

# 277 TWO-ROW COTTON STRIPPER



## OPERATORS MANUAL 277 TWO-ROW COTTON STRIPPER

OMN97709 (01JUN64) English

**OMN97709 (01JUN64)**

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.

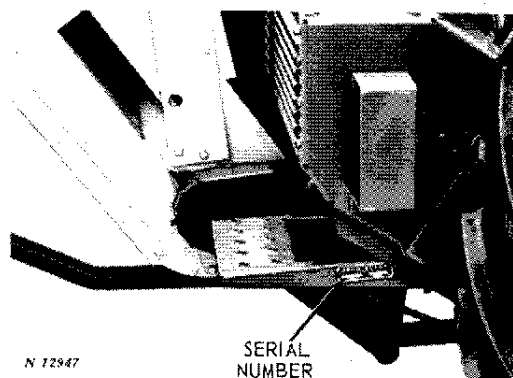
The way you operate your cotton stripper and the care you give it have much to do with the service and satisfaction you will get from it. This manual has been carefully prepared and illustrated to show you what to do and when to do it. It explains the adjustments that are built into the machine and gives 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

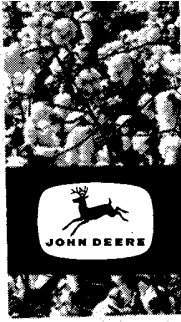


You will find the serial number of your cotton stripper stamped on a plate located at the rear of the cross conveyor on the right-hand step. Write this serial number in the place provided below for handy reference later.

*Stripper Serial No. 277—* .....

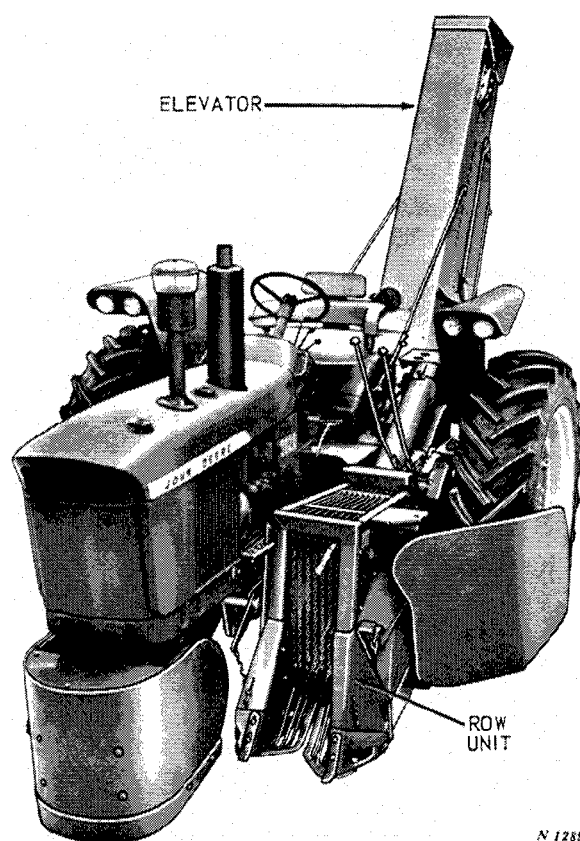
*Date Purchased* .....

