

11 One-Row Cotton Picker (Effective Serial No. 11-351)



JOHN DEERE

OPERATORS MANUAL

11 One-Row Cotton Picker (Effective
Serial No. 11-351)

OMN97506N (01AUG60) English

OMN97506N (01AUG60)

LITHO IN U.S.A.
ENGLISH



To the purchaser

Your new cotton picker was built to rigid manufacturing standards. Material and workmanship are the best. It will serve you in direct proportion to the care you give it. Depreciation, in a machine of this kind, is an item of expense that must be considered. How long it will last and continue its good work is a matter entirely in your hands.

The way you operate your cotton picker and the care you give it have much to do with the service and satisfaction you will get from it. This manual has been carefully prepared and illustrated to show you what to do and when to do it. It explains the adjustments that are built into the machine and gives instructions on when and how to make these adjustments. The information given in this manual will afford a clear understanding of the fundamentals of cotton picker harvesting. The best use of these fundamentals to suit the conditions in which the machine is operating is a responsibility that is completely up to the operator.

If you find you need information not covered in this manual or if your cotton picker requires special servicing, take advantage of the facilities offered by your John Deere dealer. He has trained mechanics, who are kept informed on the best methods of servicing and can give you prompt, "know-how" service in the field or in his shop.

Location References. "Right" and "Left," "Front" and "Rear" refer to the operator's "Right" or "Left" and "Front" or "Rear" when facing the same direction machine is headed or traveling.

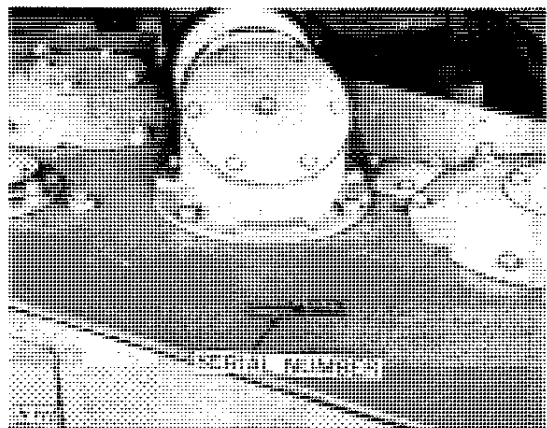
"Clockwise" refers to a shaft, screw, or similar part turning to the operator's "Right," or like the hands of a clock, "Counter-clockwise" refers to the operator's "Left."

Serial number

You will find the serial number of your cotton picker stamped on a plate located on the picking unit just behind the unit gear case. Write this serial number in the place provided below for handy reference later.

PICKER SERIAL No.

