

AT-4-6BV BEET BEAN-VEGETABLE CULTIVATOR



JOHN DEERE

OPERATORS MANUAL AT-4-6BV BEET BEAN-VEGETABLE CULTIVATOR

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To the purchaser

This manual contains valuable information about your new John Deere 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.

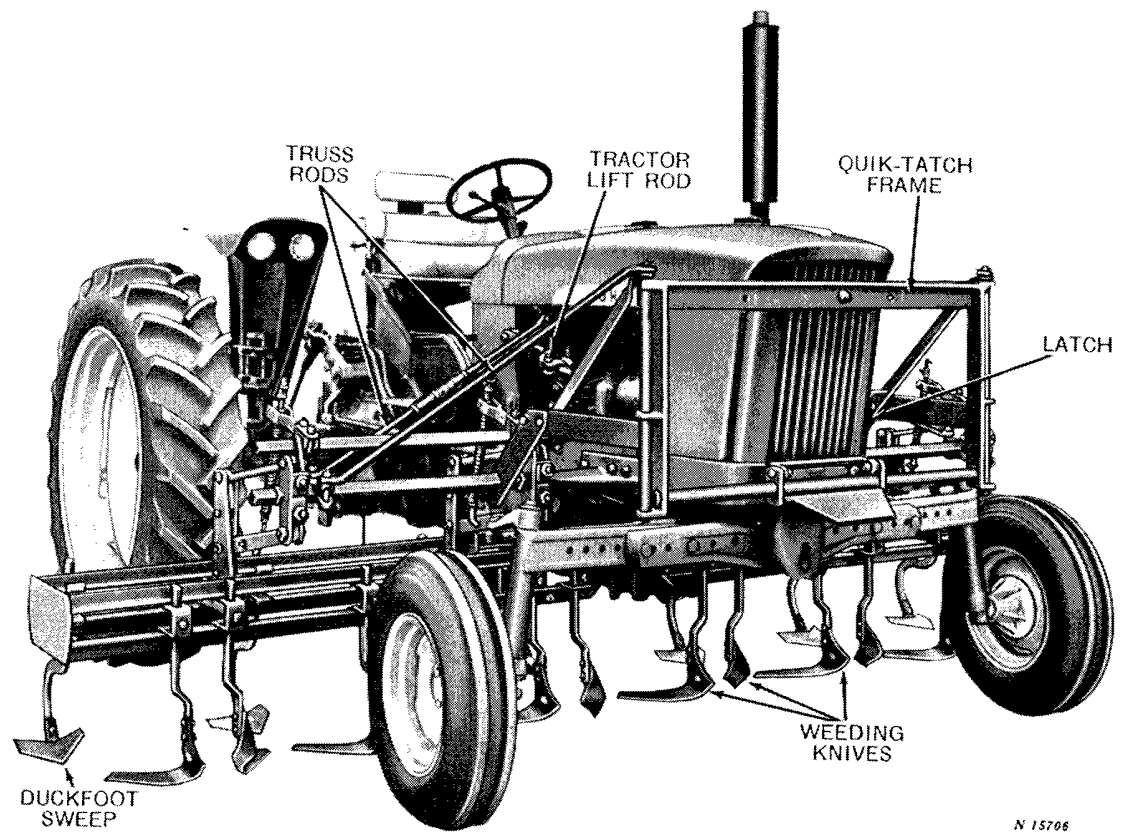
JOHN DEERE AT4-6BV FOUR- OR SIX-ROW CULTIVATOR

Date Purchased.....19.....
(To be filled in by Purchaser)

