

**AT4, AT43 FOUR-ROW
AT6, AT63 SIX-ROW
AT83 EIGHT-ROW
ROW-CROP
CULTIVATORS**



JOHN DEERE

OPERATORS MANUAL

**AT4, AT43 FOUR-ROW AT6, AT63 SIX-ROW
AT83 EIGHT-ROW ROW-CROP
CULTIVATORS**

OMN159130 I6 English

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LITHO IN THE 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, AT6, AT43, AT63 AND AT83 CULTIVATORS

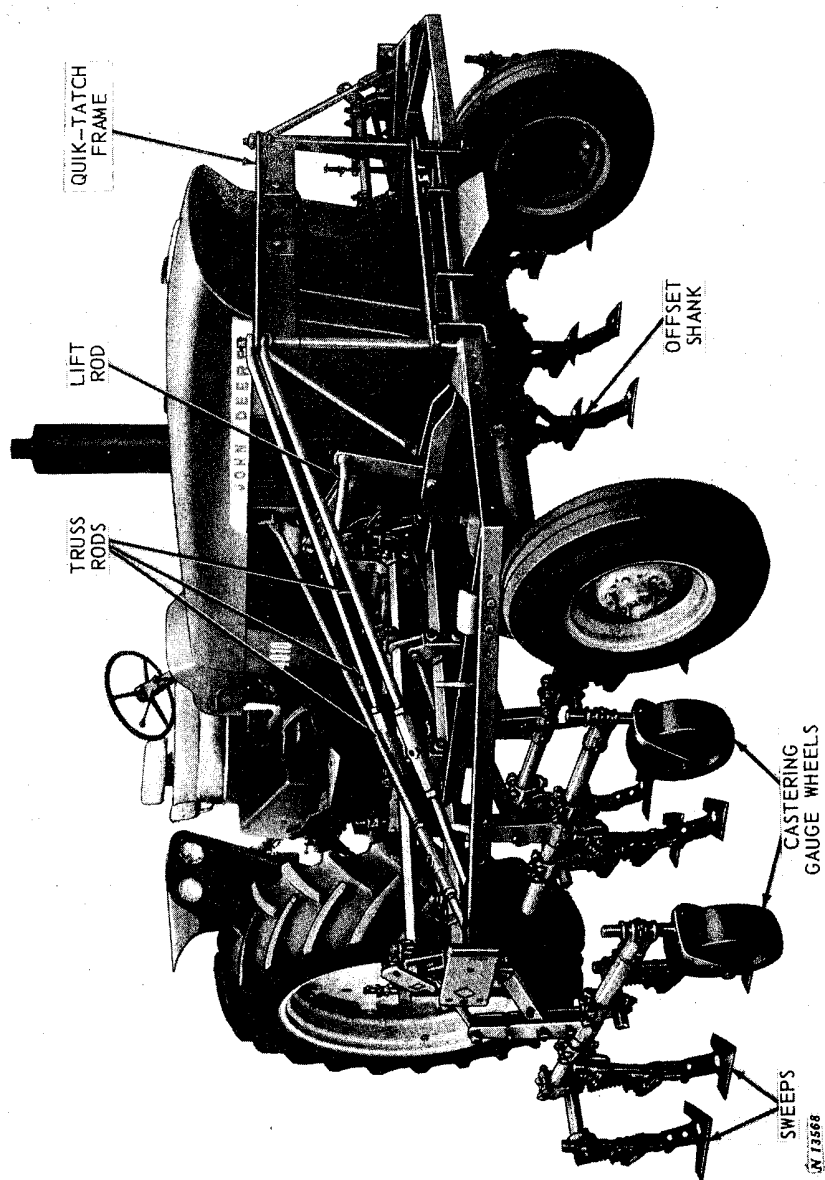
Cultivator Model

Date Purchased 19

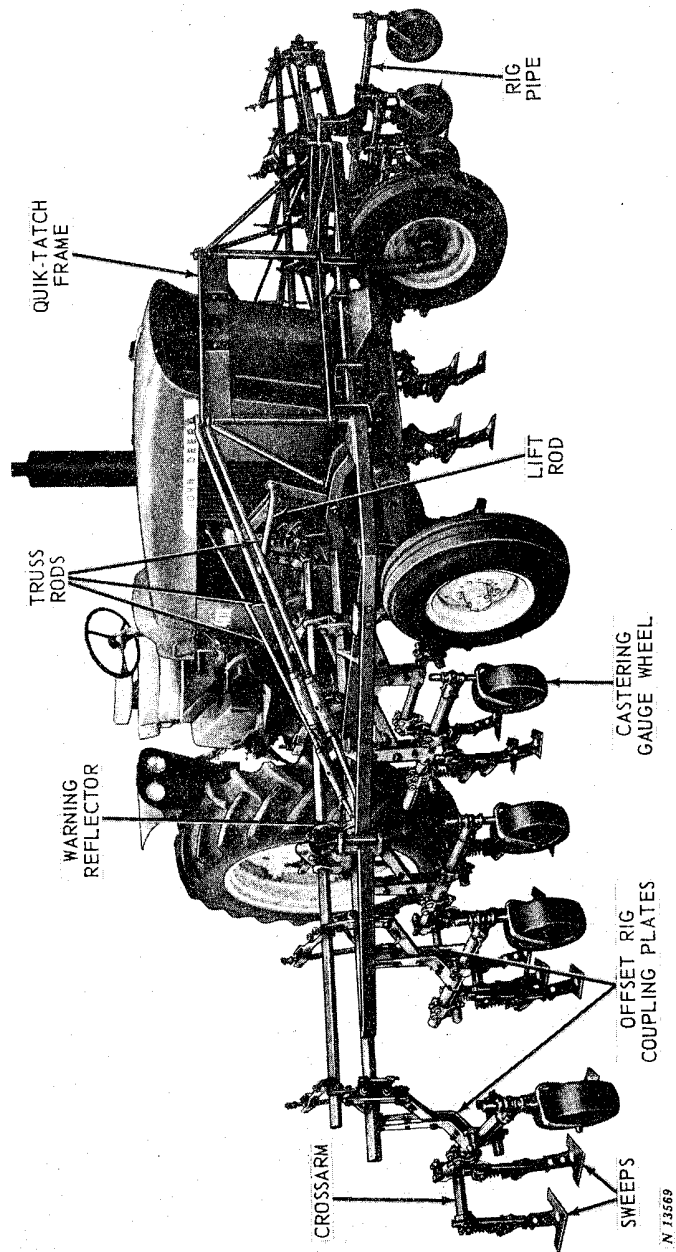
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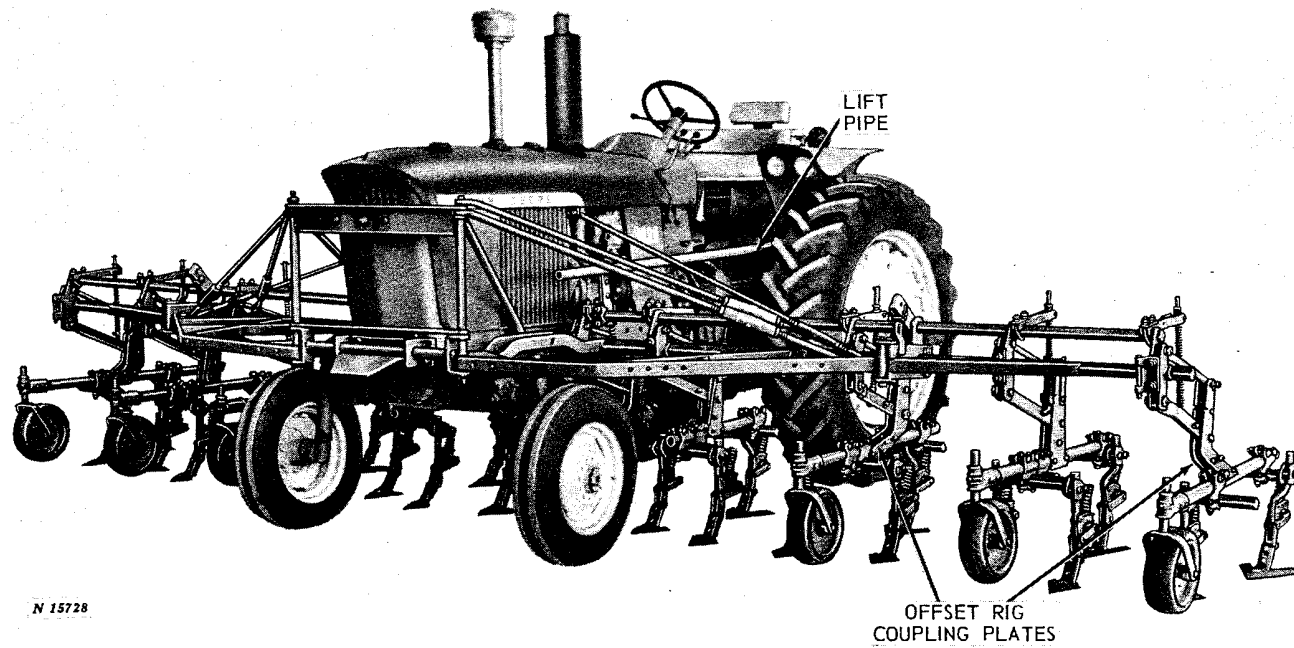
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*John Deere AT4F Cultivator with Quick-Adjustable Springs-Trip Shanks
on John Deere 4010 Tractor with Adjustable Tread Front Axle*



