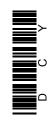
22 AND 122 ONE-ROW COTTON PICKERS EFFECTIVE SERIAL NOS. 22L-4000 AND 22H-1600 NO.122L-600





OPERATORS MANUAL

22 AND 122 ONE-ROW COTTON PICKERS EFFECTIVE SERIAL NOS. 22L-4000 AND 22H-1600 NO. 122L-600

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To the purchaser

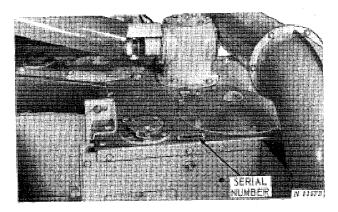
Your new cotton picker was built to rigid manufacturing standards. Material and workmanship are the best. However, the machine will serve you in only direct proportion to the care you give it. How long it will last and continue its good work is a matter entirely in your hands.

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 the cotton picker is operated.

Serial number



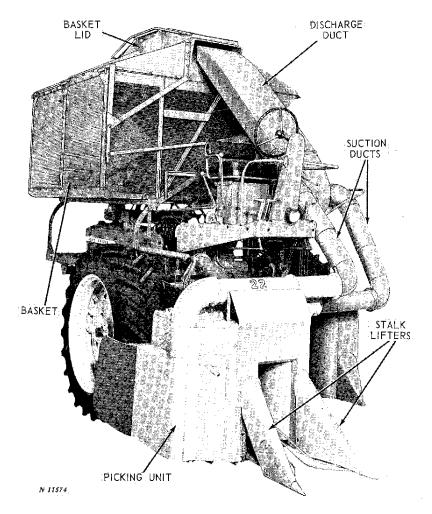
You will find the serial number of your cotton picker stamped on a plate located on the right-hand side of the picking unit. Write this serial number in the place provided below for handy reference later.

PICKER SERIAL No.	22	 •	• •	•	٠
No.	122			•	
Dot	o Durchased	19			

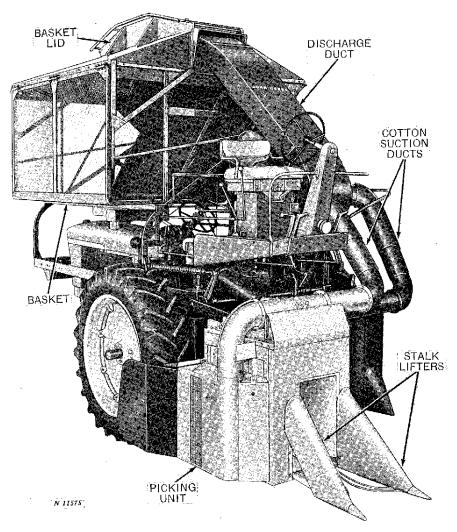


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John Deere 22 Cotton Picker and 3020 Tractor



John Deere 122 Cotton Picker and 3010 Tractor



specifications

22 Picking Unit (Low and high drum)	Dimensions		
No. of Picker Drums 2	Length, Over-All 18 Ft., 8 In.		
No. of Picker Bars:	Width, Over-All 9 Ft., 7 In.		
Front Drum	,		
Rear Drum	Height:		
No. of Spindles:	22 Low-Drum and 122:		
Low-Drum:	Basket Lowered 13 Ft., 10 In.		
Per Picker Bar 14	Basket Raised 17 Ft., 7 In.		
Total			
High-Drum:			
Per Picker Bar 20	22 High-Drum:		
Total	Basket Lowered 14 Ft., 10 In.		
	Basket Raised 18 Ft., 7 In.		
122 Picking Unit (Low drum only)			
No. of Picker Drums 2	Speeds (Approx.)		
No. of Picker Bars:	Front Drum22 86 rpm		
Front Drum	Front Drum-122		
Rear Drum 12	Rear Drum (22 and 122) 115 rpm		
No. of Spindles:	Spindles (22 and 122) 2980 rpm		
Per Picker Bar	Springer (== and 1==)		
Total	Tractors		
	John Deere 2010 Tractor with single or dual		
Performance	hydraulic system, single remote cylinder con-		
Will Pick 36-, 38-, 40-, or 42-Inch Rows	trol with breakaway coupling, single or dual		
, , , , , , , , , , , , , , , , , , , ,	front wheels, Power Take-off and Power		
Ground Speeds	Steering. Tire sizes as recommended on page		
Picking Speed	20. The 2010 Tractor must also be equipped		
Transport Speed 9 to 12 mph	with heat treated rear axles.		
Reverse Speed 1-1/2 to 2 mph	William Council Leaf anich.		
	John Deere 3020, 3010, 4020 and 4010 Tractors		
Capacities	with rear rockshaft, single or dual remote		
Cotton Basket 271 Cu. Ft.—approximately	cylinder control valve with breakaway cou-		
1,200 Lbs. Seed Cotton*	pling. Single or dual front wheels and Power		
Water Supply Tank 40 U.S. Gallons	Take-off. Tire sizes as recommended on page		
water supply Talk 40 0.5. Gallons	20.		
Shipping Weight			
22 Low-Drum, Picker Alone,	John Deere 530, 630, 730, 520, 620, 720, 50,		
Approx 4,330 Lbs.	60, 70, A, and G Tractors with rear rockshaft,		
22 High-Drum, Picker Alone,	single or dual remote cylinder control, single		
Approx 4,970 Lbs.	or dual front wheels, 540 or 1000 rpm trans-		
122 Picker Alone, (Approx) 4,135 Lbs.	mission driven or engine driven Power Take-		
I toker mone, (hpprox) 4,100 mbs.	off. Tire sizes as recommended on pages 20-		
*These figures are based on approximately	21. External speed changer cannot be used on		

(Specifications and design subject to change without notice.)