Price

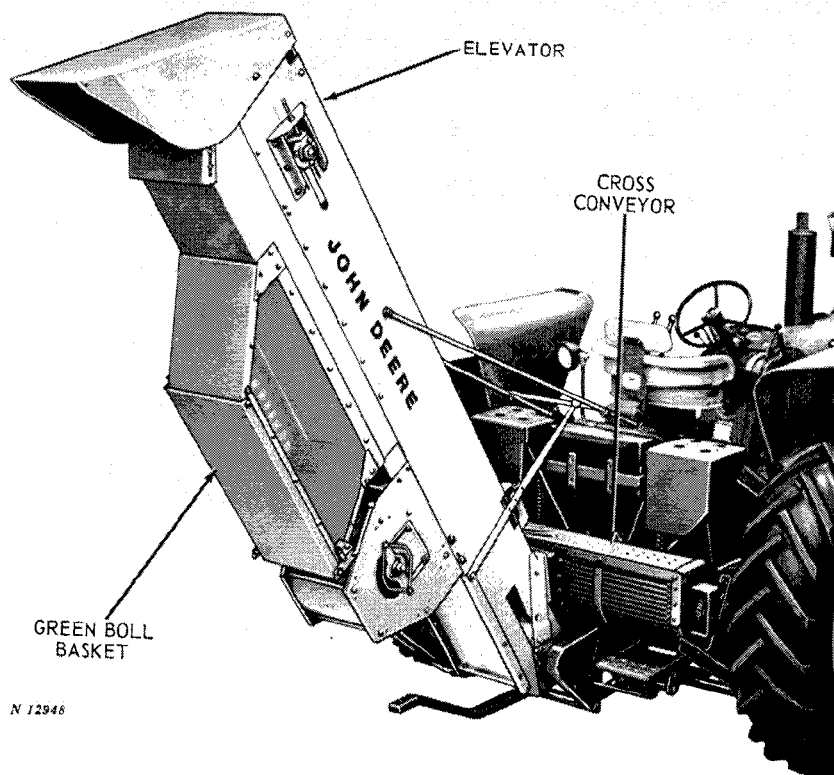


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*Front View of John Deere 277 Cotton Stripper on 3020 Tractor*



*Rear View of John Deere 277 Cotton Stripper on 3020 Tractor*



# SPECIFICATIONS

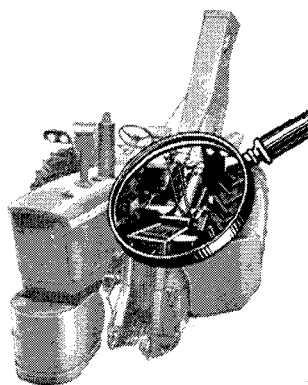
Type of Machine . . . . .	2-Row, Tractor-Mounted	Cross Conveyor . . . . .	10-Inch Auger. Rod-Type Housing for Cleaning
Row Widths . . . . .	38 and 40 Inches	Type of Elevator . . . . .	Over Shot — Center Delivery to Rear
Stripping Speeds . . . . .	1.5 to 5.0 mph	Elevator Conveyor . . . . .	10-Inch Belt 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. 2850 pounds
Gatherers Hinged or Rigid . . . . .	Hinged	*Tractor Mountings for . .	John Deere 2010, 3010, 3020, 4010, and 4020 Tractors Farmall 460, 560, 706, and 806 Tractors
No. Stripper Rolls per Unit . . . . .	Two	Special Equipment . . . . .	Front Wheel Shields Green Boll Basket
Stripper Rolls Diameter .	6 Inches	*Stripper will not mount on 2010 Tractor with power-adjusted rear wheels and short axles. Also, use of stripper on tractors with rear tires larger than 15.5 is not recommended.	
Stripper Rolls Length . .	40 Inches		
Type of Stripper Rolls . .	Brush		
Stripper Roll Adjustment	By Operator from Tractor Seat		
Unit Conveyor . . . . .	Two 6-Inch Augers Housing Slotted for Cleaning		
Side Conveyor Pin Wheels	24 Wheels, 11-Inch Diameter		

(Specifications and design subject to change without notice.)



# OPERATION

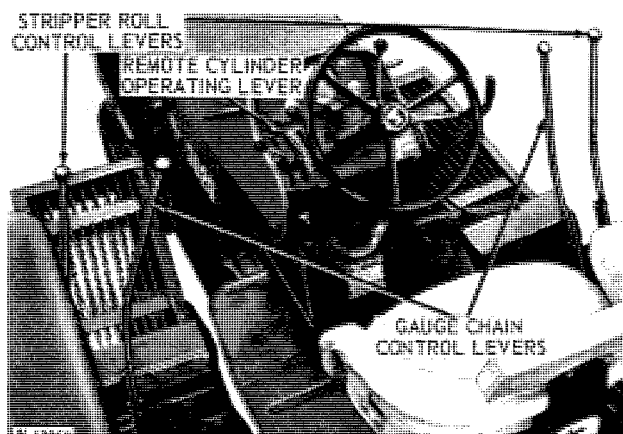
## KNOW YOUR COTTON STRIPPER



N12949

Before starting to strip cotton, read this manual. The information in it is the result of years of experience in the design and operation of mechanical cotton strippers. We want you to be happy with your new John Deere 277 Cotton Stripper. We know it will do good work for a long time if operated and adjusted properly. This manual tells you how to get from the stripper the performance and long life that have been designed and built into it.