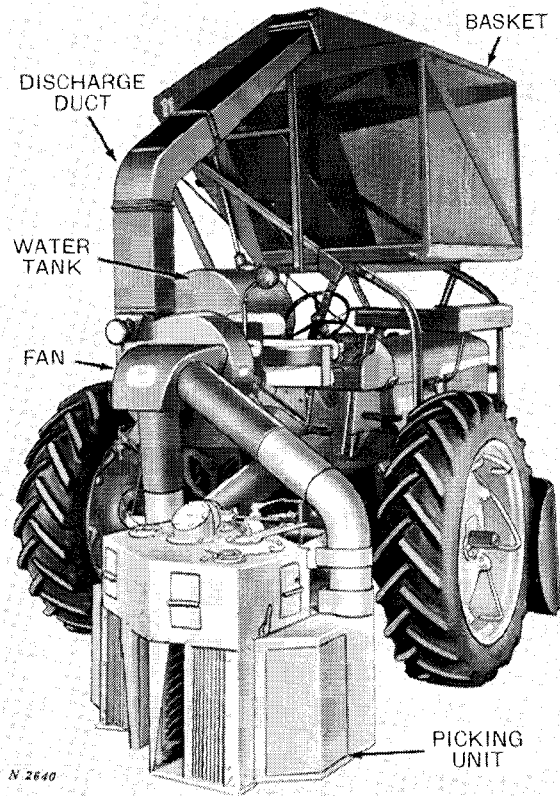
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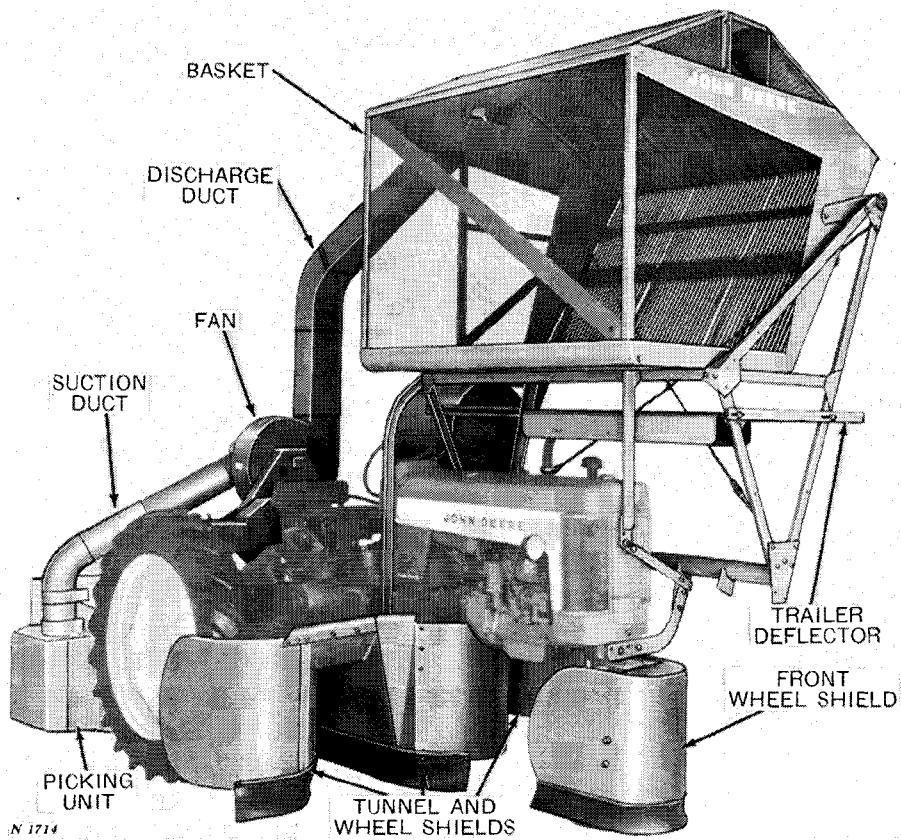


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Rear view of John Deere 11 Cotton Picker on John Deere 3010 Tractor



Front view of John Deere 11 Cotton Picker on John Deere 430 Tractor



specifications

ROW WIDTH

Will Pick . . . 36-, 38-, 40-, or 42-Inch Rows

PICKING UNIT

No. of Picker Drums 2
No. of Picker Bars:
Front Drum 12
Rear Drum 12
No. of Spindles:
Per Picker Bar 10
Total 240

GROUND SPEEDS (mph)

2010, 3010, and 4010 Tractors 2.5
530, 630, 730, 520, 620 and 720 Trac-
tors 2.25
430 and 420 Tractors 2.0
50 and 60 Tractors 2.25

PICKING UNIT SPEEDS (Speeds given for 530 Tractor equipped with 12.4 x 38 tires at 2.25 mph. Speeds for other tractors vary slightly.)

Drums 103 rpm
Doffers 1193 rpm
Spindles 2334 rpm
Fan 2429 rpm

CONTROLS

Picking Unit Lift Tractor Rockshaft
Basket Lift One Double Acting Hydraulic
Cylinder Operated by Trac-
tor Remote Cylinder Control
Lever

CAPACITIES

Cotton Basket 600 lbs. Seed Cotton
Water Supply Tank 25 U.S. Gallons

TRACTOR MOUNTINGS

For John Deere 2010, 3010, 4010, 530, 630, 730, 520, 620, 720, 50, and 60 Tractors equip-
ped for remote hydraulic cylinder operation
and with rear rockshaft and either single or
dual front wheels.