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



N 15728

*John Deere AT83R Cultivator on John Deere 3020 Tractor
with adjustable tread front axle*

Specifications

Tractor

AT4, AT43 and AT63 cultivators

John Deere 2510, 3010, 3020, 4010 or 4020 Row-Crop Tractor with adjustable tread front axle, dual front wheel (with or without Roll-O-Matic) or single front wheel.

Tractor must be equipped with 6.00 x 16, 6-ply or 7.50 x 15, 6-ply front tires.

NOTE: 6.00 x 14, 6-ply front tires may be used on 2510, 3010 or 3020 Tractor with AT4 or AT43 Cultivator.

AT6 and AT83 cultivators

John Deere 3010, 3020, 4010 or 4020 Row-Crop Tractor with adjustable tread front axle, dual front wheel (with or without Roll-O-Matic) or single front wheel.

Tractor must be equipped with 7.50 x 15, 6-ply front tires.

All cultivators—

If Roll-O-Matic is used with 7.50 x 15, 6-ply front tires on tractor, the Roll-O-Matic must be the heavy-duty model.

If tractor is equipped with a single front wheel, an 11.00 x 12, 12-ply front tire must be used.

Cultivator models

AT4R, AT6R, AT43R, AT63R and AT83R are operated by tractor rear rockshaft.

AT4F, AT6F, AT43F, AT63F and AT83F are operated by tractor front rockshaft.

Row spacing

AT4 and AT6 - 36 to 40-inch rows.

AT43, AT63 and AT83 - 30-inch rows.

Front rig equipment

AT43 Cultivator - 12 regular or quick-adjustable spring-trip shanks with universal sweeps.

AT4 and AT63 Cultivators - 18 regular or quick-adjustable spring-trip shanks with universal sweeps.

AT83 Cultivator - 24 regular or quick-adjustable spring-trip shanks with universal sweeps.

AT6 Cultivator - 28 regular or quick-adjustable spring-trip shanks with universal sweeps.

Cultivator weight

AT4 - 1850 pounds (approximately)

AT6 - 2575 pounds (approximately)

AT43 - 1700 pounds (approximately)

AT63 - 2000 pounds (approximately)

AT83 - 2270 pounds (approximately)

Toolbar type for 3-point hitch

50A and 50B Series

Axle-mounted type with 3-point hitch mounted center rig

110A and 110B Series with parallel lift (AT4 and AT6 only)

130A and 130B Series with straight lift (AT4 and AT6 only)

150A Series with offset beams (AT43, AT63 and AT83 only)

6 specifications

Axle-mounted type with drawbar mounted center rig

- 120A and 120B Series with parallel lift (AT4 and AT6 only)
- 140A and 140B Series with straight lift (AT4 and AT6 only)
- 160A Series with offset beams (AT43, AT63 and AT83 only)

NOTE: Only "B" Series (except 50B) and 50A Series rear rigs are recommended for use on tractors equipped with cane and rice tires.

