

77 TWO-ROW COTTON STRIPPER



JOHN DEERE

OPERATORS MANUAL

77 TWO-ROW COTTON STRIPPER

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LITHO IN THE U.S.A.
ENGLISH



TO THE PURCHASER

Your new cotton stripper was built to rigid manufacturing standards. Material and workmanship are the best. How long it will last and continue its good work is a matter entirely in your hands.

The way you operate your cotton stripper 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 mechanical 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 stripper 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.

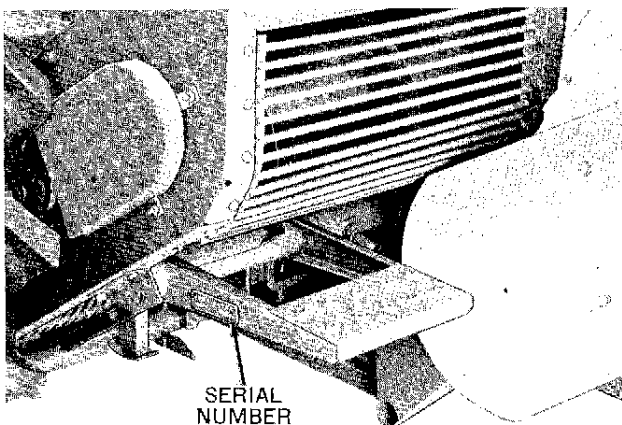
"Clockwise" refers to a shaft, screw, or similar part turning to the operator's "Right," or like the hands of a clock. "Counter-clockwise" refers to the operator's "Left."

SERIAL NUMBER

You will find the serial number of your cotton stripper stamped on a plate located at the rear of the cross conveyor on the left-hand step. Write this serial number in the place provided below for handy reference later.

Stripper Serial No. 77—.....

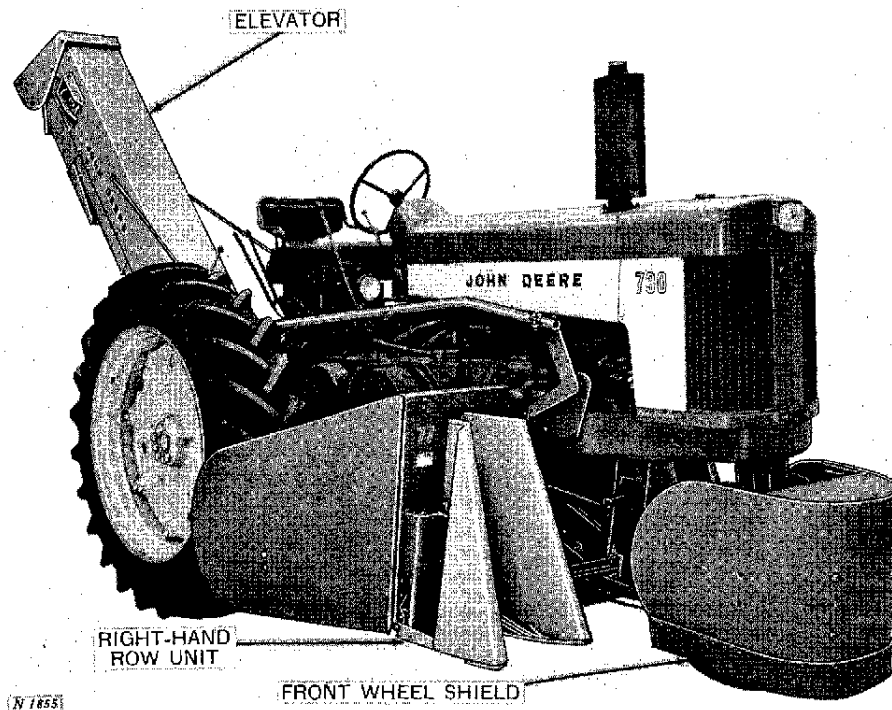
Date Purchased.....



