

22 and 32 Hay Conditioners



JOHN DEERE

OPERATORS MANUAL

22 and 32 Hay
Conditioners

OME36259 H5 English

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ENGLISH



INTRODUCTION

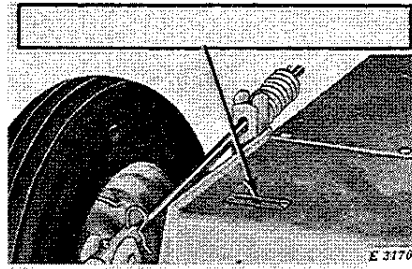
Your new John Deere Hay Conditioner is a dependable machine. With proper care and operation you can expect to receive the service and long life designed and built into it. Like any precision machine your conditioner will require some attention at regular intervals. When any questions arise regarding lubrication and adjustments, etc., use your manual as a guide to service your machine the RIGHT WAY.

If you find yourself in need of additional information or special servicing not covered in this manual, see your John Deere dealer. He is in a position to answer your questions for you.

When in need of parts, either to replace worn parts or to make emergency repairs, see your local John Deere dealer.

When ordering parts give your dealer the model and serial number of your conditioner. This information will help him give you prompt and efficient service.

The serial number of your conditioner is located on the right-hand front edge of the main frame. (Record it in the space below.)



CONTENTS

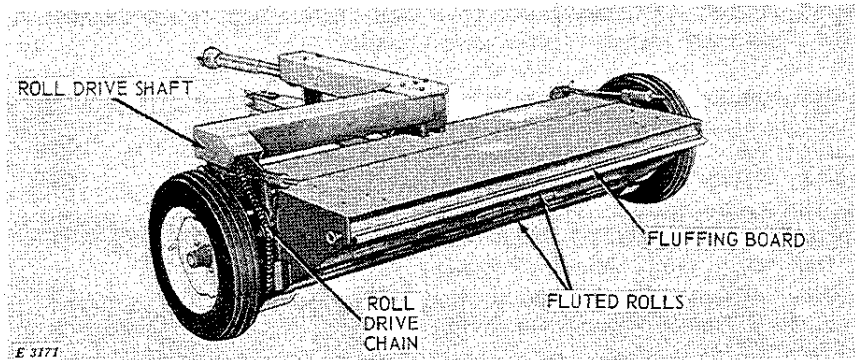
Specifications	1	Service	8-10
Identification Views	1	Timing Rolls	8
Operation	2-5	Drive Chain Keeper and Idler Tension	8
Description	2	Slip Clutch	8
Hookup Instructions	2	Conversion to 540 or 1000 rpm	9
Before Operation	3	Attachments	11
Field Operation	3	Roll Guard Extensions	11
Roll Height	3	Swath Reducer	11
Fluffing Board	4	Remote Hydraulic Cylinder and Adapting Parts	12
Roll Spacing	4	Windrow Shields	13
Roll Pressure	5	Assembly	13
Safety Suggestions	5		
Lubrication	6-7		

NOTE: Right- and left-hand sides referred to in this manual are determined from a position at the rear of the machine facing in the direction of travel.