## CONTROLS



## ROW UNIT CONTROL

The row units are raised and lowered by the tractor hydraulic system with the use of the remote cylinder. Use the inner remote cylinder operating lever on the tractor to raise and lower the row units.

## GAUGE CHAIN CONTROL LEVERS

The operating height of the row units is controlled by the inside lever on each row unit. Move the lever forward to lower the unit and to the rear to raise the unit.

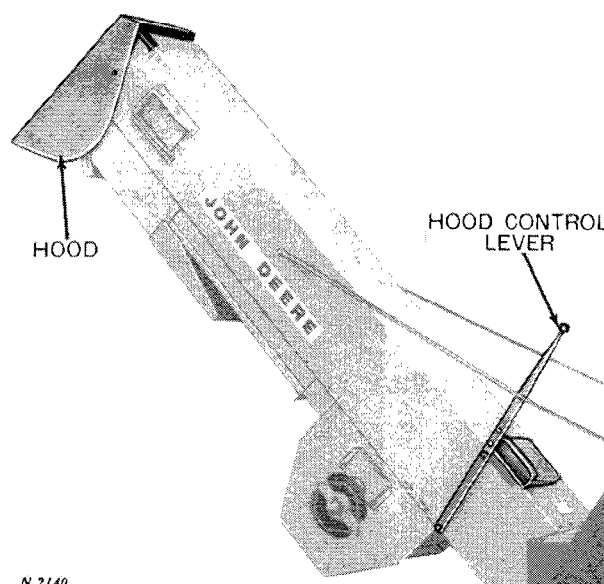
The gauge chains should be adjusted to the predetermined operating height as instructed on page 10. The levers can then be used to adjust the operating height of the units.

## STRIPPER ROLL CONTROL LEVERS

The spacing between the stripper rolls is controlled by the outside lever on each side.

To increase the opening between the stripper rolls move the stripper roll lever to the rear. This can be done from the tractor seat while "on the go."

## ELEVATOR HOOD CONTROL LEVER



N 2140

The elevator hood control lever, located on top of 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 277 Cotton Stripper is simple to operate with very few adjustments. With a little experience any operator can do a good job of stripping cotton.

### TRANSPORTING THE STRIPPER



Check clearance carefully before driving the machine under electric wires, bridges, or into buildings.

Keep tractor in gear when going down grade.

**CAUTION:** When transporting the stripper on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available at your John Deere dealer.

## USING THE STRIPPER IN THE FIELD

The degree of satisfaction from this cotton stripper depends upon the carefulness and alertness of the operator. Once the stripper has been adjusted to meet the crop condition the rest is up to the operator. Take pride in the work you are doing.

Strip cotton from a pair of rows as they were planted. Do not attempt to straddle "guess" or "odd" rows. Approach the rows of cotton so the cotton enters the center of each row unit. Avoid excessive speed, do not travel faster than your ability to stay on the rows. Operate stripper at 1.5 to 5.0 mph with PTO operating at the proper speed.

Keep watching for stones, bricks, and other foreign objects. Running such objects through the row unit can cause severe damage.

Raise the row units to the highest position when turning at the end of the row or when crossing ditches.

When starting in the field, strip a few feet, stop, get off the tractor, and walk back along the row to inspect the kind of work you are doing. Make the necessary adjustments on the stripper to improve its efficiency and again strip several feet before making another check. Repeat this performance until you are satisfied that the machine has been adjusted for a minimum of field loss and maximum stripping efficiency. Field loss with a stripper is no greater than that occurring when the cotton is hand picked.

Always listen for slipping clutches. The slip clutch acts as a safety device to reduce breakage. Should a clutch slip, stop immediately, determine the cause and correct it.

Keep in mind that the cotton stripper should always be in good condition and properly adjusted to derive the many benefits that can be had from the 277 Cotton Stripper.



## SAFETY SUGGESTIONS

### BEFORE OPERATION

1. Review this Operator's Manual. Understand the function of all working parts.
2. Do not wear loose-fitting clothing; they may catch in moving parts.
3. A fire extinguisher should be on tractor and in good operating condition.
4. Make sure everyone is clear before starting the machine.
5. Do not permit anyone on the tractor except those required for its operation.
6. See that all safety shields are in place and properly secured before starting to operate the stripper.
7. Be sure the correct PTO parts are used and properly secured.
8. After servicing, be sure all tools, parts, and service equipment are removed before starting the machine.