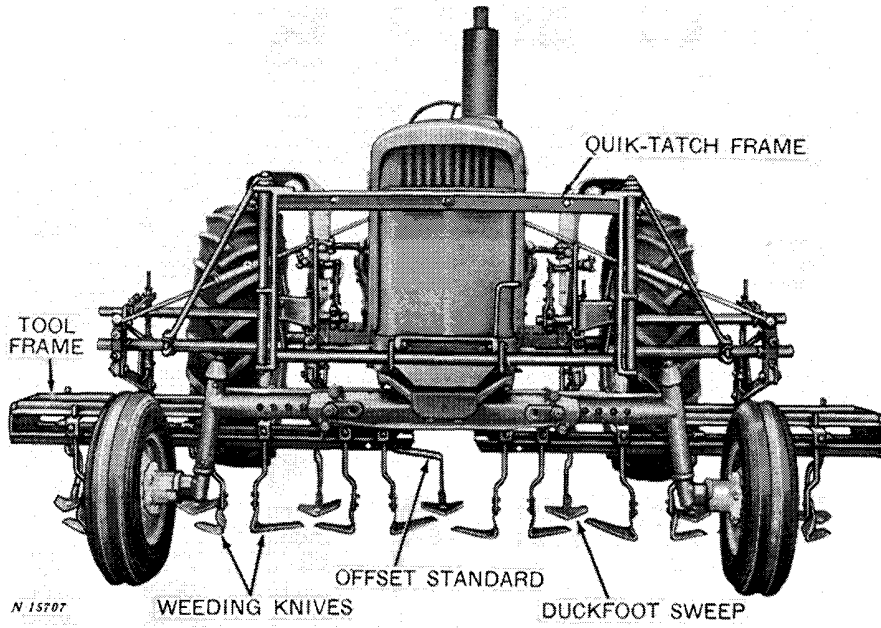
Price

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John Deere AT4-6BV Cultivator with Weeding Knives and Duckfoot Sweeps on 2010 Tractor



*John Deere AT4-6BV Cultivator with Weeding Knives and Duckfoot Sweeps
on 3010 Tractor*

Specifications

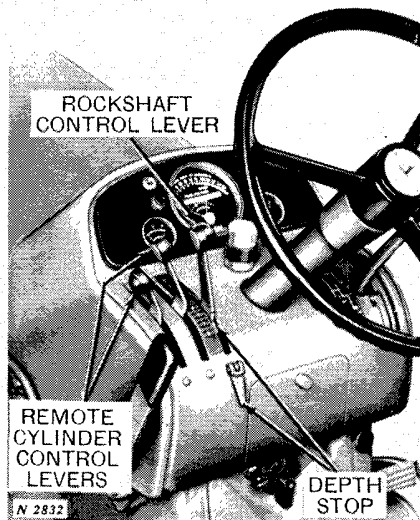
- Tractor John Deere 2010, 2510, 3010, 3020, 4010, and 4020 Row-Crop Tractors with Dual or Single Front Wheels or with Adjustable Tread Front Axle.
- Cultivator Models . . . AT4-6BV-R Operated by Rear Rockshaft on 2510, 3010, 3020, 4010, and 4020 Tractors. AT4-6BV-F Operated by Front Rockshaft on 2010, 2510, 3010, 3020, 4010, and 4020 Tractors.
- Cultivator Weight . . . 1150 pounds (approximately)
- Row Spacing When set for six rows—20- or 22-inch rows.
When set for four rows—24- to 34-inch rows.
- Standards Straight or curved rigid, spring-trip or pin break for sweeps and irrigating or double-point shovels. 1-1/2-inch offset for weeding knives, diskweeders and bed knives; spear-point.
Only the regular standards can be used on this cultivator. Long and high clearance standards cannot be used.
Offset center standard can be used when rear tool frame is not used.
- Tool equipment Weeding Knives:
Round turn—6-, 8-, 10-, and 12-inch.
Square turn—6- and 8-inch.
Low point—6- and 8-inch.
- Sweeps:
Extra flat duckfoot sweep—6-, 8-, 10-, and 12-inch.
Flat sweeps—4-, 5-, 6-, 8-, 10-, and 12-inch.
- Shovels:
Irrigating shovels—6- and 7-inch.
Double point shovels.
- Spear Points
Bed Knives
Disk Weeders
Shields
- Extra Equipment . . . Rotary hoe attachment.
Clod breaker attachment.
Gauge wheels and chains (steel or rubber).
Cultivator stand and support.
Rear tool frames—
91 inch (BN60163N)
124 inch (No. 125)
136 inch (No. 135)
AB690E and AB690F Bean Harvester Attachment
12E, 13B, and 14C Vine Turners

(Specifications and design subject to change without notice.)