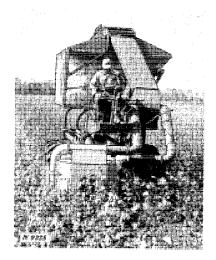
five pounds of seed cotton per cubic foot. The weight of seed cotton varies depending upon

area and crop conditions.

PTO.



description



Your new picker 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 costly tractor conversion.

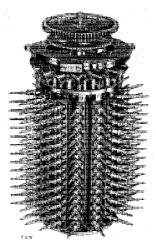
The picker consists of three basic elements.

- 1. One-Row Picking Unit
- 2. Platform and Controls
- 3. Fan Delivery System and Basket

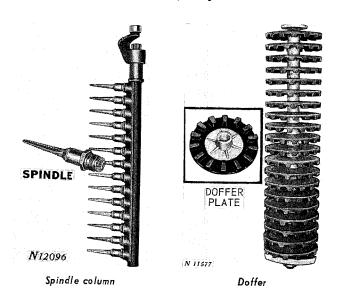
These three basic componets are mounted in such a way that the tractor operates in reverse gear during the picking operation. For transporting, the picker is driven from the tractor seat, using the regular tractor forward speeds. However, on 2010, 3010, or 4010 Tractor, the picker may be transported from the operator's platform at transport speeds.

Picking unit

The heart of the picker is the highly efficient spindle-type picking unit. There are two drums of spindles. On the 22 Picker, the front drum consists of 16 cam-controlled spindle columns with 14 spindles on each column of the low-drum and 20 spindles on each column of the high-drum.



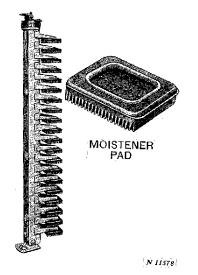
Low-drum front picking drum



On the 122 Picker, each drum consists of 12 cam-controlled spindle columns with 14 spindles on each column.

There is a doffer assembly for each spindle drum to unwind the cotton from the spindles and deliver it to a chute in the side door. Each assembly consists of a shaft with a series of aluminum alloy doffer plates that have rubber doffers molded to the plates. The low-drum unit has 14 doffers per shaft; the high-drum unit has 20.

6 description



Moistener

There is also a spindle moistener column for each spindle drum. The moistener pads wipe each spindle with water to keep it clean, for a better job of picking cotton.

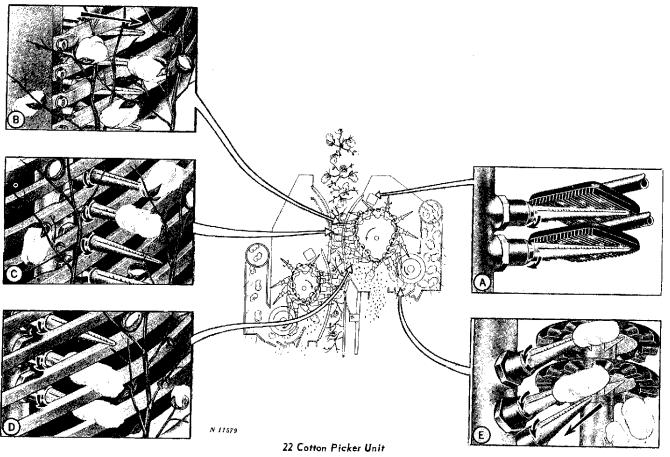
The stalk lifters guide the cotton plant into the picking zone of the unit where the grid bars and pressure plates take over to hold the plant in position for picking.

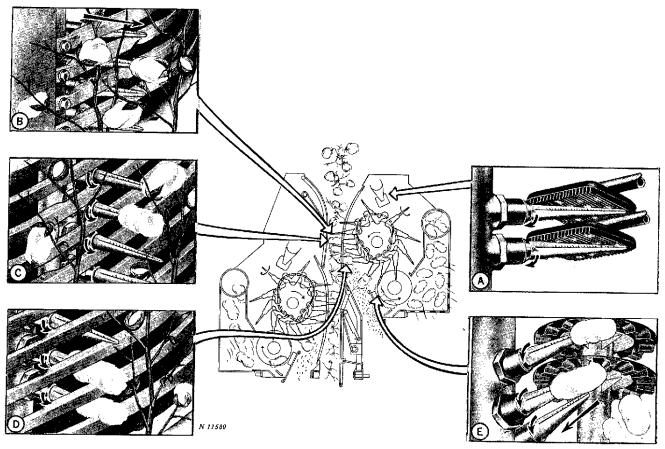
How the picking unit works

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 (2-1/2 miles per hour) so the spindles have no forward or backward motion in relation to the cotton plant. The rotating spindles simply 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.





122 Cotton Picker Unit

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.

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