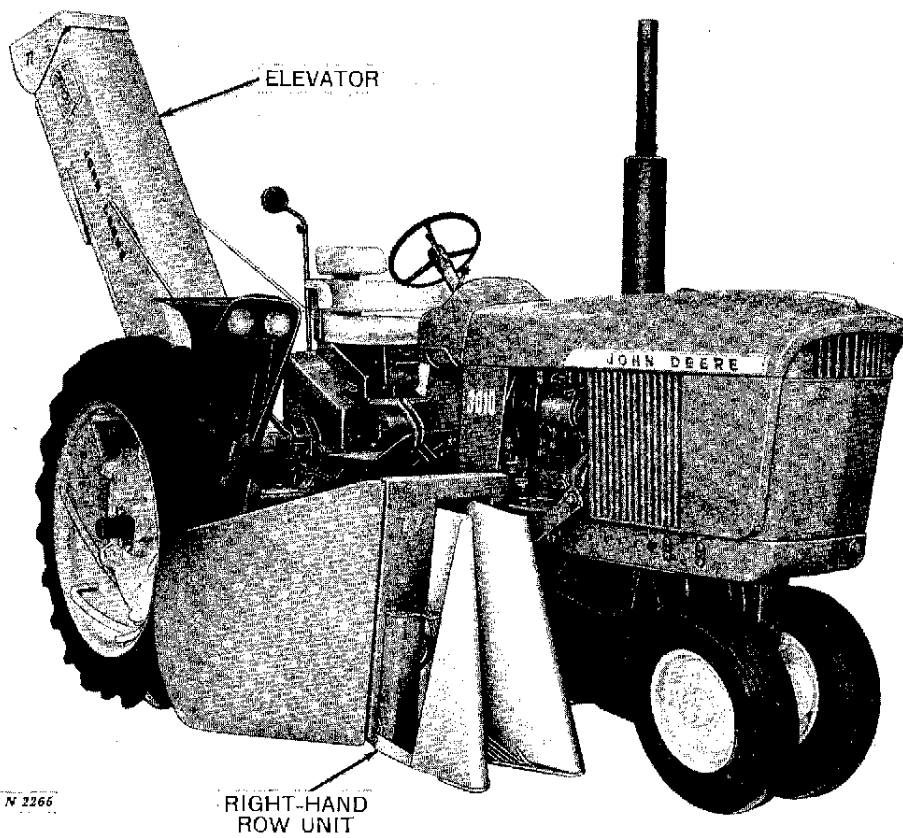
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John Deere 77 Cotton Stripper on John Deere 730 Tractor



John Deere 77 Cotton Stripper on John Deere 3010 Tractor

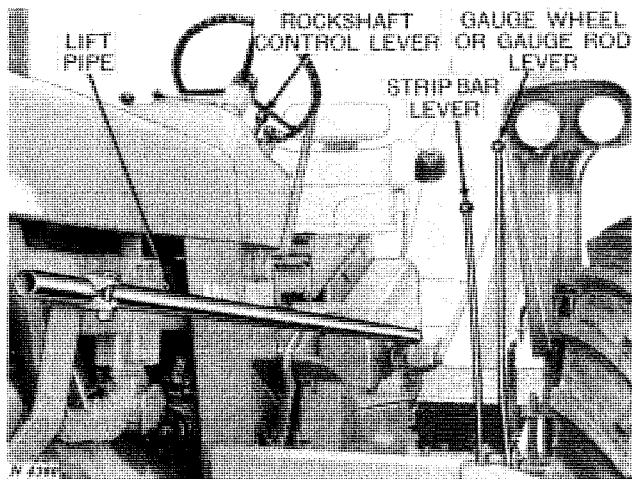
SPECIFICATIONS

Type of Machine.....	2 - Row, Tractor Mounted	Cross Conveyor.....	10-Inch Auger. Rod-Type Housing for Cleaning
Row Widths.....	38 and 40 Inches	Type of Elevator.....	Over Shot—Center Delivery to Rear
Stripping Speeds.....	1.5 to 3.5 mph	Elevator Conveyor.....	10-Inch Belt with Alternating Cord Rubber and Steel-Finger Flights.
Transport Speeds.....	9 to 12 mph	Type of Green Boll Separator.....	Air Separator and Baffle
Type of Row Unit Lift...	Hydraulic	Fan.....	14-Inch Diameter Squirrel Cage Type—Located Beneath Elevator
Type of Gatherers.....	Floating Type with Curved Shaped Grates	Shipping Weight (Including Mounting Parts)...	Approx. 2500 pounds
Gatherers Hinged or Rigid	Hinged	Tractor Mountings for...	John Deere 2010, 3010, 4010, 430, 530, 630, 730, 420, 520, 620, 720, 40, 50, 60, 70, A, B, and G Tractors. Also Several Other Tractors
Strip Roll Diameter.....	3 Inches	Special Equipment:	
Strip Roll Length.....	43-5/16 Inches	Wheel Shields.....	Front and Rear
No. Strip Rolls per Unit..	One	Stalk Rolls.....	Two per Unit Parallel to Strip Roll
Type of Strip Bars.....	Adjustable Spring Loaded	Gauge Wheels.....	Individual Control—One per Row Unit
Strip Bar Adjustment....	Selected by Operator from Tractor Seat	Gauge Rods.....	Individual Control—One per Row Unit
Trash Mover.....	Rubber Paddle Type—One per Row Unit		
Unit Conveyor.....	One 8-inch Auger. Housing Slotted for Cleaning		
Side Conveyor Pin Wheels	24 Wheels, 11-Inch Diameter		

