

JOHN DEERE 283 COTTON STRIPPER



OPERATORS MANUAL JOHN DEERE 283 COTTON STRIPPER

OMN159358 E4 English

OMN159358 E4

LITHO IN THE U.S.A.
ENGLISH





To the Purchaser


This new cotton stripper was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need whether it is operation, adjustment, service, lubrication or assembly. Read the Table of Contents to learn where each section is located.

"Right-hand" and "left-hand" sides are determined by facing in the direction of tractor forward travel.

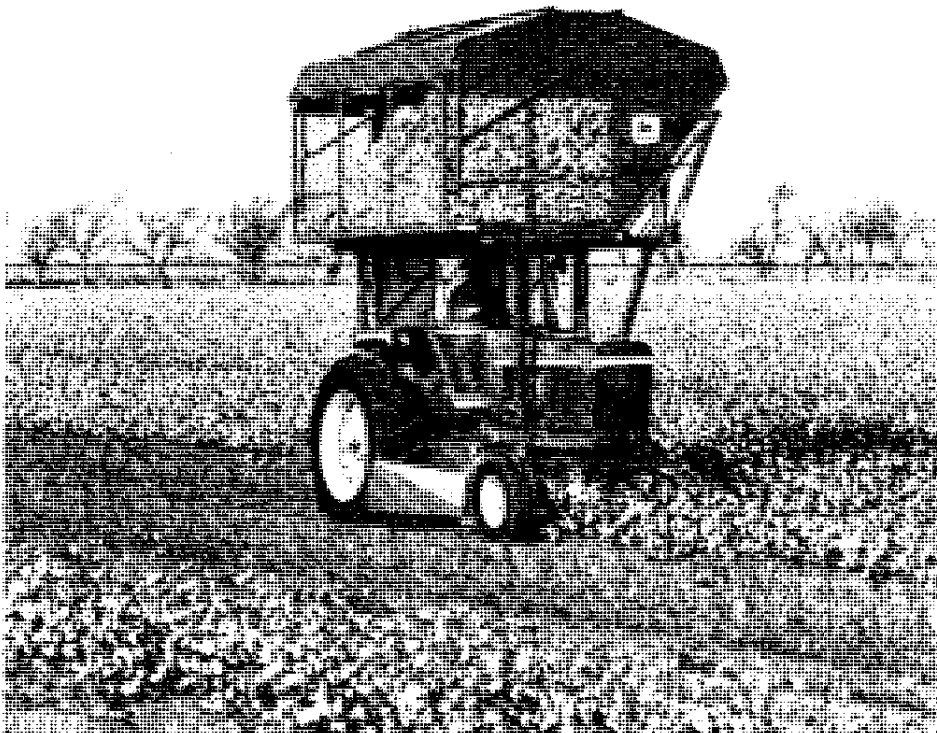
Record your cotton stripper serial number in the space provided on page 69. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments.

If your cotton stripper requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts - accept no substitutes.

The warranty on this cotton stripper appears on your copy of the purchase order which you should have received from your dealer when you purchased the sprayer.

 This safety alert symbol identified important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Your operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure. See page 70 for terms and equivalent values.