DIMENSIONS

(Mounted on John Deere 530 Tractor)

Length, Over-All 16 Ft.
Width, Over-All 9 Ft. 2 In.
Height:
Basket Lowered 12 Ft. 4 In.
Basket Raised 16 Ft. 4 In.

SHIPPING WEIGHT 3100 lbs. Approx.

(Specifications and design subject to change
without notice.)



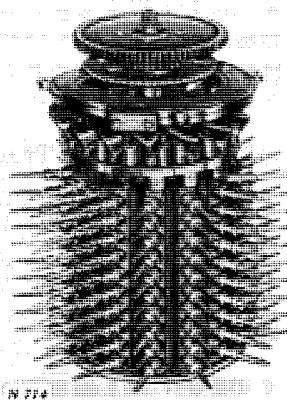
description

The No. 11 is a practical one-row cotton picker. The operating costs are low. It is easy to handle and transports fast. Attaching and detaching can be done quickly—without tractor conversion.

- The picker consists of two basic elements.
1. One-Row Picking Unit.
 2. Fan Delivery System and Basket.

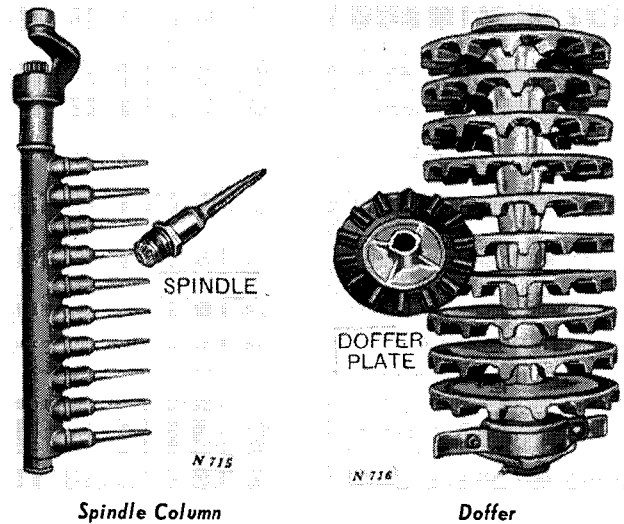
These basic components are mounted in such a way that the tractor operates in its regular forward gears during the picking operation.

Picking unit



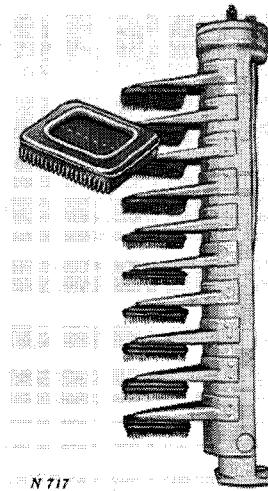
The heart of the picker is the highly efficient spindle-type picking unit. There are two drums of spindles. Both the drums consist of 12 cam-controlled spindle columns with 10 spindles on each column.

A doffer assembly for each spindle drum unwinds the cotton from the spindle and delivers it to a chute in the side door. Each doffer assembly consists of a shaft with a series of aluminum alloy doffer plates that have rubber doffers molded to the plates. Each unit has 10 doffers per shaft.



Spindle Column

Doffer



Moistener

There is also a spindle moistener column for each spindle drum that wipes each spindle with water to keep it clean for a better job of picking cotton.

The stalk lifters guide the cotton plant into the picking zone of the unit where the grid bars and pressure plates take over to hold the plant in position for picking.

How the picking unit works

Knowing what is going on inside the picking unit will be a great help to you. It will give you a better understanding of the capabilities and limitations of a mechanical cotton picker. You will also know why certain adjustments are necessary and when to make the adjustments.