Operation

Controls

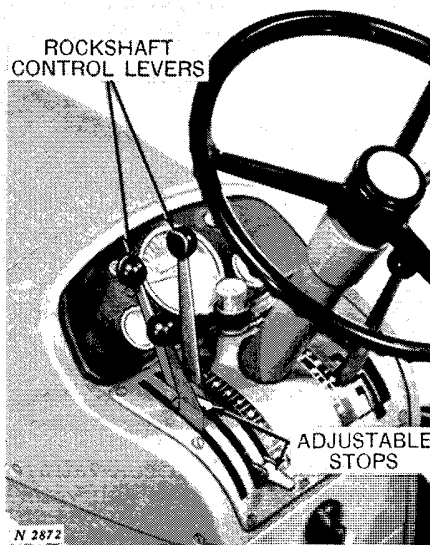
2510, 3010, 3020, 4010, and 4020 Tractors



The AT4-6BV-R Cultivator on a 2510, 3010, 3020, 4010, or 4020 Tractor is controlled by the rockshaft control lever on the tractor. Push the lever forward to raise the cultivator 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.

When the AT4-6BV-F Cultivator is on a 2510, 3010, 3020, 4010, or 4020 Tractor, the front frames are controlled by the remote cylinder operating levers. If rear frames are used, they are controlled by the rockshaft control lever. Install hydraulic cylinders and operate the hydraulic controls as instructed in your tractor operator's manual.

2010 Tractor

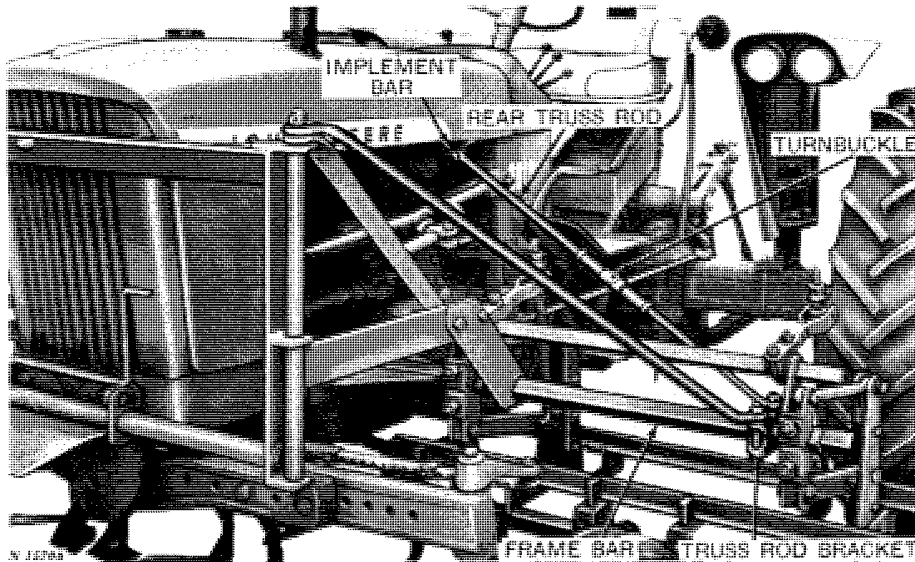


The AT4-6BV-F Cultivator on the 2010 Tractor is controlled by the rockshaft control levers. When the dual hydraulic system, of tractor having dual control front rockshaft, is set for independent lift arm operation and the front rockshaft is "split," the front frames can be raised and lowered independently. If a rear frame is used, however, it is raised and lowered with the right-hand frame.