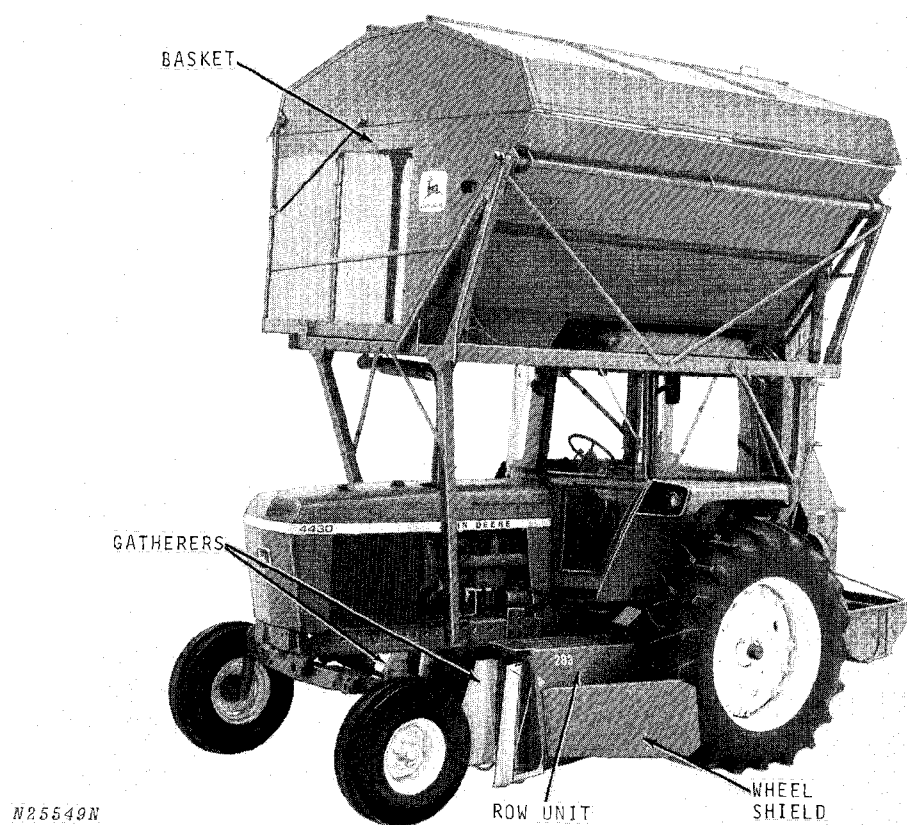




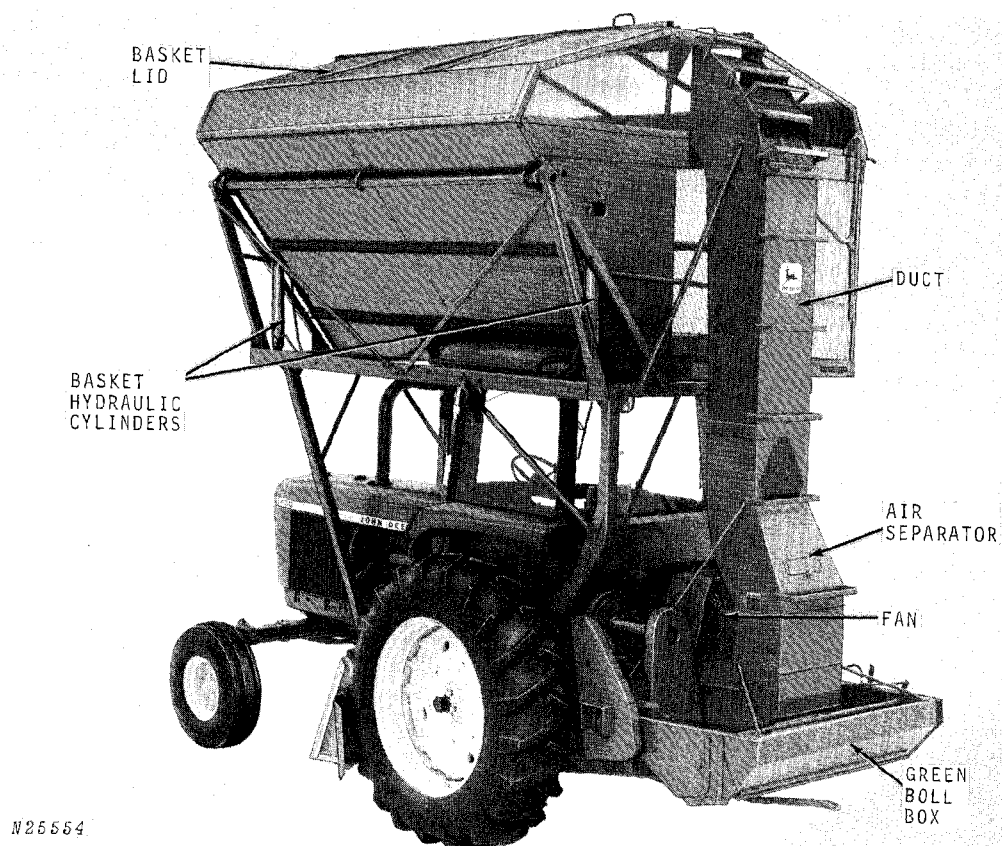
Contents

	Page		Page
IDENTIFICATION VIEWS	2	SERVICE	19-25
DESCRIPTION	3	Stripping Unit Height	19
Controls	3	Adjusting Automatic Height Sensing	19-20
Stripping Units	3	Adjusting Height Sensing Control Lever	
Air System and Basket	3	Tension	20
How it Works	3	Drive Belts	21-23
OPERATION	4-11	Care of V-Belts	23-24
Know Your Cotton Stripper	4	Slip Clutches	24
Controls	4-5	Boll Box Cylinder Adjustment	25
Using the Stripper in the Field	5-7	Basket Cylinder Adjustment	25
Row Unit Operational Adjustments	7-10	Strip Roll Hubs and Keepers	25
Basket and Air System Operational		REMOVING COTTON STRIPPER FROM	
Adjustments	10-11	TRACTOR	26-38
Transporting	11	MOUNTING COTTON STRIPPER ON TRACTOR ..	39
SAFETY SUGGESTIONS	12	ASSEMBLY	40-67
LUBRICATION AND PERIODIC SERVICE	13-15	SPECIFICATIONS	68-70
Lubrication and Service Intervals	13	ALPHABETICAL INDEX	71-72
Symbols for Lubrication Charts	13		
Greases	13		
Storing Lubricants	13		
Every 10 Hours or Daily	14		
Every 50 Hours of Operation	15		
TROUBLE SHOOTING	16-18		

2 Identification Views



John Deere 283 Cotton Stripper on 4430 Tractor



John Deere 283 Cotton Stripper on 4430 Tractor



Description

The 283 Cotton Stripper is a tractor-mounted machine, consisting of the following basic components:

1. Controls
2. Stripping Units
3. Air System and Basket

CONTROLS

All necessary operating controls are conveniently located within easy reach of the tractor seat. The stripping unit lift, basket dump, and green boll box (optional equipment) dump levers are tractor hydraulic control levers and are mounted on the tractor console. The automatic height sensing control levers are mounted on each side of the tractor seat.

STRIPPING UNITS

The row units are adjustable from 38 to 40-inch (96.5 to 101.6 cm) rows.

Automatic height sensing is standard equipment, increasing stripping efficiency with reduced operator effort. The control levers mounted on each side of the tractor seat permit quick and easy adjustment of the operating level. A range of 3 to 4 inches (7.6—10.2 cm) from the lowest to the highest setting allows the best compromise between stripping low-growing cotton and keeping the units free from dirt.