### DURING OPERATION

1. Before starting the tractor engine, be sure all controls are in neutral.
2. Avoid the possibility of fire by keeping the tractor and stripper free of trash.
3. Use extreme care when operating close to ditches, fences, or on hillsides.
4. Keep hands and feet away from moving parts.
5. Stop tractor engine before cleaning or adjusting the stripper.
6. Do not leave the tractor without disengaging the PTO drive and stopping engine.
7. Never attempt to remove obstruction from stripper rolls or augers while they are in motion.

### AFTER OPERATION

1. Do not disconnect the cotton trailer on an incline without first blocking the wheels.

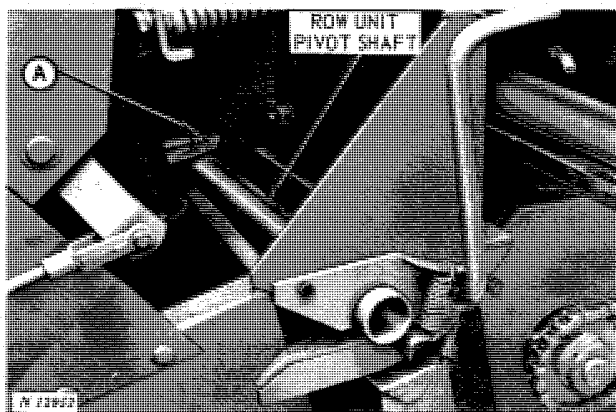




# ADJUSTMENTS AND SERVICE

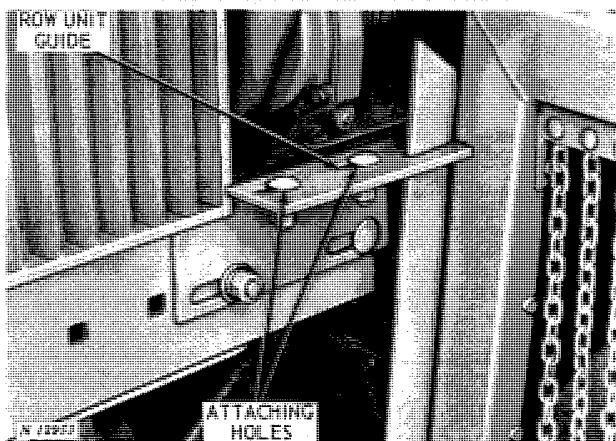
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## ROW SPACING



The 277 Cotton Stripper is designed to operate in 38-inch or 40-inch rows. The row unit pivot on each unit is adjustable to change the row spacing.

To change the row spacing, loosen the bolt at "A" on the inside of the row unit pivot shaft.

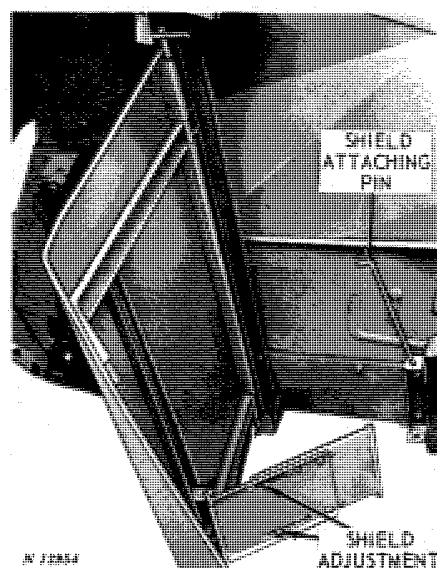


For 40-inch rows, the row unit guide must be positioned so the attaching holes are away from the tractor. For 38-inch rows, the guide must be positioned so the holes are next to the tractor.

Measure between the brush centers to check row spacing. Make sure each row unit is the same distance from the tractor.

After the stripper has been adjusted for the proper row spacing, tighten the bolt at "A."

## REAR WHEEL SHIELDS



The wheel shields lift leaning and down cotton stalks out of the path of the tractor rear wheels. The shield should be set in as close to the tractor rear tire as possible. However, there should still be enough clearance to let stalks and dirt pass between the shield and tractor wheel. Make sure the wheel shield doesn't extend so far from the tractor wheel that it knocks cotton bolls from standing cotton in the next row.

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