(Specifications and design subject to change without notice.)

OPERATION

CONTROLS



ROW UNITS

The row units are raised and lowered by the tractor hydraulic system through a lift pipe between the tractor rockshaft and the stripper lift mechanism. Use the tractor rockshaft control lever to raise and lower the row units.

If the stripper is not equipped with gauge wheels or gauge rods, the operating height of the row units is controlled by the rockshaft control lever. Set the adjustable stop on the quadrant so the row units will always return to the desired operating height, after they have been raised. The quadrant stop is not required when stripper is equipped with gauge wheels or gauge rods.

GAUGE WHEEL OR GAUGE ROD LEVERS

If stripper is equipped with gauge wheels or gauge rods, the lever located at the outer side of each row unit controls the operating height of the units. Move the lever forward to lower the unit and to the rear to raise the unit.

The gauge wheels or gauge rods should be adjusted to the predetermined operating height as instructed on page 10. The levers can then be used to raise or lower the units.

Gauge wheels allow the units to operate independently over irregular terrain. Gauge rods tie the row units to the rear mounting bracket to maintain the operating height of the units.

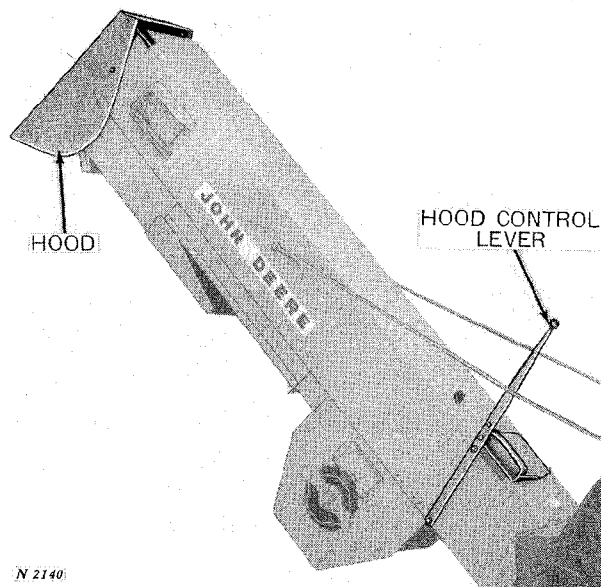
STRIP BAR LEVER

The strip bar lever controls the width of the opening between the strip bar to the strip roll. One lever on the left-hand row unit operates the strip bars on both row units, unless the cotton stripper is equipped with gauge wheels or gauge rods. In this case, one strip bar lever is located on each row unit.

To increase the opening between strip bar and strip roll, move the strip bar lever to the rear. This can be done from the tractor seat while "on-the go."