Large strip rolls with alternating rubber flaps and nylon brushes remove a maximum of cotton with a minimum of leaves and bark from the cotton plant. The strip roll separation is controlled by a simple adjusting bolt at the top of the stripping unit arch to accommodate varying plant size or compensate for wear. Each brush consists of two sections of unequal length, allowing alternate placement for wear and aggressiveness of the brushes.

Removable top cross auger covers provide access to the cross auger for cleanout. The cross auger release levers raise the ends of the auger to help free any obstruction which may become lodged.

AIR SYSTEM AND BASKET

The large-volume, high capacity air system with its patented green boll separation, allows practically unlimited ground speed in high yielding cotton. A green boll box (optional equipment), located directly beneath the air system discharge duct, allows dumping of bolls at row ends from the tractor seat.

The basket holds up to 2500 pounds (1134 kg) of seed cotton. It dumps at heights up to 12 feet (3.658 m). Final cleaning of cotton is accomplished by grates at the top of the discharge duct, just before the cotton enters the basket.

HOW IT WORKS

The gatherers at the front of the stripping units gather and direct the cotton plant into the stripping units where the brush rolls strip the cotton from the plant. Two long augers in each unit convey the stripped cotton and green bolls back to the cross conveyor. The cotton and green bolls from each unit are then augered to the opening in the center of the cross conveyor. The air delivery system separates the green bolls from the cotton and conveys the cotton to the basket through the discharge duct. The green bolls are dropped into the green boll box or to the ground.



Operation

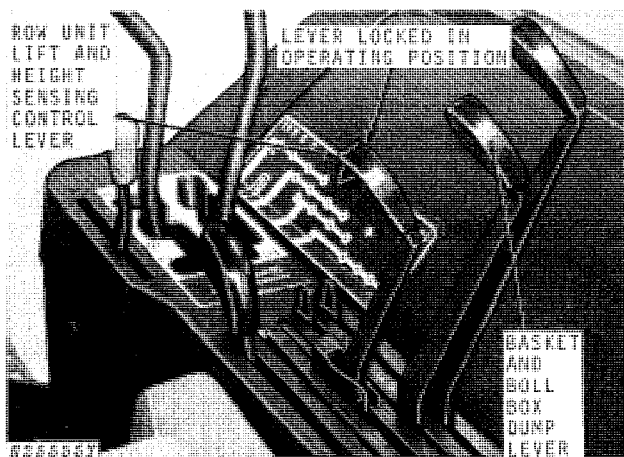
KNOW YOUR COTTON STRIPPER

Before starting to strip cotton, read this manual completely. It will give you a sound basis in the operating procedures and techniques required to do a superior job, while obtaining the performance and service life from your cotton stripper which was designed into it at the factory.