When the dual hydraulic system is set for parallel lift arm operation, all frames are raised and lowered at the same time. See your tractor operator's manual for instructions regarding independent and parallel lift arm operation.

6 operation

Leveling frame bars

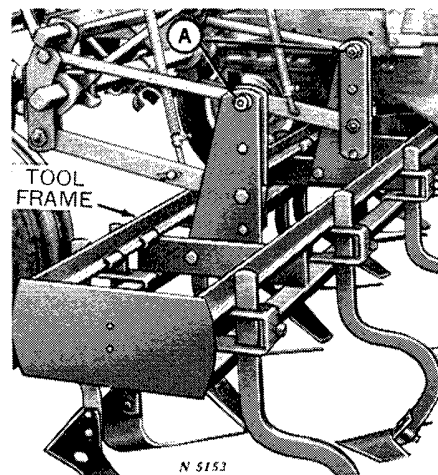


To do a good job of cultivating, both frame bars of the cultivator must be level.

To determine if the cultivator is level, raise the cultivator and sight along the frame bar.

If the cultivator is not level, adjust the turnbuckle on the rear truss rod until the cultivator is level. For best results, adjust the turnbuckle with the cultivator resting on the ground. Secure the turnbuckle in place with the lock nuts.

Tilting tool frames



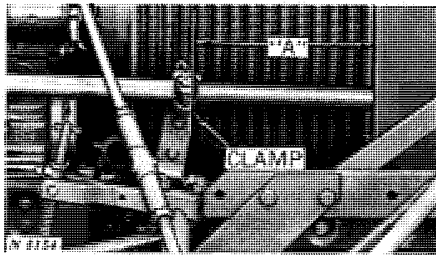
Each tool frame can be tilted at "A" (above) to change the pitch or suction of tools.

Sight across the tool frames from the side of the cultivator to see that both frames are tilted the same.

Height of lift of front tool frames

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

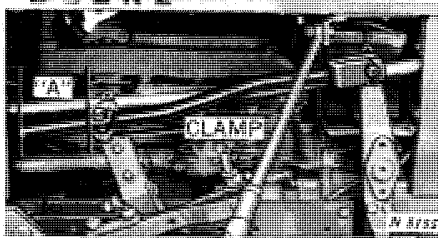
Lift pipe for AT4-6BV-R Cultivator on 2510, 3010, 3020, 4010, or 4020 Tractor



The lift pipes may be either 86-1/2 inches or 84-1/2 inches long. If the lift pipe is 86-1/2 inches long, the distance "A" from the end of the pipe to the clamp (on both sides of the cultivator) should be 14 inches on 2510, 3010, and 3020 Tractors, 7 inches on 4010 Tractor and 6 inches on 4020 Tractor.

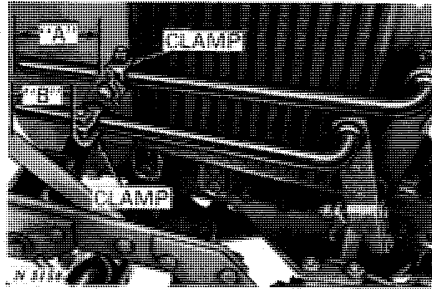
If the lift pipe is 84-1/2 inches long, the dimension "A" should be 12 inches on 2510, 3010, and 3020 Tractors, 5 inches on 4010 Tractor and 4 inches on 4020 Tractor.

Lift rod for AT4-6BV-F Cultivator on 2010 Tractor



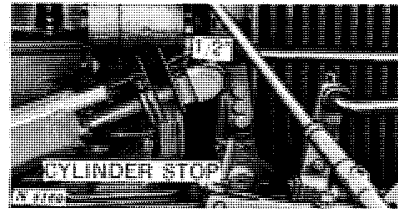
Set the distance "A" from the end of the lift rod to the clamp at four and one-half inches when the cultivator is mounted on the 2010 Tractor.