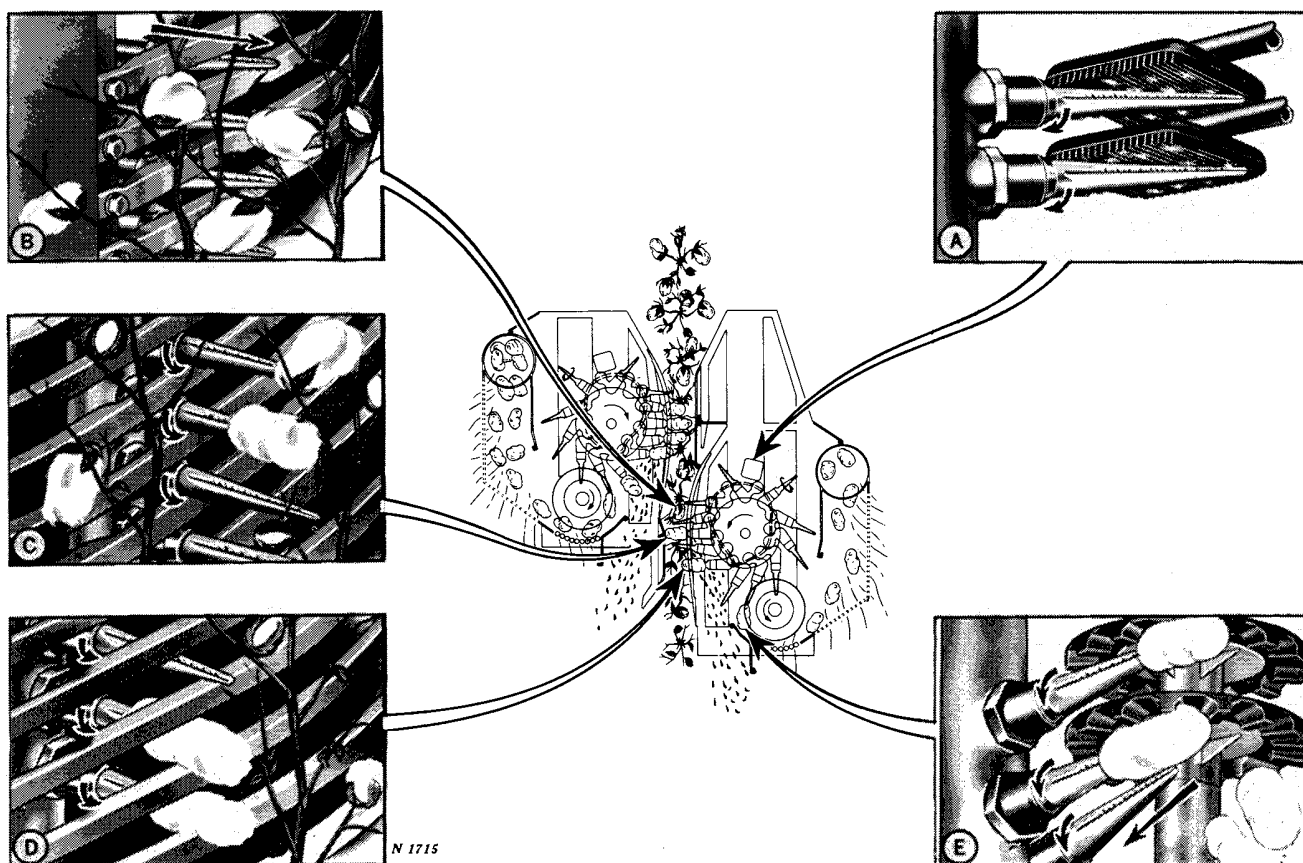
The illustration below shows what happens during the picking cycle. At "A" the spindles go under the moisteners and are cleaned of lint, plant sap, and stain, by a film of water.

Next, the cleaned spindles start through the grid bars at "B." The speed of the spindle drums is synchronized with the picking speed of the tractor (2 to 2-1/2 miles per hour, depending on the tractor used) so the spindles have no

forward or backward motion in relation to the cotton plant. The rotating spindles poke straight into the cotton plant and then pull straight back. Because of this, the spindles can brush past unopened bolls and the stalks, leaving them undamaged.