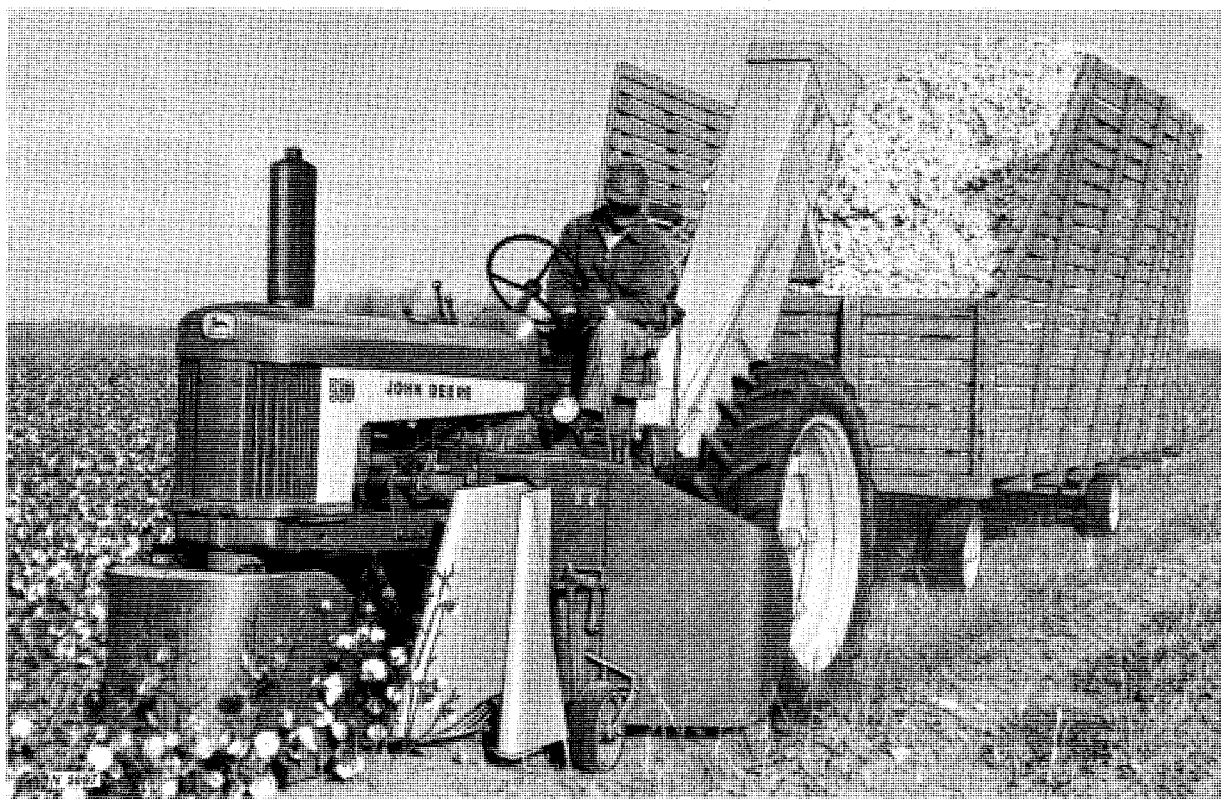
The strip bar, which is spring-loaded, is designed so that it will "give" automatically and move in or out as the size of the cotton plant varies. A unique feature of the strip bar is the spring pressure remains constant through all positions of the strip bar spacing. When the limit stop bolt is properly adjusted, the strip bar lever can be used to increase the spring tension while the bar spacing remains unchanged.

ELEVATOR HOOD LEVER



The elevator hood control lever, located on top the elevator, is within easy reach from the tractor seat. The hood can be set for the delivery of the cotton through the entire length of the cotton trailer. By moving the lever forward, the hood is raised to direct the cotton to the rear of the trailer.

THE FUNDAMENTALS OF COTTON HARVESTING



Handling different types of cotton requires a thorough understanding of the fundamentals of stripper operation, and initiative and resourcefulness to meet the varying field conditions.

These fundamentals are, briefly:

1. Stripping cotton is an once over operation, which means that both open bolls and green bolls are removed from the plant at the same time.

2. The cotton stripper will successfully harvest both open-boll or the more closed-boll, storm-proof type.

3. Closed-boll cotton, such as storm-proof, is more adaptable for the cotton stripper because the cotton bolls mature more uniformly and can be harvested with very small field loss.

4. Defoliation is necessary, either by use of chemicals, or in some areas by a killing frost. A desiccant may be used if desired.

5. The ideal harvesting condition is when the cotton bolls are well open, clean and fluffy, and approximately 10 days after defoliation, depending upon weather conditions.

6. Strip early, as soon as the bolls are well open. The longer cotton is exposed to the weather the greater chance there is of deterioration and discoloration, resulting in lower grades.

7. The proper harvest date depends almost entirely on the crop, weather, moisture content, and defoliation.

8. Proper preparation of cotton fields for mechanical harvesting will mean less trouble and more profitable operation. Fields should be kept clean and free from roots, stones, and other foreign material.

9. The 77 Cotton Stripper is simple to operate with very few adjustments. With a little experience any operator can do a good job of stripping cotton.

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