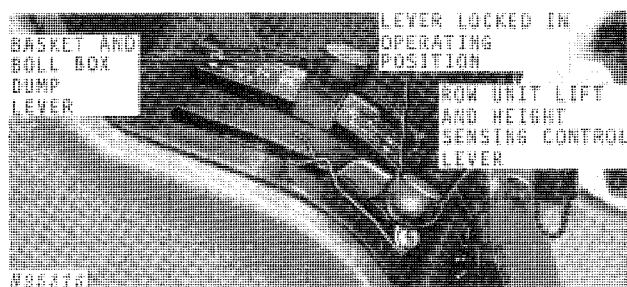
CONTROLS

Before attempting to operate your new cotton stripper, become familiar with the location and function of the cotton stripper controls.

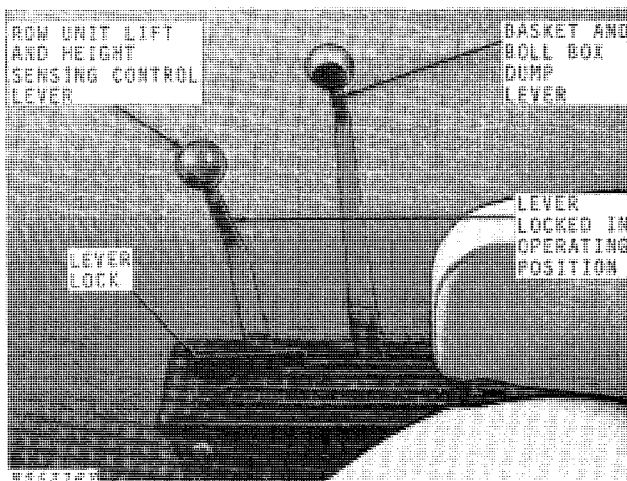
Row Unit, Basket, and Green Boll Box Controls



4030, 4230, and 4430 Tractors



3010, 3020 (Serial No. 122999 and below), 4010, 4020 (Serial No. 200999 and below) Tractors



3020 (Serial No. 123000 and above), 4020 (Serial No. 201000 and above) and all 4000 and 4320 Tractors

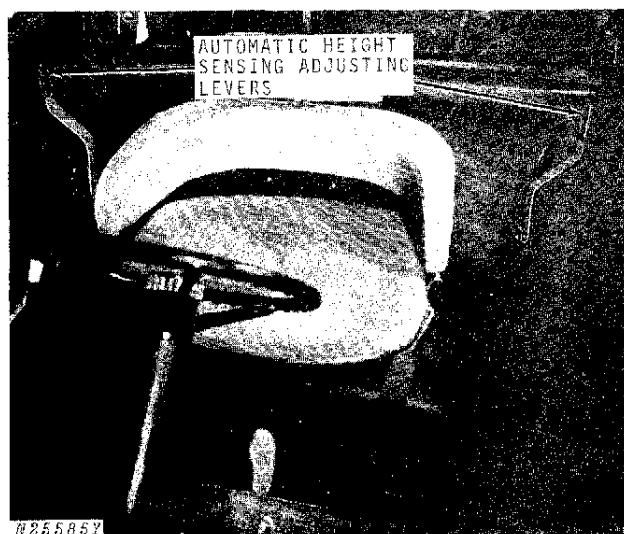
The row unit lift and height sensing control lever is locked in the operating position to obtain automatic height sensing of the row units. To raise the row units at the row end or when meeting a large obstruction, move the lever out of the operating position.

The basket and boll box (optional equipment) dump lever controls the dumping of both the basket and green boll box. Move the lever slowly to dump the basket. If the stripper is equipped with a green boll box, it will dump as the basket begins to raise.

Move the lever slowly when lowering the basket. The green boll box will close after the basket is down. Be sure it is completely closed before returning lever to neutral position.

NOTE: To obtain desired lever operating characteristics, hydraulic hoses must be properly connected. (See pages 54, 64 and 67.)