At "C" the spindles are all the way out and wrap the cotton fibre onto the spindle barbs. Then the spindles move back through the grid bars, pulling the cotton out of the open bolls and through the grid bars as shown at "D."

At "E" the cotton is being removed from the spindles by the doffer. The spindles move backwards under the doffer plates so the doffer pads can unwind the cotton from the spindles.



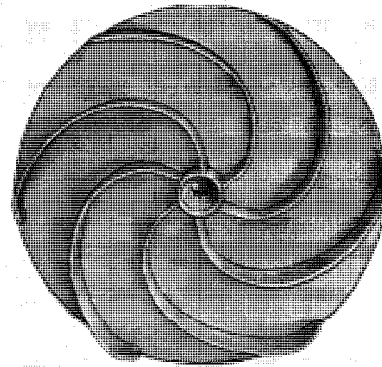
What happens inside the picking unit

Fan delivery system and basket

A powerful rotor fan provides individual suction for each picking drum. The cotton is sucked out of the picking unit suction doors, through telescoping tubes to the fan and then is blown against the cleaning grates in the basket.

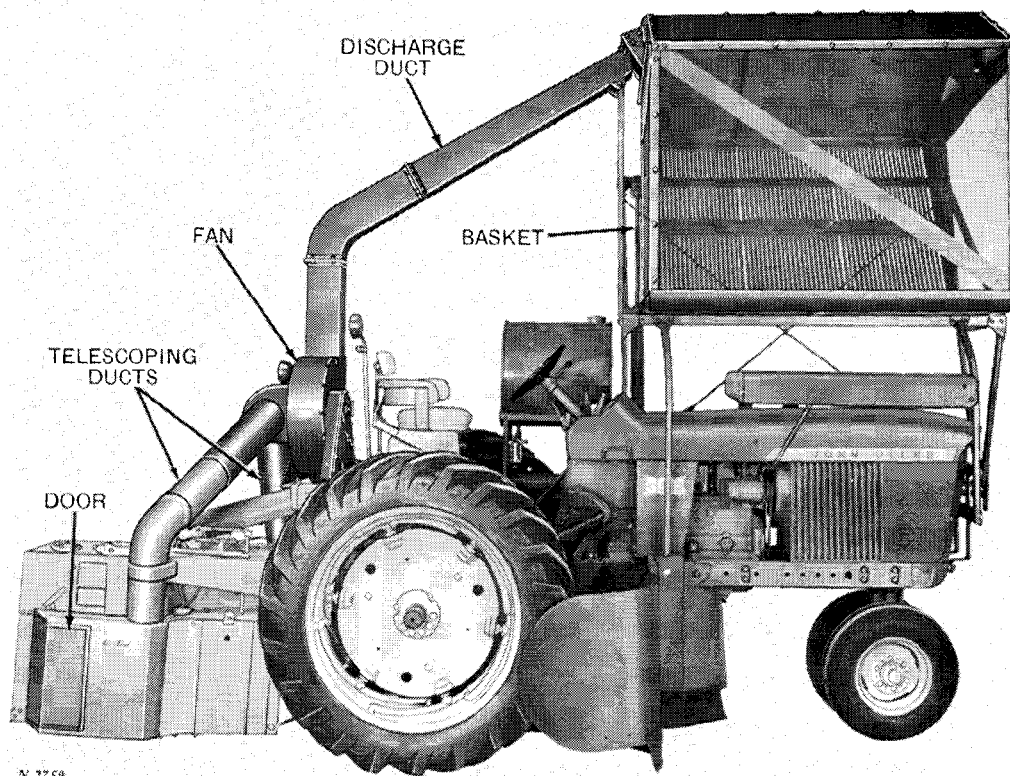
The fan has spiral-shaped blades so the cotton is handled with the least amount of damage to the seed.

The big-capacity basket will hold 600 pounds of seed cotton so you will have to dump it fewer times during a day. A powerful double-acting hydraulic cylinder raises and lowers the basket for dumping. The lid opens and closes automatically as the basket is raised and lowered.



N 720

Fan rotor



N 2759

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