Rear rig shank equipment

- 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
- Long Regular Spring-Trip Shanks used on 52A Rear Rig Only
- Long Quick-Adjustable Spring-Trip Shanks used on 53A Rear Rig Only

Gauge wheels

- Castering (Regular)
- Rigid with anti-friction bearing (Optional)

Special equipment

- Rig-mounted shields
- Rotary hoe
- Weeding knife shanks
- Rear Rig Stops
- Support stands

AT4 only

- No. 6 six-row attachment
- No. 4 minimum tillage attachment

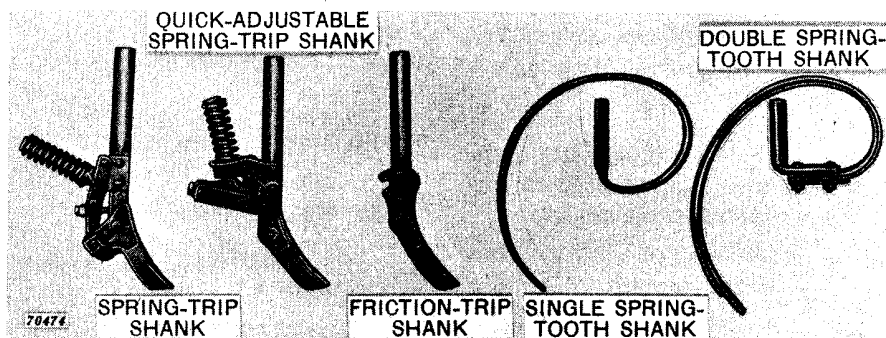
AT6 only

- No. 6 minimum tillage attachment

AT4 and AT6 only

- Two gauge wheels (for cultivator on dual or single front wheel tractor)

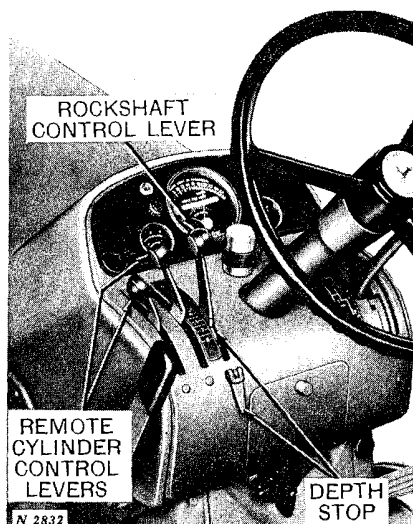
- Rig bars for vegetable cultivation



(Specifications and design subject to change without notice.)

Operation

Controls



Rear-rockshaft-operated 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. See your tractor operator's manual.

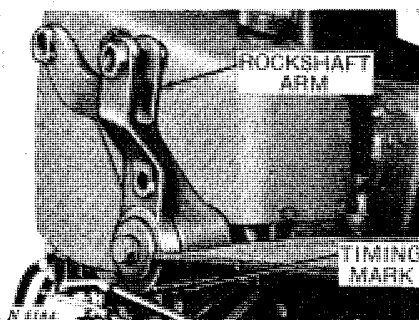
The front rigs of front-rockshaft-operated cultivators are controlled by the remote cylinder operating levers. Push the levers forward to raise the cultivator and to the rear to lower the cultivator.

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

Tractor tire inflation

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

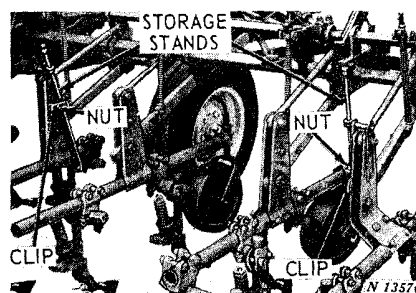
Timing rear rockshaft arms



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.

Storage stands



Always make sure the storage stands are secured behind the clips on the rig coupling plates, as shown above, before raising the cultivator. Failure to follow this precaution will result in damage to the cultivator.

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