Lift rod for AT4-6BV-F Cultivator on 2510, 3010, 3020, 4010, or 4020 Tractor



The distance "A" from the end of the lift rod to the clamp should be two inches when the cultivator is on a 2510, 3010, or 3020 Tractor; three inches when on a 4010 or 4020 Tractor.

The setting "B" on the secondary lift rod should be four inches from the end of the rod to the clamp on the 2510, 3010, and 3020 Tractors, and one inch on the 4010 and 4020 Tractors.

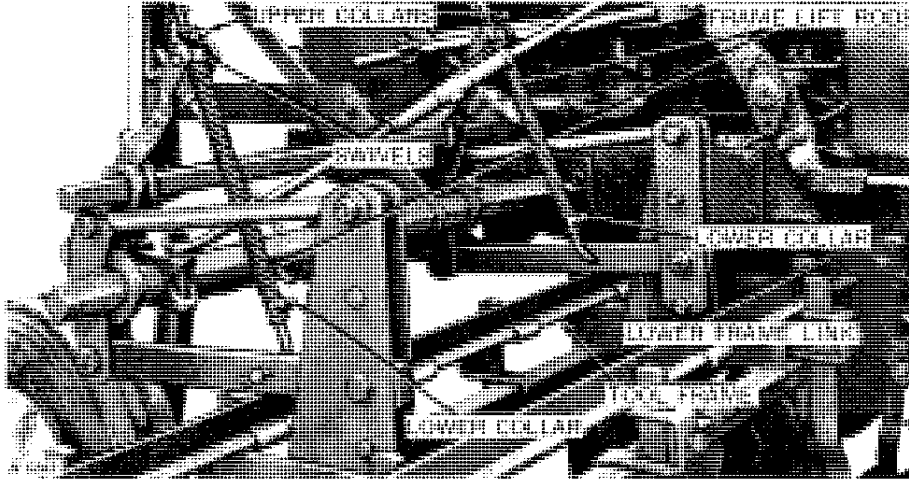


On 2510, 3010, 3020, 4010, or 4020 Tractor, set the hydraulic cylinder stop 1/2-inch away from the cylinder yoke for average conditions.

All cultivators

When raising the cultivator for the first time, raise it slowly. If the cultivator hits the tractor or the tool frame hits the lower frame link, loosen the upper collars on the frame lift rods. Adjust the upper collars as instructed on the next page before raising the cultivator again.

Frame lift rods and collars



Height of lift

To set the cultivator for the highest possible lift, raise it to its fully raised position making sure the cultivator doesn't hit the tractor. For additional lift, if needed and obtainable, raise the beet and bean frame evenly as high as possible by hand or mechanical jack and set the upper collars down next to the swivels as shown above.

When raising the cultivator make sure that the inner frame lift rods do not strike the rear truss rod on either side of the tractor.

If this does occur, shorten the distance at "A" on the lift pipes or lift rods (on page 7) until the inner frame lift rod does not come in contact with the rear truss rod.

Adjusting down pressure

Down pressure on the sweeps, knives, or shovels can be increased by raising the lower collars on the frame lift rods.

If no down pressure is desired, loosen the lower collars on the frame lift rods and let them slide down to the bottom of the rod. Secure the lower collars in place with the set screws.

Down pressure is desirable, when soil conditions do not allow for proper sweep, shovel, or knife penetration.

Adjusting depth of cultivation

The depth of cultivation can be adjusted by the depth stop on the cylinder of the front rockshaft operated cultivators when on 2510, 3010, 3020, 4010, and 4020 Tractors or by the depth stop on the rockshaft control lever of the rear rockshaft operated cultivators on 2010, 2510, 3010, 3020, 4010, and 4020 Tractors.

To go deeper with the front rockshaft operated cultivators, move the cylinder depth stop up next to the cylinder yoke.

For the rear operated rockshaft cultivators, adjust the quadrant depth stop to obtain the same effect as the front rockshaft operated cultivators.

NOTE: If gauge wheels are installed, they control the depth of cultivation. (See page 26.)

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