Automatic Height Sensing Adjusting Levers

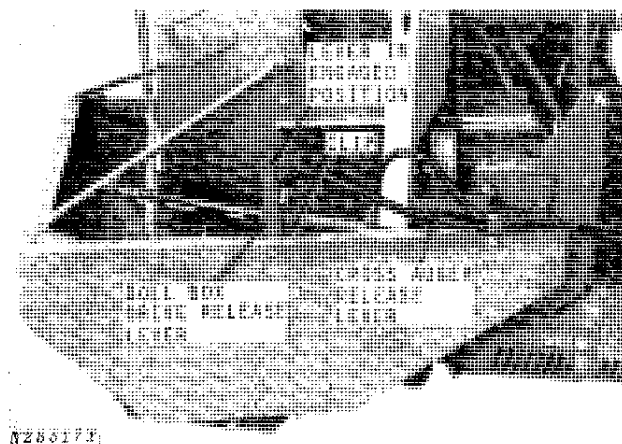


The automatic height sensing adjusting levers permit the operator to adjust the operating height of the units "on the go". A range of 3 to 4 inches (9.6—10.2 cm) from the lowest to the highest setting allows the best compromise between stripping low-growing cotton and keeping the units free of dirt.

To cause a unit to operate closer to the ground push the lever for that unit forward. To cause the unit to operate farther from the ground, pull the lever back.

NOTE: A slight movement of the levers should be sufficient to accomplish the desired unit operating height. The lever adjusting range is affected by height sensing adjustments. (see pages 19-20.)

Green Boll Box Drive and Cross Auger Release Levers



The green boll box drive release lever engages and disengages the belt which drives the leveling auger in the green boll box. Push the lever forward and lock it in front of the clip to disengage the drive belt.

The cross auger release levers (one on each side) release the cross auger for cleaning of the auger. Pull the levers up to release the auger.

USING THE STRIPPER IN THE FIELD

Crop Handling

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 a once-over operation, which means that both open bolls and green bolls are removed from the plant at the same time.

2. 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.

3. The ideal crop condition is when all harvestable bolls are mature and the leaves have dried, either due to frost or use of a desiccant.

In extremely rank growth, defoliation prior to desiccation is helpful.

4. 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.

5. The proper harvest date depends almost entirely on the weather, moisture content, and plant condition.

6. Proper preparation of cotton fields for mechanical harvesting will mean less trouble and more profitable operation. Fields must be clean and free from roots, stones, and other foreign material. Keep beds as flat and even as possible on each side of the row when cultivating.

USING STRIPPER IN THE FIELD— Continued

Stripper Operation

The degree of satisfaction from your 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 7.0 mph (2.4—11.3 km/h) with PTO operating at rated rpm.

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, shut off the engine, and lock the brakes. Get off the stripper 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 properly operating stripper is no greater than that occurring when the cotton is hand picked.

Before-Operation Checks and Adjustment

Careful inspection of the cotton stripper before starting work each day will prevent needless delays and breakdowns in the field. Make the following checks and adjustments:

1. Clean out the area around the strip rolls and augers.
2. Perform necessary lubrication services. (See pages 13, 14 and 15.) Check for oil leaks.
3. Inspect belts for proper tension and alignment. Be sure there are no loose bolts or cotter pins.
4. Check the operation of all the controls. (See pages 4-5.)

Field Operation

Do not strip wet cotton. Allow the dew to dry before starting to strip in the morning. Wet cotton is difficult to gin, which can result in lower grades.

Watch the quality of cotton being stripped. If you are getting too much dirt and trash, you may be operating the stripping units too close to the ground.

If the cotton stripper is stopped in the row for any reason while harvesting cotton, operate the units until all cotton is cleared away from the brushes and the suction ducts are clean before starting down the row again.

When turning at the end of a row, raise the stripping units to the highest position. Do not stop the units until all the cotton is out of the delivery system.

Watch the stripping job that is being done. Too much cotton may be missed or the stripper may be dropping open bolls. The cotton may be just getting tagged instead of stripped cleanly.

If any of these faults are noticed, stop the stripper, determine cause, and make the necessary adjustments. The trouble shooting chart on pages 16 through 18 is your key to better stripping. It is a quick and easy guide to stripping troubles and their correction.

Dumping the Basket and Green Boll Box

IMPORTANT: When dumping, do not raise basket in less than 10 seconds. (See page 11 for adjustment.)



CAUTION: When dumping, stand clear of stripper and trailer. Never dump the stripper near or under electrical wires.

The stripper basket dumps to the left. Move the basket lift lever to the rear slowly and dump the basket. If the stripper is equipped with a green boll box, it will dump as the basket begins to raise.

After the cotton has been dumped, lower the basket by moving the control lever forward.

The boll box door closes after the basket is down. Be sure it is completely closed before returning lever to neutral position.

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com