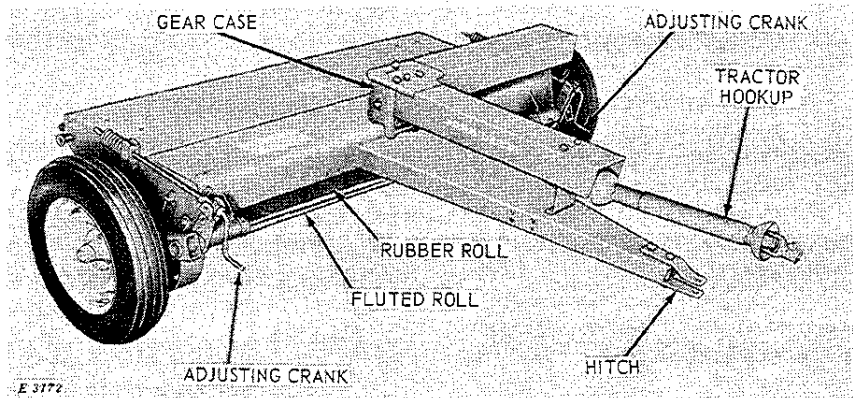
SPECIFICATIONS

Length of rolls	6 ft. 6 in.	Tire size (When shipped with hay conditioners) . . .	5:90 x 15-4 ply
Diameter of rolls: 22	7-3/4 in.	Tire pressure	10 lbs.
32	7 in.	Weight (approx.): 22	1355 lbs.
Roll speed	825 rpm	32	1000 lbs.
Over-all width	8 ft. 9 in.	Bearings:	
Over-all length	7 ft. 2 in.	gear case	4 tapered roller wheels
Over-all height	3 ft. 1 in.	rolls	4 tapered roller
Wheels	Standard drop center type 14 or 15 in. rims	driveshaft	1 self-aligning bronze
		driveshaft	1 self-aligning ball

(Specifications and design subject to change without notice.)



Left-Hand View of John Deere 22 Crimper Hay Conditioner



Right-Hand View of John Deere 32 Crusher Hay Conditioner

OPERATION

DESCRIPTION

The 22 Crimper Hay Conditioner and 32 Crusher Hay Conditioner pick up cut hay from the ground and pass it between the surfaces of two rolls. The rolls are designed to effectively condition the heavier stems and stalks, at the same time providing ample space for tender leaves and small stems to pass through the rolls without damage.

The crimping or crushing of the stems permits the moisture to escape from the stems at the same rate as from the leaves, providing a fast, uniform curing of the crop.

Under some conditions the reaction of the crop to the hay conditioner will not show up immediately, but within an hour or two, the moisture will begin to work out of the crop. This should be kept in mind when operating so unnecessary adjustments will not be made prematurely.

Hay should be conditioned before it starts to wilt—usually within 20 minutes after it has been mowed.

HOOKUP INSTRUCTION

The conditioner can be attached to any tractor having a drawbar and power take-off that conforms to ASAE-SAE standards and having a PTO speed (540 or 1000 rpm) to match the powershaft speed of the conditioner.

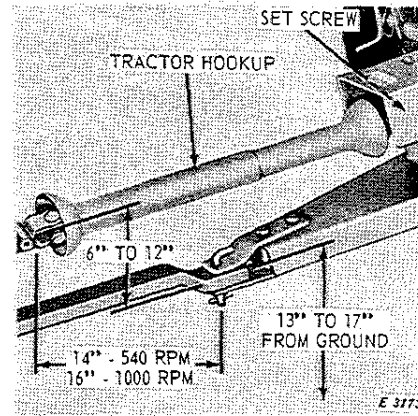
The tractor tire inflation pressures specified in the tractor operator's manual will apply.



CAUTION: Never hook up a 540 rpm conditioner to a 1000 rpm tractor.

TRACTOR DRAWBAR

Adjust tractor drawbar so it measures 14 inches (for 540 rpm PTO) or 16 inches (for 1000 rpm PTO) from end of PTO shaft to hitch pin hole in drawbar, and 6 to 12 inches from center of the PTO shaft to the top of drawbar. The top of the rear end of the drawbar should be 13 to 17 inches from the ground. The drawbar hitch pin hole must be aligned vertically with the center line of the tractor PTO shaft.



UNIVERSAL JOINTS

Attach the rear end of the conditioner universal joint to the powershaft and secure it with the clamp bolt. Attach the front end of the universal joint to the tractor powershaft and secure it with the spring locking pin.

NOTE: Never use a steel hammer when attaching or removing universal joints. Keep the universal joint splines clean.

BEFORE OPERATION

Do not start tractor until hay conditioner has been carefully checked for correct assembly. See that all nuts are tight and cotter pins spread.

Check tires for proper operating pressure of 10 pounds.

Be sure all moving parts work freely and are properly lubricated. Check to see that the powershaft telescopes freely.

Start tractor engine and while idling, slowly engage PTO. Let hay conditioner run slowly for a while and observe all moving parts to see that they operate freely and normally.



CAUTION: Never adjust machine while it is operating.

Check tractor levers and controls to see that they operate the hay conditioner properly.

FIELD OPERATION

Operate tractor engine to obtain the SAE rated PTO speed. Running the engine at slow speed reduces the roll speed and may cause the hay conditioner to clog where crop is heavy. Where difficult conditions make it necessary to slow down the travel speed of tractor, shift to a lower gear rather than reduce the engine speed. By shifting to a lower gear, the engine will maintain its rated speed, which will keep the rolls running at the proper speed for best results.

