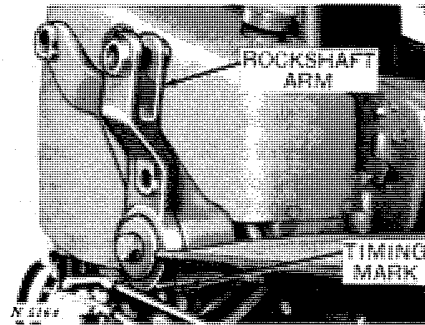


The AT4R and AT6R Cultivators are controlled by the rockshaft control lever on the tractor. Push the lever forward to raise the cultivator (both front and rear rigs) and pull it to the rear to lower the cultivator. Use the depth stop to control the working depth of the cultivator. See your tractor operator's manual.

The front rigs of AT4F or AT6F Cultivators are controlled by the remote cylinder operating levers. Push the levers forward to raise the cultivator and to the rear to lower the cultivator.

The rear rigs are controlled by the rockshaft control lever. Install and operate the hydraulic controls as instructed in your tractor operator's manual.

Timing rockshaft arm (AT4R and AT6R 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 properly timed when the timing mark on the arm is in line with the timing mark on the tractor rockshaft.

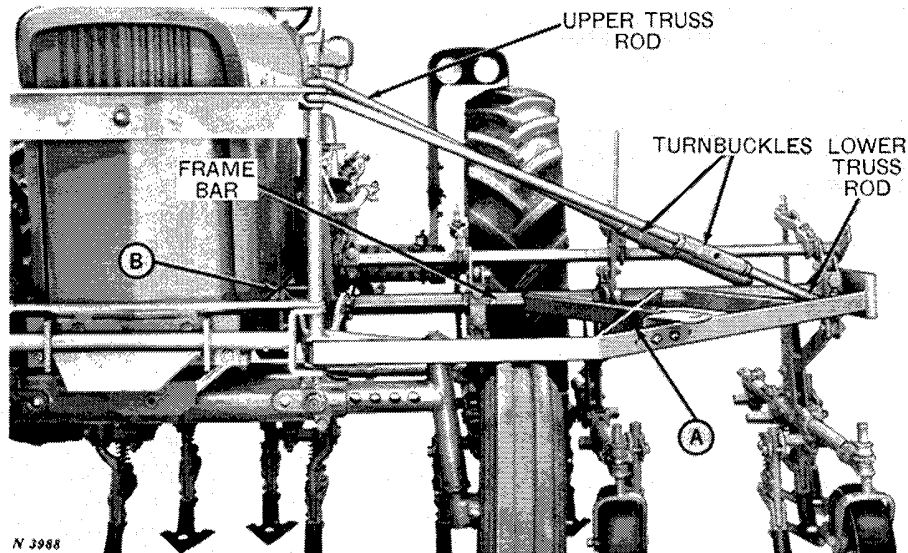
Tractor tire inflation

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

Keep your cultivator a John Deere cultivator

Genuine John Deere shovels and sweeps have more and better material in points and wearing surfaces. They fit better, stay sharp longer, and save you money. Buy your shovels and sweeps from your John Deere dealer.

Leveling front frame



In order to do a good job of cultivating, the front frames of the cultivator must be level.

To check to see if they are level, stand in front of the tractor and sight just over the cultivator frame bar and under the tractor rear axle.

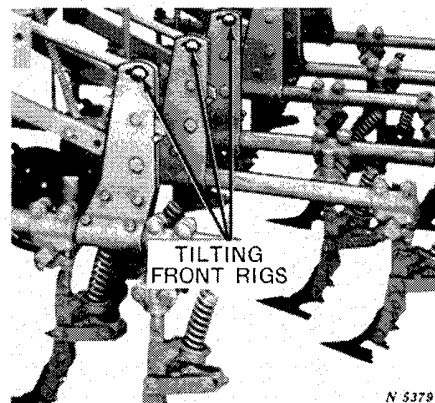
If the frame is not level, adjust the turnbuckles on the truss rods.

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

The cultivator also must be level fore-and-aft. To see if it is level this way, stand at the front side of the cultivator and look in towards the tractor. Sight along the cultivator frame at "A" and see if it is parallel with the tractor side cowl at "B."

Adjust the truss rods, if the frame is not parallel, and tighten the turnbuckle lock nuts.

Tilting front rigs



Each rig can be tilted up or down 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.

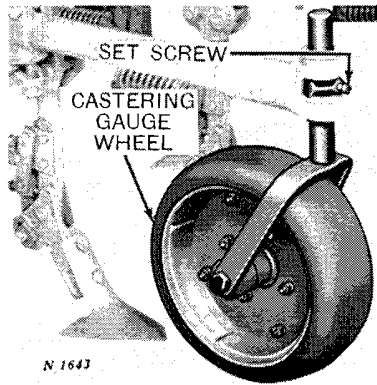
Sight across the rig pipes from the side of the cultivator to see that they are the same height and tilted the same.

Gauge wheels

The gauge wheels determine the depth of cultivation. Set all gauge wheels to operate at the same depth.

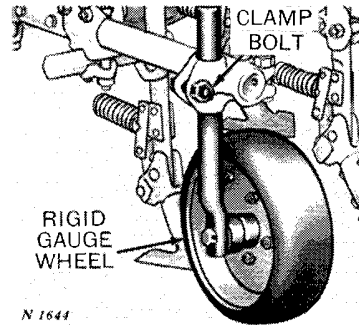
Two types of gauge wheels are available—the castering gauge wheels shown below and the rigid type shown at the right.

Castering 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.

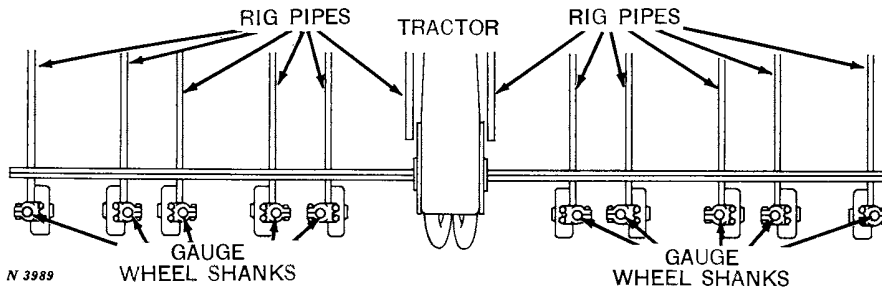
Rigid gauge wheel



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.

It may be necessary, for 36- or 38-inch rows, to move the gauge wheel shank to the opposite side of the rig pipe to avoid interference between the shank and cultivator frame when the cultivator is raised.



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