Do not engage PTO with engine running at high speed. To do so may cause undue wear or possible breakage.

Direction of travel should be the same as the mower.

IMPORTANT: Do not use the guards under the right-hand and left-hand ends of the hay conditioner as runner shoes.

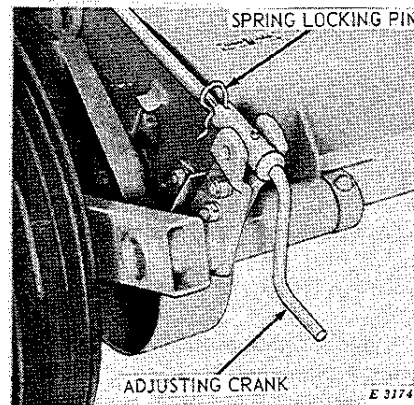
ROLL HEIGHT

Rolls should be set as high as possible (4 to 7 inches) but low enough so they will still pick up all the crop.

Operate rolls higher in heavy crops than in light scattered crops. Low roll height is one of the primary causes of material wrapping on rolls.

Raise the rolls when transporting.

ADJUSTING HEIGHT



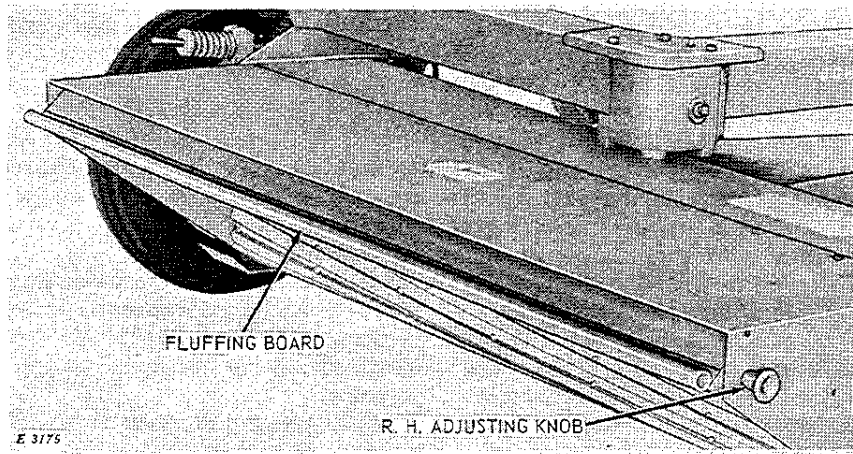
Two cranks control the roll height. Remove the spring locking pins on each end of the crank to be adjusted so they do not interfere with rotating crank.

Turn crank counterclockwise to raise rolls, or clockwise to lower rolls. Replace the spring locking pins.

The hand cranks serve as lower limit stops on hydraulic lift. During operation the cylinder should always be contracted so the weight of the machine will be carried by the hand cranks.

4 Operation

FLUFFING BOARD



The hinged fluffing board can be adjusted to deflect the hay downward in fluffier, faster-curing swaths.

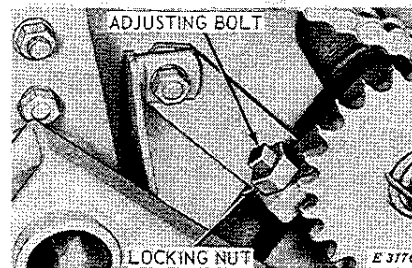
Use the two adjusting knobs and adjust the fluffing board downward until desired fluffing results without bunching. In heavy, rank crops, the fluffing board should be adjusted upward to prevent back feeding.

ROLL SPACING

When crimper rolls are too aggressive on tender crops, decrease roll mesh by turning the adjusting bolt on each side an equal number of turns. Tough crops may require increasing mesh.

NOTE: On 32 Hay Conditioners only, the roll spacing should normally be 1/64- to 1/32-inch clearance between the rolls. This clearance will permit the stems to be crushed without damaging the leaves.

ADJUSTING SPACING



Loosen locking nuts and turn adjusting bolts on both sides an equal number of turns to maintain uniform spacing. Tighten locking nut.

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